

# **Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments**

## **Appendix Q — Minimum and Maximum Plots for 0-DOF Motion of Model 5613 in Waves**

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- Q-81. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-473

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- Q-82. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-478
- Q-83. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-483
- Q-84. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-487
- Q-85. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-491
- Q-86. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-495
- Q-87. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-499
- Q-88. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-503
- Q-89. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-507
- Q-90. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-511
- Q-91. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-515
- Q-92. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-519
- Q-93. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-523
- Q-94. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-527
- Q-95. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m. . . . . Q-531



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Q-96.	Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-535
Q-97.	Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-539
Q-98.	Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-543
Q-99.	Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-547
Q-100.	Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-551
Q-101.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-555
Q-102.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-560
Q-103.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-565
Q-104.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-570
Q-105.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-575
Q-106.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-580
Q-107.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-585
Q-108.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-590
Q-109.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-595

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Q-110.	Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-600
Q-111.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-605
Q-112.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-610
Q-113.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-615
Q-114.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-620
Q-115.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-624
Q-116.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-628
Q-117.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-633
Q-118.	Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-637
Q-119.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-641
Q-120.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-645
Q-121.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-650
Q-122.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-654
Q-123.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-658

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Q-124.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-662
Q-125.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-666
Q-126.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-670
Q-127.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-674
Q-128.	Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-678
Q-129.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-682
Q-130.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-687
Q-131.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-692
Q-132.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-697
Q-133.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-702
Q-134.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-707
Q-135.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-712
Q-136.	Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-717
Q-137.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-722

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Q-138.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-727
Q-139.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-732
Q-140.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-737
Q-141.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-742
Q-142.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-747
Q-143.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-752
Q-144.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-757
Q-145.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-762
Q-146.	Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-767
Q-147.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-772
Q-148.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-776
Q-149.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-780
Q-150.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-784
Q-151.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-788

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Q-152.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-792
Q-153.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-796
Q-154.	Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-800
Q-155.	Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 0^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-804
Q-156.	Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 45^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-809
Q-157.	Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 90^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-814
Q-158.	Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 135^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-819
Q-159.	Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. $(H/\lambda)$ for $\beta = 180^\circ$ , $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. . . . .	Q-824
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Q-110.	Minimum and Maximum of Variables $F_x^{\text{ptot}}$ and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-168
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Q-297.	Minimum and Maximum of Variables $F_z^{\text{ptot}}$ and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-273
Q-298.	Minimum and Maximum of Variables $F_z^{\text{ptot}}$ and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-273
Q-299.	Minimum and Maximum of Variables $F_z^{\text{ptot}}$ and $(F_z^{\text{ptot}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-273

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Q-300.	Minimum and Maximum of Variables $F_z^{\text{ptot}}$ and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-274
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Q-303.	Minimum and Maximum of Variables $F_z^{\text{ptot}}$ and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-275
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Q-305.	Minimum and Maximum of Variables $M_x^{\text{ptot}}$ and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-277
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Q-433.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-355
Q-434.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-355
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Q-439.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-358
Q-440.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-358
Q-441.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-360
Q-442.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-360
Q-443.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-361
Q-444.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-361
Q-445.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-362
Q-446.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-362
Q-447.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-363
Q-448.	Minimum and Maximum of Variables $M_y^{ptot}$ and $(M_y^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-363
Q-449.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-365
Q-450.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-365
Q-451.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-366

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Q-452.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-366
Q-453.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-367
Q-454.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-367
Q-455.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-368
Q-456.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-368
Q-457.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-370
Q-458.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-370
Q-459.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-371
Q-460.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-371
Q-461.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-372
Q-462.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-372
Q-463.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-373
Q-464.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-373
Q-465.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-375
Q-466.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-375
Q-467.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-376
Q-468.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-376
Q-469.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-377
Q-470.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-377

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Q-471.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-378
Q-472.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-378
Q-473.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-380
Q-474.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-380
Q-475.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-380
Q-476.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-381
Q-477.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-381
Q-478.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-381
Q-479.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-382
Q-480.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-382
Q-481.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-384
Q-482.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-384
Q-483.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-385
Q-484.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-385
Q-485.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-386
Q-486.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-386
Q-487.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-387
Q-488.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-387
Q-489.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-389

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Q-490.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-389
Q-491.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-390
Q-492.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-390
Q-493.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-391
Q-494.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-391
Q-495.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-392
Q-496.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-392
Q-497.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-394
Q-498.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-394
Q-499.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-395
Q-500.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-395
Q-501.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-396
Q-502.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-396
Q-503.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-397
Q-504.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-397
Q-505.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-399
Q-506.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-399
Q-507.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-399
Q-508.	Minimum and Maximum of Variables $M_z^{ptot}$ and $(M_z^{ptot})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-400

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Q-509.	Minimum and Maximum of Variables $M_z^{\text{ptot}}$ and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-400
Q-510.	Minimum and Maximum of Variables $M_z^{\text{ptot}}$ and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-400
Q-511.	Minimum and Maximum of Variables $M_z^{\text{ptot}}$ and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-401
Q-512.	Minimum and Maximum of Variables $M_z^{\text{ptot}}$ and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-401
Q-513.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-403
Q-514.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-403
Q-515.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-403
Q-516.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-404
Q-517.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-404
Q-518.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-404
Q-519.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-405
Q-520.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-405
Q-521.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-407
Q-522.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-407
Q-523.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-408
Q-524.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-408
Q-525.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-409
Q-526.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-409
Q-527.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-409

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Q-528.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-410
Q-529.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-412
Q-530.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-412
Q-531.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-412
Q-532.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-413
Q-533.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-413
Q-534.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-413
Q-535.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-414
Q-536.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-414
Q-537.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-416
Q-538.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-416
Q-539.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-416
Q-540.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-417
Q-541.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-417
Q-542.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-417
Q-543.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-418
Q-544.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-418
Q-545.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-420
Q-546.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-420

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Q-547.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-420
Q-548.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-421
Q-549.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-421
Q-550.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-421
Q-551.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-422
Q-552.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-422
Q-553.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-424
Q-554.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-424
Q-555.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-424
Q-556.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-425
Q-557.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-425
Q-558.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-425
Q-559.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-426
Q-560.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-426
Q-561.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-428
Q-562.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-428
Q-563.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-428
Q-564.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-429
Q-565.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-429

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Q-566.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-429
Q-567.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-430
Q-568.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-430
Q-569.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-432
Q-570.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-432
Q-571.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-432
Q-572.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-433
Q-573.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-433
Q-574.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-433
Q-575.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-434
Q-576.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-434
Q-577.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-436
Q-578.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-436
Q-579.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-436
Q-580.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-437
Q-581.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-437
Q-582.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-437
Q-583.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-438
Q-584.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-438



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Q-585.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-440
Q-586.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-440
Q-587.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-440
Q-588.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-441
Q-589.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-441
Q-590.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-441
Q-591.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-442
Q-592.	Minimum and Maximum of Variables $F_x^{\text{hst}}$ and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-442
Q-593.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-444
Q-594.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-444
Q-595.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-445
Q-596.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-445
Q-597.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-446
Q-598.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-446
Q-599.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-447
Q-600.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-447
Q-601.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-449
Q-602.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-449
Q-603.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-450

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Q-604.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-450
Q-605.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-451
Q-606.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-451
Q-607.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-452
Q-608.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-452
Q-609.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-454
Q-610.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-454
Q-611.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-455
Q-612.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-455
Q-613.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-456
Q-614.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-456
Q-615.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-457
Q-616.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . .	Q-457
Q-617.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-459
Q-618.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-459
Q-619.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-460
Q-620.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-460
Q-621.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-461
Q-622.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . .	Q-461

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Q-623.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-462
Q-624.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-462
Q-625.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-464
Q-626.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-464
Q-627.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-465
Q-628.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-465
Q-629.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-466
Q-630.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-466
Q-631.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-467
Q-632.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-467
Q-633.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-469
Q-634.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-469
Q-635.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-470
Q-636.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-470
Q-637.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-471
Q-638.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-471
Q-639.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-472
Q-640.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-472
Q-641.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-474

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Q-642.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-474
Q-643.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-475
Q-644.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-475
Q-645.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-476
Q-646.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-476
Q-647.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-477
Q-648.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-477
Q-649.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-479
Q-650.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-479
Q-651.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-480
Q-652.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-480
Q-653.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-481
Q-654.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-481
Q-655.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-482
Q-656.	Minimum and Maximum of Variables $F_y^{\text{hst}}$ and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-482
Q-657.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-484
Q-658.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-484
Q-659.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-484
Q-660.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-485

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Q-661.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-485
Q-662.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-485
Q-663.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-486
Q-664.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-486
Q-665.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-488
Q-666.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-488
Q-667.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-488
Q-668.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-489
Q-669.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-489
Q-670.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-489
Q-671.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-490
Q-672.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-490
Q-673.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-492
Q-674.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-492
Q-675.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-493
Q-676.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-493
Q-677.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-493
Q-678.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-494
Q-679.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-494

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Q-680.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . .	Q-494
Q-681.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-496
Q-682.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-496
Q-683.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-496
Q-684.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-497
Q-685.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-497
Q-686.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-497
Q-687.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-498
Q-688.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . .	Q-498
Q-689.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-500
Q-690.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-500
Q-691.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . . . .	Q-500
Q-692.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-501
Q-693.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-501
Q-694.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-501
Q-695.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-502
Q-696.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ ) . . .	Q-502
Q-697.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . .	Q-504
Q-698.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . .	Q-504

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Q-699.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . . . . .	Q-504
Q-700.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-505
Q-701.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-505
Q-702.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-505
Q-703.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-506
Q-704.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-506
Q-705.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-508
Q-706.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-508
Q-707.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-508
Q-708.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-509
Q-709.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-509
Q-710.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-509
Q-711.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-510
Q-712.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-510
Q-713.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-512
Q-714.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-512
Q-715.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-513
Q-716.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-513
Q-717.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-513

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Q-718.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-514
Q-719.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-514
Q-720.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-514
Q-721.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-516
Q-722.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-516
Q-723.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-516
Q-724.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-517
Q-725.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-517
Q-726.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-517
Q-727.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-518
Q-728.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-518
Q-729.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-520
Q-730.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-520
Q-731.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-520
Q-732.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-521
Q-733.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-521
Q-734.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-521
Q-735.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-522
Q-736.	Minimum and Maximum of Variables $F_z^{\text{hst}}$ and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-522



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Q-737.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-524
Q-738.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-524
Q-739.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-524
Q-740.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-525
Q-741.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-525
Q-742.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-525
Q-743.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-526
Q-744.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-526
Q-745.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-528
Q-746.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-528
Q-747.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-528
Q-748.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-529
Q-749.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-529
Q-750.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-529
Q-751.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-530
Q-752.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-530
Q-753.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-532
Q-754.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-532
Q-755.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-532

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Q-756.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-533
Q-757.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-533
Q-758.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-533
Q-759.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-534
Q-760.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-534
Q-761.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-536
Q-762.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-536
Q-763.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-537
Q-764.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-537
Q-765.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-537
Q-766.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-538
Q-767.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-538
Q-768.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-538
Q-769.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-540
Q-770.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-540
Q-771.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-540
Q-772.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-541
Q-773.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-541
Q-774.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-541

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Q-775.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-542
Q-776.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-542
Q-777.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-544
Q-778.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-544
Q-779.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-544
Q-780.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-545
Q-781.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-545
Q-782.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-545
Q-783.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-546
Q-784.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-546
Q-785.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-548
Q-786.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-548
Q-787.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-548
Q-788.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-549
Q-789.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-549
Q-790.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-549
Q-791.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-550
Q-792.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-550
Q-793.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-552

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Q-794.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-552
Q-795.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-552
Q-796.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-553
Q-797.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-553
Q-798.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-553
Q-799.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-554
Q-800.	Minimum and Maximum of Variables $M_x^{\text{hst}}$ and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-554
Q-801.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-556
Q-802.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-556
Q-803.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-557
Q-804.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-557
Q-805.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-558
Q-806.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-558
Q-807.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-559
Q-808.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-559
Q-809.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-561
Q-810.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-561
Q-811.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-562
Q-812.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-562

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Q-813.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-563
Q-814.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-563
Q-815.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-564
Q-816.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-564
Q-817.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-566
Q-818.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-566
Q-819.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-567
Q-820.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-567
Q-821.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-568
Q-822.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-568
Q-823.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-569
Q-824.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-569
Q-825.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-571
Q-826.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-571
Q-827.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-572
Q-828.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-572
Q-829.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-573
Q-830.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-573
Q-831.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-574

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- Q-832. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-574
- Q-833. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-576
- Q-834. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-576
- Q-835. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-577
- Q-836. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-577
- Q-837. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-578
- Q-838. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-578
- Q-839. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-579
- Q-840. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-579
- Q-841. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-581
- Q-842. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-581
- Q-843. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-582
- Q-844. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-582
- Q-845. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-583
- Q-846. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-583
- Q-847. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-584
- Q-848. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-584
- Q-849. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-586
- Q-850. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-586

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Q-851.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-587
Q-852.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-587
Q-853.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-588
Q-854.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-588
Q-855.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-589
Q-856.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-589
Q-857.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-591
Q-858.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-591
Q-859.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-592
Q-860.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-592
Q-861.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-593
Q-862.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-593
Q-863.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-594
Q-864.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-594
Q-865.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-596
Q-866.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-596
Q-867.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-597
Q-868.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-597
Q-869.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-598

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Q-870.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-598
Q-871.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-599
Q-872.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-599
Q-873.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-601
Q-874.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-601
Q-875.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-602
Q-876.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-602
Q-877.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-603
Q-878.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-603
Q-879.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-604
Q-880.	Minimum and Maximum of Variables $M_y^{\text{hst}}$ and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-604
Q-881.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-606
Q-882.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-606
Q-883.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-607
Q-884.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-607
Q-885.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-608
Q-886.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-608
Q-887.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-608
Q-888.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-609



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Q-889.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-611
Q-890.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-611
Q-891.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-612
Q-892.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-612
Q-893.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-613
Q-894.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-613
Q-895.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-614
Q-896.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-614
Q-897.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-616
Q-898.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-616
Q-899.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-617
Q-900.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-617
Q-901.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-618
Q-902.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-618
Q-903.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-618
Q-904.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-619
Q-905.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-621
Q-906.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-621
Q-907.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-622

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Q-908.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-622
Q-909.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-622
Q-910.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-623
Q-911.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-623
Q-912.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-623
Q-913.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-625
Q-914.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-625
Q-915.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-626
Q-916.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-626
Q-917.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-626
Q-918.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-627
Q-919.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-627
Q-920.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-627
Q-921.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-629
Q-922.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-629
Q-923.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-630
Q-924.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-630
Q-925.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-631
Q-926.	Minimum and Maximum of Variables $M_z^{\text{hst}}$ and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-631

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- Q-927. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . Q-632
- Q-928. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . Q-632
- Q-929. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-634
- Q-930. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-634
- Q-931. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-635
- Q-932. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-635
- Q-933. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-635
- Q-934. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-636
- Q-935. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . Q-636
- Q-936. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . Q-636
- Q-937. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-638
- Q-938. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-638
- Q-939. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-639
- Q-940. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-639
- Q-941. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-639
- Q-942. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-640
- Q-943. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . . Q-640
- Q-944. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . . Q-640
- Q-945. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . . Q-642

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- Q-946. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-642
- Q-947. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-642
- Q-948. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-643
- Q-949. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-643
- Q-950. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-643
- Q-951. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . . . Q-644
- Q-952. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-644
- Q-953. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-646
- Q-954. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-646
- Q-955. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-647
- Q-956. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-647
- Q-957. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-648
- Q-958. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-648
- Q-959. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . . . Q-648
- Q-960. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-649
- Q-961. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-651
- Q-962. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-651
- Q-963. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-651
- Q-964. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-652
- Q-965. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-652

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- Q-966. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . . Q-652
- Q-967. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . . . Q-653
- Q-968. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . . Q-653
- Q-969. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-655
- Q-970. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-655
- Q-971. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-655
- Q-972. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-656
- Q-973. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-656
- Q-974. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-656
- Q-975. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . . Q-657
- Q-976. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . Q-657
- Q-977. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-659
- Q-978. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-659
- Q-979. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-659
- Q-980. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-660
- Q-981. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-660
- Q-982. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-660
- Q-983. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . Q-661
- Q-984. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-661
- Q-985. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-663

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- Q-986. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-663
- Q-987. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-664
- Q-988. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-664
- Q-989. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-664
- Q-990. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-665
- Q-991. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . . Q-665
- Q-992. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-665
- Q-993. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-667
- Q-994. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-667
- Q-995. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-667
- Q-996. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-668
- Q-997. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-668
- Q-998. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-668
- Q-999. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . . Q-669
- Q-1000. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-669
- Q-1001. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-671
- Q-1002. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-671
- Q-1003. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-671
- Q-1004. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-672
- Q-1005. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-672

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Q-1006.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-672
Q-1007.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . .	Q-673
Q-1008.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-673
Q-1009.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-675
Q-1010.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-675
Q-1011.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-675
Q-1012.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-676
Q-1013.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-676
Q-1014.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-677
Q-1015.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . .	Q-677
Q-1016.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-677
Q-1017.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-679
Q-1018.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-679
Q-1019.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-679
Q-1020.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-680
Q-1021.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-680
Q-1022.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-680
Q-1023.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . .	Q-681
Q-1024.	Minimum and Maximum of Variables $F_x^{\text{fk}}$ and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-681
Q-1025.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-683

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Q-1026.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-683
Q-1027.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-684
Q-1028.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-684
Q-1029.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-685
Q-1030.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-685
Q-1031.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . .	Q-686
Q-1032.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-686
Q-1033.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-688
Q-1034.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-688
Q-1035.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-689
Q-1036.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-689
Q-1037.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-690
Q-1038.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-690
Q-1039.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . .	Q-691
Q-1040.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-691
Q-1041.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-693
Q-1042.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-693
Q-1043.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-694
Q-1044.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-694
Q-1045.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-695



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Q-1046.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-695
Q-1047.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-696
Q-1048.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-696
Q-1049.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-698
Q-1050.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-698
Q-1051.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-699
Q-1052.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-699
Q-1053.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-700
Q-1054.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-700
Q-1055.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-701
Q-1056.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-701
Q-1057.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-703
Q-1058.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-703
Q-1059.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-704
Q-1060.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-704
Q-1061.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-705
Q-1062.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-705
Q-1063.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-706
Q-1064.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-706
Q-1065.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-708

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- Q-1066. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-708
- Q-1067. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-709
- Q-1068. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-709
- Q-1069. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-710
- Q-1070. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-710
- Q-1071. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . . Q-711
- Q-1072. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-711
- Q-1073. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-713
- Q-1074. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-713
- Q-1075. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-714
- Q-1076. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-714
- Q-1077. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-715
- Q-1078. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-715
- Q-1079. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . . Q-716
- Q-1080. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-716
- Q-1081. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-718
- Q-1082. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-718
- Q-1083. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-719
- Q-1084. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-719
- Q-1085. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-720

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Q-1086.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-720
Q-1087.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-721
Q-1088.	Minimum and Maximum of Variables $F_y^{\text{fk}}$ and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-721
Q-1089.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-723
Q-1090.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-723
Q-1091.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-724
Q-1092.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-724
Q-1093.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-725
Q-1094.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-725
Q-1095.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-726
Q-1096.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . . . . .	Q-726
Q-1097.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-728
Q-1098.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-728
Q-1099.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-729
Q-1100.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-729
Q-1101.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-730
Q-1102.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-730
Q-1103.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-731
Q-1104.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-731
Q-1105.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-733

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- Q-1106. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-733
- Q-1107. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-734
- Q-1108. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-734
- Q-1109. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-735
- Q-1110. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-735
- Q-1111. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . . . Q-736
- Q-1112. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-736
- Q-1113. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-738
- Q-1114. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-738
- Q-1115. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-739
- Q-1116. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-739
- Q-1117. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-740
- Q-1118. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-740
- Q-1119. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . . Q-741
- Q-1120. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-741
- Q-1121. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-743
- Q-1122. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-743
- Q-1123. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-744
- Q-1124. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-744
- Q-1125. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-745

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Q-1126.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-745
Q-1127.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-746
Q-1128.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-746
Q-1129.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-748
Q-1130.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-748
Q-1131.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-749
Q-1132.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-749
Q-1133.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-750
Q-1134.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-750
Q-1135.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-751
Q-1136.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-751
Q-1137.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-753
Q-1138.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-753
Q-1139.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-754
Q-1140.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-754
Q-1141.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-755
Q-1142.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-755
Q-1143.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-756
Q-1144.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-756
Q-1145.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-758

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- Q-1146. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-758
- Q-1147. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-759
- Q-1148. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-759
- Q-1149. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-760
- Q-1150. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-760
- Q-1151. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . . Q-761
- Q-1152. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-761
- Q-1153. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-763
- Q-1154. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-763
- Q-1155. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-764
- Q-1156. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-764
- Q-1157. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-765
- Q-1158. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-765
- Q-1159. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . . Q-766
- Q-1160. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-766
- Q-1161. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-768
- Q-1162. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-768
- Q-1163. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-769
- Q-1164. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-769
- Q-1165. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-770

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Q-1166.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-770
Q-1167.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . .	Q-771
Q-1168.	Minimum and Maximum of Variables $F_z^{\text{fk}}$ and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-771
Q-1169.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-773
Q-1170.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-773
Q-1171.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-774
Q-1172.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-774
Q-1173.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-774
Q-1174.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-775
Q-1175.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-775
Q-1176.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-775
Q-1177.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-777
Q-1178.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-777
Q-1179.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-777
Q-1180.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-778
Q-1181.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-778
Q-1182.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-778
Q-1183.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-779
Q-1184.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-779

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- Q-1185. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-781
- Q-1186. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-781
- Q-1187. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-781
- Q-1188. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-782
- Q-1189. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-782
- Q-1190. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-782
- Q-1191. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-783
- Q-1192. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-783
- Q-1193. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-785
- Q-1194. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-785
- Q-1195. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-786
- Q-1196. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-786
- Q-1197. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-786
- Q-1198. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-787
- Q-1199. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-787
- Q-1200. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-787
- Q-1201. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-789
- Q-1202. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-789
- Q-1203. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-790



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Q-1204.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-790
Q-1205.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-790
Q-1206.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-791
Q-1207.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-791
Q-1208.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-791
Q-1209.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-793
Q-1210.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-793
Q-1211.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-793
Q-1212.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-794
Q-1213.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-794
Q-1214.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-794
Q-1215.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-795
Q-1216.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-795
Q-1217.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-797
Q-1218.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-797
Q-1219.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-797
Q-1220.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-798
Q-1221.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-798
Q-1222.	Minimum and Maximum of Variables $M_x^{\text{fk}}$ and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-798

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Q-1223.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-799
Q-1224.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-799
Q-1225.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-801
Q-1226.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-801
Q-1227.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-802
Q-1228.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-802
Q-1229.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-802
Q-1230.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-803
Q-1231.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-803
Q-1232.	Minimum and Maximum of Variables $M_x^{fk}$ and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-803
Q-1233.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-805
Q-1234.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-805
Q-1235.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-806
Q-1236.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-806
Q-1237.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-807
Q-1238.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-807
Q-1239.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-808
Q-1240.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ )	Q-808
Q-1241.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-810

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Q-1242.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-810
Q-1243.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-811
Q-1244.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-811
Q-1245.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-812
Q-1246.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-812
Q-1247.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-813
Q-1248.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-813
Q-1249.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-815
Q-1250.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-815
Q-1251.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-816
Q-1252.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-816
Q-1253.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-817
Q-1254.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-817
Q-1255.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-818
Q-1256.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-818
Q-1257.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-820
Q-1258.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-820
Q-1259.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-821
Q-1260.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-821

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Q-1261.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-822
Q-1262.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-822
Q-1263.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-823
Q-1264.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-823
Q-1265.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-825
Q-1266.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-825
Q-1267.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-826
Q-1268.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-826
Q-1269.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-827
Q-1270.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-827
Q-1271.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-828
Q-1272.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-828
Q-1273.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-830
Q-1274.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-830
Q-1275.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-831
Q-1276.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-831
Q-1277.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-832
Q-1278.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-832
Q-1279.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$ , $F_n = 0.3$ )	Q-833

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Q-1280.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.3$ ) . .	Q-833
Q-1281.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-835
Q-1282.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-835
Q-1283.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . . . . .	Q-836
Q-1284.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-836
Q-1285.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-837
Q-1286.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-837
Q-1287.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-838
Q-1288.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ ) . .	Q-838
Q-1289.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-840
Q-1290.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-840
Q-1291.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . . . . .	Q-841
Q-1292.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-841
Q-1293.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-842
Q-1294.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-842
Q-1295.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-843
Q-1296.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-843
Q-1297.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . .	Q-845
Q-1298.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . .	Q-845

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Q-1299.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-846
Q-1300.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-846
Q-1301.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-847
Q-1302.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-847
Q-1303.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-848
Q-1304.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-848
Q-1305.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-850
Q-1306.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-850
Q-1307.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-851
Q-1308.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-851
Q-1309.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-852
Q-1310.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-852
Q-1311.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-853
Q-1312.	Minimum and Maximum of Variables $M_y^{fk}$ and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-853
Q-1313.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-855
Q-1314.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-855
Q-1315.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-856
Q-1316.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-856
Q-1317.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-857

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Q-1318.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-857
Q-1319.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-857
Q-1320.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-858
Q-1321.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-860
Q-1322.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-860
Q-1323.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-861
Q-1324.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-861
Q-1325.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-862
Q-1326.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-862
Q-1327.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-863
Q-1328.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-863
Q-1329.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-865
Q-1330.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-865
Q-1331.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-866
Q-1332.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-866
Q-1333.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-867
Q-1334.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-867
Q-1335.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-867
Q-1336.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ ) .	Q-868

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Q-1337.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-870
Q-1338.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-870
Q-1339.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-871
Q-1340.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-871
Q-1341.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-871
Q-1342.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-872
Q-1343.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-872
Q-1344.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.0$ )	Q-872
Q-1345.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-874
Q-1346.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-874
Q-1347.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-875
Q-1348.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-875
Q-1349.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-876
Q-1350.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-876
Q-1351.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-876
Q-1352.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-877
Q-1353.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-879
Q-1354.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-879
Q-1355.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-880



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Q-1356.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-880
Q-1357.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-881
Q-1358.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-881
Q-1359.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-882
Q-1360.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ ) . .	Q-882
Q-1361.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-884
Q-1362.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-884
Q-1363.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) . . . . .	Q-885
Q-1364.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-885
Q-1365.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-886
Q-1366.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-886
Q-1367.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-886
Q-1368.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ ) .	Q-887
Q-1369.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-889
Q-1370.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-889
Q-1371.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) . . . . .	Q-890
Q-1372.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-890
Q-1373.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-890
Q-1374.	Minimum and Maximum of Variables $M_z^{fk}$ and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ ) .	Q-891

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- Q-1375. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-891
- Q-1376. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-891
- Q-1377. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-893
- Q-1378. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-893
- Q-1379. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-893
- Q-1380. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-894
- Q-1381. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-894
- Q-1382. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-895
- Q-1383. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-895
- Q-1384. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-896
- Q-1385. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-898
- Q-1386. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-898
- Q-1387. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-898
- Q-1388. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-899
- Q-1389. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-899
- Q-1390. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-900
- Q-1391. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-900
- Q-1392. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-901
- Q-1393. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-903
- Q-1394. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-903

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- Q-1395. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-903
- Q-1396. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-904
- Q-1397. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-904
- Q-1398. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-904
- Q-1399. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-905
- Q-1400. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-905
- Q-1401. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-907
- Q-1402. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-907
- Q-1403. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-907
- Q-1404. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-908
- Q-1405. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-908
- Q-1406. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-908
- Q-1407. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-909
- Q-1408. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-909
- Q-1409. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-911
- Q-1410. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-911
- Q-1411. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-911
- Q-1412. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-912
- Q-1413. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-912
- Q-1414. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-912

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- Q-1415. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-913
- Q-1416. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . Q-913
- Q-1417. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-915
- Q-1418. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-915
- Q-1419. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-915
- Q-1420. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-916
- Q-1421. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-916
- Q-1422. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-917
- Q-1423. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-917
- Q-1424. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . Q-918
- Q-1425. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-920
- Q-1426. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-920
- Q-1427. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-920
- Q-1428. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-921
- Q-1429. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-921
- Q-1430. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-922
- Q-1431. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-922
- Q-1432. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . Q-923
- Q-1433. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . Q-925
- Q-1434. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . Q-925

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- Q-1435. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-926
- Q-1436. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-926
- Q-1437. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-926
- Q-1438. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-927
- Q-1439. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-927
- Q-1440. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-927
- Q-1441. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-929
- Q-1442. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-929
- Q-1443. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-929
- Q-1444. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-930
- Q-1445. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-930
- Q-1446. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-931
- Q-1447. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-931
- Q-1448. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-932
- Q-1449. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-934
- Q-1450. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-934
- Q-1451. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-934
- Q-1452. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-935
- Q-1453. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-935
- Q-1454. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-935

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- Q-1455. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-936
- Q-1456. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-936
- Q-1457. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-938
- Q-1458. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-938
- Q-1459. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-939
- Q-1460. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-939
- Q-1461. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-940
- Q-1462. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-940
- Q-1463. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-941
- Q-1464. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-941
- Q-1465. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-943
- Q-1466. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-943
- Q-1467. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-944
- Q-1468. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-944
- Q-1469. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-945
- Q-1470. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-945
- Q-1471. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-946
- Q-1472. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-946
- Q-1473. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-948
- Q-1474. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-948

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- Q-1475. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-949
- Q-1476. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-949
- Q-1477. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-950
- Q-1478. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-950
- Q-1479. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-951
- Q-1480. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-951
- Q-1481. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-953
- Q-1482. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-953
- Q-1483. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-954
- Q-1484. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-954
- Q-1485. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-955
- Q-1486. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-955
- Q-1487. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-956
- Q-1488. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-956
- Q-1489. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-958
- Q-1490. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-958
- Q-1491. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-959
- Q-1492. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-959
- Q-1493. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-960
- Q-1494. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-960

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- Q-1495. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-961
- Q-1496. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-961
- Q-1497. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-963
- Q-1498. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-963
- Q-1499. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-964
- Q-1500. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-964
- Q-1501. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-965
- Q-1502. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-965
- Q-1503. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-966
- Q-1504. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-966
- Q-1505. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-968
- Q-1506. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-968
- Q-1507. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-969
- Q-1508. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-969
- Q-1509. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-970
- Q-1510. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-970
- Q-1511. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-971
- Q-1512. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . Q-971
- Q-1513. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-973
- Q-1514. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . Q-973



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- Q-1515. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-974
- Q-1516. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-974
- Q-1517. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-975
- Q-1518. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-975
- Q-1519. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-976
- Q-1520. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-976
- Q-1521. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-978
- Q-1522. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-978
- Q-1523. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-978
- Q-1524. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-979
- Q-1525. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-979
- Q-1526. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-980
- Q-1527. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-980
- Q-1528. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . Q-981
- Q-1529. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-983
- Q-1530. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-983
- Q-1531. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-983
- Q-1532. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-984
- Q-1533. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-984
- Q-1534. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-985

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- Q-1535. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-985
- Q-1536. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-986
- Q-1537. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-988
- Q-1538. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-988
- Q-1539. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-988
- Q-1540. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-989
- Q-1541. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-989
- Q-1542. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-990
- Q-1543. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-990
- Q-1544. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-991
- Q-1545. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-993
- Q-1546. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-993
- Q-1547. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-993
- Q-1548. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-994
- Q-1549. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-994
- Q-1550. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-995
- Q-1551. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-995
- Q-1552. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . Q-996
- Q-1553. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-998
- Q-1554. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-998

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- Q-1555. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-998
- Q-1556. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-999
- Q-1557. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-999
- Q-1558. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-1000
- Q-1559. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-1000
- Q-1560. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . Q-1001
- Q-1561. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1003
- Q-1562. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1003
- Q-1563. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1004
- Q-1564. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1004
- Q-1565. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1005
- Q-1566. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1005
- Q-1567. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1006
- Q-1568. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1006
- Q-1569. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1008
- Q-1570. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1008
- Q-1571. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1008
- Q-1572. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1009
- Q-1573. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1009
- Q-1574. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1010

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- Q-1575. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1010
- Q-1576. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1011
- Q-1577. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1013
- Q-1578. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1013
- Q-1579. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1013
- Q-1580. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1014
- Q-1581. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1014
- Q-1582. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1015
- Q-1583. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1015
- Q-1584. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1016
- Q-1585. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1018
- Q-1586. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1018
- Q-1587. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1018
- Q-1588. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1019
- Q-1589. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1019
- Q-1590. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1020
- Q-1591. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1020
- Q-1592. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1021
- Q-1593. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1023
- Q-1594. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1023

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- Q-1595. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1023
- Q-1596. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1024
- Q-1597. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1024
- Q-1598. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1025
- Q-1599. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1025
- Q-1600. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1026
- Q-1601. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1028
- Q-1602. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1028
- Q-1603. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1028
- Q-1604. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1029
- Q-1605. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1029
- Q-1606. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1030
- Q-1607. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-1030
- Q-1608. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) . . Q-1031
- Q-1609. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) Q-1033
- Q-1610. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) Q-1033
- Q-1611. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1033
- Q-1612. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) Q-1034
- Q-1613. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) Q-1034

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- Q-1614. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) Q-1035
- Q-1615. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-1035
- Q-1616. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ ) . . Q-1036
- Q-1617. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1038
- Q-1618. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1038
- Q-1619. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1038
- Q-1620. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1039
- Q-1621. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1039
- Q-1622. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1040
- Q-1623. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1040
- Q-1624. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1041
- Q-1625. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1043
- Q-1626. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1043
- Q-1627. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1043
- Q-1628. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1044
- Q-1629. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1044
- Q-1630. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1044
- Q-1631. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1045
- Q-1632. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1045

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Q-1633.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1047
Q-1634.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1047
Q-1635.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1048
Q-1636.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1048
Q-1637.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1049
Q-1638.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1049
Q-1639.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1050
Q-1640.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.3$ )	Q-1050
Q-1641.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1052
Q-1642.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1052
Q-1643.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1052
Q-1644.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1053
Q-1645.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1053
Q-1646.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1054
Q-1647.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1054
Q-1648.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1055
Q-1649.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1057
Q-1650.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1057
Q-1651.	Minimum and Maximum of Variables $M_x^{\text{dif}}$ and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1057

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- Q-1652. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1058
- Q-1653. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1058
- Q-1654. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1059
- Q-1655. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1059
- Q-1656. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1060
- Q-1657. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1062
- Q-1658. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1062
- Q-1659. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1062
- Q-1660. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1063
- Q-1661. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1063
- Q-1662. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1063
- Q-1663. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1064
- Q-1664. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1064
- Q-1665. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . Q-1066
- Q-1666. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . Q-1066
- Q-1667. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1067
- Q-1668. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . Q-1067
- Q-1669. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . Q-1068
- Q-1670. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ ) . Q-1068



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Q-1671.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-1069
Q-1672.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$ , $F_n = 0.0$ ) . .	Q-1069
Q-1673.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-1071
Q-1674.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-1071
Q-1675.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1072
Q-1676.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-1072
Q-1677.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ )	Q-1073
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Q-1679.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-1074
Q-1680.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . .	Q-1074
Q-1681.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-1076
Q-1682.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-1076
Q-1683.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1077
Q-1684.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-1077
Q-1685.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-1078
Q-1686.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ )	Q-1078
Q-1687.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-1079
Q-1688.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . .	Q-1079
Q-1689.	Minimum and Maximum of Variables $M_y^{\text{dif}}$ and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.0$ )	Q-1081

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- Q-1690. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1081
- Q-1691. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1082
- Q-1692. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1082
- Q-1693. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1083
- Q-1694. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1083
- Q-1695. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1084
- Q-1696. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1084
- Q-1697. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1086
- Q-1698. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1086
- Q-1699. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1087
- Q-1700. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1087
- Q-1701. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1088
- Q-1702. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1088
- Q-1703. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1089
- Q-1704. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1089
- Q-1705. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-1091
- Q-1706. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-1091
- Q-1707. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1092
- Q-1708. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-1092

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- Q-1709. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-1093
- Q-1710. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . Q-1093
- Q-1711. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1094
- Q-1712. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ ) . . Q-1094
- Q-1713. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1096
- Q-1714. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1096
- Q-1715. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1097
- Q-1716. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1097
- Q-1717. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1098
- Q-1718. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1098
- Q-1719. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1099
- Q-1720. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1099
- Q-1721. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) Q-1101
- Q-1722. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) Q-1101
- Q-1723. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1102
- Q-1724. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) Q-1102
- Q-1725. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) Q-1103
- Q-1726. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) Q-1103
- Q-1727. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . Q-1104

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- Q-1728. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ ) . . . Q-1104
- Q-1729. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1106
- Q-1730. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1106
- Q-1731. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1107
- Q-1732. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1107
- Q-1733. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1108
- Q-1734. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) Q-1108
- Q-1735. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1109
- Q-1736. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ ) . Q-1109
- Q-1737. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1111
- Q-1738. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1111
- Q-1739. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1112
- Q-1740. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1112
- Q-1741. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1113
- Q-1742. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1113
- Q-1743. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1114
- Q-1744. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1114
- Q-1745. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1116
- Q-1746. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ ) Q-1116

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Q-1747.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1116
Q-1748.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1117
Q-1749.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1117
Q-1750.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1118
Q-1751.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1118
Q-1752.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1119
Q-1753.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1121
Q-1754.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1121
Q-1755.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1121
Q-1756.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1122
Q-1757.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1122
Q-1758.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1123
Q-1759.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1123
Q-1760.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1124
Q-1761.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1126
Q-1762.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1126
Q-1763.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1126
Q-1764.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1127
Q-1765.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$ , $F_n = 0.0$ ) . . . . .	Q-1127

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- Q-1766. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) Q-1128
- Q-1767. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1128
- Q-1768. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ ) . Q-1129
- Q-1769. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1131
- Q-1770. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1131
- Q-1771. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . . . . . Q-1131
- Q-1772. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1132
- Q-1773. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1132
- Q-1774. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) Q-1132
- Q-1775. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1133
- Q-1776. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ ) . Q-1133
- Q-1777. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1135
- Q-1778. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1135
- Q-1779. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . . . . Q-1135
- Q-1780. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1136
- Q-1781. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1136
- Q-1782. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) Q-1137
- Q-1783. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1137
- Q-1784. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ ) . . Q-1138

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Q-1785.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1140
Q-1786.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1140
Q-1787.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1140
Q-1788.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1141
Q-1789.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1141
Q-1790.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1142
Q-1791.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1142
Q-1792.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$ , $F_n = 0.3$ )	Q-1143
Q-1793.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1145
Q-1794.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1145
Q-1795.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1146
Q-1796.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1146
Q-1797.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1147
Q-1798.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1147
Q-1799.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1148
Q-1800.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$ , $F_n = 0.3$ )	Q-1148
Q-1801.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-1150
Q-1802.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-1150
Q-1803.	Minimum and Maximum of Variables $M_z^{\text{dif}}$ and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$ , $F_n = 0.3$ )	Q-1150

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- Q-1804. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1151
- Q-1805. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1151
- Q-1806. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) Q-1151
- Q-1807. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1152
- Q-1808. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ ) . Q-1152



### Introduction

This appendix contains plots and tables related to the minimum and maximum value of each variable versus wave steepness for the 0-DOF prescribed motions of Model 5613 in task 2. The plots are found in Figures Q–1 through Q–226. For each variable, speed, and heading there is one plot that depicts the results from all the codes. If  $f$  stands for a time-dependent variable, then the quantities plotted are the minimum and maximum of

$$f^* \equiv \frac{f - \langle f \rangle}{H/\lambda}$$

where  $\langle f \rangle$  is the mean. Only filtered values  $f$  are used since filtered values lessen the impact of spikes that probably originate in numerical filtering schemes in the codes. Linear variation as a function of the amplitude appears as a horizontal line. Quadratic variation appears as a straight line with a nonzero slope.

Tables Q–1 through Q–1808 in this appendix correspond to the plots. Following each plot is one table for each of the eight codes for which data were received. The tables give information about the mean, the minimum and maximum of the unfiltered variable, the minimum and maximum of the filtered variable, and the starred function depicted in the figure.

For the corresponding time history plots, the reader is referred to Appendix G.

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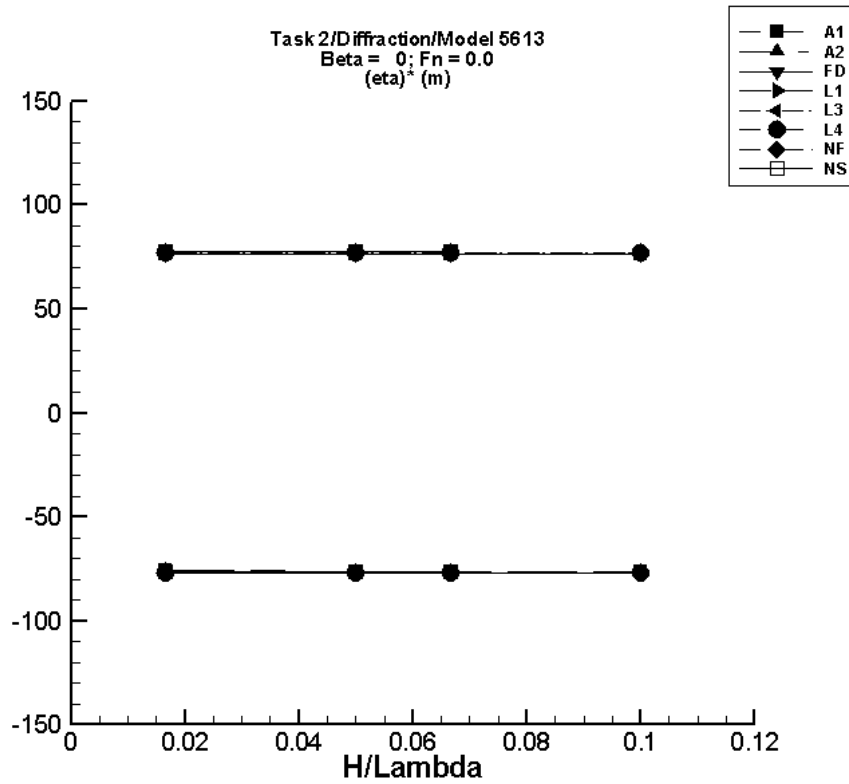


Figure Q-1. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–2. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–3. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

Table Q–4. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.20E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	1.86E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.48E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	3.72E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–5. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.20E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	1.86E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.48E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	3.72E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–6. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.20E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	1.86E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.48E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	3.72E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q-7. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-8. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.79E-04	-1.28	1.28	-1.27	1.29	-76.2	77.3
1/20	-8.36E-04	-3.85	3.85	-3.81	3.87	-76.2	77.4
1/15	-1.13E-03	-5.13	5.13	-5.10	5.15	-76.5	77.3
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

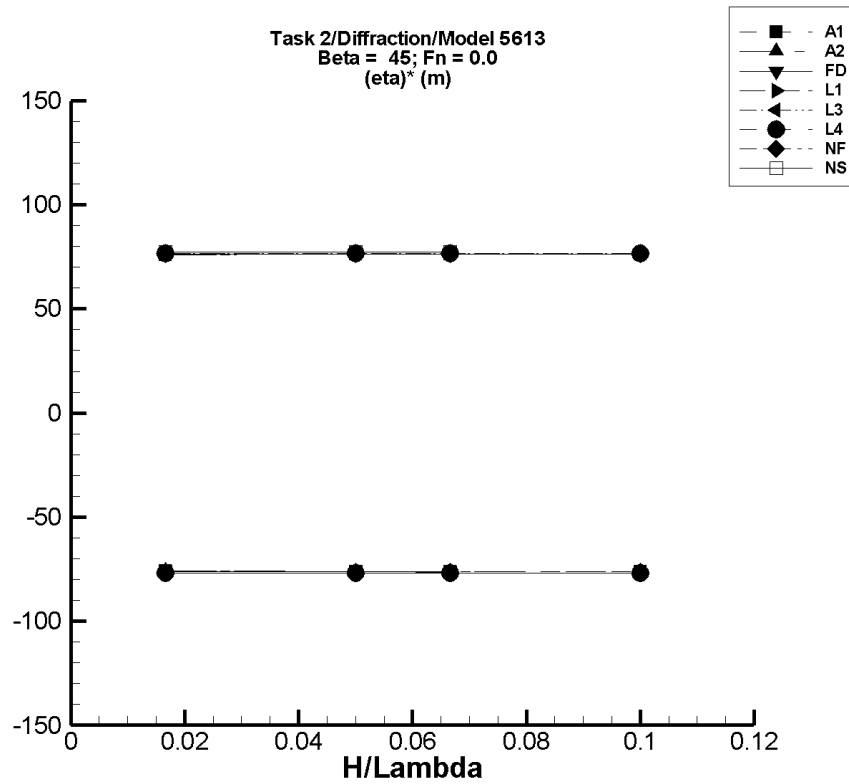


Figure Q-2. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–9. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–10. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–11. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

TASK 2/DIFFRACTION/MODEL 5613

Table Q–12. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	7.07E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.12E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.83E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	4.24E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–13. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	7.07E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.12E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.83E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	4.24E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–14. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	7.07E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.12E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.83E-03	-5.13	5.13	-5.11	5.11	-76.8	76.7
1/10	4.24E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7



Table Q–15. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–16. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.90E-04	-1.28	1.28	-1.27	1.29	-76.2	77.2
1/20	-8.71E-04	-3.85	3.85	-3.81	3.86	-76.2	77.3
1/15	-1.10E-03	-5.13	5.13	-5.10	5.15	-76.5	77.3
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

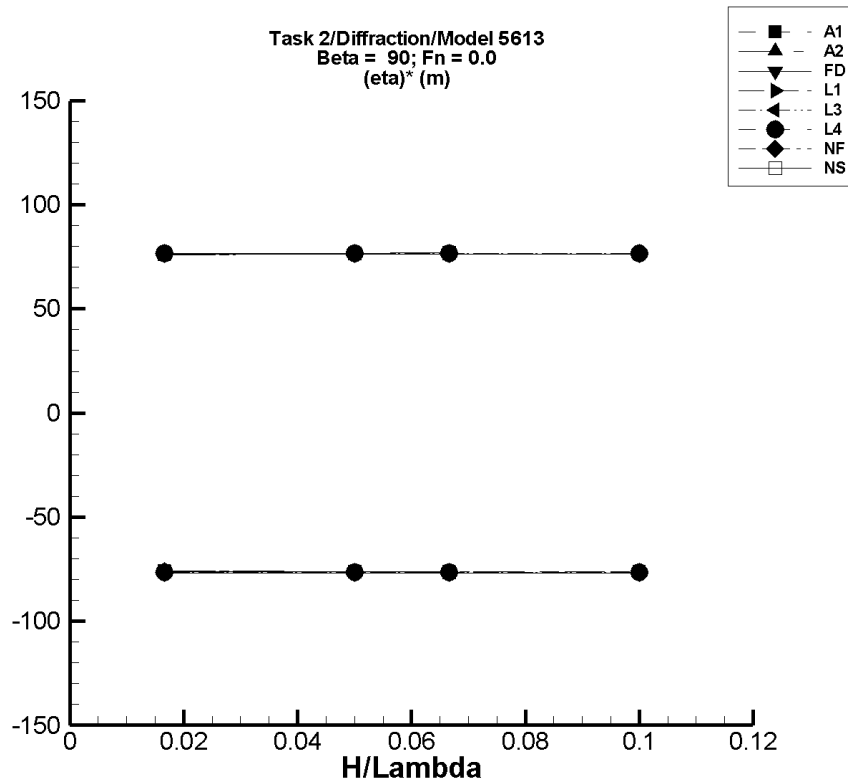


Figure Q-3. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–17. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–18. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–19. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

TASK 2/DIFFRACTION/MODEL 5613

Table Q–20. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8

Table Q–21. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8

Table Q–22. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–23. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–24. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.88E-04	-1.28	1.28	-1.27	1.28	-76.1	76.7
1/20	-8.65E-04	-3.85	3.85	-3.81	3.84	-76.2	76.8
1/15	-1.13E-03	-5.13	5.13	-5.10	5.13	-76.5	77.0
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

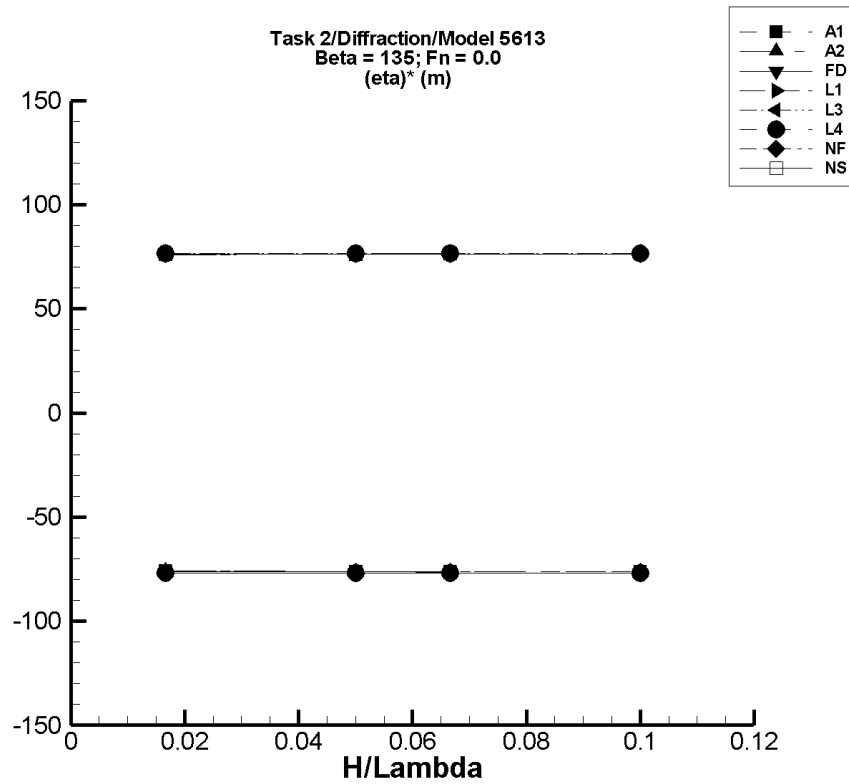


Figure Q-4. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–25. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–26. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–27. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

TASK 2/DIFFRACTION/MODEL 5613

Table Q–28. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.70E-04	-1.28	1.28	-1.28	1.28	-76.7	76.7
1/20	5.10E-04	-3.85	3.85	-3.84	3.84	-76.7	76.7
1/15	6.80E-04	-5.13	5.13	-5.11	5.11	-76.7	76.7
1/10	1.02E-03	-7.70	7.70	-7.67	7.67	-76.7	76.7

Table Q–29. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.70E-04	-1.28	1.28	-1.28	1.28	-76.7	76.7
1/20	5.10E-04	-3.85	3.85	-3.84	3.84	-76.7	76.7
1/15	6.80E-04	-5.13	5.13	-5.11	5.11	-76.7	76.7
1/10	1.02E-03	-7.70	7.70	-7.67	7.67	-76.7	76.7

Table Q–30. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.70E-04	-1.28	1.28	-1.28	1.28	-76.7	76.7
1/20	5.10E-04	-3.85	3.85	-3.84	3.84	-76.7	76.7
1/15	6.80E-04	-5.13	5.13	-5.11	5.11	-76.7	76.7
1/10	1.02E-03	-7.70	7.70	-7.67	7.67	-76.7	76.7



Table Q–31. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–32. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.84E-04	-1.28	1.28	-1.27	1.27	-76.2	76.2
1/20	-8.53E-04	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-1.16E-03	-5.13	5.13	-5.10	5.10	-76.5	76.5
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

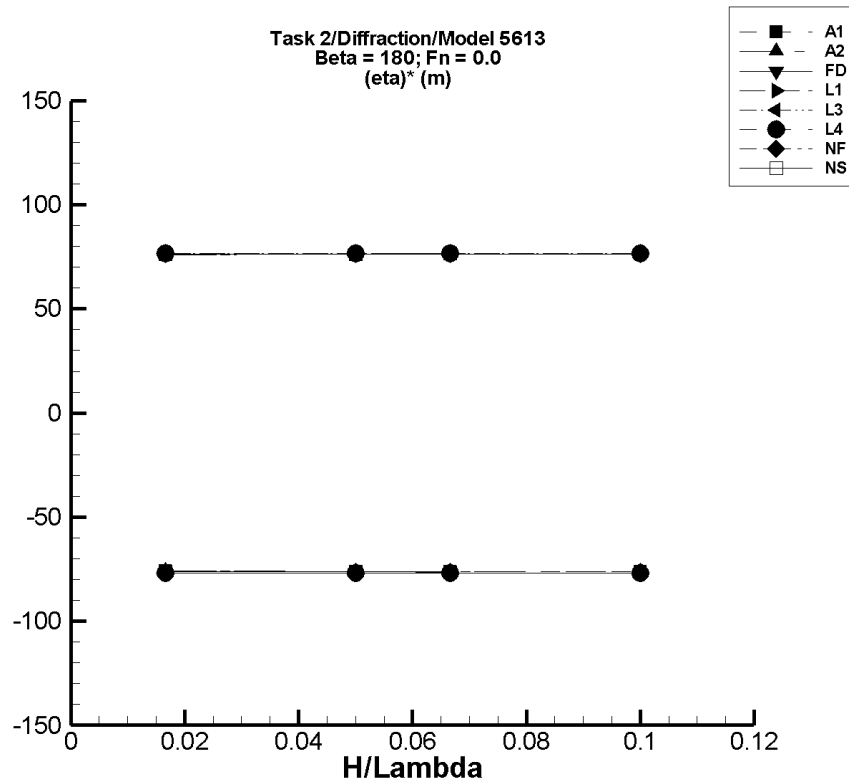


Figure Q-5. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–33. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–34. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q–35. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

TASK 2/DIFFRACTION/MODEL 5613

Table Q–36. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.79E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.04E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.71E-03	-5.13	5.13	-5.12	5.11	-76.8	76.7
1/10	4.07E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–37. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.79E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.04E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.71E-03	-5.13	5.13	-5.12	5.11	-76.8	76.7
1/10	4.07E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

Table Q–38. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.79E-04	-1.28	1.28	-1.28	1.28	-76.8	76.7
1/20	2.04E-03	-3.85	3.85	-3.84	3.84	-76.8	76.7
1/15	2.71E-03	-5.13	5.13	-5.12	5.11	-76.8	76.7
1/10	4.07E-03	-7.70	7.70	-7.67	7.67	-76.8	76.7

TASK 2/DIFFRACTION/MODEL 5613

Table Q–39. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–40. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.74E-04	-1.28	1.28	-1.27	1.27	-76.2	76.2
1/20	-8.23E-04	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-1.12E-03	-5.13	5.13	-5.10	5.10	-76.5	76.6
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

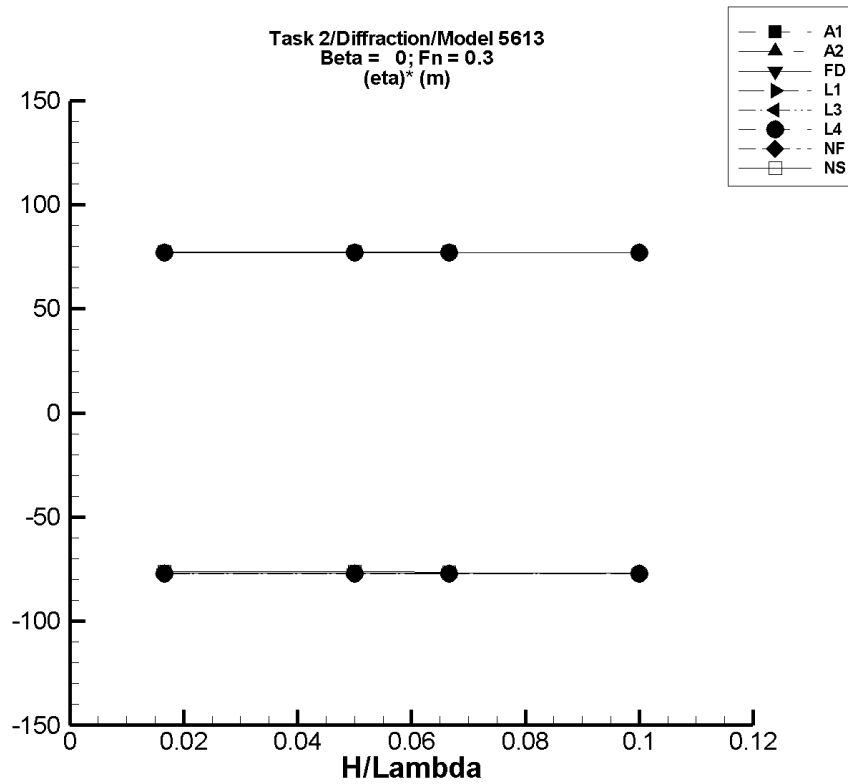


Figure Q-6. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–41. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-3.08E-05	-1.28	1.28	-1.28	1.28	-76.8	76.8
1/20	-9.24E-05	-3.85	3.85	-3.85	3.85	-76.9	77.0
1/15	-1.24E-04	-5.14	5.14	-5.14	5.14	-77.0	77.1
1/10	-1.87E-04	-7.71	7.71	-7.71	7.71	-77.0	77.1

Table Q–42. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-3.08E-05	-1.28	1.28	-1.28	1.28	-76.8	76.8
1/20	-9.24E-05	-3.85	3.85	-3.85	3.85	-76.9	77.0
1/15	-1.24E-04	-5.14	5.14	-5.14	5.14	-77.0	77.1
1/10	-1.87E-04	-7.71	7.71	-7.71	7.71	-77.0	77.1

Table Q–43. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.71E-05	-1.28	1.28	-1.28	1.28	-77.0	76.9
1/20	1.72E-04	-3.85	3.85	-3.85	3.85	-77.0	76.9
1/15	2.29E-04	-5.13	5.13	-5.13	5.13	-77.0	76.9
1/10	3.44E-04	-7.70	7.70	-7.70	7.70	-77.0	76.9

Table Q–44. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.91E-04	-1.28	1.28	-1.28	1.28	-77.1	76.9
1/20	2.67E-03	-3.85	3.85	-3.85	3.85	-77.1	76.9
1/15	3.56E-03	-5.13	5.13	-5.14	5.13	-77.1	76.9
1/10	5.34E-03	-7.70	7.70	-7.71	7.70	-77.1	76.9

Table Q–45. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.91E-04	-1.28	1.28	-1.28	1.28	-77.1	76.9
1/20	2.67E-03	-3.85	3.85	-3.85	3.85	-77.1	76.9
1/15	3.56E-03	-5.13	5.13	-5.14	5.13	-77.1	76.9
1/10	5.34E-03	-7.70	7.70	-7.71	7.70	-77.1	76.9

Table Q–46. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.91E-04	-1.28	1.28	-1.28	1.28	-77.1	76.9
1/20	2.67E-03	-3.85	3.85	-3.85	3.85	-77.1	76.9
1/15	3.56E-03	-5.13	5.13	-5.14	5.13	-77.1	76.9
1/10	5.34E-03	-7.70	7.70	-7.71	7.70	-77.1	76.9



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-47. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-48. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-7.67E-04	-1.28	1.28	-1.27	1.29	-76.2	77.4
1/20	-2.30E-03	-3.85	3.85	-3.81	3.87	-76.2	77.4
1/15	-3.06E-03	-5.13	5.13	-5.10	5.15	-76.5	77.4
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

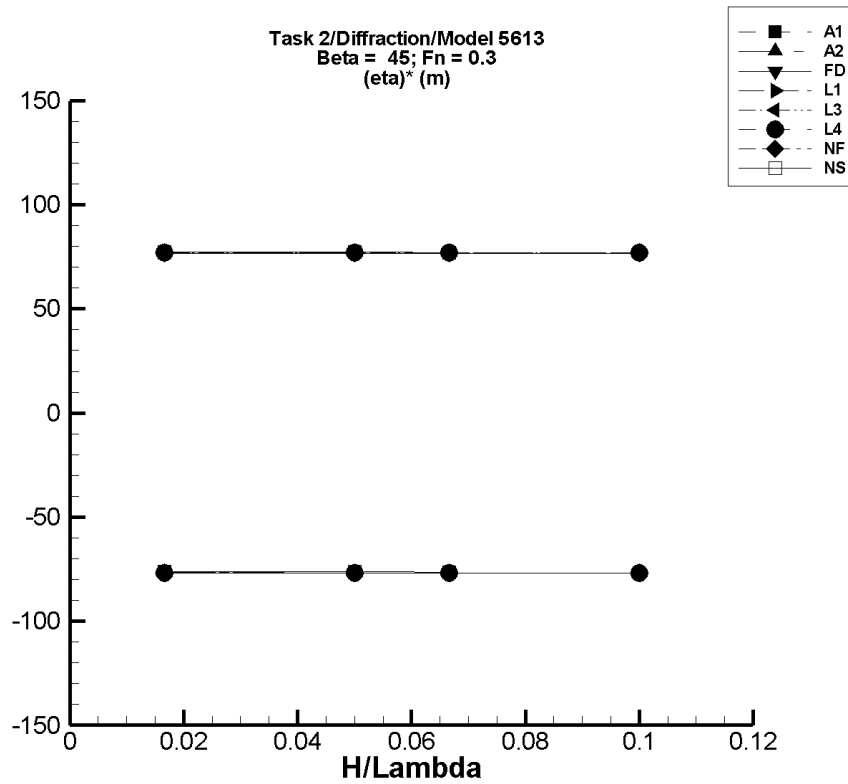


Figure Q-7. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–49. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.06E-04	-1.28	1.28	-1.28	1.28	-76.6	76.8
1/20	9.20E-04	-3.85	3.85	-3.84	3.85	-76.8	77.0
1/15	1.23E-03	-5.14	5.14	-5.13	5.14	-76.9	77.1
1/10	1.84E-03	-7.71	7.71	-7.69	7.71	-76.9	77.1

Table Q–50. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.06E-04	-1.28	1.28	-1.28	1.28	-76.6	76.8
1/20	9.20E-04	-3.85	3.85	-3.84	3.85	-76.8	77.0
1/15	1.23E-03	-5.14	5.14	-5.13	5.14	-76.9	77.1
1/10	1.84E-03	-7.71	7.71	-7.69	7.71	-76.9	77.1

Table Q–51. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.44E-04	-1.28	1.28	-1.28	1.28	-76.8	76.8
1/20	1.03E-03	-3.85	3.85	-3.84	3.84	-76.8	76.8
1/15	1.37E-03	-5.13	5.13	-5.12	5.12	-76.8	76.8
1/10	2.06E-03	-7.70	7.70	-7.68	7.68	-76.8	76.8

TASK 2/DIFFRACTION/MODEL 5613

Table Q-52. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.82E-04	-1.28	1.28	-1.28	1.28	-76.9	76.9
1/20	5.46E-04	-3.85	3.85	-3.85	3.85	-76.9	76.9
1/15	7.29E-04	-5.13	5.13	-5.13	5.13	-76.9	76.9
1/10	1.09E-03	-7.70	7.70	-7.69	7.70	-76.9	76.9

Table Q-53. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.82E-04	-1.28	1.28	-1.28	1.28	-76.9	76.9
1/20	5.46E-04	-3.85	3.85	-3.85	3.85	-76.9	76.9
1/15	7.29E-04	-5.13	5.13	-5.13	5.13	-76.9	76.9
1/10	1.09E-03	-7.70	7.70	-7.69	7.70	-76.9	76.9

Table Q-54. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.82E-04	-1.28	1.28	-1.28	1.28	-76.9	76.9
1/20	5.46E-04	-3.85	3.85	-3.85	3.85	-76.9	76.9
1/15	7.29E-04	-5.13	5.13	-5.13	5.13	-76.9	76.9
1/10	1.09E-03	-7.70	7.70	-7.69	7.70	-76.9	76.9

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–55. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–56. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.68E-04	-1.28	1.28	-1.27	1.29	-76.2	77.2
1/20	1.10E-03	-3.85	3.85	-3.81	3.86	-76.2	77.3
1/15	1.47E-03	-5.13	5.13	-5.10	5.14	-76.5	77.1
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

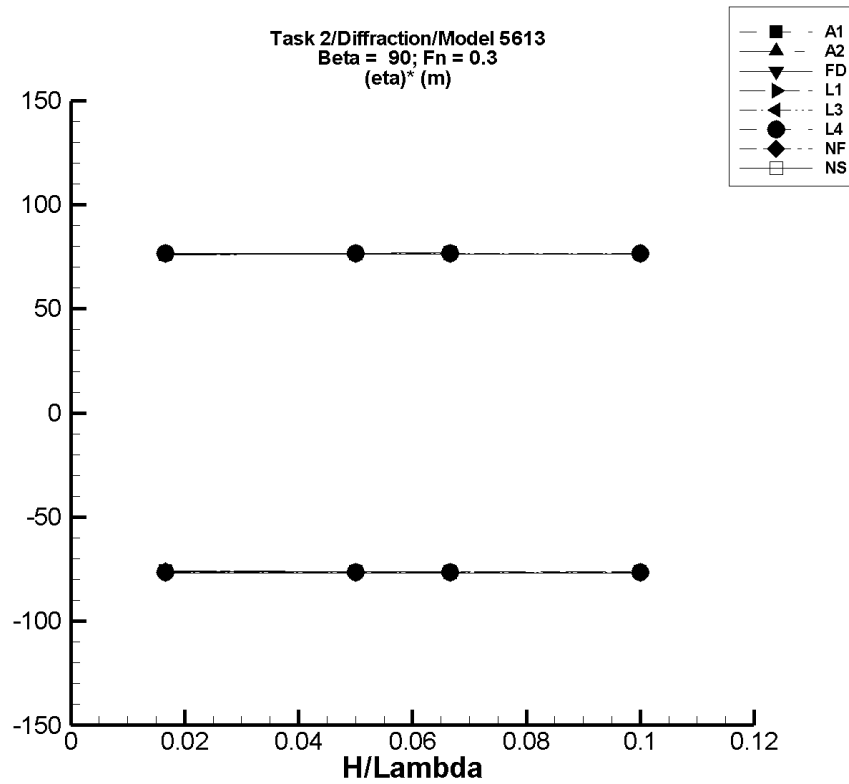


Figure Q-8. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-57. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q-58. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.09E-04	-1.28	1.28	-1.27	1.27	-76.0	76.0
1/20	-2.43E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-3.25E-03	-5.14	5.14	-5.09	5.09	-76.3	76.3
1/10	-4.87E-03	-7.71	7.71	-7.63	7.63	-76.3	76.3

Table Q-59. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.79E-04	-1.28	1.28	-1.28	1.27	-76.9	76.2
1/20	1.14E-03	-3.85	3.85	-3.84	3.81	-76.9	76.2
1/15	1.52E-03	-5.13	5.13	-5.12	5.08	-76.9	76.2
1/10	2.27E-03	-7.70	7.70	-7.68	7.62	-76.9	76.2

TASK 2/DIFFRACTION/MODEL 5613

Table Q-60. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8

Table Q-61. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8

Table Q-62. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.30E-04	-1.28	1.28	-1.28	1.28	-76.7	76.8
1/20	-1.59E-03	-3.85	3.85	-3.84	3.84	-76.7	76.8
1/15	-2.12E-03	-5.13	5.13	-5.11	5.12	-76.7	76.8
1/10	-3.18E-03	-7.70	7.70	-7.67	7.67	-76.7	76.8



# TASK 2/DIFFRACTION/MODEL 5613

Table Q–63. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–64. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.89E-04	-1.28	1.28	-1.27	1.28	-76.1	76.7
1/20	-8.66E-04	-3.85	3.85	-3.81	3.84	-76.2	76.8
1/15	-1.13E-03	-5.13	5.13	-5.10	5.13	-76.5	77.0
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

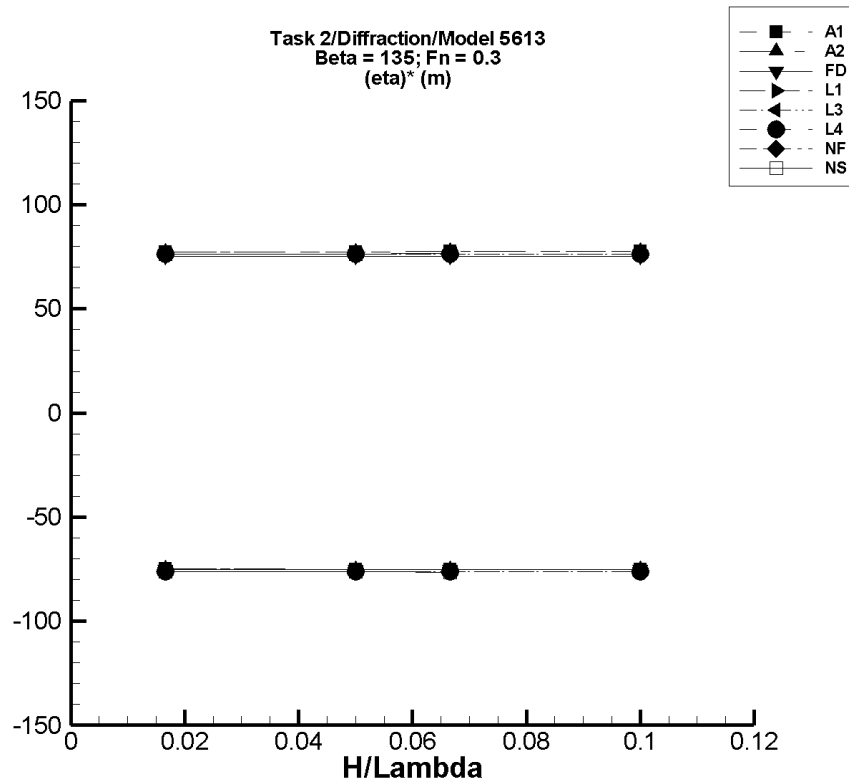


Figure Q-9. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-65. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.32E-04	-1.28	1.28	-1.25	1.29	-74.9	77.2
1/20	-1.60E-03	-3.85	3.85	-3.76	3.87	-75.1	77.4
1/15	-2.14E-03	-5.14	5.14	-5.01	5.16	-75.2	77.5
1/10	-3.21E-03	-7.70	7.71	-7.52	7.75	-75.2	77.5

Table Q-66. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-5.32E-04	-1.28	1.28	-1.25	1.29	-74.9	77.2
1/20	-1.60E-03	-3.85	3.85	-3.76	3.87	-75.1	77.4
1/15	-2.14E-03	-5.14	5.14	-5.01	5.16	-75.2	77.5
1/10	-3.21E-03	-7.70	7.71	-7.52	7.75	-75.2	77.5

Table Q-67. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	3.19E-05	-1.28	1.28	-1.25	1.25	-75.1	75.1
1/20	9.70E-05	-3.85	3.85	-3.76	3.76	-75.1	75.1
1/15	1.29E-04	-5.13	5.13	-5.01	5.01	-75.1	75.1
1/10	1.93E-04	-7.70	7.70	-7.51	7.51	-75.1	75.1

TASK 2/DIFFRACTION/MODEL 5613

Table Q–68. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.63E-04	-1.28	1.28	-1.27	1.27	-76.3	76.3
1/20	-4.88E-04	-3.85	3.85	-3.82	3.82	-76.3	76.3
1/15	-6.51E-04	-5.13	5.13	-5.09	5.09	-76.3	76.3
1/10	-9.76E-04	-7.70	7.70	-7.63	7.63	-76.3	76.3

Table Q–69. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.63E-04	-1.28	1.28	-1.27	1.27	-76.3	76.3
1/20	-4.88E-04	-3.85	3.85	-3.82	3.82	-76.3	76.3
1/15	-6.51E-04	-5.13	5.13	-5.09	5.09	-76.3	76.3
1/10	-9.76E-04	-7.70	7.70	-7.63	7.63	-76.3	76.3

Table Q–70. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.63E-04	-1.28	1.28	-1.27	1.27	-76.3	76.3
1/20	-4.88E-04	-3.85	3.85	-3.82	3.82	-76.3	76.3
1/15	-6.51E-04	-5.13	5.13	-5.09	5.09	-76.3	76.3
1/10	-9.76E-04	-7.70	7.70	-7.63	7.63	-76.3	76.3

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–71. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–72. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.34E-04	-1.28	1.28	-1.27	1.27	-76.2	76.2
1/20	4.01E-04	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	5.36E-04	-5.13	5.13	-5.10	5.10	-76.5	76.5
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

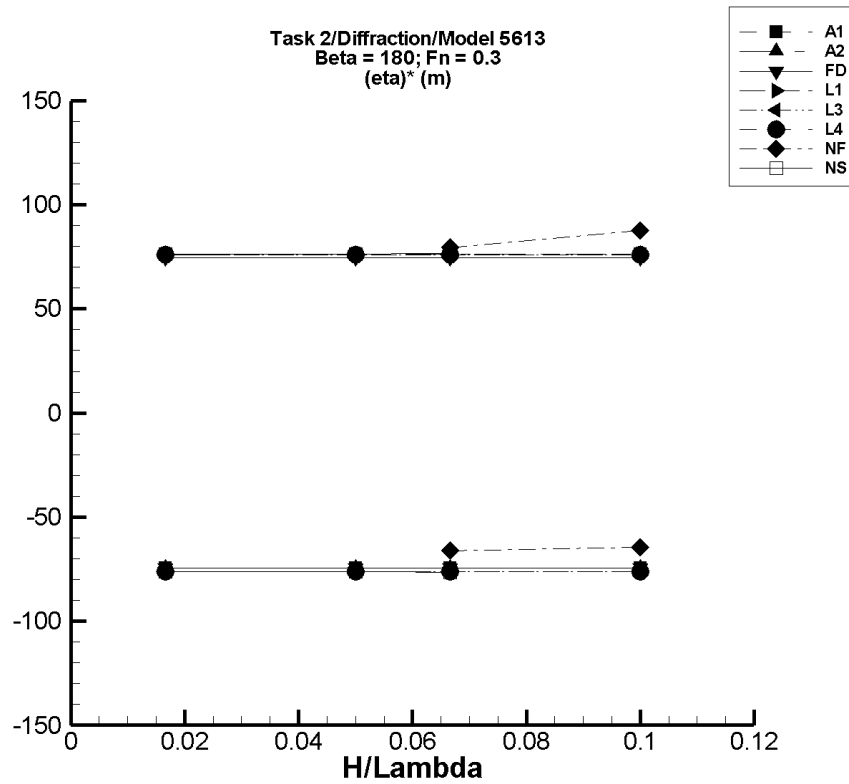


Figure Q-10. Minimum and maximum of filtered  $(\eta - \langle \eta \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-73. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.33E-03	-1.28	1.28	-1.24	1.27	-74.3	76.0
1/20	-3.99E-03	-3.85	3.85	-3.73	3.81	-74.5	76.2
1/15	-5.33E-03	-5.14	5.14	-4.98	5.08	-74.6	76.3
1/10	-8.00E-03	-7.71	7.71	-7.47	7.62	-74.6	76.3

Table Q-74. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.33E-03	-1.28	1.28	-1.24	1.27	-74.3	76.0
1/20	-3.99E-03	-3.85	3.85	-3.73	3.81	-74.5	76.2
1/15	-5.33E-03	-5.14	5.14	-4.98	5.08	-74.6	76.3
1/10	-8.00E-03	-7.71	7.71	-7.47	7.62	-74.6	76.3

Table Q-75. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-3.62E-04	-1.28	1.28	-1.24	1.24	-74.5	74.6
1/20	-1.09E-03	-3.85	3.85	-3.73	3.73	-74.5	74.6
1/15	-1.45E-03	-5.13	5.13	-4.97	4.97	-74.5	74.6
1/10	-2.17E-03	-7.70	7.70	-7.46	7.45	-74.5	74.6

TASK 2/DIFFRACTION/MODEL 5613

Table Q–76. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.56E-04	-1.28	1.28	-1.27	1.27	-76.2	76.1
1/20	2.57E-03	-3.85	3.85	-3.81	3.81	-76.2	76.1
1/15	3.42E-03	-5.13	5.13	-5.08	5.08	-76.2	76.1
1/10	5.14E-03	-7.70	7.70	-7.61	7.61	-76.2	76.1

Table Q–77. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.56E-04	-1.28	1.28	-1.27	1.27	-76.2	76.1
1/20	2.57E-03	-3.85	3.85	-3.81	3.81	-76.2	76.1
1/15	3.42E-03	-5.13	5.13	-5.08	5.08	-76.2	76.1
1/10	5.14E-03	-7.70	7.70	-7.61	7.61	-76.2	76.1

Table Q–78. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle\eta\rangle$	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	8.56E-04	-1.28	1.28	-1.27	1.27	-76.2	76.1
1/20	2.57E-03	-3.85	3.85	-3.81	3.81	-76.2	76.1
1/15	3.42E-03	-5.13	5.13	-5.08	5.08	-76.2	76.1
1/10	5.14E-03	-7.70	7.70	-7.61	7.61	-76.2	76.1



Table Q–79. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle \eta \rangle$ Mean (m)	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
		Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	—	—	—	—	—	—	—
1/20	-3.19E-03	-3.54	4.15	-3.40	3.89	-68.0	77.8
1/15	-3.65E-03	-4.59	5.67	-4.43	5.28	-66.4	79.3
1/10	-1.90E-02	-6.49	8.91	-6.45	8.75	-64.3	87.6

Table Q–80. Minimum and Maximum of Variables  $\eta$  and  $(\eta)^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle \eta \rangle$ Mean (m)	Unfiltered $\eta$		Filtered $\eta$		Filtered $(\eta)^*$	
		Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-7.40E-04	-1.28	1.28	-1.27	1.27	-76.2	76.2
1/20	-2.22E-03	-3.85	3.85	-3.81	3.81	-76.2	76.2
1/15	-2.97E-03	-5.13	5.13	-5.10	5.10	-76.5	76.6
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

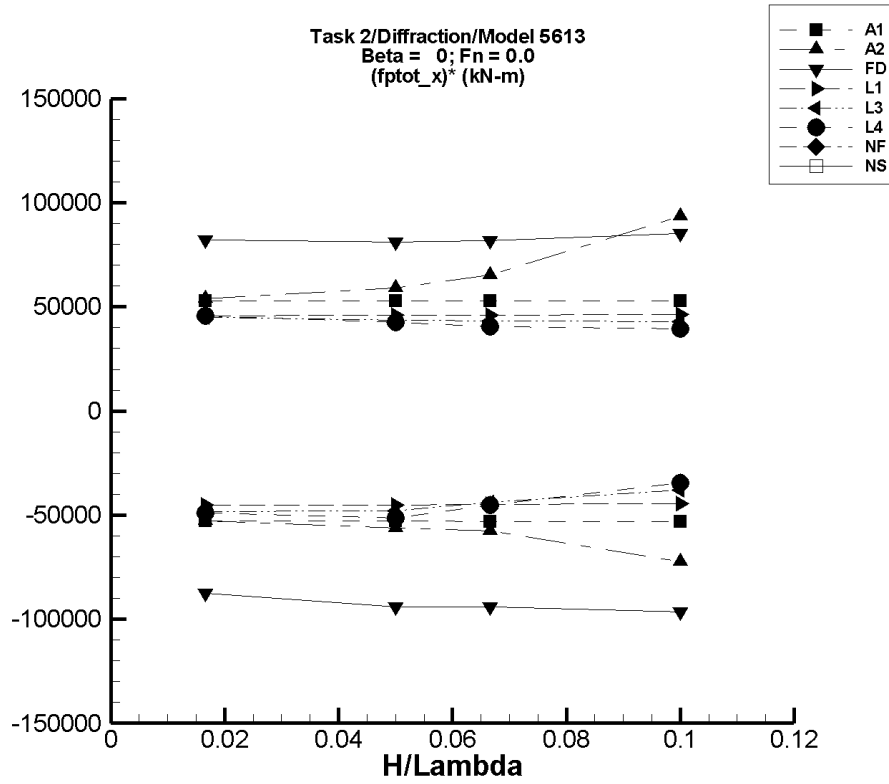


Figure Q-11. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–81. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-1.61	-890.	886.	-881.	877.	-5.28E+04	5.27E+04
1/20	-4.84	-2.68E+03	2.67E+03	-2.65E+03	2.64E+03	-5.29E+04	5.29E+04
1/15	-6.46	-3.57E+03	3.56E+03	-3.54E+03	3.52E+03	-5.30E+04	5.29E+04
1/10	-9.69	-5.36E+03	5.34E+03	-5.31E+03	5.28E+03	-5.30E+04	5.29E+04

Table Q–82. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	23.4	-883.	928.	-857.	920.	-5.29E+04	5.38E+04
1/20	89.3	-2.79E+03	3.10E+03	-2.72E+03	3.04E+03	-5.63E+04	5.90E+04
1/15	107.	-3.80E+03	4.55E+03	-3.74E+03	4.45E+03	-5.77E+04	6.52E+04
1/10	457.	-7.17E+03	9.81E+03	-6.78E+03	9.81E+03	-7.24E+04	9.35E+04

Table Q–83. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-9.28	-1.49E+03	1.37E+03	-1.47E+03	1.36E+03	-8.75E+04	8.21E+04
1/20	-1.12	-4.82E+03	4.10E+03	-4.71E+03	4.06E+03	-9.42E+04	8.13E+04
1/15	4.34	-6.39E+03	5.51E+03	-6.28E+03	5.46E+03	-9.42E+04	8.18E+04
1/10	9.90	-9.83E+03	8.67E+03	-9.63E+03	8.55E+03	-9.64E+04	8.54E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–84. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	0.880	-757.	764.	-754.	761.	-4.53E+04	4.56E+04
1/20	12.3	-2.25E+03	2.31E+03	-2.24E+03	2.31E+03	-4.50E+04	4.59E+04
1/15	22.9	-2.98E+03	3.10E+03	-2.97E+03	3.09E+03	-4.49E+04	4.60E+04
1/10	53.7	-4.43E+03	4.70E+03	-4.41E+03	4.68E+03	-4.47E+04	4.63E+04

Table Q–85. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-37.6	-846.	713.	-842.	710.	-4.82E+04	4.49E+04
1/20	-18.5	-2.44E+03	2.18E+03	-2.41E+03	2.17E+03	-4.79E+04	4.37E+04
1/15	-3.25	-2.96E+03	2.91E+03	-2.93E+03	2.89E+03	-4.39E+04	4.34E+04
1/10	30.3	-3.81E+03	4.36E+03	-3.77E+03	4.33E+03	-3.80E+04	4.30E+04

Table Q–86. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$   
,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	13.0	-814.	779.	-805.	772.	-4.91E+04	4.55E+04
1/20	421.	-2.25E+03	2.56E+03	-2.14E+03	2.54E+03	-5.13E+04	4.24E+04
1/15	719.	-2.42E+03	3.46E+03	-2.30E+03	3.41E+03	-4.53E+04	4.04E+04
1/10	1.20E+03	-2.60E+03	5.27E+03	-2.27E+03	5.13E+03	-3.47E+04	3.93E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–87. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–88. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

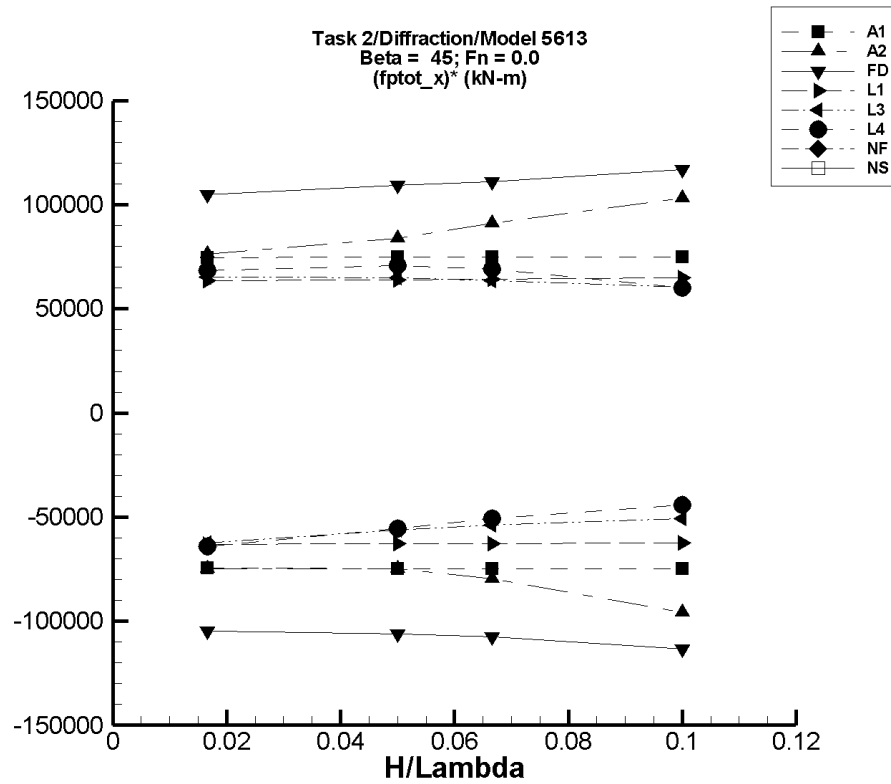


Figure Q-12. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-89. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-1.64	-1.26E+03	1.25E+03	-1.24E+03	1.24E+03	-7.45E+04	7.46E+04
1/20	-4.94	-3.78E+03	3.77E+03	-3.74E+03	3.73E+03	-7.47E+04	7.48E+04
1/15	-6.60	-5.04E+03	5.04E+03	-5.00E+03	4.98E+03	-7.48E+04	7.49E+04
1/10	-9.90	-7.57E+03	7.55E+03	-7.49E+03	7.48E+03	-7.48E+04	7.49E+04

Table Q-90. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	22.1	-1.25E+03	1.31E+03	-1.22E+03	1.30E+03	-7.46E+04	7.64E+04
1/20	48.6	-3.73E+03	4.31E+03	-3.69E+03	4.25E+03	-7.48E+04	8.40E+04
1/15	83.4	-5.38E+03	6.24E+03	-5.23E+03	6.16E+03	-7.98E+04	9.11E+04
1/10	160.	-9.53E+03	1.08E+04	-9.42E+03	1.05E+04	-9.58E+04	1.03E+05

Table Q-91. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-9.94	-1.77E+03	1.75E+03	-1.75E+03	1.74E+03	-1.05E+05	1.05E+05
1/20	-14.9	-5.38E+03	5.51E+03	-5.32E+03	5.45E+03	-1.06E+05	1.09E+05
1/15	-22.3	-7.26E+03	7.47E+03	-7.19E+03	7.39E+03	-1.08E+05	1.11E+05
1/10	-36.5	-1.15E+04	1.18E+04	-1.14E+04	1.17E+04	-1.13E+05	1.17E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-92. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	8.24	-1.05E+03	1.07E+03	-1.04E+03	1.07E+03	-6.31E+04	6.36E+04
1/20	77.3	-3.07E+03	3.29E+03	-3.06E+03	3.28E+03	-6.28E+04	6.41E+04
1/15	138.	-4.05E+03	4.44E+03	-4.04E+03	4.42E+03	-6.26E+04	6.43E+04
1/10	312.	-5.94E+03	6.82E+03	-5.92E+03	6.79E+03	-6.23E+04	6.48E+04

Table Q-93. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-30.7	-1.08E+03	1.06E+03	-1.07E+03	1.06E+03	-6.26E+04	6.54E+04
1/20	35.0	-2.79E+03	3.30E+03	-2.78E+03	3.29E+03	-5.64E+04	6.50E+04
1/15	93.9	-3.51E+03	4.35E+03	-3.50E+03	4.33E+03	-5.39E+04	6.35E+04
1/10	269.	-4.83E+03	6.35E+03	-4.81E+03	6.32E+03	-5.08E+04	6.05E+04

Table Q-94. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	19.2	-1.06E+03	1.17E+03	-1.05E+03	1.16E+03	-6.41E+04	6.83E+04
1/20	451.	-2.34E+03	4.01E+03	-2.32E+03	3.98E+03	-5.55E+04	7.07E+04
1/15	718.	-2.69E+03	5.38E+03	-2.66E+03	5.33E+03	-5.07E+04	6.92E+04
1/10	1.12E+03	-3.58E+03	7.42E+03	-3.29E+03	7.14E+03	-4.41E+04	6.01E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q–95. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–96. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

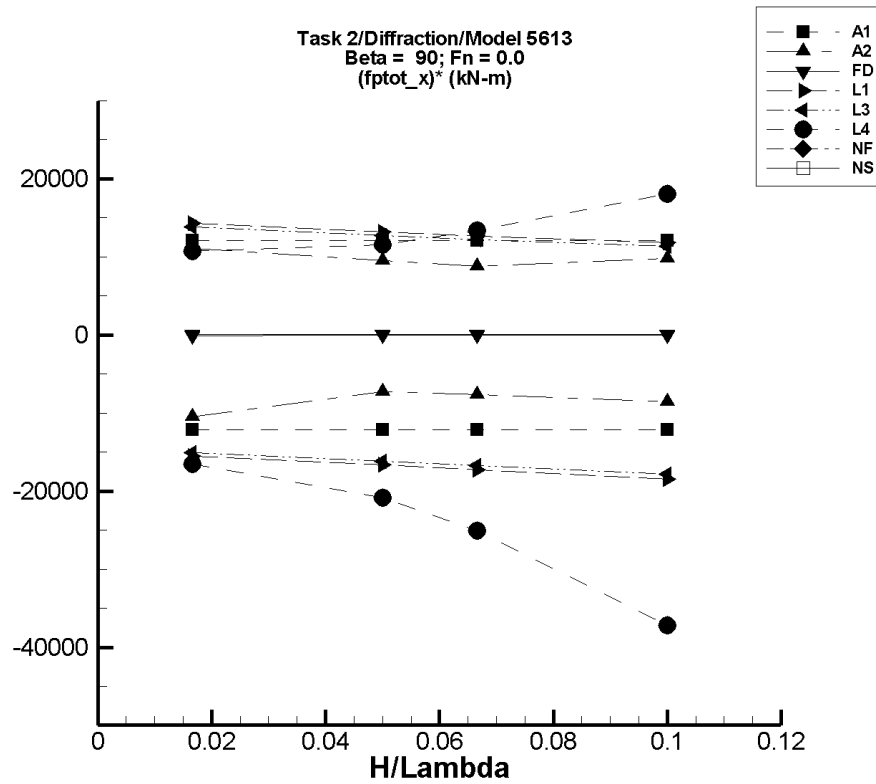


Figure Q-13. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-97. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>(F_x^{\text{ptot}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	1.00	-203.	204.	-201.	202.	-1.21E+04	1.21E+04
1/20	3.01	-611.	615.	-605.	608.	-1.22E+04	1.21E+04
1/15	4.02	-816.	821.	-808.	812.	-1.22E+04	1.21E+04
1/10	6.03	-1.22E+03	1.23E+03	-1.21E+03	1.22E+03	-1.22E+04	1.21E+04

Table Q-98. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>(F_x^{\text{ptot}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	25.1	-151.	212.	-150.	210.	-1.05E+04	1.11E+04
1/20	53.7	-1.68E+03	574.	-312.	528.	-7.31E+03	9.49E+03
1/15	98.5	-432.	703.	-410.	686.	-7.63E+03	8.82E+03
1/10	159.	-764.	1.14E+03	-694.	1.13E+03	-8.53E+03	9.75E+03

Table Q-99. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>F_x^{\text{ptot}}</math></b>		<b>Filtered <math>(F_x^{\text{ptot}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	-9.08	-10.7	-8.02	-10.5	-8.03	-87.9	63.2
1/20	-7.28	-9.27	-4.90	-8.70	-4.96	-28.4	46.4
1/15	-6.05	-9.05	-0.689	-8.39	-0.811	-35.1	78.6
1/10	-4.72	-8.60	0.436	-7.91	0.125	-31.9	48.4

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Table Q–100. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	11.6	-248.	251.	-247.	250.	-1.55E+04	1.43E+04
1/20	103.	-734.	764.	-731.	762.	-1.67E+04	1.32E+04
1/15	184.	-974.	1.03E+03	-968.	1.03E+03	-1.73E+04	1.26E+04
1/10	413.	-1.44E+03	1.60E+03	-1.43E+03	1.60E+03	-1.85E+04	1.18E+04

Table Q–101. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-27.1	-279.	205.	-278.	204.	-1.50E+04	1.39E+04
1/20	65.5	-747.	702.	-744.	700.	-1.62E+04	1.27E+04
1/15	145.	-976.	956.	-970.	954.	-1.67E+04	1.21E+04
1/10	372.	-1.42E+03	1.51E+03	-1.41E+03	1.51E+03	-1.78E+04	1.14E+04

Table Q–102. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-45.3	-323.	162.	-321.	134.	-1.66E+04	1.07E+04
1/20	-95.5	-1.25E+03	527.	-1.14E+03	481.	-2.09E+04	1.15E+04
1/15	-225.	-2.04E+03	829.	-1.90E+03	666.	-2.51E+04	1.34E+04
1/10	-606.	-4.70E+03	1.44E+03	-4.32E+03	1.20E+03	-3.72E+04	1.80E+04

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Table Q–103. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–104. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

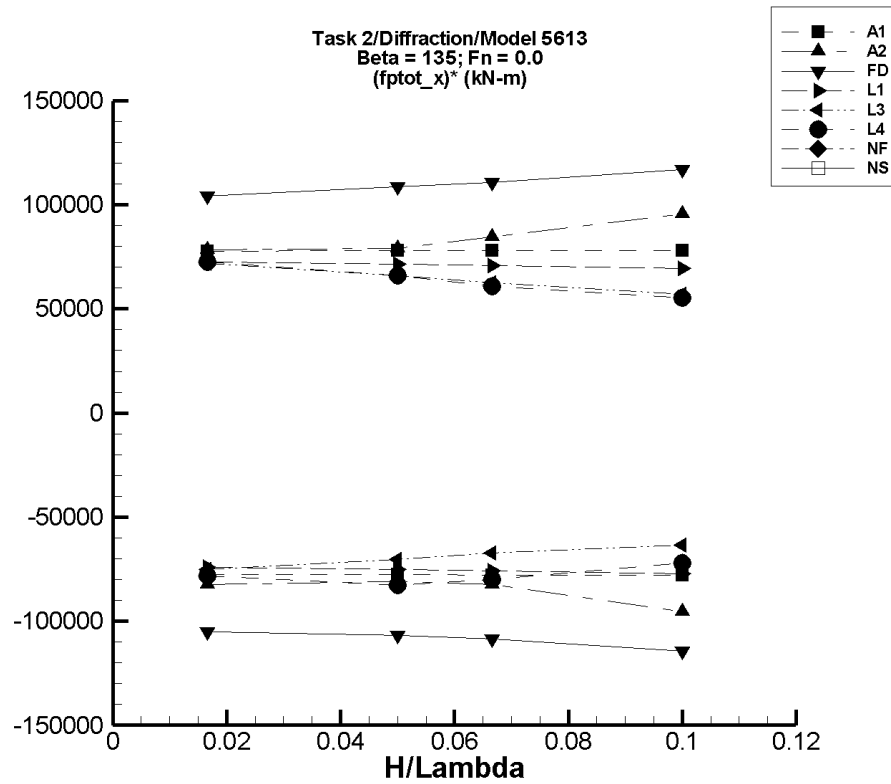


Figure Q-14. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q–105. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	2.25	-1.30E+03	1.31E+03	-1.29E+03	1.30E+03	-7.75E+04	7.77E+04
1/20	6.77	-3.92E+03	3.94E+03	-3.88E+03	3.90E+03	-7.77E+04	7.79E+04
1/15	9.03	-5.23E+03	5.26E+03	-5.18E+03	5.21E+03	-7.78E+04	7.80E+04
1/10	13.5	-7.84E+03	7.88E+03	-7.77E+03	7.81E+03	-7.78E+04	7.80E+04

Table Q–106. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	26.9	-1.36E+03	1.35E+03	-1.35E+03	1.33E+03	-8.24E+04	7.84E+04
1/20	69.7	-4.01E+03	4.11E+03	-3.98E+03	4.01E+03	-8.11E+04	7.89E+04
1/15	121.	-5.41E+03	6.87E+03	-5.36E+03	5.77E+03	-8.23E+04	8.47E+04
1/10	132.	-9.53E+03	9.89E+03	-9.41E+03	9.69E+03	-9.54E+04	9.55E+04

Table Q–107. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-8.52	-1.76E+03	1.75E+03	-1.76E+03	1.73E+03	-1.05E+05	1.04E+05
1/20	-7.28	-5.35E+03	5.49E+03	-5.34E+03	5.43E+03	-1.07E+05	1.09E+05
1/15	-11.2	-7.23E+03	7.45E+03	-7.24E+03	7.37E+03	-1.08E+05	1.11E+05
1/10	-29.7	-1.15E+04	1.18E+04	-1.15E+04	1.16E+04	-1.15E+05	1.17E+05

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Table Q–108. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	8.36	-1.23E+03	1.22E+03	-1.22E+03	1.22E+03	-7.40E+04	7.26E+04
1/20	67.4	-3.71E+03	3.65E+03	-3.70E+03	3.63E+03	-7.52E+04	7.13E+04
1/15	118.	-4.96E+03	4.85E+03	-4.94E+03	4.83E+03	-7.59E+04	7.07E+04
1/10	262.	-7.48E+03	7.23E+03	-7.45E+03	7.21E+03	-7.71E+04	6.95E+04

Table Q–109. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-30.4	-1.29E+03	1.17E+03	-1.29E+03	1.17E+03	-7.53E+04	7.18E+04
1/20	26.5	-3.50E+03	3.33E+03	-3.49E+03	3.32E+03	-7.04E+04	6.59E+04
1/15	75.3	-4.41E+03	4.25E+03	-4.40E+03	4.23E+03	-6.71E+04	6.24E+04
1/10	215.	-6.16E+03	5.93E+03	-6.13E+03	5.91E+03	-6.35E+04	5.69E+04

Table Q–110. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-68.4	-1.38E+03	1.14E+03	-1.37E+03	1.14E+03	-7.82E+04	7.25E+04
1/20	-354.	-4.52E+03	2.96E+03	-4.50E+03	2.94E+03	-8.28E+04	6.58E+04
1/15	-579.	-5.96E+03	3.53E+03	-5.90E+03	3.48E+03	-7.98E+04	6.09E+04
1/10	-889.	-8.25E+03	7.26E+03	-8.09E+03	4.63E+03	-7.20E+04	5.52E+04



Table Q–111. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–112. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

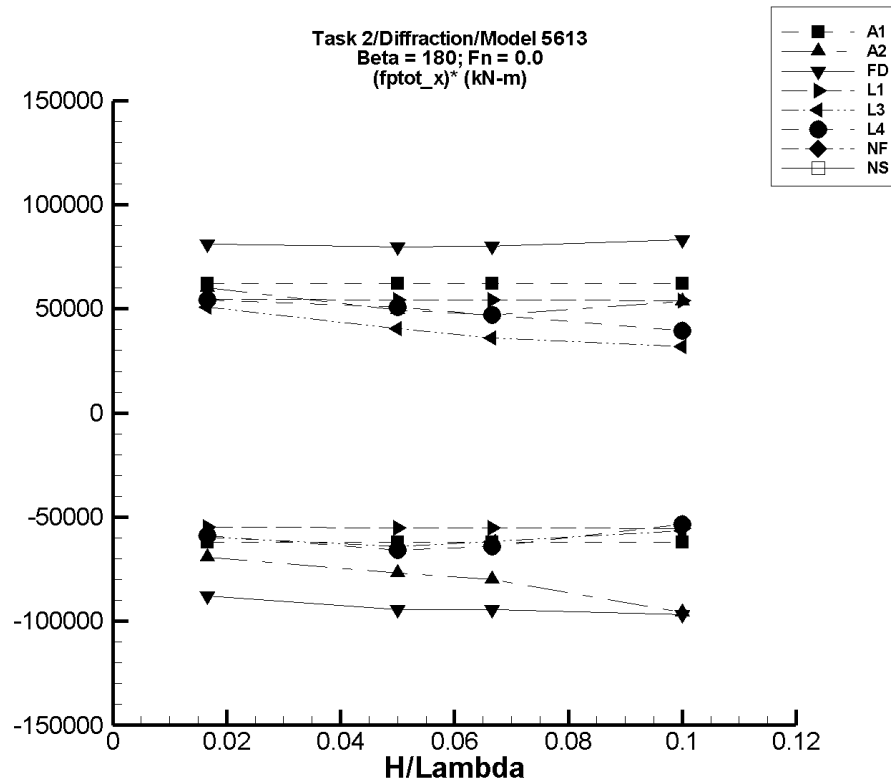


Figure Q-15. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q–113. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	1.56	-1.04E+03	1.05E+03	-1.03E+03	1.04E+03	-6.20E+04	6.21E+04
1/20	4.68	-3.13E+03	3.15E+03	-3.10E+03	3.12E+03	-6.21E+04	6.23E+04
1/15	6.25	-4.18E+03	4.20E+03	-4.14E+03	4.16E+03	-6.22E+04	6.23E+04
1/10	9.37	-6.28E+03	6.31E+03	-6.21E+03	6.24E+03	-6.22E+04	6.23E+04

Table Q–114. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	26.6	-1.14E+03	1.04E+03	-1.13E+03	1.03E+03	-6.91E+04	6.00E+04
1/20	84.1	-4.49E+03	2.59E+03	-3.76E+03	2.55E+03	-7.70E+04	4.93E+04
1/15	126.	-5.34E+03	3.30E+03	-5.20E+03	3.27E+03	-7.99E+04	4.71E+04
1/10	439.	-9.44E+03	6.26E+03	-9.13E+03	5.80E+03	-9.57E+04	5.36E+04

Table Q–115. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-8.47	-1.48E+03	1.36E+03	-1.47E+03	1.34E+03	-8.80E+04	8.12E+04
1/20	2.89	-4.82E+03	4.03E+03	-4.72E+03	3.99E+03	-9.44E+04	7.98E+04
1/15	12.8	-6.41E+03	5.40E+03	-6.29E+03	5.35E+03	-9.46E+04	8.00E+04
1/10	32.4	-9.86E+03	8.46E+03	-9.66E+03	8.34E+03	-9.69E+04	8.31E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–116. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	13.6	-906.	927.	-902.	924.	-5.50E+04	5.46E+04
1/20	117.	-2.65E+03	2.85E+03	-2.64E+03	2.84E+03	-5.52E+04	5.44E+04
1/15	208.	-3.50E+03	3.84E+03	-3.48E+03	3.82E+03	-5.53E+04	5.42E+04
1/10	465.	-5.12E+03	5.88E+03	-5.10E+03	5.87E+03	-5.56E+04	5.40E+04

Table Q–117. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-25.0	-1.02E+03	826.	-1.02E+03	823.	-5.97E+04	5.09E+04
1/20	89.4	-3.16E+03	2.12E+03	-3.12E+03	2.12E+03	-6.43E+04	4.06E+04
1/15	186.	-3.98E+03	2.60E+03	-3.94E+03	2.59E+03	-6.19E+04	3.61E+04
1/10	451.	-5.27E+03	3.66E+03	-5.21E+03	3.65E+03	-5.66E+04	3.19E+04

Table Q–118. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-50.3	-1.04E+03	867.	-1.03E+03	855.	-5.90E+04	5.43E+04
1/20	-219.	-3.65E+03	2.44E+03	-3.51E+03	2.32E+03	-6.58E+04	5.07E+04
1/15	-346.	-4.67E+03	3.00E+03	-4.62E+03	2.78E+03	-6.42E+04	4.69E+04
1/10	-513.	-6.81E+03	5.26E+03	-5.86E+03	3.42E+03	-5.35E+04	3.94E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–119. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–120. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

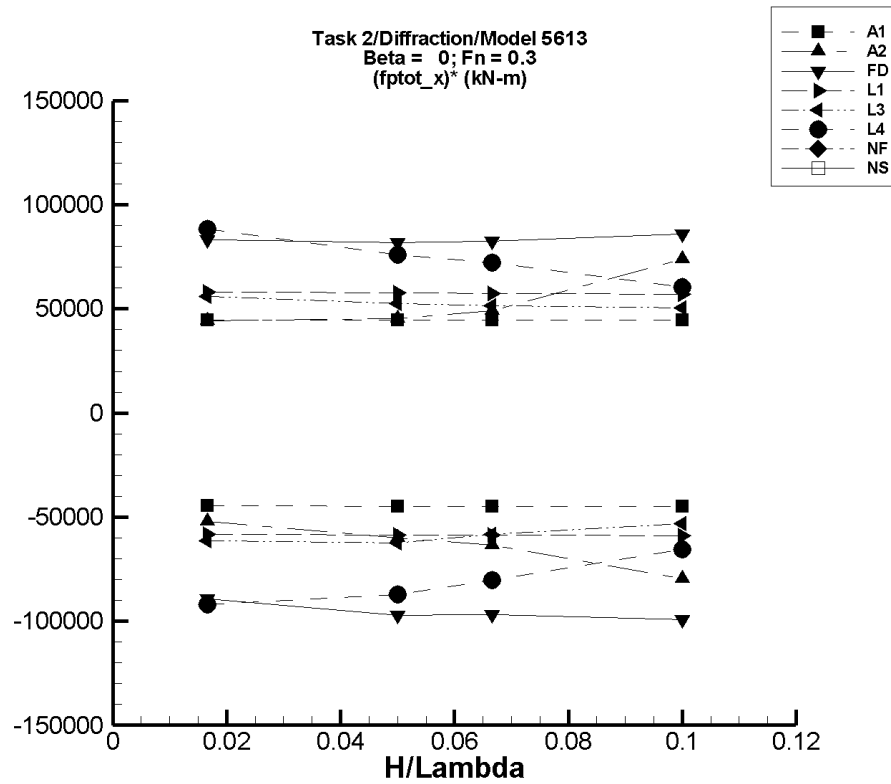


Figure Q-16. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-121. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	0.206	-745.	742.	-744.	742.	-4.47E+04	4.45E+04
1/20	0.620	-2.24E+03	2.23E+03	-2.24E+03	2.23E+03	-4.48E+04	4.46E+04
1/15	0.827	-2.99E+03	2.98E+03	-2.99E+03	2.98E+03	-4.48E+04	4.47E+04
1/10	1.24	-4.49E+03	4.47E+03	-4.48E+03	4.47E+03	-4.48E+04	4.47E+04

Table Q-122. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	25.0	-860.	773.	-846.	765.	-5.22E+04	4.44E+04
1/20	84.2	-2.99E+03	2.36E+03	-2.92E+03	2.36E+03	-6.01E+04	4.54E+04
1/15	111.	-4.21E+03	3.38E+03	-4.13E+03	3.38E+03	-6.36E+04	4.90E+04
1/10	432.	-7.60E+03	7.89E+03	-7.53E+03	7.82E+03	-7.96E+04	7.39E+04

Table Q-123. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-8.78	-1.49E+03	1.38E+03	-1.49E+03	1.38E+03	-8.92E+04	8.31E+04
1/20	2.40	-4.86E+03	4.10E+03	-4.85E+03	4.10E+03	-9.71E+04	8.19E+04
1/15	9.15	-6.45E+03	5.50E+03	-6.45E+03	5.50E+03	-9.68E+04	8.24E+04
1/10	21.3	-9.92E+03	8.63E+03	-9.91E+03	8.62E+03	-9.93E+04	8.60E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–124. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-26.9	-997.	939.	-996.	939.	-5.82E+04	5.79E+04
1/20	94.2	-2.83E+03	2.98E+03	-2.83E+03	2.98E+03	-5.85E+04	5.76E+04
1/15	201.	-3.71E+03	4.03E+03	-3.71E+03	4.03E+03	-5.86E+04	5.75E+04
1/10	506.	-5.39E+03	6.22E+03	-5.39E+03	6.22E+03	-5.89E+04	5.72E+04

Table Q–125. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-65.3	-1.09E+03	867.	-1.09E+03	867.	-6.14E+04	5.59E+04
1/20	63.1	-3.06E+03	2.69E+03	-3.06E+03	2.69E+03	-6.25E+04	5.25E+04
1/15	172.	-3.73E+03	3.60E+03	-3.72E+03	3.60E+03	-5.84E+04	5.14E+04
1/10	475.	-4.84E+03	5.52E+03	-4.84E+03	5.52E+03	-5.31E+04	5.04E+04

Table Q–126. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	146.	-1.40E+03	1.68E+03	-1.39E+03	1.62E+03	-9.20E+04	8.83E+04
1/20	576.	-3.82E+03	4.44E+03	-3.79E+03	4.38E+03	-8.72E+04	7.60E+04
1/15	713.	-4.83E+03	5.65E+03	-4.64E+03	5.53E+03	-8.03E+04	7.22E+04
1/10	982.	-6.00E+03	7.59E+03	-5.58E+03	7.04E+03	-6.56E+04	6.05E+04



Table Q–127. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–128. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

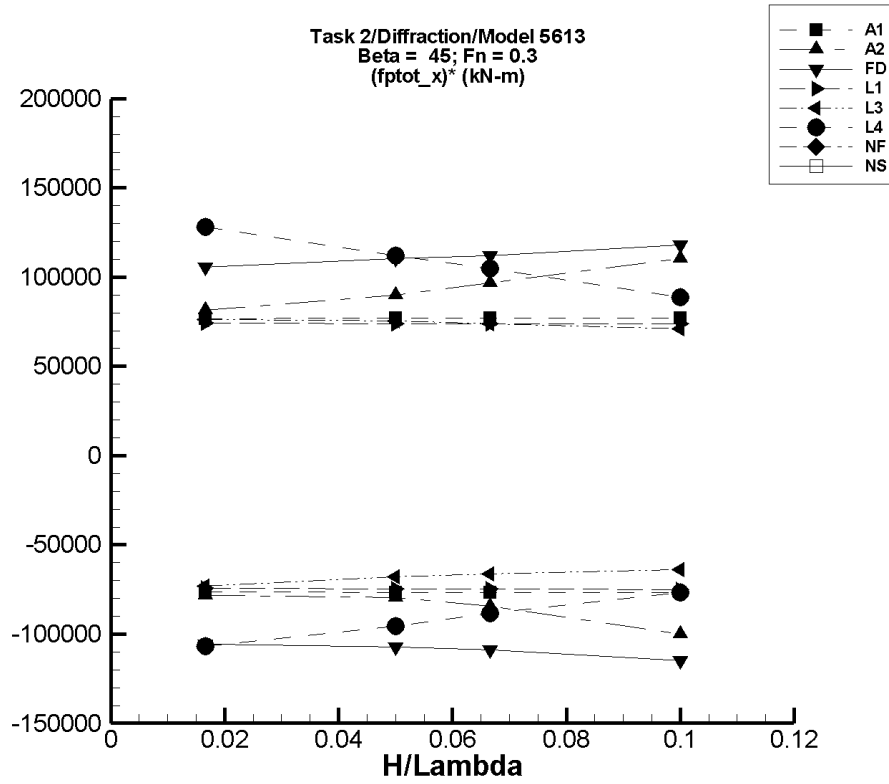


Figure Q-17. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–129. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	3.63	-1.27E+03	1.29E+03	-1.27E+03	1.28E+03	-7.63E+04	7.67E+04
1/20	10.9	-3.82E+03	3.87E+03	-3.82E+03	3.86E+03	-7.65E+04	7.69E+04
1/15	14.6	-5.11E+03	5.16E+03	-5.09E+03	5.15E+03	-7.66E+04	7.70E+04
1/10	21.9	-7.66E+03	7.74E+03	-7.64E+03	7.72E+03	-7.66E+04	7.70E+04

Table Q–130. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	26.8	-1.28E+03	1.39E+03	-1.28E+03	1.38E+03	-7.82E+04	8.13E+04
1/20	80.3	-3.90E+03	4.58E+03	-3.90E+03	4.57E+03	-7.95E+04	8.97E+04
1/15	114.	-5.53E+03	6.64E+03	-5.51E+03	6.56E+03	-8.44E+04	9.66E+04
1/10	168.	-9.85E+03	1.14E+04	-9.83E+03	1.12E+04	-1.00E+05	1.10E+05

Table Q–131. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-8.97	-1.78E+03	1.76E+03	-1.77E+03	1.75E+03	-1.06E+05	1.06E+05
1/20	-8.10	-5.39E+03	5.52E+03	-5.38E+03	5.50E+03	-1.07E+05	1.10E+05
1/15	-7.31	-7.28E+03	7.48E+03	-7.26E+03	7.46E+03	-1.09E+05	1.12E+05
1/10	-2.60	-1.15E+04	1.18E+04	-1.15E+04	1.18E+04	-1.15E+05	1.18E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–132. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-29.1	-1.27E+03	1.21E+03	-1.27E+03	1.21E+03	-7.43E+04	7.41E+04
1/20	70.3	-3.66E+03	3.77E+03	-3.66E+03	3.77E+03	-7.46E+04	7.39E+04
1/15	157.	-4.83E+03	5.08E+03	-4.83E+03	5.08E+03	-7.47E+04	7.38E+04
1/10	405.	-7.11E+03	7.79E+03	-7.10E+03	7.78E+03	-7.51E+04	7.38E+04

Table Q–133. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-67.8	-1.29E+03	1.20E+03	-1.29E+03	1.20E+03	-7.32E+04	7.61E+04
1/20	33.8	-3.37E+03	3.81E+03	-3.37E+03	3.81E+03	-6.80E+04	7.55E+04
1/15	121.	-4.29E+03	5.05E+03	-4.29E+03	5.05E+03	-6.61E+04	7.39E+04
1/10	366.	-6.03E+03	7.46E+03	-6.02E+03	7.46E+03	-6.39E+04	7.09E+04

Table Q–134. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	160.	-1.64E+03	2.29E+03	-1.62E+03	2.29E+03	-1.07E+05	1.28E+05
1/20	609.	-4.26E+03	6.30E+03	-4.18E+03	6.21E+03	-9.57E+04	1.12E+05
1/15	763.	-5.29E+03	7.76E+03	-5.12E+03	7.73E+03	-8.83E+04	1.05E+05
1/10	1.07E+03	-6.81E+03	1.17E+04	-6.60E+03	9.93E+03	-7.67E+04	8.86E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–135. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–136. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

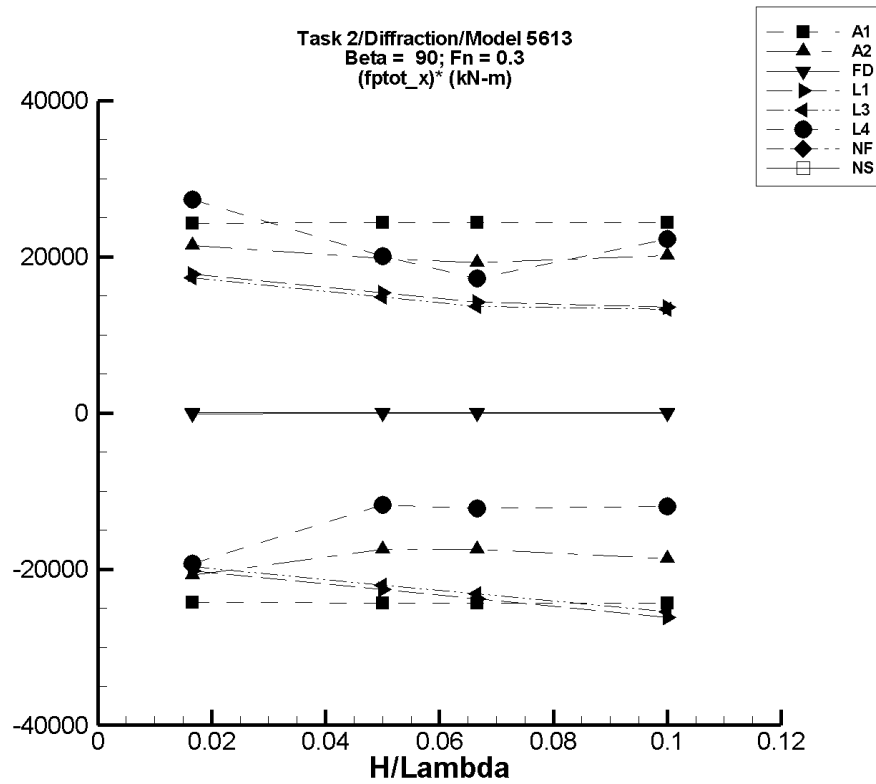


Figure Q-18. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–137. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.125	-409.	410.	-405.	405.	-2.43E+04	2.43E+04
1/20	0.377	-1.23E+03	1.23E+03	-1.22E+03	1.22E+03	-2.43E+04	2.44E+04
1/15	0.503	-1.64E+03	1.65E+03	-1.62E+03	1.63E+03	-2.44E+04	2.44E+04
1/10	0.755	-2.47E+03	2.47E+03	-2.44E+03	2.44E+03	-2.44E+04	2.44E+04

Table Q–138. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	24.2	-324.	385.	-322.	381.	-2.08E+04	2.14E+04
1/20	51.0	-1.61E+03	1.08E+03	-824.	1.04E+03	-1.75E+04	1.98E+04
1/15	96.0	-1.07E+03	1.40E+03	-1.07E+03	1.38E+03	-1.75E+04	1.92E+04
1/10	153.	-1.79E+03	2.19E+03	-1.71E+03	2.17E+03	-1.87E+04	2.01E+04

Table Q–139. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-9.08	-10.7	-8.02	-10.5	-8.03	-87.9	63.2
1/20	-7.28	-9.26	-4.90	-8.70	-4.96	-28.4	46.4
1/15	-6.05	-9.04	-0.689	-8.39	-0.811	-35.0	78.6
1/10	-4.72	-8.60	0.437	-7.91	0.125	-31.9	48.4

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Table Q–140. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-36.6	-374.	260.	-373.	259.	-2.02E+04	1.78E+04
1/20	3.34	-1.13E+03	772.	-1.13E+03	771.	-2.26E+04	1.53E+04
1/15	38.2	-1.56E+03	983.	-1.55E+03	983.	-2.38E+04	1.42E+04
1/10	138.	-2.50E+03	1.49E+03	-2.48E+03	1.49E+03	-2.62E+04	1.35E+04

Table Q–141. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	-75.2	-405.	214.	-403.	213.	-1.97E+04	1.73E+04
1/20	-34.6	-1.14E+03	706.	-1.14E+03	706.	-2.20E+04	1.48E+04
1/15	-0.304	-1.55E+03	911.	-1.55E+03	910.	-2.32E+04	1.37E+04
1/10	96.4	-2.47E+03	1.43E+03	-2.45E+03	1.42E+03	-2.55E+04	1.33E+04

Table Q–142. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{ptot}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{ptot}})^*$ <b>Max.</b> (kN)
1/60	154.	-183.	616.	-168.	610.	-1.93E+04	2.73E+04
1/20	545.	-136.	1.61E+03	-43.4	1.55E+03	-1.18E+04	2.01E+04
1/15	668.	-169.	1.93E+03	-148.	1.82E+03	-1.22E+04	1.72E+04
1/10	959.	-4.45E+03	6.70E+03	-234.	3.19E+03	-1.19E+04	2.23E+04



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Table Q–143. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–144. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

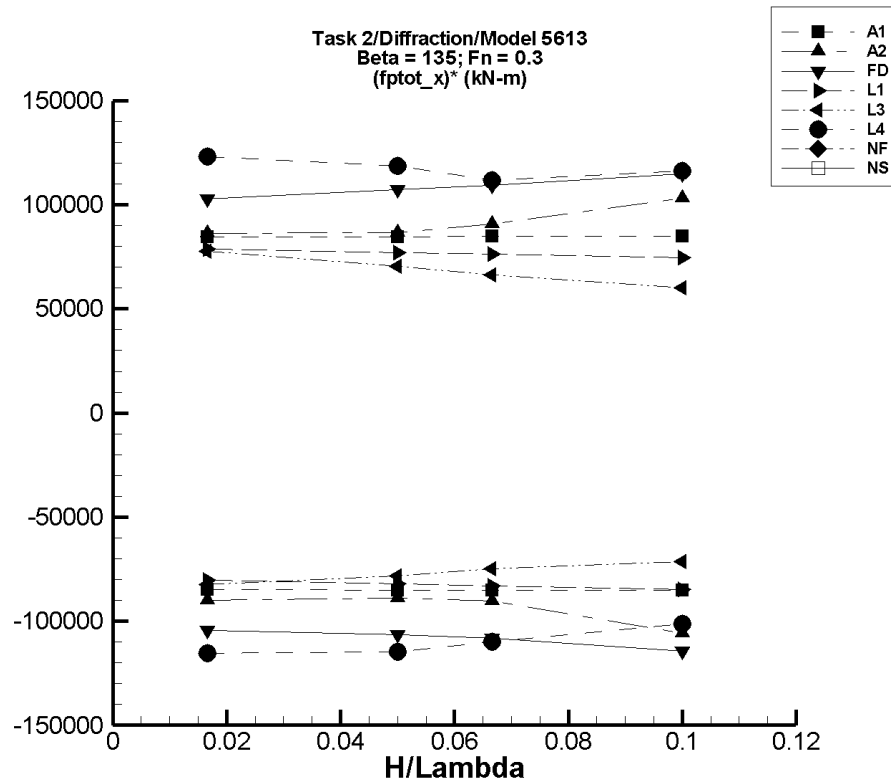


Figure Q-19. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-145. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.68E-03	-1.45E+03	1.44E+03	-1.41E+03	1.41E+03	-8.48E+04	8.45E+04
1/20	4.69E-03	-4.35E+03	4.34E+03	-4.25E+03	4.24E+03	-8.50E+04	8.47E+04
1/15	6.58E-03	-5.81E+03	5.79E+03	-5.67E+03	5.65E+03	-8.51E+04	8.48E+04
1/10	9.97E-03	-8.71E+03	8.69E+03	-8.51E+03	8.48E+03	-8.51E+04	8.48E+04

Table Q-146. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	24.1	-1.52E+03	1.49E+03	-1.47E+03	1.46E+03	-8.99E+04	8.61E+04
1/20	66.0	-4.46E+03	4.52E+03	-4.38E+03	4.40E+03	-8.89E+04	8.67E+04
1/15	98.9	-6.04E+03	6.32E+03	-5.92E+03	6.15E+03	-9.03E+04	9.07E+04
1/10	155.	-1.05E+04	1.08E+04	-1.04E+04	1.05E+04	-1.06E+05	1.03E+05

Table Q-147. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-9.30	-1.76E+03	1.75E+03	-1.75E+03	1.71E+03	-1.05E+05	1.03E+05
1/20	-12.0	-5.35E+03	5.50E+03	-5.33E+03	5.36E+03	-1.06E+05	1.07E+05
1/15	-16.4	-7.24E+03	7.45E+03	-7.22E+03	7.26E+03	-1.08E+05	1.09E+05
1/10	-25.9	-1.15E+04	1.18E+04	-1.15E+04	1.15E+04	-1.14E+05	1.15E+05

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Table Q–148. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-32.5	-1.38E+03	1.29E+03	-1.37E+03	1.28E+03	-8.04E+04	7.87E+04
1/20	40.2	-4.10E+03	3.92E+03	-4.06E+03	3.89E+03	-8.21E+04	7.70E+04
1/15	104.	-5.48E+03	5.22E+03	-5.43E+03	5.18E+03	-8.30E+04	7.62E+04
1/10	285.	-8.27E+03	7.80E+03	-8.18E+03	7.74E+03	-8.47E+04	7.46E+04

Table Q–149. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-71.0	-1.46E+03	1.24E+03	-1.44E+03	1.22E+03	-8.24E+04	7.78E+04
1/20	3.22	-3.94E+03	3.54E+03	-3.91E+03	3.52E+03	-7.82E+04	7.03E+04
1/15	64.9	-4.97E+03	4.50E+03	-4.93E+03	4.48E+03	-7.48E+04	6.62E+04
1/10	238.	-6.97E+03	6.28E+03	-6.90E+03	6.24E+03	-7.14E+04	6.00E+04

Table Q–150. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	157.	-1.79E+03	2.23E+03	-1.77E+03	2.21E+03	-1.15E+05	1.23E+05
1/20	551.	-5.25E+03	6.60E+03	-5.18E+03	6.48E+03	-1.15E+05	1.19E+05
1/15	700.	-6.77E+03	8.26E+03	-6.63E+03	8.15E+03	-1.10E+05	1.12E+05
1/10	1.06E+03	-9.20E+03	1.67E+04	-9.08E+03	1.27E+04	-1.01E+05	1.16E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–151. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–152. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

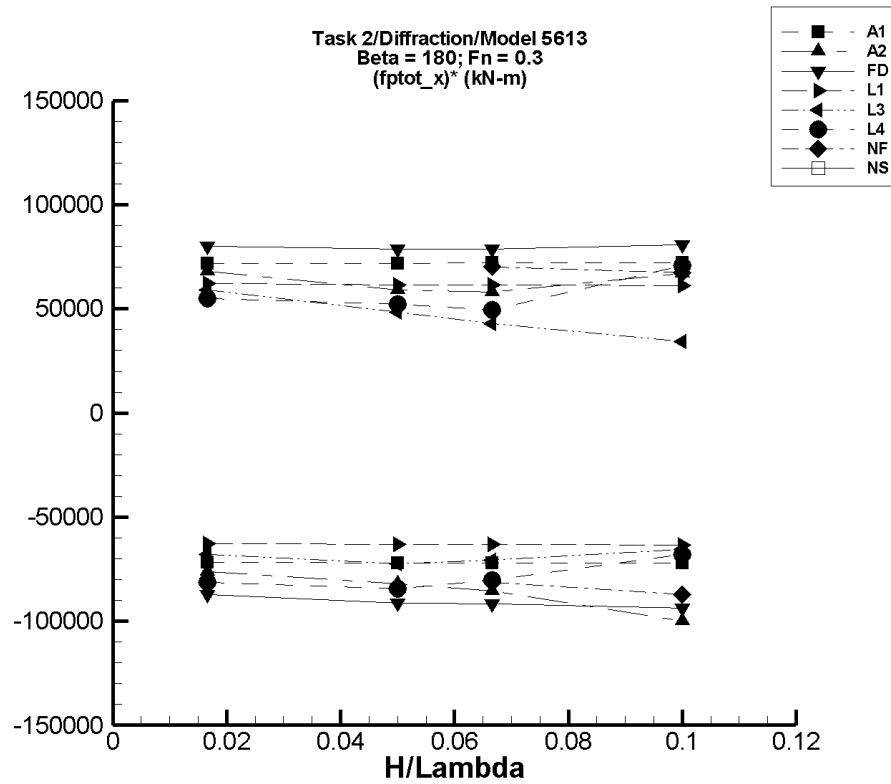


Figure Q–20. Minimum and maximum of filtered  $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q–153. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-2.21	-1.24E+03	1.23E+03	-1.20E+03	1.19E+03	-7.18E+04	7.18E+04
1/20	-6.64	-3.72E+03	3.70E+03	-3.60E+03	3.59E+03	-7.19E+04	7.19E+04
1/15	-8.86	-4.96E+03	4.94E+03	-4.81E+03	4.79E+03	-7.20E+04	7.20E+04
1/10	-13.3	-7.45E+03	7.42E+03	-7.22E+03	7.19E+03	-7.20E+04	7.20E+04

Table Q–154. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	22.2	-1.31E+03	1.20E+03	-1.25E+03	1.15E+03	-7.62E+04	6.79E+04
1/20	71.8	-4.25E+03	3.10E+03	-4.03E+03	3.03E+03	-8.20E+04	5.92E+04
1/15	97.0	-6.00E+03	3.98E+03	-5.59E+03	3.96E+03	-8.54E+04	5.79E+04
1/10	426.	-1.04E+04	7.32E+03	-9.58E+03	7.13E+03	-1.00E+05	6.71E+04

Table Q–155. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-7.23	-1.49E+03	1.36E+03	-1.46E+03	1.33E+03	-8.71E+04	8.00E+04
1/20	4.09	-4.86E+03	4.04E+03	-4.57E+03	3.94E+03	-9.14E+04	7.87E+04
1/15	12.7	-6.46E+03	5.40E+03	-6.10E+03	5.25E+03	-9.17E+04	7.86E+04
1/10	29.9	-9.95E+03	8.45E+03	-9.34E+03	8.12E+03	-9.37E+04	8.09E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–156. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-24.1	-1.08E+03	1.02E+03	-1.07E+03	1.01E+03	-6.26E+04	6.20E+04
1/20	103.	-3.08E+03	3.22E+03	-3.05E+03	3.19E+03	-6.30E+04	6.17E+04
1/15	212.	-4.05E+03	4.36E+03	-4.00E+03	4.31E+03	-6.32E+04	6.15E+04
1/10	524.	-5.91E+03	6.70E+03	-5.83E+03	6.63E+03	-6.36E+04	6.11E+04

Table Q–157. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	-62.4	-1.21E+03	930.	-1.19E+03	920.	-6.78E+04	5.90E+04
1/20	75.2	-3.63E+03	2.51E+03	-3.54E+03	2.50E+03	-7.24E+04	4.84E+04
1/15	188.	-4.63E+03	3.07E+03	-4.51E+03	3.05E+03	-7.05E+04	4.29E+04
1/10	501.	-6.23E+03	3.97E+03	-6.06E+03	3.95E+03	-6.56E+04	3.45E+04

Table Q–158. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{ptot}}$ Max. (kN)	Filtered Min. (kN)	$(F_x^{\text{ptot}})^*$ Max. (kN)
1/60	117.	-1.40E+03	1.22E+03	-1.24E+03	1.03E+03	-8.15E+04	5.50E+04
1/20	343.	-4.48E+03	3.99E+03	-3.88E+03	2.95E+03	-8.45E+04	5.21E+04
1/15	483.	-5.33E+03	5.06E+03	-4.86E+03	3.78E+03	-8.02E+04	4.94E+04
1/10	932.	-6.33E+03	1.63E+04	-5.87E+03	8.01E+03	-6.81E+04	7.08E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q–159. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	-1.05E+03	-5.32E+03	2.61E+03	-5.04E+03	2.46E+03	-7.98E+04	7.01E+04
1/15	-1.46E+03	-7.28E+03	3.33E+03	-6.88E+03	3.23E+03	-8.14E+04	7.02E+04
1/10	-2.09E+03	-1.09E+04	4.75E+03	-1.08E+04	4.66E+03	-8.72E+04	6.75E+04

Table Q–160. Minimum and Maximum of Variables  $F_x^{\text{ptot}}$  and  $(F_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{ptot}}$		Filtered $F_x^{\text{ptot}}$		Filtered $(F_x^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

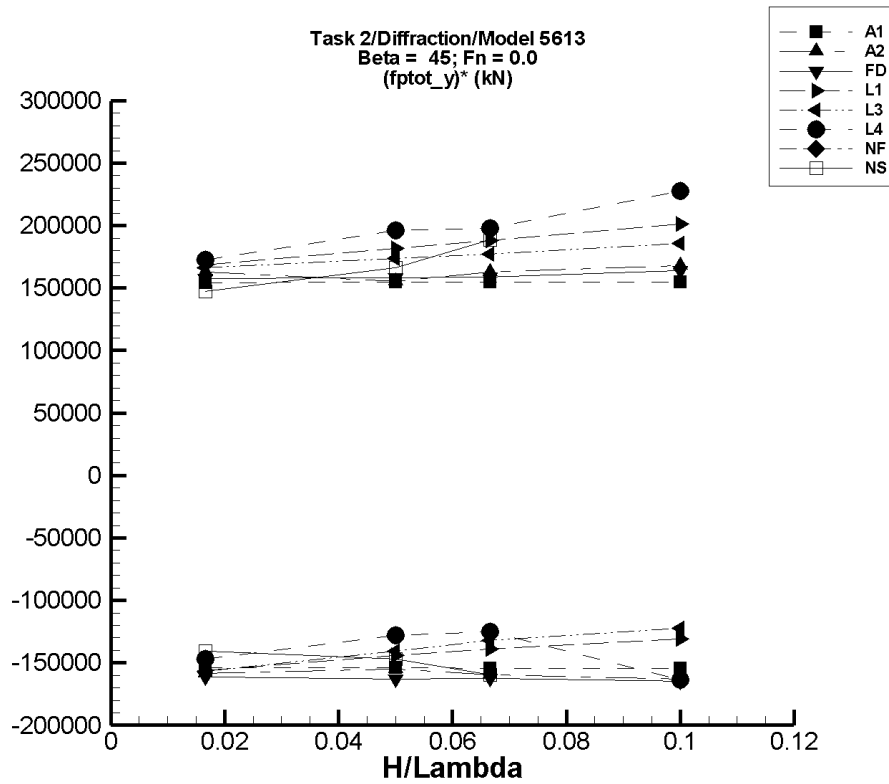


Figure Q-21. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-161. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-3.26	-2.59E+03	2.59E+03	-2.57E+03	2.57E+03	-1.54E+05	1.54E+05
1/20	-9.82	-7.79E+03	7.79E+03	-7.72E+03	7.72E+03	-1.54E+05	1.55E+05
1/15	-13.1	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-1.54E+05	1.55E+05
1/10	-19.7	-1.56E+04	1.56E+04	-1.55E+04	1.55E+04	-1.54E+05	1.55E+05

Table Q-162. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-4.17	-2.68E+03	2.74E+03	-2.64E+03	2.71E+03	-1.58E+05	1.63E+05
1/20	10.0	-7.80E+03	1.27E+04	-7.74E+03	7.77E+03	-1.55E+05	1.55E+05
1/15	25.7	-1.07E+04	1.10E+04	-1.06E+04	1.09E+04	-1.59E+05	1.63E+05
1/10	465.	-1.78E+04	2.67E+04	-1.58E+04	1.72E+04	-1.63E+05	1.68E+05

Table Q-163. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.874	-2.72E+03	2.66E+03	-2.69E+03	2.63E+03	-1.62E+05	1.58E+05
1/20	-7.60	-8.24E+03	7.97E+03	-8.17E+03	7.90E+03	-1.63E+05	1.58E+05
1/15	-16.2	-1.09E+04	1.06E+04	-1.08E+04	1.06E+04	-1.62E+05	1.59E+05
1/10	-31.8	-1.67E+04	1.63E+04	-1.65E+04	1.63E+04	-1.65E+05	1.64E+05

Table Q-164. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-201.	-2.81E+03	2.62E+03	-2.80E+03	2.61E+03	-1.56E+05	1.69E+05
1/20	-1.81E+03	-9.03E+03	7.32E+03	-9.01E+03	7.27E+03	-1.44E+05	1.82E+05
1/15	-3.21E+03	-1.25E+04	9.39E+03	-1.25E+04	9.33E+03	-1.39E+05	1.88E+05
1/10	-7.22E+03	-2.04E+04	1.30E+04	-2.03E+04	1.29E+04	-1.31E+05	2.01E+05

Table Q-165. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-201.	-2.82E+03	2.58E+03	-2.82E+03	2.57E+03	-1.57E+05	1.66E+05
1/20	-1.81E+03	-8.86E+03	6.89E+03	-8.84E+03	6.88E+03	-1.41E+05	1.74E+05
1/15	-3.22E+03	-1.20E+04	8.59E+03	-1.20E+04	8.59E+03	-1.32E+05	1.77E+05
1/10	-7.22E+03	-1.95E+04	1.14E+04	-1.94E+04	1.14E+04	-1.22E+05	1.86E+05

Table Q-166. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	78.1	-2.46E+03	3.03E+03	-2.37E+03	2.95E+03	-1.47E+05	1.72E+05
1/20	812.	-6.15E+03	1.10E+04	-5.60E+03	1.06E+04	-1.28E+05	1.96E+05
1/15	1.72E+03	-7.56E+03	1.55E+04	-6.62E+03	1.49E+04	-1.25E+05	1.98E+05
1/10	3.57E+03	-1.40E+04	2.78E+04	-1.28E+04	2.63E+04	-1.64E+05	2.28E+05

Table Q-167. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-168. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	133.	-2.24E+03	2.60E+03	-2.21E+03	2.59E+03	-1.41E+05	1.47E+05
1/20	1.13E+03	-6.34E+03	1.03E+04	-6.22E+03	9.46E+03	-1.47E+05	1.67E+05
1/15	1.97E+03	-8.76E+03	1.49E+04	-8.67E+03	1.45E+04	-1.60E+05	1.89E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

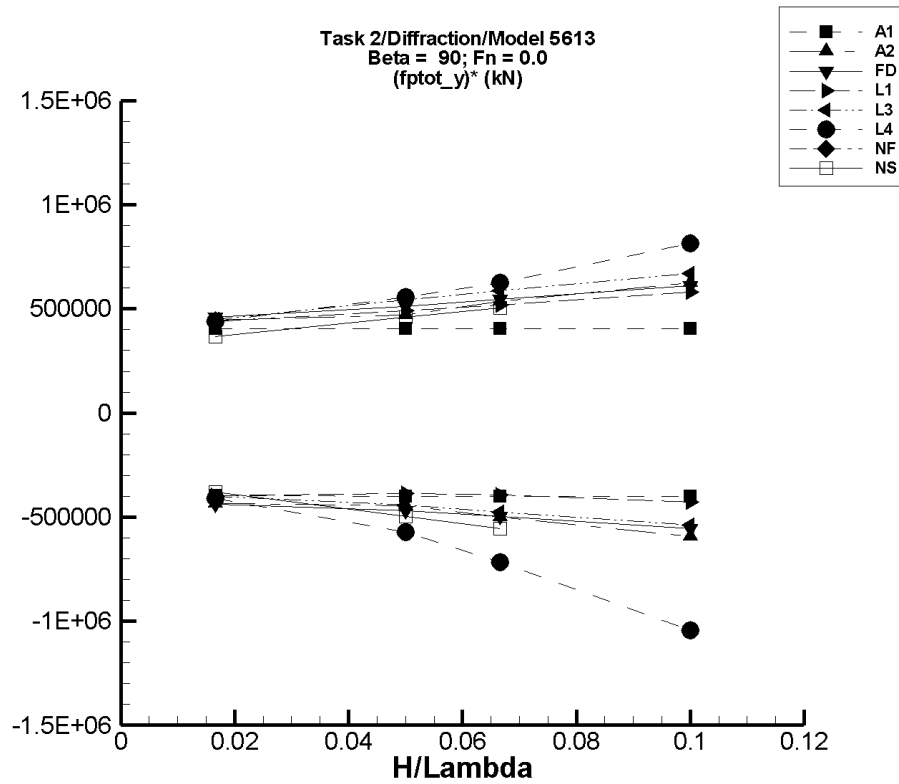


Figure Q-22. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-169. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-5.68	-6.75E+03	6.73E+03	-6.64E+03	6.74E+03	-3.98E+05	4.05E+05
1/20	-17.1	-2.03E+04	2.02E+04	-2.00E+04	2.03E+04	-3.99E+05	4.06E+05
1/15	-22.8	-2.71E+04	2.70E+04	-2.67E+04	2.71E+04	-4.00E+05	4.06E+05
1/10	-34.2	-4.06E+04	4.05E+04	-4.00E+04	4.06E+04	-4.00E+05	4.06E+05

Table Q-170. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-8.22	-7.41E+03	7.57E+03	-7.27E+03	7.43E+03	-4.36E+05	4.46E+05
1/20	69.4	-2.27E+04	2.37E+04	-2.22E+04	2.36E+04	-4.45E+05	4.70E+05
1/15	5.36	-3.44E+04	3.67E+04	-3.34E+04	3.56E+04	-5.02E+05	5.34E+05
1/10	68.1	-6.08E+04	6.42E+04	-5.94E+04	6.27E+04	-5.95E+05	6.27E+05



Table Q–171. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.12	-7.40E+03	7.73E+03	-7.33E+03	7.64E+03	-4.39E+05	4.59E+05
1/20	-22.2	-2.39E+04	2.61E+04	-2.36E+04	2.56E+04	-4.71E+05	5.13E+05
1/15	-35.7	-3.37E+04	3.70E+04	-3.31E+04	3.63E+04	-4.96E+05	5.45E+05
1/10	-108.	-5.68E+04	6.25E+04	-5.55E+04	6.11E+04	-5.54E+05	6.12E+05

Table Q–172. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-383.	-6.99E+03	6.94E+03	-6.97E+03	6.92E+03	-3.95E+05	4.38E+05
1/20	-3.43E+03	-2.28E+04	2.13E+04	-2.27E+04	2.11E+04	-3.86E+05	4.91E+05
1/15	-6.10E+03	-3.26E+04	2.88E+04	-3.24E+04	2.86E+04	-3.95E+05	5.20E+05
1/10	-1.37E+04	-5.69E+04	4.46E+04	-5.66E+04	4.42E+04	-4.29E+05	5.79E+05

Table Q-173. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-382.	-7.09E+03	7.16E+03	-7.07E+03	7.12E+03	-4.01E+05	4.50E+05
1/20	-3.42E+03	-2.57E+04	2.38E+04	-2.56E+04	2.36E+04	-4.43E+05	5.41E+05
1/15	-6.08E+03	-3.80E+04	3.33E+04	-3.77E+04	3.30E+04	-4.75E+05	5.86E+05
1/10	-1.36E+04	-6.78E+04	5.41E+04	-6.74E+04	5.35E+04	-5.37E+05	6.71E+05

Table Q-174. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	252.	-6.81E+03	7.99E+03	-6.57E+03	7.57E+03	-4.09E+05	4.39E+05
1/20	1.81E+03	-2.75E+04	3.08E+04	-2.69E+04	2.96E+04	-5.74E+05	5.56E+05
1/15	3.31E+03	-4.54E+04	4.66E+04	-4.44E+04	4.49E+04	-7.16E+05	6.24E+05
1/10	5.63E+03	-1.01E+05	8.98E+04	-9.87E+04	8.71E+04	-1.04E+06	8.15E+05

Table Q-175. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-176. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	204.	-6.22E+03	6.42E+03	-6.14E+03	6.33E+03	-3.80E+05	3.68E+05
1/20	1.71E+03	-2.41E+04	2.58E+04	-2.32E+04	2.47E+04	-4.98E+05	4.60E+05
1/15	2.94E+03	-3.51E+04	3.73E+04	-3.42E+04	3.65E+04	-5.57E+05	5.03E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

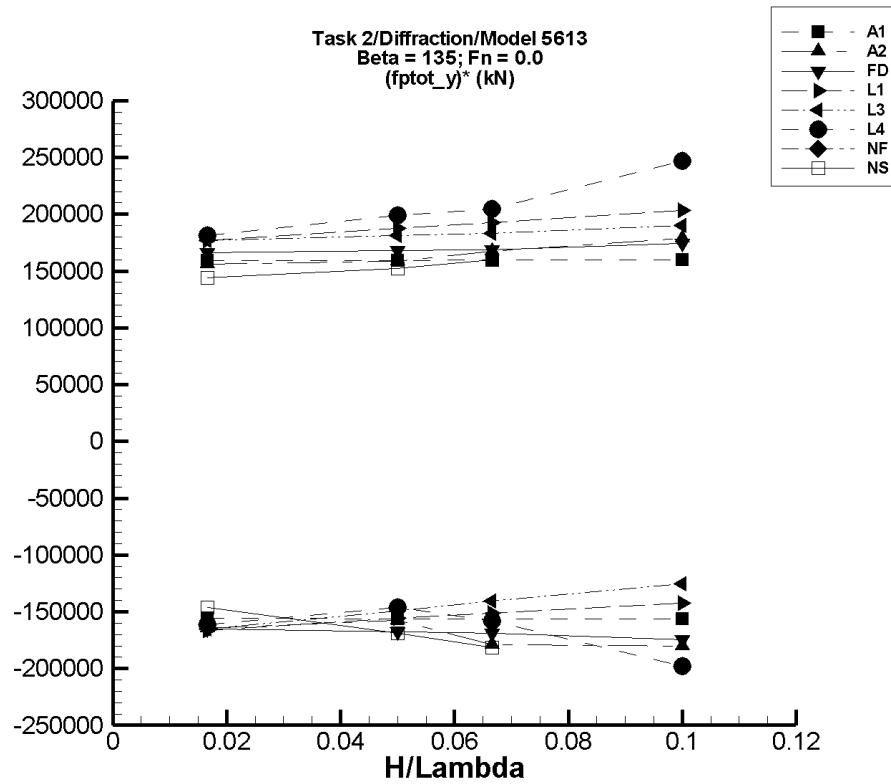


Figure Q-23. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-177. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.903	-2.64E+03	2.67E+03	-2.60E+03	2.65E+03	-1.56E+05	1.59E+05
1/20	-2.72	-7.95E+03	8.02E+03	-7.82E+03	7.97E+03	-1.56E+05	1.59E+05
1/15	-3.63	-1.06E+04	1.07E+04	-1.04E+04	1.06E+04	-1.56E+05	1.60E+05
1/10	-5.44	-1.59E+04	1.61E+04	-1.57E+04	1.60E+04	-1.56E+05	1.60E+05

Table Q-178. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-7.35	-2.83E+03	2.63E+03	-2.75E+03	2.59E+03	-1.64E+05	1.56E+05
1/20	8.89	-8.35E+03	7.95E+03	-7.85E+03	7.95E+03	-1.57E+05	1.59E+05
1/15	-134.	-1.86E+04	1.10E+04	-1.21E+04	1.10E+04	-1.79E+05	1.68E+05
1/10	-69.1	-1.83E+04	1.78E+04	-1.81E+04	1.78E+04	-1.80E+05	1.79E+05

Table Q–179. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.972	-2.78E+03	2.80E+03	-2.75E+03	2.77E+03	-1.65E+05	1.66E+05
1/20	-1.26	-8.48E+03	8.48E+03	-8.40E+03	8.39E+03	-1.68E+05	1.68E+05
1/15	3.31	-1.14E+04	1.14E+04	-1.13E+04	1.12E+04	-1.69E+05	1.69E+05
1/10	22.2	-1.76E+04	1.76E+04	-1.74E+04	1.75E+04	-1.75E+05	1.74E+05

Table Q–180. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-181.	-2.96E+03	2.78E+03	-2.95E+03	2.77E+03	-1.66E+05	1.77E+05
1/20	-1.61E+03	-9.43E+03	7.81E+03	-9.41E+03	7.76E+03	-1.56E+05	1.88E+05
1/15	-2.86E+03	-1.30E+04	1.01E+04	-1.29E+04	1.00E+04	-1.51E+05	1.93E+05
1/10	-6.43E+03	-2.07E+04	1.40E+04	-2.07E+04	1.39E+04	-1.43E+05	2.04E+05

Table Q-181. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-181.	-2.94E+03	2.78E+03	-2.93E+03	2.77E+03	-1.65E+05	1.77E+05
1/20	-1.61E+03	-9.08E+03	7.49E+03	-9.07E+03	7.45E+03	-1.49E+05	1.81E+05
1/15	-2.86E+03	-1.22E+04	9.41E+03	-1.22E+04	9.35E+03	-1.40E+05	1.83E+05
1/10	-6.43E+03	-1.90E+04	1.26E+04	-1.90E+04	1.26E+04	-1.25E+05	1.90E+05

Table Q-182. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	103.	-2.63E+03	3.17E+03	-2.59E+03	3.12E+03	-1.61E+05	1.81E+05
1/20	917.	-6.70E+03	1.16E+04	-6.41E+03	1.09E+04	-1.47E+05	1.99E+05
1/15	1.82E+03	-9.39E+03	1.60E+04	-8.75E+03	1.55E+04	-1.59E+05	2.05E+05
1/10	3.83E+03	-2.02E+04	2.98E+04	-1.60E+04	2.85E+04	-1.98E+05	2.47E+05

Table Q–183. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–184. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	141.	-2.34E+03	2.57E+03	-2.30E+03	2.54E+03	-1.46E+05	1.44E+05
1/20	1.18E+03	-8.03E+03	8.90E+03	-7.25E+03	8.79E+03	-1.69E+05	1.52E+05
1/15	2.05E+03	-1.02E+04	1.28E+04	-1.00E+04	1.27E+04	-1.81E+05	1.60E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

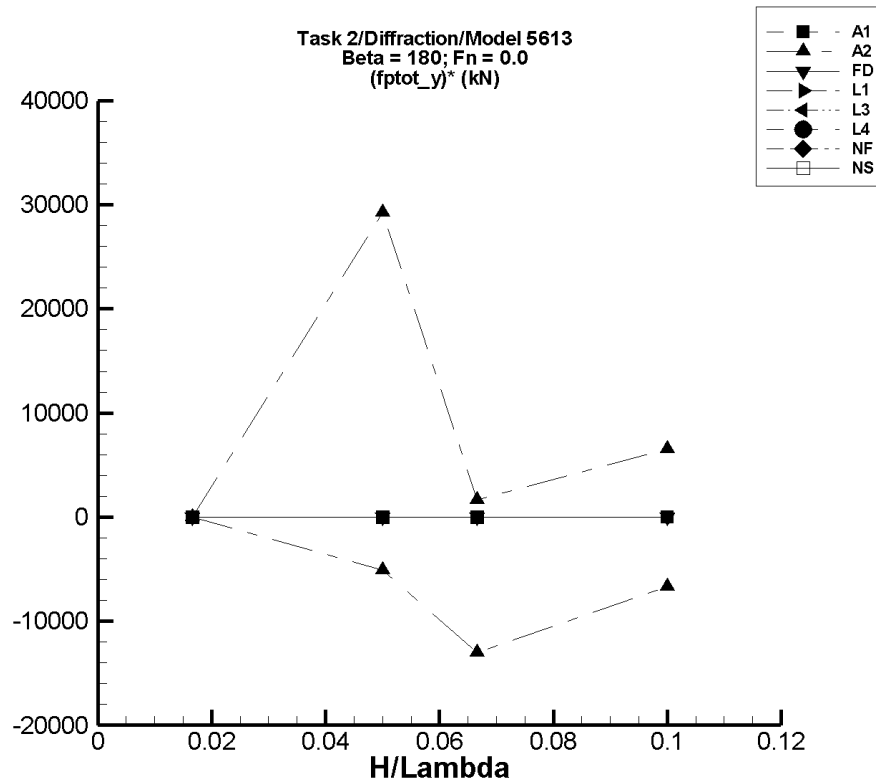


Figure Q-24. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–185. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.90E-05	-3.08E-03	3.56E-03	-3.05E-03	2.60E-03	-0.185	0.154
1/20	8.73E-05	-9.25E-03	1.07E-02	-9.16E-03	7.83E-03	-0.185	0.155
1/15	1.17E-04	-1.24E-02	1.43E-02	-1.22E-02	1.05E-02	-0.185	0.155
1/10	1.75E-04	-1.85E-02	2.15E-02	-1.84E-02	1.57E-02	-0.185	0.155

Table Q–186. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	4.03E-05	-2.76E-03	2.45E-03	-2.71E-03	2.33E-03	-0.165	0.137
1/20	113.	-8.45E-03	1.18E+04	-143.	1.58E+03	-5.12E+03	2.93E+04
1/15	-31.4	-6.75E+03	182.	-900.	76.9	-1.30E+04	1.63E+03
1/10	9.49	-4.88E+03	4.85E+03	-657.	660.	-6.66E+03	6.51E+03

Table Q–187. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.05E-05	-1.08E-03	1.31E-03	-2.69E-04	2.27E-04	-1.55E-02	1.43E-02
1/20	-2.43E-05	-3.19E-03	3.79E-03	-7.94E-04	8.90E-04	-1.54E-02	1.83E-02
1/15	-3.64E-05	-4.24E-03	4.99E-03	-1.07E-03	1.33E-03	-1.56E-02	2.05E-02
1/10	-4.74E-05	-6.30E-03	7.61E-03	-1.60E-03	2.00E-03	-1.55E-02	2.04E-02

Table Q–188. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–189. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–190. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–191. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–192. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-5.12E-05	-2.35E-03	2.58E-03	-9.03E-04	8.32E-04	-5.11E-02	5.30E-02
1/20	-7.65E-05	-1.22E-02	1.01E-02	-4.09E-03	3.77E-03	-8.03E-02	7.69E-02
1/15	-3.30E-04	-7.08E-02	7.54E-02	-3.49E-03	4.84E-03	-4.75E-02	7.75E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

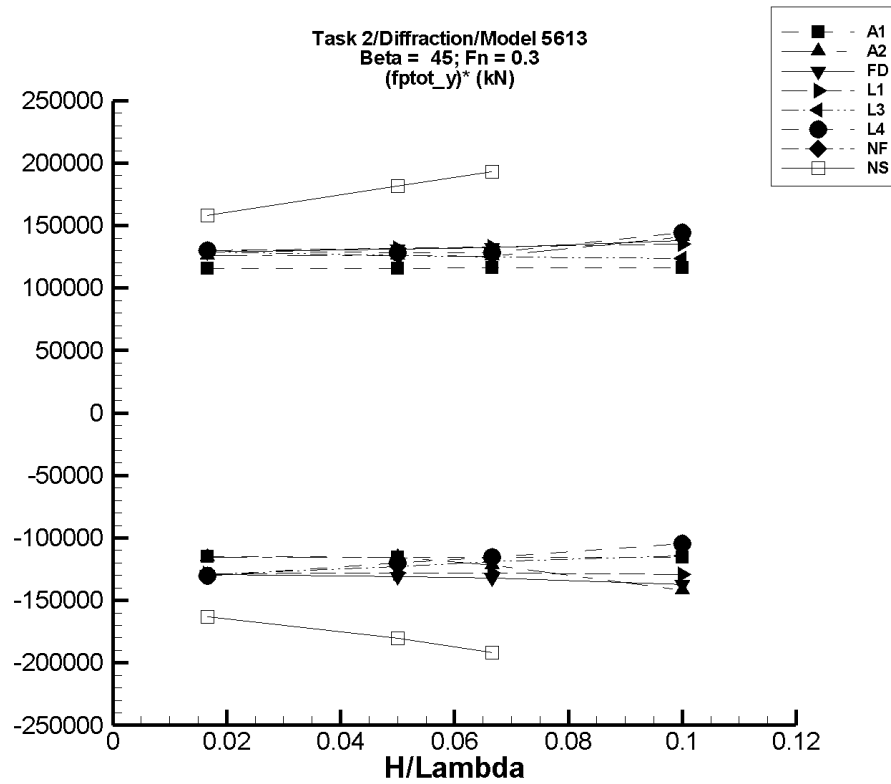


Figure Q-25. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–193. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.890	-1.92E+03	1.93E+03	-1.92E+03	1.93E+03	-1.15E+05	1.16E+05
1/20	2.68	-5.78E+03	5.80E+03	-5.76E+03	5.80E+03	-1.15E+05	1.16E+05
1/15	3.57	-7.71E+03	7.74E+03	-7.69E+03	7.74E+03	-1.15E+05	1.16E+05
1/10	5.36	-1.16E+04	1.16E+04	-1.15E+04	1.16E+04	-1.15E+05	1.16E+05

Table Q–194. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-3.44	-1.94E+03	2.10E+03	-1.93E+03	2.09E+03	-1.16E+05	1.26E+05
1/20	39.0	-5.74E+03	1.05E+04	-5.73E+03	6.35E+03	-1.15E+05	1.26E+05
1/15	43.4	-8.09E+03	9.58E+03	-8.08E+03	8.41E+03	-1.22E+05	1.25E+05
1/10	379.	-1.34E+04	3.10E+04	-1.38E+04	1.45E+04	-1.42E+05	1.41E+05

Table Q–195. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.142	-2.16E+03	2.14E+03	-2.16E+03	2.15E+03	-1.29E+05	1.29E+05
1/20	-0.545	-6.56E+03	6.58E+03	-6.55E+03	6.57E+03	-1.31E+05	1.31E+05
1/15	-0.797	-8.81E+03	8.86E+03	-8.79E+03	8.84E+03	-1.32E+05	1.33E+05
1/10	2.61	-1.37E+04	1.39E+04	-1.37E+04	1.38E+04	-1.37E+05	1.38E+05

Table Q–196. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-195.	-2.34E+03	1.97E+03	-2.34E+03	1.97E+03	-1.29E+05	1.30E+05
1/20	-1.76E+03	-8.18E+03	4.82E+03	-8.18E+03	4.83E+03	-1.28E+05	1.32E+05
1/15	-3.13E+03	-1.17E+04	5.72E+03	-1.17E+04	5.71E+03	-1.28E+05	1.33E+05
1/10	-7.04E+03	-2.00E+04	6.49E+03	-1.99E+04	6.47E+03	-1.29E+05	1.35E+05



Table Q–197. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-195.	-2.35E+03	1.95E+03	-2.35E+03	1.95E+03	-1.29E+05	1.29E+05
1/20	-1.76E+03	-7.92E+03	4.56E+03	-7.91E+03	4.55E+03	-1.23E+05	1.26E+05
1/15	-3.13E+03	-1.11E+04	5.19E+03	-1.11E+04	5.18E+03	-1.19E+05	1.25E+05
1/10	-7.04E+03	-1.85E+04	5.31E+03	-1.85E+04	5.30E+03	-1.14E+05	1.23E+05

Table Q–198. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	25.8	-2.23E+03	2.21E+03	-2.15E+03	2.19E+03	-1.30E+05	1.30E+05
1/20	556.	-5.94E+03	7.06E+03	-5.46E+03	6.97E+03	-1.20E+05	1.28E+05
1/15	1.29E+03	-7.75E+03	1.00E+04	-6.42E+03	9.85E+03	-1.16E+05	1.28E+05
1/10	3.02E+03	-9.96E+03	2.93E+04	-7.46E+03	1.75E+04	-1.05E+05	1.44E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–199. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–200. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	78.4	-2.66E+03	2.75E+03	-2.64E+03	2.71E+03	-1.63E+05	1.58E+05
1/20	699.	-8.43E+03	1.02E+04	-8.31E+03	9.77E+03	-1.80E+05	1.81E+05
1/15	1.17E+03	-1.18E+04	1.48E+04	-1.16E+04	1.40E+04	-1.92E+05	1.93E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

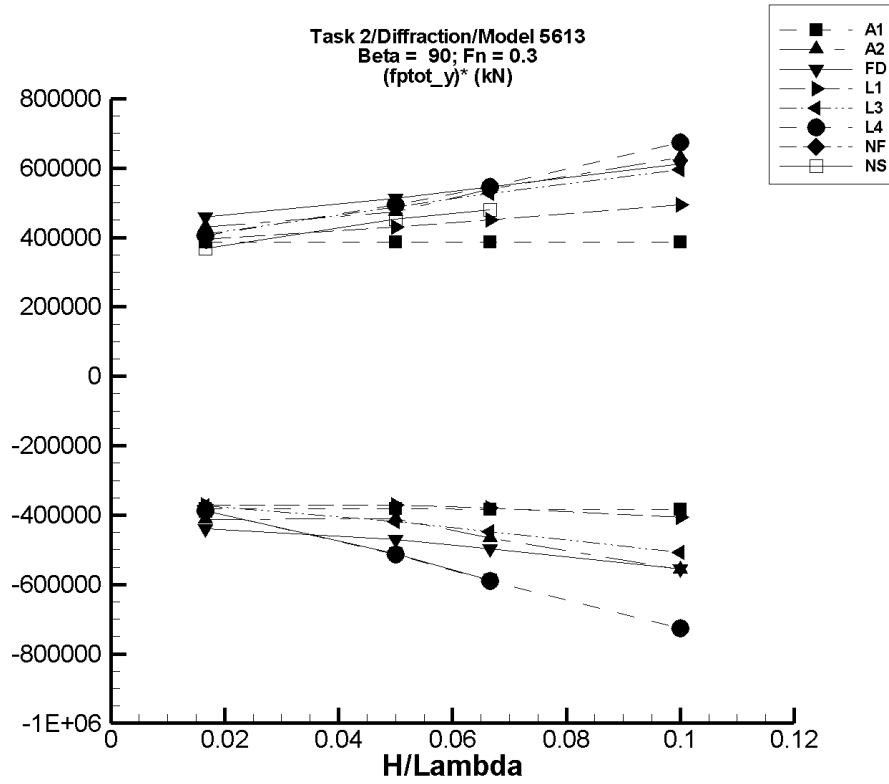


Figure Q-26. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–201. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-3.80	-6.45E+03	6.50E+03	-6.36E+03	6.43E+03	-3.82E+05	3.86E+05
1/20	-11.4	-1.94E+04	1.95E+04	-1.91E+04	1.93E+04	-3.83E+05	3.87E+05
1/15	-15.2	-2.59E+04	2.61E+04	-2.55E+04	2.58E+04	-3.83E+05	3.87E+05
1/10	-22.9	-3.89E+04	3.91E+04	-3.83E+04	3.87E+04	-3.83E+05	3.87E+05

Table Q–202. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-6.35	-7.08E+03	7.33E+03	-6.90E+03	7.17E+03	-4.13E+05	4.30E+05
1/20	75.1	-2.11E+04	2.42E+04	-2.04E+04	2.37E+04	-4.10E+05	4.73E+05
1/15	17.3	-3.18E+04	3.72E+04	-3.10E+04	3.59E+04	-4.65E+05	5.39E+05
1/10	79.4	-5.71E+04	6.48E+04	-5.57E+04	6.32E+04	-5.58E+05	6.31E+05

Table Q–203. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.12	-7.40E+03	7.73E+03	-7.33E+03	7.64E+03	-4.39E+05	4.59E+05
1/20	-22.2	-2.39E+04	2.61E+04	-2.36E+04	2.56E+04	-4.71E+05	5.13E+05
1/15	-35.7	-3.37E+04	3.70E+04	-3.31E+04	3.63E+04	-4.96E+05	5.45E+05
1/10	-108.	-5.68E+04	6.24E+04	-5.55E+04	6.11E+04	-5.54E+05	6.12E+05

Table Q–204. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-214.	-6.43E+03	6.39E+03	-6.41E+03	6.36E+03	-3.72E+05	3.95E+05
1/20	-1.92E+03	-2.06E+04	1.97E+04	-2.05E+04	1.96E+04	-3.72E+05	4.31E+05
1/15	-3.41E+03	-2.88E+04	2.68E+04	-2.87E+04	2.67E+04	-3.80E+05	4.51E+05
1/10	-7.66E+03	-4.86E+04	4.20E+04	-4.83E+04	4.17E+04	-4.07E+05	4.94E+05

Table Q–205. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-214.	-6.46E+03	6.66E+03	-6.43E+03	6.62E+03	-3.73E+05	4.10E+05
1/20	-1.91E+03	-2.30E+04	2.27E+04	-2.28E+04	2.25E+04	-4.18E+05	4.88E+05
1/15	-3.38E+03	-3.35E+04	3.20E+04	-3.33E+04	3.17E+04	-4.49E+05	5.26E+05
1/10	-7.58E+03	-5.89E+04	5.26E+04	-5.84E+04	5.20E+04	-5.09E+05	5.96E+05

Table Q–206. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	202.	-6.46E+03	7.21E+03	-6.26E+03	6.95E+03	-3.88E+05	4.05E+05
1/20	1.92E+03	-2.41E+04	2.69E+04	-2.38E+04	2.66E+04	-5.15E+05	4.94E+05
1/15	3.65E+03	-3.63E+04	4.04E+04	-3.56E+04	4.00E+04	-5.89E+05	5.46E+05
1/10	8.23E+03	-6.57E+04	7.71E+04	-6.45E+04	7.56E+04	-7.27E+05	6.74E+05

Table Q–207. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–208. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	79.3	-6.49E+03	6.26E+03	-6.37E+03	6.21E+03	-3.87E+05	3.68E+05
1/20	464.	-2.68E+04	2.38E+04	-2.51E+04	2.31E+04	-5.12E+05	4.52E+05
1/15	265.	-3.98E+04	3.27E+04	-3.89E+04	3.23E+04	-5.88E+05	4.80E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

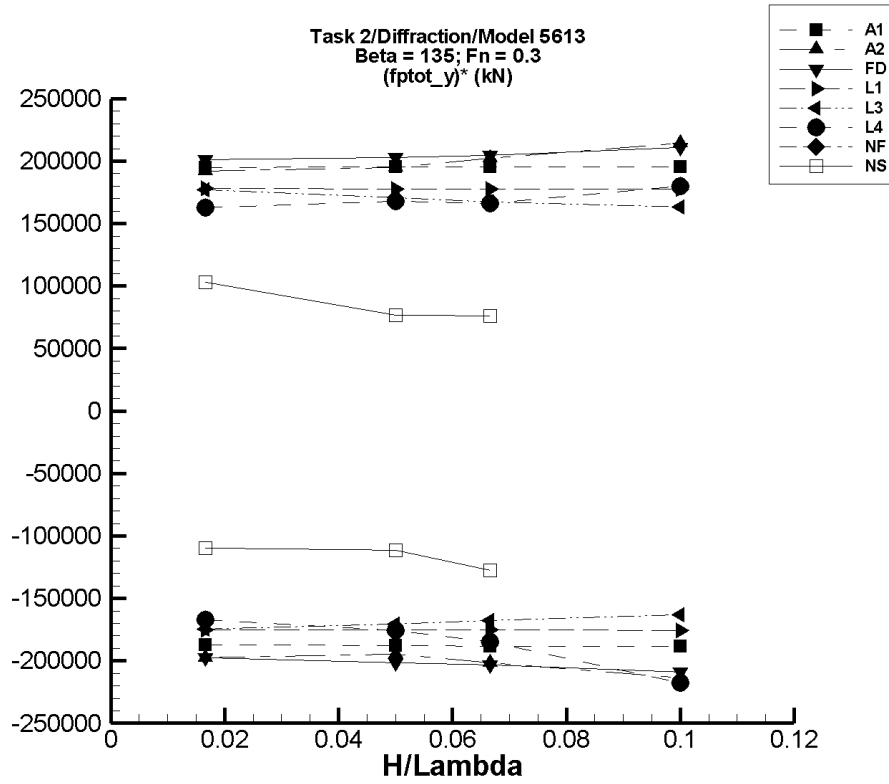


Figure Q-27. Minimum and maximum of filtered  $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q–209. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.336	-3.20E+03	3.23E+03	-3.13E+03	3.25E+03	-1.87E+05	1.95E+05
1/20	-1.01	-9.63E+03	9.72E+03	-9.40E+03	9.77E+03	-1.88E+05	1.95E+05
1/15	-1.35	-1.29E+04	1.30E+04	-1.25E+04	1.30E+04	-1.88E+05	1.96E+05
1/10	-2.02	-1.93E+04	1.95E+04	-1.88E+04	1.96E+04	-1.88E+05	1.96E+05

Table Q–210. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-6.64	-3.41E+03	3.19E+03	-3.30E+03	3.19E+03	-1.98E+05	1.92E+05
1/20	6.09	-1.03E+04	9.74E+03	-9.74E+03	9.75E+03	-1.95E+05	1.95E+05
1/15	-18.0	-1.37E+04	1.35E+04	-1.34E+04	1.35E+04	-2.01E+05	2.02E+05
1/10	-46.3	-2.22E+04	2.14E+04	-2.14E+04	2.14E+04	-2.14E+05	2.14E+05

Table Q–211. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.207	-3.37E+03	3.36E+03	-3.29E+03	3.35E+03	-1.97E+05	2.01E+05
1/20	4.94	-1.03E+04	1.02E+04	-1.01E+04	1.02E+04	-2.01E+05	2.03E+05
1/15	10.5	-1.39E+04	1.37E+04	-1.35E+04	1.37E+04	-2.03E+05	2.05E+05
1/10	21.5	-2.14E+04	2.11E+04	-2.09E+04	2.11E+04	-2.09E+05	2.11E+05

Table Q–212. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-124.	-3.07E+03	2.82E+03	-3.04E+03	2.84E+03	-1.75E+05	1.78E+05
1/20	-1.12E+03	-9.96E+03	7.70E+03	-9.88E+03	7.78E+03	-1.75E+05	1.78E+05
1/15	-1.99E+03	-1.38E+04	9.77E+03	-1.37E+04	9.87E+03	-1.75E+05	1.78E+05
1/10	-4.47E+03	-2.22E+04	1.32E+04	-2.20E+04	1.33E+04	-1.75E+05	1.78E+05

Table Q-213. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-124.	-3.05E+03	2.80E+03	-3.03E+03	2.82E+03	-1.74E+05	1.77E+05
1/20	-1.12E+03	-9.72E+03	7.34E+03	-9.64E+03	7.41E+03	-1.70E+05	1.71E+05
1/15	-1.99E+03	-1.32E+04	9.09E+03	-1.32E+04	9.18E+03	-1.67E+05	1.68E+05
1/10	-4.47E+03	-2.09E+04	1.18E+04	-2.08E+04	1.19E+04	-1.63E+05	1.64E+05

Table Q-214. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	131.	-2.70E+03	2.98E+03	-2.65E+03	2.84E+03	-1.67E+05	1.62E+05
1/20	1.43E+03	-7.52E+03	1.15E+04	-7.36E+03	9.83E+03	-1.76E+05	1.68E+05
1/15	2.85E+03	-9.69E+03	1.45E+04	-9.47E+03	1.39E+04	-1.85E+05	1.66E+05
1/10	6.80E+03	-1.96E+04	2.54E+04	-1.50E+04	2.48E+04	-2.17E+05	1.80E+05

Table Q–215. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–216. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	73.9	-1.88E+03	1.81E+03	-1.76E+03	1.80E+03	-1.10E+05	1.03E+05
1/20	465.	-6.26E+03	4.37E+03	-5.10E+03	4.30E+03	-1.11E+05	7.67E+04
1/15	836.	-7.91E+03	7.67E+03	-7.66E+03	5.90E+03	-1.27E+05	7.60E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

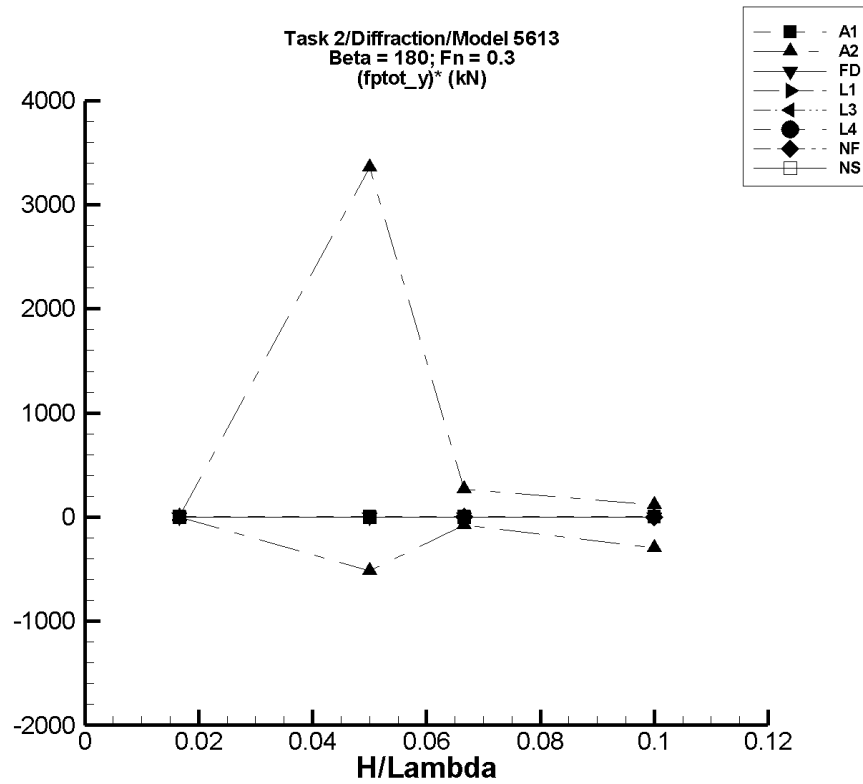


Figure Q-28. Minimum and maximum of filtered  $(F_y^{ptot} - \langle F_y^{ptot} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-217. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	1.95E-04	-5.97E-02	5.95E-02	-5.76E-02	5.76E-02	-3.47	3.45
1/20	5.85E-04	-0.180	0.179	-0.173	0.173	-3.48	3.45
1/15	7.81E-04	-0.240	0.239	-0.231	0.231	-3.48	3.46
1/10	1.17E-03	-0.359	0.358	-0.347	0.347	-3.48	3.46

Table Q-218. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.03E-04	-6.12E-02	6.08E-02	-5.90E-02	5.89E-02	-3.55	3.52
1/20	10.5	-0.184	1.34E+03	-15.5	178.	-518.	3.36E+03
1/15	2.99	-0.247	157.	-2.00	20.9	-74.9	269.
1/10	-3.61	-251.	45.9	-33.1	8.34	-295.	120.

Table Q–219. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	1.65E-05	-1.52E-03	1.71E-03	-9.05E-04	1.43E-03	-5.53E-02	8.49E-02
1/20	-4.09E-05	-4.40E-03	4.90E-03	-2.66E-03	4.13E-03	-5.25E-02	8.34E-02
1/15	-3.46E-05	-5.96E-03	6.70E-03	-3.47E-03	5.61E-03	-5.16E-02	8.46E-02
1/10	1.76E-04	-8.91E-03	1.11E-02	-5.77E-03	8.33E-03	-5.94E-02	8.15E-02

Table Q–220. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>F_y^{\text{ptot}}</math></b>		<b>Filtered <math>(F_y^{\text{ptot}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–221. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–222. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



TASK 2/DIFFRACTION/MODEL 5613

Table Q–223. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case  
(NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$   
,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	-3.04E-12	-2.42E-11	1.41E-11	-1.51E-11	4.27E-12	-2.42E-10	1.46E-10
1/15	-3.26E-12	-2.15E-11	1.50E-11	-1.79E-11	8.05E-12	-2.19E-10	1.70E-10
1/10	9.98E-12	-5.13E-11	6.81E-11	-5.13E-11	4.91E-11	-6.12E-10	3.92E-10

Table Q–224. Minimum and Maximum of Variables  $F_y^{\text{ptot}}$  and  $(F_y^{\text{ptot}})^*$  for the Case  
(NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$  ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered $F_y^{\text{ptot}}$		Filtered $F_y^{\text{ptot}}$		Filtered $(F_y^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.28E-05	-1.63E-02	1.54E-02	-6.98E-04	1.69E-03	-4.33E-02	9.99E-02
1/20	-1.98E-04	-1.43E-02	1.36E-02	-4.77E-03	2.20E-03	-9.15E-02	4.80E-02
1/15	4.07E-04	-3.71E-02	3.76E-02	-1.55E-03	7.86E-03	-2.94E-02	0.112
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

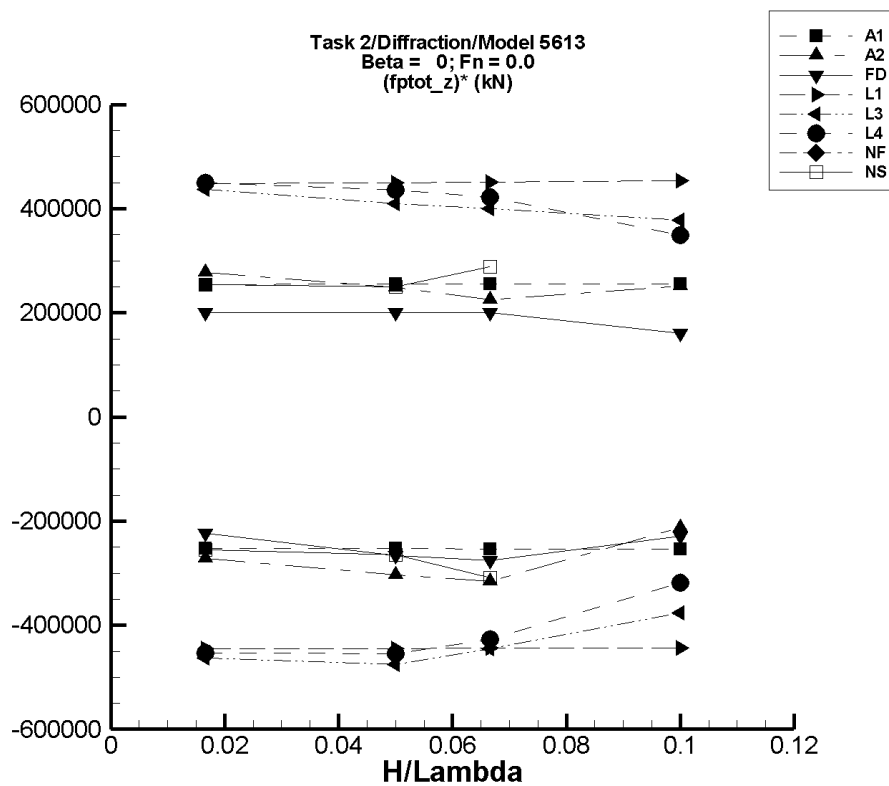


Figure Q-29. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-225. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.59E+04	8.16E+04	9.03E+04	8.17E+04	9.01E+04	-2.52E+05	2.54E+05
1/20	8.59E+04	7.29E+04	9.90E+04	7.32E+04	9.86E+04	-2.53E+05	2.55E+05
1/15	8.58E+04	6.85E+04	1.03E+05	6.89E+04	1.03E+05	-2.53E+05	2.55E+05
1/10	8.58E+04	5.98E+04	1.12E+05	6.05E+04	1.11E+05	-2.53E+05	2.55E+05

Table Q-226. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.56E+04	8.10E+04	9.03E+04	8.11E+04	9.02E+04	-2.71E+05	2.77E+05
1/20	8.76E+04	7.22E+04	1.00E+05	7.25E+04	1.00E+05	-3.03E+05	2.49E+05
1/15	8.96E+04	6.78E+04	1.05E+05	6.85E+04	1.05E+05	-3.16E+05	2.26E+05
1/10	9.17E+04	5.93E+04	1.17E+05	7.04E+04	1.17E+05	-2.13E+05	2.51E+05

Table Q-227. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.56E+04	8.18E+04	8.89E+04	8.19E+04	8.89E+04	-2.23E+05	2.00E+05
1/20	8.69E+04	7.35E+04	9.71E+04	7.36E+04	9.70E+04	-2.66E+05	2.01E+05
1/15	8.80E+04	6.93E+04	1.01E+05	6.96E+04	1.01E+05	-2.76E+05	2.00E+05
1/10	9.58E+04	7.26E+04	1.12E+05	7.29E+04	1.12E+05	-2.29E+05	1.61E+05

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Table Q–228. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.53E+04	7.78E+04	9.28E+04	7.78E+04	9.27E+04	-4.46E+05	4.48E+05
1/20	8.30E+04	6.07E+04	1.06E+05	6.08E+04	1.05E+05	-4.45E+05	4.50E+05
1/15	8.10E+04	5.13E+04	1.11E+05	5.14E+04	1.11E+05	-4.44E+05	4.51E+05
1/10	7.53E+04	3.07E+04	1.21E+05	3.09E+04	1.21E+05	-4.44E+05	4.54E+05

Table Q–229. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.49E+04	7.72E+04	9.22E+04	7.72E+04	9.22E+04	-4.63E+05	4.37E+05
1/20	8.09E+04	5.70E+04	1.02E+05	5.72E+04	1.01E+05	-4.75E+05	4.10E+05
1/15	7.83E+04	4.85E+04	1.05E+05	4.87E+04	1.05E+05	-4.45E+05	4.00E+05
1/10	7.57E+04	3.79E+04	1.14E+05	3.80E+04	1.14E+05	-3.77E+05	3.79E+05

Table Q–230. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.48E+04	7.72E+04	9.26E+04	7.73E+04	9.23E+04	-4.53E+05	4.50E+05
1/20	8.02E+04	5.64E+04	1.03E+05	5.75E+04	1.02E+05	-4.55E+05	4.35E+05
1/15	7.67E+04	4.76E+04	1.06E+05	4.83E+04	1.05E+05	-4.27E+05	4.22E+05
1/10	7.46E+04	3.90E+04	1.12E+05	4.27E+04	1.10E+05	-3.19E+05	3.50E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–231. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–232. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.40E+04	7.96E+04	8.82E+04	7.97E+04	8.82E+04	-2.55E+05	2.54E+05
1/20	7.84E+04	6.46E+04	9.12E+04	6.52E+04	9.09E+04	-2.64E+05	2.50E+05
1/15	7.21E+04	5.01E+04	9.18E+04	5.15E+04	9.13E+04	-3.09E+05	2.89E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

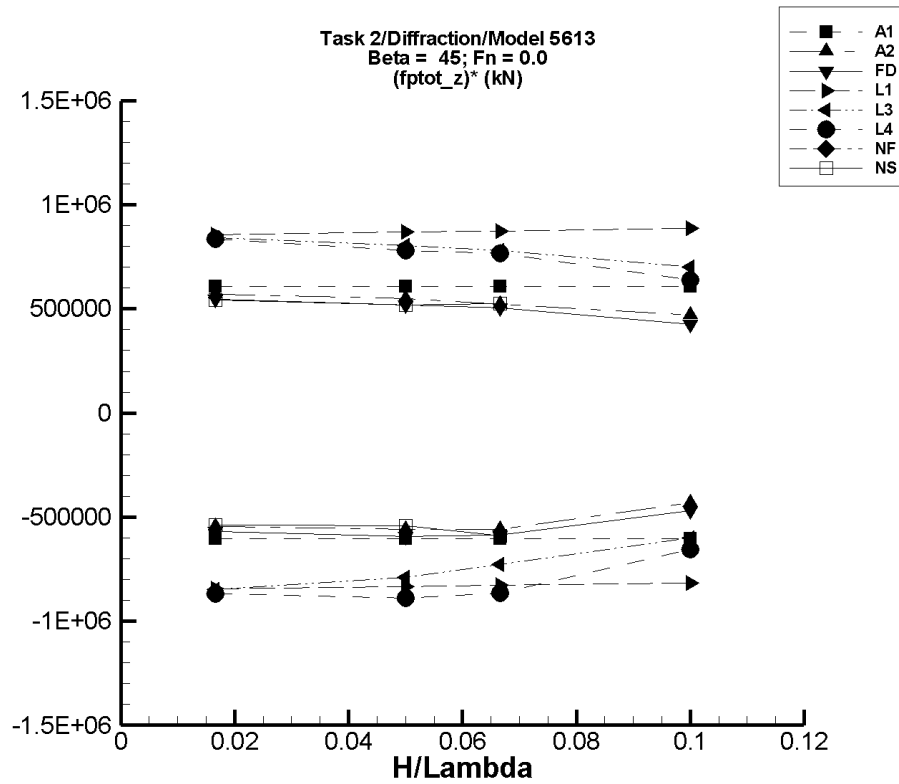


Figure Q–30. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-233. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.59E+04	7.57E+04	9.61E+04	7.58E+04	9.60E+04	-6.03E+05	6.07E+05
1/20	8.58E+04	5.53E+04	1.17E+05	5.56E+04	1.16E+05	-6.04E+05	6.09E+05
1/15	8.58E+04	4.50E+04	1.27E+05	4.55E+04	1.26E+05	-6.05E+05	6.09E+05
1/10	8.57E+04	2.46E+04	1.47E+05	2.52E+04	1.47E+05	-6.05E+05	6.09E+05

Table Q-234. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.56E+04	7.64E+04	9.52E+04	7.65E+04	9.51E+04	-5.45E+05	5.71E+05
1/20	8.76E+04	5.90E+04	1.15E+05	5.96E+04	1.15E+05	-5.60E+05	5.48E+05
1/15	8.95E+04	5.09E+04	1.25E+05	5.21E+04	1.24E+05	-5.60E+05	5.23E+05
1/10	9.31E+04	2.14E+04	1.41E+05	5.00E+04	1.40E+05	-4.31E+05	4.69E+05

Table Q-235. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.56E+04	7.60E+04	9.47E+04	7.61E+04	9.47E+04	-5.70E+05	5.45E+05
1/20	8.69E+04	5.67E+04	1.13E+05	5.73E+04	1.13E+05	-5.92E+05	5.20E+05
1/15	8.79E+04	4.80E+04	1.22E+05	4.89E+04	1.22E+05	-5.86E+05	5.04E+05
1/10	9.57E+04	4.79E+04	1.39E+05	4.87E+04	1.38E+05	-4.70E+05	4.25E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-236. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	7.09E+04	9.94E+04	7.10E+04	9.93E+04	-8.45E+05	8.56E+05
1/20	8.09E+04	3.91E+04	1.25E+05	3.93E+04	1.24E+05	-8.34E+05	8.68E+05
1/15	7.74E+04	2.20E+04	1.36E+05	2.22E+04	1.36E+05	-8.28E+05	8.74E+05
1/10	6.71E+04	-1.48E+04	1.56E+05	-1.45E+04	1.56E+05	-8.16E+05	8.85E+05

Table Q-237. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	7.05E+04	9.88E+04	7.05E+04	9.87E+04	-8.49E+05	8.43E+05
1/20	7.88E+04	3.91E+04	1.19E+05	3.93E+04	1.19E+05	-7.90E+05	8.04E+05
1/15	7.46E+04	2.58E+04	1.27E+05	2.60E+04	1.27E+05	-7.29E+05	7.79E+05
1/10	6.74E+04	7.19E+03	1.38E+05	7.29E+03	1.37E+05	-6.01E+05	7.00E+05

Table Q-238. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.46E+04	7.00E+04	9.87E+04	7.01E+04	9.85E+04	-8.69E+05	8.34E+05
1/20	7.84E+04	3.28E+04	1.18E+05	3.40E+04	1.17E+05	-8.88E+05	7.80E+05
1/15	7.41E+04	1.43E+04	1.26E+05	1.63E+04	1.25E+05	-8.66E+05	7.65E+05
1/10	7.07E+04	1.26E+03	1.38E+05	5.25E+03	1.35E+05	-6.55E+05	6.40E+05



Table Q–239. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–240. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.39E+04	7.48E+04	9.30E+04	7.49E+04	9.29E+04	-5.39E+05	5.41E+05
1/20	7.79E+04	4.89E+04	1.05E+05	5.08E+04	1.04E+05	-5.41E+05	5.19E+05
1/15	7.14E+04	2.90E+04	1.07E+05	3.21E+04	1.07E+05	-5.91E+05	5.27E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

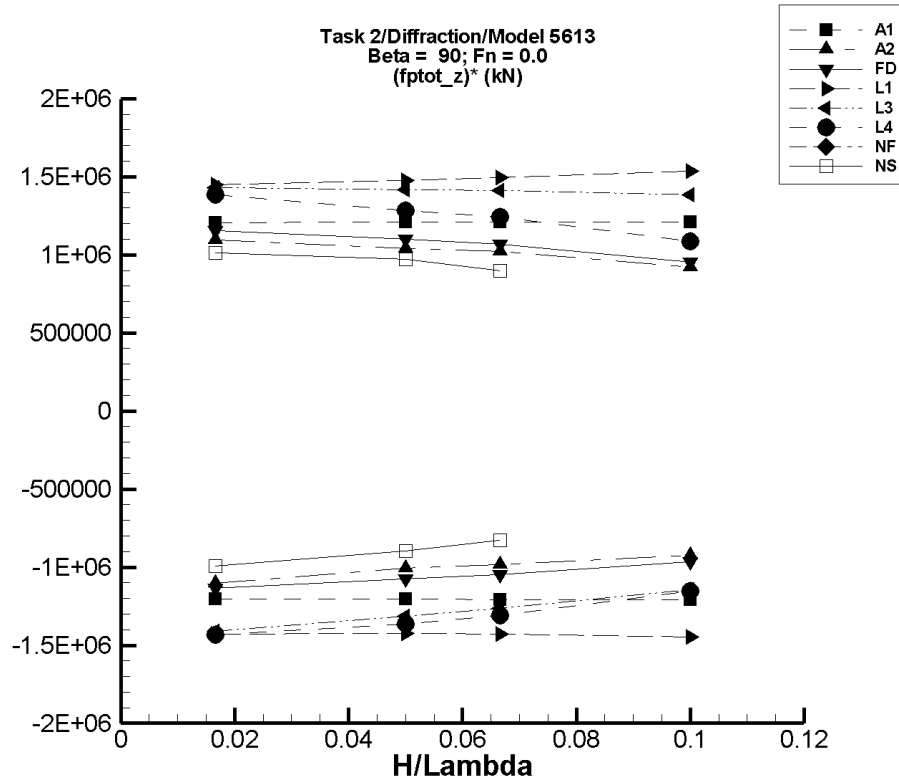


Figure Q–31. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-241. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	6.56E+04	1.06E+05	6.58E+04	1.06E+05	-1.20E+06	1.20E+06
1/20	8.58E+04	2.49E+04	1.47E+05	2.56E+04	1.46E+05	-1.21E+06	1.21E+06
1/15	8.58E+04	4.52E+03	1.67E+05	5.34E+03	1.66E+05	-1.21E+06	1.21E+06
1/10	8.57E+04	-3.62E+04	2.08E+05	-3.49E+04	2.07E+05	-1.21E+06	1.21E+06

Table Q-242. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	6.70E+04	1.04E+05	6.72E+04	1.04E+05	-1.10E+06	1.09E+06
1/20	8.77E+04	3.65E+04	1.40E+05	3.72E+04	1.40E+05	-1.01E+06	1.04E+06
1/15	8.96E+04	2.35E+04	1.59E+05	2.41E+04	1.58E+05	-9.81E+05	1.02E+06
1/10	9.39E+04	-824.	1.89E+05	1.75E+03	1.86E+05	-9.22E+05	9.19E+05

Table Q–243. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.56E+04	6.65E+04	1.05E+05	6.67E+04	1.05E+05	-1.14E+06	1.15E+06
1/20	8.69E+04	3.27E+04	1.42E+05	3.32E+04	1.42E+05	-1.07E+06	1.10E+06
1/15	8.81E+04	1.75E+04	1.60E+05	1.83E+04	1.59E+05	-1.05E+06	1.07E+06
1/10	9.64E+04	-3.19E+03	1.93E+05	-286.	1.92E+05	-9.67E+05	9.53E+05

Table Q–244. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.47E+04	6.08E+04	1.09E+05	6.09E+04	1.09E+05	-1.43E+06	1.45E+06
1/20	7.79E+04	6.35E+03	1.52E+05	6.61E+03	1.52E+05	-1.43E+06	1.47E+06
1/15	7.19E+04	-2.37E+04	1.72E+05	-2.34E+04	1.71E+05	-1.43E+06	1.49E+06
1/10	5.49E+04	-9.03E+04	2.09E+05	-8.97E+04	2.08E+05	-1.45E+06	1.53E+06

Table Q–245. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.43E+04	6.08E+04	1.08E+05	6.08E+04	1.08E+05	-1.41E+06	1.43E+06
1/20	7.58E+04	9.78E+03	1.47E+05	1.00E+04	1.47E+05	-1.32E+06	1.41E+06
1/15	6.92E+04	-1.53E+04	1.64E+05	-1.50E+04	1.63E+05	-1.26E+06	1.41E+06
1/10	5.54E+04	-5.99E+04	1.95E+05	-5.90E+04	1.94E+05	-1.14E+06	1.38E+06

Table Q–246. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.43E+04	6.02E+04	1.07E+05	6.04E+04	1.07E+05	-1.44E+06	1.39E+06
1/20	7.62E+04	7.00E+03	1.41E+05	7.99E+03	1.40E+05	-1.36E+06	1.28E+06
1/15	7.15E+04	-1.71E+04	1.55E+05	-1.59E+04	1.54E+05	-1.31E+06	1.24E+06
1/10	7.06E+04	-4.65E+04	1.82E+05	-4.48E+04	1.79E+05	-1.15E+06	1.09E+06

Table Q–247. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–248. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.38E+04	6.70E+04	1.01E+05	6.72E+04	1.01E+05	-9.92E+05	1.01E+06
1/20	7.73E+04	3.19E+04	1.27E+05	3.24E+04	1.26E+05	-8.98E+05	9.69E+05
1/15	7.08E+04	1.51E+04	1.31E+05	1.56E+04	1.31E+05	-8.27E+05	8.99E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

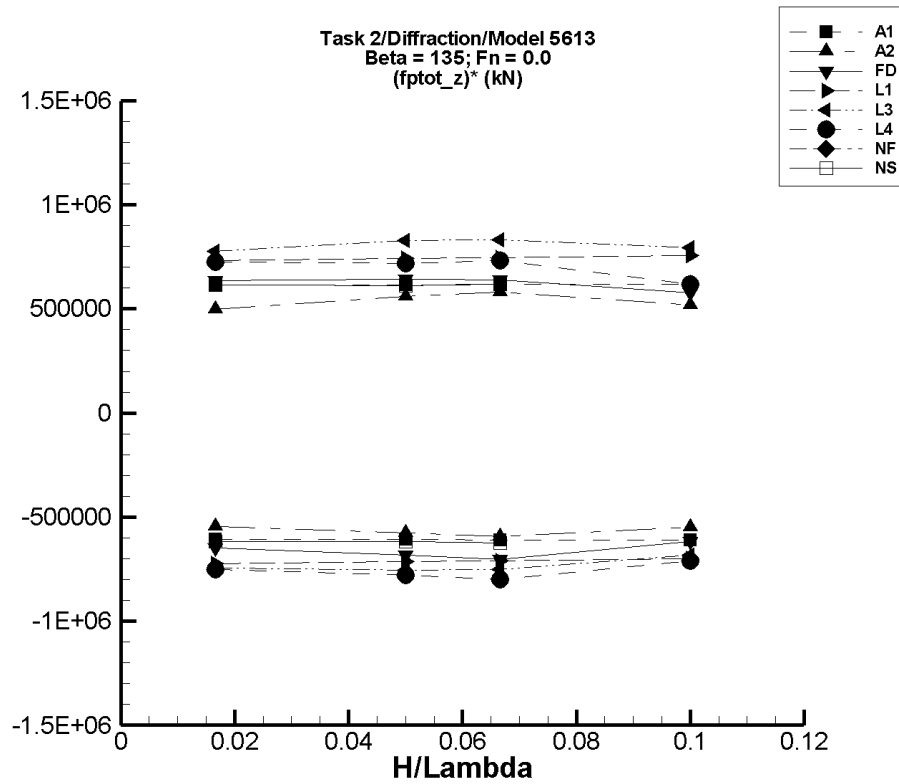


Figure Q-32. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-249. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.59E+04	7.57E+04	9.61E+04	7.58E+04	9.61E+04	-6.06E+05	6.15E+05
1/20	8.59E+04	5.51E+04	1.17E+05	5.55E+04	1.17E+05	-6.08E+05	6.17E+05
1/15	8.58E+04	4.48E+04	1.27E+05	4.52E+04	1.27E+05	-6.09E+05	6.17E+05
1/10	8.58E+04	2.43E+04	1.47E+05	2.49E+04	1.48E+05	-6.09E+05	6.17E+05

Table Q-250. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.56E+04	7.64E+04	9.40E+04	7.65E+04	9.39E+04	-5.46E+05	5.00E+05
1/20	8.77E+04	5.87E+04	1.16E+05	5.89E+04	1.16E+05	-5.76E+05	5.62E+05
1/15	8.95E+04	4.96E+04	1.28E+05	5.00E+04	1.28E+05	-5.93E+05	5.79E+05
1/10	9.34E+04	3.57E+04	1.46E+05	3.85E+04	1.45E+05	-5.49E+05	5.17E+05

Table Q-251. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.56E+04	7.47E+04	9.63E+04	7.48E+04	9.62E+04	-6.47E+05	6.36E+05
1/20	8.70E+04	5.25E+04	1.19E+05	5.28E+04	1.19E+05	-6.83E+05	6.43E+05
1/15	8.80E+04	4.07E+04	1.31E+05	4.11E+04	1.31E+05	-7.03E+05	6.40E+05
1/10	9.57E+04	3.34E+04	1.54E+05	3.41E+04	1.53E+05	-6.16E+05	5.77E+05



Table Q–252. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.50E+04	7.29E+04	9.72E+04	7.29E+04	9.72E+04	-7.23E+05	7.32E+05
1/20	8.05E+04	4.47E+04	1.18E+05	4.48E+04	1.18E+05	-7.14E+05	7.41E+05
1/15	7.65E+04	2.90E+04	1.26E+05	2.92E+04	1.26E+05	-7.10E+05	7.46E+05
1/10	6.52E+04	-5.14E+03	1.41E+05	-4.91E+03	1.41E+05	-7.02E+05	7.55E+05

Table Q–253. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.46E+04	7.22E+04	9.76E+04	7.22E+04	9.76E+04	-7.44E+05	7.77E+05
1/20	7.84E+04	4.05E+04	1.20E+05	4.06E+04	1.20E+05	-7.55E+05	8.27E+05
1/15	7.38E+04	2.36E+04	1.29E+05	2.37E+04	1.29E+05	-7.50E+05	8.32E+05
1/10	6.56E+04	-2.82E+03	1.45E+05	-2.66E+03	1.45E+05	-6.82E+05	7.94E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–254. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.45E+04	7.18E+04	9.67E+04	7.19E+04	9.66E+04	-7.52E+05	7.26E+05
1/20	7.68E+04	3.75E+04	1.13E+05	3.79E+04	1.13E+05	-7.79E+05	7.18E+05
1/15	7.14E+04	1.76E+04	1.21E+05	1.82E+04	1.20E+05	-7.98E+05	7.32E+05
1/10	6.83E+04	-4.88E+03	1.33E+05	-2.85E+03	1.30E+05	-7.12E+05	6.18E+05

Table Q–255. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–256. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.39E+04	7.35E+04	9.43E+04	7.36E+04	9.42E+04	-6.18E+05	6.16E+05
1/20	7.79E+04	4.61E+04	1.11E+05	4.71E+04	1.09E+05	-6.17E+05	6.12E+05
1/15	7.15E+04	2.95E+04	1.16E+05	3.00E+04	1.13E+05	-6.23E+05	6.20E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

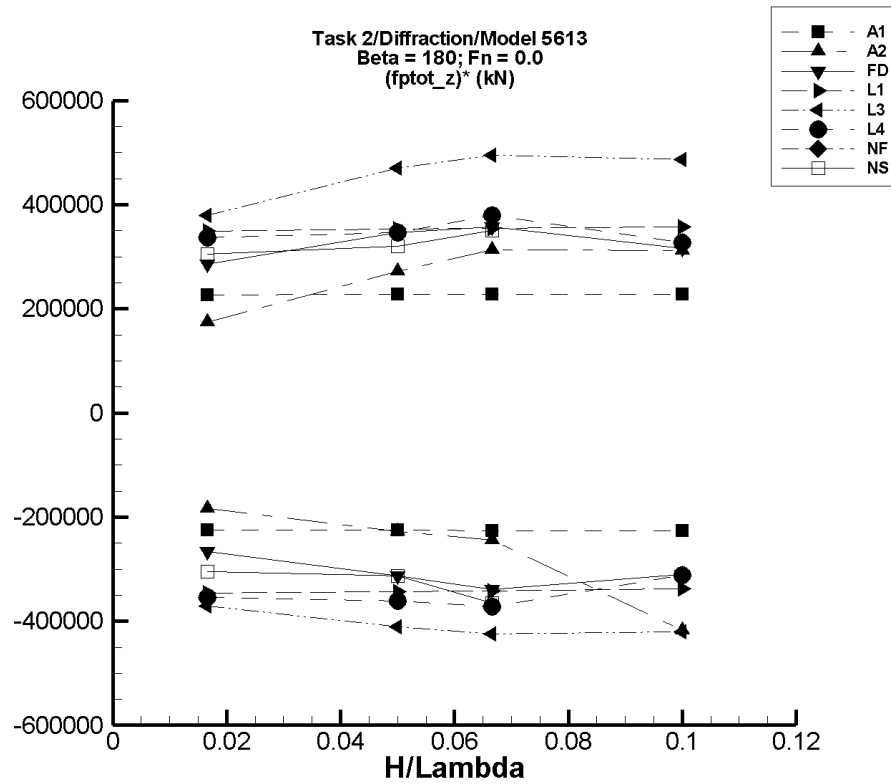


Figure Q-33. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–257. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.21E+04	8.97E+04	8.21E+04	8.97E+04	-2.25E+05	2.27E+05
1/20	8.59E+04	7.45E+04	9.73E+04	7.46E+04	9.72E+04	-2.25E+05	2.27E+05
1/15	8.59E+04	7.07E+04	1.01E+05	7.08E+04	1.01E+05	-2.26E+05	2.28E+05
1/10	8.58E+04	6.30E+04	1.09E+05	6.33E+04	1.09E+05	-2.26E+05	2.28E+05

Table Q–258. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.25E+04	8.85E+04	8.25E+04	8.85E+04	-1.84E+05	1.75E+05
1/20	8.77E+04	7.61E+04	1.01E+05	7.63E+04	1.01E+05	-2.28E+05	2.73E+05
1/15	8.96E+04	7.31E+04	1.11E+05	7.33E+04	1.10E+05	-2.44E+05	3.14E+05
1/10	9.16E+04	4.25E+04	1.23E+05	4.98E+04	1.23E+05	-4.18E+05	3.11E+05

Table Q–259. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.11E+04	9.04E+04	8.11E+04	9.03E+04	-2.66E+05	2.86E+05
1/20	8.69E+04	7.13E+04	1.04E+05	7.13E+04	1.04E+05	-3.13E+05	3.47E+05
1/15	8.80E+04	6.54E+04	1.12E+05	6.54E+04	1.12E+05	-3.40E+05	3.58E+05
1/10	9.59E+04	6.46E+04	1.28E+05	6.48E+04	1.27E+05	-3.11E+05	3.16E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-260. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.52E+04	7.95E+04	9.11E+04	7.95E+04	9.11E+04	-3.46E+05	3.50E+05
1/20	8.27E+04	6.55E+04	1.00E+05	6.56E+04	1.00E+05	-3.43E+05	3.53E+05
1/15	8.05E+04	5.77E+04	1.04E+05	5.78E+04	1.04E+05	-3.41E+05	3.54E+05
1/10	7.43E+04	4.04E+04	1.10E+05	4.05E+04	1.10E+05	-3.38E+05	3.58E+05

Table Q-261. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.49E+04	7.87E+04	9.12E+04	7.87E+04	9.12E+04	-3.71E+05	3.80E+05
1/20	8.07E+04	6.01E+04	1.04E+05	6.02E+04	1.04E+05	-4.11E+05	4.70E+05
1/15	7.79E+04	4.95E+04	1.11E+05	4.96E+04	1.11E+05	-4.24E+05	4.95E+05
1/10	7.47E+04	3.25E+04	1.24E+05	3.26E+04	1.23E+05	-4.21E+05	4.87E+05

Table Q-262. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.47E+04	7.88E+04	9.04E+04	7.88E+04	9.03E+04	-3.54E+05	3.37E+05
1/20	7.89E+04	6.06E+04	9.70E+04	6.08E+04	9.62E+04	-3.61E+05	3.46E+05
1/15	7.46E+04	4.94E+04	1.01E+05	4.98E+04	9.99E+04	-3.73E+05	3.80E+05
1/10	7.27E+04	2.91E+04	1.10E+05	4.15E+04	1.05E+05	-3.12E+05	3.27E+05

Table Q–263. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–264. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.40E+04	7.89E+04	8.91E+04	7.89E+04	8.91E+04	-3.05E+05	3.05E+05
1/20	7.84E+04	6.24E+04	9.60E+04	6.28E+04	9.45E+04	-3.13E+05	3.21E+05
1/15	7.21E+04	4.71E+04	1.01E+05	4.77E+04	9.55E+04	-3.65E+05	3.51E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

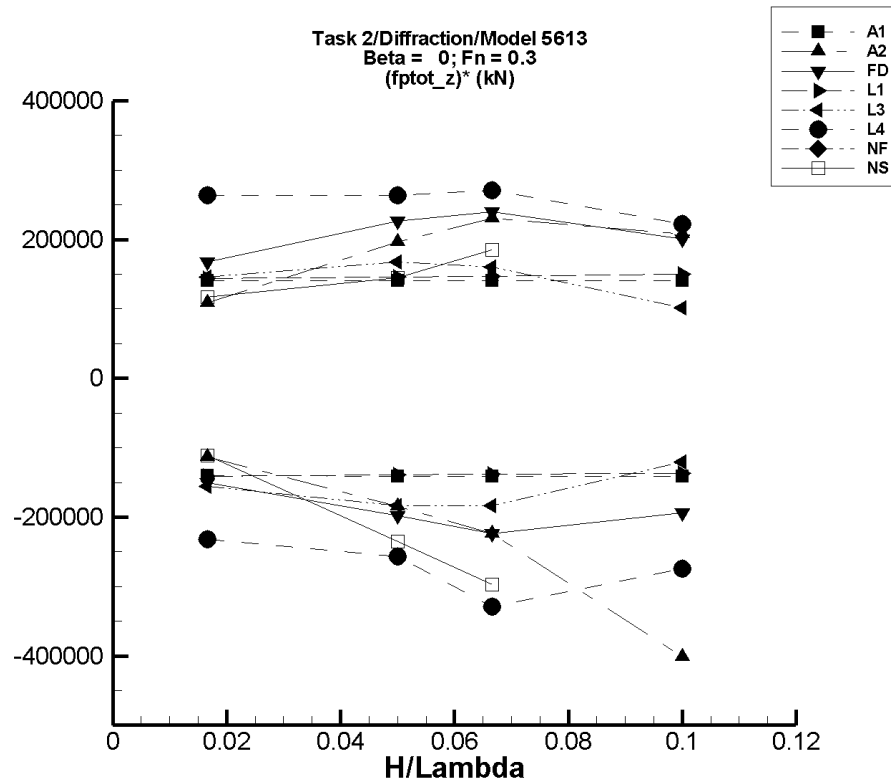


Figure Q-34. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-265. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.59E+04	8.36E+04	8.83E+04	8.36E+04	8.83E+04	-1.41E+05	1.40E+05
1/20	8.59E+04	7.89E+04	9.30E+04	7.89E+04	9.30E+04	-1.41E+05	1.41E+05
1/15	8.59E+04	7.65E+04	9.54E+04	7.65E+04	9.53E+04	-1.41E+05	1.41E+05
1/10	8.60E+04	7.18E+04	1.00E+05	7.18E+04	1.00E+05	-1.41E+05	1.41E+05

Table Q-266. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.56E+04	8.37E+04	8.74E+04	8.37E+04	8.74E+04	-1.13E+05	1.08E+05
1/20	8.77E+04	7.83E+04	9.76E+04	7.85E+04	9.75E+04	-1.85E+05	1.96E+05
1/15	8.97E+04	7.45E+04	1.05E+05	7.47E+04	1.05E+05	-2.24E+05	2.31E+05
1/10	9.18E+04	4.84E+04	1.13E+05	5.16E+04	1.13E+05	-4.02E+05	2.08E+05

Table Q-267. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.56E+04	8.31E+04	8.84E+04	8.31E+04	8.84E+04	-1.51E+05	1.67E+05
1/20	8.69E+04	7.71E+04	9.83E+04	7.71E+04	9.83E+04	-1.98E+05	2.27E+05
1/15	8.80E+04	7.31E+04	1.04E+05	7.31E+04	1.04E+05	-2.24E+05	2.40E+05
1/10	9.58E+04	7.65E+04	1.16E+05	7.65E+04	1.16E+05	-1.94E+05	2.01E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-268. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.15E+04	7.92E+04	8.39E+04	7.92E+04	8.39E+04	-1.41E+05	1.43E+05
1/20	7.92E+04	7.23E+04	8.65E+04	7.23E+04	8.65E+04	-1.39E+05	1.46E+05
1/15	7.72E+04	6.80E+04	8.70E+04	6.80E+04	8.70E+04	-1.38E+05	1.47E+05
1/10	7.13E+04	5.77E+04	8.63E+04	5.77E+04	8.63E+04	-1.37E+05	1.49E+05

Table Q-269. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.12E+04	7.86E+04	8.36E+04	7.86E+04	8.36E+04	-1.56E+05	1.46E+05
1/20	7.72E+04	6.80E+04	8.55E+04	6.80E+04	8.55E+04	-1.83E+05	1.67E+05
1/15	7.45E+04	6.22E+04	8.52E+04	6.22E+04	8.52E+04	-1.84E+05	1.61E+05
1/10	7.18E+04	5.97E+04	8.19E+04	5.97E+04	8.19E+04	-1.21E+05	1.01E+05

Table Q-270. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	8.10E+04	7.71E+04	8.59E+04	7.72E+04	8.54E+04	-2.32E+05	2.64E+05
1/20	7.83E+04	6.52E+04	9.19E+04	6.55E+04	9.15E+04	-2.57E+05	2.64E+05
1/15	7.66E+04	5.40E+04	9.61E+04	5.47E+04	9.47E+04	-3.29E+05	2.71E+05
1/10	7.94E+04	4.93E+04	1.03E+05	5.19E+04	1.02E+05	-2.75E+05	2.23E+05

Table Q–271. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–272. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.43E+04	8.24E+04	8.63E+04	8.24E+04	8.62E+04	-1.11E+05	1.17E+05
1/20	7.50E+04	6.19E+04	8.25E+04	6.33E+04	8.23E+04	-2.35E+05	1.45E+05
1/15	6.57E+04	4.34E+04	7.82E+04	4.59E+04	7.81E+04	-2.97E+05	1.85E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

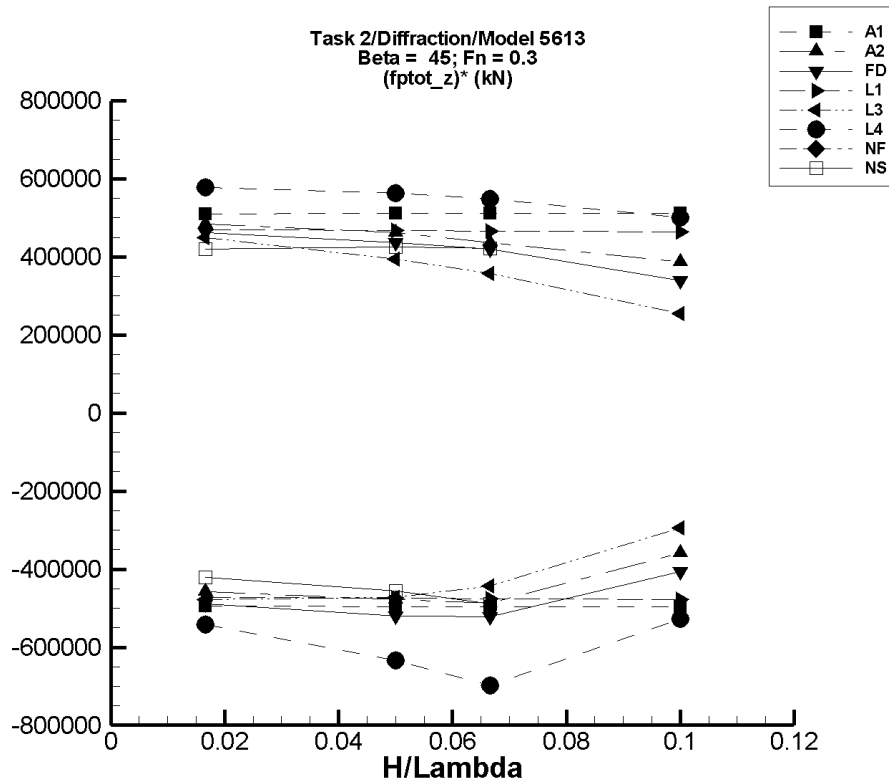


Figure Q–35. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-273. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.59E+04	7.73E+04	9.46E+04	7.76E+04	9.44E+04	-4.95E+05	5.10E+05
1/20	8.59E+04	6.01E+04	1.12E+05	6.11E+04	1.11E+05	-4.96E+05	5.11E+05
1/15	8.59E+04	5.15E+04	1.21E+05	5.28E+04	1.20E+05	-4.97E+05	5.12E+05
1/10	8.59E+04	3.43E+04	1.38E+05	3.62E+04	1.37E+05	-4.97E+05	5.12E+05

Table Q-274. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.56E+04	7.77E+04	9.40E+04	7.80E+04	9.37E+04	-4.57E+05	4.85E+05
1/20	8.77E+04	6.32E+04	1.11E+05	6.38E+04	1.11E+05	-4.79E+05	4.61E+05
1/15	8.96E+04	5.67E+04	1.20E+05	5.71E+04	1.19E+05	-4.87E+05	4.36E+05
1/10	9.33E+04	3.46E+04	1.34E+05	5.74E+04	1.32E+05	-3.59E+05	3.87E+05

Table Q-275. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min.	Max.	Min.	Max.	Min.	Max.
		(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
1/60	8.56E+04	7.74E+04	9.33E+04	7.74E+04	9.33E+04	-4.89E+05	4.61E+05
1/20	8.69E+04	6.08E+04	1.09E+05	6.09E+04	1.09E+05	-5.20E+05	4.36E+05
1/15	8.80E+04	5.30E+04	1.16E+05	5.31E+04	1.16E+05	-5.23E+05	4.19E+05
1/10	9.58E+04	5.51E+04	1.30E+05	5.52E+04	1.30E+05	-4.05E+05	3.38E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-276. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.13E+04	7.34E+04	8.92E+04	7.34E+04	8.91E+04	-4.73E+05	4.70E+05
1/20	7.72E+04	5.34E+04	1.01E+05	5.34E+04	1.01E+05	-4.75E+05	4.68E+05
1/15	7.35E+04	4.18E+04	1.05E+05	4.18E+04	1.05E+05	-4.76E+05	4.66E+05
1/10	6.32E+04	1.53E+04	1.10E+05	1.53E+04	1.10E+05	-4.79E+05	4.64E+05

Table Q-277. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.10E+04	7.30E+04	8.84E+04	7.30E+04	8.84E+04	-4.79E+05	4.49E+05
1/20	7.51E+04	5.15E+04	9.48E+04	5.15E+04	9.48E+04	-4.72E+05	3.94E+05
1/15	7.08E+04	4.12E+04	9.46E+04	4.12E+04	9.46E+04	-4.44E+05	3.57E+05
1/10	6.35E+04	3.40E+04	8.90E+04	3.40E+04	8.90E+04	-2.95E+05	2.54E+05

Table Q-278. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>F_z^{\text{ptot}}</math></b> <b>Min.      Max.</b> (kN)      (kN)		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b> <b>Min.      Max.</b> (kN)      (kN)	
1/60	8.06E+04	7.15E+04	9.03E+04	7.16E+04	9.03E+04	-5.43E+05	5.78E+05
1/20	7.51E+04	4.22E+04	1.04E+05	4.33E+04	1.03E+05	-6.35E+05	5.64E+05
1/15	7.14E+04	2.39E+04	1.08E+05	2.48E+04	1.08E+05	-6.99E+05	5.48E+05
1/10	7.22E+04	1.54E+04	1.55E+05	1.94E+04	1.22E+05	-5.28E+05	5.00E+05

Table Q–279. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–280. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	7.78E+04	9.20E+04	7.79E+04	9.19E+04	-4.20E+05	4.20E+05
1/20	7.67E+04	5.28E+04	9.85E+04	5.39E+04	9.79E+04	-4.56E+05	4.25E+05
1/15	7.14E+04	3.77E+04	1.01E+05	3.88E+04	9.95E+04	-4.89E+05	4.22E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

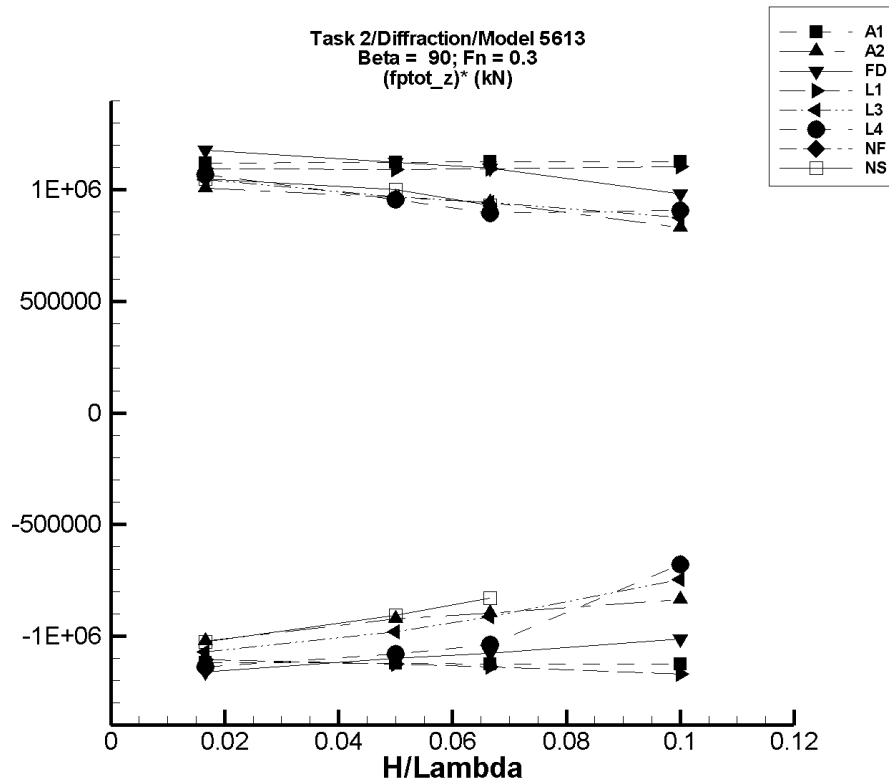


Figure Q-36. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–281. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.60E+04	6.71E+04	1.05E+05	6.73E+04	1.05E+05	-1.12E+06	1.12E+06
1/20	8.62E+04	2.95E+04	1.43E+05	3.01E+04	1.42E+05	-1.12E+06	1.12E+06
1/15	8.63E+04	1.06E+04	1.62E+05	1.13E+04	1.61E+05	-1.12E+06	1.13E+06
1/10	8.65E+04	-2.71E+04	2.00E+05	-2.59E+04	1.99E+05	-1.12E+06	1.13E+06

Table Q–282. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.57E+04	6.85E+04	1.03E+05	6.87E+04	1.03E+05	-1.02E+06	1.01E+06
1/20	8.81E+04	4.12E+04	1.36E+05	4.19E+04	1.36E+05	-9.24E+05	9.65E+05
1/15	9.01E+04	2.98E+04	1.54E+05	3.04E+04	1.53E+05	-8.96E+05	9.42E+05
1/10	9.48E+04	8.63E+03	1.81E+05	1.12E+04	1.78E+05	-8.35E+05	8.30E+05



Table Q–283. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	6.60E+04	1.05E+05	6.62E+04	1.05E+05	-1.16E+06	1.18E+06
1/20	8.69E+04	3.13E+04	1.44E+05	3.19E+04	1.43E+05	-1.10E+06	1.12E+06
1/15	8.81E+04	1.54E+04	1.62E+05	1.63E+04	1.61E+05	-1.08E+06	1.10E+06
1/10	9.64E+04	-7.54E+03	1.96E+05	-4.77E+03	1.95E+05	-1.01E+06	9.83E+05

Table Q–284. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.11E+04	6.26E+04	9.94E+04	6.27E+04	9.94E+04	-1.11E+06	1.09E+06
1/20	7.56E+04	1.90E+04	1.30E+05	1.93E+04	1.30E+05	-1.13E+06	1.09E+06
1/15	7.07E+04	-5.54E+03	1.44E+05	-5.23E+03	1.44E+05	-1.14E+06	1.09E+06
1/10	5.69E+04	-6.06E+04	1.68E+05	-6.01E+04	1.67E+05	-1.17E+06	1.10E+06

Table Q–285. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.08E+04	6.28E+04	9.83E+04	6.29E+04	9.82E+04	-1.07E+06	1.05E+06
1/20	7.35E+04	2.42E+04	1.22E+05	2.44E+04	1.22E+05	-9.81E+05	9.69E+05
1/15	6.80E+04	6.78E+03	1.31E+05	7.04E+03	1.31E+05	-9.15E+05	9.43E+05
1/10	5.73E+04	-1.83E+04	1.46E+05	-1.72E+04	1.45E+05	-7.45E+05	8.77E+05

Table Q–286. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.02E+04	6.11E+04	9.81E+04	6.12E+04	9.80E+04	-1.14E+06	1.07E+06
1/20	7.17E+04	1.67E+04	1.20E+05	1.76E+04	1.20E+05	-1.08E+06	9.57E+05
1/15	6.62E+04	-3.94E+03	1.26E+05	-3.18E+03	1.26E+05	-1.04E+06	8.96E+05
1/10	6.28E+04	-1.82E+04	2.24E+05	-5.01E+03	1.54E+05	-6.78E+05	9.09E+05

Table Q–287. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–288. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.36E+04	6.63E+04	1.01E+05	6.65E+04	1.01E+05	-1.03E+06	1.05E+06
1/20	7.55E+04	2.96E+04	1.28E+05	3.02E+04	1.26E+05	-9.07E+05	1.00E+06
1/15	6.87E+04	1.29E+04	1.31E+05	1.33E+04	1.31E+05	-8.31E+05	9.31E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

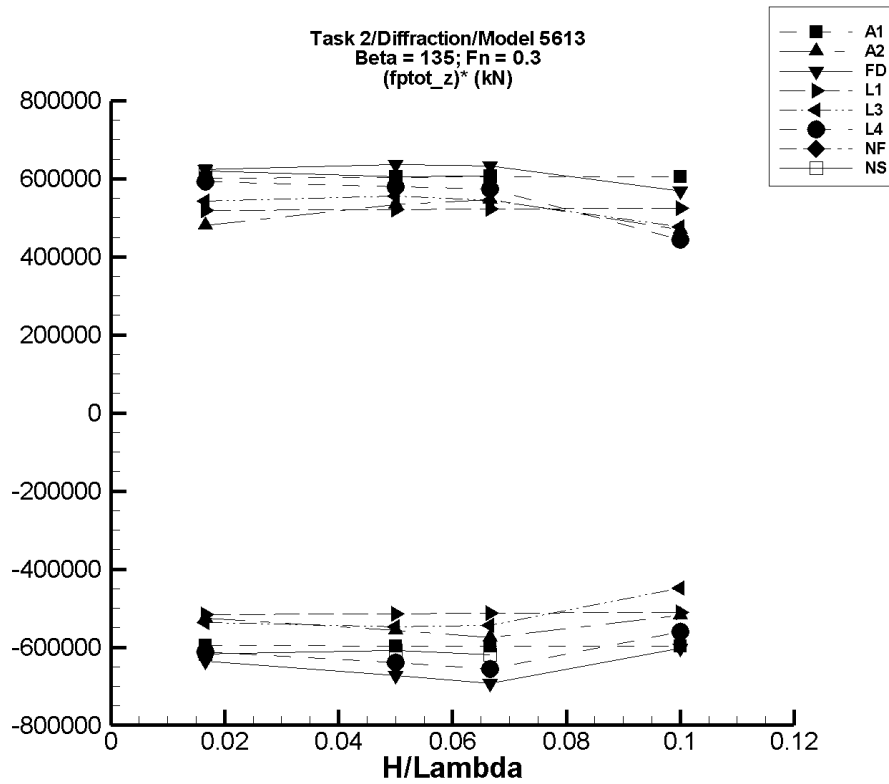


Figure Q-37. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-289. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	7.57E+04	9.61E+04	7.60E+04	9.60E+04	-5.95E+05	6.02E+05
1/20	8.59E+04	5.52E+04	1.17E+05	5.61E+04	1.16E+05	-5.97E+05	6.04E+05
1/15	8.60E+04	4.49E+04	1.27E+05	4.61E+04	1.26E+05	-5.97E+05	6.04E+05
1/10	8.60E+04	2.44E+04	1.47E+05	2.62E+04	1.46E+05	-5.97E+05	6.04E+05

Table Q-290. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	7.67E+04	9.37E+04	7.69E+04	9.36E+04	-5.25E+05	4.81E+05
1/20	8.78E+04	5.92E+04	1.15E+05	5.99E+04	1.14E+05	-5.58E+05	5.33E+05
1/15	8.97E+04	5.05E+04	1.27E+05	5.14E+04	1.26E+05	-5.74E+05	5.46E+05
1/10	9.35E+04	3.73E+04	1.42E+05	4.17E+04	1.40E+05	-5.18E+05	4.70E+05

Table Q-291. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	7.47E+04	9.62E+04	7.50E+04	9.60E+04	-6.36E+05	6.23E+05
1/20	8.69E+04	5.26E+04	1.19E+05	5.33E+04	1.19E+05	-6.72E+05	6.36E+05
1/15	8.79E+04	4.07E+04	1.30E+05	4.18E+04	1.30E+05	-6.92E+05	6.33E+05
1/10	9.57E+04	3.37E+04	1.53E+05	3.54E+04	1.53E+05	-6.03E+05	5.69E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–292. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.13E+04	7.26E+04	9.00E+04	7.27E+04	9.00E+04	-5.16E+05	5.19E+05
1/20	7.72E+04	5.13E+04	1.04E+05	5.15E+04	1.03E+05	-5.14E+05	5.22E+05
1/15	7.37E+04	3.92E+04	1.09E+05	3.95E+04	1.09E+05	-5.13E+05	5.23E+05
1/10	6.35E+04	1.20E+04	1.16E+05	1.24E+04	1.16E+05	-5.10E+05	5.25E+05

Table Q–293. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.10E+04	7.20E+04	9.01E+04	7.20E+04	9.00E+04	-5.36E+05	5.44E+05
1/20	7.52E+04	4.76E+04	1.03E+05	4.78E+04	1.03E+05	-5.48E+05	5.55E+05
1/15	7.09E+04	3.44E+04	1.08E+05	3.47E+04	1.07E+05	-5.44E+05	5.44E+05
1/10	6.39E+04	1.87E+04	1.12E+05	1.90E+04	1.12E+05	-4.49E+05	4.77E+05

Table Q–294. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>F_z^{\text{ptot}}</math></b>		<b>Filtered <math>(F_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.01E+04	6.98E+04	9.04E+04	6.99E+04	8.99E+04	-6.11E+05	5.93E+05
1/20	7.08E+04	3.85E+04	1.00E+05	3.89E+04	9.98E+04	-6.39E+05	5.80E+05
1/15	6.48E+04	2.05E+04	1.05E+05	2.11E+04	1.03E+05	-6.56E+05	5.73E+05
1/10	6.00E+04	1.03E+03	1.08E+05	3.90E+03	1.04E+05	-5.61E+05	4.43E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–295. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–296. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.38E+04	7.33E+04	9.42E+04	7.35E+04	9.42E+04	-6.17E+05	6.20E+05
1/20	7.61E+04	4.47E+04	1.11E+05	4.56E+04	1.06E+05	-6.09E+05	6.05E+05
1/15	6.98E+04	2.80E+04	1.16E+05	2.86E+04	1.10E+05	-6.19E+05	6.06E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

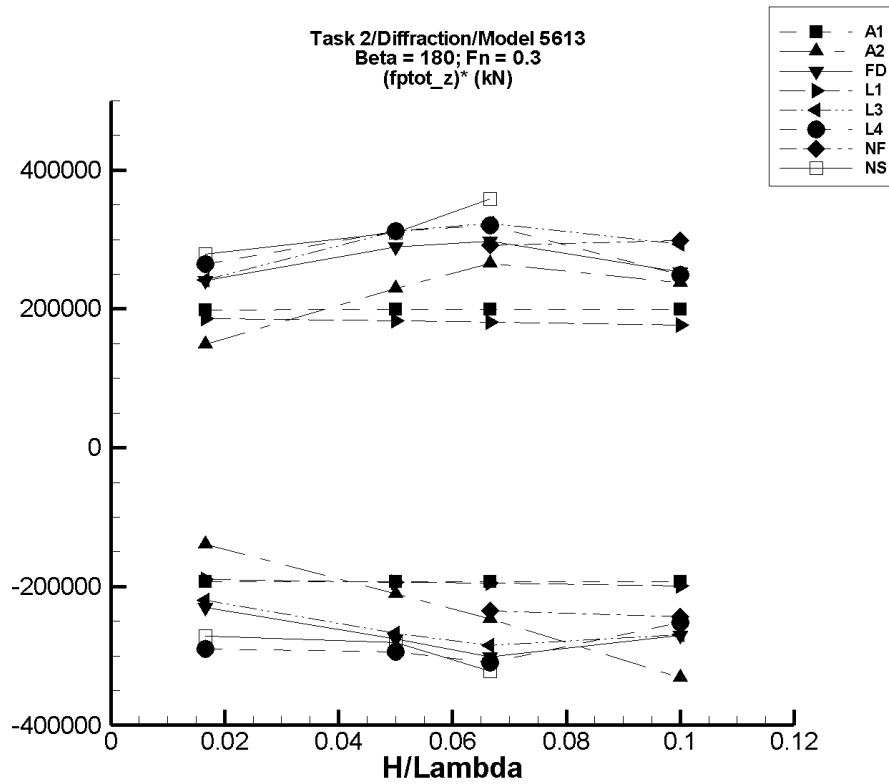


Figure Q-38. Minimum and maximum of filtered  $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q–297. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.26E+04	8.94E+04	8.27E+04	8.92E+04	-1.93E+05	1.99E+05
1/20	8.58E+04	7.58E+04	9.65E+04	7.61E+04	9.58E+04	-1.93E+05	1.99E+05
1/15	8.58E+04	7.25E+04	1.00E+05	7.29E+04	9.91E+04	-1.93E+05	1.99E+05
1/10	8.57E+04	6.57E+04	1.07E+05	6.64E+04	1.06E+05	-1.93E+05	1.99E+05

Table Q–298. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.30E+04	8.83E+04	8.33E+04	8.81E+04	-1.39E+05	1.49E+05
1/20	8.76E+04	7.68E+04	1.00E+05	7.70E+04	9.91E+04	-2.11E+05	2.30E+05
1/15	8.95E+04	7.25E+04	1.08E+05	7.30E+04	1.07E+05	-2.47E+05	2.65E+05
1/10	9.17E+04	4.74E+04	1.16E+05	5.86E+04	1.15E+05	-3.31E+05	2.38E+05

Table Q–299. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.16E+04	8.97E+04	8.17E+04	8.96E+04	-2.30E+05	2.40E+05
1/20	8.69E+04	7.27E+04	1.02E+05	7.31E+04	1.01E+05	-2.76E+05	2.89E+05
1/15	8.80E+04	6.73E+04	1.08E+05	6.79E+04	1.08E+05	-3.02E+05	2.97E+05
1/10	9.58E+04	6.80E+04	1.22E+05	6.88E+04	1.21E+05	-2.70E+05	2.53E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-300. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.15E+04	7.83E+04	8.46E+04	7.83E+04	8.46E+04	-1.90E+05	1.86E+05
1/20	7.86E+04	6.88E+04	8.78E+04	6.89E+04	8.77E+04	-1.94E+05	1.83E+05
1/15	7.61E+04	6.29E+04	8.83E+04	6.31E+04	8.82E+04	-1.96E+05	1.81E+05
1/10	6.90E+04	4.88E+04	8.68E+04	4.91E+04	8.67E+04	-1.99E+05	1.77E+05

Table Q-301. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.11E+04	7.74E+04	8.52E+04	7.75E+04	8.51E+04	-2.19E+05	2.42E+05
1/20	7.66E+04	6.31E+04	9.24E+04	6.32E+04	9.22E+04	-2.67E+05	3.12E+05
1/15	7.34E+04	5.43E+04	9.53E+04	5.45E+04	9.50E+04	-2.84E+05	3.23E+05
1/10	6.94E+04	4.22E+04	9.91E+04	4.25E+04	9.87E+04	-2.69E+05	2.93E+05

Table Q-302. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.02E+04	7.52E+04	8.47E+04	7.53E+04	8.46E+04	-2.90E+05	2.64E+05
1/20	7.15E+04	5.65E+04	8.87E+04	5.68E+04	8.70E+04	-2.94E+05	3.12E+05
1/15	6.62E+04	4.48E+04	8.98E+04	4.55E+04	8.75E+04	-3.09E+05	3.20E+05
1/10	6.15E+04	2.25E+04	9.49E+04	3.64E+04	8.65E+04	-2.51E+05	2.49E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–303. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	8.01E+04	6.85E+04	9.54E+04	6.89E+04	9.42E+04	-2.24E+05	2.81E+05
1/15	8.13E+04	6.54E+04	1.02E+05	6.56E+04	1.01E+05	-2.35E+05	2.91E+05
1/10	8.00E+04	5.53E+04	1.10E+05	5.56E+04	1.10E+05	-2.43E+05	2.98E+05

Table Q–304. Minimum and Maximum of Variables  $F_z^{\text{ptot}}$  and  $(F_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{ptot}}$		Filtered $F_z^{\text{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.39E+04	7.93E+04	8.86E+04	7.94E+04	8.85E+04	-2.71E+05	2.79E+05
1/20	7.71E+04	6.23E+04	9.65E+04	6.31E+04	9.26E+04	-2.81E+05	3.10E+05
1/15	7.17E+04	4.92E+04	1.09E+05	5.02E+04	9.56E+04	-3.22E+05	3.58E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

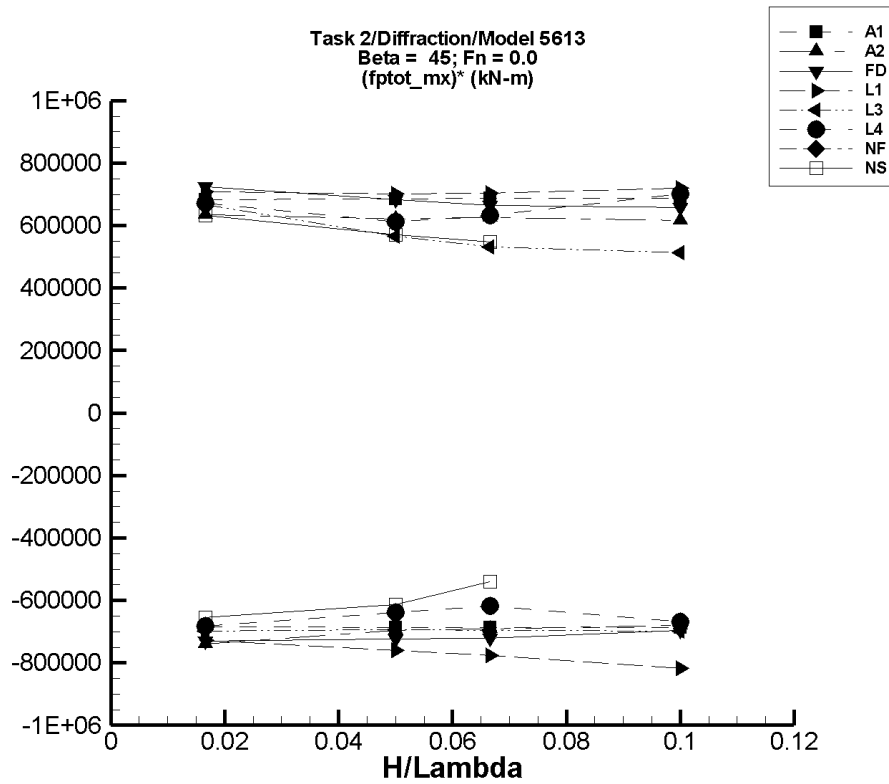


Figure Q-39. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-305. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	2.92	-1.15E+04	1.15E+04	-1.14E+04	1.14E+04	-6.85E+05	6.84E+05
1/20	8.80	-3.47E+04	3.46E+04	-3.43E+04	3.43E+04	-6.87E+05	6.86E+05
1/15	11.7	-4.63E+04	4.63E+04	-4.58E+04	4.58E+04	-6.88E+05	6.87E+05
1/10	17.6	-6.94E+04	6.94E+04	-6.87E+04	6.87E+04	-6.88E+05	6.87E+05

Table Q-306. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	26.7	-1.26E+04	1.08E+04	-1.23E+04	1.06E+04	-7.39E+05	6.34E+05
1/20	-103.	-3.75E+04	3.12E+04	-3.49E+04	3.10E+04	-6.97E+05	6.22E+05
1/15	-143.	-4.77E+04	4.27E+04	-4.62E+04	4.15E+04	-6.91E+05	6.24E+05
1/10	-1.18E+03	-8.23E+04	6.20E+04	-6.92E+04	6.05E+04	-6.80E+05	6.17E+05

Table Q-307. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-8.77	-1.23E+04	1.22E+04	-1.22E+04	1.21E+04	-7.30E+05	7.25E+05
1/20	-78.8	-3.66E+04	3.43E+04	-3.62E+04	3.40E+04	-7.23E+05	6.82E+05
1/15	-82.5	-4.86E+04	4.46E+04	-4.82E+04	4.43E+04	-7.21E+05	6.66E+05
1/10	-68.8	-7.05E+04	6.64E+04	-6.97E+04	6.57E+04	-6.97E+05	6.58E+05

Table Q-308. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	544.	-1.16E+04	1.24E+04	-1.16E+04	1.23E+04	-7.28E+05	7.07E+05
1/20	4.86E+03	-3.33E+04	4.01E+04	-3.31E+04	3.99E+04	-7.59E+05	7.02E+05
1/15	8.63E+03	-4.34E+04	5.58E+04	-4.32E+04	5.56E+04	-7.77E+05	7.05E+05
1/10	1.94E+04	-6.28E+04	9.17E+04	-6.23E+04	9.14E+04	-8.17E+05	7.20E+05

Table Q-309. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	538.	-1.12E+04	1.17E+04	-1.11E+04	1.17E+04	-6.99E+05	6.68E+05
1/20	4.89E+03	-2.99E+04	3.32E+04	-2.98E+04	3.32E+04	-6.93E+05	5.66E+05
1/15	8.71E+03	-3.79E+04	4.43E+04	-3.77E+04	4.42E+04	-6.96E+05	5.32E+05
1/10	1.94E+04	-5.09E+04	7.10E+04	-5.05E+04	7.08E+04	-6.99E+05	5.14E+05

Table Q-310. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	357.	-1.14E+04	1.18E+04	-1.10E+04	1.15E+04	-6.83E+05	6.70E+05
1/20	2.15E+03	-3.20E+04	3.50E+04	-2.98E+04	3.27E+04	-6.38E+05	6.11E+05
1/15	-134.	-4.70E+04	4.44E+04	-4.14E+04	4.21E+04	-6.18E+05	6.33E+05
1/10	-9.42E+03	-9.58E+04	6.66E+04	-7.62E+04	6.07E+04	-6.68E+05	7.01E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-311. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-312. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	79.0	-1.10E+04	1.08E+04	-1.09E+04	1.06E+04	-6.56E+05	6.31E+05
1/20	-114.	-3.29E+04	2.89E+04	-3.08E+04	2.84E+04	-6.13E+05	5.71E+05
1/15	-1.61E+03	-3.76E+04	3.57E+04	-3.76E+04	3.49E+04	-5.40E+05	5.47E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

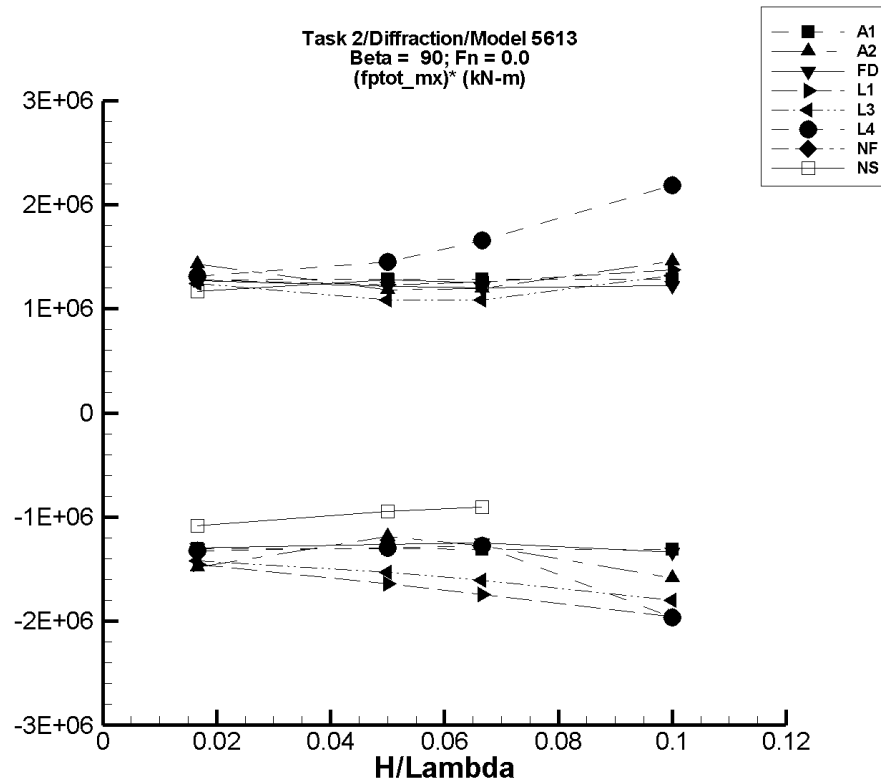


Figure Q-40. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-313. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_x^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	17.8	-2.16E+04	2.17E+04	-2.17E+04	2.14E+04	-1.30E+06	1.28E+06
1/20	53.5	-6.50E+04	6.52E+04	-6.52E+04	6.43E+04	-1.31E+06	1.28E+06
1/15	71.4	-8.68E+04	8.70E+04	-8.71E+04	8.58E+04	-1.31E+06	1.29E+06
1/10	107.	-1.30E+05	1.31E+05	-1.31E+05	1.29E+05	-1.31E+06	1.29E+06

Table Q-314. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_x^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	26.0	-2.48E+04	2.50E+04	-2.47E+04	2.38E+04	-1.48E+06	1.43E+06
1/20	-234.	-6.33E+04	6.06E+04	-5.95E+04	5.88E+04	-1.19E+06	1.18E+06
1/15	197.	-8.98E+04	8.42E+04	-8.48E+04	8.01E+04	-1.27E+06	1.20E+06
1/10	161.	-1.71E+05	1.55E+05	-1.59E+05	1.46E+05	-1.59E+06	1.46E+06

Table Q–315. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-17.7	-2.17E+04	2.14E+04	-2.17E+04	2.11E+04	-1.30E+06	1.27E+06
1/20	-48.3	-6.36E+04	6.20E+04	-6.31E+04	6.07E+04	-1.26E+06	1.22E+06
1/15	-78.4	-8.47E+04	8.19E+04	-8.34E+04	8.02E+04	-1.25E+06	1.20E+06
1/10	109.	-1.34E+05	1.24E+05	-1.33E+05	1.22E+05	-1.34E+06	1.22E+06

Table Q–316. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	1.39E+03	-2.28E+04	2.28E+04	-2.28E+04	2.27E+04	-1.45E+06	1.28E+06
1/20	1.25E+04	-7.01E+04	7.42E+04	-6.96E+04	7.40E+04	-1.64E+06	1.23E+06
1/15	2.22E+04	-9.48E+04	1.07E+05	-9.41E+04	1.06E+05	-1.74E+06	1.26E+06
1/10	5.00E+04	-1.47E+05	1.89E+05	-1.45E+05	1.88E+05	-1.95E+06	1.38E+06

Table Q–317. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	1.39E+03	-2.22E+04	2.22E+04	-2.22E+04	2.21E+04	-1.42E+06	1.25E+06
1/20	1.25E+04	-6.46E+04	6.72E+04	-6.40E+04	6.69E+04	-1.53E+06	1.09E+06
1/15	2.22E+04	-8.59E+04	9.46E+04	-8.49E+04	9.44E+04	-1.61E+06	1.08E+06
1/10	5.00E+04	-1.31E+05	1.83E+05	-1.30E+05	1.82E+05	-1.80E+06	1.32E+06

Table Q–318. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	709.	-2.15E+04	2.36E+04	-2.13E+04	2.25E+04	-1.32E+06	1.31E+06
1/20	4.47E+03	-6.22E+04	7.96E+04	-6.02E+04	7.70E+04	-1.29E+06	1.45E+06
1/15	-502.	-8.98E+04	1.17E+05	-8.56E+04	1.10E+05	-1.28E+06	1.66E+06
1/10	-2.35E+04	-2.32E+05	2.11E+05	-2.20E+05	1.95E+05	-1.97E+06	2.19E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-319. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-320. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	87.1	-1.80E+04	1.98E+04	-1.79E+04	1.96E+04	-1.08E+06	1.17E+06
1/20	-224.	-5.14E+04	6.75E+04	-4.75E+04	6.36E+04	-9.46E+05	1.28E+06
1/15	-1.97E+03	-6.35E+04	8.65E+04	-6.22E+04	8.15E+04	-9.03E+05	1.25E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

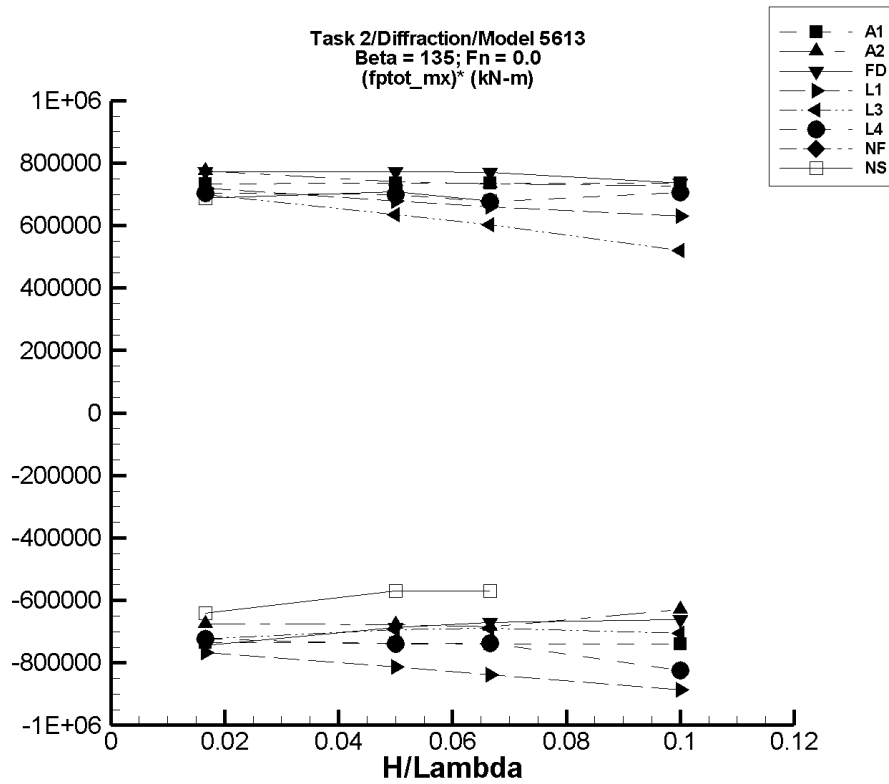


Figure Q-41. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-321. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	14.4	-1.24E+04	1.24E+04	-1.23E+04	1.22E+04	-7.36E+05	7.33E+05
1/20	43.2	-3.72E+04	3.72E+04	-3.68E+04	3.68E+04	-7.38E+05	7.35E+05
1/15	57.7	-4.97E+04	4.96E+04	-4.92E+04	4.91E+04	-7.39E+05	7.36E+05
1/10	86.5	-7.45E+04	7.45E+04	-7.38E+04	7.37E+04	-7.39E+05	7.36E+05

Table Q-322. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	29.7	-1.14E+04	1.33E+04	-1.12E+04	1.29E+04	-6.75E+05	7.75E+05
1/20	178.	-3.42E+04	3.93E+04	-3.37E+04	3.72E+04	-6.78E+05	7.41E+05
1/15	582.	-4.56E+04	6.87E+04	-4.50E+04	4.95E+04	-6.84E+05	7.34E+05
1/10	324.	-6.30E+04	7.57E+04	-6.25E+04	7.29E+04	-6.29E+05	7.26E+05

Table Q–323. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	8.40	-1.25E+04	1.30E+04	-1.24E+04	1.29E+04	-7.45E+05	7.74E+05
1/20	108.	-3.45E+04	3.92E+04	-3.42E+04	3.87E+04	-6.87E+05	7.73E+05
1/15	173.	-4.49E+04	5.21E+04	-4.45E+04	5.15E+04	-6.70E+05	7.70E+05
1/10	147.	-6.65E+04	7.45E+04	-6.60E+04	7.38E+04	-6.61E+05	7.37E+05

Table Q–324. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	840.	-1.20E+04	1.29E+04	-1.19E+04	1.28E+04	-7.67E+05	7.21E+05
1/20	7.50E+03	-3.34E+04	4.15E+04	-3.32E+04	4.14E+04	-8.14E+05	6.78E+05
1/15	1.33E+04	-4.28E+04	5.74E+04	-4.25E+04	5.73E+04	-8.38E+05	6.59E+05
1/10	2.99E+04	-5.91E+04	9.31E+04	-5.86E+04	9.30E+04	-8.85E+05	6.31E+05



Table Q-325. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	843.	-1.13E+04	1.25E+04	-1.12E+04	1.25E+04	-7.24E+05	6.98E+05
1/20	7.48E+03	-2.74E+04	3.93E+04	-2.72E+04	3.92E+04	-6.94E+05	6.35E+05
1/15	1.33E+04	-3.29E+04	5.36E+04	-3.27E+04	5.35E+04	-6.90E+05	6.03E+05
1/10	2.99E+04	-4.10E+04	8.22E+04	-4.07E+04	8.19E+04	-7.06E+05	5.20E+05

Table Q-326. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	695.	-1.16E+04	1.30E+04	-1.14E+04	1.24E+04	-7.24E+05	7.04E+05
1/20	3.60E+03	-3.52E+04	4.06E+04	-3.34E+04	3.86E+04	-7.39E+05	6.99E+05
1/15	1.80E+03	-5.02E+04	4.85E+04	-4.74E+04	4.69E+04	-7.38E+05	6.77E+05
1/10	-1.08E+04	-9.88E+04	1.30E+05	-9.32E+04	5.98E+04	-8.24E+05	7.06E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-327. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-328. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	71.7	-1.08E+04	1.17E+04	-1.06E+04	1.15E+04	-6.42E+05	6.88E+05
1/20	-144.	-3.24E+04	3.69E+04	-2.86E+04	3.53E+04	-5.70E+05	7.08E+05
1/15	-1.66E+03	-5.14E+04	4.42E+04	-3.96E+04	4.36E+04	-5.69E+05	6.79E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

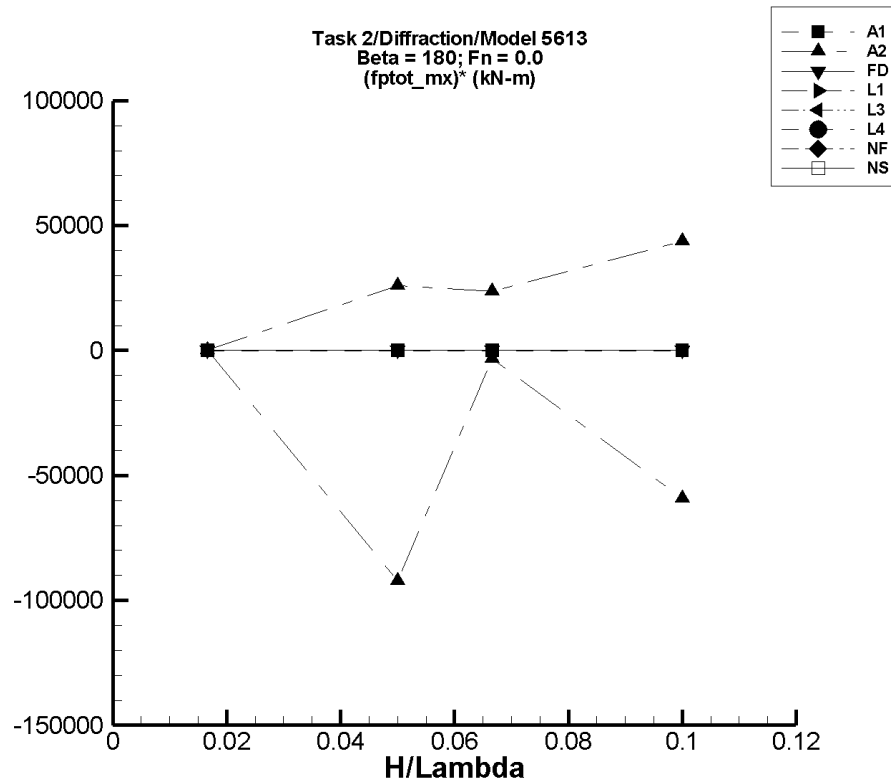


Figure Q-42. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-329. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	1.38E-05	-2.94E-02	2.99E-02	-2.91E-02	2.96E-02	-1.75	1.77
1/20	4.15E-05	-8.86E-02	8.99E-02	-8.75E-02	8.89E-02	-1.75	1.78
1/15	5.55E-05	-0.118	0.120	-0.117	0.119	-1.75	1.78
1/10	8.32E-05	-0.177	0.180	-0.175	0.178	-1.75	1.78

Table Q-330. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-1.98E-05	-1.74E-02	1.86E-02	-1.72E-02	1.83E-02	-1.03	1.10
1/20	-121.	-3.53E+04	8.83E+03	-4.73E+03	1.18E+03	-9.21E+04	2.60E+04
1/15	70.1	-7.00E-02	1.23E+04	-141.	1.65E+03	-3.16E+03	2.36E+04
1/10	-80.9	-4.48E+04	3.06E+04	-6.00E+03	4.29E+03	-5.92E+04	4.37E+04

Table Q-331. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	2.10E-05	-5.03E-03	4.25E-03	-1.00E-03	1.26E-03	-6.13E-02	7.41E-02
1/20	1.26E-04	-1.36E-02	1.31E-02	-2.82E-03	3.37E-03	-5.90E-02	6.49E-02
1/15	2.86E-04	-1.77E-02	2.17E-02	-3.80E-03	4.98E-03	-6.12E-02	7.05E-02
1/10	4.70E-04	-2.80E-02	3.82E-02	-5.38E-03	8.34E-03	-5.85E-02	7.87E-02

TASK 2/DIFFRACTION/MODEL 5613

Table Q–332. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–333. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–334. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–335. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–336. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.77E-04	-1.52E-02	1.61E-02	-2.57E-03	4.31E-03	-0.143	0.269
1/20	-6.69E-04	-4.15E-02	6.10E-02	-2.57E-02	1.86E-02	-0.501	0.386
1/15	-4.12E-04	-0.268	0.277	-1.37E-02	9.06E-03	-0.199	0.142
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

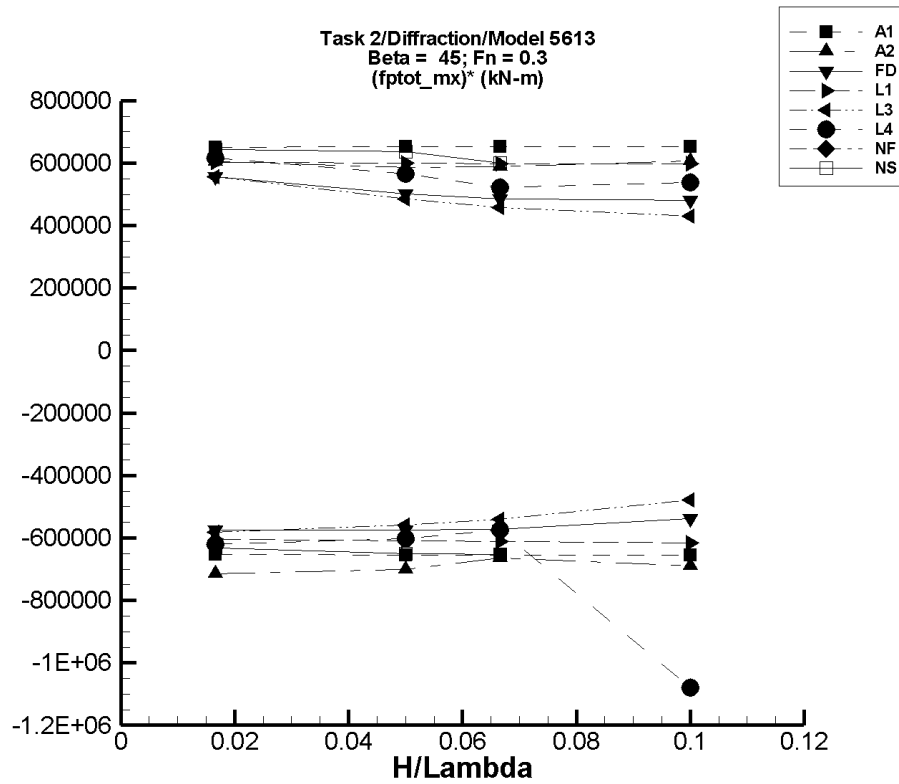


Figure Q-43. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-337. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-2.46	-1.09E+04	1.10E+04	-1.09E+04	1.08E+04	-6.53E+05	6.51E+05
1/20	-7.41	-3.28E+04	3.32E+04	-3.27E+04	3.26E+04	-6.55E+05	6.53E+05
1/15	-9.90	-4.38E+04	4.43E+04	-4.37E+04	4.36E+04	-6.56E+05	6.54E+05
1/10	-14.8	-6.57E+04	6.64E+04	-6.56E+04	6.54E+04	-6.56E+05	6.54E+05

Table Q-338. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	36.8	-1.20E+04	1.01E+04	-1.19E+04	1.01E+04	-7.14E+05	6.04E+05
1/20	-70.8	-3.56E+04	2.99E+04	-3.51E+04	2.92E+04	-7.01E+05	5.86E+05
1/15	-75.1	-4.51E+04	4.04E+04	-4.44E+04	3.92E+04	-6.65E+05	5.89E+05
1/10	-997.	-1.42E+05	5.87E+04	-6.99E+04	5.97E+04	-6.89E+05	6.07E+05



Table Q-339. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-4.21	-9.62E+03	9.27E+03	-9.60E+03	9.26E+03	-5.76E+05	5.56E+05
1/20	-6.05	-2.88E+04	2.51E+04	-2.87E+04	2.51E+04	-5.74E+05	5.02E+05
1/15	-6.76	-3.82E+04	3.24E+04	-3.81E+04	3.23E+04	-5.72E+05	4.85E+05
1/10	-41.8	-5.41E+04	4.81E+04	-5.39E+04	4.80E+04	-5.39E+05	4.80E+05

Table Q-340. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	723.	-9.38E+03	1.08E+04	-9.37E+03	1.08E+04	-6.06E+05	6.02E+05
1/20	6.51E+03	-2.40E+04	3.65E+04	-2.40E+04	3.65E+04	-6.09E+05	6.00E+05
1/15	1.16E+04	-2.92E+04	5.15E+04	-2.92E+04	5.15E+04	-6.11E+05	5.99E+05
1/10	2.60E+04	-3.56E+04	8.58E+04	-3.56E+04	8.57E+04	-6.16E+05	5.97E+05

Table Q-341. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	722.	-8.99E+03	1.00E+04	-8.98E+03	1.00E+04	-5.82E+05	5.57E+05
1/20	6.48E+03	-2.14E+04	3.07E+04	-2.14E+04	3.07E+04	-5.58E+05	4.85E+05
1/15	1.15E+04	-2.45E+04	4.21E+04	-2.45E+04	4.21E+04	-5.40E+05	4.59E+05
1/10	2.60E+04	-2.20E+04	6.90E+04	-2.19E+04	6.90E+04	-4.79E+05	4.30E+05

Table Q-342. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	1.01E+03	-9.41E+03	1.27E+04	-9.32E+03	1.13E+04	-6.20E+05	6.17E+05
1/20	6.33E+03	-2.47E+04	4.15E+04	-2.38E+04	3.46E+04	-6.03E+05	5.66E+05
1/15	6.15E+03	-3.32E+04	5.05E+04	-3.21E+04	4.09E+04	-5.74E+05	5.21E+05
1/10	-4.71E+03	-2.55E+05	6.77E+04	-1.13E+05	4.91E+04	-1.08E+06	5.38E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-343. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-344. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.74	-1.06E+04	1.08E+04	-1.05E+04	1.07E+04	-6.31E+05	6.44E+05
1/20	-1.41E+03	-3.56E+04	3.09E+04	-3.40E+04	3.05E+04	-6.51E+05	6.37E+05
1/15	-2.80E+03	-4.86E+04	3.83E+04	-4.62E+04	3.72E+04	-6.52E+05	6.00E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

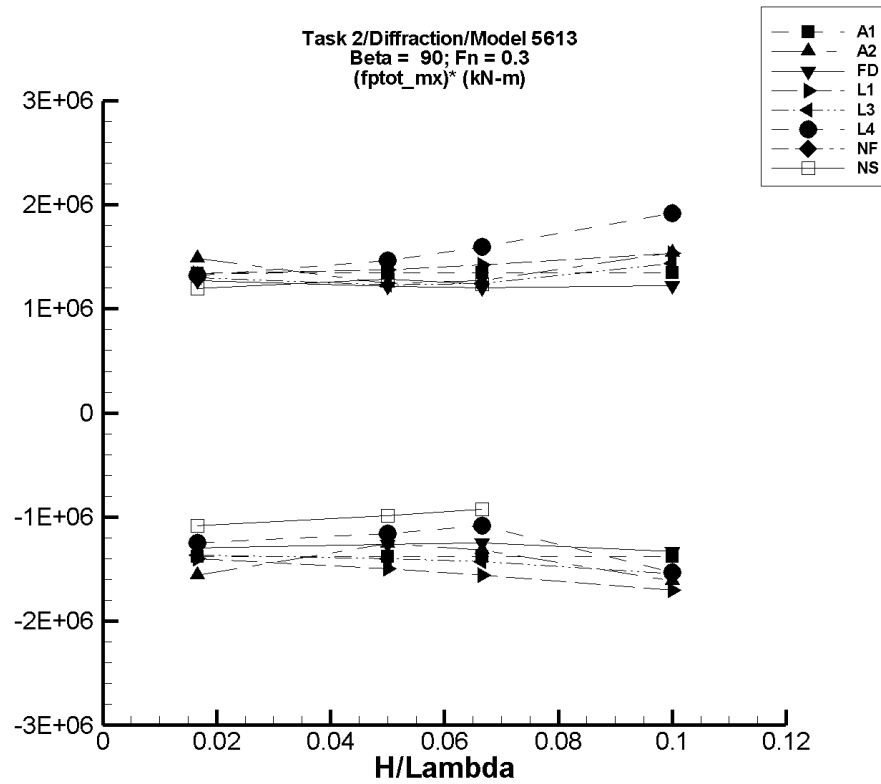


Figure Q-44. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-345. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	11.3	-2.29E+04	2.29E+04	-2.29E+04	2.24E+04	-1.38E+06	1.34E+06
1/20	33.9	-6.90E+04	6.90E+04	-6.89E+04	6.73E+04	-1.38E+06	1.34E+06
1/15	45.3	-9.21E+04	9.22E+04	-9.20E+04	8.98E+04	-1.38E+06	1.35E+06
1/10	67.9	-1.38E+05	1.38E+05	-1.38E+05	1.35E+05	-1.38E+06	1.35E+06

Table Q-346. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	19.5	-2.61E+04	2.63E+04	-2.59E+04	2.48E+04	-1.56E+06	1.49E+06
1/20	-254.	-6.61E+04	6.42E+04	-6.31E+04	6.19E+04	-1.26E+06	1.24E+06
1/15	110.	-9.29E+04	8.92E+04	-8.77E+04	8.48E+04	-1.32E+06	1.27E+06
1/10	121.	-1.73E+05	1.64E+05	-1.61E+05	1.54E+05	-1.62E+06	1.54E+06

Table Q-347. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-17.6	-2.17E+04	2.14E+04	-2.17E+04	2.11E+04	-1.30E+06	1.27E+06
1/20	-48.1	-6.35E+04	6.20E+04	-6.30E+04	6.08E+04	-1.26E+06	1.22E+06
1/15	-78.1	-8.45E+04	8.19E+04	-8.33E+04	8.03E+04	-1.25E+06	1.21E+06
1/10	110.	-1.34E+05	1.24E+05	-1.33E+05	1.23E+05	-1.33E+06	1.22E+06

Table Q-348. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	936.	-2.23E+04	2.33E+04	-2.24E+04	2.33E+04	-1.40E+06	1.34E+06
1/20	8.39E+03	-6.67E+04	7.76E+04	-6.63E+04	7.73E+04	-1.49E+06	1.38E+06
1/15	1.49E+04	-8.97E+04	1.10E+05	-8.91E+04	1.10E+05	-1.56E+06	1.42E+06
1/10	3.35E+04	-1.38E+05	1.88E+05	-1.37E+05	1.87E+05	-1.70E+06	1.54E+06

Table Q-349. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	928.	-2.17E+04	2.26E+04	-2.18E+04	2.25E+04	-1.36E+06	1.30E+06
1/20	8.37E+03	-6.16E+04	7.03E+04	-6.15E+04	7.00E+04	-1.40E+06	1.23E+06
1/15	1.49E+04	-8.10E+04	9.80E+04	-8.02E+04	9.78E+04	-1.43E+06	1.24E+06
1/10	3.36E+04	-1.22E+05	1.79E+05	-1.21E+05	1.78E+05	-1.55E+06	1.44E+06

Table Q-350. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	1.05E+03	-2.04E+04	2.42E+04	-1.98E+04	2.30E+04	-1.25E+06	1.32E+06
1/20	6.12E+03	-5.21E+04	8.34E+04	-5.17E+04	7.92E+04	-1.16E+06	1.46E+06
1/15	4.70E+03	-6.82E+04	1.18E+05	-6.73E+04	1.11E+05	-1.08E+06	1.59E+06
1/10	-1.62E+04	-3.13E+05	1.90E+05	-1.69E+05	1.76E+05	-1.53E+06	1.92E+06

Table Q-351. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-352. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-128.	-1.83E+04	2.00E+04	-1.82E+04	1.97E+04	-1.09E+06	1.19E+06
1/20	-1.28E+03	-5.40E+04	6.67E+04	-5.08E+04	6.29E+04	-9.90E+05	1.28E+06
1/15	-1.02E+03	-6.39E+04	8.62E+04	-6.27E+04	8.14E+04	-9.25E+05	1.24E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

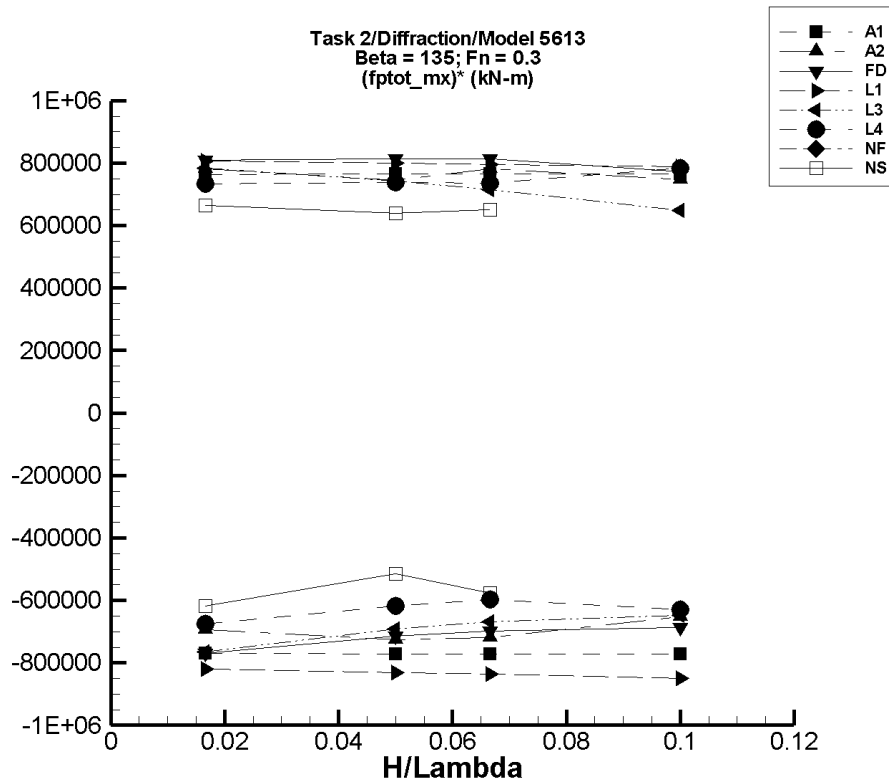


Figure Q-45. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-353. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	2.42	-1.31E+04	1.30E+04	-1.28E+04	1.27E+04	-7.69E+05	7.63E+05
1/20	7.29	-3.94E+04	3.92E+04	-3.85E+04	3.82E+04	-7.71E+05	7.65E+05
1/15	9.74	-5.26E+04	5.24E+04	-5.14E+04	5.11E+04	-7.72E+05	7.66E+05
1/10	14.6	-7.90E+04	7.86E+04	-7.72E+04	7.66E+04	-7.72E+05	7.66E+05

Table Q-354. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	43.8	-1.20E+04	1.38E+04	-1.15E+04	1.31E+04	-6.93E+05	7.81E+05
1/20	155.	-3.74E+04	4.08E+04	-3.61E+04	3.75E+04	-7.25E+05	7.46E+05
1/15	70.9	-4.93E+04	5.51E+04	-4.78E+04	5.21E+04	-7.18E+05	7.81E+05
1/10	182.	-6.62E+04	8.01E+04	-6.51E+04	7.50E+04	-6.53E+05	7.48E+05

Table Q-355. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	8.27	-1.30E+04	1.38E+04	-1.28E+04	1.35E+04	-7.70E+05	8.09E+05
1/20	41.0	-3.61E+04	4.19E+04	-3.56E+04	4.08E+04	-7.13E+05	8.14E+05
1/15	25.8	-4.71E+04	5.58E+04	-4.65E+04	5.43E+04	-6.98E+05	8.14E+05
1/10	27.2	-6.94E+04	7.95E+04	-6.85E+04	7.74E+04	-6.86E+05	7.73E+05

Table Q-356. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	618.	-1.31E+04	1.42E+04	-1.30E+04	1.41E+04	-8.19E+05	8.08E+05
1/20	5.55E+03	-3.63E+04	4.58E+04	-3.60E+04	4.55E+04	-8.31E+05	7.99E+05
1/15	9.86E+03	-4.64E+04	6.33E+04	-4.59E+04	6.29E+04	-8.36E+05	7.95E+05
1/10	2.22E+04	-6.36E+04	1.02E+05	-6.28E+04	1.01E+05	-8.50E+05	7.89E+05

Table Q-357. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	619.	-1.22E+04	1.38E+04	-1.21E+04	1.37E+04	-7.65E+05	7.83E+05
1/20	5.59E+03	-2.93E+04	4.30E+04	-2.90E+04	4.27E+04	-6.93E+05	7.42E+05
1/15	9.91E+03	-3.50E+04	5.79E+04	-3.47E+04	5.76E+04	-6.69E+05	7.16E+05
1/10	2.22E+04	-4.30E+04	8.75E+04	-4.25E+04	8.71E+04	-6.47E+05	6.49E+05

Table Q-358. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	678.	-1.12E+04	1.32E+04	-1.06E+04	1.29E+04	-6.74E+05	7.34E+05
1/20	3.89E+03	-3.13E+04	4.14E+04	-2.70E+04	4.08E+04	-6.18E+05	7.38E+05
1/15	2.67E+03	-4.26E+04	5.26E+04	-3.72E+04	5.18E+04	-5.98E+05	7.37E+05
1/10	-8.82E+03	-9.09E+04	1.52E+05	-7.18E+04	6.96E+04	-6.30E+05	7.84E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-359. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-360. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-12.8	-1.04E+04	1.14E+04	-1.03E+04	1.11E+04	-6.18E+05	6.65E+05
1/20	-453.	-4.00E+04	3.39E+04	-2.62E+04	3.16E+04	-5.15E+05	6.40E+05
1/15	-2.03E+03	-6.38E+04	4.21E+04	-4.05E+04	4.14E+04	-5.77E+05	6.52E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

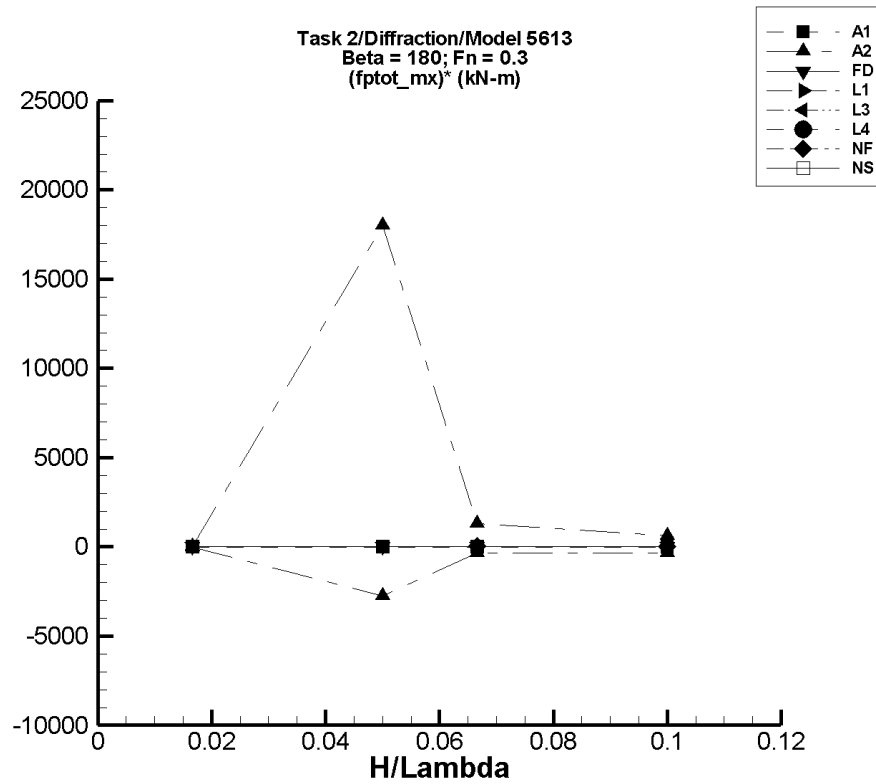


Figure Q-46. Minimum and maximum of filtered  $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-361. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-8.94E-04	-0.121	0.116	-0.117	0.113	-6.96	6.82
1/20	-2.69E-03	-0.363	0.349	-0.352	0.339	-6.98	6.84
1/15	-3.59E-03	-0.484	0.467	-0.469	0.453	-6.99	6.85
1/10	-5.38E-03	-0.726	0.700	-0.704	0.679	-6.99	6.85

Table Q-362. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.28E-04	-9.99E-02	9.53E-02	-9.66E-02	9.25E-02	-5.74	5.60
1/20	56.0	-0.300	7.17E+03	-82.2	956.	-2.76E+03	1.80E+04
1/15	14.5	-0.399	759.	-8.43	102.	-344.	1.31E+03
1/10	3.97	-200.	475.	-31.7	64.4	-356.	605.

Table Q-363. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.54E-05	-3.39E-03	3.89E-03	-2.57E-03	2.46E-03	-0.157	0.145
1/20	-9.03E-05	-1.03E-02	1.02E-02	-7.94E-03	6.81E-03	-0.157	0.138
1/15	-4.86E-05	-1.35E-02	1.57E-02	-1.04E-02	1.04E-02	-0.156	0.157
1/10	8.97E-04	-2.05E-02	2.68E-02	-1.65E-02	1.61E-02	-0.174	0.153

TASK 2/DIFFRACTION/MODEL 5613

Table Q-364. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-365. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-366. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$	Unfiltered $M_x^{\text{ptot}}$		Filtered $M_x^{\text{ptot}}$		Filtered $(M_x^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-367. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	-5.55E-12	-7.42E-11	9.10E-11	-5.49E-11	6.55E-11	-9.87E-10	1.42E-09
1/15	3.50E-11	-1.61E-10	1.57E-10	-1.18E-10	1.01E-10	-2.30E-09	9.87E-10
1/10	3.73E-11	-3.78E-10	3.04E-10	-2.82E-10	1.99E-10	-3.20E-09	1.62E-09

Table Q-368. Minimum and Maximum of Variables  $M_x^{\text{ptot}}$  and  $(M_x^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	-4.03E-04	-9.51E-02	0.112	-5.11E-03	3.27E-03	-0.282	0.220
1/20	-8.21E-04	-7.19E-02	0.111	-2.84E-02	1.22E-02	-0.552	0.261
1/15	-5.26E-04	-0.504	0.470	-2.77E-02	1.63E-02	-0.407	0.252
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

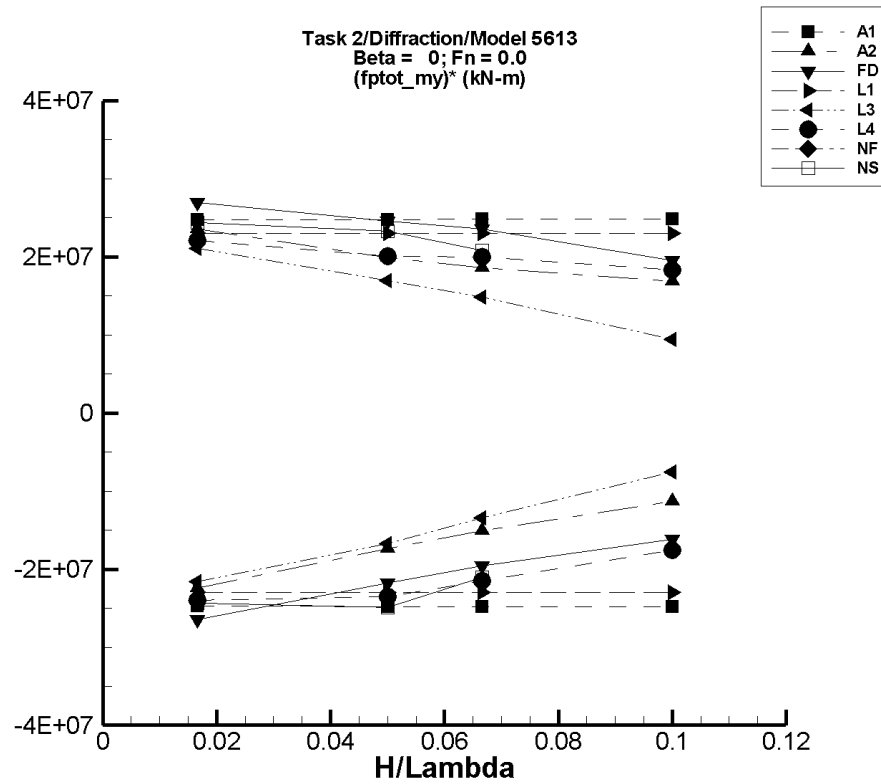


Figure Q-47. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-369. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>M_y^{\text{ptot}}</math></b>		<b>Filtered <math>M_y^{\text{ptot}}</math></b>		<b>Filtered <math>(M_y^{\text{ptot}})^*</math></b>	
	<b>Mean</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-668.	-4.17E+05	4.16E+05	-4.13E+05	4.11E+05	-2.47E+07	2.47E+07
1/20	-2.01E+03	-1.26E+06	1.25E+06	-1.24E+06	1.24E+06	-2.48E+07	2.48E+07
1/15	-2.68E+03	-1.68E+06	1.67E+06	-1.66E+06	1.65E+06	-2.48E+07	2.48E+07
1/10	-4.02E+03	-2.51E+06	2.50E+06	-2.49E+06	2.48E+06	-2.48E+07	2.48E+07

Table Q-370. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	<b>Unfiltered <math>M_y^{\text{ptot}}</math></b>		<b>Filtered <math>M_y^{\text{ptot}}</math></b>		<b>Filtered <math>(M_y^{\text{ptot}})^*</math></b>	
	<b>Mean</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	3.33E+04	-3.44E+05	4.29E+05	-3.41E+05	4.26E+05	-2.25E+07	2.35E+07
1/20	1.67E+05	-7.34E+05	1.19E+06	-7.00E+05	1.16E+06	-1.73E+07	1.99E+07
1/15	2.67E+05	-7.71E+05	1.52E+06	-7.41E+05	1.50E+06	-1.51E+07	1.86E+07
1/10	4.59E+05	-7.20E+05	2.27E+06	-6.73E+05	2.15E+06	-1.13E+07	1.69E+07

Table Q-371. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.11E+04	-4.24E+05	4.74E+05	-4.20E+05	4.70E+05	-2.64E+07	2.69E+07
1/20	1.43E+05	-9.48E+05	1.38E+06	-9.44E+05	1.37E+06	-2.17E+07	2.46E+07
1/15	2.37E+05	-1.08E+06	1.82E+06	-1.07E+06	1.81E+06	-1.96E+07	2.35E+07
1/10	4.01E+05	-1.24E+06	2.38E+06	-1.22E+06	2.36E+06	-1.62E+07	1.96E+07

Table Q-372. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.94E+03	-3.89E+05	3.79E+05	-3.87E+05	3.78E+05	-2.29E+07	2.30E+07
1/20	-4.22E+04	-1.19E+06	1.11E+06	-1.19E+06	1.11E+06	-2.29E+07	2.30E+07
1/15	-7.45E+04	-1.61E+06	1.46E+06	-1.60E+06	1.46E+06	-2.29E+07	2.30E+07
1/10	-1.67E+05	-2.47E+06	2.14E+06	-2.46E+06	2.13E+06	-2.30E+07	2.30E+07

Table Q-373. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.87E+03	-3.56E+05	3.59E+05	-3.55E+05	3.57E+05	-2.16E+07	2.11E+07
1/20	6.92E+04	-7.75E+05	9.20E+05	-7.66E+05	9.17E+05	-1.67E+07	1.69E+07
1/15	1.10E+05	-7.90E+05	1.10E+06	-7.82E+05	1.10E+06	-1.34E+07	1.49E+07
1/10	1.30E+05	-6.32E+05	1.07E+06	-6.30E+05	1.07E+06	-7.60E+06	9.40E+06

Table Q-374. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.14E+03	-4.00E+05	3.73E+05	-3.96E+05	3.72E+05	-2.40E+07	2.21E+07
1/20	7.52E+04	-1.11E+06	1.09E+06	-1.10E+06	1.08E+06	-2.35E+07	2.01E+07
1/15	1.56E+05	-1.29E+06	1.52E+06	-1.28E+06	1.49E+06	-2.15E+07	1.99E+07
1/10	2.95E+05	-1.48E+06	2.20E+06	-1.46E+06	2.13E+06	-1.76E+07	1.83E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-375. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-376. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.84E+04	-4.88E+05	3.33E+05	-4.83E+05	3.29E+05	-2.43E+07	2.44E+07
1/20	-8.93E+04	-1.34E+06	1.09E+06	-1.34E+06	1.08E+06	-2.49E+07	2.33E+07
1/15	-1.95E+05	-1.60E+06	1.21E+06	-1.60E+06	1.19E+06	-2.10E+07	2.08E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

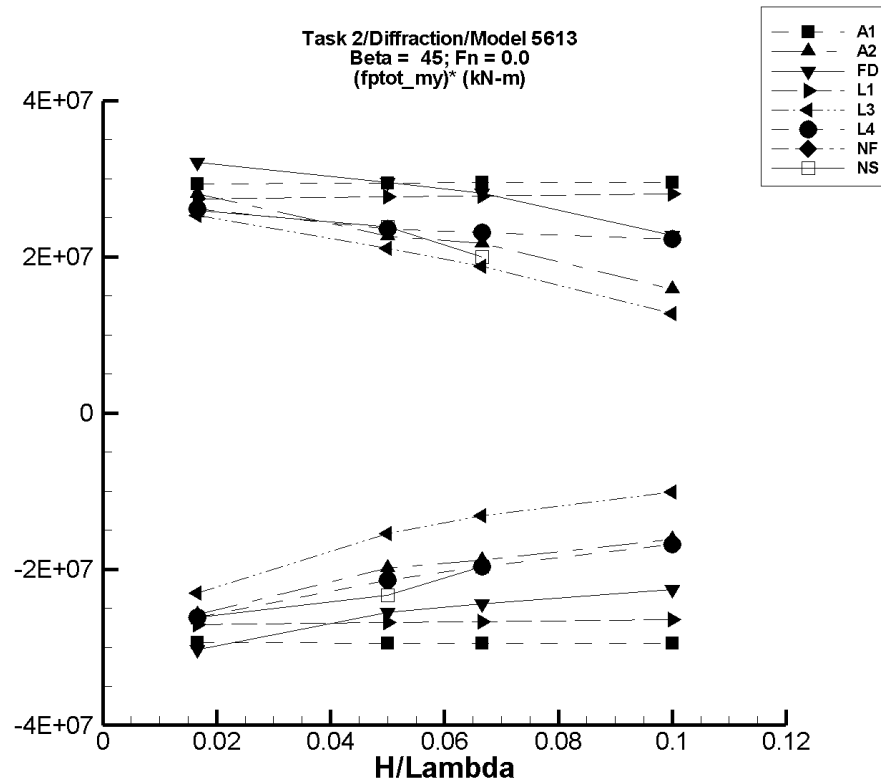


Figure Q-48. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-377. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-711.	-4.96E+05	4.94E+05	-4.91E+05	4.89E+05	-2.94E+07	2.94E+07
1/20	-2.14E+03	-1.49E+06	1.49E+06	-1.48E+06	1.47E+06	-2.95E+07	2.95E+07
1/15	-2.86E+03	-1.99E+06	1.98E+06	-1.97E+06	1.96E+06	-2.95E+07	2.95E+07
1/10	-4.29E+03	-2.99E+06	2.98E+06	-2.96E+06	2.95E+06	-2.95E+07	2.95E+07

Table Q-378. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.34E+04	-4.05E+05	5.06E+05	-3.97E+05	5.00E+05	-2.58E+07	2.80E+07
1/20	1.68E+05	-8.35E+05	1.32E+06	-8.23E+05	1.30E+06	-1.98E+07	2.26E+07
1/15	2.67E+05	-1.01E+06	1.73E+06	-9.92E+05	1.72E+06	-1.89E+07	2.17E+07
1/10	3.84E+05	-1.25E+06	2.00E+06	-1.23E+06	1.96E+06	-1.62E+07	1.58E+07



Table Q-379. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.14E+04	-4.88E+05	5.62E+05	-4.83E+05	5.57E+05	-3.03E+07	3.21E+07
1/20	1.41E+05	-1.15E+06	1.63E+06	-1.14E+06	1.62E+06	-2.56E+07	2.95E+07
1/15	2.33E+05	-1.41E+06	2.13E+06	-1.40E+06	2.11E+06	-2.45E+07	2.82E+07
1/10	3.95E+05	-1.89E+06	2.69E+06	-1.87E+06	2.67E+06	-2.26E+07	2.27E+07

Table Q-380. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.93E+03	-4.56E+05	4.57E+05	-4.54E+05	4.55E+05	-2.71E+07	2.74E+07
1/20	-1.60E+04	-1.36E+06	1.37E+06	-1.36E+06	1.37E+06	-2.69E+07	2.77E+07
1/15	-2.81E+04	-1.82E+06	1.83E+06	-1.81E+06	1.83E+06	-2.67E+07	2.78E+07
1/10	-6.25E+04	-2.72E+06	2.76E+06	-2.71E+06	2.75E+06	-2.65E+07	2.81E+07

Table Q-381. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.03E+03	-3.76E+05	4.32E+05	-3.75E+05	4.30E+05	-2.31E+07	2.53E+07
1/20	9.25E+04	-6.81E+05	1.15E+06	-6.79E+05	1.15E+06	-1.54E+07	2.11E+07
1/15	1.52E+05	-7.24E+05	1.41E+06	-7.22E+05	1.40E+06	-1.31E+07	1.88E+07
1/10	2.31E+05	-7.84E+05	1.51E+06	-7.80E+05	1.50E+06	-1.01E+07	1.27E+07

Table Q-382. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.90E+03	-4.33E+05	4.45E+05	-4.30E+05	4.42E+05	-2.62E+07	2.61E+07
1/20	1.02E+05	-9.85E+05	1.29E+06	-9.70E+05	1.28E+06	-2.14E+07	2.36E+07
1/15	1.91E+05	-1.14E+06	1.77E+06	-1.12E+06	1.73E+06	-1.96E+07	2.31E+07
1/10	3.81E+05	-1.39E+06	2.98E+06	-1.30E+06	2.61E+06	-1.69E+07	2.23E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q–383. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–384. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.83E+04	-5.19E+05	3.57E+05	-5.15E+05	3.53E+05	-2.62E+07	2.59E+07
1/20	-8.66E+04	-1.27E+06	1.19E+06	-1.25E+06	1.11E+06	-2.34E+07	2.38E+07
1/15	-1.81E+05	-1.51E+06	1.18E+06	-1.49E+06	1.15E+06	-1.97E+07	2.00E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

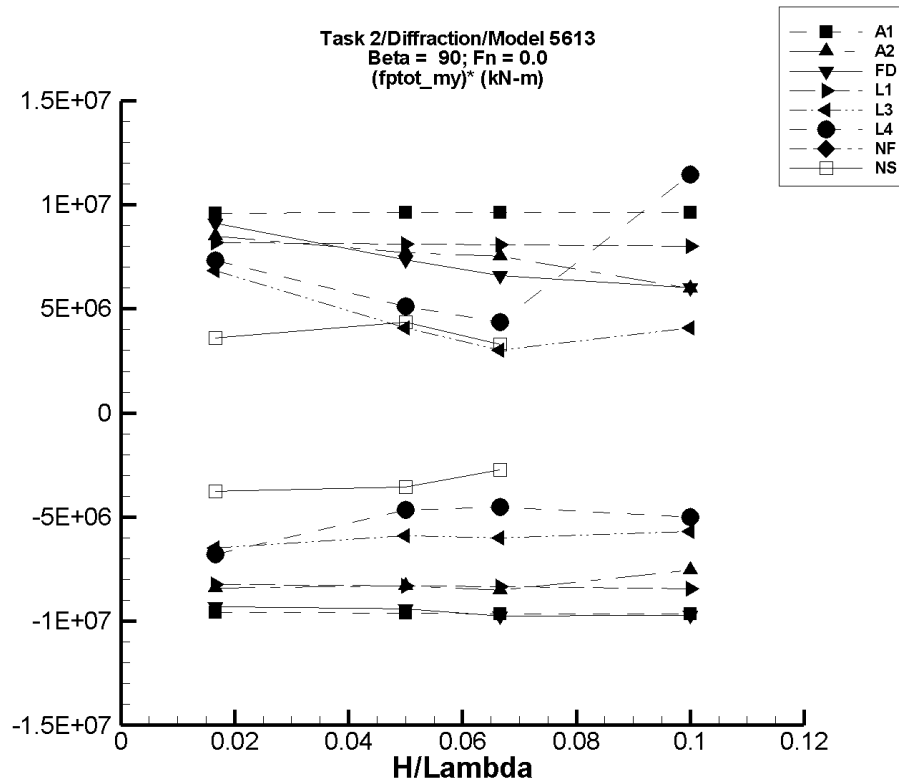


Figure Q-49. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-385. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	203.	-1.61E+05	1.62E+05	-1.60E+05	1.60E+05	-9.59E+06	9.60E+06
1/20	610.	-4.85E+05	4.88E+05	-4.80E+05	4.82E+05	-9.62E+06	9.62E+06
1/15	815.	-6.48E+05	6.51E+05	-6.41E+05	6.43E+05	-9.63E+06	9.63E+06
1/10	1.22E+03	-9.72E+05	9.77E+05	-9.62E+05	9.65E+05	-9.63E+06	9.63E+06

Table Q-386. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.44E+04	-1.10E+05	1.76E+05	-1.06E+05	1.76E+05	-8.40E+06	8.47E+06
1/20	1.75E+05	-2.56E+05	5.69E+05	-2.39E+05	5.60E+05	-8.29E+06	7.70E+06
1/15	2.75E+05	-3.21E+05	8.03E+05	-2.93E+05	7.77E+05	-8.52E+06	7.53E+06
1/10	3.80E+05	-4.21E+05	1.03E+06	-3.76E+05	9.78E+05	-7.56E+06	5.98E+06

Table Q-387. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.17E+04	-1.36E+05	1.75E+05	-1.34E+05	1.73E+05	-9.31E+06	9.10E+06
1/20	1.44E+05	-3.39E+05	5.16E+05	-3.27E+05	5.11E+05	-9.41E+06	7.34E+06
1/15	2.39E+05	-4.29E+05	6.86E+05	-4.11E+05	6.79E+05	-9.75E+06	6.60E+06
1/10	4.03E+05	-5.99E+05	1.02E+06	-5.70E+05	1.00E+06	-9.73E+06	6.00E+06

Table Q-388. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.49E+03	-1.39E+05	1.35E+05	-1.39E+05	1.35E+05	-8.24E+06	8.18E+06
1/20	-1.30E+04	-4.30E+05	3.94E+05	-4.29E+05	3.92E+05	-8.31E+06	8.11E+06
1/15	-2.30E+04	-5.82E+05	5.17E+05	-5.80E+05	5.15E+05	-8.35E+06	8.08E+06
1/10	-5.16E+04	-8.98E+05	7.53E+05	-8.95E+05	7.50E+05	-8.43E+06	8.02E+06

Table Q-389. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.62E+03	-9.90E+04	1.24E+05	-9.84E+04	1.24E+05	-6.48E+06	6.84E+06
1/20	9.77E+04	-2.02E+05	3.03E+05	-1.97E+05	3.02E+05	-5.90E+06	4.09E+06
1/15	1.60E+05	-2.46E+05	3.63E+05	-2.40E+05	3.62E+05	-6.00E+06	3.03E+06
1/10	2.42E+05	-3.37E+05	6.55E+05	-3.28E+05	6.51E+05	-5.71E+06	4.09E+06

Table Q-390. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.01E+03	-1.07E+05	1.31E+05	-1.05E+05	1.30E+05	-6.79E+06	7.33E+06
1/20	9.97E+04	-1.67E+05	3.82E+05	-1.34E+05	3.55E+05	-4.67E+06	5.10E+06
1/15	1.64E+05	-1.85E+05	4.75E+05	-1.38E+05	4.55E+05	-4.53E+06	4.37E+06
1/10	3.27E+05	-3.97E+05	2.47E+06	-1.74E+05	1.47E+06	-5.01E+06	1.15E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-391. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-392. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.78E+04	-1.44E+05	-1.18E+04	-1.40E+05	-1.79E+04	-3.75E+06	3.59E+06
1/20	-8.54E+04	-2.95E+05	1.85E+05	-2.63E+05	1.32E+05	-3.55E+06	4.35E+06
1/15	-1.68E+05	-3.74E+05	4.77E+05	-3.51E+05	5.09E+04	-2.74E+06	3.29E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

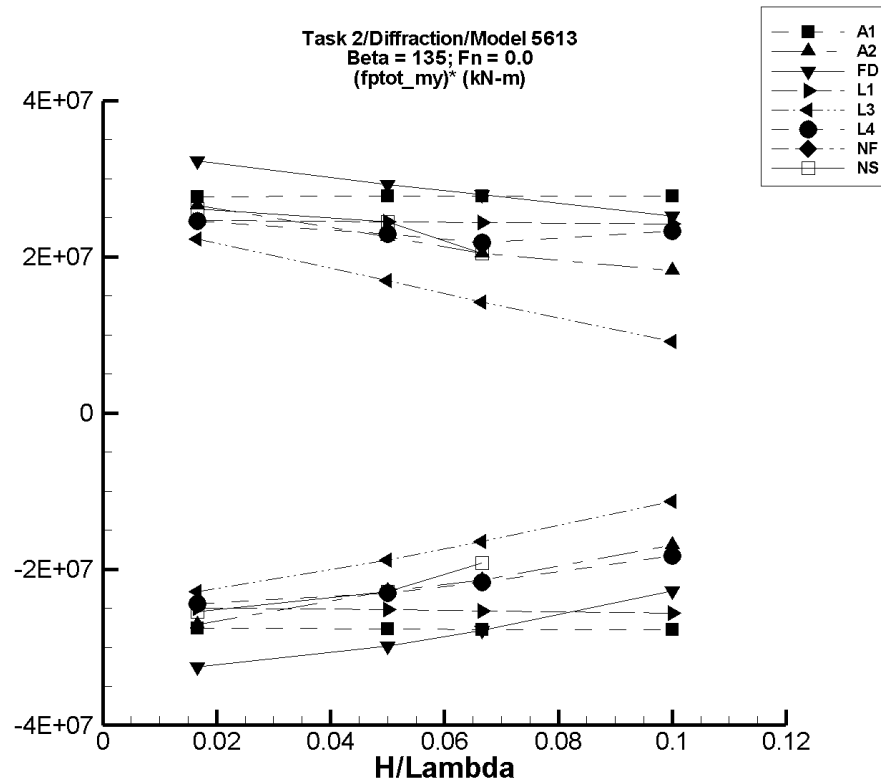


Figure Q-50. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-393. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	846.	-4.64E+05	4.66E+05	-4.59E+05	4.62E+05	-2.76E+07	2.77E+07
1/20	2.54E+03	-1.40E+06	1.40E+06	-1.38E+06	1.39E+06	-2.77E+07	2.78E+07
1/15	3.40E+03	-1.86E+06	1.87E+06	-1.84E+06	1.86E+06	-2.77E+07	2.78E+07
1/10	5.10E+03	-2.79E+06	2.81E+06	-2.77E+06	2.78E+06	-2.77E+07	2.78E+07

Table Q-394. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.51E+04	-4.22E+05	4.84E+05	-4.17E+05	4.79E+05	-2.72E+07	2.66E+07
1/20	1.73E+05	-1.00E+06	1.31E+06	-9.68E+05	1.30E+06	-2.28E+07	2.25E+07
1/15	2.70E+05	-1.21E+06	1.65E+06	-1.15E+06	1.63E+06	-2.14E+07	2.04E+07
1/10	3.76E+05	-1.35E+06	2.27E+06	-1.31E+06	2.20E+06	-1.69E+07	1.82E+07

Table Q-395. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.21E+04	-5.26E+05	5.65E+05	-5.20E+05	5.60E+05	-3.25E+07	3.22E+07
1/20	1.45E+05	-1.37E+06	1.62E+06	-1.35E+06	1.61E+06	-2.98E+07	2.92E+07
1/15	2.39E+05	-1.64E+06	2.13E+06	-1.62E+06	2.10E+06	-2.78E+07	2.80E+07
1/10	4.04E+05	-1.91E+06	2.96E+06	-1.87E+06	2.93E+06	-2.28E+07	2.52E+07

Table Q-396. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.22E+03	-4.21E+05	4.10E+05	-4.19E+05	4.08E+05	-2.50E+07	2.47E+07
1/20	-3.16E+04	-1.30E+06	1.20E+06	-1.29E+06	1.19E+06	-2.52E+07	2.45E+07
1/15	-5.69E+04	-1.75E+06	1.57E+06	-1.75E+06	1.57E+06	-2.53E+07	2.44E+07
1/10	-1.29E+05	-2.70E+06	2.30E+06	-2.69E+06	2.29E+06	-2.56E+07	2.42E+07

Table Q-397. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.74E+03	-3.74E+05	3.80E+05	-3.73E+05	3.79E+05	-2.28E+07	2.23E+07
1/20	7.72E+04	-8.73E+05	9.28E+05	-8.63E+05	9.26E+05	-1.88E+07	1.70E+07
1/15	1.24E+05	-9.85E+05	1.07E+06	-9.71E+05	1.07E+06	-1.64E+07	1.42E+07
1/10	1.62E+05	-9.81E+05	1.08E+06	-9.68E+05	1.08E+06	-1.13E+07	9.17E+06

Table Q-398. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.69E+03	-4.14E+05	4.11E+05	-4.11E+05	4.05E+05	-2.44E+07	2.45E+07
1/20	-1.47E+04	-1.18E+06	1.15E+06	-1.17E+06	1.13E+06	-2.30E+07	2.30E+07
1/15	-3.24E+04	-1.50E+06	1.45E+06	-1.48E+06	1.42E+06	-2.17E+07	2.18E+07
1/10	4.31E+04	-1.80E+06	2.63E+06	-1.78E+06	2.37E+06	-1.83E+07	2.32E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-399. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-400. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.69E+04	-5.07E+05	3.64E+05	-5.02E+05	3.59E+05	-2.55E+07	2.61E+07
1/20	-8.36E+04	-1.24E+06	1.18E+06	-1.23E+06	1.14E+06	-2.29E+07	2.45E+07
1/15	-1.79E+05	-1.46E+06	1.21E+06	-1.46E+06	1.18E+06	-1.92E+07	2.05E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

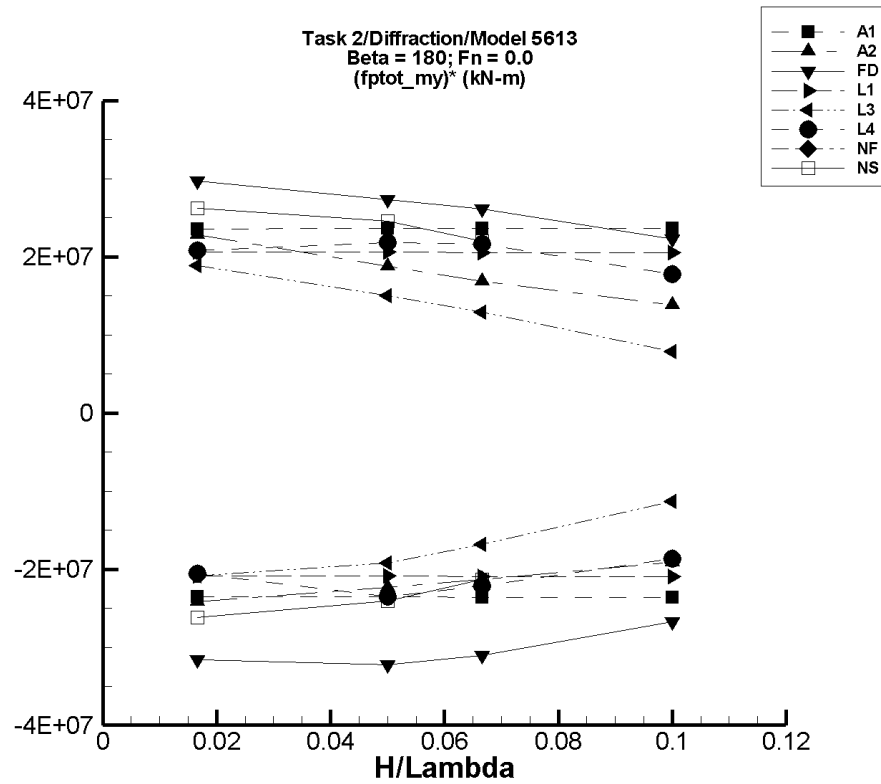


Figure Q-51. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-401. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	642.	-3.94E+05	3.99E+05	-3.91E+05	3.93E+05	-2.35E+07	2.35E+07
1/20	1.93E+03	-1.19E+06	1.20E+06	-1.18E+06	1.18E+06	-2.36E+07	2.36E+07
1/15	2.58E+03	-1.58E+06	1.60E+06	-1.57E+06	1.58E+06	-2.36E+07	2.36E+07
1/10	3.87E+03	-2.38E+06	2.40E+06	-2.36E+06	2.37E+06	-2.36E+07	2.36E+07

Table Q-402. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.46E+04	-3.72E+05	4.22E+05	-3.69E+05	4.15E+05	-2.42E+07	2.28E+07
1/20	1.73E+05	-9.66E+05	1.14E+06	-9.43E+05	1.11E+06	-2.23E+07	1.88E+07
1/15	2.72E+05	-1.18E+06	1.42E+06	-1.15E+06	1.39E+06	-2.14E+07	1.68E+07
1/10	4.63E+05	-1.52E+06	1.89E+06	-1.45E+06	1.85E+06	-1.91E+07	1.38E+07

Table Q-403. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.10E+04	-5.11E+05	5.21E+05	-5.05E+05	5.16E+05	-3.16E+07	2.97E+07
1/20	1.43E+05	-1.50E+06	1.52E+06	-1.47E+06	1.51E+06	-3.22E+07	2.73E+07
1/15	2.38E+05	-1.87E+06	1.99E+06	-1.83E+06	1.98E+06	-3.10E+07	2.61E+07
1/10	4.02E+05	-2.31E+06	2.65E+06	-2.27E+06	2.63E+06	-2.67E+07	2.23E+07

Table Q-404. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.57E+03	-3.48E+05	3.44E+05	-3.49E+05	3.43E+05	-2.08E+07	2.06E+07
1/20	-1.56E+04	-1.06E+06	1.02E+06	-1.06E+06	1.01E+06	-2.09E+07	2.06E+07
1/15	-2.81E+04	-1.42E+06	1.35E+06	-1.42E+06	1.34E+06	-2.09E+07	2.06E+07
1/10	-6.40E+04	-2.16E+06	1.99E+06	-2.16E+06	1.99E+06	-2.10E+07	2.05E+07



Table Q-405. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.01E+03	-3.39E+05	3.25E+05	-3.38E+05	3.24E+05	-2.08E+07	1.89E+07
1/20	9.64E+04	-8.79E+05	8.49E+05	-8.66E+05	8.45E+05	-1.93E+07	1.50E+07
1/15	1.57E+05	-9.72E+05	1.02E+06	-9.63E+05	1.02E+06	-1.68E+07	1.29E+07
1/10	2.32E+05	-9.08E+05	1.02E+06	-8.99E+05	1.02E+06	-1.13E+07	7.83E+06

Table Q-406. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-998.	-3.49E+05	3.50E+05	-3.44E+05	3.46E+05	-2.06E+07	2.08E+07
1/20	8.33E+03	-1.20E+06	1.20E+06	-1.17E+06	1.10E+06	-2.35E+07	2.18E+07
1/15	1.96E+04	-1.52E+06	1.62E+06	-1.46E+06	1.46E+06	-2.22E+07	2.16E+07
1/10	8.70E+04	-1.83E+06	2.18E+06	-1.78E+06	1.86E+06	-1.87E+07	1.77E+07

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Table Q-407. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-408. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.71E+04	-5.18E+05	3.65E+05	-5.14E+05	3.59E+05	-2.62E+07	2.62E+07
1/20	-8.78E+04	-1.32E+06	1.16E+06	-1.29E+06	1.14E+06	-2.41E+07	2.46E+07
1/15	-1.95E+05	-1.65E+06	1.28E+06	-1.62E+06	1.27E+06	-2.13E+07	2.20E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

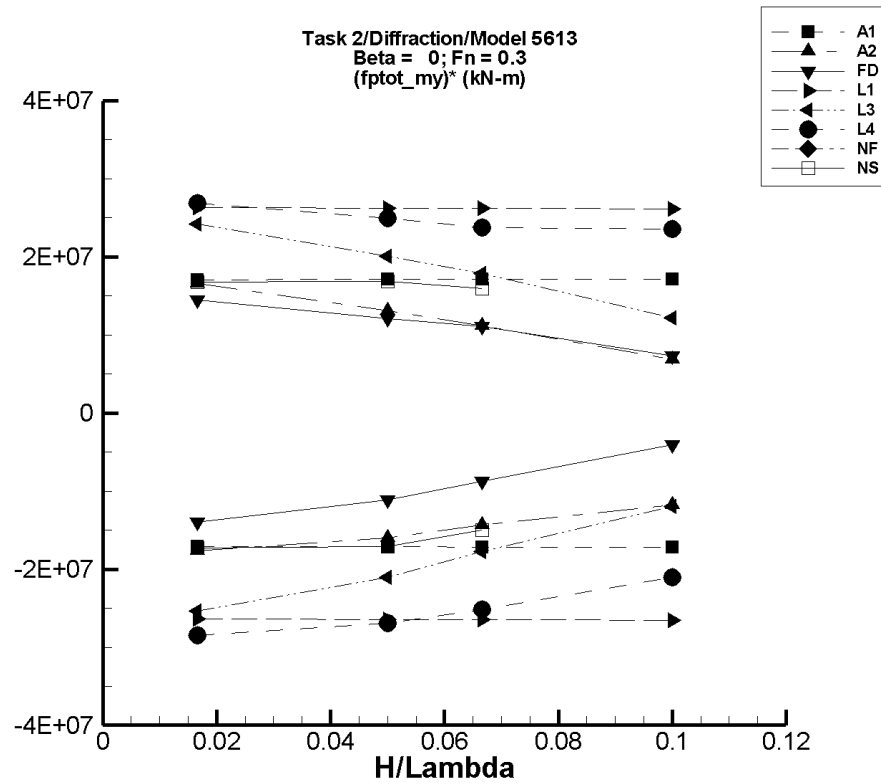


Figure Q-52. Minimum and maximum of filtered  $(M_y^{ptot} - \langle M_y^{ptot} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-409. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	102.	-2.86E+05	2.90E+05	-2.85E+05	2.84E+05	-1.71E+07	1.71E+07
1/20	308.	-8.60E+05	8.73E+05	-8.57E+05	8.56E+05	-1.71E+07	1.71E+07
1/15	410.	-1.15E+06	1.17E+06	-1.14E+06	1.14E+06	-1.72E+07	1.71E+07
1/10	616.	-1.72E+06	1.75E+06	-1.72E+06	1.71E+06	-1.72E+07	1.71E+07

Table Q-410. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.41E+04	-2.61E+05	3.11E+05	-2.61E+05	3.11E+05	-1.77E+07	1.66E+07
1/20	1.70E+05	-6.47E+05	8.34E+05	-6.32E+05	8.26E+05	-1.60E+07	1.31E+07
1/15	2.69E+05	-7.13E+05	1.03E+06	-6.87E+05	1.01E+06	-1.43E+07	1.11E+07
1/10	4.56E+05	-7.57E+05	1.19E+06	-7.19E+05	1.14E+06	-1.18E+07	6.81E+06

Table Q-411. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.11E+04	-2.12E+05	2.62E+05	-2.12E+05	2.61E+05	-1.40E+07	1.44E+07
1/20	1.43E+05	-4.15E+05	7.48E+05	-4.13E+05	7.47E+05	-1.11E+07	1.21E+07
1/15	2.37E+05	-3.49E+05	9.75E+05	-3.48E+05	9.74E+05	-8.78E+06	1.11E+07
1/10	4.01E+05	-9.89E+03	1.14E+06	-9.02E+03	1.13E+06	-4.10E+06	7.34E+06

Table Q-412. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.18E+04	-4.51E+05	4.27E+05	-4.51E+05	4.27E+05	-2.64E+07	2.63E+07
1/20	-1.86E+04	-1.34E+06	1.29E+06	-1.34E+06	1.29E+06	-2.64E+07	2.62E+07
1/15	-2.43E+04	-1.79E+06	1.72E+06	-1.79E+06	1.72E+06	-2.65E+07	2.62E+07
1/10	-4.02E+04	-2.70E+06	2.57E+06	-2.70E+06	2.57E+06	-2.66E+07	2.61E+07

Table Q-413. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-649.	-4.23E+05	4.03E+05	-4.23E+05	4.03E+05	-2.53E+07	2.42E+07
1/20	9.44E+04	-9.58E+05	1.10E+06	-9.58E+05	1.10E+06	-2.10E+07	2.00E+07
1/15	1.62E+05	-1.02E+06	1.35E+06	-1.02E+06	1.35E+06	-1.77E+07	1.79E+07
1/10	2.58E+05	-9.45E+05	1.48E+06	-9.42E+05	1.48E+06	-1.20E+07	1.22E+07

Table Q-414. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.66E+04	-5.05E+05	4.23E+05	-5.01E+05	4.21E+05	-2.85E+07	2.69E+07
1/20	4.33E+04	-1.31E+06	1.29E+06	-1.31E+06	1.29E+06	-2.70E+07	2.49E+07
1/15	1.25E+05	-1.57E+06	1.72E+06	-1.55E+06	1.71E+06	-2.52E+07	2.38E+07
1/10	3.04E+05	-1.83E+06	3.08E+06	-1.80E+06	2.66E+06	-2.10E+07	2.36E+07

Table Q-415. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-416. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.90E+04	-3.34E+05	2.44E+05	-3.28E+05	2.41E+05	-1.73E+07	1.68E+07
1/20	-1.19E+05	-9.85E+05	7.32E+05	-9.76E+05	7.25E+05	-1.71E+07	1.69E+07
1/15	-1.96E+05	-1.22E+06	8.77E+05	-1.20E+06	8.68E+05	-1.50E+07	1.60E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

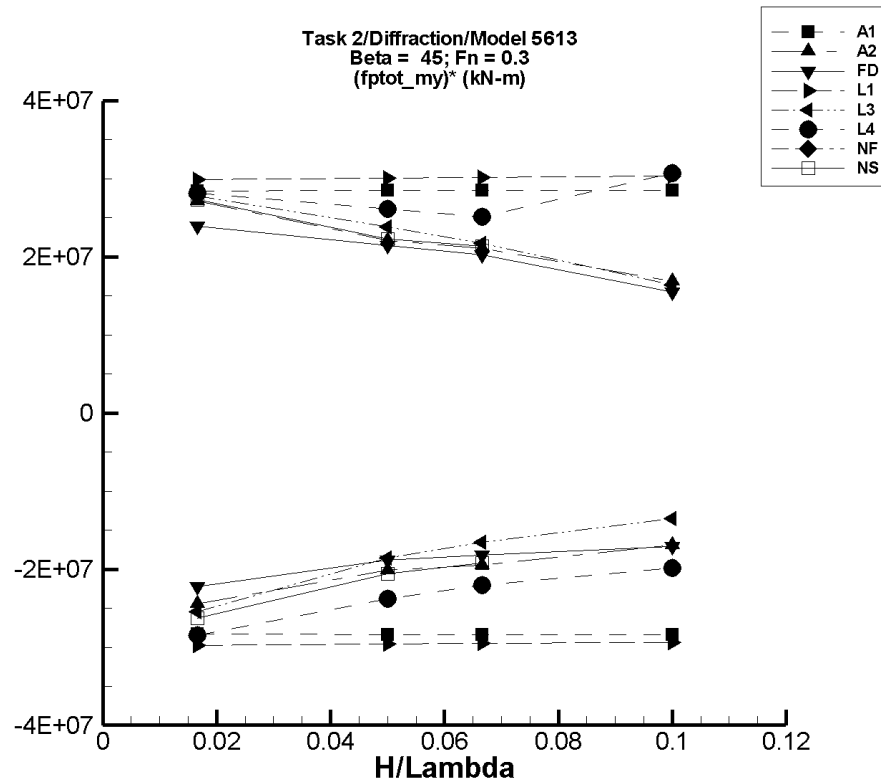


Figure Q-53. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-417. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.27E+03	-4.81E+05	4.77E+05	-4.70E+05	4.75E+05	-2.83E+07	2.84E+07
1/20	3.82E+03	-1.45E+06	1.43E+06	-1.41E+06	1.43E+06	-2.84E+07	2.85E+07
1/15	5.10E+03	-1.93E+06	1.91E+06	-1.89E+06	1.91E+06	-2.84E+07	2.85E+07
1/10	7.66E+03	-2.90E+06	2.87E+06	-2.83E+06	2.86E+06	-2.84E+07	2.85E+07

Table Q-418. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.50E+04	-3.74E+05	4.88E+05	-3.73E+05	4.87E+05	-2.45E+07	2.71E+07
1/20	1.76E+05	-8.66E+05	1.28E+06	-8.28E+05	1.28E+06	-2.01E+07	2.21E+07
1/15	2.76E+05	-1.04E+06	1.72E+06	-1.02E+06	1.68E+06	-1.95E+07	2.11E+07
1/10	3.83E+05	-1.32E+06	2.10E+06	-1.31E+06	2.07E+06	-1.69E+07	1.69E+07

Table Q-419. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.13E+04	-3.50E+05	4.21E+05	-3.49E+05	4.20E+05	-2.22E+07	2.39E+07
1/20	1.41E+05	-7.95E+05	1.22E+06	-8.01E+05	1.22E+06	-1.88E+07	2.15E+07
1/15	2.35E+05	-9.79E+05	1.59E+06	-9.77E+05	1.58E+06	-1.82E+07	2.02E+07
1/10	3.99E+05	-1.32E+06	1.95E+06	-1.31E+06	1.95E+06	-1.71E+07	1.55E+07

Table Q-420. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.25E+04	-5.08E+05	4.86E+05	-5.08E+05	4.86E+05	-2.97E+07	2.99E+07
1/20	-2.70E+04	-1.51E+06	1.48E+06	-1.51E+06	1.48E+06	-2.96E+07	3.01E+07
1/15	-3.98E+04	-2.01E+06	1.97E+06	-2.01E+06	1.97E+06	-2.95E+07	3.02E+07
1/10	-7.63E+04	-3.02E+06	2.96E+06	-3.02E+06	2.96E+06	-2.94E+07	3.04E+07

Table Q-421. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.33E+03	-4.25E+05	4.62E+05	-4.25E+05	4.62E+05	-2.54E+07	2.78E+07
1/20	8.44E+04	-8.43E+05	1.28E+06	-8.42E+05	1.28E+06	-1.85E+07	2.38E+07
1/15	1.44E+05	-9.58E+05	1.59E+06	-9.58E+05	1.59E+06	-1.65E+07	2.17E+07
1/10	2.20E+05	-1.13E+06	1.86E+06	-1.13E+06	1.86E+06	-1.35E+07	1.64E+07

Table Q-422. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.00E+04	-5.11E+05	4.40E+05	-5.04E+05	4.40E+05	-2.84E+07	2.82E+07
1/20	1.33E+04	-1.25E+06	1.32E+06	-1.18E+06	1.32E+06	-2.38E+07	2.61E+07
1/15	7.80E+04	-1.51E+06	1.76E+06	-1.39E+06	1.75E+06	-2.21E+07	2.51E+07
1/10	3.17E+05	-1.89E+06	5.89E+06	-1.67E+06	3.39E+06	-1.99E+07	3.07E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-423. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-424. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.59E+04	-4.26E+05	4.77E+05	-4.22E+05	4.71E+05	-2.63E+07	2.73E+07
1/20	-6.89E+04	-1.13E+06	1.07E+06	-1.10E+06	1.04E+06	-2.06E+07	2.22E+07
1/15	-6.29E+04	-1.40E+06	1.42E+06	-1.35E+06	1.36E+06	-1.93E+07	2.14E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

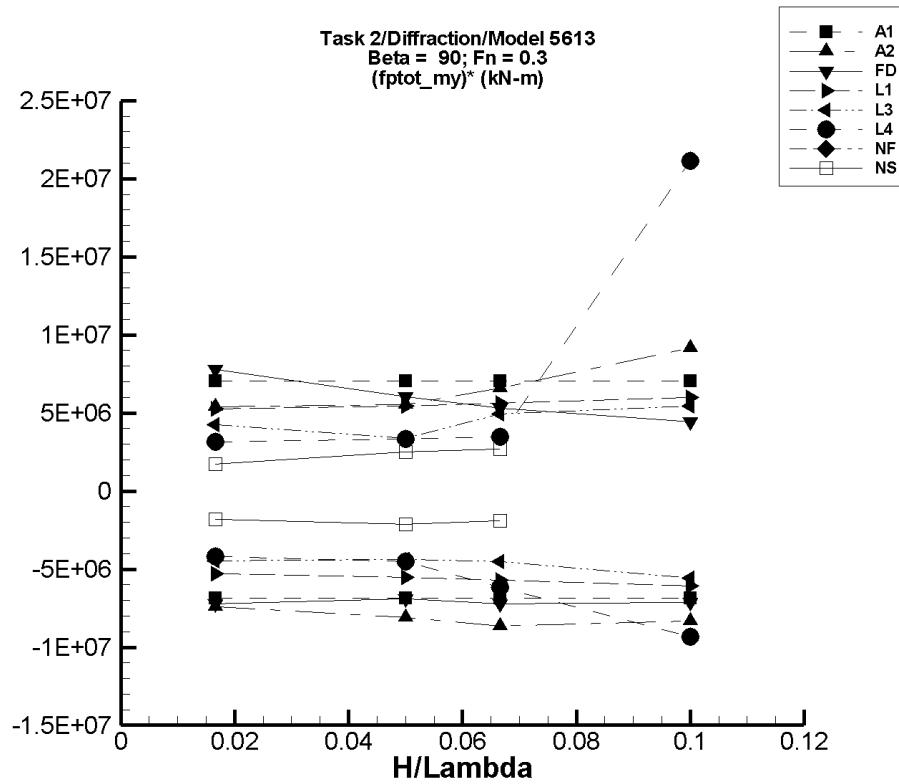


Figure Q-54. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-425. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	561.	-1.14E+05	1.19E+05	-1.13E+05	1.18E+05	-6.84E+06	7.04E+06
1/20	1.69E+03	-3.44E+05	3.59E+05	-3.41E+05	3.55E+05	-6.85E+06	7.06E+06
1/15	2.25E+03	-4.60E+05	4.79E+05	-4.55E+05	4.74E+05	-6.86E+06	7.07E+06
1/10	3.38E+03	-6.90E+05	7.19E+05	-6.83E+05	7.10E+05	-6.86E+06	7.07E+06

Table Q-426. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.48E+04	-9.30E+04	1.29E+05	-8.88E+04	1.25E+05	-7.41E+06	5.42E+06
1/20	1.76E+05	-2.38E+05	5.07E+05	-2.27E+05	4.54E+05	-8.07E+06	5.55E+06
1/15	2.77E+05	-3.19E+05	7.28E+05	-2.99E+05	7.17E+05	-8.63E+06	6.61E+06
1/10	3.82E+05	-5.04E+05	1.32E+06	-4.50E+05	1.30E+06	-8.32E+06	9.17E+06

Table Q-427. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.17E+04	-1.00E+05	1.53E+05	-9.87E+04	1.51E+05	-7.22E+06	7.78E+06
1/20	1.44E+05	-2.13E+05	4.50E+05	-2.02E+05	4.46E+05	-6.92E+06	6.04E+06
1/15	2.39E+05	-2.58E+05	5.98E+05	-2.41E+05	5.92E+05	-7.21E+06	5.30E+06
1/10	4.03E+05	-3.38E+05	8.64E+05	-3.10E+05	8.44E+05	-7.13E+06	4.41E+06

Table Q-428. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.48E+04	-1.03E+05	7.35E+04	-1.03E+05	7.31E+04	-5.29E+06	5.28E+06
1/20	-4.76E+04	-3.25E+05	2.27E+05	-3.24E+05	2.26E+05	-5.52E+06	5.46E+06
1/15	-7.62E+04	-4.57E+05	3.00E+05	-4.55E+05	2.98E+05	-5.69E+06	5.62E+06
1/10	-1.58E+05	-7.69E+05	4.45E+05	-7.66E+05	4.41E+05	-6.08E+06	5.99E+06

Table Q-429. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.71E+03	-7.87E+04	6.72E+04	-7.81E+04	6.68E+04	-4.46E+06	4.23E+06
1/20	6.32E+04	-1.57E+05	2.34E+05	-1.55E+05	2.32E+05	-4.37E+06	3.37E+06
1/15	1.07E+05	-1.96E+05	4.40E+05	-1.94E+05	4.37E+05	-4.52E+06	4.95E+06
1/10	1.36E+05	-4.29E+05	6.84E+05	-4.23E+05	6.81E+05	-5.59E+06	5.45E+06

Table Q-430. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.76E+04	-1.12E+05	1.62E+04	-1.08E+05	1.51E+04	-4.21E+06	3.16E+06
1/20	-3.83E+04	-3.01E+05	1.35E+05	-2.63E+05	1.29E+05	-4.50E+06	3.35E+06
1/15	-6.85E+03	-4.89E+05	2.33E+05	-4.18E+05	2.25E+05	-6.17E+06	3.48E+06
1/10	1.69E+05	-2.74E+06	6.03E+06	-7.66E+05	2.28E+06	-9.35E+06	2.11E+07



Table Q-431. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-432. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.26E+04	-1.06E+05	-3.85E+04	-1.02E+05	-4.39E+04	-1.79E+06	1.72E+06
1/20	-1.21E+05	-2.96E+05	6.21E+04	-2.28E+05	4.16E+03	-2.13E+06	2.51E+06
1/15	-1.81E+05	-5.03E+05	3.98E+05	-3.08E+05	-2.70E+03	-1.90E+06	2.68E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

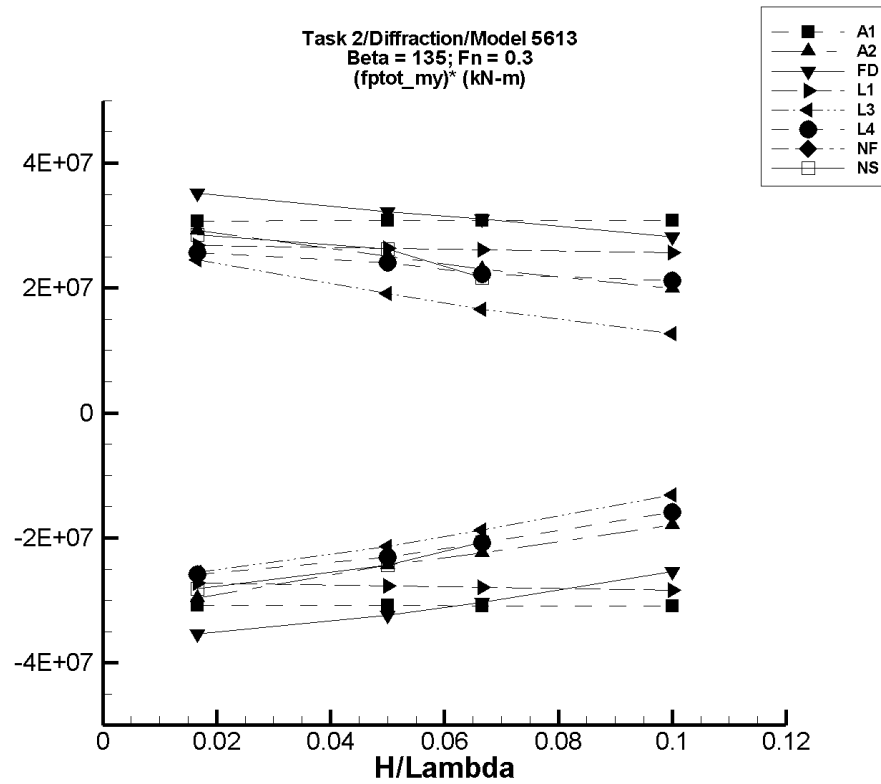


Figure Q-55. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-433. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	92.8	-5.25E+05	5.25E+05	-5.12E+05	5.12E+05	-3.08E+07	3.07E+07
1/20	279.	-1.58E+06	1.58E+06	-1.54E+06	1.54E+06	-3.08E+07	3.08E+07
1/15	373.	-2.11E+06	2.11E+06	-2.06E+06	2.06E+06	-3.09E+07	3.08E+07
1/10	559.	-3.16E+06	3.16E+06	-3.09E+06	3.08E+06	-3.09E+07	3.08E+07

Table Q-434. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.41E+04	-4.73E+05	5.34E+05	-4.59E+05	5.21E+05	-2.96E+07	2.92E+07
1/20	1.71E+05	-1.10E+06	1.46E+06	-1.04E+06	1.42E+06	-2.43E+07	2.51E+07
1/15	2.69E+05	-1.32E+06	1.85E+06	-1.22E+06	1.81E+06	-2.24E+07	2.30E+07
1/10	3.69E+05	-1.46E+06	2.51E+06	-1.43E+06	2.36E+06	-1.80E+07	1.99E+07

Table Q-435. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.15E+04	-5.84E+05	6.23E+05	-5.68E+05	6.08E+05	-3.54E+07	3.52E+07
1/20	1.41E+05	-1.53E+06	1.80E+06	-1.48E+06	1.75E+06	-3.24E+07	3.22E+07
1/15	2.34E+05	-1.84E+06	2.36E+06	-1.79E+06	2.30E+06	-3.04E+07	3.10E+07
1/10	3.99E+05	-2.20E+06	3.31E+06	-2.14E+06	3.21E+06	-2.54E+07	2.82E+07

Table Q-436. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.39E+04	-4.72E+05	4.37E+05	-4.68E+05	4.33E+05	-2.73E+07	2.68E+07
1/20	-3.95E+04	-1.44E+06	1.29E+06	-1.43E+06	1.28E+06	-2.77E+07	2.64E+07
1/15	-6.19E+04	-1.94E+06	1.70E+06	-1.93E+06	1.68E+06	-2.79E+07	2.62E+07
1/10	-1.26E+05	-2.99E+06	2.46E+06	-2.97E+06	2.44E+06	-2.84E+07	2.57E+07

Table Q-437. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.51E+03	-4.32E+05	4.10E+05	-4.28E+05	4.06E+05	-2.55E+07	2.45E+07
1/20	7.24E+04	-1.01E+06	1.03E+06	-9.95E+05	1.03E+06	-2.13E+07	1.91E+07
1/15	1.23E+05	-1.15E+06	1.24E+06	-1.12E+06	1.23E+06	-1.87E+07	1.66E+07
1/10	1.72E+05	-1.17E+06	1.45E+06	-1.15E+06	1.44E+06	-1.32E+07	1.27E+07

Table Q-438. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.70E+04	-4.87E+05	3.84E+05	-4.78E+05	3.80E+05	-2.58E+07	2.56E+07
1/20	-9.46E+04	-1.25E+06	1.12E+06	-1.25E+06	1.11E+06	-2.31E+07	2.40E+07
1/15	-8.64E+04	-1.48E+06	1.41E+06	-1.47E+06	1.39E+06	-2.08E+07	2.22E+07
1/10	9.46E+03	-1.59E+06	3.39E+06	-1.58E+06	2.13E+06	-1.58E+07	2.12E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-439. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-440. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.73E+04	-5.46E+05	4.18E+05	-5.37E+05	4.08E+05	-2.82E+07	2.85E+07
1/20	-9.80E+04	-1.33E+06	1.28E+06	-1.32E+06	1.21E+06	-2.44E+07	2.62E+07
1/15	-1.25E+05	-1.54E+06	1.35E+06	-1.50E+06	1.32E+06	-2.07E+07	2.16E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

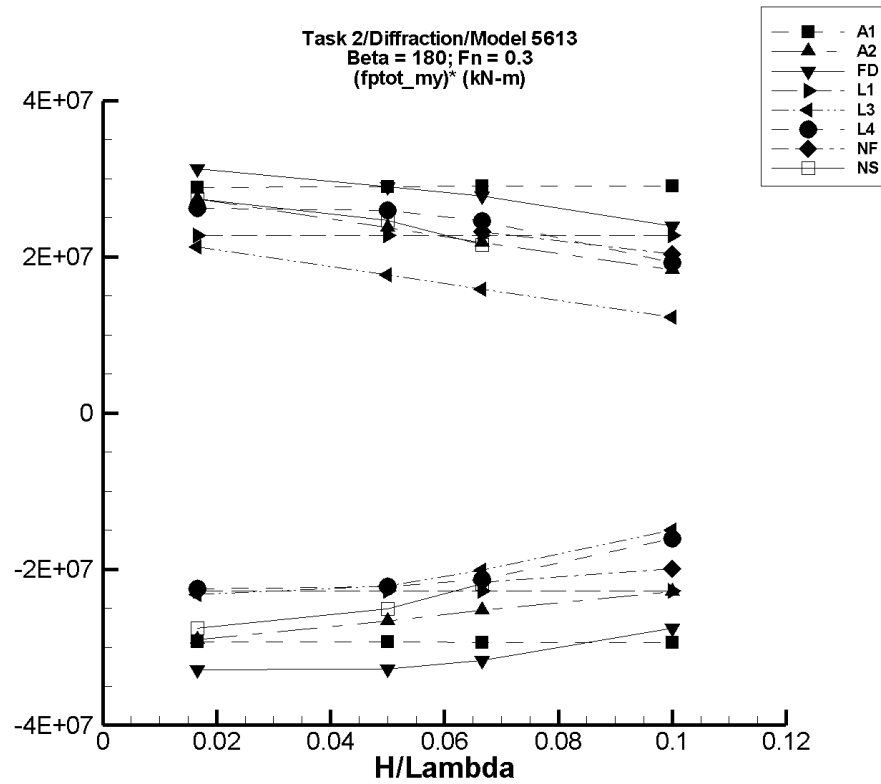


Figure Q-56. Minimum and maximum of filtered  $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-441. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.40E+03	-5.01E+05	4.96E+05	-4.89E+05	4.80E+05	-2.93E+07	2.89E+07
1/20	-4.21E+03	-1.51E+06	1.49E+06	-1.47E+06	1.45E+06	-2.93E+07	2.90E+07
1/15	-5.62E+03	-2.01E+06	1.99E+06	-1.96E+06	1.93E+06	-2.94E+07	2.90E+07
1/10	-8.43E+03	-3.02E+06	2.99E+06	-2.95E+06	2.89E+06	-2.94E+07	2.90E+07

Table Q-442. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.25E+04	-4.65E+05	5.09E+05	-4.51E+05	4.90E+05	-2.90E+07	2.74E+07
1/20	1.66E+05	-1.25E+06	1.40E+06	-1.17E+06	1.35E+06	-2.66E+07	2.38E+07
1/15	2.63E+05	-1.52E+06	1.77E+06	-1.42E+06	1.72E+06	-2.53E+07	2.18E+07
1/10	4.47E+05	-1.99E+06	2.35E+06	-1.84E+06	2.28E+06	-2.28E+07	1.84E+07



Table Q-443. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.16E+04	-5.49E+05	5.59E+05	-5.26E+05	5.43E+05	-3.29E+07	3.13E+07
1/20	1.44E+05	-1.61E+06	1.64E+06	-1.50E+06	1.59E+06	-3.28E+07	2.90E+07
1/15	2.39E+05	-1.99E+06	2.15E+06	-1.87E+06	2.09E+06	-3.17E+07	2.77E+07
1/10	4.04E+05	-2.49E+06	2.86E+06	-2.35E+06	2.80E+06	-2.75E+07	2.39E+07

Table Q-444. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.15E+04	-3.95E+05	3.71E+05	-3.91E+05	3.67E+05	-2.28E+07	2.27E+07
1/20	-2.25E+04	-1.17E+06	1.13E+06	-1.16E+06	1.11E+06	-2.28E+07	2.27E+07
1/15	-3.26E+04	-1.57E+06	1.50E+06	-1.55E+06	1.48E+06	-2.28E+07	2.27E+07
1/10	-6.22E+04	-2.36E+06	2.24E+06	-2.34E+06	2.21E+06	-2.28E+07	2.27E+07

Table Q-445. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-550.	-3.92E+05	3.59E+05	-3.87E+05	3.55E+05	-2.32E+07	2.13E+07
1/20	9.11E+04	-1.05E+06	9.84E+05	-1.02E+06	9.77E+05	-2.22E+07	1.77E+07
1/15	1.54E+05	-1.22E+06	1.22E+06	-1.19E+06	1.21E+06	-2.02E+07	1.58E+07
1/10	2.34E+05	-1.29E+06	1.47E+06	-1.27E+06	1.46E+06	-1.50E+07	1.22E+07

Table Q-446. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.02E+04	-4.35E+05	4.04E+05	-4.26E+05	3.86E+05	-2.25E+07	2.62E+07
1/20	-1.02E+05	-1.29E+06	1.36E+06	-1.21E+06	1.19E+06	-2.22E+07	2.59E+07
1/15	-9.04E+04	-1.56E+06	1.80E+06	-1.51E+06	1.55E+06	-2.13E+07	2.46E+07
1/10	-6.15E+04	-1.95E+06	2.12E+06	-1.67E+06	1.87E+06	-1.61E+07	1.93E+07

Table Q-447. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	-2.60E+04	-1.24E+06	1.23E+06	-1.18E+06	1.21E+06	-2.30E+07	2.47E+07
1/15	2.57E+04	-1.49E+06	1.62E+06	-1.42E+06	1.57E+06	-2.17E+07	2.32E+07
1/10	1.26E+05	-1.90E+06	2.21E+06	-1.87E+06	2.16E+06	-2.00E+07	2.04E+07

Table Q-448. Minimum and Maximum of Variables  $M_y^{\text{ptot}}$  and  $(M_y^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered $M_y^{\text{ptot}}$		Filtered $M_y^{\text{ptot}}$		Filtered $(M_y^{\text{ptot}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.14E+04	-5.38E+05	3.96E+05	-5.31E+05	3.86E+05	-2.76E+07	2.74E+07
1/20	-9.05E+04	-1.38E+06	1.16E+06	-1.34E+06	1.14E+06	-2.51E+07	2.47E+07
1/15	-1.30E+05	-1.62E+06	1.33E+06	-1.59E+06	1.31E+06	-2.19E+07	2.16E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

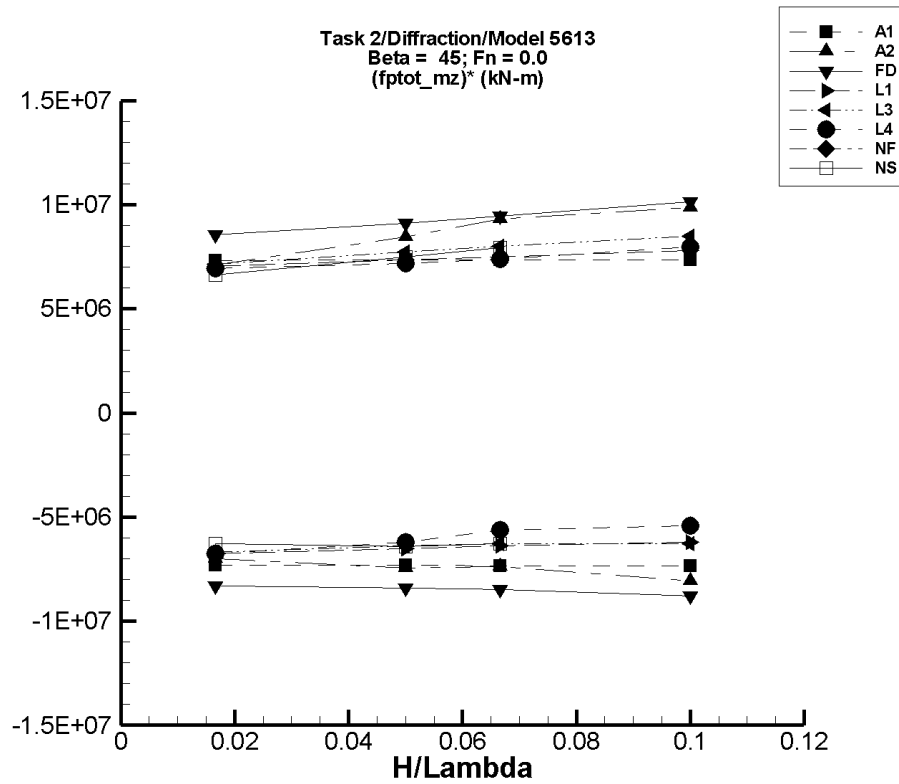


Figure Q-57. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-449. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-155.	-1.23E+05	1.23E+05	-1.22E+05	1.22E+05	-7.30E+06	7.33E+06
1/20	-466.	-3.70E+05	3.71E+05	-3.66E+05	3.67E+05	-7.32E+06	7.35E+06
1/15	-622.	-4.94E+05	4.95E+05	-4.89E+05	4.90E+05	-7.33E+06	7.36E+06
1/10	-933.	-7.42E+05	7.43E+05	-7.34E+05	7.35E+05	-7.33E+06	7.36E+06

Table Q-450. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	401.	-1.18E+05	1.20E+05	-1.16E+05	1.19E+05	-7.01E+06	7.11E+06
1/20	-253.	-3.84E+05	7.52E+05	-3.72E+05	4.22E+05	-7.44E+06	8.45E+06
1/15	743.	-4.94E+05	7.10E+05	-4.91E+05	6.21E+05	-7.37E+06	9.31E+06
1/10	2.13E+04	-7.99E+05	1.45E+06	-7.85E+05	1.01E+06	-8.06E+06	9.86E+06

Table Q-451. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	77.2	-1.39E+05	1.44E+05	-1.38E+05	1.42E+05	-8.29E+06	8.54E+06
1/20	580.	-4.24E+05	4.62E+05	-4.19E+05	4.57E+05	-8.40E+06	9.12E+06
1/15	1.18E+03	-5.70E+05	6.39E+05	-5.64E+05	6.31E+05	-8.48E+06	9.45E+06
1/10	2.96E+03	-8.87E+05	1.03E+06	-8.76E+05	1.02E+06	-8.79E+06	1.01E+07

Table Q-452. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.91E+03	-1.16E+05	1.15E+05	-1.16E+05	1.15E+05	-6.77E+06	7.05E+06
1/20	-2.66E+04	-3.53E+05	3.42E+05	-3.52E+05	3.41E+05	-6.51E+06	7.34E+06
1/15	-4.73E+04	-4.75E+05	4.55E+05	-4.74E+05	4.52E+05	-6.39E+06	7.49E+06
1/10	-1.07E+05	-7.28E+05	6.77E+05	-7.26E+05	6.73E+05	-6.19E+06	7.80E+06

Table Q-453. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-2.89E+03	-1.15E+05	1.17E+05	-1.15E+05	1.16E+05	-6.71E+06	7.14E+06
1/20	-2.63E+04	-3.47E+05	3.62E+05	-3.46E+05	3.60E+05	-6.39E+06	7.72E+06
1/15	-4.69E+04	-4.68E+05	4.89E+05	-4.66E+05	4.86E+05	-6.29E+06	8.00E+06
1/10	-1.06E+05	-7.38E+05	7.46E+05	-7.35E+05	7.42E+05	-6.28E+06	8.48E+06

Table Q-454. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-1.45E+03	-1.16E+05	1.16E+05	-1.14E+05	1.14E+05	-6.74E+06	6.94E+06
1/20	-1.22E+04	-3.43E+05	3.70E+05	-3.22E+05	3.47E+05	-6.19E+06	7.18E+06
1/15	-1.54E+04	-4.20E+05	5.11E+05	-3.89E+05	4.78E+05	-5.61E+06	7.40E+06
1/10	-5.50E+04	-6.65E+05	8.10E+05	-5.96E+05	7.44E+05	-5.41E+06	7.99E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-455. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-456. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-764.	-1.07E+05	1.11E+05	-1.06E+05	1.10E+05	-6.29E+06	6.64E+06
1/20	-4.44E+03	-3.31E+05	3.79E+05	-3.25E+05	3.70E+05	-6.41E+06	7.49E+06
1/15	-3.85E+03	-4.65E+05	5.32E+05	-4.23E+05	5.25E+05	-6.28E+06	7.93E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

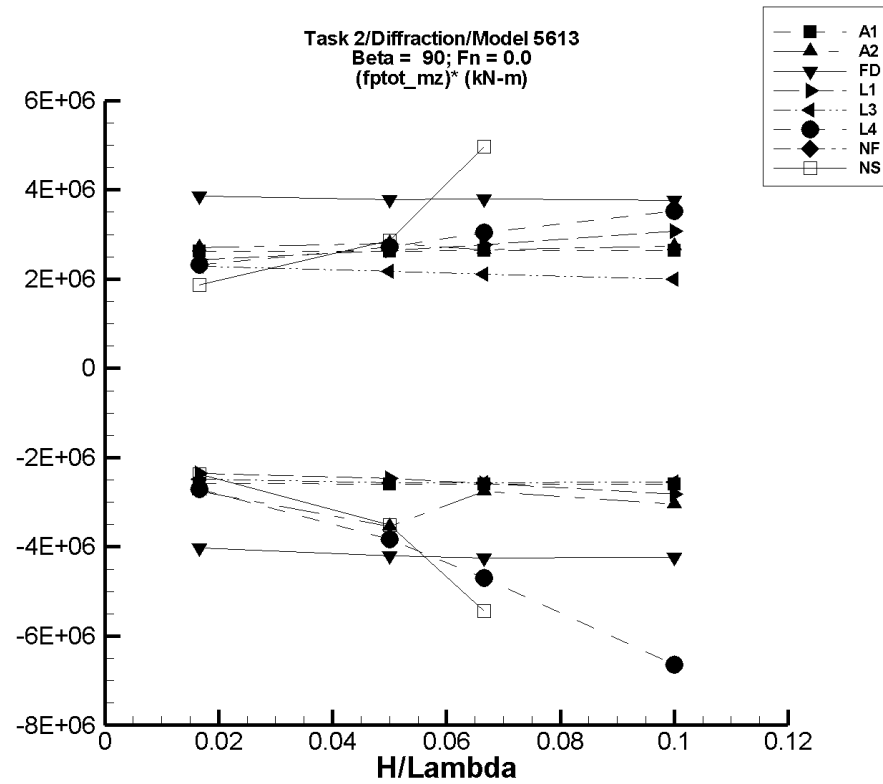


Figure Q-58. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-457. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-43.3	-4.38E+04	4.38E+04	-4.31E+04	4.37E+04	-2.58E+06	2.62E+06
1/20	-130.	-1.32E+05	1.32E+05	-1.30E+05	1.31E+05	-2.59E+06	2.63E+06
1/15	-174.	-1.76E+05	1.76E+05	-1.73E+05	1.75E+05	-2.59E+06	2.64E+06
1/10	-261.	-2.64E+05	2.64E+05	-2.60E+05	2.63E+05	-2.59E+06	2.64E+06

Table Q-458. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-70.8	-4.77E+04	4.66E+04	-4.61E+04	4.49E+04	-2.76E+06	2.70E+06
1/20	-4.65E+03	-5.68E+05	1.50E+05	-1.82E+05	1.35E+05	-3.54E+06	2.80E+06
1/15	71.0	-1.91E+05	2.47E+05	-1.84E+05	1.77E+05	-2.76E+06	2.65E+06
1/10	-2.54E+03	-5.94E+05	2.82E+05	-3.06E+05	2.71E+05	-3.04E+06	2.74E+06

Table Q-459. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.33	-6.79E+04	6.42E+04	-6.70E+04	6.43E+04	-4.02E+06	3.86E+06
1/20	260.	-2.13E+05	1.92E+05	-2.10E+05	1.89E+05	-4.20E+06	3.78E+06
1/15	648.	-2.88E+05	2.58E+05	-2.82E+05	2.53E+05	-4.25E+06	3.79E+06
1/10	1.77E+03	-4.35E+05	3.89E+05	-4.22E+05	3.79E+05	-4.24E+06	3.77E+06

Table Q-460. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.45E+03	-4.09E+04	3.92E+04	-4.08E+04	3.91E+04	-2.36E+06	2.43E+06
1/20	-1.29E+04	-1.37E+05	1.20E+05	-1.37E+05	1.19E+05	-2.47E+06	2.64E+06
1/15	-2.30E+04	-1.96E+05	1.63E+05	-1.95E+05	1.62E+05	-2.58E+06	2.78E+06
1/10	-5.17E+04	-3.36E+05	2.57E+05	-3.34E+05	2.55E+05	-2.83E+06	3.07E+06

Table Q-461. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-1.45E+03	-4.30E+04	3.66E+04	-4.28E+04	3.67E+04	-2.48E+06	2.29E+06
1/20	-1.30E+04	-1.42E+05	9.54E+04	-1.41E+05	9.55E+04	-2.57E+06	2.17E+06
1/15	-2.31E+04	-1.96E+05	1.18E+05	-1.95E+05	1.18E+05	-2.57E+06	2.11E+06
1/10	-5.20E+04	-3.10E+05	1.48E+05	-3.07E+05	1.48E+05	-2.55E+06	2.00E+06

Table Q-462. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-2.70E+03	-5.49E+04	3.77E+04	-4.78E+04	3.61E+04	-2.71E+06	2.33E+06
1/20	-1.01E+04	-2.34E+05	1.62E+05	-2.02E+05	1.26E+05	-3.83E+06	2.73E+06
1/15	-9.22E+03	-3.51E+05	2.35E+05	-3.23E+05	1.93E+05	-4.71E+06	3.03E+06
1/10	-8.97E+03	-7.04E+05	5.13E+05	-6.74E+05	3.44E+05	-6.65E+06	3.53E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-463. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-464. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.06E+03	-4.30E+04	3.19E+04	-4.06E+04	3.00E+04	-2.37E+06	1.86E+06
1/20	-5.66E+03	-1.99E+05	1.90E+05	-1.81E+05	1.38E+05	-3.51E+06	2.87E+06
1/15	-1.54E+03	-3.77E+05	3.58E+05	-3.64E+05	3.30E+05	-5.44E+06	4.97E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

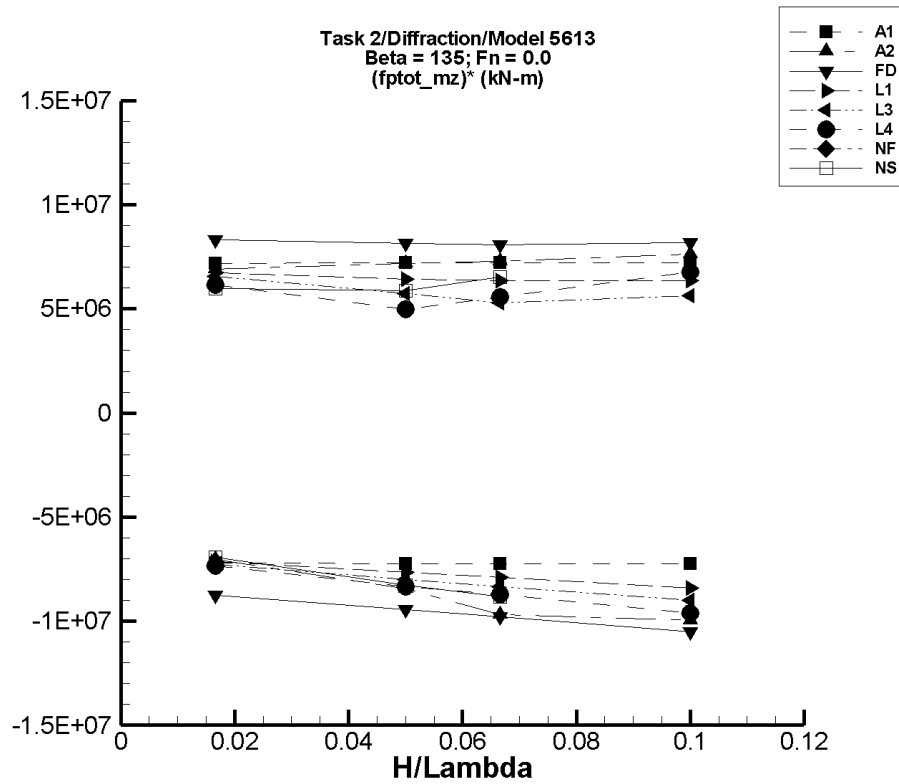


Figure Q-59. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-465. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	184.	-1.21E+05	1.21E+05	-1.20E+05	1.20E+05	-7.22E+06	7.19E+06
1/20	552.	-3.65E+05	3.65E+05	-3.61E+05	3.61E+05	-7.24E+06	7.20E+06
1/15	738.	-4.88E+05	4.87E+05	-4.82E+05	4.82E+05	-7.25E+06	7.21E+06
1/10	1.11E+03	-7.32E+05	7.30E+05	-7.24E+05	7.22E+05	-7.25E+06	7.21E+06

Table Q-466. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-204.	-1.20E+05	1.17E+05	-1.18E+05	1.15E+05	-7.04E+06	6.89E+06
1/20	1.22E+03	-4.30E+05	3.71E+05	-4.21E+05	3.61E+05	-8.45E+06	7.19E+06
1/15	-8.85E+03	-1.01E+06	4.80E+05	-6.55E+05	4.76E+05	-9.70E+06	7.28E+06
1/10	-4.33E+03	-1.02E+06	7.74E+05	-1.00E+06	7.58E+05	-9.97E+06	7.62E+06

Table Q-467. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	-47.5	-1.48E+05	1.40E+05	-1.46E+05	1.38E+05	-8.76E+06	8.31E+06
1/20	-206.	-4.77E+05	4.10E+05	-4.72E+05	4.07E+05	-9.43E+06	8.14E+06
1/15	-518.	-6.62E+05	5.43E+05	-6.54E+05	5.38E+05	-9.80E+06	8.09E+06
1/10	-1.55E+03	-1.07E+06	8.23E+05	-1.05E+06	8.15E+05	-1.05E+07	8.17E+06

Table Q-468. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	1.67E+03	-1.18E+05	1.14E+05	-1.18E+05	1.14E+05	-7.15E+06	6.73E+06
1/20	1.51E+04	-3.69E+05	3.37E+05	-3.67E+05	3.36E+05	-7.64E+06	6.42E+06
1/15	2.68E+04	-5.02E+05	4.51E+05	-4.99E+05	4.50E+05	-7.89E+06	6.34E+06
1/10	6.04E+04	-7.87E+05	6.97E+05	-7.82E+05	6.95E+05	-8.42E+06	6.34E+06



Table Q-469. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.65E+03	-1.20E+05	1.11E+05	-1.20E+05	1.11E+05	-7.28E+06	6.56E+06
1/20	1.49E+04	-3.87E+05	3.02E+05	-3.85E+05	3.01E+05	-8.01E+06	5.72E+06
1/15	2.65E+04	-5.34E+05	3.79E+05	-5.31E+05	3.79E+05	-8.36E+06	5.29E+06
1/10	6.00E+04	-8.46E+05	6.28E+05	-8.40E+05	6.24E+05	-9.00E+06	5.64E+06

Table Q-470. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	954.	-1.27E+05	1.07E+05	-1.22E+05	1.03E+05	-7.35E+06	6.13E+06
1/20	6.10E+03	-4.48E+05	2.74E+05	-4.10E+05	2.56E+05	-8.33E+06	5.00E+06
1/15	1.16E+04	-6.24E+05	6.23E+05	-5.69E+05	3.83E+05	-8.71E+06	5.57E+06
1/10	5.39E+04	-9.52E+05	7.59E+05	-9.06E+05	7.31E+05	-9.60E+06	6.77E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-471. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-472. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-611.	-1.18E+05	9.98E+04	-1.16E+05	9.88E+04	-6.92E+06	5.97E+06
1/20	-3.08E+03	-4.20E+05	3.14E+05	-4.16E+05	2.91E+05	-8.27E+06	5.89E+06
1/15	-626.	-5.95E+05	4.65E+05	-5.88E+05	4.34E+05	-8.81E+06	6.53E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

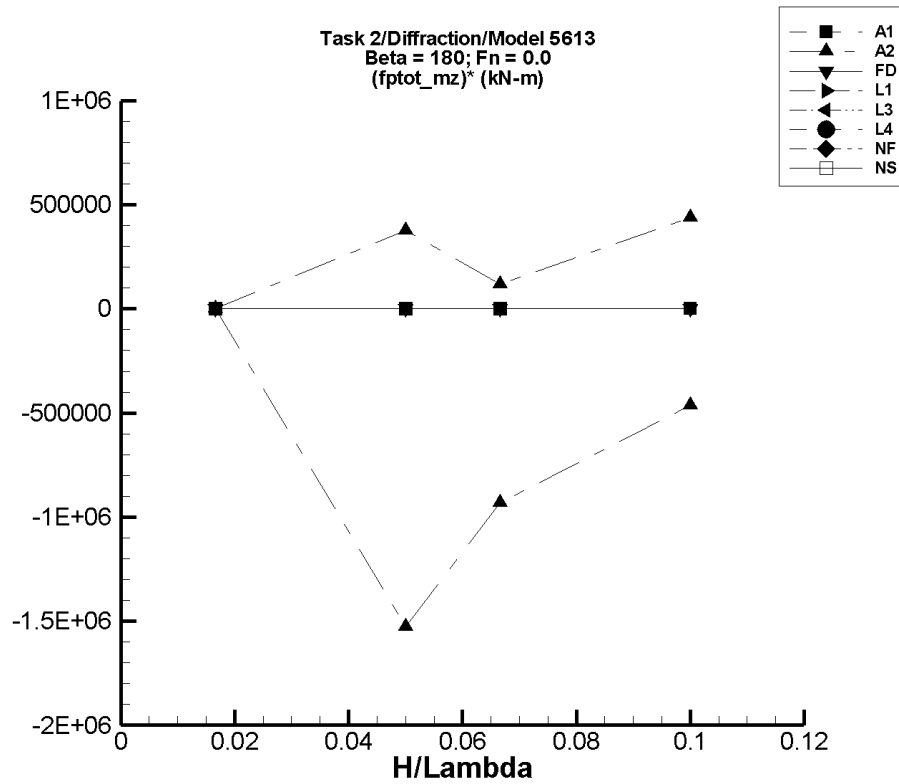


Figure Q-60. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-473. Minimum and Maximum of Variables  $M_z^{ptot}$  and  $(M_z^{ptot})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{ptot} \rangle$ Mean (kN-m)	Unfiltered $M_z^{ptot}$		Filtered $M_z^{ptot}$		Filtered $(M_z^{ptot})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.07E-03	-1.26	1.31	-1.25	1.30	-75.3	77.7
1/20	3.22E-03	-3.80	3.94	-3.77	3.90	-75.5	77.9
1/15	4.30E-03	-5.08	5.25	-5.03	5.21	-75.6	78.0
1/10	6.45E-03	-7.62	7.88	-7.55	7.81	-75.6	78.0

Table Q-474. Minimum and Maximum of Variables  $M_z^{ptot}$  and  $(M_z^{ptot})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{ptot} \rangle$ Mean (kN-m)	Unfiltered $M_z^{ptot}$		Filtered $M_z^{ptot}$		Filtered $(M_z^{ptot})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.93E-04	-1.20	1.24	-1.19	1.23	-71.3	73.7
1/20	-2.39E+03	-5.89E+05	1.23E+05	-7.88E+04	1.65E+04	-1.53E+06	3.77E+05
1/15	-2.46E+03	-4.85E+05	4.97	-6.46E+04	5.53E+03	-9.32E+05	1.20E+05
1/10	727.	-3.34E+05	3.30E+05	-4.55E+04	4.47E+04	-4.62E+05	4.40E+05

Table Q-475. Minimum and Maximum of Variables  $M_z^{ptot}$  and  $(M_z^{ptot})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{ptot} \rangle$ Mean (kN-m)	Unfiltered $M_z^{ptot}$		Filtered $M_z^{ptot}$		Filtered $(M_z^{ptot})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.63E-05	-1.47E-02	2.52E-02	-9.35E-03	1.07E-02	-0.555	0.648
1/20	-1.35E-04	-4.23E-02	7.31E-02	-2.55E-02	3.24E-02	-0.508	0.651
1/15	-3.25E-04	-5.30E-02	9.85E-02	-3.23E-02	4.26E-02	-0.479	0.644
1/10	-1.27E-04	-7.24E-02	0.142	-5.00E-02	6.34E-02	-0.499	0.635

TASK 2/DIFFRACTION/MODEL 5613

Table Q-476. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-477. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-478. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q–479. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–480. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.26E-03	-0.110	0.107	-3.94E-02	4.07E-02	-2.62	2.19
1/20	-9.69E-03	-0.362	0.551	-0.223	0.119	-4.26	2.57
1/15	-2.98E-03	-3.01	2.90	-0.256	0.200	-3.80	3.05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

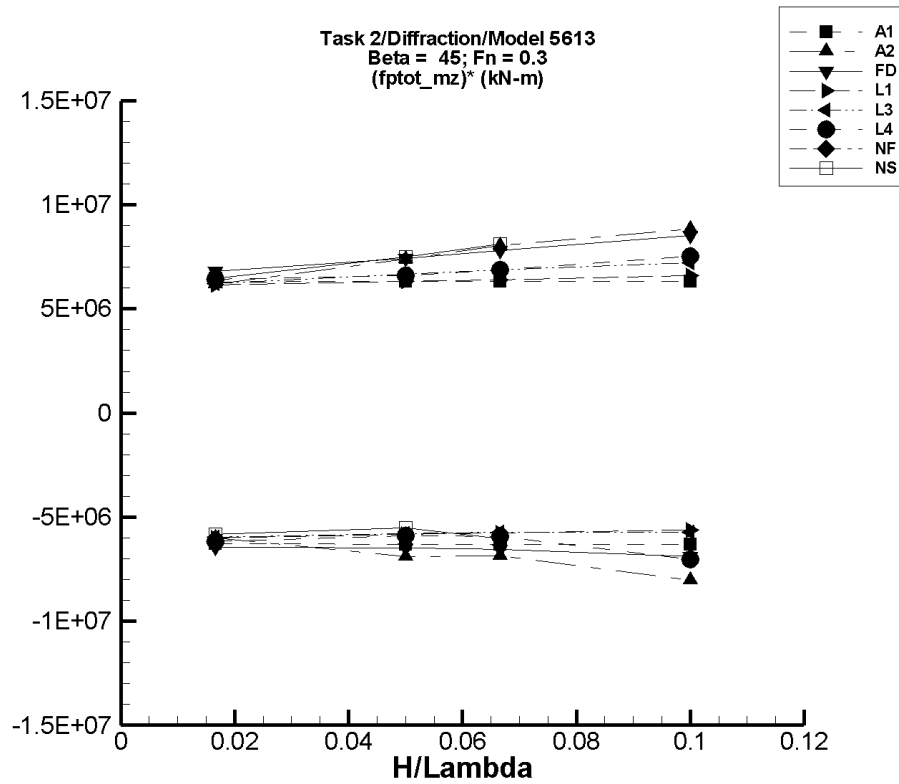


Figure Q-61. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-481. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	21.7	-1.05E+05	1.05E+05	-1.05E+05	1.05E+05	-6.29E+06	6.30E+06
1/20	65.3	-3.16E+05	3.17E+05	-3.15E+05	3.16E+05	-6.30E+06	6.32E+06
1/15	87.2	-4.22E+05	4.23E+05	-4.21E+05	4.22E+05	-6.31E+06	6.32E+06
1/10	131.	-6.33E+05	6.34E+05	-6.31E+05	6.33E+05	-6.31E+06	6.32E+06

Table Q-482. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	404.	-1.03E+05	1.04E+05	-9.97E+04	1.03E+05	-6.01E+06	6.18E+06
1/20	2.42E+03	-3.46E+05	6.73E+05	-3.43E+05	3.72E+05	-6.91E+06	7.39E+06
1/15	1.07E+03	-4.70E+05	5.42E+05	-4.55E+05	5.37E+05	-6.85E+06	8.03E+06
1/10	6.88E+03	-1.07E+06	1.57E+06	-7.97E+05	8.92E+05	-8.04E+06	8.85E+06



Table Q-483. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	34.8	-1.08E+05	1.14E+05	-1.07E+05	1.13E+05	-6.44E+06	6.80E+06
1/20	212.	-3.25E+05	3.73E+05	-3.25E+05	3.72E+05	-6.50E+06	7.43E+06
1/15	353.	-4.38E+05	5.22E+05	-4.37E+05	5.20E+05	-6.57E+06	7.80E+06
1/10	926.	-6.90E+05	8.56E+05	-6.88E+05	8.54E+05	-6.89E+06	8.53E+06

Table Q-484. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-22.4	-9.99E+04	1.03E+05	-9.98E+04	1.02E+05	-5.99E+06	6.15E+06
1/20	-256.	-2.92E+05	3.16E+05	-2.92E+05	3.16E+05	-5.84E+06	6.32E+06
1/15	-469.	-3.85E+05	4.27E+05	-3.85E+05	4.27E+05	-5.76E+06	6.41E+06
1/10	-1.09E+03	-5.65E+05	6.58E+05	-5.64E+05	6.57E+05	-5.63E+06	6.58E+06

Table Q–485. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-30.3	-9.94E+04	1.03E+05	-9.93E+04	1.03E+05	-5.96E+06	6.21E+06
1/20	-359.	-2.90E+05	3.32E+05	-2.90E+05	3.33E+05	-5.79E+06	6.66E+06
1/15	-604.	-3.83E+05	4.56E+05	-3.83E+05	4.58E+05	-5.73E+06	6.87E+06
1/10	-1.25E+03	-5.76E+05	7.20E+05	-5.75E+05	7.22E+05	-5.74E+06	7.23E+06

Table Q–486. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	6.48E+03	-9.91E+04	1.30E+05	-9.64E+04	1.13E+05	-6.17E+06	6.41E+06
1/20	5.58E+04	-2.42E+05	4.64E+05	-2.39E+05	3.85E+05	-5.89E+06	6.58E+06
1/15	9.33E+04	-3.13E+05	6.64E+05	-3.02E+05	5.52E+05	-5.93E+06	6.89E+06
1/10	1.70E+05	-8.31E+05	1.00E+06	-5.34E+05	9.21E+05	-7.04E+06	7.51E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-487. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-488. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.20E+03	-1.03E+05	1.02E+05	-1.02E+05	1.02E+05	-5.83E+06	6.45E+06
1/20	-5.29E+04	-3.38E+05	3.20E+05	-3.29E+05	3.21E+05	-5.52E+06	7.48E+06
1/15	-9.40E+04	-5.06E+05	4.46E+05	-4.97E+05	4.47E+05	-6.04E+06	8.12E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

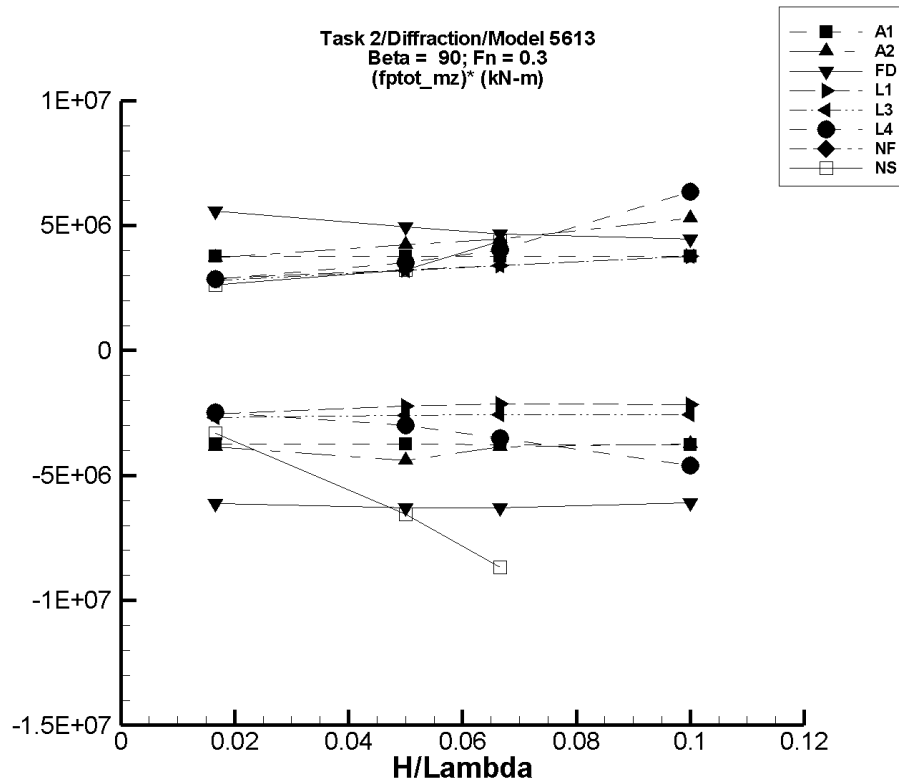


Figure Q-62. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-489. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-60.3	-6.31E+04	6.32E+04	-6.25E+04	6.26E+04	-3.75E+06	3.76E+06
1/20	-181.	-1.90E+05	1.90E+05	-1.88E+05	1.88E+05	-3.76E+06	3.77E+06
1/15	-242.	-2.54E+05	2.54E+05	-2.51E+05	2.51E+05	-3.76E+06	3.77E+06
1/10	-363.	-3.80E+05	3.81E+05	-3.77E+05	3.77E+05	-3.76E+06	3.77E+06

Table Q-490. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-87.8	-6.44E+04	6.25E+04	-6.42E+04	6.19E+04	-3.84E+06	3.72E+06
1/20	-4.70E+03	-6.13E+05	2.17E+05	-2.25E+05	2.07E+05	-4.40E+06	4.24E+06
1/15	-118.	-2.60E+05	3.10E+05	-2.57E+05	2.97E+05	-3.85E+06	4.46E+06
1/10	-2.64E+03	-5.31E+05	5.54E+05	-3.78E+05	5.26E+05	-3.76E+06	5.29E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-491. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	17.1	-1.03E+05	9.37E+04	-1.02E+05	9.29E+04	-6.12E+06	5.57E+06
1/20	315.	-3.19E+05	2.49E+05	-3.15E+05	2.48E+05	-6.31E+06	4.94E+06
1/15	721.	-4.23E+05	3.13E+05	-4.18E+05	3.12E+05	-6.28E+06	4.67E+06
1/10	1.88E+03	-6.11E+05	4.53E+05	-6.08E+05	4.49E+05	-6.09E+06	4.47E+06

Table Q-492. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.61E+03	-4.06E+04	4.97E+04	-4.05E+04	4.95E+04	-2.52E+06	2.87E+06
1/20	1.46E+04	-9.66E+04	1.77E+05	-9.64E+04	1.76E+05	-2.22E+06	3.23E+06
1/15	2.61E+04	-1.17E+05	2.54E+05	-1.17E+05	2.53E+05	-2.14E+06	3.40E+06
1/10	5.87E+04	-1.60E+05	4.37E+05	-1.59E+05	4.35E+05	-2.18E+06	3.76E+06

Table Q-493. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.61E+03	-4.35E+04	4.85E+04	-4.33E+04	4.83E+04	-2.69E+06	2.80E+06
1/20	1.46E+04	-1.16E+05	1.75E+05	-1.16E+05	1.74E+05	-2.61E+06	3.20E+06
1/15	2.59E+04	-1.46E+05	2.54E+05	-1.45E+05	2.53E+05	-2.57E+06	3.40E+06
1/10	5.84E+04	-2.02E+05	4.37E+05	-1.99E+05	4.34E+05	-2.57E+06	3.76E+06

Table Q-494. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.71E+03	-3.78E+04	5.72E+04	-3.26E+04	5.62E+04	-2.48E+06	2.85E+06
1/20	7.19E+04	-1.02E+05	2.63E+05	-7.81E+04	2.47E+05	-3.00E+06	3.51E+06
1/15	1.16E+05	-1.52E+05	3.96E+05	-1.17E+05	3.86E+05	-3.50E+06	4.04E+06
1/10	2.15E+05	-2.98E+05	1.14E+06	-2.46E+05	8.50E+05	-4.61E+06	6.35E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-495. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-496. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.24E+04	-7.20E+04	3.18E+04	-6.76E+04	3.12E+04	-3.31E+06	2.61E+06
1/20	-1.05E+05	-4.98E+05	7.74E+04	-4.32E+05	5.65E+04	-6.55E+06	3.22E+06
1/15	-1.56E+05	-7.61E+05	1.76E+05	-7.35E+05	1.34E+05	-8.67E+06	4.36E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

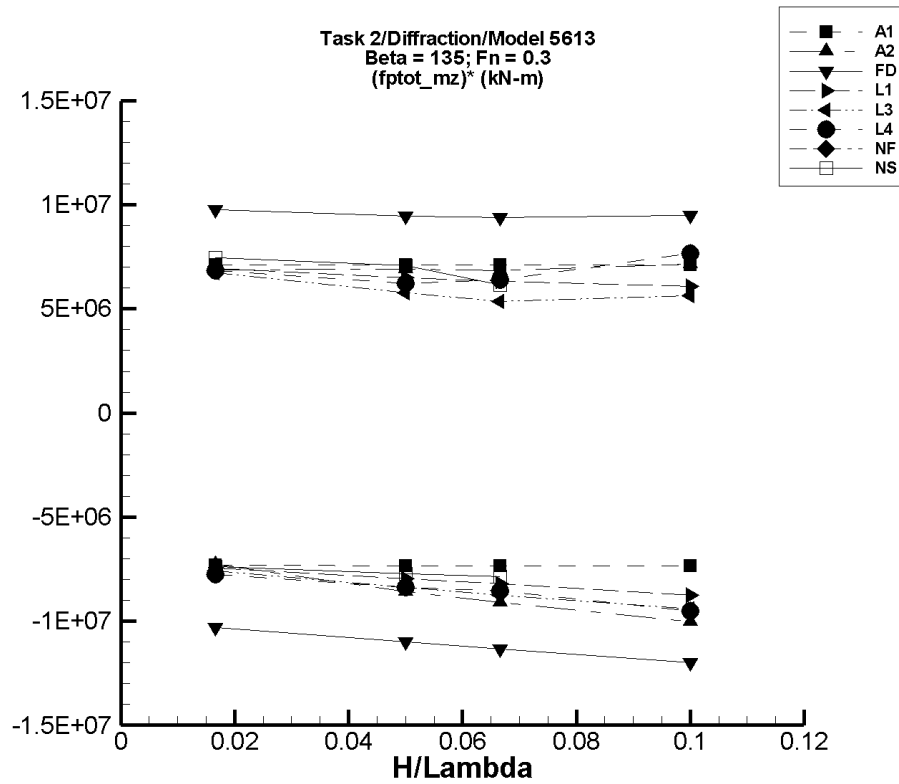


Figure Q-63. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-497. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	85.0	-1.22E+05	1.21E+05	-1.22E+05	1.18E+05	-7.32E+06	7.10E+06
1/20	256.	-3.68E+05	3.64E+05	-3.67E+05	3.56E+05	-7.34E+06	7.12E+06
1/15	341.	-4.91E+05	4.86E+05	-4.90E+05	4.75E+05	-7.35E+06	7.12E+06
1/10	512.	-7.37E+05	7.30E+05	-7.35E+05	7.13E+05	-7.35E+06	7.12E+06

Table Q-498. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{ptot}})^*$ <b>Max.</b> (kN-m)
1/60	217.	-1.28E+05	1.19E+05	-1.21E+05	1.15E+05	-7.29E+06	6.87E+06
1/20	-930.	-4.92E+05	3.71E+05	-4.30E+05	3.45E+05	-8.58E+06	6.92E+06
1/15	-763.	-6.15E+05	4.81E+05	-6.08E+05	4.56E+05	-9.11E+06	6.85E+06
1/10	-4.29E+03	-1.03E+06	7.46E+05	-1.01E+06	7.09E+05	-1.00E+07	7.13E+06

Table Q-499. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-14.2	-1.76E+05	1.66E+05	-1.72E+05	1.63E+05	-1.03E+07	9.77E+06
1/20	-334.	-5.65E+05	4.80E+05	-5.50E+05	4.73E+05	-1.10E+07	9.46E+06
1/15	-696.	-7.77E+05	6.31E+05	-7.56E+05	6.25E+05	-1.13E+07	9.39E+06
1/10	-1.61E+03	-1.23E+06	9.68E+05	-1.20E+06	9.47E+05	-1.20E+07	9.49E+06

Table Q-500. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{ptot}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> $(M_z^{\text{ptot}})^*$ <b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.66E+03	-1.24E+05	1.18E+05	-1.22E+05	1.17E+05	-7.44E+06	6.94E+06
1/20	1.49E+04	-3.87E+05	3.42E+05	-3.83E+05	3.40E+05	-7.96E+06	6.49E+06
1/15	2.64E+04	-5.28E+05	4.50E+05	-5.22E+05	4.47E+05	-8.22E+06	6.31E+06
1/10	5.94E+04	-8.28E+05	6.72E+05	-8.16E+05	6.68E+05	-8.75E+06	6.08E+06

Table Q-501. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.67E+03	-1.26E+05	1.15E+05	-1.24E+05	1.14E+05	-7.57E+06	6.72E+06
1/20	1.49E+04	-4.09E+05	3.04E+05	-4.04E+05	3.03E+05	-8.37E+06	5.77E+06
1/15	2.65E+04	-5.64E+05	3.86E+05	-5.57E+05	3.83E+05	-8.75E+06	5.34E+06
1/10	5.95E+04	-8.96E+05	6.32E+05	-8.82E+05	6.23E+05	-9.42E+06	5.63E+06

Table Q-502. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>M_z^{\text{ptot}}</math></b>		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	7.63E+03	-1.31E+05	1.30E+05	-1.22E+05	1.22E+05	-7.76E+06	6.84E+06
1/20	6.17E+04	-3.71E+05	5.08E+05	-3.57E+05	3.72E+05	-8.37E+06	6.21E+06
1/15	9.95E+04	-4.94E+05	9.27E+05	-4.70E+05	5.26E+05	-8.54E+06	6.40E+06
1/10	1.98E+05	-8.05E+05	9.99E+05	-7.52E+05	9.64E+05	-9.50E+06	7.66E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-503. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-504. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.86E+03	-1.36E+05	1.16E+05	-1.33E+05	1.14E+05	-7.39E+06	7.45E+06
1/20	-7.88E+04	-4.76E+05	3.13E+05	-4.65E+05	2.76E+05	-7.72E+06	7.10E+06
1/15	-1.22E+05	-6.57E+05	3.01E+05	-6.46E+05	2.89E+05	-7.87E+06	6.15E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

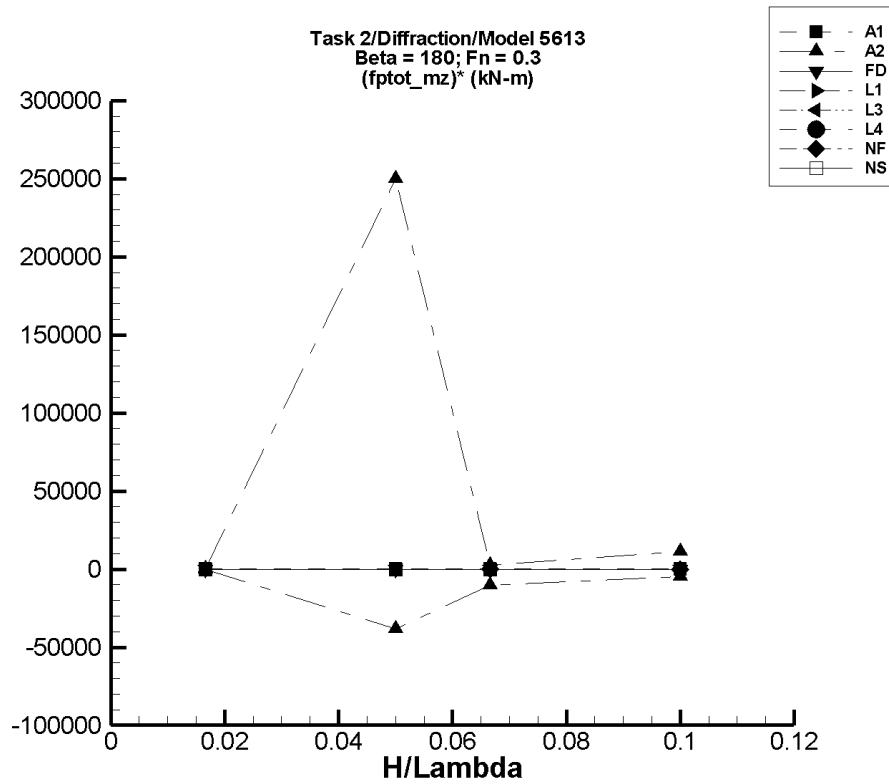


Figure Q-64. Minimum and maximum of filtered  $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-505. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.19E-03	-2.36	2.65	-2.29	2.32	-137.	139.
1/20	-3.59E-03	-7.10	7.99	-6.88	6.98	-138.	140.
1/15	-4.79E-03	-9.48	10.7	-9.19	9.31	-138.	140.
1/10	-7.18E-03	-14.2	16.0	-13.8	14.0	-138.	140.

Table Q-506. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.42E-03	-2.31	2.61	-2.24	2.26	-134.	136.
1/20	776.	-6.95	9.94E+04	-1.13E+03	1.33E+04	-3.82E+04	2.50E+05
1/15	-108.	-5.96E+03	18.8	-793.	76.2	-1.03E+04	2.77E+03
1/10	216.	-1.13E+03	9.92E+03	-251.	1.34E+03	-4.67E+03	1.12E+04

Table Q-507. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$	Unfiltered $M_z^{\text{ptot}}$		Filtered $M_z^{\text{ptot}}$		Filtered $(M_z^{\text{ptot}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.03E-04	-0.101	0.109	-6.47E-02	8.61E-02	-3.93	5.12
1/20	-2.14E-03	-0.295	0.324	-0.186	0.271	-3.67	5.45
1/15	-2.73E-03	-0.397	0.436	-0.248	0.360	-3.67	5.43
1/10	1.49E-02	-0.590	0.731	-0.410	0.538	-4.25	5.23

TASK 2/DIFFRACTION/MODEL 5613

Table Q–508. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–509. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–510. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_z^{\text{ptot}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_z^{\text{ptot}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q–511. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	-8.69E-11	-1.20E-09	6.91E-10	-4.38E-10	4.86E-10	-7.02E-09	1.15E-08
1/15	4.07E-10	-6.39E-10	1.89E-09	-2.52E-10	1.31E-09	-9.90E-09	1.35E-08
1/10	-4.41E-10	-2.97E-09	1.84E-09	-1.79E-09	1.62E-09	-1.35E-08	2.07E-08

Table Q–512. Minimum and Maximum of Variables  $M_z^{\text{ptot}}$  and  $(M_z^{\text{ptot}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{ptot}}$ Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-3.36E-03	-0.389	0.439	-4.90E-02	3.84E-02	-2.74	2.51
1/20	-1.51E-02	-0.565	0.792	-8.48E-02	8.38E-02	-1.39	1.98
1/15	-2.49E-03	-1.30	0.810	-0.149	0.153	-2.20	2.34
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

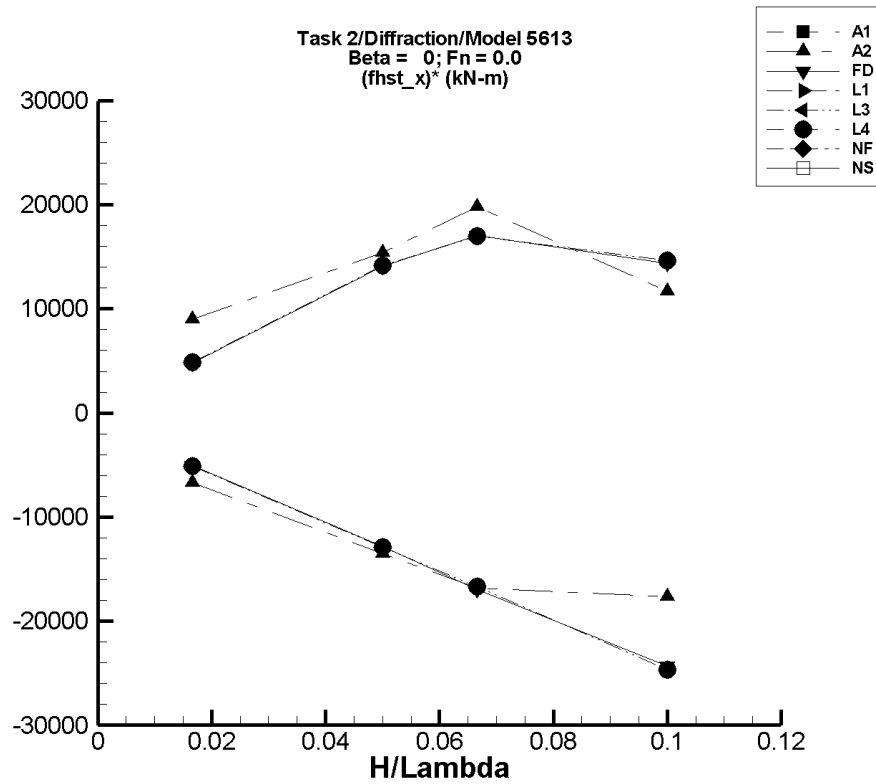


Figure Q-65. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-513. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-514. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.3	-96.7	180.	-89.9	171.	-6.67E+03	9.00E+03
1/20	28.5	-681.	864.	-646.	800.	-1.35E+04	1.54E+04
1/15	1.74	-1.18E+03	1.42E+03	-1.12E+03	1.32E+03	-1.68E+04	1.98E+04
1/10	117.	-1.80E+03	1.47E+03	-1.65E+03	1.29E+03	-1.77E+04	1.17E+04

Table Q-515. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-11.3	-99.1	72.1	-95.7	69.2	-5.06E+03	4.83E+03
1/20	-19.5	-688.	703.	-661.	685.	-1.28E+04	1.41E+04
1/15	-13.3	-1.19E+03	1.15E+03	-1.15E+03	1.12E+03	-1.70E+04	1.70E+04
1/10	-11.4	-2.62E+03	1.52E+03	-2.44E+03	1.42E+03	-2.43E+04	1.44E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-516. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-517. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.1	-127.	42.2	-126.	40.9	-5.14E+03	4.86E+03
1/20	-47.2	-700.	664.	-691.	660.	-1.29E+04	1.41E+04
1/15	-42.4	-1.17E+03	1.10E+03	-1.16E+03	1.09E+03	-1.67E+04	1.70E+04
1/10	-30.3	-2.56E+03	1.46E+03	-2.50E+03	1.43E+03	-2.47E+04	1.46E+04

Table Q-518. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.1	-127.	42.2	-126.	40.9	-5.14E+03	4.86E+03
1/20	-47.2	-700.	664.	-691.	660.	-1.29E+04	1.41E+04
1/15	-42.4	-1.17E+03	1.10E+03	-1.16E+03	1.09E+03	-1.67E+04	1.70E+04
1/10	-30.3	-2.56E+03	1.46E+03	-2.50E+03	1.43E+03	-2.47E+04	1.46E+04

Table Q-519. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-520. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

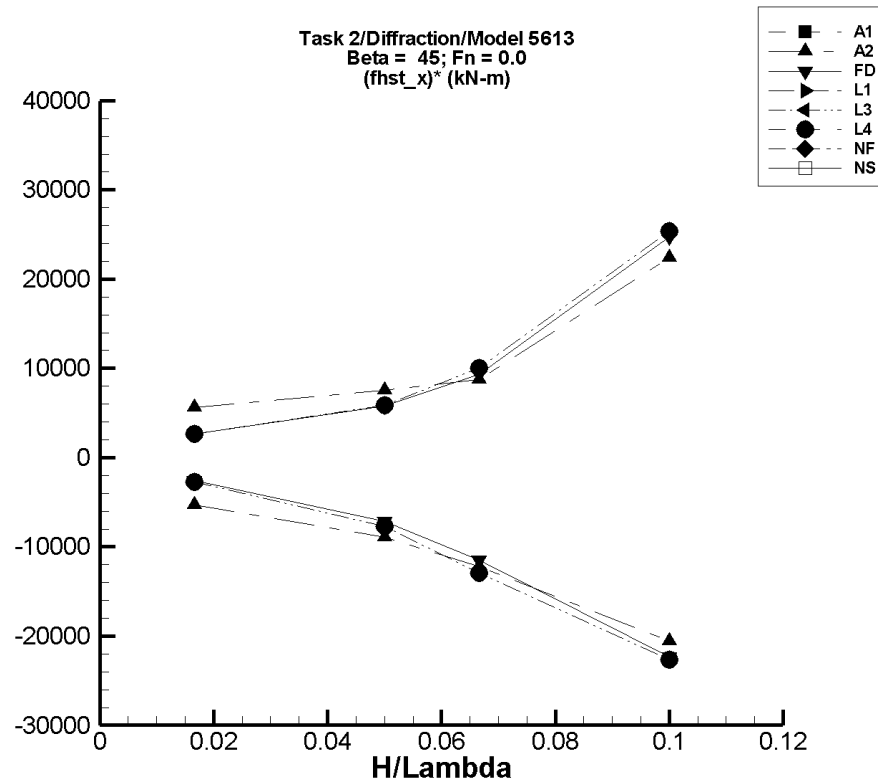


Figure Q-66. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-521. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-522. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	20.9	-71.8	117.	-67.8	114.	-5.32E+03	5.61E+03
1/20	2.32	-1.58E+03	707.	-444.	379.	-8.92E+03	7.54E+03
1/15	5.85	-1.04E+03	678.	-807.	591.	-1.22E+04	8.77E+03
1/10	46.1	-2.29E+03	2.34E+03	-2.01E+03	2.29E+03	-2.06E+04	2.24E+04

Table Q-523. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-9.90	-55.2	35.5	-53.4	33.8	-2.61E+03	2.62E+03
1/20	1.90E-02	-410.	304.	-358.	288.	-7.17E+03	5.77E+03
1/15	4.88	-978.	658.	-759.	626.	-1.15E+04	9.32E+03
1/10	-10.8	-2.35E+03	2.54E+03	-2.24E+03	2.46E+03	-2.23E+04	2.48E+04

Table Q-524. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



TASK 2/DIFFRACTION/MODEL 5613

Table Q-525. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-38.9	-85.4	5.43	-84.7	4.80	-2.75E+03	2.62E+03
1/20	-34.7	-438.	264.	-421.	259.	-7.73E+03	5.87E+03
1/15	-43.5	-1.02E+03	643.	-908.	626.	-1.30E+04	1.00E+04
1/10	-48.0	-2.36E+03	2.53E+03	-2.31E+03	2.49E+03	-2.26E+04	2.54E+04

Table Q-526. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-38.9	-85.4	5.43	-84.7	4.80	-2.75E+03	2.62E+03
1/20	-34.7	-438.	264.	-421.	259.	-7.73E+03	5.87E+03
1/15	-43.5	-1.02E+03	643.	-908.	626.	-1.30E+04	1.00E+04
1/10	-48.0	-2.36E+03	2.53E+03	-2.31E+03	2.49E+03	-2.26E+04	2.54E+04

Table Q-527. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-528. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

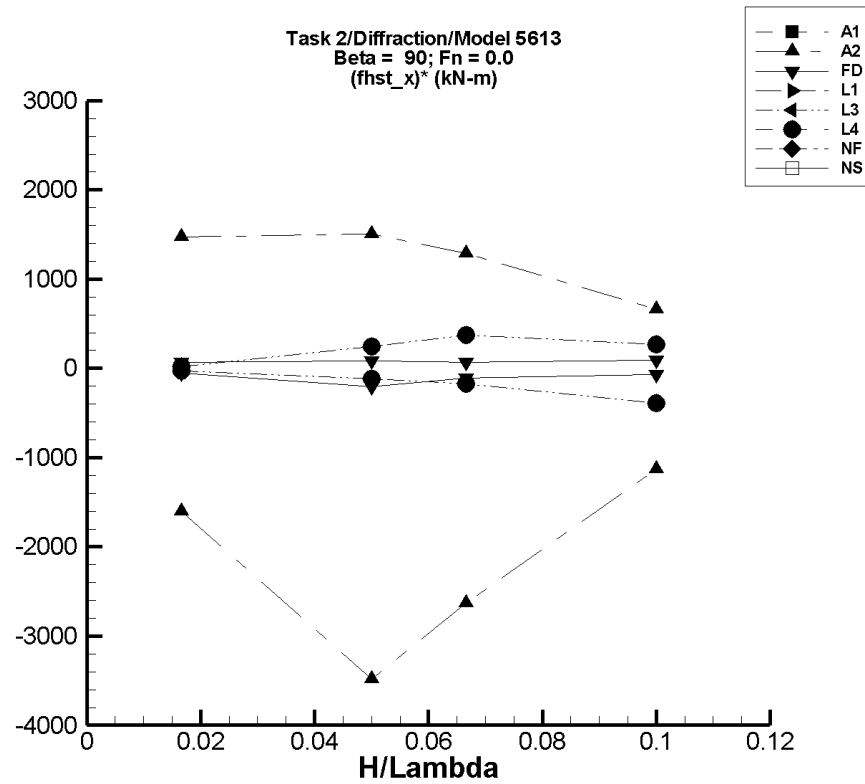


Figure Q-67. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-529. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-530. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.3	-13.1	45.7	-5.42	45.8	-1.60E+03	1.47E+03
1/20	0.196	-1.47E+03	81.4	-174.	75.5	-3.48E+03	1.51E+03
1/15	-20.8	-531.	72.9	-196.	65.3	-2.63E+03	1.29E+03
1/10	-18.1	-366.	99.1	-131.	48.1	-1.13E+03	662.

Table Q-531. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.4	-11.3	-9.04	-11.2	-9.26	-52.5	65.5
1/20	-12.7	-23.5	-7.90	-22.9	-8.53	-204.	82.8
1/15	-12.9	-22.6	-3.13	-20.3	-8.54	-112.	64.7
1/10	-8.39	-27.6	5.17	-15.5	0.708	-70.9	91.0

TASK 2/DIFFRACTION/MODEL 5613

Table Q-532. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-533. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.3	-39.8	-38.8	-39.8	-39.0	-25.0	20.1
1/20	-36.7	-42.9	-24.2	-42.6	-24.3	-119.	247.
1/15	-33.3	-46.0	-7.96	-45.0	-8.28	-176.	375.
1/10	-26.6	-70.0	16.0	-65.7	-2.86E-02	-391.	266.

Table Q-534. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.3	-39.8	-38.8	-39.8	-39.0	-25.0	20.1
1/20	-36.7	-42.9	-24.2	-42.6	-24.3	-119.	247.
1/15	-33.3	-46.0	-7.96	-45.0	-8.28	-176.	375.
1/10	-26.6	-70.0	16.0	-65.7	-2.86E-02	-391.	266.

Table Q-535. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-536. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

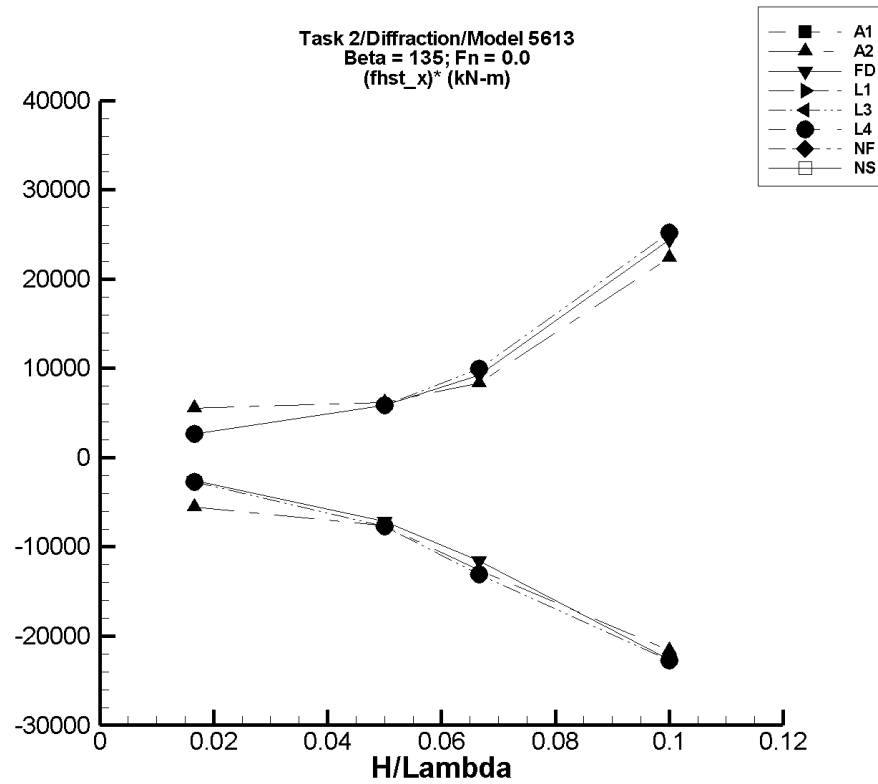


Figure Q-68. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-537. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-538. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.6	-71.8	117.	-71.4	114.	-5.58E+03	5.56E+03
1/20	18.3	-414.	355.	-363.	326.	-7.62E+03	6.16E+03
1/15	14.7	-1.07E+03	755.	-826.	574.	-1.26E+04	8.38E+03
1/10	42.4	-2.32E+03	2.34E+03	-2.12E+03	2.28E+03	-2.16E+04	2.24E+04

Table Q-539. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.5	-55.3	35.6	-53.5	33.6	-2.58E+03	2.65E+03
1/20	-2.72	-411.	304.	-359.	288.	-7.12E+03	5.82E+03
1/15	11.9	-971.	658.	-760.	626.	-1.16E+04	9.22E+03
1/10	21.8	-2.35E+03	2.55E+03	-2.24E+03	2.46E+03	-2.27E+04	2.44E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-540. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-541. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.0	-85.4	5.43	-84.7	4.79	-2.74E+03	2.63E+03
1/20	-35.7	-438.	264.	-421.	259.	-7.71E+03	5.89E+03
1/15	-36.6	-1.02E+03	643.	-907.	627.	-1.31E+04	9.95E+03
1/10	-35.4	-2.36E+03	2.53E+03	-2.31E+03	2.49E+03	-2.28E+04	2.52E+04

Table Q-542. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.0	-85.4	5.43	-84.7	4.79	-2.74E+03	2.63E+03
1/20	-35.7	-438.	264.	-421.	259.	-7.71E+03	5.89E+03
1/15	-36.6	-1.02E+03	643.	-907.	627.	-1.31E+04	9.95E+03
1/10	-35.4	-2.36E+03	2.53E+03	-2.31E+03	2.49E+03	-2.28E+04	2.52E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-543. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-544. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

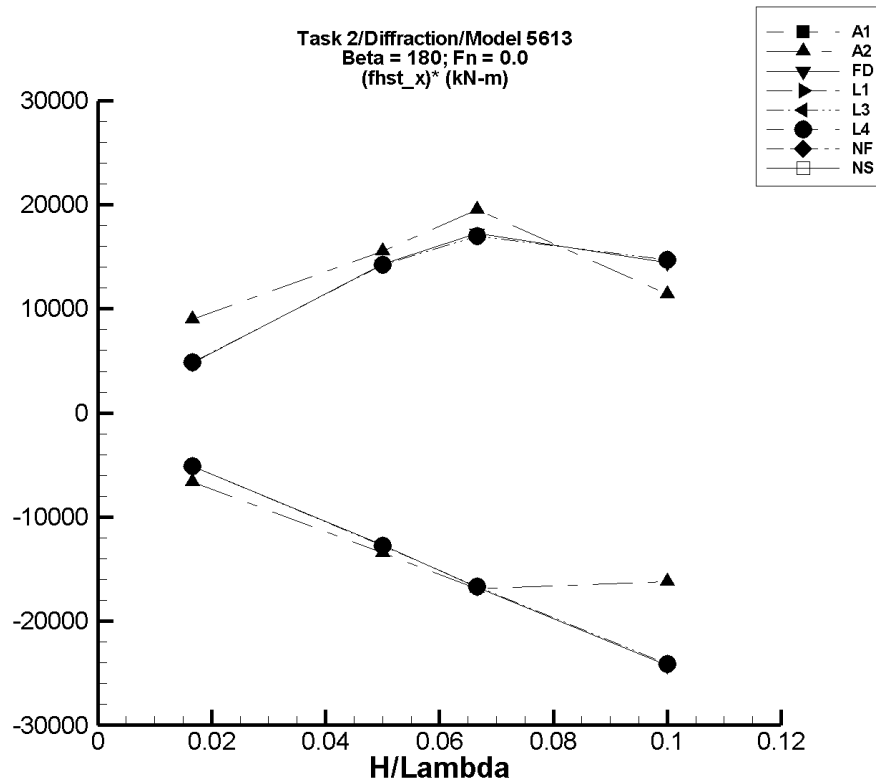


Figure Q-69. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-545. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-546. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.2	-96.8	180.	-89.6	172.	-6.65E+03	9.03E+03
1/20	25.3	-683.	873.	-647.	803.	-1.34E+04	1.56E+04
1/15	10.3	-1.17E+03	1.40E+03	-1.12E+03	1.31E+03	-1.69E+04	1.95E+04
1/10	141.	-1.78E+03	1.46E+03	-1.48E+03	1.28E+03	-1.62E+04	1.14E+04

Table Q-547. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.9	-99.1	72.1	-95.8	69.1	-5.09E+03	4.80E+03
1/20	-28.2	-689.	704.	-661.	685.	-1.27E+04	1.43E+04
1/15	-26.7	-1.19E+03	1.15E+03	-1.14E+03	1.12E+03	-1.68E+04	1.73E+04
1/10	-19.0	-2.63E+03	1.52E+03	-2.45E+03	1.42E+03	-2.43E+04	1.44E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-548. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-549. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.1	-127.	42.3	-126.	40.8	-5.15E+03	4.85E+03
1/20	-52.2	-700.	664.	-691.	660.	-1.28E+04	1.42E+04
1/15	-44.3	-1.17E+03	1.10E+03	-1.16E+03	1.09E+03	-1.67E+04	1.70E+04
1/10	-39.1	-2.56E+03	1.46E+03	-2.45E+03	1.43E+03	-2.41E+04	1.47E+04

Table Q-550. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.1	-127.	42.3	-126.	40.8	-5.15E+03	4.85E+03
1/20	-52.2	-700.	664.	-691.	660.	-1.28E+04	1.42E+04
1/15	-44.3	-1.17E+03	1.10E+03	-1.16E+03	1.09E+03	-1.67E+04	1.70E+04
1/10	-39.1	-2.56E+03	1.46E+03	-2.45E+03	1.43E+03	-2.41E+04	1.47E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–551. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–552. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

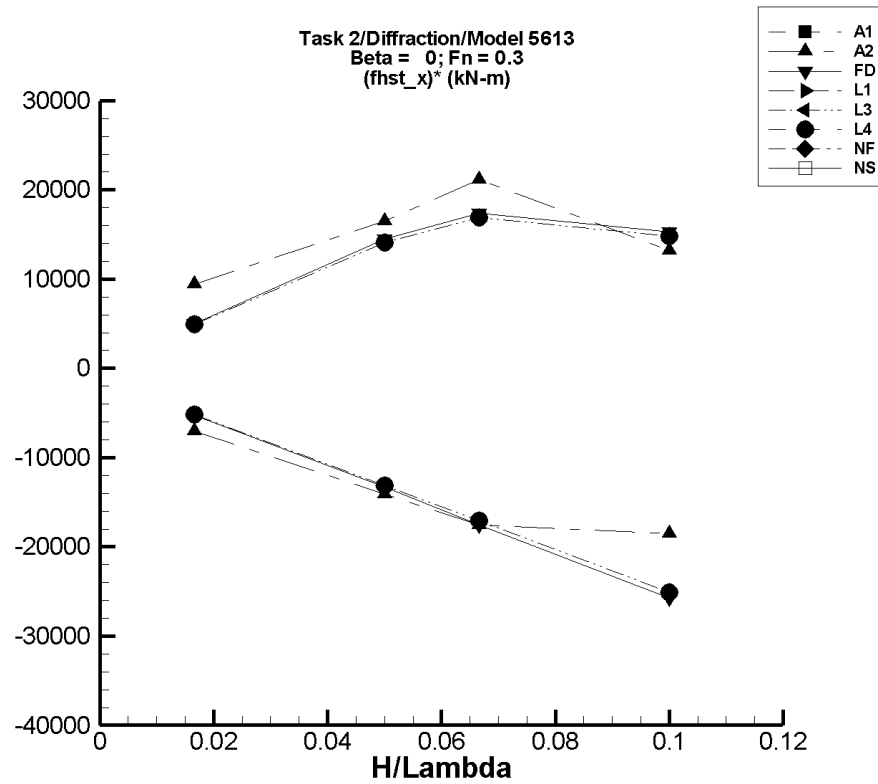


Figure Q-70. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-553. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-554. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.4	-96.8	180.	-96.4	179.	-7.07E+03	9.46E+03
1/20	25.4	-683.	874.	-681.	850.	-1.41E+04	1.65E+04
1/15	-2.07	-1.18E+03	1.42E+03	-1.17E+03	1.41E+03	-1.76E+04	2.12E+04
1/10	132.	-1.83E+03	1.47E+03	-1.72E+03	1.45E+03	-1.85E+04	1.32E+04

Table Q-555. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-11.3	-99.1	72.1	-98.9	71.8	-5.26E+03	4.98E+03
1/20	-21.5	-689.	704.	-688.	701.	-1.33E+04	1.45E+04
1/15	-16.3	-1.19E+03	1.15E+03	-1.19E+03	1.14E+03	-1.76E+04	1.74E+04
1/10	-19.4	-2.63E+03	1.52E+03	-2.59E+03	1.51E+03	-2.58E+04	1.53E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-556. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-557. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.2	-127.	42.3	-127.	42.1	-5.22E+03	4.94E+03
1/20	-40.9	-700.	664.	-700.	663.	-1.32E+04	1.41E+04
1/15	-29.6	-1.17E+03	1.10E+03	-1.17E+03	1.10E+03	-1.71E+04	1.69E+04
1/10	-29.0	-2.56E+03	1.46E+03	-2.54E+03	1.45E+03	-2.51E+04	1.48E+04

Table Q-558. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.2	-127.	42.3	-127.	42.1	-5.22E+03	4.94E+03
1/20	-40.9	-700.	664.	-700.	663.	-1.32E+04	1.41E+04
1/15	-29.6	-1.17E+03	1.10E+03	-1.17E+03	1.10E+03	-1.71E+04	1.69E+04
1/10	-29.0	-2.56E+03	1.46E+03	-2.54E+03	1.45E+03	-2.51E+04	1.48E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-559. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-560. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

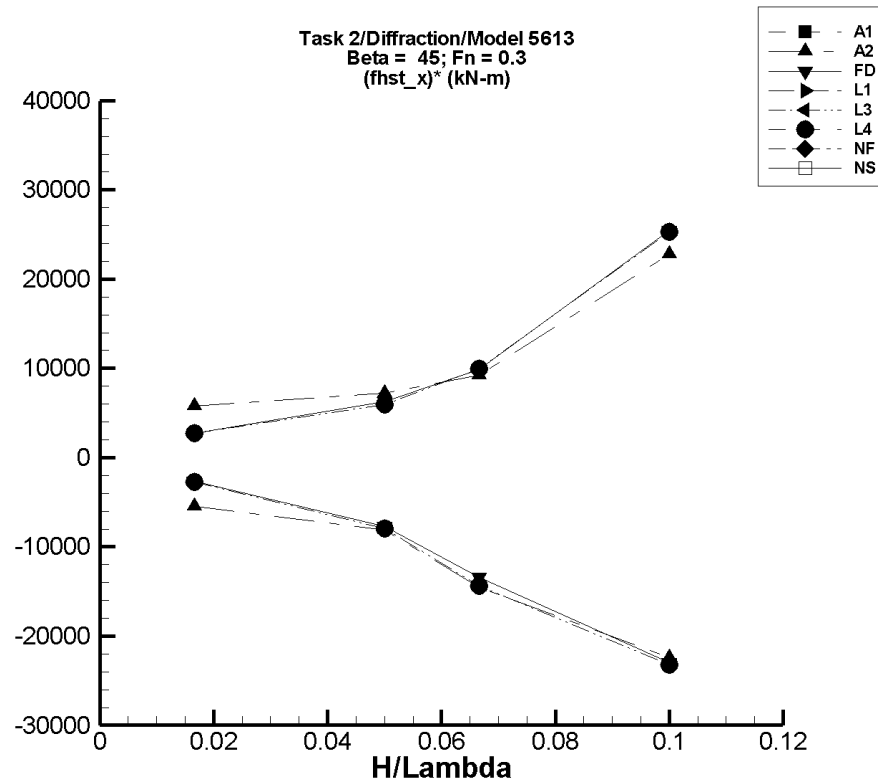


Figure Q-71. Minimum and maximum of filtered  $(F_x^{hst} - \langle F_x^{hst} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-561. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-562. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	19.9	-71.8	117.	-70.9	117.	-5.45E+03	5.80E+03
1/20	15.2	-542.	698.	-390.	375.	-8.11E+03	7.20E+03
1/15	10.5	-1.05E+03	668.	-957.	624.	-1.45E+04	9.21E+03
1/10	40.5	-2.31E+03	2.34E+03	-2.20E+03	2.32E+03	-2.24E+04	2.28E+04

Table Q-563. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.1	-55.3	35.5	-54.9	35.1	-2.69E+03	2.72E+03
1/20	-11.8	-411.	304.	-399.	300.	-7.75E+03	6.24E+03
1/15	-15.6	-978.	658.	-910.	642.	-1.34E+04	9.86E+03
1/10	-28.8	-2.36E+03	2.54E+03	-2.33E+03	2.51E+03	-2.30E+04	2.54E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-564. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-565. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-39.5	-85.4	5.43	-85.2	5.30	-2.74E+03	2.69E+03
1/20	-35.8	-438.	264.	-434.	263.	-7.97E+03	5.97E+03
1/15	-29.5	-1.01E+03	643.	-988.	635.	-1.44E+04	9.97E+03
1/10	-20.7	-2.36E+03	2.53E+03	-2.34E+03	2.51E+03	-2.32E+04	2.53E+04

Table Q-566. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-39.5	-85.4	5.43	-85.2	5.30	-2.74E+03	2.69E+03
1/20	-35.8	-438.	264.	-434.	263.	-7.97E+03	5.97E+03
1/15	-29.5	-1.01E+03	643.	-988.	635.	-1.44E+04	9.97E+03
1/10	-20.7	-2.36E+03	2.53E+03	-2.34E+03	2.51E+03	-2.32E+04	2.53E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-567. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-568. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

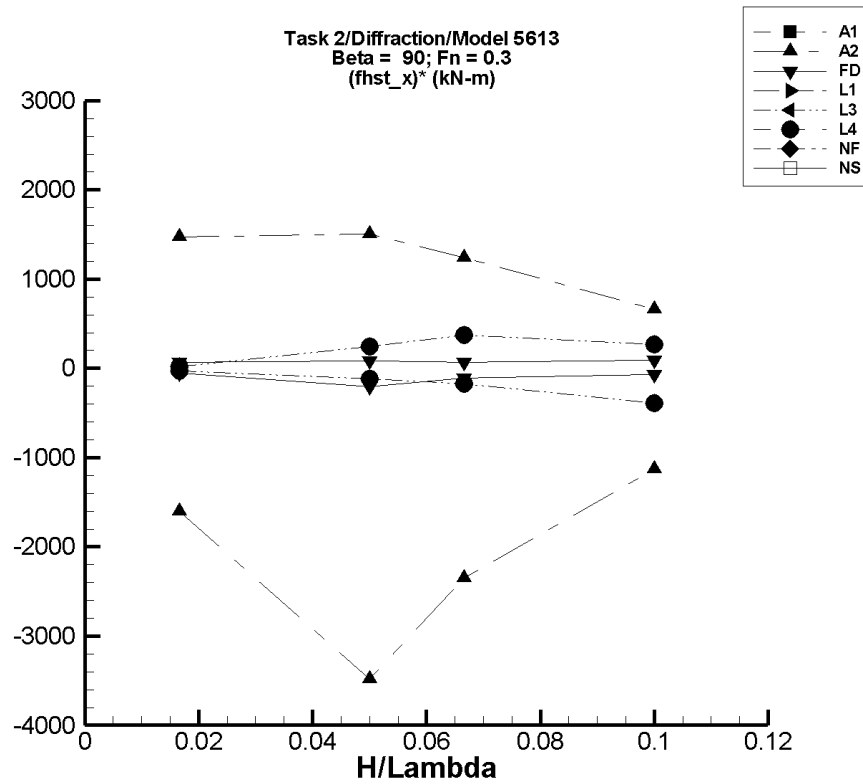


Figure Q-72. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-569. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-570. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.3	-13.1	45.7	-5.42	45.8	-1.60E+03	1.47E+03
1/20	0.196	-1.47E+03	81.4	-174.	75.5	-3.48E+03	1.51E+03
1/15	-16.9	-181.	72.9	-173.	65.6	-2.35E+03	1.24E+03
1/10	-18.1	-366.	99.1	-131.	48.1	-1.13E+03	662.

Table Q-571. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.4	-11.3	-9.04	-11.2	-9.26	-52.6	65.6
1/20	-12.7	-23.5	-7.90	-22.9	-8.53	-204.	82.8
1/15	-12.9	-22.6	-3.13	-20.3	-8.54	-112.	64.8
1/10	-8.39	-27.6	5.17	-15.5	0.709	-70.9	91.0



TASK 2/DIFFRACTION/MODEL 5613

Table Q-572. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-573. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.3	-39.8	-38.8	-39.8	-39.0	-25.0	20.1
1/20	-36.7	-42.9	-24.2	-42.6	-24.3	-119.	247.
1/15	-33.3	-46.0	-7.96	-45.0	-8.28	-176.	375.
1/10	-26.6	-70.0	16.0	-65.7	-2.86E-02	-391.	266.

Table Q-574. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-39.3	-39.8	-38.8	-39.8	-39.0	-25.0	20.1
1/20	-36.7	-42.9	-24.2	-42.6	-24.3	-119.	247.
1/15	-33.3	-46.0	-7.96	-45.0	-8.28	-176.	375.
1/10	-26.6	-70.0	16.0	-65.7	-2.86E-02	-391.	266.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-575. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-576. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

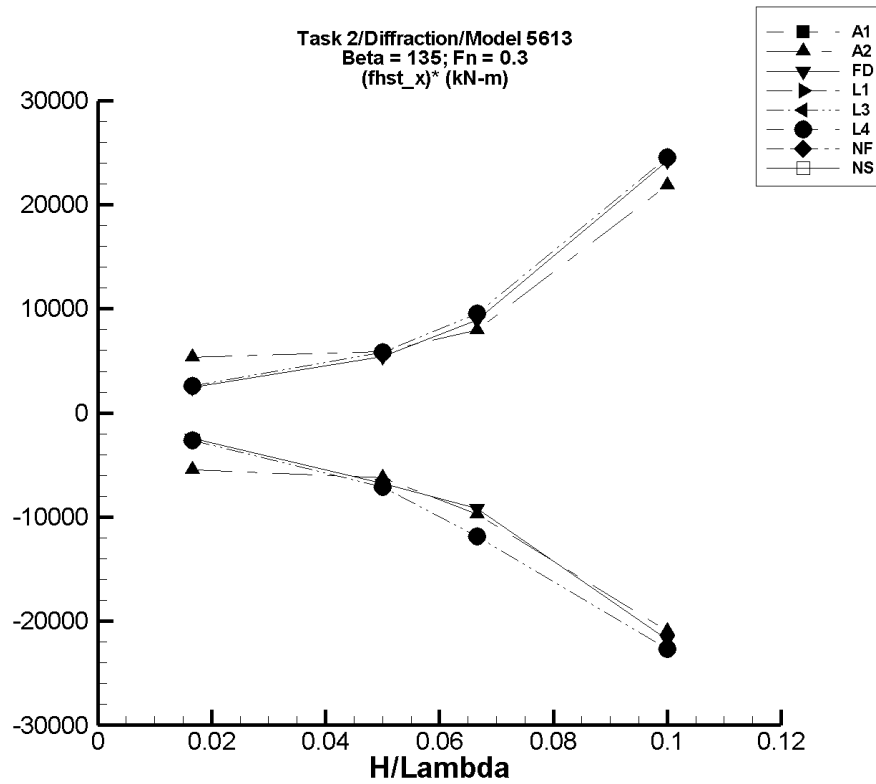


Figure Q-73. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-577. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-578. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.1	-71.7	117.	-69.5	110.	-5.44E+03	5.31E+03
1/20	14.1	-398.	354.	-298.	310.	-6.24E+03	5.91E+03
1/15	4.01	-1.05E+03	642.	-645.	536.	-9.74E+03	7.98E+03
1/10	24.4	-2.30E+03	2.34E+03	-2.07E+03	2.21E+03	-2.09E+04	2.19E+04

Table Q-579. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.0	-55.3	35.5	-51.0	30.9	-2.46E+03	2.46E+03
1/20	-3.55	-411.	304.	-341.	267.	-6.75E+03	5.41E+03
1/15	-2.47	-978.	649.	-614.	593.	-9.17E+03	8.94E+03
1/10	-5.01	-2.35E+03	2.52E+03	-2.18E+03	2.42E+03	-2.18E+04	2.42E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–580. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–581. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	-39.5	-85.4	5.43	-83.8	3.91	-2.66E+03	2.61E+03
1/20	-32.0	-438.	264.	-389.	260.	-7.15E+03	5.84E+03
1/15	-21.9	-1.01E+03	643.	-814.	616.	-1.19E+04	9.58E+03
1/10	2.01	-2.35E+03	2.53E+03	-2.26E+03	2.46E+03	-2.27E+04	2.46E+04

Table Q–582. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	<b>Unfiltered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>F_x^{\text{hst}}</math></b>		<b>Filtered <math>(F_x^{\text{hst}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	-39.5	-85.4	5.43	-83.8	3.91	-2.66E+03	2.61E+03
1/20	-32.0	-438.	264.	-389.	260.	-7.15E+03	5.84E+03
1/15	-21.9	-1.01E+03	643.	-814.	616.	-1.19E+04	9.58E+03
1/10	2.01	-2.35E+03	2.53E+03	-2.26E+03	2.46E+03	-2.27E+04	2.46E+04

Table Q-583. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-584. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

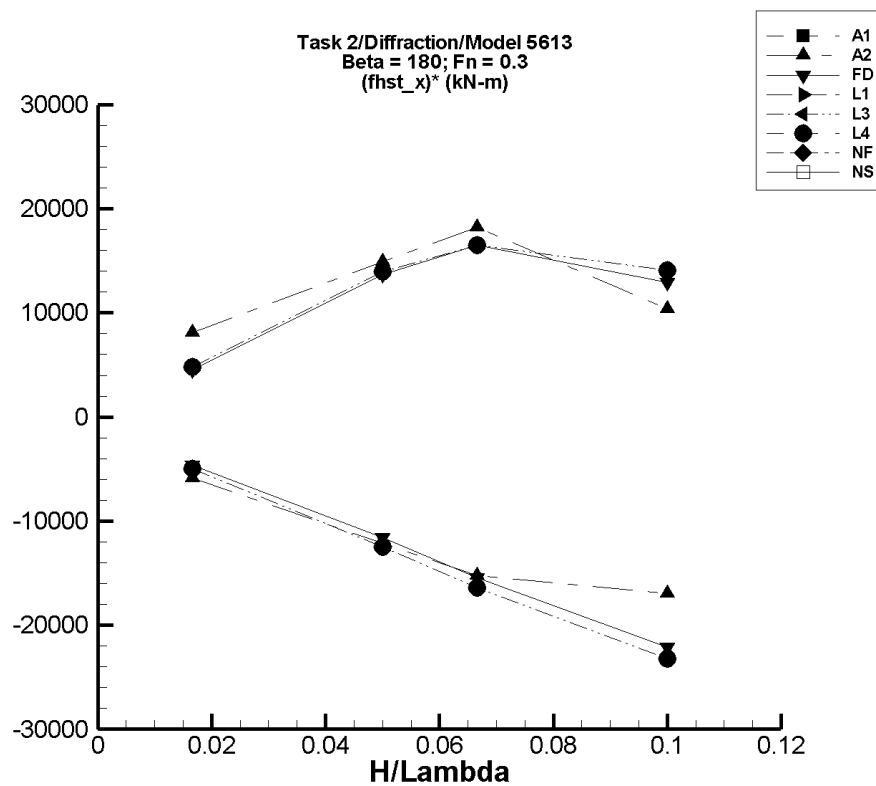


Figure Q-74. Minimum and maximum of filtered  $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-585. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-586. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	21.5	-96.6	179.	-76.0	156.	-5.85E+03	8.09E+03
1/20	25.8	-682.	852.	-581.	772.	-1.21E+04	1.49E+04
1/15	0.746	-1.17E+03	1.41E+03	-1.02E+03	1.21E+03	-1.52E+04	1.82E+04
1/10	93.8	-1.81E+03	1.44E+03	-1.60E+03	1.13E+03	-1.70E+04	1.04E+04

Table Q-587. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.3	-99.0	71.6	-87.8	64.7	-4.65E+03	4.50E+03
1/20	-25.5	-686.	703.	-604.	657.	-1.16E+04	1.37E+04
1/15	-21.0	-1.19E+03	1.15E+03	-1.05E+03	1.08E+03	-1.54E+04	1.65E+04
1/10	-23.6	-2.62E+03	1.51E+03	-2.23E+03	1.27E+03	-2.21E+04	1.29E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-588. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-589. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.2	-127.	42.2	-123.	39.4	-4.98E+03	4.78E+03
1/20	-46.1	-700.	664.	-670.	650.	-1.25E+04	1.39E+04
1/15	-27.6	-1.17E+03	1.10E+03	-1.12E+03	1.07E+03	-1.64E+04	1.65E+04
1/10	-38.9	-2.56E+03	1.46E+03	-2.36E+03	1.37E+03	-2.32E+04	1.41E+04

Table Q-590. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-40.2	-127.	42.2	-123.	39.4	-4.98E+03	4.78E+03
1/20	-46.1	-700.	664.	-670.	650.	-1.25E+04	1.39E+04
1/15	-27.6	-1.17E+03	1.10E+03	-1.12E+03	1.07E+03	-1.64E+04	1.65E+04
1/10	-38.9	-2.56E+03	1.46E+03	-2.36E+03	1.37E+03	-2.32E+04	1.41E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–591. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–592. Minimum and Maximum of Variables  $F_x^{\text{hst}}$  and  $(F_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{hst}} \rangle$	Unfiltered $F_x^{\text{hst}}$		Filtered $F_x^{\text{hst}}$		Filtered $(F_x^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

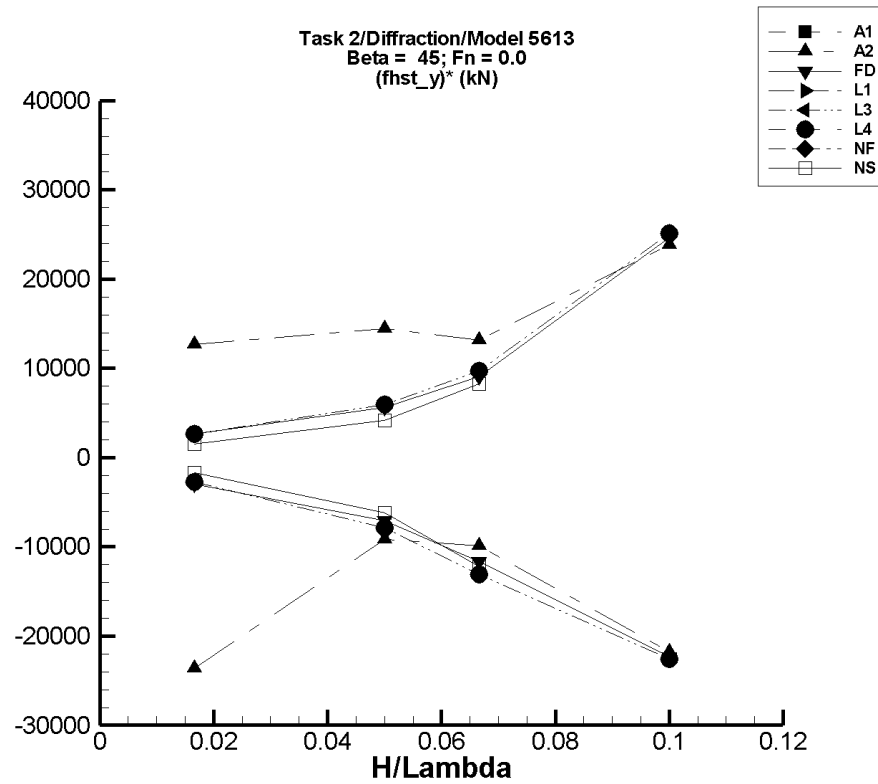


Figure Q-75. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-593. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-594. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.89E-02	-454.	267.	-393.	212.	-2.36E+04	1.27E+04
1/20	23.7	-1.93E+03	2.90E+03	-436.	745.	-9.19E+03	1.44E+04
1/15	79.5	-938.	3.05E+03	-579.	957.	-9.88E+03	1.32E+04
1/10	81.7	-2.37E+03	2.88E+03	-2.10E+03	2.47E+03	-2.18E+04	2.38E+04

Table Q–595. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.452	-52.6	50.3	-48.7	44.1	-2.95E+03	2.62E+03
1/20	12.7	-398.	310.	-343.	295.	-7.11E+03	5.65E+03
1/15	18.2	-991.	652.	-756.	621.	-1.16E+04	9.04E+03
1/10	-0.809	-2.36E+03	2.59E+03	-2.23E+03	2.46E+03	-2.23E+04	2.46E+04

Table Q–596. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-597. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.455	-45.4	44.7	-44.6	44.1	-2.70E+03	2.62E+03
1/20	2.06	-415.	303.	-393.	299.	-7.90E+03	5.93E+03
1/15	-10.2	-993.	656.	-883.	638.	-1.31E+04	9.72E+03
1/10	-20.7	-2.37E+03	2.53E+03	-2.28E+03	2.49E+03	-2.26E+04	2.51E+04

Table Q-598. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.455	-45.4	44.7	-44.6	44.1	-2.70E+03	2.62E+03
1/20	2.06	-415.	303.	-393.	299.	-7.90E+03	5.93E+03
1/15	-10.2	-993.	656.	-883.	638.	-1.31E+04	9.72E+03
1/10	-20.7	-2.37E+03	2.53E+03	-2.28E+03	2.49E+03	-2.26E+04	2.51E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-599. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-600. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.390	-29.5	26.6	-28.4	25.4	-1.68E+03	1.55E+03
1/20	-23.5	-373.	195.	-332.	185.	-6.16E+03	4.17E+03
1/15	-54.5	-966.	511.	-870.	495.	-1.22E+04	8.24E+03
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

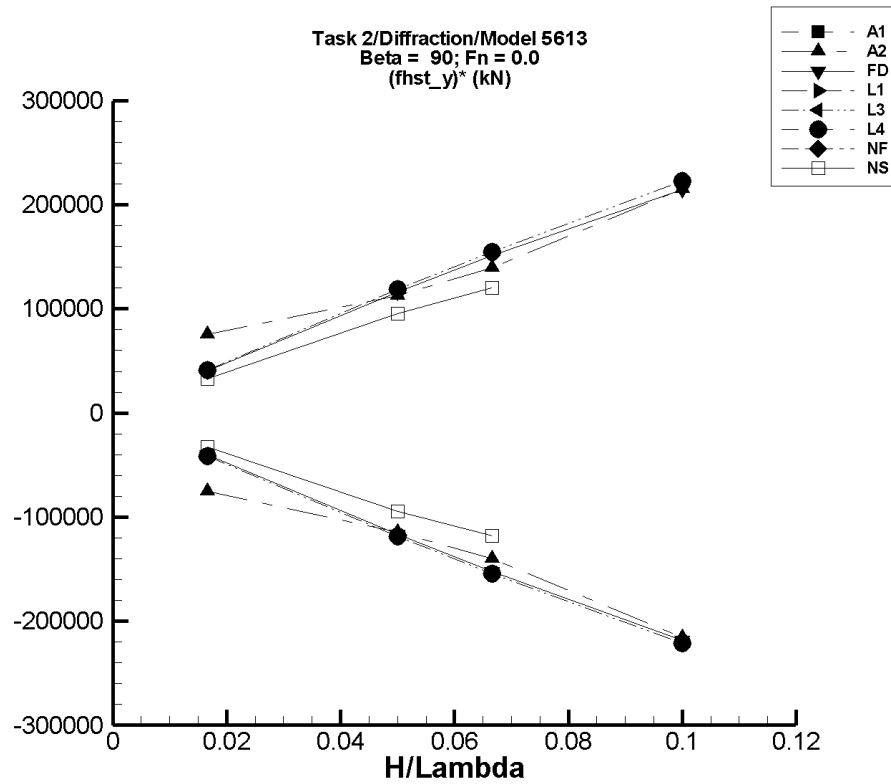


Figure Q-76. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-601. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-602. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.90	-1.33E+03	1.33E+03	-1.26E+03	1.26E+03	-7.56E+04	7.58E+04
1/20	32.3	-6.33E+03	6.30E+03	-5.69E+03	5.66E+03	-1.14E+05	1.13E+05
1/15	3.62	-9.64E+03	9.86E+03	-9.31E+03	9.29E+03	-1.40E+05	1.39E+05
1/10	-3.63	-2.27E+04	2.24E+04	-2.16E+04	2.15E+04	-2.16E+05	2.15E+05

Table Q–603. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.415	-696.	697.	-669.	668.	-4.02E+04	4.01E+04
1/20	14.4	-6.04E+03	6.04E+03	-5.81E+03	5.81E+03	-1.17E+05	1.16E+05
1/15	42.3	-1.05E+04	1.05E+04	-1.01E+04	1.01E+04	-1.52E+05	1.51E+05
1/10	182.	-2.27E+04	2.27E+04	-2.17E+04	2.17E+04	-2.19E+05	2.15E+05

Table Q–604. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-605. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.417	-697.	697.	-688.	687.	-4.12E+04	4.13E+04
1/20	-4.45	-6.01E+03	6.01E+03	-5.93E+03	5.93E+03	-1.19E+05	1.19E+05
1/15	-10.2	-1.05E+04	1.05E+04	-1.03E+04	1.03E+04	-1.55E+05	1.55E+05
1/10	-76.9	-2.26E+04	2.26E+04	-2.22E+04	2.22E+04	-2.21E+05	2.23E+05

Table Q-606. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.417	-697.	697.	-688.	687.	-4.12E+04	4.13E+04
1/20	-4.45	-6.01E+03	6.01E+03	-5.93E+03	5.93E+03	-1.19E+05	1.19E+05
1/15	-10.2	-1.05E+04	1.05E+04	-1.03E+04	1.03E+04	-1.55E+05	1.55E+05
1/10	-76.9	-2.26E+04	2.26E+04	-2.22E+04	2.22E+04	-2.21E+05	2.23E+05

Table Q-607. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-608. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.587	-567.	567.	-546.	544.	-3.27E+04	3.27E+04
1/20	-38.9	-4.96E+03	4.94E+03	-4.77E+03	4.74E+03	-9.47E+04	9.55E+04
1/15	-88.4	-8.16E+03	8.12E+03	-7.96E+03	7.93E+03	-1.18E+05	1.20E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

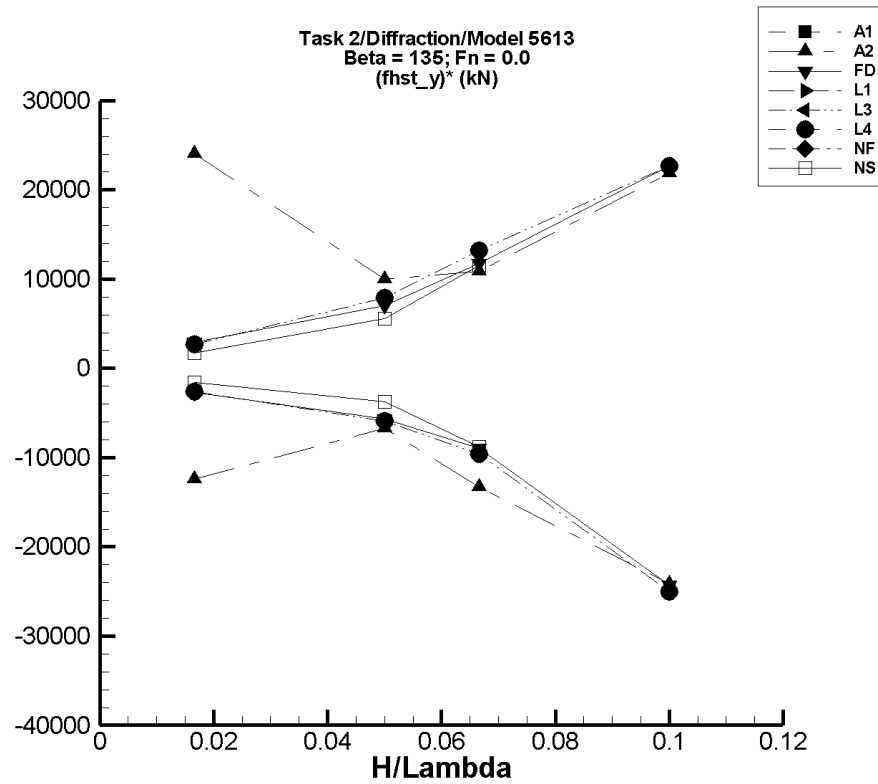


Figure Q-77. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-609. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-610. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-6.73	-268.	457.	-214.	393.	-1.24E+04	2.40E+04
1/20	16.8	-367.	2.83E+03	-320.	518.	-6.73E+03	1.00E+04
1/15	-52.1	-3.05E+03	1.31E+03	-939.	672.	-1.33E+04	1.09E+04
1/10	-58.0	-2.60E+03	2.55E+03	-2.47E+03	2.13E+03	-2.41E+04	2.19E+04

Table Q-611. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.201	-50.4	52.5	-44.2	48.8	-2.67E+03	2.92E+03
1/20	-9.52	-311.	401.	-295.	342.	-5.71E+03	7.04E+03
1/15	-25.3	-652.	968.	-622.	759.	-8.95E+03	1.18E+04
1/10	-29.9	-2.58E+03	2.36E+03	-2.46E+03	2.24E+03	-2.43E+04	2.27E+04

Table Q-612. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-613. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.307	-44.7	45.4	-44.1	44.6	-2.63E+03	2.69E+03
1/20	-0.987	-304.	415.	-298.	393.	-5.94E+03	7.88E+03
1/15	3.15	-653.	993.	-638.	883.	-9.62E+03	1.32E+04
1/10	8.71	-2.53E+03	2.38E+03	-2.49E+03	2.28E+03	-2.50E+04	2.27E+04

Table Q-614. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.307	-44.7	45.4	-44.1	44.6	-2.63E+03	2.69E+03
1/20	-0.987	-304.	415.	-298.	393.	-5.94E+03	7.88E+03
1/15	3.15	-653.	993.	-638.	883.	-9.62E+03	1.32E+04
1/10	8.71	-2.53E+03	2.38E+03	-2.49E+03	2.28E+03	-2.50E+04	2.27E+04



Table Q-615. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-616. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.469	-27.8	28.8	-26.7	27.7	-1.57E+03	1.69E+03
1/20	-31.6	-259.	298.	-218.	246.	-3.73E+03	5.55E+03
1/15	-58.8	-722.	756.	-647.	711.	-8.82E+03	1.15E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

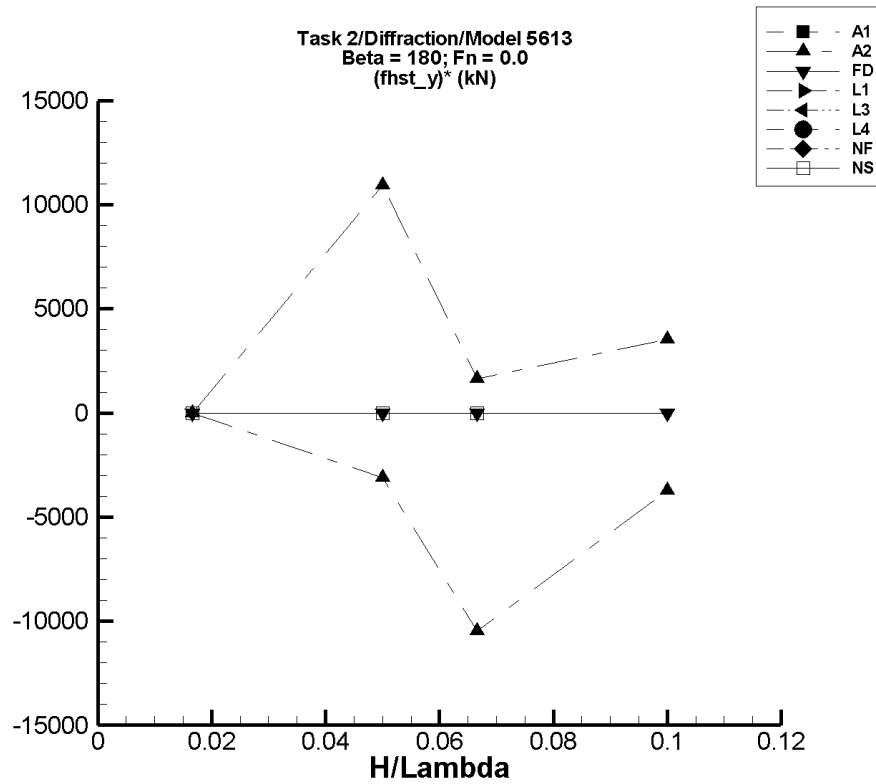


Figure Q-78. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-617. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-618. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-4.02E-06	-1.71E-04	1.32E-04	-1.13E-04	4.57E-05	-6.53E-03	2.98E-03
1/20	80.7	-3.23E-04	4.75E+03	-74.1	627.	-3.10E+03	1.09E+04
1/15	-19.5	-5.38E+03	676.	-718.	89.8	-1.05E+04	1.64E+03
1/10	13.5	-2.62E+03	2.61E+03	-359.	368.	-3.72E+03	3.54E+03

Table Q-619. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.21E-05	-4.07E-04	3.74E-04	-1.16E-05	8.12E-05	-2.02E-03	3.55E-03
1/20	3.12E-03	-1.49E-02	1.09E-02	-8.31E-04	9.95E-03	-7.91E-02	0.136
1/15	3.29E-03	-2.42E-03	1.63E-02	-7.47E-04	1.12E-02	-6.05E-02	0.119
1/10	1.43E-03	-1.99E-02	1.62E-02	-3.32E-03	6.74E-03	-4.74E-02	5.31E-02

Table Q-620. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-621. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-622. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

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Table Q-623. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-624. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-7.78E-05	-1.50E-03	1.69E-03	-6.90E-04	5.07E-04	-3.68E-02	3.51E-02
1/20	-1.11E-04	-2.54E-03	2.41E-03	-1.32E-03	8.48E-04	-2.41E-02	1.92E-02
1/15	-2.45E-04	-3.69E-03	3.08E-03	-1.46E-03	8.14E-04	-1.83E-02	1.59E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

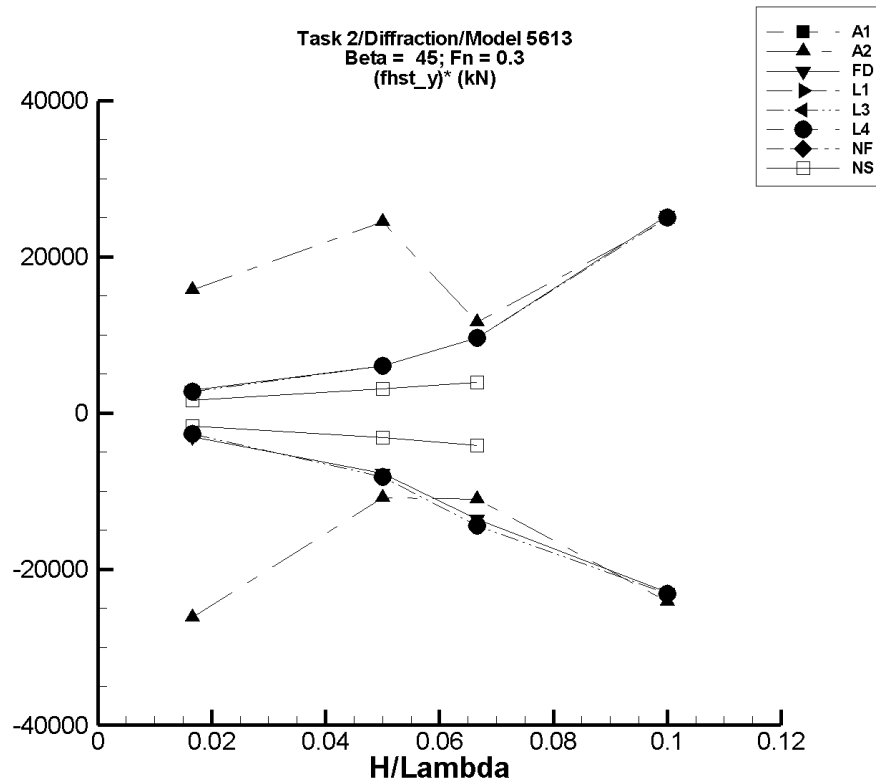


Figure Q-79. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-625. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-626. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.02	-457.	268.	-441.	258.	-2.62E+04	1.57E+04
1/20	38.1	-590.	2.87E+03	-504.	1.26E+03	-1.08E+04	2.45E+04
1/15	46.1	-1.32E+03	2.26E+03	-693.	821.	-1.11E+04	1.16E+04
1/10	66.9	-6.41E+03	6.63E+03	-2.35E+03	2.54E+03	-2.42E+04	2.47E+04



Table Q–627. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.198	-52.5	50.4	-51.4	48.9	-3.10E+03	2.92E+03
1/20	0.846	-401.	311.	-387.	303.	-7.77E+03	6.05E+03
1/15	-2.37	-987.	651.	-908.	637.	-1.36E+04	9.59E+03
1/10	-19.4	-2.36E+03	2.58E+03	-2.32E+03	2.51E+03	-2.30E+04	2.53E+04

Table Q–628. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-629. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.167	-45.4	44.7	-45.1	44.6	-2.69E+03	2.69E+03
1/20	0.948	-416.	303.	-407.	302.	-8.16E+03	6.03E+03
1/15	3.73	-990.	653.	-962.	643.	-1.45E+04	9.59E+03
1/10	6.14	-2.39E+03	2.53E+03	-2.31E+03	2.51E+03	-2.31E+04	2.50E+04

Table Q-630. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.167	-45.4	44.7	-45.1	44.6	-2.69E+03	2.69E+03
1/20	0.948	-416.	303.	-407.	302.	-8.16E+03	6.03E+03
1/15	3.73	-990.	653.	-962.	643.	-1.45E+04	9.59E+03
1/10	6.14	-2.39E+03	2.53E+03	-2.31E+03	2.51E+03	-2.31E+04	2.50E+04

Table Q-631. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-632. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.232	-29.2	28.2	-28.1	27.1	-1.67E+03	1.64E+03
1/20	-8.66	-174.	151.	-168.	144.	-3.19E+03	3.05E+03
1/15	-21.0	-332.	249.	-299.	241.	-4.17E+03	3.93E+03
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

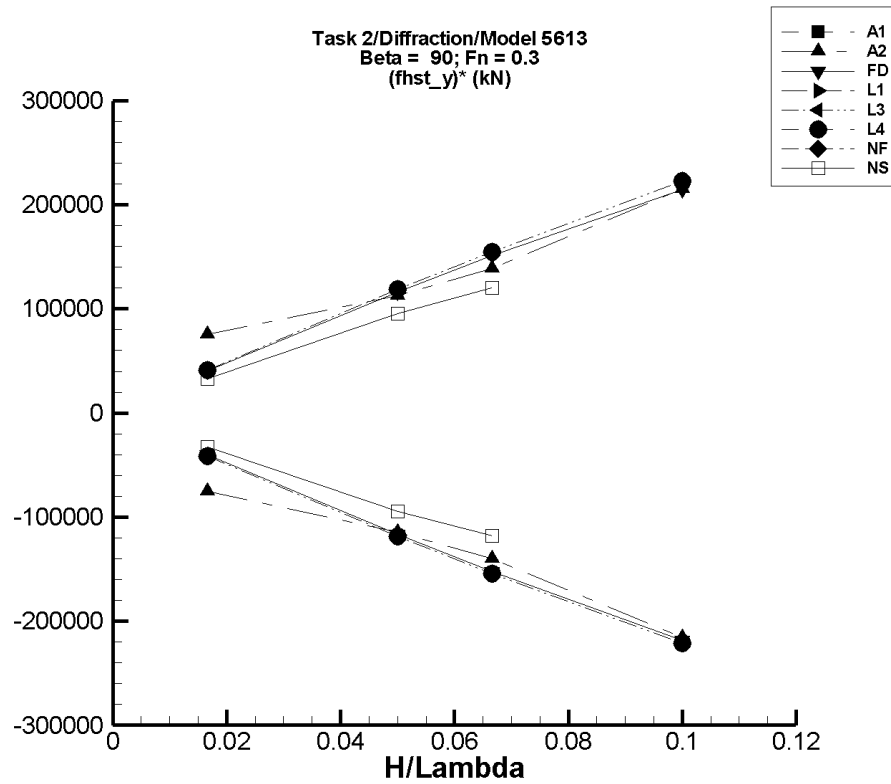


Figure Q–80. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-633. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-634. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.90	-1.33E+03	1.33E+03	-1.26E+03	1.26E+03	-7.56E+04	7.58E+04
1/20	32.3	-6.33E+03	6.30E+03	-5.69E+03	5.66E+03	-1.14E+05	1.13E+05
1/15	19.4	-9.64E+03	9.86E+03	-9.31E+03	9.29E+03	-1.40E+05	1.39E+05
1/10	-3.63	-2.27E+04	2.24E+04	-2.16E+04	2.15E+04	-2.16E+05	2.15E+05

Table Q–635. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.415	-696.	697.	-669.	668.	-4.02E+04	4.01E+04
1/20	14.4	-6.05E+03	6.04E+03	-5.81E+03	5.81E+03	-1.17E+05	1.16E+05
1/15	42.3	-1.05E+04	1.05E+04	-1.01E+04	1.01E+04	-1.52E+05	1.51E+05
1/10	182.	-2.27E+04	2.27E+04	-2.17E+04	2.17E+04	-2.19E+05	2.15E+05

Table Q–636. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-637. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.416	-697.	697.	-688.	687.	-4.12E+04	4.13E+04
1/20	-4.45	-6.01E+03	6.01E+03	-5.93E+03	5.93E+03	-1.19E+05	1.19E+05
1/15	-10.2	-1.05E+04	1.05E+04	-1.03E+04	1.03E+04	-1.55E+05	1.55E+05
1/10	-76.9	-2.26E+04	2.26E+04	-2.22E+04	2.22E+04	-2.21E+05	2.23E+05

Table Q-638. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.416	-697.	697.	-688.	687.	-4.12E+04	4.13E+04
1/20	-4.45	-6.01E+03	6.01E+03	-5.93E+03	5.93E+03	-1.19E+05	1.19E+05
1/15	-10.2	-1.05E+04	1.05E+04	-1.03E+04	1.03E+04	-1.55E+05	1.55E+05
1/10	-76.9	-2.26E+04	2.26E+04	-2.22E+04	2.22E+04	-2.21E+05	2.23E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-639. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-640. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.587	-567.	567.	-546.	544.	-3.27E+04	3.27E+04
1/20	-38.9	-4.96E+03	4.94E+03	-4.77E+03	4.74E+03	-9.47E+04	9.55E+04
1/15	-88.4	-8.16E+03	8.12E+03	-7.96E+03	7.93E+03	-1.18E+05	1.20E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

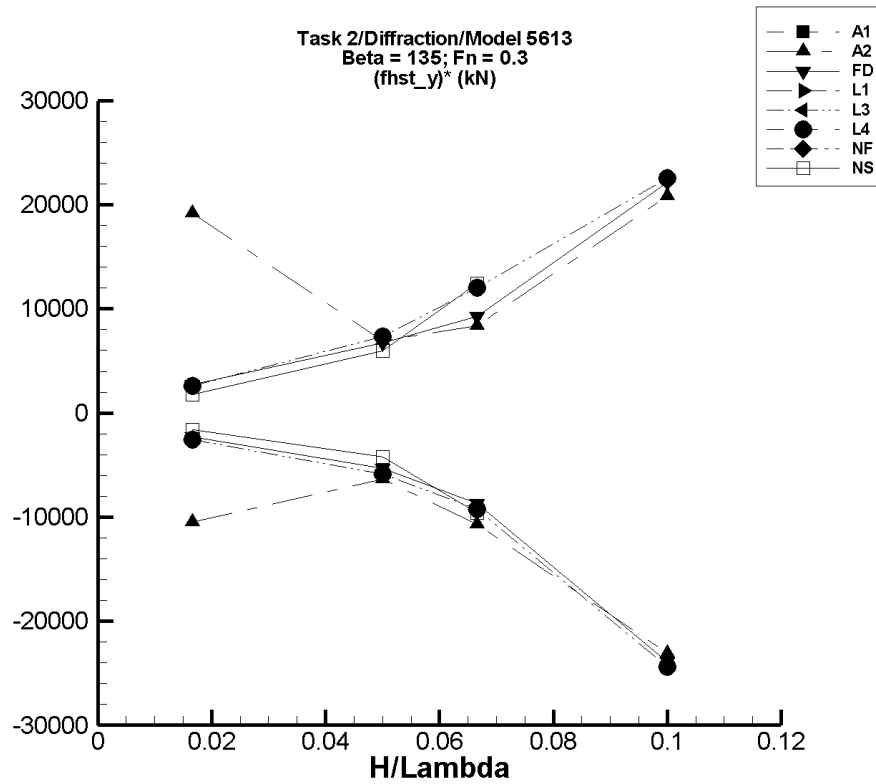


Figure Q-81. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-641. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-642. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-6.09	-268.	456.	-181.	314.	-1.05E+04	1.92E+04
1/20	7.65	-379.	1.75E+03	-310.	353.	-6.35E+03	6.92E+03
1/15	-16.3	-889.	719.	-727.	540.	-1.07E+04	8.35E+03
1/10	-68.6	-2.59E+03	2.34E+03	-2.38E+03	2.02E+03	-2.31E+04	2.08E+04

Table Q-643. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.449	-49.5	52.1	-39.2	44.6	-2.32E+03	2.70E+03
1/20	-8.33	-308.	401.	-276.	327.	-5.35E+03	6.71E+03
1/15	-13.0	-644.	981.	-592.	606.	-8.68E+03	9.29E+03
1/10	-10.9	-2.58E+03	2.36E+03	-2.40E+03	2.20E+03	-2.39E+04	2.21E+04

Table Q-644. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-645. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.217	-44.6	45.4	-43.2	43.8	-2.60E+03	2.61E+03
1/20	-4.55	-303.	415.	-299.	363.	-5.89E+03	7.35E+03
1/15	-11.6	-656.	967.	-628.	789.	-9.25E+03	1.20E+04
1/10	-27.8	-2.53E+03	2.34E+03	-2.46E+03	2.23E+03	-2.44E+04	2.25E+04

Table Q-646. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.217	-44.6	45.4	-43.2	43.8	-2.60E+03	2.61E+03
1/20	-4.55	-303.	415.	-299.	363.	-5.89E+03	7.35E+03
1/15	-11.6	-656.	967.	-628.	789.	-9.25E+03	1.20E+04
1/10	-27.8	-2.53E+03	2.34E+03	-2.46E+03	2.23E+03	-2.44E+04	2.25E+04

Table Q-647. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-648. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.517	-28.3	29.6	-27.1	28.4	-1.60E+03	1.74E+03
1/20	-33.4	-287.	326.	-245.	265.	-4.24E+03	5.96E+03
1/15	-64.3	-779.	795.	-706.	767.	-9.62E+03	1.25E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

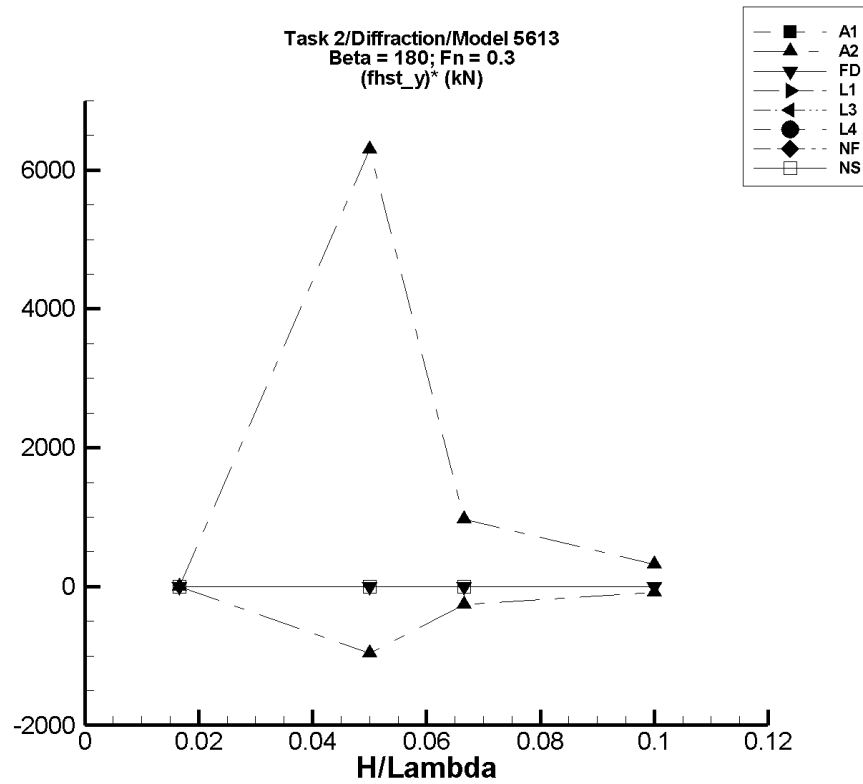


Figure Q-82. Minimum and maximum of filtered  $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-649. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-650. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-8.16E-06	-1.72E-04	1.10E-04	-5.66E-05	1.99E-05	-2.90E-03	1.68E-03
1/20	19.6	-3.46E-04	2.51E+03	-28.7	335.	-966.	6.30E+03
1/15	10.7	-1.40E-03	564.	-6.41	75.2	-257.	968.
1/10	4.62	-9.57	274.	-4.21	36.5	-88.4	318.

Table Q–651. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	1.90E-04	-1.27E-03	1.92E-03	-5.40E-04	6.75E-04	-4.38E-02	2.91E-02
1/20	1.47E-04	-1.23E-02	1.53E-02	-2.46E-03	3.48E-03	-5.22E-02	6.67E-02
1/15	3.80E-04	-1.75E-02	2.22E-02	-1.09E-03	3.20E-03	-2.20E-02	4.23E-02
1/10	-1.48E-03	-3.78E-02	4.43E-02	-1.87E-02	9.69E-03	-0.172	0.112

Table Q–652. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-653. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-654. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	<b>Unfiltered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>F_y^{\text{hst}}</math></b>		<b>Filtered <math>(F_y^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-655. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-656. Minimum and Maximum of Variables  $F_y^{\text{hst}}$  and  $(F_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{hst}} \rangle$	Unfiltered $F_y^{\text{hst}}$		Filtered $F_y^{\text{hst}}$		Filtered $(F_y^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-7.16E-05	-2.00E-03	1.57E-03	-7.39E-04	5.15E-04	-4.00E-02	3.52E-02
1/20	-4.48E-04	-3.08E-03	2.57E-03	-1.51E-03	3.19E-04	-2.13E-02	1.53E-02
1/15	-1.35E-05	-3.87E-03	3.97E-03	-1.14E-03	1.49E-03	-1.69E-02	2.26E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

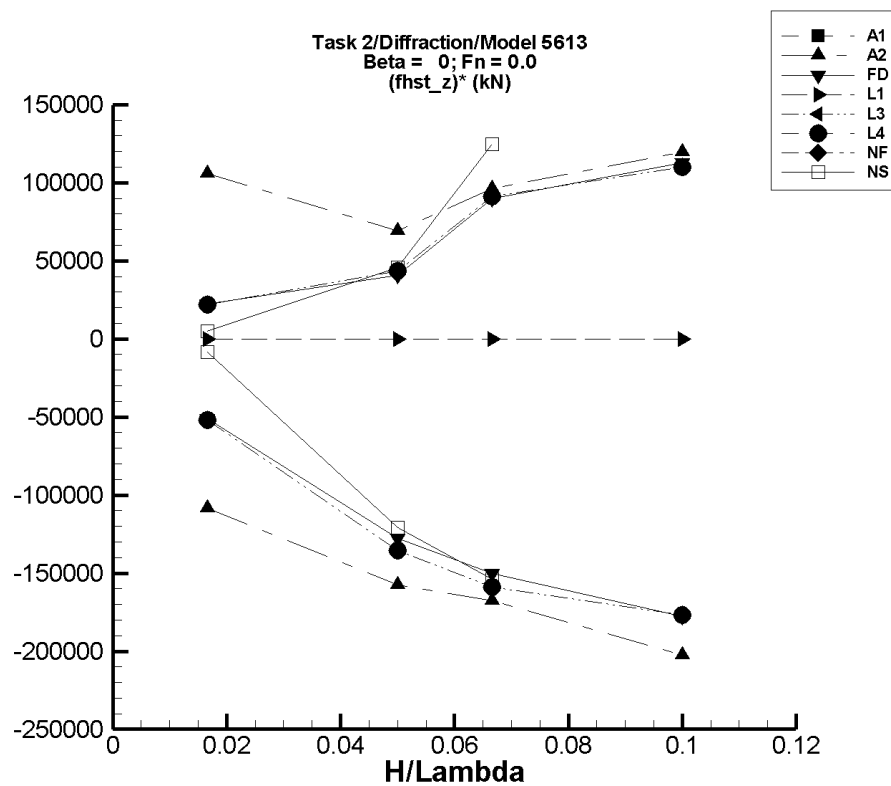


Figure Q-83. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-657. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-658. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.32E+04	8.68E+04	8.32E+04	8.68E+04	-1.08E+05	1.06E+05
1/20	8.13E+04	7.28E+04	8.48E+04	7.34E+04	8.47E+04	-1.58E+05	6.90E+04
1/15	7.62E+04	6.42E+04	8.28E+04	6.50E+04	8.26E+04	-1.68E+05	9.62E+04
1/10	6.55E+04	3.46E+04	7.80E+04	4.52E+04	7.75E+04	-2.02E+05	1.20E+05

Table Q-659. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.52E+04	8.40E+04	8.52E+04	-5.12E+04	2.22E+04
1/20	8.15E+04	7.47E+04	8.35E+04	7.51E+04	8.35E+04	-1.28E+05	4.08E+04
1/15	7.62E+04	6.55E+04	8.24E+04	6.62E+04	8.22E+04	-1.50E+05	8.97E+04
1/10	6.83E+04	5.01E+04	8.22E+04	5.05E+04	7.95E+04	-1.78E+05	1.13E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-660. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-661. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.21E+04	2.20E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.51E+04	8.40E+04	-1.35E+05	4.35E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.59E+04	8.26E+04	-1.59E+05	9.13E+04
1/10	6.84E+04	5.02E+04	8.14E+04	5.07E+04	7.94E+04	-1.77E+05	1.10E+05

Table Q-662. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.21E+04	2.20E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.51E+04	8.40E+04	-1.35E+05	4.35E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.59E+04	8.26E+04	-1.59E+05	9.13E+04
1/10	6.84E+04	5.02E+04	8.14E+04	5.07E+04	7.94E+04	-1.77E+05	1.10E+05

Table Q-663. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-664. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.48E+04	8.45E+04	8.48E+04	-8.39E+03	4.99E+03
1/20	8.14E+04	7.51E+04	8.39E+04	7.54E+04	8.37E+04	-1.21E+05	4.57E+04
1/15	7.46E+04	6.33E+04	8.31E+04	6.44E+04	8.30E+04	-1.54E+05	1.25E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

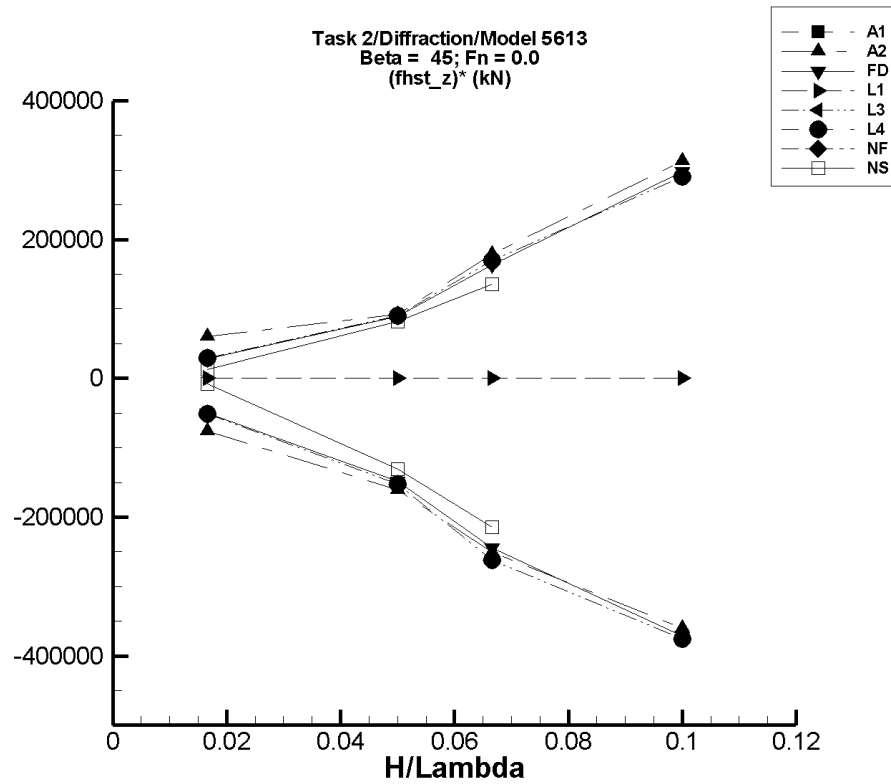


Figure Q-84. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-665. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-666. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.37E+04	8.60E+04	8.37E+04	8.60E+04	-7.64E+04	6.06E+04
1/20	8.13E+04	7.29E+04	8.64E+04	7.32E+04	8.59E+04	-1.61E+05	9.24E+04
1/15	7.62E+04	5.71E+04	8.82E+04	5.95E+04	8.81E+04	-2.51E+05	1.78E+05
1/10	6.71E+04	2.64E+04	1.00E+05	3.11E+04	9.84E+04	-3.60E+05	3.13E+05

Table Q-667. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.54E+04	8.40E+04	8.53E+04	-5.06E+04	2.86E+04
1/20	8.16E+04	7.38E+04	8.61E+04	7.42E+04	8.61E+04	-1.48E+05	8.95E+04
1/15	7.63E+04	5.75E+04	8.73E+04	6.00E+04	8.71E+04	-2.44E+05	1.63E+05
1/10	6.86E+04	3.07E+04	9.88E+04	3.14E+04	9.83E+04	-3.72E+05	2.97E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-668. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-5.62	-5.62
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.88	-1.88
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.41	-1.41
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.938	-0.938

Table Q-669. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.17E+04	2.87E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.43E+04	8.64E+04	-1.53E+05	9.02E+04
1/15	7.65E+04	5.76E+04	8.78E+04	5.90E+04	8.77E+04	-2.62E+05	1.69E+05
1/10	6.87E+04	3.04E+04	9.95E+04	3.11E+04	9.78E+04	-3.76E+05	2.91E+05

Table Q-670. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.17E+04	2.87E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.43E+04	8.64E+04	-1.53E+05	9.02E+04
1/15	7.65E+04	5.76E+04	8.78E+04	5.90E+04	8.77E+04	-2.62E+05	1.69E+05
1/10	6.87E+04	3.04E+04	9.95E+04	3.11E+04	9.78E+04	-3.76E+05	2.91E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-671. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-672. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.49E+04	8.45E+04	8.49E+04	-7.60E+03	1.26E+04
1/20	8.18E+04	7.48E+04	8.58E+04	7.52E+04	8.59E+04	-1.31E+05	8.19E+04
1/15	7.58E+04	6.03E+04	8.49E+04	6.15E+04	8.48E+04	-2.14E+05	1.35E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

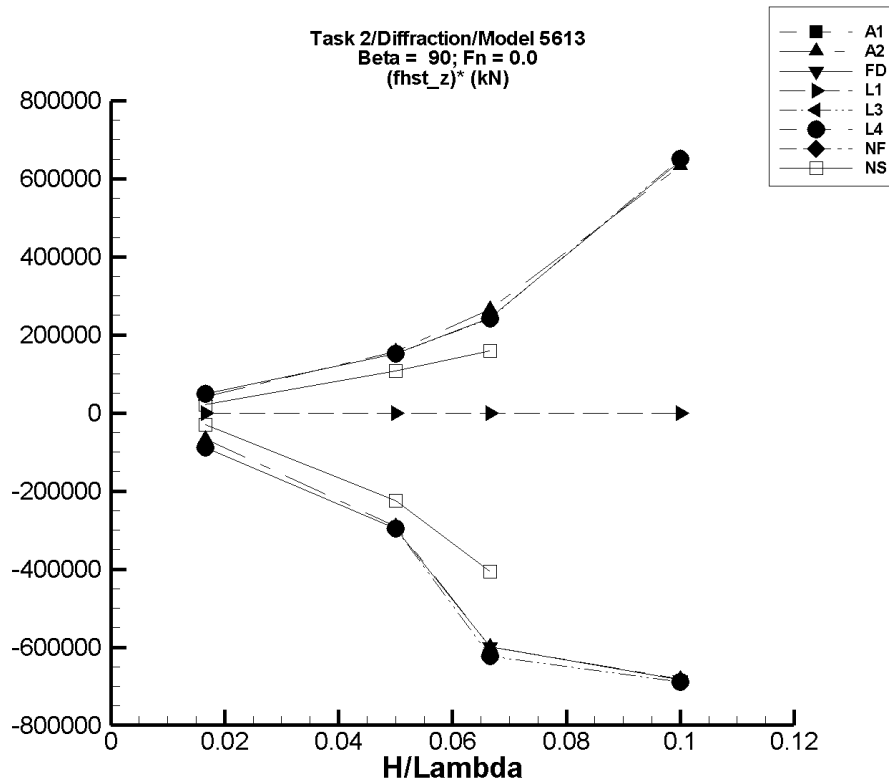


Figure Q-85. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-673. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-674. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.39E+04	8.57E+04	8.39E+04	8.57E+04	-6.68E+04	4.09E+04
1/20	8.12E+04	6.58E+04	8.92E+04	6.67E+04	8.91E+04	-2.91E+05	1.57E+05
1/15	7.58E+04	3.26E+04	9.39E+04	3.59E+04	9.35E+04	-5.99E+05	2.66E+05
1/10	6.71E+04	-660.	1.32E+05	-1.04E+03	1.30E+05	-6.81E+05	6.33E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-675. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.34E+04	8.57E+04	8.34E+04	8.57E+04	-8.81E+04	4.88E+04
1/20	8.14E+04	6.63E+04	8.90E+04	6.66E+04	8.90E+04	-2.96E+05	1.52E+05
1/15	7.56E+04	3.33E+04	9.20E+04	3.57E+04	9.18E+04	-5.99E+05	2.43E+05
1/10	6.79E+04	—	1.34E+05	-437.	1.32E+05	-6.83E+05	6.45E+05

Table Q-676. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-677. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.36E+04	8.60E+04	8.36E+04	8.60E+04	-8.94E+04	4.98E+04
1/20	8.19E+04	6.70E+04	8.95E+04	6.71E+04	8.95E+04	-2.96E+05	1.52E+05
1/15	7.65E+04	3.37E+04	9.26E+04	3.50E+04	9.26E+04	-6.22E+05	2.41E+05
1/10	6.88E+04	—	1.33E+05	-90.2	1.34E+05	-6.89E+05	6.51E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-678. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.36E+04	8.60E+04	8.36E+04	8.60E+04	-8.94E+04	4.98E+04
1/20	8.19E+04	6.70E+04	8.95E+04	6.71E+04	8.95E+04	-2.96E+05	1.52E+05
1/15	7.65E+04	3.37E+04	9.26E+04	3.50E+04	9.26E+04	-6.22E+05	2.41E+05
1/10	6.88E+04	—	1.33E+05	-90.2	1.34E+05	-6.89E+05	6.51E+05

Table Q-679. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-680. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.47E+04	8.42E+04	8.50E+04	8.42E+04	8.50E+04	-3.09E+04	2.10E+04
1/20	8.20E+04	7.00E+04	8.74E+04	7.08E+04	8.74E+04	-2.25E+05	1.07E+05
1/15	7.67E+04	4.86E+04	8.73E+04	4.96E+04	8.73E+04	-4.06E+05	1.59E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

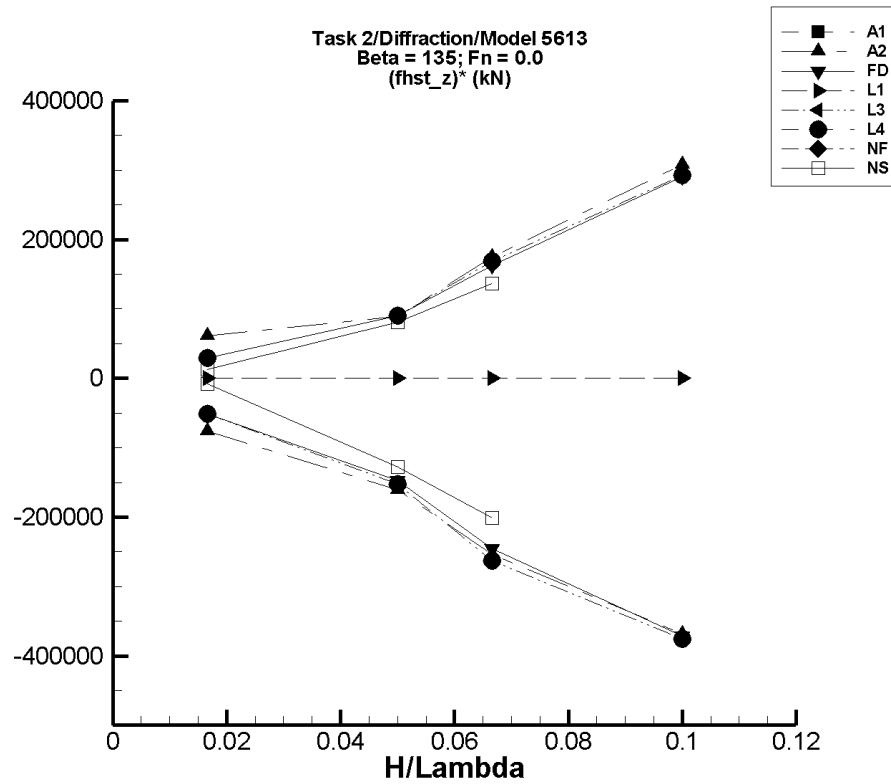


Figure Q-86. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-681. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-682. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.37E+04	8.60E+04	8.37E+04	8.60E+04	-7.58E+04	6.15E+04
1/20	8.13E+04	7.29E+04	8.60E+04	7.33E+04	8.58E+04	-1.61E+05	8.94E+04
1/15	7.62E+04	5.69E+04	8.81E+04	5.93E+04	8.79E+04	-2.54E+05	1.75E+05
1/10	6.76E+04	2.54E+04	1.00E+05	3.07E+04	9.84E+04	-3.69E+05	3.08E+05

Table Q-683. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.54E+04	8.40E+04	8.53E+04	-5.14E+04	2.89E+04
1/20	8.16E+04	7.38E+04	8.61E+04	7.42E+04	8.61E+04	-1.47E+05	9.00E+04
1/15	7.63E+04	5.75E+04	8.73E+04	6.00E+04	8.72E+04	-2.45E+05	1.62E+05
1/10	6.84E+04	3.06E+04	9.86E+04	3.12E+04	9.74E+04	-3.71E+05	2.90E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-684. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-685. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.87E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.43E+04	8.64E+04	-1.53E+05	9.03E+04
1/15	7.65E+04	5.76E+04	8.78E+04	5.89E+04	8.77E+04	-2.63E+05	1.68E+05
1/10	6.87E+04	3.04E+04	9.92E+04	3.11E+04	9.79E+04	-3.76E+05	2.92E+05

Table Q-686. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.87E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.43E+04	8.64E+04	-1.53E+05	9.03E+04
1/15	7.65E+04	5.76E+04	8.78E+04	5.89E+04	8.77E+04	-2.63E+05	1.68E+05
1/10	6.87E+04	3.04E+04	9.92E+04	3.11E+04	9.79E+04	-3.76E+05	2.92E+05

Table Q-687. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-688. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.49E+04	8.46E+04	8.49E+04	-7.61E+03	1.25E+04
1/20	8.18E+04	7.50E+04	8.59E+04	7.54E+04	8.58E+04	-1.27E+05	8.08E+04
1/15	7.58E+04	6.09E+04	8.49E+04	6.24E+04	8.49E+04	-2.01E+05	1.36E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

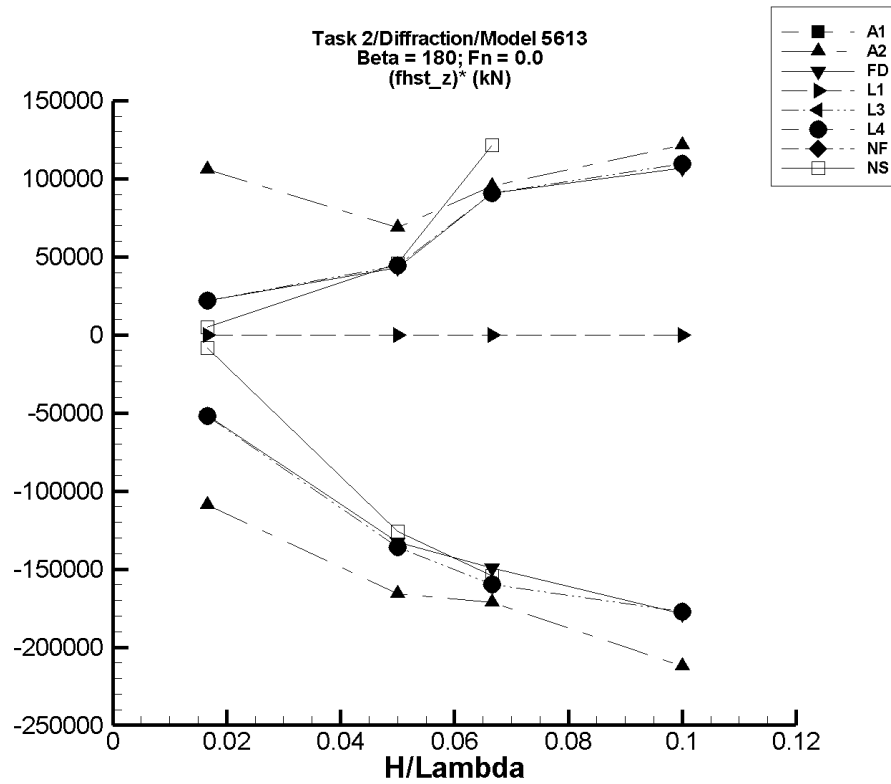


Figure Q-87. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-689. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-690. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.32E+04	8.68E+04	8.32E+04	8.68E+04	-1.09E+05	1.06E+05
1/20	8.13E+04	7.28E+04	8.48E+04	7.30E+04	8.47E+04	-1.66E+05	6.88E+04
1/15	7.62E+04	6.42E+04	8.28E+04	6.48E+04	8.26E+04	-1.71E+05	9.55E+04
1/10	6.53E+04	3.33E+04	7.80E+04	4.41E+04	7.75E+04	-2.12E+05	1.21E+05

Table Q-691. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.52E+04	8.40E+04	8.52E+04	-5.16E+04	2.18E+04
1/20	8.14E+04	7.46E+04	8.35E+04	7.48E+04	8.36E+04	-1.33E+05	4.31E+04
1/15	7.62E+04	6.56E+04	8.24E+04	6.62E+04	8.22E+04	-1.49E+05	9.06E+04
1/10	6.84E+04	5.02E+04	8.15E+04	5.05E+04	7.91E+04	-1.79E+05	1.07E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-692. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-693. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.22E+04	2.20E+04
1/20	8.18E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.36E+05	4.42E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.59E+04	8.26E+04	-1.60E+05	9.07E+04
1/10	6.85E+04	5.02E+04	8.14E+04	5.07E+04	7.94E+04	-1.77E+05	1.09E+05

Table Q-694. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.22E+04	2.20E+04
1/20	8.18E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.36E+05	4.42E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.59E+04	8.26E+04	-1.60E+05	9.07E+04
1/10	6.85E+04	5.02E+04	8.14E+04	5.07E+04	7.94E+04	-1.77E+05	1.09E+05

Table Q-695. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-696. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.48E+04	8.45E+04	8.48E+04	-8.36E+03	5.05E+03
1/20	8.14E+04	7.51E+04	8.39E+04	7.51E+04	8.37E+04	-1.26E+05	4.56E+04
1/15	7.47E+04	6.33E+04	8.31E+04	6.44E+04	8.28E+04	-1.54E+05	1.22E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

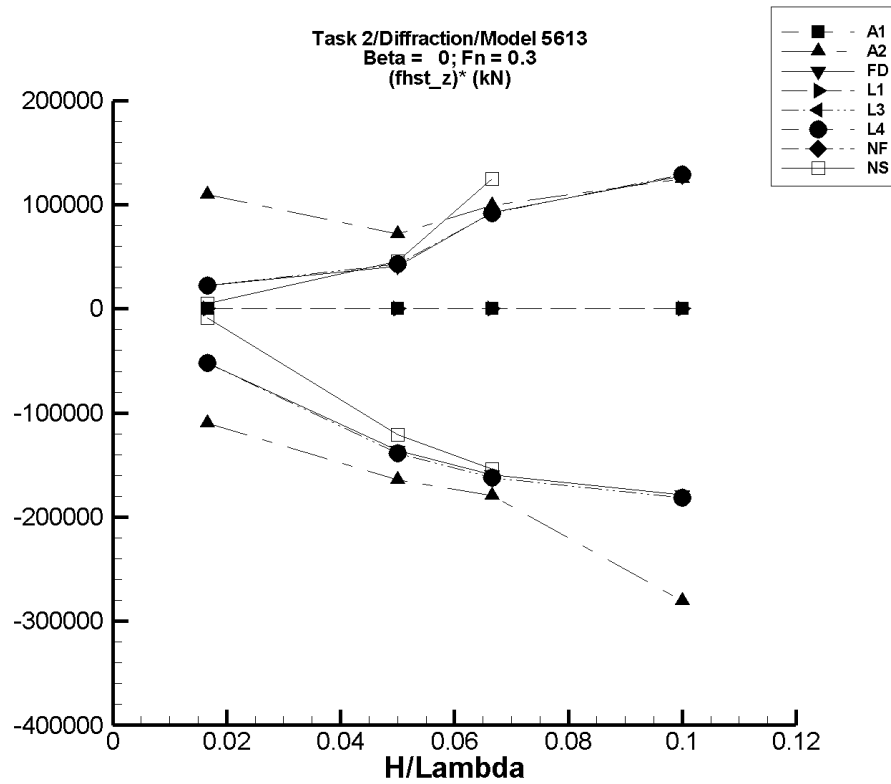


Figure Q-88. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-697. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	-28.1	-28.1
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	-9.38	-9.38
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	-7.03	-7.03
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	-4.69	-4.69

Table Q-698. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.32E+04	8.68E+04	8.32E+04	8.68E+04	-1.10E+05	1.10E+05
1/20	8.12E+04	7.28E+04	8.48E+04	7.30E+04	8.48E+04	-1.64E+05	7.15E+04
1/15	7.62E+04	6.42E+04	8.29E+04	6.42E+04	8.28E+04	-1.79E+05	9.95E+04
1/10	6.55E+04	3.39E+04	7.81E+04	3.74E+04	7.80E+04	-2.81E+05	1.25E+05

Table Q-699. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.52E+04	8.40E+04	8.52E+04	-5.24E+04	2.22E+04
1/20	8.15E+04	7.46E+04	8.35E+04	7.47E+04	8.35E+04	-1.36E+05	4.10E+04
1/15	7.62E+04	6.55E+04	8.24E+04	6.56E+04	8.24E+04	-1.59E+05	9.26E+04
1/10	6.83E+04	5.01E+04	8.21E+04	5.04E+04	8.11E+04	-1.79E+05	1.28E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-700. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	78.3	78.3
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	26.1	26.1
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	19.6	19.6
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	13.0	13.0

Table Q-701. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.23E+04	2.23E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.39E+05	4.29E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.58E+04	8.27E+04	-1.62E+05	9.15E+04
1/10	6.84E+04	5.00E+04	8.14E+04	5.03E+04	8.13E+04	-1.81E+05	1.29E+05

Table Q-702. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.23E+04	2.23E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.39E+05	4.29E+04
1/15	7.66E+04	6.58E+04	8.27E+04	6.58E+04	8.27E+04	-1.62E+05	9.15E+04
1/10	6.84E+04	5.00E+04	8.14E+04	5.03E+04	8.13E+04	-1.81E+05	1.29E+05

Table Q-703. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-704. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.48E+04	8.45E+04	8.48E+04	-8.40E+03	5.00E+03
1/20	8.14E+04	7.51E+04	8.39E+04	7.54E+04	8.37E+04	-1.21E+05	4.58E+04
1/15	7.46E+04	6.33E+04	8.31E+04	6.44E+04	8.30E+04	-1.54E+05	1.25E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

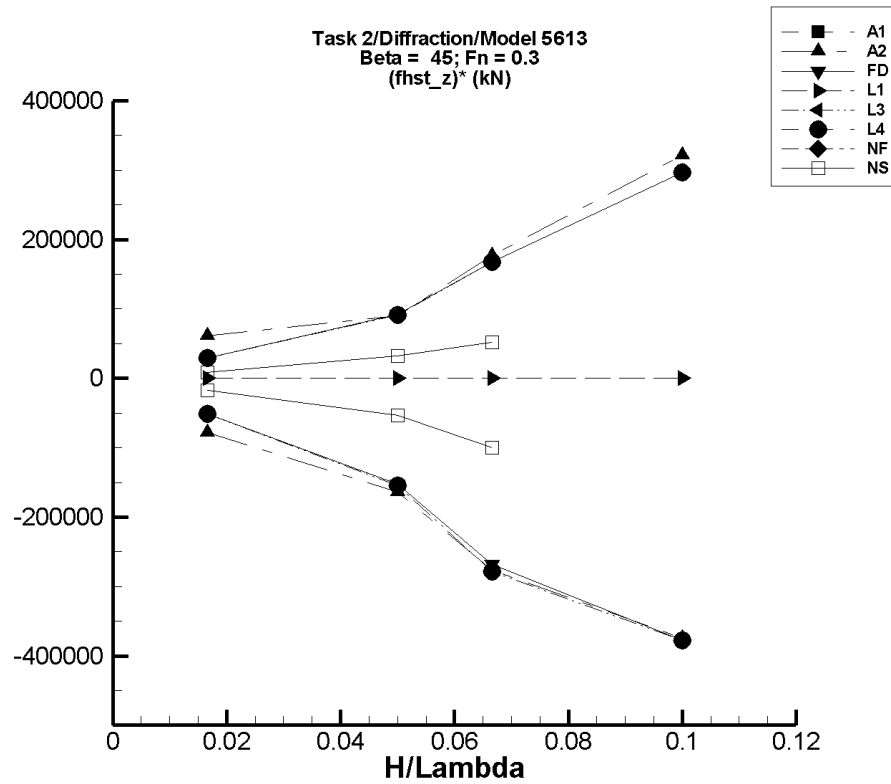


Figure Q-89. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-705. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-706. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.37E+04	8.60E+04	8.37E+04	8.60E+04	-7.79E+04	6.12E+04
1/20	8.13E+04	7.29E+04	8.60E+04	7.31E+04	8.58E+04	-1.64E+05	8.96E+04
1/15	7.63E+04	5.69E+04	8.82E+04	5.78E+04	8.80E+04	-2.76E+05	1.77E+05
1/10	6.74E+04	2.59E+04	1.00E+05	2.99E+04	9.95E+04	-3.75E+05	3.21E+05

Table Q-707. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.54E+04	8.40E+04	8.53E+04	-5.17E+04	2.89E+04
1/20	8.15E+04	7.38E+04	8.61E+04	7.39E+04	8.61E+04	-1.52E+05	9.22E+04
1/15	7.61E+04	5.75E+04	8.73E+04	5.83E+04	8.73E+04	-2.68E+05	1.67E+05
1/10	6.86E+04	3.07E+04	9.88E+04	3.08E+04	9.83E+04	-3.77E+05	2.97E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-708. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	10.3	10.3
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	3.44	3.44
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	2.58	2.58
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	1.72	1.72

Table Q-709. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.91E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.42E+04	8.64E+04	-1.55E+05	9.08E+04
1/15	7.66E+04	5.76E+04	8.78E+04	5.80E+04	8.78E+04	-2.79E+05	1.68E+05
1/10	6.86E+04	3.04E+04	9.93E+04	3.09E+04	9.83E+04	-3.77E+05	2.97E+05

Table Q-710. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.91E+04
1/20	8.19E+04	7.41E+04	8.65E+04	7.42E+04	8.64E+04	-1.55E+05	9.08E+04
1/15	7.66E+04	5.76E+04	8.78E+04	5.80E+04	8.78E+04	-2.79E+05	1.68E+05
1/10	6.86E+04	3.04E+04	9.93E+04	3.09E+04	9.83E+04	-3.77E+05	2.97E+05

Table Q-711. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-712. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.53E+04	8.58E+04	8.54E+04	8.58E+04	-1.76E+04	8.27E+03
1/20	8.36E+04	8.05E+04	8.52E+04	8.10E+04	8.52E+04	-5.31E+04	3.21E+04
1/15	8.21E+04	7.52E+04	8.55E+04	7.55E+04	8.56E+04	-9.95E+04	5.17E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

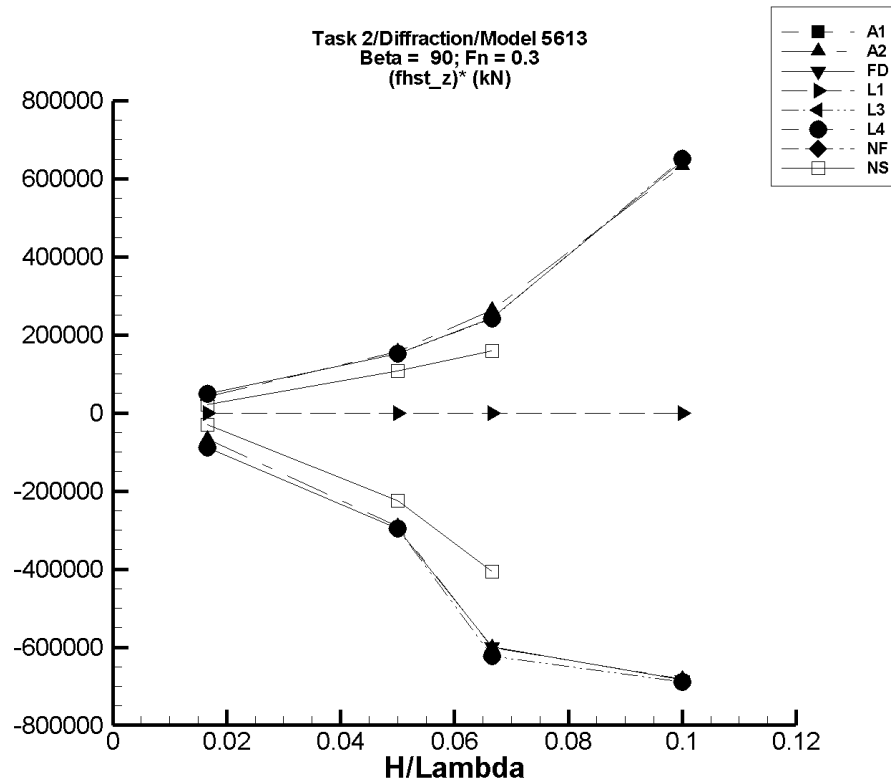


Figure Q-90. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-713. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-714. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.39E+04	8.57E+04	8.39E+04	8.57E+04	-6.68E+04	4.09E+04
1/20	8.12E+04	6.58E+04	8.92E+04	6.67E+04	8.91E+04	-2.91E+05	1.57E+05
1/15	7.59E+04	3.26E+04	9.39E+04	3.58E+04	9.35E+04	-6.01E+05	2.64E+05
1/10	6.71E+04	-660.	1.32E+05	-1.04E+03	1.30E+05	-6.81E+05	6.33E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-715. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.49E+04	8.34E+04	8.57E+04	8.34E+04	8.57E+04	-8.81E+04	4.88E+04
1/20	8.14E+04	6.63E+04	8.90E+04	6.66E+04	8.90E+04	-2.96E+05	1.52E+05
1/15	7.56E+04	3.33E+04	9.20E+04	3.57E+04	9.18E+04	-5.99E+05	2.43E+05
1/10	6.79E+04	—	1.34E+05	-437.	1.32E+05	-6.83E+05	6.45E+05

Table Q-716. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-717. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	8.51E+04	8.36E+04	8.60E+04	8.36E+04	8.60E+04	-8.94E+04	4.98E+04
1/20	8.19E+04	6.70E+04	8.95E+04	6.71E+04	8.95E+04	-2.96E+05	1.52E+05
1/15	7.65E+04	3.37E+04	9.26E+04	3.50E+04	9.26E+04	-6.22E+05	2.41E+05
1/10	6.88E+04	—	1.33E+05	-90.3	1.34E+05	-6.89E+05	6.51E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-718. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.36E+04	8.60E+04	8.36E+04	8.60E+04	-8.94E+04	4.98E+04
1/20	8.19E+04	6.70E+04	8.95E+04	6.71E+04	8.95E+04	-2.96E+05	1.52E+05
1/15	7.65E+04	3.37E+04	9.26E+04	3.50E+04	9.26E+04	-6.22E+05	2.41E+05
1/10	6.88E+04	—	1.33E+05	-90.3	1.34E+05	-6.89E+05	6.51E+05

Table Q-719. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-720. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.42E+04	8.50E+04	8.42E+04	8.50E+04	-3.09E+04	2.10E+04
1/20	8.20E+04	7.00E+04	8.74E+04	7.08E+04	8.74E+04	-2.25E+05	1.07E+05
1/15	7.67E+04	4.86E+04	8.73E+04	4.96E+04	8.73E+04	-4.06E+05	1.59E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

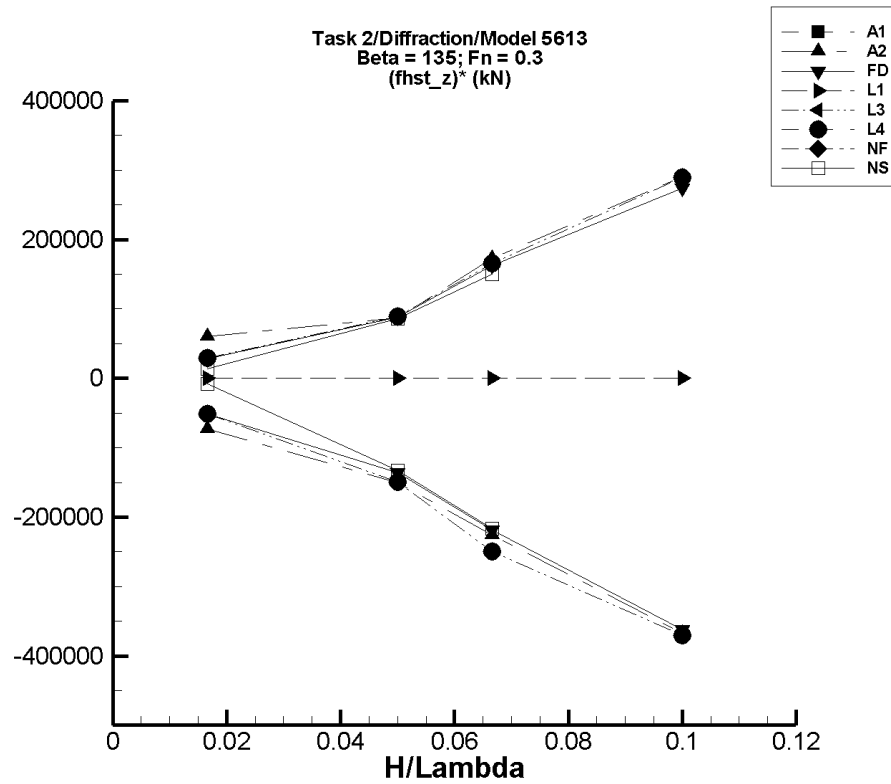


Figure Q-91. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-721. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-722. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.37E+04	8.60E+04	8.38E+04	8.60E+04	-7.35E+04	6.05E+04
1/20	8.13E+04	7.30E+04	8.59E+04	7.38E+04	8.57E+04	-1.51E+05	8.73E+04
1/15	7.62E+04	5.70E+04	8.81E+04	6.12E+04	8.77E+04	-2.26E+05	1.72E+05
1/10	6.77E+04	2.70E+04	9.98E+04	3.10E+04	9.67E+04	-3.67E+05	2.90E+05

Table Q-723. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.54E+04	8.40E+04	8.53E+04	-5.16E+04	2.77E+04
1/20	8.16E+04	7.38E+04	8.61E+04	7.48E+04	8.60E+04	-1.36E+05	8.81E+04
1/15	7.62E+04	5.75E+04	8.73E+04	6.16E+04	8.70E+04	-2.19E+05	1.62E+05
1/10	6.84E+04	3.07E+04	9.86E+04	3.22E+04	9.58E+04	-3.62E+05	2.74E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-724. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-725. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.87E+04
1/20	8.19E+04	7.42E+04	8.65E+04	7.44E+04	8.64E+04	-1.50E+05	8.92E+04
1/15	7.66E+04	5.78E+04	8.78E+04	6.00E+04	8.76E+04	-2.50E+05	1.66E+05
1/10	6.84E+04	3.03E+04	9.92E+04	3.14E+04	9.73E+04	-3.70E+05	2.89E+05

Table Q-726. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	<b>Unfiltered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>F_z^{\text{hst}}</math></b>		<b>Filtered <math>(F_z^{\text{hst}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	8.51E+04	8.43E+04	8.56E+04	8.43E+04	8.56E+04	-5.18E+04	2.87E+04
1/20	8.19E+04	7.42E+04	8.65E+04	7.44E+04	8.64E+04	-1.50E+05	8.92E+04
1/15	7.66E+04	5.78E+04	8.78E+04	6.00E+04	8.76E+04	-2.50E+05	1.66E+05
1/10	6.84E+04	3.03E+04	9.92E+04	3.14E+04	9.73E+04	-3.70E+05	2.89E+05

Table Q-727. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-728. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.49E+04	8.45E+04	8.49E+04	-8.52E+03	1.34E+04
1/20	8.16E+04	7.45E+04	8.59E+04	7.50E+04	8.59E+04	-1.33E+05	8.61E+04
1/15	7.51E+04	5.90E+04	8.50E+04	6.06E+04	8.50E+04	-2.17E+05	1.49E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

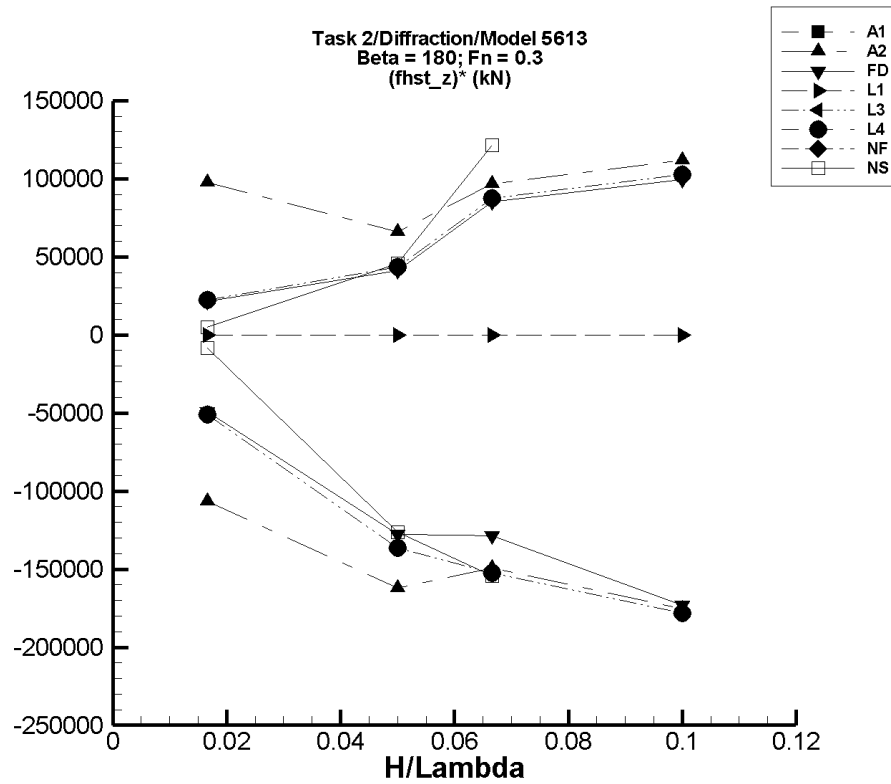


Figure Q-92. Minimum and maximum of filtered  $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-729. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/20	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/15	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—
1/10	8.59E+04	8.59E+04	8.59E+04	8.59E+04	8.59E+04	—	—

Table Q-730. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.50E+04	8.32E+04	8.68E+04	8.32E+04	8.66E+04	-1.07E+05	9.76E+04
1/20	8.12E+04	7.30E+04	8.48E+04	7.31E+04	8.45E+04	-1.62E+05	6.58E+04
1/15	7.62E+04	6.42E+04	8.28E+04	6.62E+04	8.26E+04	-1.49E+05	9.67E+04
1/10	6.57E+04	3.61E+04	7.79E+04	4.81E+04	7.68E+04	-1.75E+05	1.12E+05

Table Q-731. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.49E+04	8.40E+04	8.52E+04	8.41E+04	8.52E+04	-4.91E+04	2.12E+04
1/20	8.14E+04	7.47E+04	8.35E+04	7.50E+04	8.35E+04	-1.28E+05	4.12E+04
1/15	7.62E+04	6.56E+04	8.24E+04	6.76E+04	8.18E+04	-1.29E+05	8.50E+04
1/10	6.84E+04	5.03E+04	8.12E+04	5.11E+04	7.83E+04	-1.73E+05	9.95E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-732. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-4.69	-4.69
1/20	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.56	-1.56
1/15	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-1.17	-1.17
1/10	8.56E+04	8.56E+04	8.56E+04	8.56E+04	8.56E+04	-0.781	-0.781

Table Q-733. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.10E+04	2.22E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.36E+05	4.33E+04
1/15	7.67E+04	6.58E+04	8.27E+04	6.65E+04	8.25E+04	-1.53E+05	8.74E+04
1/10	6.86E+04	5.01E+04	8.14E+04	5.07E+04	7.88E+04	-1.78E+05	1.03E+05

Table Q-734. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.51E+04	8.43E+04	8.55E+04	8.43E+04	8.55E+04	-5.10E+04	2.22E+04
1/20	8.19E+04	7.49E+04	8.40E+04	7.50E+04	8.40E+04	-1.36E+05	4.33E+04
1/15	7.67E+04	6.58E+04	8.27E+04	6.65E+04	8.25E+04	-1.53E+05	8.74E+04
1/10	6.86E+04	5.01E+04	8.14E+04	5.07E+04	7.88E+04	-1.78E+05	1.03E+05

Table Q-735. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-736. Minimum and Maximum of Variables  $F_z^{\text{hst}}$  and  $(F_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{hst}} \rangle$	Unfiltered $F_z^{\text{hst}}$		Filtered $F_z^{\text{hst}}$		Filtered $(F_z^{\text{hst}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.47E+04	8.45E+04	8.48E+04	8.45E+04	8.48E+04	-8.36E+03	5.06E+03
1/20	8.14E+04	7.51E+04	8.39E+04	7.51E+04	8.37E+04	-1.26E+05	4.56E+04
1/15	7.47E+04	6.33E+04	8.31E+04	6.44E+04	8.28E+04	-1.54E+05	1.22E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

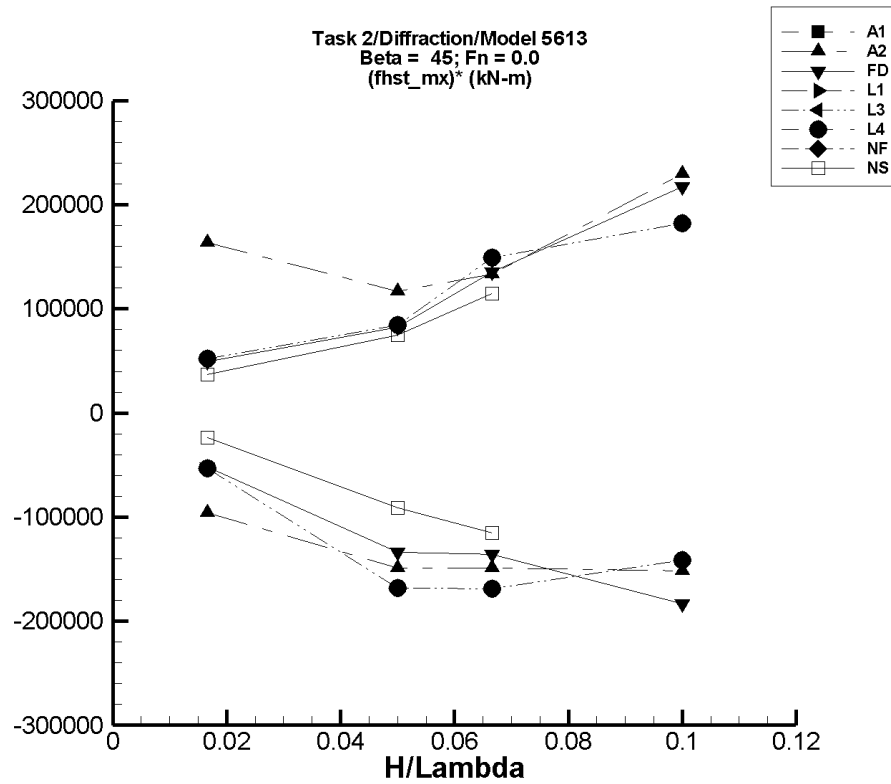


Figure Q-93. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-737. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-738. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	30.2	-1.64E+03	2.87E+03	-1.57E+03	2.76E+03	-9.60E+04	1.64E+05
1/20	-46.7	-1.61E+04	1.52E+04	-7.49E+03	5.81E+03	-1.49E+05	1.17E+05
1/15	-155.	-1.48E+04	1.40E+04	-1.01E+04	8.74E+03	-1.49E+05	1.33E+05
1/10	653.	-2.15E+04	2.97E+04	-1.45E+04	2.37E+04	-1.52E+05	2.30E+05

Table Q-739. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	15.4	-1.07E+03	860.	-848.	838.	-5.18E+04	4.94E+04
1/20	-6.36	-9.46E+03	4.37E+03	-6.71E+03	4.10E+03	-1.34E+05	8.22E+04
1/15	-157.	-1.23E+04	1.01E+04	-9.21E+03	8.86E+03	-1.36E+05	1.35E+05
1/10	387.	-2.11E+04	2.51E+04	-1.79E+04	2.21E+04	-1.83E+05	2.18E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-740. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-741. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.17	-963.	870.	-884.	864.	-5.30E+04	5.19E+04
1/20	-117.	-1.00E+04	4.27E+03	-8.52E+03	4.12E+03	-1.68E+05	8.47E+04
1/15	49.2	-1.27E+04	1.03E+04	-1.12E+04	9.99E+03	-1.69E+05	1.49E+05
1/10	359.	-1.50E+04	1.97E+04	-1.38E+04	1.86E+04	-1.41E+05	1.82E+05

Table Q-742. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.17	-963.	870.	-884.	864.	-5.30E+04	5.19E+04
1/20	-117.	-1.00E+04	4.27E+03	-8.52E+03	4.12E+03	-1.68E+05	8.47E+04
1/15	49.2	-1.27E+04	1.03E+04	-1.12E+04	9.99E+03	-1.69E+05	1.49E+05
1/10	359.	-1.50E+04	1.97E+04	-1.38E+04	1.86E+04	-1.41E+05	1.82E+05

Table Q-743. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-744. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.69	-397.	644.	-388.	622.	-2.36E+04	3.70E+04
1/20	274.	-5.87E+03	5.36E+03	-4.30E+03	4.01E+03	-9.14E+04	7.47E+04
1/15	511.	-9.79E+03	8.24E+03	-7.15E+03	8.15E+03	-1.15E+05	1.15E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

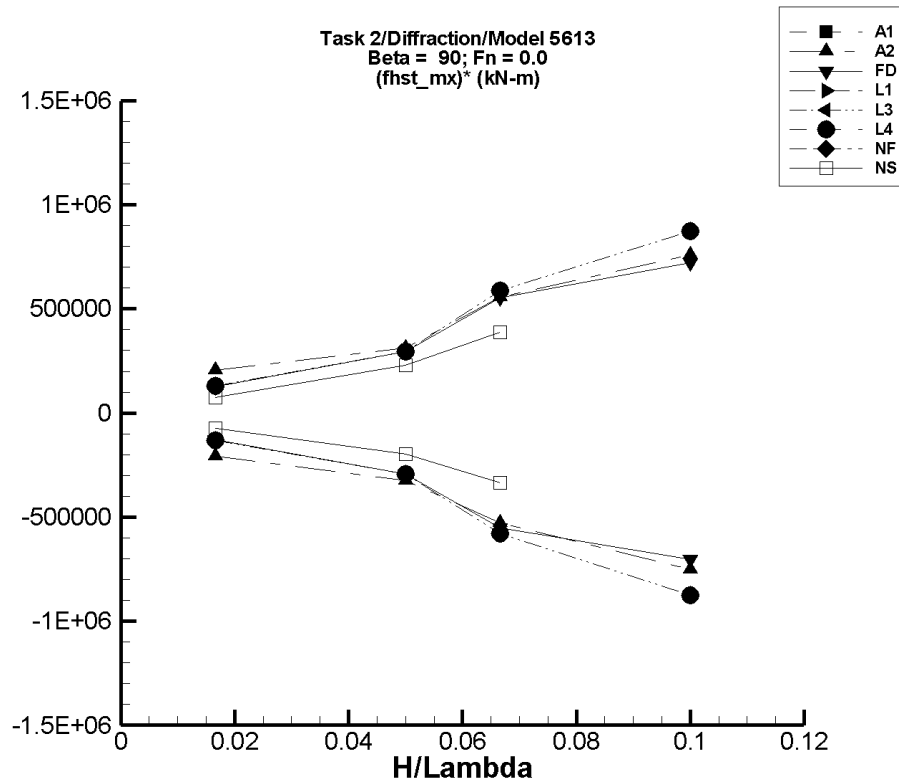


Figure Q-94. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-745. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-746. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	28.6	-3.97E+03	3.94E+03	-3.41E+03	3.42E+03	-2.06E+05	2.04E+05
1/20	-139.	-2.74E+04	2.63E+04	-1.63E+04	1.55E+04	-3.24E+05	3.13E+05
1/15	349.	-4.04E+04	4.05E+04	-3.48E+04	3.75E+04	-5.27E+05	5.57E+05
1/10	-156.	-9.96E+04	1.01E+05	-7.52E+04	7.57E+04	-7.51E+05	7.58E+05

Table Q-747. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	23.0	-2.23E+03	2.23E+03	-2.13E+03	2.13E+03	-1.29E+05	1.26E+05
1/20	12.7	-1.53E+04	1.53E+04	-1.47E+04	1.47E+04	-2.95E+05	2.94E+05
1/15	66.6	-3.96E+04	3.96E+04	-3.68E+04	3.70E+04	-5.53E+05	5.54E+05
1/10	-770.	-9.20E+04	9.37E+04	-7.11E+04	7.14E+04	-7.03E+05	7.21E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-748. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-749. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.55	-2.21E+03	2.21E+03	-2.18E+03	2.18E+03	-1.31E+05	1.30E+05
1/20	-80.2	-1.50E+04	1.50E+04	-1.47E+04	1.47E+04	-2.93E+05	2.96E+05
1/15	-289.	-3.99E+04	3.99E+04	-3.89E+04	3.89E+04	-5.79E+05	5.87E+05
1/10	226.	-9.49E+04	9.49E+04	-8.73E+04	8.75E+04	-8.76E+05	8.73E+05

Table Q-750. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.55	-2.21E+03	2.21E+03	-2.18E+03	2.18E+03	-1.31E+05	1.30E+05
1/20	-80.2	-1.50E+04	1.50E+04	-1.47E+04	1.47E+04	-2.93E+05	2.96E+05
1/15	-289.	-3.99E+04	3.99E+04	-3.89E+04	3.89E+04	-5.79E+05	5.87E+05
1/10	226.	-9.49E+04	9.49E+04	-8.73E+04	8.75E+04	-8.76E+05	8.73E+05

Table Q-751. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-752. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.86	-1.27E+03	1.28E+03	-1.24E+03	1.25E+03	-7.39E+04	7.52E+04
1/20	333.	-1.05E+04	1.23E+04	-9.47E+03	1.18E+04	-1.96E+05	2.29E+05
1/15	579.	-2.35E+04	2.78E+04	-2.18E+04	2.65E+04	-3.36E+05	3.89E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

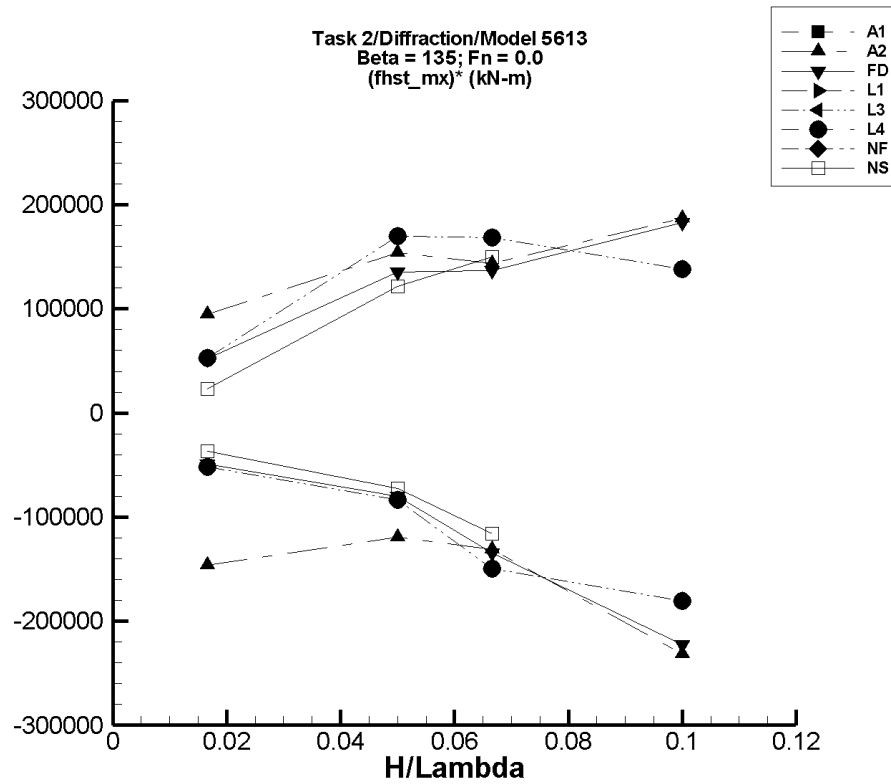


Figure Q-95. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-753. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-754. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.90	-2.86E+03	1.65E+03	-2.44E+03	1.57E+03	-1.46E+05	9.46E+04
1/20	224.	-6.31E+03	1.43E+04	-5.74E+03	7.92E+03	-1.19E+05	1.54E+05
1/15	395.	-1.07E+04	1.77E+04	-8.34E+03	9.98E+03	-1.31E+05	1.44E+05
1/10	-349.	-2.59E+04	2.02E+04	-2.35E+04	1.84E+04	-2.32E+05	1.87E+05

Table Q-755. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-15.8	-862.	1.06E+03	-839.	848.	-4.94E+04	5.18E+04
1/20	-80.5	-4.35E+03	9.46E+03	-4.10E+03	6.68E+03	-8.04E+04	1.35E+05
1/15	86.7	-1.01E+04	1.22E+04	-8.88E+03	9.18E+03	-1.34E+05	1.36E+05
1/10	-20.7	-2.49E+04	2.17E+04	-2.23E+04	1.83E+04	-2.23E+05	1.83E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-756. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-757. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.13	-870.	963.	-865.	886.	-5.20E+04	5.30E+04
1/20	43.6	-4.27E+03	1.00E+04	-4.12E+03	8.52E+03	-8.32E+04	1.70E+05
1/15	-28.8	-1.03E+04	1.27E+04	-9.99E+03	1.12E+04	-1.49E+05	1.68E+05
1/10	-116.	-1.98E+04	1.50E+04	-1.82E+04	1.37E+04	-1.81E+05	1.38E+05

Table Q-758. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.13	-870.	963.	-865.	886.	-5.20E+04	5.30E+04
1/20	43.6	-4.27E+03	1.00E+04	-4.12E+03	8.52E+03	-8.32E+04	1.70E+05
1/15	-28.8	-1.03E+04	1.27E+04	-9.99E+03	1.12E+04	-1.49E+05	1.68E+05
1/10	-116.	-1.98E+04	1.50E+04	-1.82E+04	1.37E+04	-1.81E+05	1.38E+05

Table Q-759. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-760. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.02	-639.	398.	-618.	388.	-3.69E+04	2.35E+04
1/20	269.	-4.19E+03	8.36E+03	-3.35E+03	6.34E+03	-7.25E+04	1.21E+05
1/15	558.	-7.93E+03	1.30E+04	-7.15E+03	1.06E+04	-1.16E+05	1.50E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

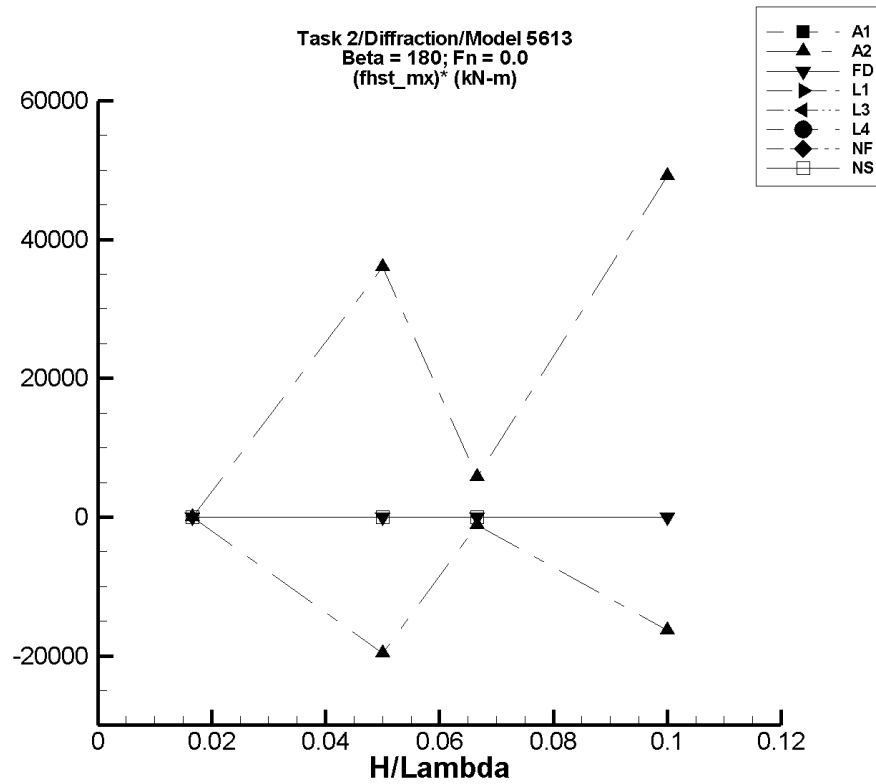


Figure Q-96. Minimum and maximum of filtered  $(M_x^{hst} - \langle M_x^{hst} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-761. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-762. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.11E-05	-9.98E-04	1.74E-03	-2.90E-04	1.01E-03	-2.22E-02	5.58E-02
1/20	202.	-5.57E+03	1.50E+04	-778.	2.00E+03	-1.96E+04	3.60E+04
1/15	39.3	-7.36E-03	3.24E+03	-36.7	428.	-1.14E+03	5.82E+03
1/10	395.	-7.45E+03	4.01E+04	-1.24E+03	5.31E+03	-1.63E+04	4.92E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-763. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.18E-04	-6.57E-04	6.56E-04	-4.99E-05	2.98E-04	-1.01E-02	1.08E-02
1/20	-1.07E-02	-5.48E-02	7.47E-03	-4.97E-02	1.57E-03	-0.780	0.245
1/15	-1.09E-02	-5.03E-02	6.41E-03	-3.15E-02	6.79E-03	-0.309	0.265
1/10	-4.73E-03	-8.60E-02	8.79E-02	-1.81E-02	1.37E-02	-0.133	0.184

Table Q-764. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-765. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-766. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-767. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-768. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.55E-04	-1.01E-02	7.61E-03	-3.45E-03	4.26E-03	-0.192	0.271
1/20	3.06E-04	-9.62E-03	1.06E-02	-3.50E-03	3.64E-03	-7.61E-02	6.66E-02
1/15	-4.30E-04	-1.46E-02	1.64E-02	-6.31E-03	6.80E-03	-8.81E-02	0.108
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

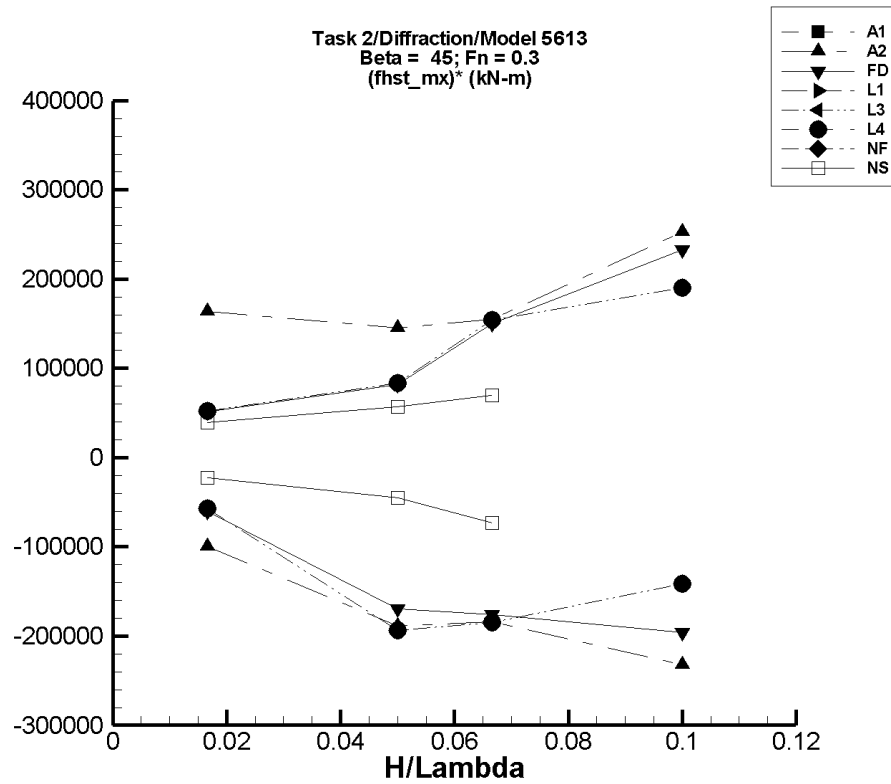


Figure Q-97. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-769. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-770. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	42.2	-1.65E+03	2.87E+03	-1.62E+03	2.77E+03	-9.96E+04	1.64E+05
1/20	151.	-1.61E+04	1.39E+04	-9.28E+03	7.42E+03	-1.89E+05	1.45E+05
1/15	-12.2	-1.30E+04	1.14E+04	-1.23E+04	1.03E+04	-1.84E+05	1.55E+05
1/10	174.	-5.75E+04	2.72E+04	-2.31E+04	2.54E+04	-2.32E+05	2.53E+05

Table Q-771. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.795	-1.07E+03	858.	-1.00E+03	850.	-6.03E+04	5.10E+04
1/20	-9.93	-9.44E+03	4.36E+03	-8.49E+03	4.09E+03	-1.70E+05	8.20E+04
1/15	4.44	-1.23E+04	1.01E+04	-1.17E+04	1.00E+04	-1.76E+05	1.50E+05
1/10	408.	-2.16E+04	2.51E+04	-1.92E+04	2.37E+04	-1.96E+05	2.33E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-772. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-773. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.19	-962.	870.	-947.	867.	-5.71E+04	5.18E+04
1/20	33.8	-1.00E+04	4.27E+03	-9.64E+03	4.20E+03	-1.94E+05	8.34E+04
1/15	-34.8	-1.27E+04	1.04E+04	-1.23E+04	1.02E+04	-1.84E+05	1.54E+05
1/10	114.	-1.52E+04	1.98E+04	-1.40E+04	1.92E+04	-1.42E+05	1.91E+05

Table Q-774. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.19	-962.	870.	-947.	867.	-5.71E+04	5.18E+04
1/20	33.8	-1.00E+04	4.27E+03	-9.64E+03	4.20E+03	-1.94E+05	8.34E+04
1/15	-34.8	-1.27E+04	1.04E+04	-1.23E+04	1.02E+04	-1.84E+05	1.54E+05
1/10	114.	-1.52E+04	1.98E+04	-1.40E+04	1.92E+04	-1.42E+05	1.91E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-775. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-776. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.56	-414.	701.	-370.	655.	-2.24E+04	3.91E+04
1/20	111.	-2.80E+03	3.60E+03	-2.13E+03	2.95E+03	-4.48E+04	5.68E+04
1/15	320.	-5.80E+03	6.11E+03	-4.55E+03	4.95E+03	-7.30E+04	6.95E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

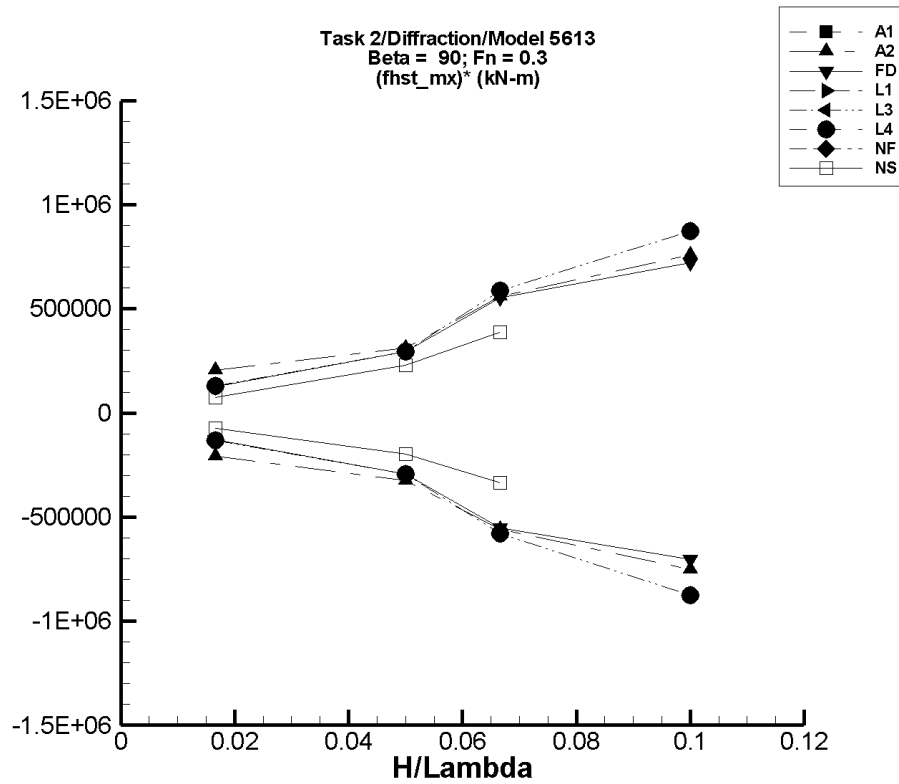


Figure Q-98. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-777. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-778. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	28.6	-3.97E+03	3.94E+03	-3.41E+03	3.42E+03	-2.06E+05	2.04E+05
1/20	-139.	-2.74E+04	2.63E+04	-1.63E+04	1.55E+04	-3.24E+05	3.13E+05
1/15	142.	-4.04E+04	4.05E+04	-3.71E+04	3.75E+04	-5.58E+05	5.60E+05
1/10	-156.	-9.96E+04	1.01E+05	-7.52E+04	7.57E+04	-7.51E+05	7.58E+05

Table Q-779. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	23.0	-2.23E+03	2.23E+03	-2.13E+03	2.13E+03	-1.29E+05	1.26E+05
1/20	12.7	-1.53E+04	1.53E+04	-1.47E+04	1.47E+04	-2.95E+05	2.94E+05
1/15	66.5	-3.96E+04	3.96E+04	-3.68E+04	3.70E+04	-5.53E+05	5.54E+05
1/10	-770.	-9.20E+04	9.37E+04	-7.11E+04	7.14E+04	-7.03E+05	7.21E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q-780. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-781. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.53	-2.21E+03	2.21E+03	-2.18E+03	2.18E+03	-1.31E+05	1.30E+05
1/20	-80.2	-1.50E+04	1.50E+04	-1.47E+04	1.47E+04	-2.93E+05	2.96E+05
1/15	-290.	-3.99E+04	3.99E+04	-3.89E+04	3.89E+04	-5.79E+05	5.87E+05
1/10	226.	-9.49E+04	9.49E+04	-8.73E+04	8.75E+04	-8.76E+05	8.73E+05

Table Q-782. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.53	-2.21E+03	2.21E+03	-2.18E+03	2.18E+03	-1.31E+05	1.30E+05
1/20	-80.2	-1.50E+04	1.50E+04	-1.47E+04	1.47E+04	-2.93E+05	2.96E+05
1/15	-290.	-3.99E+04	3.99E+04	-3.89E+04	3.89E+04	-5.79E+05	5.87E+05
1/10	226.	-9.49E+04	9.49E+04	-8.73E+04	8.75E+04	-8.76E+05	8.73E+05

Table Q-783. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-784. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.86	-1.27E+03	1.28E+03	-1.24E+03	1.25E+03	-7.39E+04	7.52E+04
1/20	333.	-1.05E+04	1.23E+04	-9.47E+03	1.18E+04	-1.96E+05	2.29E+05
1/15	579.	-2.35E+04	2.78E+04	-2.18E+04	2.65E+04	-3.36E+05	3.89E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

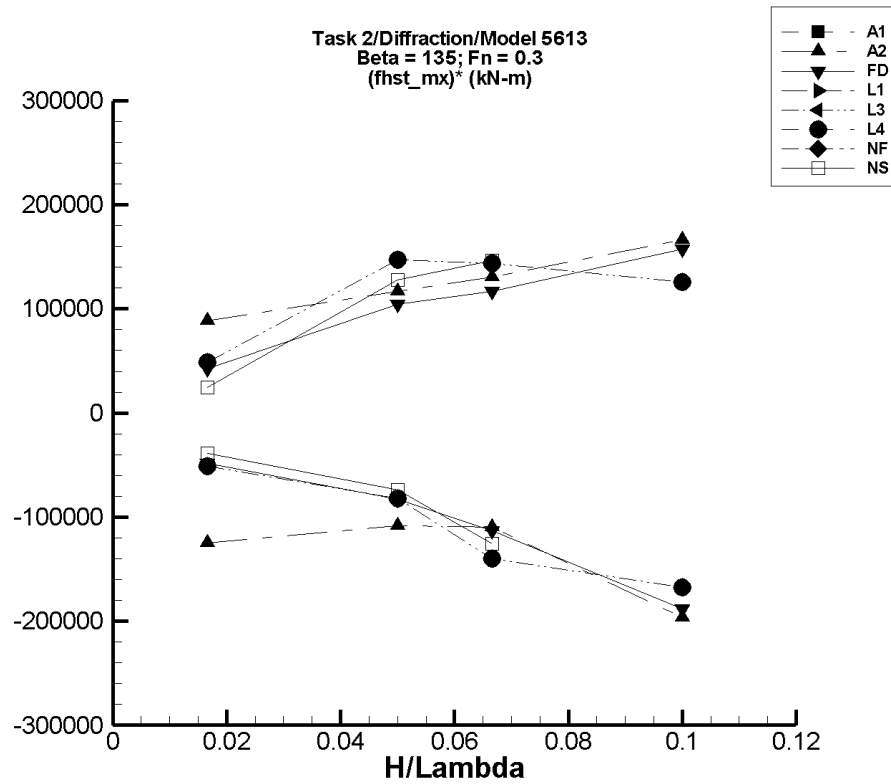


Figure Q-99. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-785. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-786. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	32.3	-2.87E+03	1.63E+03	-2.05E+03	1.50E+03	-1.25E+05	8.83E+04
1/20	134.	-6.33E+03	1.07E+04	-5.27E+03	5.97E+03	-1.08E+05	1.17E+05
1/15	158.	-1.14E+04	1.26E+04	-7.14E+03	8.88E+03	-1.09E+05	1.31E+05
1/10	-83.9	-2.54E+04	2.12E+04	-1.97E+04	1.65E+04	-1.96E+05	1.66E+05

Table Q-787. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-8.02	-847.	1.04E+03	-820.	697.	-4.87E+04	4.23E+04
1/20	40.7	-4.37E+03	9.43E+03	-4.08E+03	5.27E+03	-8.25E+04	1.05E+05
1/15	97.6	-9.88E+03	1.22E+04	-7.45E+03	7.90E+03	-1.13E+05	1.17E+05
1/10	-192.	-2.51E+04	1.96E+04	-1.90E+04	1.56E+04	-1.88E+05	1.58E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-788. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-789. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.31	-870.	960.	-858.	801.	-5.11E+04	4.84E+04
1/20	-8.78	-4.26E+03	9.92E+03	-4.13E+03	7.35E+03	-8.23E+04	1.47E+05
1/15	71.9	-1.01E+04	1.27E+04	-9.25E+03	9.64E+03	-1.40E+05	1.44E+05
1/10	74.1	-1.97E+04	1.44E+04	-1.67E+04	1.26E+04	-1.68E+05	1.26E+05

Table Q-790. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.31	-870.	960.	-858.	801.	-5.11E+04	4.84E+04
1/20	-8.78	-4.26E+03	9.92E+03	-4.13E+03	7.35E+03	-8.23E+04	1.47E+05
1/15	71.9	-1.01E+04	1.27E+04	-9.25E+03	9.64E+03	-1.40E+05	1.44E+05
1/10	74.1	-1.97E+04	1.44E+04	-1.67E+04	1.26E+04	-1.68E+05	1.26E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–791. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–792. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.36	-670.	410.	-649.	403.	-3.88E+04	2.44E+04
1/20	281.	-4.29E+03	8.75E+03	-3.40E+03	6.67E+03	-7.37E+04	1.28E+05
1/15	622.	-9.31E+03	1.25E+04	-7.76E+03	1.04E+04	-1.26E+05	1.47E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

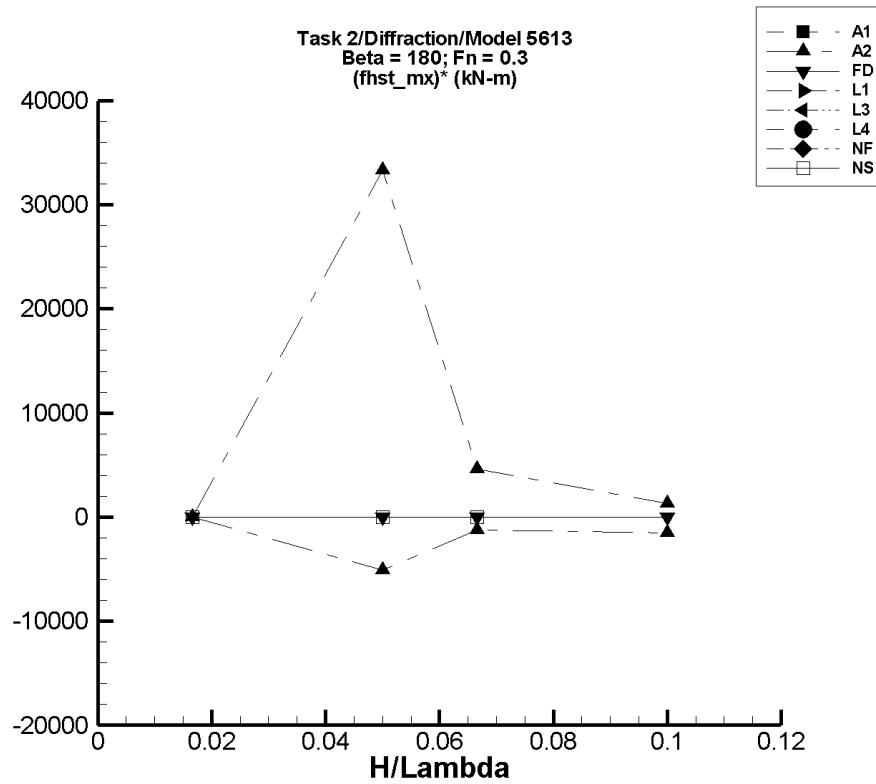


Figure Q-100. Minimum and maximum of filtered  $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-793. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-794. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.71E-05	-7.61E-04	1.82E-03	-1.55E-04	6.79E-04	-1.51E-02	3.49E-02
1/20	104.	-1.58E-03	1.33E+04	-152.	1.77E+03	-5.11E+03	3.33E+04
1/15	51.1	-7.36E-03	2.68E+03	-30.4	357.	-1.22E+03	4.59E+03
1/10	-2.39	-1.12E+03	912.	-156.	131.	-1.54E+03	1.33E+03

Table Q-795. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.34E-04	-2.27E-02	1.51E-02	-1.26E-02	8.74E-03	-0.750	0.532
1/20	3.37E-04	-2.50E-02	2.55E-02	-4.38E-03	5.61E-03	-9.43E-02	0.105
1/15	-2.44E-03	-8.97E-02	4.75E-02	-2.37E-02	9.83E-03	-0.319	0.184
1/10	7.76E-03	-0.173	0.264	-6.28E-02	0.130	-0.706	1.23



TASK 2/DIFFRACTION/MODEL 5613

Table Q–796. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–797. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–798. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-799. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-800. Minimum and Maximum of Variables  $M_x^{\text{hst}}$  and  $(M_x^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{hst}} \rangle$	Unfiltered $M_x^{\text{hst}}$		Filtered $M_x^{\text{hst}}$		Filtered $(M_x^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.93E-04	-9.02E-03	1.13E-02	-2.17E-03	3.85E-03	-0.119	0.242
1/20	-8.14E-05	-1.07E-02	1.32E-02	-2.29E-03	5.06E-03	-4.42E-02	0.103
1/15	-8.03E-04	-1.59E-02	1.38E-02	-6.33E-03	4.09E-03	-8.29E-02	7.33E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

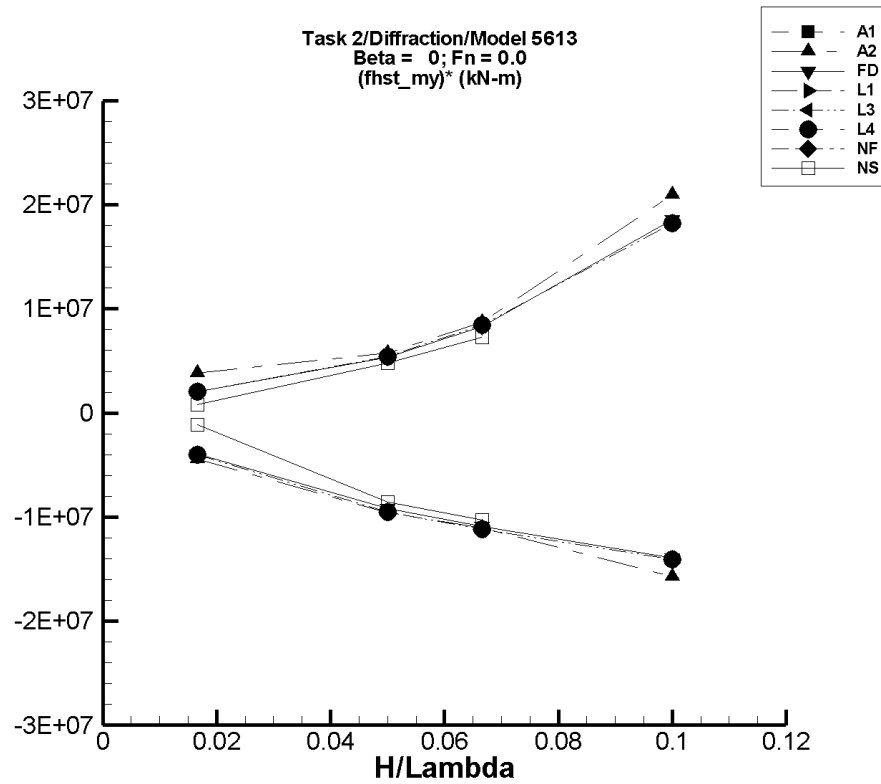


Figure Q-101. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-801. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-802. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.64E+03	-7.90E+04	6.40E+04	-7.65E+04	6.10E+04	-4.43E+06	3.82E+06
1/20	-8.78E+04	-5.84E+05	2.05E+05	-5.66E+05	2.00E+05	-9.56E+06	5.77E+06
1/15	-1.23E+05	-8.72E+05	4.96E+05	-8.60E+05	4.56E+05	-1.10E+07	8.70E+06
1/10	3.04E+05	-1.30E+06	2.42E+06	-1.27E+06	2.40E+06	-1.57E+07	2.10E+07

Table Q-803. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.71E+04	-8.40E+04	1.73E+04	-8.26E+04	1.74E+04	-3.93E+06	2.07E+06
1/20	-1.08E+05	-5.85E+05	1.62E+05	-5.68E+05	1.61E+05	-9.21E+06	5.37E+06
1/15	-1.37E+05	-8.87E+05	4.14E+05	-8.65E+05	4.14E+05	-1.09E+07	8.27E+06
1/10	1.71E+05	-1.24E+06	2.10E+06	-1.22E+06	2.02E+06	-1.39E+07	1.85E+07

Table Q-804. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-805. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-8.96E+04	1.26E+04	-8.91E+04	1.25E+04	-4.03E+06	2.07E+06
1/20	-1.11E+05	-5.92E+05	1.61E+05	-5.86E+05	1.61E+05	-9.51E+06	5.43E+06
1/15	-1.40E+05	-8.95E+05	4.20E+05	-8.85E+05	4.20E+05	-1.12E+07	8.41E+06
1/10	1.66E+05	-1.25E+06	2.07E+06	-1.24E+06	1.99E+06	-1.40E+07	1.82E+07

Table Q-806. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-8.96E+04	1.26E+04	-8.91E+04	1.25E+04	-4.03E+06	2.07E+06
1/20	-1.11E+05	-5.92E+05	1.61E+05	-5.86E+05	1.61E+05	-9.51E+06	5.43E+06
1/15	-1.40E+05	-8.95E+05	4.20E+05	-8.85E+05	4.20E+05	-1.12E+07	8.41E+06
1/10	1.66E+05	-1.25E+06	2.07E+06	-1.24E+06	1.99E+06	-1.40E+07	1.82E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-807. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-808. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E+04	-9.43E+04	-6.11E+04	-9.37E+04	-6.14E+04	-1.11E+06	8.35E+05
1/20	-1.60E+05	-5.98E+05	8.19E+04	-5.88E+05	8.05E+04	-8.56E+06	4.81E+06
1/15	-2.74E+05	-9.91E+05	2.14E+05	-9.58E+05	2.11E+05	-1.03E+07	7.28E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

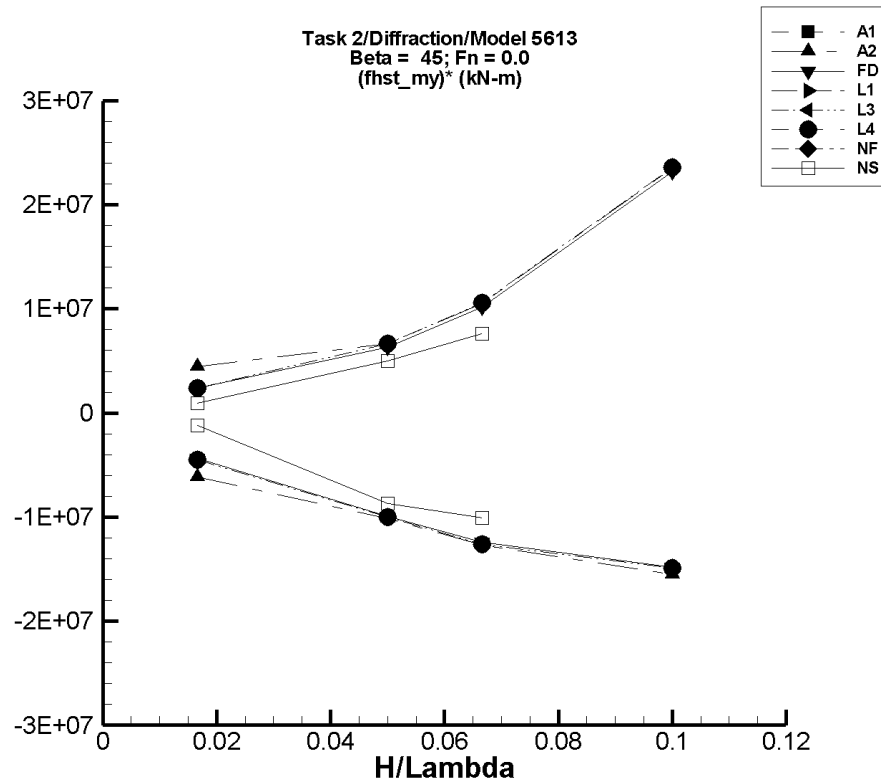


Figure Q-102. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-809. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-810. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.13E+03	-1.09E+05	7.14E+04	-1.06E+05	7.15E+04	-6.16E+06	4.48E+06
1/20	-8.48E+04	-6.05E+05	2.47E+05	-5.93E+05	2.47E+05	-1.02E+07	6.63E+06
1/15	-1.24E+05	-9.85E+05	5.94E+05	-9.69E+05	5.75E+05	-1.27E+07	1.05E+07
1/10	2.13E+05	-1.37E+06	2.66E+06	-1.34E+06	2.56E+06	-1.55E+07	2.35E+07

Table Q-811. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.70E+04	-9.15E+04	2.26E+04	-9.00E+04	2.24E+04	-4.38E+06	2.36E+06
1/20	-1.03E+05	-6.09E+05	2.18E+05	-6.01E+05	2.14E+05	-9.96E+06	6.34E+06
1/15	-1.37E+05	-9.81E+05	5.48E+05	-9.65E+05	5.39E+05	-1.24E+07	1.01E+07
1/10	1.90E+05	-1.31E+06	2.60E+06	-1.30E+06	2.51E+06	-1.49E+07	2.32E+07

Table Q-812. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-813. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.17E+04	-9.70E+04	1.86E+04	-9.64E+04	1.85E+04	-4.49E+06	2.41E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.09E+05	2.24E+05	-1.00E+07	6.63E+06
1/15	-1.46E+05	-9.90E+05	5.66E+05	-9.89E+05	5.61E+05	-1.26E+07	1.06E+07
1/10	1.79E+05	-1.32E+06	2.61E+06	-1.31E+06	2.54E+06	-1.49E+07	2.36E+07

Table Q-814. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.17E+04	-9.70E+04	1.86E+04	-9.64E+04	1.85E+04	-4.49E+06	2.41E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.09E+05	2.24E+05	-1.00E+07	6.63E+06
1/15	-1.46E+05	-9.90E+05	5.66E+05	-9.89E+05	5.61E+05	-1.26E+07	1.06E+07
1/10	1.79E+05	-1.32E+06	2.61E+06	-1.31E+06	2.54E+06	-1.49E+07	2.36E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-815. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-816. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.51E+04	-9.56E+04	-6.00E+04	-9.50E+04	-6.00E+04	-1.19E+06	9.07E+05
1/20	-1.54E+05	-6.00E+05	9.85E+04	-5.87E+05	9.51E+04	-8.67E+06	4.98E+06
1/15	-2.73E+05	-9.51E+05	2.42E+05	-9.47E+05	2.36E+05	-1.01E+07	7.64E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

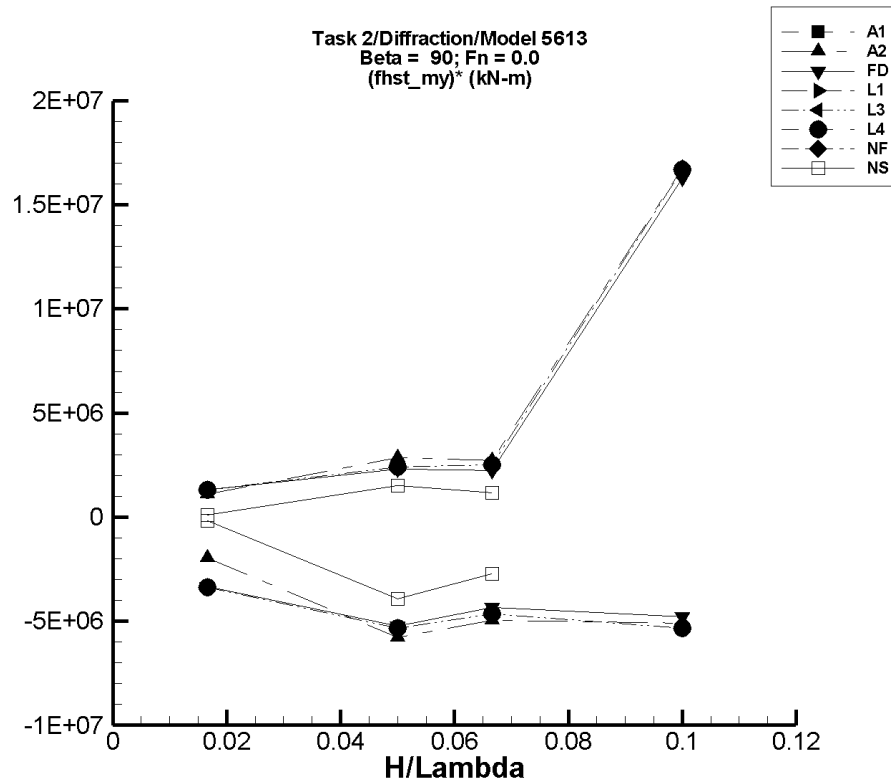


Figure Q-103. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-817. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-818. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.91E+03	-3.67E+04	1.79E+04	-3.57E+04	1.55E+04	-1.97E+06	1.10E+06
1/20	-8.19E+04	-3.79E+05	6.40E+04	-3.72E+05	6.16E+04	-5.79E+06	2.87E+06
1/15	-1.23E+05	-5.86E+05	6.23E+04	-4.54E+05	5.88E+04	-4.97E+06	2.72E+06
1/10	1.87E+05	-4.81E+05	1.95E+06	-3.23E+05	1.86E+06	-5.11E+06	1.68E+07

Table Q–819. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.71E+04	-7.33E+04	4.60E+03	-7.27E+04	4.55E+03	-3.33E+06	1.30E+06
1/20	-1.07E+05	-3.71E+05	8.02E+03	-3.70E+05	7.30E+03	-5.25E+06	2.29E+06
1/15	-1.40E+05	-4.46E+05	1.08E+04	-4.30E+05	9.83E+03	-4.35E+06	2.24E+06
1/10	1.76E+05	-3.71E+05	1.88E+06	-3.02E+05	1.80E+06	-4.78E+06	1.63E+07

Table Q–820. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-821. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-7.86E+04	-99.4	-7.82E+04	-115.	-3.38E+06	1.31E+06
1/20	-1.08E+05	-3.77E+05	1.27E+04	-3.76E+05	1.26E+04	-5.35E+06	2.42E+06
1/15	-1.42E+05	-4.59E+05	2.61E+04	-4.52E+05	2.59E+04	-4.66E+06	2.51E+06
1/10	1.91E+05	-3.82E+05	1.82E+06	-3.44E+05	1.86E+06	-5.35E+06	1.67E+07

Table Q-822. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-7.86E+04	-99.4	-7.82E+04	-115.	-3.38E+06	1.31E+06
1/20	-1.08E+05	-3.77E+05	1.27E+04	-3.76E+05	1.26E+04	-5.35E+06	2.42E+06
1/15	-1.42E+05	-4.59E+05	2.61E+04	-4.52E+05	2.59E+04	-4.66E+06	2.51E+06
1/10	1.91E+05	-3.82E+05	1.82E+06	-3.44E+05	1.86E+06	-5.35E+06	1.67E+07



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-823. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-824. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.47E+04	-7.75E+04	-7.26E+04	-7.74E+04	-7.29E+04	-1.63E+05	1.06E+05
1/20	-1.49E+05	-3.70E+05	-7.20E+04	-3.45E+05	-7.35E+04	-3.93E+06	1.51E+06
1/15	-2.72E+05	-4.70E+05	-1.93E+05	-4.54E+05	-1.93E+05	-2.73E+06	1.18E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

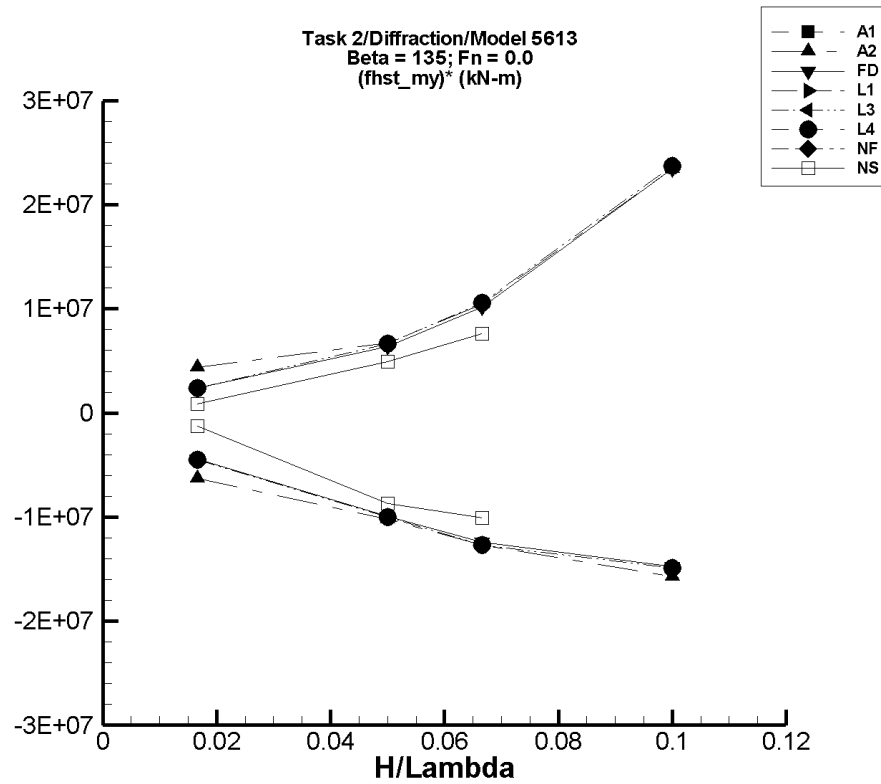


Figure Q-104. Minimum and maximum of filtered  $(M_y^{hst} - \langle M_y^{hst} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-825. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-826. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.91E+03	-1.09E+05	7.14E+04	-1.08E+05	7.00E+04	-6.32E+06	4.38E+06
1/20	-8.11E+04	-6.04E+05	3.14E+05	-5.91E+05	2.55E+05	-1.02E+07	6.72E+06
1/15	-1.23E+05	-9.89E+05	5.96E+05	-9.69E+05	5.71E+05	-1.27E+07	1.04E+07
1/10	2.22E+05	-1.37E+06	2.68E+06	-1.35E+06	2.57E+06	-1.57E+07	2.35E+07

Table Q-827. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.73E+04	-9.15E+04	2.26E+04	-9.09E+04	2.24E+04	-4.42E+06	2.38E+06
1/20	-1.05E+05	-6.08E+05	2.18E+05	-6.02E+05	2.14E+05	-9.93E+06	6.38E+06
1/15	-1.37E+05	-9.81E+05	5.49E+05	-9.65E+05	5.39E+05	-1.24E+07	1.01E+07
1/10	1.79E+05	-1.31E+06	2.62E+06	-1.30E+06	2.52E+06	-1.47E+07	2.34E+07

Table Q-828. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-829. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.17E+04	-9.70E+04	1.86E+04	-9.64E+04	1.85E+04	-4.48E+06	2.41E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.09E+05	2.24E+05	-1.00E+07	6.63E+06
1/15	-1.43E+05	-9.90E+05	5.66E+05	-9.88E+05	5.61E+05	-1.27E+07	1.06E+07
1/10	1.79E+05	-1.32E+06	2.61E+06	-1.31E+06	2.55E+06	-1.49E+07	2.37E+07

Table Q-830. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.17E+04	-9.70E+04	1.86E+04	-9.64E+04	1.85E+04	-4.48E+06	2.41E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.09E+05	2.24E+05	-1.00E+07	6.63E+06
1/15	-1.43E+05	-9.90E+05	5.66E+05	-9.88E+05	5.61E+05	-1.27E+07	1.06E+07
1/10	1.79E+05	-1.32E+06	2.61E+06	-1.31E+06	2.55E+06	-1.49E+07	2.37E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-831. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-832. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.51E+04	-9.55E+04	-6.00E+04	-9.55E+04	-6.02E+04	-1.23E+06	8.90E+05
1/20	-1.51E+05	-6.00E+05	9.84E+04	-5.86E+05	9.50E+04	-8.68E+06	4.93E+06
1/15	-2.72E+05	-9.54E+05	2.41E+05	-9.42E+05	2.35E+05	-1.00E+07	7.61E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

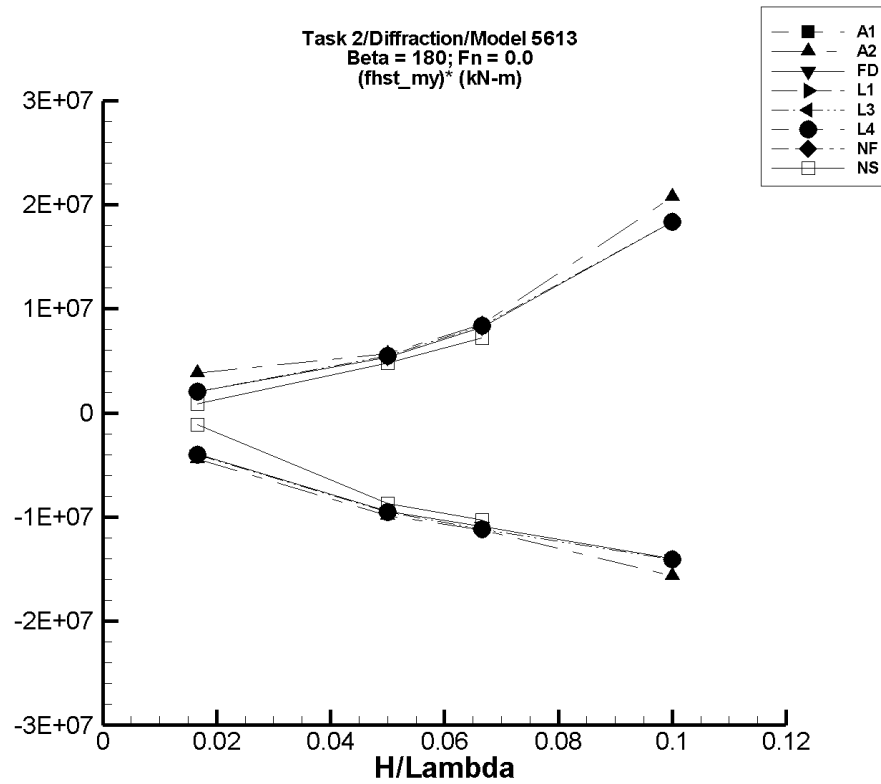


Figure Q-105. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-833. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-834. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.65E+03	-7.90E+04	6.42E+04	-7.66E+04	6.09E+04	-4.43E+06	3.82E+06
1/20	-8.54E+04	-5.84E+05	2.05E+05	-5.77E+05	1.98E+05	-9.84E+06	5.68E+06
1/15	-1.22E+05	-8.88E+05	4.56E+05	-8.70E+05	4.48E+05	-1.12E+07	8.54E+06
1/10	2.97E+05	-1.29E+06	2.42E+06	-1.27E+06	2.37E+06	-1.56E+07	2.07E+07



Table Q-835. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.66E+04	-8.40E+04	1.73E+04	-8.26E+04	1.72E+04	-3.96E+06	2.03E+06
1/20	-1.11E+05	-5.85E+05	1.62E+05	-5.82E+05	1.58E+05	-9.44E+06	5.38E+06
1/15	-1.40E+05	-8.86E+05	4.14E+05	-8.65E+05	4.09E+05	-1.09E+07	8.23E+06
1/10	1.83E+05	-1.24E+06	2.10E+06	-1.22E+06	2.02E+06	-1.40E+07	1.84E+07

Table Q-836. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-837. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-8.96E+04	1.26E+04	-8.91E+04	1.25E+04	-4.03E+06	2.06E+06
1/20	-1.12E+05	-5.92E+05	1.61E+05	-5.90E+05	1.60E+05	-9.55E+06	5.45E+06
1/15	-1.39E+05	-8.94E+05	4.20E+05	-8.85E+05	4.19E+05	-1.12E+07	8.37E+06
1/10	1.70E+05	-1.25E+06	2.14E+06	-1.24E+06	2.00E+06	-1.41E+07	1.83E+07

Table Q-838. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-8.96E+04	1.26E+04	-8.91E+04	1.25E+04	-4.03E+06	2.06E+06
1/20	-1.12E+05	-5.92E+05	1.61E+05	-5.90E+05	1.60E+05	-9.55E+06	5.45E+06
1/15	-1.39E+05	-8.94E+05	4.20E+05	-8.85E+05	4.19E+05	-1.12E+07	8.37E+06
1/10	1.70E+05	-1.25E+06	2.14E+06	-1.24E+06	2.00E+06	-1.41E+07	1.83E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-839. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-840. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E+04	-9.43E+04	-6.11E+04	-9.37E+04	-6.14E+04	-1.10E+06	8.39E+05
1/20	-1.60E+05	-5.98E+05	8.19E+04	-5.95E+05	8.05E+04	-8.70E+06	4.81E+06
1/15	-2.71E+05	-9.91E+05	2.14E+05	-9.58E+05	2.11E+05	-1.03E+07	7.24E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

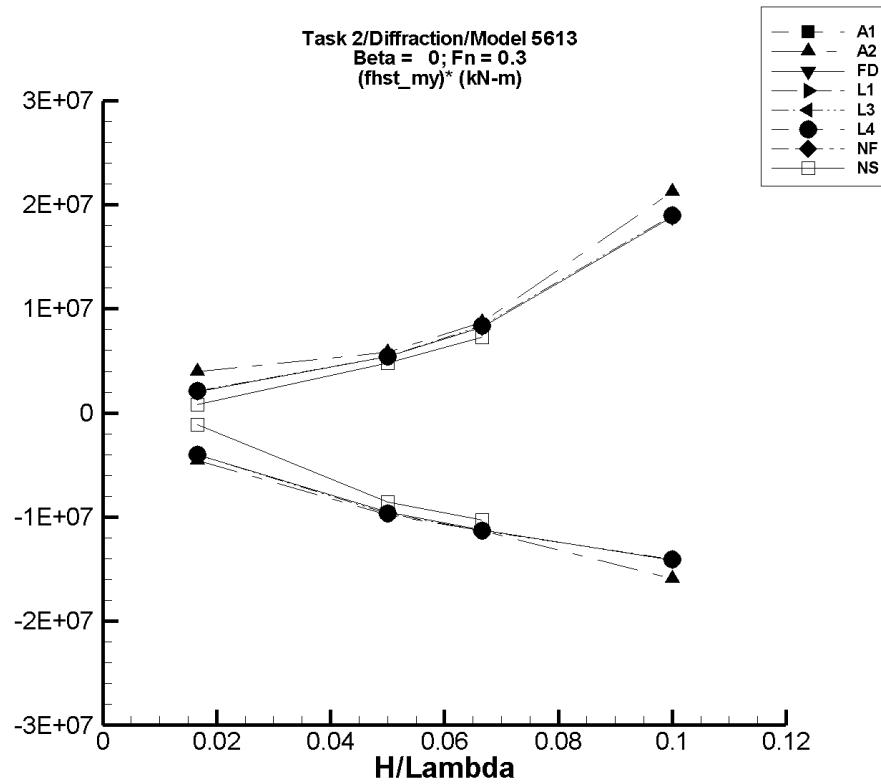


Figure Q-106. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-841. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-842. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.61E+03	-7.90E+04	6.42E+04	-7.89E+04	6.39E+04	-4.57E+06	3.99E+06
1/20	-8.68E+04	-5.84E+05	2.05E+05	-5.76E+05	2.05E+05	-9.78E+06	5.84E+06
1/15	-1.25E+05	-8.89E+05	4.96E+05	-8.78E+05	4.56E+05	-1.13E+07	8.71E+06
1/10	3.04E+05	-1.30E+06	2.42E+06	-1.29E+06	2.43E+06	-1.59E+07	2.13E+07

Table Q-843. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.70E+04	-8.40E+04	1.73E+04	-8.40E+04	1.73E+04	-4.02E+06	2.06E+06
1/20	-1.08E+05	-5.85E+05	1.62E+05	-5.84E+05	1.62E+05	-9.53E+06	5.39E+06
1/15	-1.37E+05	-8.87E+05	4.14E+05	-8.85E+05	4.15E+05	-1.12E+07	8.27E+06
1/10	1.76E+05	-1.24E+06	2.10E+06	-1.24E+06	2.06E+06	-1.41E+07	1.88E+07

Table Q-844. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-845. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.23E+04	-8.96E+04	1.26E+04	-8.96E+04	1.26E+04	-4.04E+06	2.09E+06
1/20	-1.09E+05	-5.92E+05	1.61E+05	-5.91E+05	1.61E+05	-9.63E+06	5.40E+06
1/15	-1.38E+05	-8.95E+05	4.20E+05	-8.94E+05	4.20E+05	-1.13E+07	8.37E+06
1/10	1.64E+05	-1.25E+06	2.14E+06	-1.24E+06	2.06E+06	-1.41E+07	1.90E+07

Table Q-846. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.23E+04	-8.96E+04	1.26E+04	-8.96E+04	1.26E+04	-4.04E+06	2.09E+06
1/20	-1.09E+05	-5.92E+05	1.61E+05	-5.91E+05	1.61E+05	-9.63E+06	5.40E+06
1/15	-1.38E+05	-8.95E+05	4.20E+05	-8.94E+05	4.20E+05	-1.13E+07	8.37E+06
1/10	1.64E+05	-1.25E+06	2.14E+06	-1.24E+06	2.06E+06	-1.41E+07	1.90E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-847. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-848. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E+04	-9.43E+04	-6.11E+04	-9.37E+04	-6.13E+04	-1.11E+06	8.36E+05
1/20	-1.60E+05	-5.98E+05	8.18E+04	-5.88E+05	8.06E+04	-8.57E+06	4.81E+06
1/15	-2.75E+05	-9.91E+05	2.14E+05	-9.58E+05	2.11E+05	-1.02E+07	7.28E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

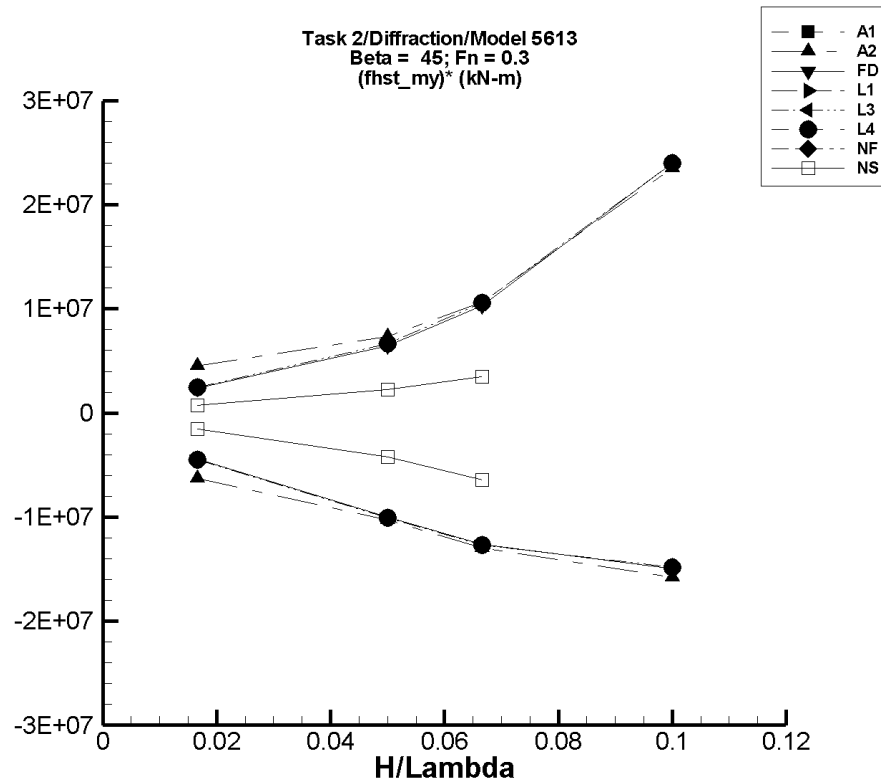


Figure Q-107. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-849. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-850. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.32E+03	-1.09E+05	7.14E+04	-1.08E+05	7.15E+04	-6.29E+06	4.49E+06
1/20	-8.31E+04	-6.05E+05	3.14E+05	-5.97E+05	2.85E+05	-1.03E+07	7.36E+06
1/15	-1.21E+05	-9.85E+05	6.25E+05	-9.84E+05	5.89E+05	-1.29E+07	1.07E+07
1/10	2.16E+05	-1.37E+06	2.66E+06	-1.36E+06	2.57E+06	-1.58E+07	2.35E+07

Table Q-851. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.68E+04	-9.15E+04	2.27E+04	-9.12E+04	2.26E+04	-4.46E+06	2.36E+06
1/20	-1.06E+05	-6.09E+05	2.18E+05	-6.06E+05	2.17E+05	-9.99E+06	6.47E+06
1/15	-1.42E+05	-9.81E+05	5.49E+05	-9.81E+05	5.46E+05	-1.26E+07	1.03E+07
1/10	1.90E+05	-1.31E+06	2.63E+06	-1.30E+06	2.59E+06	-1.49E+07	2.40E+07

Table Q-852. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-853. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.20E+04	-9.70E+04	1.86E+04	-9.69E+04	1.86E+04	-4.49E+06	2.44E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.12E+05	2.25E+05	-1.01E+07	6.67E+06
1/15	-1.41E+05	-9.90E+05	5.66E+05	-9.88E+05	5.65E+05	-1.27E+07	1.06E+07
1/10	1.73E+05	-1.32E+06	2.61E+06	-1.31E+06	2.58E+06	-1.48E+07	2.40E+07

Table Q-854. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.20E+04	-9.70E+04	1.86E+04	-9.69E+04	1.86E+04	-4.49E+06	2.44E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.12E+05	2.25E+05	-1.01E+07	6.67E+06
1/15	-1.41E+05	-9.90E+05	5.66E+05	-9.88E+05	5.65E+05	-1.27E+07	1.06E+07
1/10	1.73E+05	-1.32E+06	2.61E+06	-1.31E+06	2.58E+06	-1.48E+07	2.40E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-855. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-856. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.35E+04	-4.09E+04	-1.70E+03	-3.96E+04	-1.68E+03	-1.57E+06	7.07E+05
1/20	-1.12E+05	-3.44E+05	-886.	-3.23E+05	-793.	-4.20E+06	2.23E+06
1/15	-1.50E+05	-5.85E+05	8.44E+04	-5.80E+05	8.39E+04	-6.45E+06	3.51E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

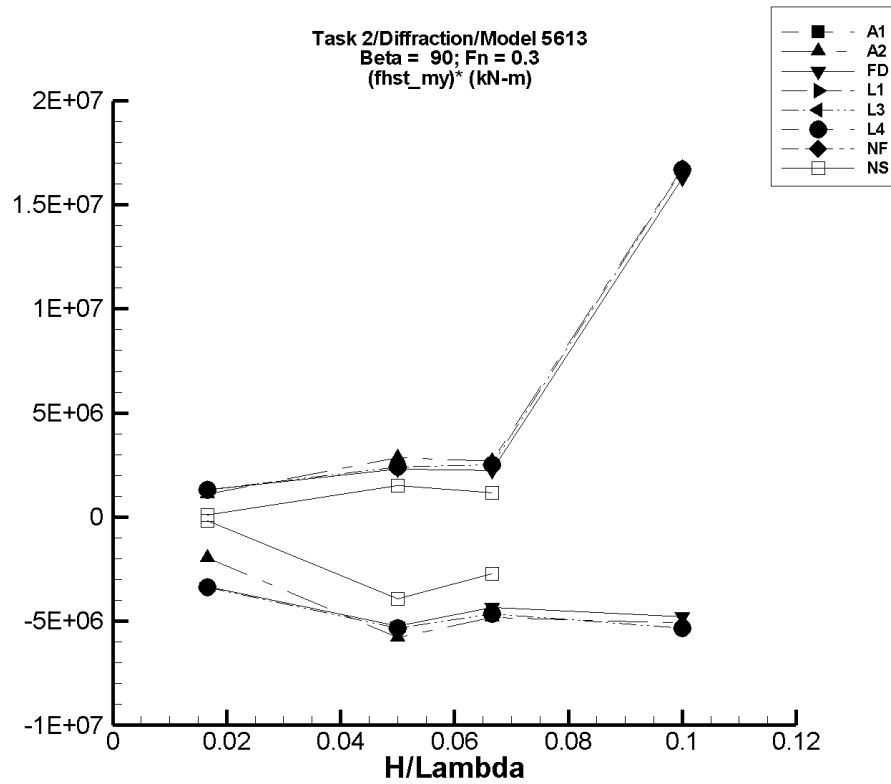


Figure Q-108. Minimum and maximum of filtered  $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-857. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-858. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.91E+03	-3.67E+04	1.79E+04	-3.57E+04	1.55E+04	-1.97E+06	1.10E+06
1/20	-8.19E+04	-3.79E+05	6.40E+04	-3.72E+05	6.16E+04	-5.79E+06	2.87E+06
1/15	-1.21E+05	-4.61E+05	6.23E+04	-4.43E+05	5.90E+04	-4.84E+06	2.69E+06
1/10	1.87E+05	-4.81E+05	1.95E+06	-3.23E+05	1.86E+06	-5.11E+06	1.68E+07

Table Q-859. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.71E+04	-7.33E+04	4.60E+03	-7.27E+04	4.55E+03	-3.33E+06	1.30E+06
1/20	-1.07E+05	-3.71E+05	8.02E+03	-3.70E+05	7.30E+03	-5.25E+06	2.29E+06
1/15	-1.40E+05	-4.46E+05	1.08E+04	-4.30E+05	9.83E+03	-4.35E+06	2.24E+06
1/10	1.76E+05	-3.71E+05	1.88E+06	-3.02E+05	1.80E+06	-4.78E+06	1.63E+07

Table Q-860. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-861. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-7.86E+04	-98.9	-7.82E+04	-115.	-3.38E+06	1.31E+06
1/20	-1.08E+05	-3.77E+05	1.27E+04	-3.76E+05	1.26E+04	-5.35E+06	2.42E+06
1/15	-1.42E+05	-4.59E+05	2.61E+04	-4.52E+05	2.59E+04	-4.66E+06	2.51E+06
1/10	1.91E+05	-3.82E+05	1.82E+06	-3.44E+05	1.86E+06	-5.35E+06	1.67E+07

Table Q-862. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.19E+04	-7.86E+04	-98.9	-7.82E+04	-115.	-3.38E+06	1.31E+06
1/20	-1.08E+05	-3.77E+05	1.27E+04	-3.76E+05	1.26E+04	-5.35E+06	2.42E+06
1/15	-1.42E+05	-4.59E+05	2.61E+04	-4.52E+05	2.59E+04	-4.66E+06	2.51E+06
1/10	1.91E+05	-3.82E+05	1.82E+06	-3.44E+05	1.86E+06	-5.35E+06	1.67E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-863. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-864. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.47E+04	-7.75E+04	-7.26E+04	-7.74E+04	-7.29E+04	-1.63E+05	1.06E+05
1/20	-1.49E+05	-3.70E+05	-7.20E+04	-3.45E+05	-7.35E+04	-3.93E+06	1.51E+06
1/15	-2.72E+05	-4.70E+05	-1.93E+05	-4.54E+05	-1.93E+05	-2.73E+06	1.18E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

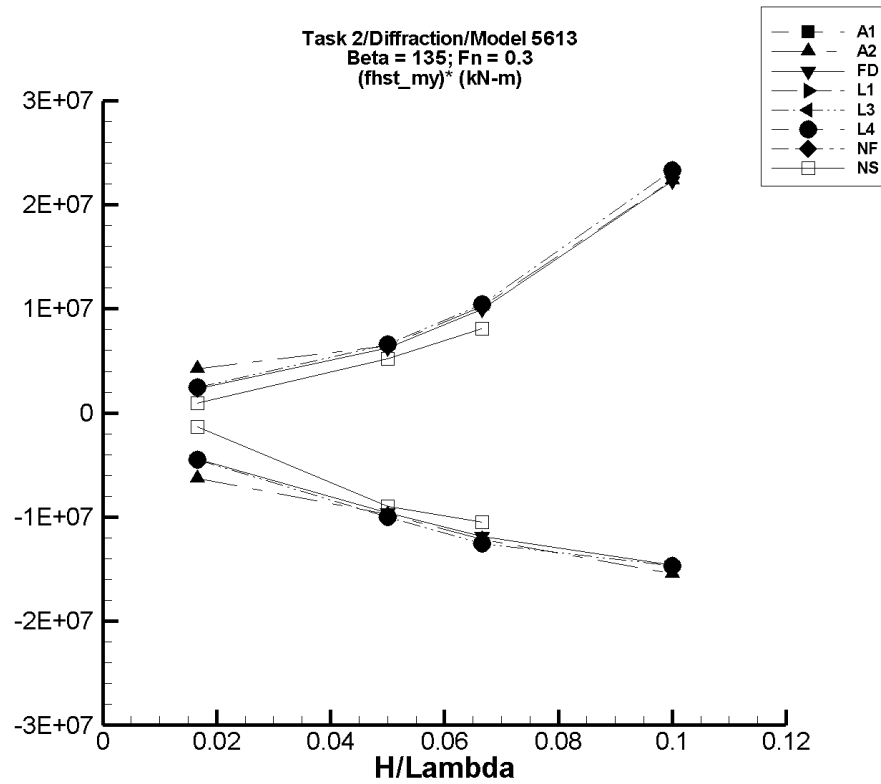


Figure Q-109. Minimum and maximum of filtered  $(M_y^{hst} - \langle M_y^{hst} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-865. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-866. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.79E+03	-1.09E+05	7.13E+04	-1.07E+05	6.84E+04	-6.27E+06	4.27E+06
1/20	-8.24E+04	-6.03E+05	2.47E+05	-5.71E+05	2.40E+05	-9.76E+06	6.46E+06
1/15	-1.21E+05	-9.85E+05	5.96E+05	-9.31E+05	5.59E+05	-1.21E+07	1.02E+07
1/10	2.24E+05	-1.36E+06	2.65E+06	-1.32E+06	2.46E+06	-1.55E+07	2.24E+07

Table Q-867. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.69E+04	-9.14E+04	2.26E+04	-9.09E+04	2.20E+04	-4.44E+06	2.33E+06
1/20	-1.04E+05	-6.08E+05	2.18E+05	-5.84E+05	2.09E+05	-9.58E+06	6.26E+06
1/15	-1.41E+05	-9.81E+05	5.49E+05	-9.33E+05	5.22E+05	-1.19E+07	9.94E+06
1/10	1.81E+05	-1.31E+06	2.59E+06	-1.28E+06	2.41E+06	-1.46E+07	2.22E+07

Table Q-868. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-869. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.21E+04	-9.70E+04	1.86E+04	-9.67E+04	1.83E+04	-4.48E+06	2.43E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.07E+05	2.22E+05	-9.99E+06	6.59E+06
1/15	-1.41E+05	-9.90E+05	5.66E+05	-9.77E+05	5.55E+05	-1.25E+07	1.04E+07
1/10	1.67E+05	-1.31E+06	2.61E+06	-1.30E+06	2.50E+06	-1.47E+07	2.33E+07

Table Q-870. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.21E+04	-9.70E+04	1.86E+04	-9.67E+04	1.83E+04	-4.48E+06	2.43E+06
1/20	-1.08E+05	-6.13E+05	2.25E+05	-6.07E+05	2.22E+05	-9.99E+06	6.59E+06
1/15	-1.41E+05	-9.90E+05	5.66E+05	-9.77E+05	5.55E+05	-1.25E+07	1.04E+07
1/10	1.67E+05	-1.31E+06	2.61E+06	-1.30E+06	2.50E+06	-1.47E+07	2.33E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-871. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-872. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E+04	-9.74E+04	-5.92E+04	-9.73E+04	-5.94E+04	-1.32E+06	9.49E+05
1/20	-1.54E+05	-6.12E+05	1.08E+05	-6.04E+05	1.05E+05	-8.99E+06	5.19E+06
1/15	-2.73E+05	-9.85E+05	2.73E+05	-9.71E+05	2.67E+05	-1.05E+07	8.11E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

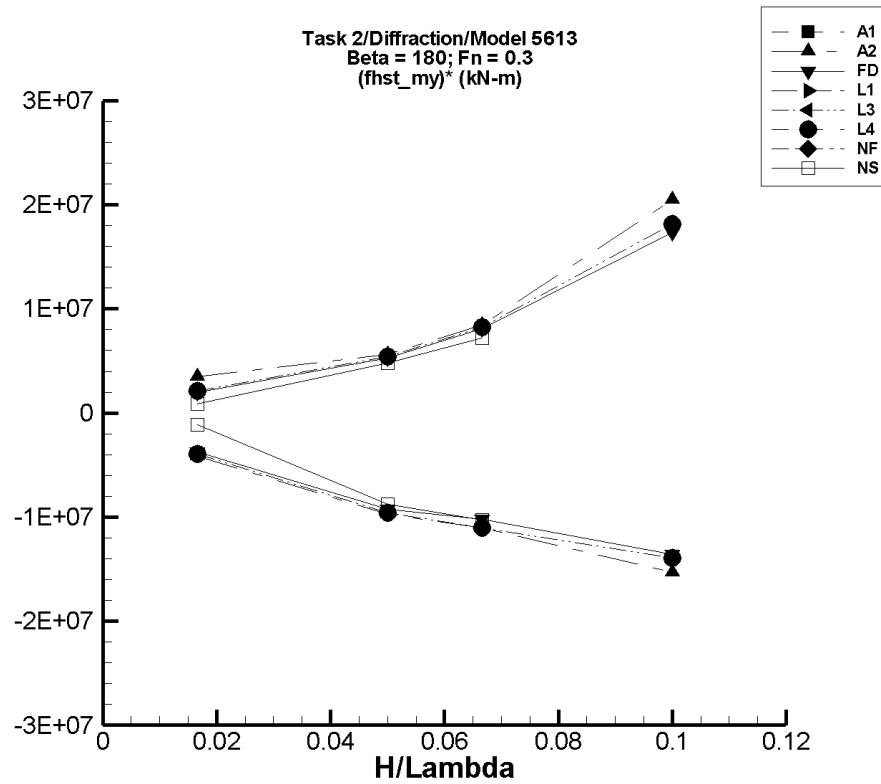


Figure Q-110. Minimum and maximum of filtered  $(M_y^{hst} - \langle M_y^{hst} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-873. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-874. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.50E+03	-7.90E+04	6.37E+04	-7.20E+04	5.53E+04	-4.17E+06	3.47E+06
1/20	-8.71E+04	-5.78E+05	2.05E+05	-5.74E+05	1.94E+05	-9.73E+06	5.61E+06
1/15	-1.25E+05	-8.83E+05	4.56E+05	-8.62E+05	4.36E+05	-1.10E+07	8.43E+06
1/10	3.07E+05	-1.29E+06	2.42E+06	-1.22E+06	2.36E+06	-1.53E+07	2.05E+07

Table Q-875. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.65E+04	-8.40E+04	1.73E+04	-7.92E+04	1.69E+04	-3.76E+06	2.00E+06
1/20	-1.10E+05	-5.85E+05	1.61E+05	-5.72E+05	1.54E+05	-9.22E+06	5.29E+06
1/15	-1.40E+05	-8.87E+05	4.14E+05	-8.19E+05	4.00E+05	-1.02E+07	8.10E+06
1/10	1.87E+05	-1.24E+06	2.08E+06	-1.17E+06	1.92E+06	-1.36E+07	1.73E+07

Table Q-876. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-877. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.22E+04	-8.96E+04	1.26E+04	-8.79E+04	1.26E+04	-3.95E+06	2.09E+06
1/20	-1.11E+05	-5.91E+05	1.61E+05	-5.89E+05	1.59E+05	-9.57E+06	5.39E+06
1/15	-1.34E+05	-8.94E+05	4.20E+05	-8.70E+05	4.16E+05	-1.10E+07	8.25E+06
1/10	1.74E+05	-1.25E+06	2.07E+06	-1.22E+06	1.99E+06	-1.40E+07	1.81E+07

Table Q-878. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.22E+04	-8.96E+04	1.26E+04	-8.79E+04	1.26E+04	-3.95E+06	2.09E+06
1/20	-1.11E+05	-5.91E+05	1.61E+05	-5.89E+05	1.59E+05	-9.57E+06	5.39E+06
1/15	-1.34E+05	-8.94E+05	4.20E+05	-8.70E+05	4.16E+05	-1.10E+07	8.25E+06
1/10	1.74E+05	-1.25E+06	2.07E+06	-1.22E+06	1.99E+06	-1.40E+07	1.81E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-879. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-880. Minimum and Maximum of Variables  $M_y^{\text{hst}}$  and  $(M_y^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{hst}} \rangle$	Unfiltered $M_y^{\text{hst}}$		Filtered $M_y^{\text{hst}}$		Filtered $(M_y^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E+04	-9.43E+04	-6.11E+04	-9.37E+04	-6.14E+04	-1.10E+06	8.39E+05
1/20	-1.60E+05	-5.98E+05	8.18E+04	-5.97E+05	8.05E+04	-8.74E+06	4.80E+06
1/15	-2.71E+05	-9.91E+05	2.14E+05	-9.58E+05	2.11E+05	-1.03E+07	7.23E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

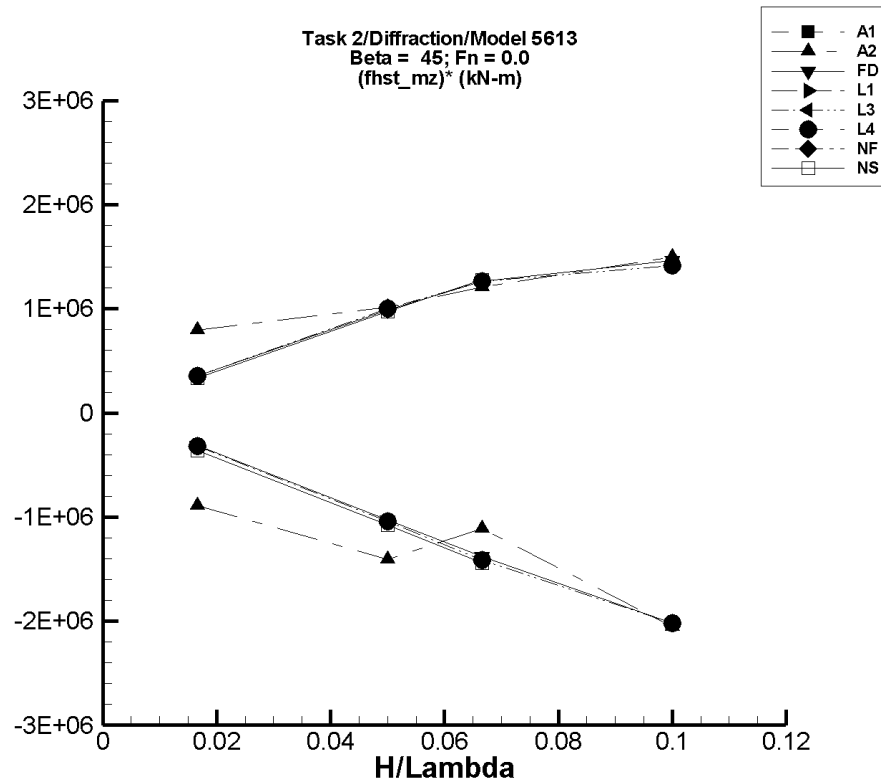


Figure Q-111. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–881. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–882. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	479.	-1.69E+04	1.55E+04	-1.44E+04	1.38E+04	-8.93E+05	7.99E+05
1/20	289.	-2.10E+05	1.41E+05	-7.02E+04	5.10E+04	-1.41E+06	1.01E+06
1/15	-149.	-9.36E+04	9.45E+04	-7.44E+04	8.03E+04	-1.11E+06	1.21E+06
1/10	806.	-2.11E+05	1.68E+05	-2.04E+05	1.51E+05	-2.05E+06	1.50E+06

Table Q-883. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-36.9	-5.40E+03	6.16E+03	-5.26E+03	5.86E+03	-3.14E+05	3.54E+05
1/20	-899.	-5.35E+04	5.03E+04	-5.23E+04	4.86E+04	-1.03E+06	9.91E+05
1/15	-1.75E+03	-9.58E+04	8.67E+04	-9.37E+04	8.26E+04	-1.38E+06	1.27E+06
1/10	-1.75E+03	-2.06E+05	1.48E+05	-2.04E+05	1.44E+05	-2.02E+06	1.46E+06

Table Q-884. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q–885. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-35.1	-5.45E+03	6.02E+03	-5.41E+03	5.93E+03	-3.22E+05	3.58E+05
1/20	-282.	-5.30E+04	5.05E+04	-5.25E+04	4.98E+04	-1.04E+06	1.00E+06
1/15	-145.	-9.51E+04	8.53E+04	-9.42E+04	8.40E+04	-1.41E+06	1.26E+06
1/10	-58.6	-2.03E+05	1.44E+05	-2.02E+05	1.42E+05	-2.02E+06	1.42E+06

Table Q–886. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-35.1	-5.45E+03	6.02E+03	-5.41E+03	5.93E+03	-3.22E+05	3.58E+05
1/20	-282.	-5.30E+04	5.05E+04	-5.25E+04	4.98E+04	-1.04E+06	1.00E+06
1/15	-145.	-9.51E+04	8.53E+04	-9.42E+04	8.40E+04	-1.41E+06	1.26E+06
1/10	-58.6	-2.03E+05	1.44E+05	-2.02E+05	1.42E+05	-2.02E+06	1.42E+06

Table Q–887. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-888. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.47	-5.95E+03	5.85E+03	-5.97E+03	5.61E+03	-3.58E+05	3.37E+05
1/20	281.	-5.33E+04	5.11E+04	-5.36E+04	4.89E+04	-1.08E+06	9.73E+05
1/15	151.	-9.64E+04	8.68E+04	-9.61E+04	8.55E+04	-1.44E+06	1.28E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

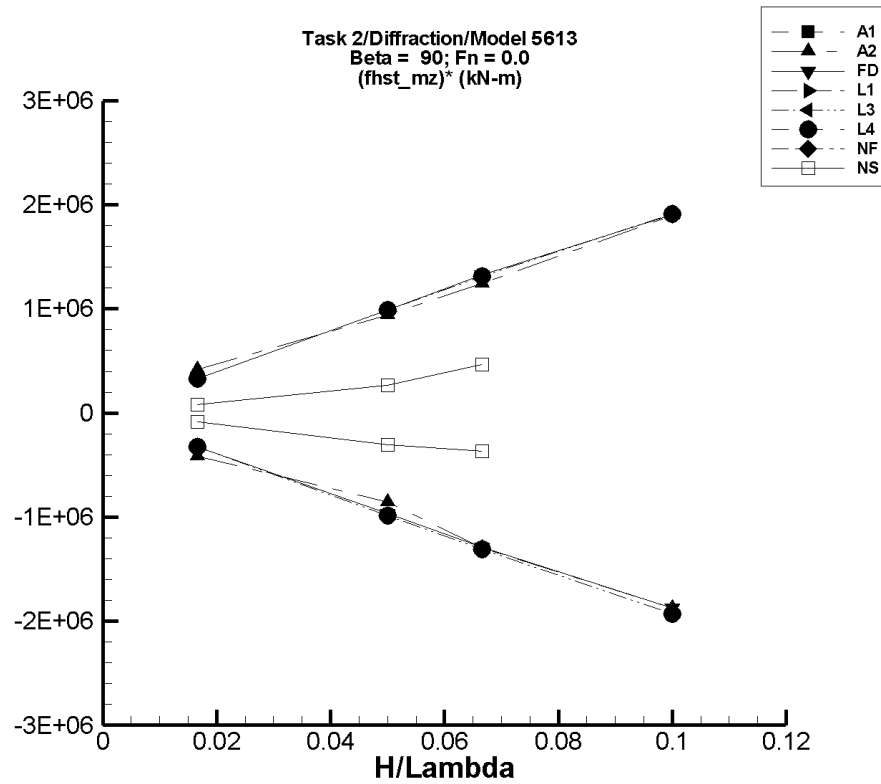


Figure Q-112. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-889. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-890. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.23	-7.59E+03	7.65E+03	-6.94E+03	6.94E+03	-4.17E+05	4.16E+05
1/20	-2.34E+03	-2.64E+05	1.86E+05	-4.51E+04	4.47E+04	-8.55E+05	9.41E+05
1/15	1.80E+03	-1.05E+05	2.10E+05	-8.45E+04	8.49E+04	-1.29E+06	1.25E+06
1/10	-1.12E+03	-3.13E+05	2.41E+05	-1.89E+05	1.88E+05	-1.88E+06	1.89E+06

Table Q–891. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-26.3	-5.77E+03	5.77E+03	-5.47E+03	5.48E+03	-3.27E+05	3.30E+05
1/20	-631.	-5.14E+04	5.14E+04	-4.89E+04	4.90E+04	-9.66E+05	9.92E+05
1/15	-1.28E+03	-9.14E+04	9.14E+04	-8.72E+04	8.73E+04	-1.29E+06	1.33E+06
1/10	-1.21E+03	-2.06E+05	2.05E+05	-1.89E+05	1.89E+05	-1.87E+06	1.90E+06

Table Q–892. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–893. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-3.36E-02	-5.58E+03	5.58E+03	-5.48E+03	5.48E+03	-3.29E+05	3.29E+05
1/20	-78.8	-5.05E+04	5.05E+04	-4.95E+04	4.95E+04	-9.88E+05	9.91E+05
1/15	-191.	-8.90E+04	8.91E+04	-8.74E+04	8.75E+04	-1.31E+06	1.31E+06
1/10	1.08E+03	-1.98E+05	1.98E+05	-1.92E+05	1.92E+05	-1.93E+06	1.91E+06

Table Q–894. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-3.36E-02	-5.58E+03	5.58E+03	-5.48E+03	5.48E+03	-3.29E+05	3.29E+05
1/20	-78.8	-5.05E+04	5.05E+04	-4.95E+04	4.95E+04	-9.88E+05	9.91E+05
1/15	-191.	-8.90E+04	8.91E+04	-8.74E+04	8.75E+04	-1.31E+06	1.31E+06
1/10	1.08E+03	-1.98E+05	1.98E+05	-1.92E+05	1.92E+05	-1.93E+06	1.91E+06

Table Q–895. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–896. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.20	-1.45E+03	1.42E+03	-1.39E+03	1.37E+03	-8.34E+04	8.24E+04
1/20	831.	-1.52E+04	1.48E+04	-1.45E+04	1.42E+04	-3.07E+05	2.67E+05
1/15	1.06E+03	-2.58E+04	3.35E+04	-2.35E+04	3.19E+04	-3.68E+05	4.63E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

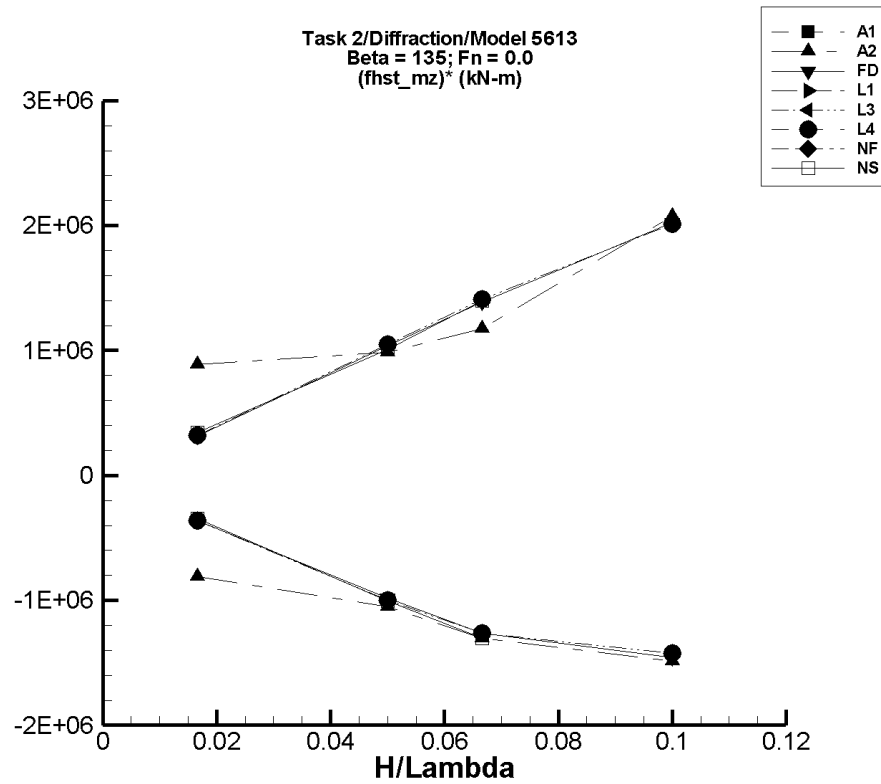


Figure Q-113. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-897. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-898. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-348.	-1.55E+04	1.68E+04	-1.39E+04	1.44E+04	-8.12E+05	8.85E+05
1/20	2.60E+03	-5.18E+04	1.54E+05	-5.00E+04	5.19E+04	-1.05E+06	9.86E+05
1/15	-2.32E+03	-1.95E+05	9.52E+04	-8.94E+04	7.62E+04	-1.31E+06	1.18E+06
1/10	-2.47E+03	-1.60E+05	2.23E+05	-1.51E+05	2.05E+05	-1.49E+06	2.07E+06



Table Q–899. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>
1/60	-12.0	-6.15E+03	5.40E+03	-6.10E+03	5.26E+03	-3.65E+05	3.16E+05
1/20	470.	-5.01E+04	5.34E+04	-4.85E+04	5.22E+04	-9.80E+05	1.04E+06
1/15	1.20E+03	-8.69E+04	9.57E+04	-8.29E+04	9.36E+04	-1.26E+06	1.39E+06
1/10	1.07E+03	-1.48E+05	2.06E+05	-1.45E+05	2.04E+05	-1.46E+06	2.03E+06

Table Q–900. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>	<b>(kN-m)</b>
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-901. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	27.6	-6.02E+03	5.45E+03	-5.98E+03	5.41E+03	-3.60E+05	3.23E+05
1/20	185.	-5.04E+04	5.30E+04	-4.98E+04	5.25E+04	-1.00E+06	1.05E+06
1/15	178.	-8.53E+04	9.51E+04	-8.40E+04	9.42E+04	-1.26E+06	1.41E+06
1/10	369.	-1.44E+05	2.04E+05	-1.42E+05	2.02E+05	-1.42E+06	2.02E+06

Table Q-902. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	27.6	-6.02E+03	5.45E+03	-5.98E+03	5.41E+03	-3.60E+05	3.23E+05
1/20	185.	-5.04E+04	5.30E+04	-4.98E+04	5.25E+04	-1.00E+06	1.05E+06
1/15	178.	-8.53E+04	9.51E+04	-8.40E+04	9.42E+04	-1.26E+06	1.41E+06
1/10	369.	-1.44E+05	2.04E+05	-1.42E+05	2.02E+05	-1.42E+06	2.02E+06

Table Q-903. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-904. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.22	-5.86E+03	5.94E+03	-5.76E+03	5.71E+03	-3.46E+05	3.42E+05
1/20	776.	-5.16E+04	5.32E+04	-4.95E+04	5.13E+04	-1.01E+06	1.01E+06
1/15	654.	-8.86E+04	9.59E+04	-8.62E+04	9.40E+04	-1.30E+06	1.40E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

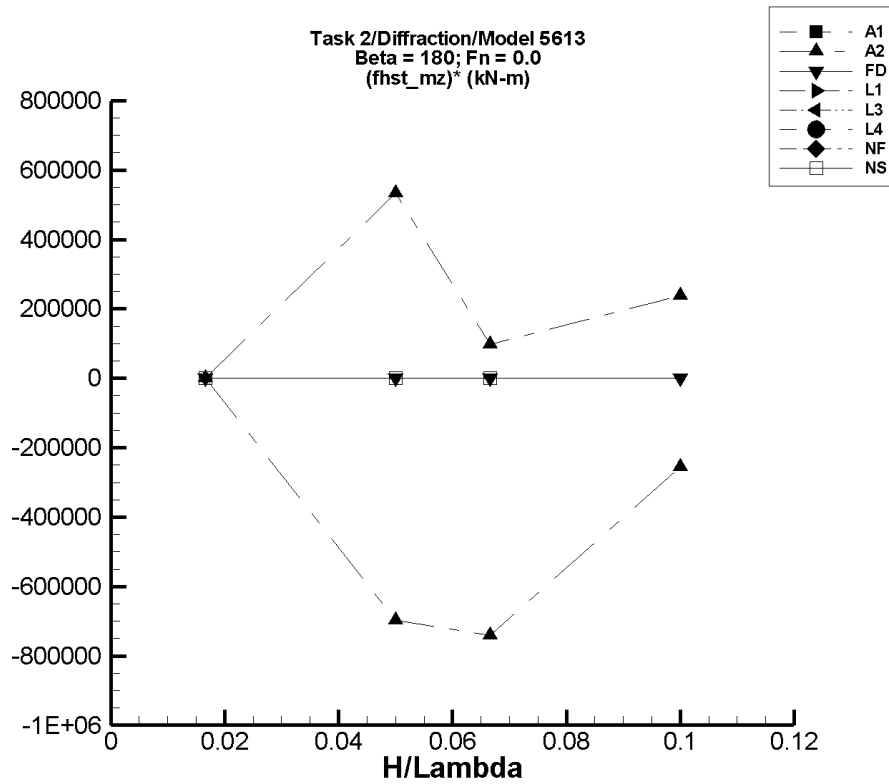


Figure Q-114. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-905. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-906. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.47E-04	-5.63E-03	8.72E-03	-1.35E-03	5.69E-03	-0.108	0.314
1/20	1.62E+03	-2.45E+05	2.12E+05	-3.32E+04	2.83E+04	-6.97E+05	5.34E+05
1/15	-2.15E+03	-3.87E+05	6.22E-02	-5.16E+04	4.41E+03	-7.41E+05	9.85E+04
1/10	948.	-1.78E+05	1.86E+05	-2.46E+04	2.48E+04	-2.55E+05	2.38E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-907. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.59E-04	-6.50E-03	4.50E-03	-2.36E-03	2.09E-03	-0.163	0.104
1/20	8.52E-03	-3.45E-02	0.113	-2.38E-02	4.85E-02	-0.646	0.800
1/15	-1.16E-03	-2.90E-02	4.35E-02	-2.76E-02	2.60E-02	-0.397	0.407
1/10	1.39E-03	-0.118	4.55E-02	-1.57E-02	1.76E-02	-0.171	0.162

Table Q-908. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-909. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-910. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-911. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-912. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.41E-03	-6.58E-02	5.91E-02	-1.45E-02	2.05E-02	-1.13	0.968
1/20	-4.42E-04	-7.75E-02	0.106	-2.37E-02	2.77E-02	-0.464	0.563
1/15	-1.03E-02	-9.09E-02	8.45E-02	-3.49E-02	2.62E-02	-0.369	0.547
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

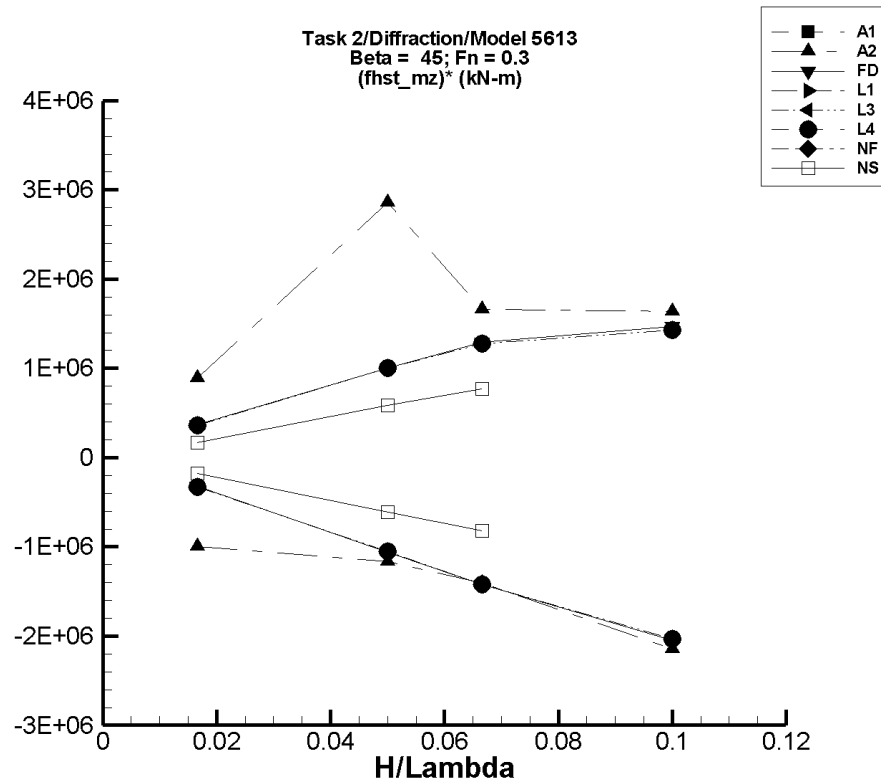


Figure Q-115. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-913. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-914. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	350.	-1.69E+04	1.55E+04	-1.62E+04	1.52E+04	-9.94E+05	8.91E+05
1/20	2.41E+03	-5.60E+04	2.31E+05	-5.58E+04	1.45E+05	-1.17E+06	2.86E+06
1/15	385.	-9.64E+04	2.85E+05	-9.34E+04	1.11E+05	-1.41E+06	1.66E+06
1/10	2.67E+03	-3.90E+05	3.23E+05	-2.12E+05	1.66E+05	-2.14E+06	1.63E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-915. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-20.7	-5.40E+03	6.16E+03	-5.37E+03	6.08E+03	-3.21E+05	3.66E+05
1/20	-173.	-5.35E+04	5.04E+04	-5.30E+04	4.99E+04	-1.06E+06	1.00E+06
1/15	-429.	-9.58E+04	8.67E+04	-9.51E+04	8.58E+04	-1.42E+06	1.29E+06
1/10	-313.	-2.06E+05	1.48E+05	-2.05E+05	1.47E+05	-2.05E+06	1.47E+06

Table Q-916. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-917. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	12.6	-5.45E+03	6.02E+03	-5.44E+03	6.00E+03	-3.27E+05	3.59E+05
1/20	-2.95	-5.31E+04	5.05E+04	-5.28E+04	5.03E+04	-1.06E+06	1.01E+06
1/15	-195.	-9.51E+04	8.53E+04	-9.48E+04	8.52E+04	-1.42E+06	1.28E+06
1/10	407.	-2.04E+05	1.44E+05	-2.03E+05	1.43E+05	-2.03E+06	1.43E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-918. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	12.6	-5.45E+03	6.02E+03	-5.44E+03	6.00E+03	-3.27E+05	3.59E+05
1/20	-2.95	-5.31E+04	5.05E+04	-5.28E+04	5.03E+04	-1.06E+06	1.01E+06
1/15	-195.	-9.51E+04	8.53E+04	-9.48E+04	8.52E+04	-1.42E+06	1.28E+06
1/10	407.	-2.04E+05	1.44E+05	-2.03E+05	1.43E+05	-2.03E+06	1.43E+06

Table Q-919. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-920. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.67	-2.97E+03	2.99E+03	-2.90E+03	2.86E+03	-1.74E+05	1.71E+05
1/20	176.	-3.02E+04	3.04E+04	-3.03E+04	2.95E+04	-6.10E+05	5.86E+05
1/15	425.	-5.38E+04	5.27E+04	-5.41E+04	5.16E+04	-8.18E+05	7.68E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

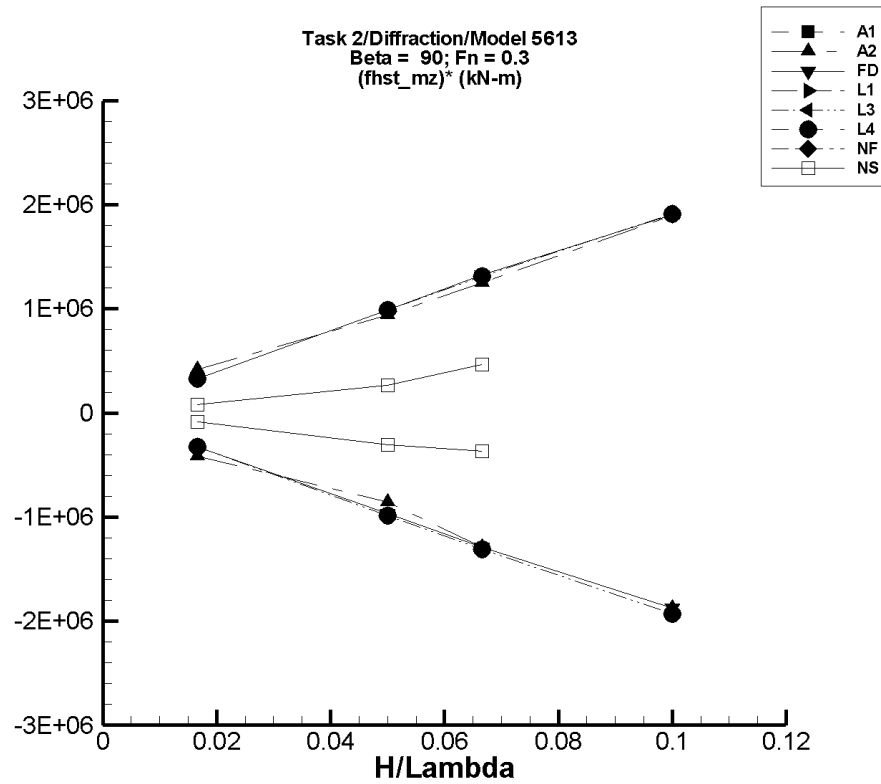


Figure Q-116. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-921. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-922. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.23	-7.59E+03	7.65E+03	-6.94E+03	6.94E+03	-4.17E+05	4.16E+05
1/20	-2.34E+03	-2.64E+05	1.86E+05	-4.51E+04	4.47E+04	-8.55E+05	9.41E+05
1/15	1.36E+03	-1.05E+05	2.10E+05	-8.45E+04	8.49E+04	-1.29E+06	1.25E+06
1/10	-1.12E+03	-3.13E+05	2.41E+05	-1.89E+05	1.88E+05	-1.88E+06	1.89E+06

Table Q-923. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-26.3	-5.77E+03	5.77E+03	-5.47E+03	5.48E+03	-3.27E+05	3.30E+05
1/20	-631.	-5.14E+04	5.14E+04	-4.89E+04	4.90E+04	-9.66E+05	9.92E+05
1/15	-1.28E+03	-9.14E+04	9.14E+04	-8.72E+04	8.73E+04	-1.29E+06	1.33E+06
1/10	-1.21E+03	-2.06E+05	2.05E+05	-1.89E+05	1.89E+05	-1.87E+06	1.90E+06

Table Q-924. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-925. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-5.93E-02	-5.58E+03	5.58E+03	-5.48E+03	5.48E+03	-3.29E+05	3.29E+05
1/20	-78.9	-5.05E+04	5.05E+04	-4.95E+04	4.95E+04	-9.88E+05	9.91E+05
1/15	-191.	-8.90E+04	8.91E+04	-8.74E+04	8.75E+04	-1.31E+06	1.31E+06
1/10	1.08E+03	-1.98E+05	1.98E+05	-1.92E+05	1.92E+05	-1.93E+06	1.91E+06

Table Q-926. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>M_z^{\text{hst}}</math></b>		<b>Filtered <math>(M_z^{\text{hst}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	-5.93E-02	-5.58E+03	5.58E+03	-5.48E+03	5.48E+03	-3.29E+05	3.29E+05
1/20	-78.9	-5.05E+04	5.05E+04	-4.95E+04	4.95E+04	-9.88E+05	9.91E+05
1/15	-191.	-8.90E+04	8.91E+04	-8.74E+04	8.75E+04	-1.31E+06	1.31E+06
1/10	1.08E+03	-1.98E+05	1.98E+05	-1.92E+05	1.92E+05	-1.93E+06	1.91E+06

Table Q-927. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-928. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.20	-1.45E+03	1.42E+03	-1.39E+03	1.37E+03	-8.34E+04	8.24E+04
1/20	831.	-1.52E+04	1.48E+04	-1.45E+04	1.42E+04	-3.07E+05	2.67E+05
1/15	1.06E+03	-2.58E+04	3.35E+04	-2.35E+04	3.19E+04	-3.68E+05	4.63E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

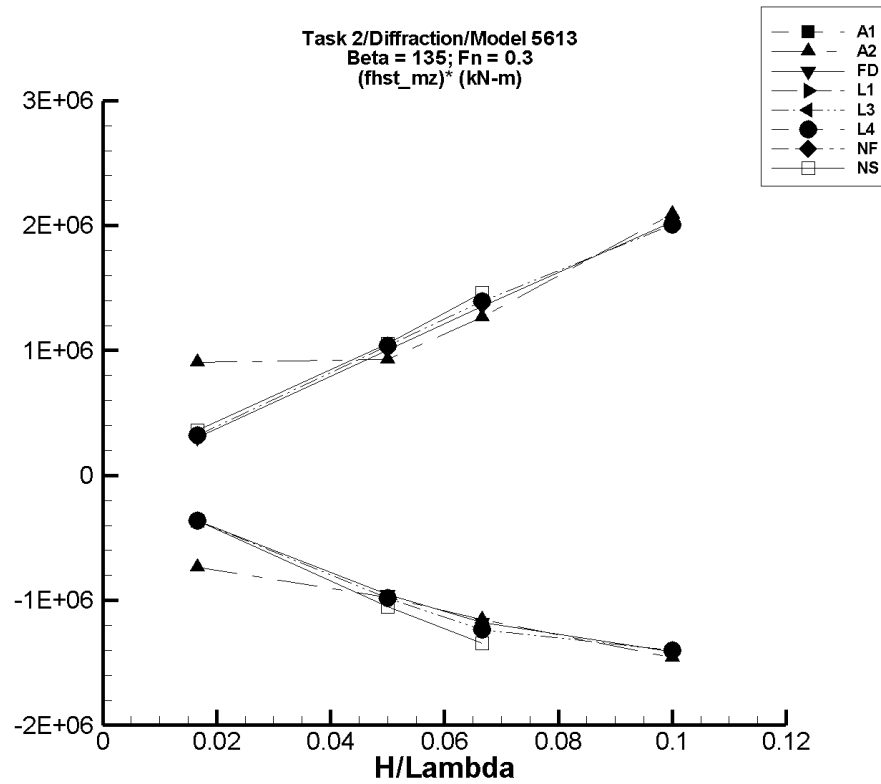


Figure Q-117. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-929. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-930. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	125.	-1.55E+04	1.68E+04	-1.21E+04	1.52E+04	-7.32E+05	9.06E+05
1/20	-778.	-5.20E+04	5.53E+04	-4.94E+04	4.57E+04	-9.73E+05	9.30E+05
1/15	220.	-9.19E+04	9.63E+04	-7.67E+04	8.48E+04	-1.15E+06	1.27E+06
1/10	-2.17E+03	-1.60E+05	2.26E+05	-1.48E+05	2.07E+05	-1.46E+06	2.09E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-931. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	30.7	-6.16E+03	5.40E+03	-6.04E+03	5.06E+03	-3.64E+05	3.02E+05
1/20	595.	-5.03E+04	5.34E+04	-4.69E+04	5.08E+04	-9.50E+05	1.00E+06
1/15	921.	-8.67E+04	9.56E+04	-7.74E+04	9.10E+04	-1.17E+06	1.35E+06
1/10	814.	-1.47E+05	2.05E+05	-1.40E+05	2.04E+05	-1.41E+06	2.03E+06

Table Q-932. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-933. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-15.8	-6.01E+03	5.45E+03	-6.01E+03	5.35E+03	-3.60E+05	3.22E+05
1/20	101.	-5.04E+04	5.30E+04	-4.89E+04	5.20E+04	-9.80E+05	1.04E+06
1/15	73.3	-8.53E+04	9.51E+04	-8.22E+04	9.30E+04	-1.23E+06	1.39E+06
1/10	153.	-1.44E+05	2.03E+05	-1.40E+05	2.01E+05	-1.40E+06	2.01E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-934. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-15.8	-6.01E+03	5.45E+03	-6.01E+03	5.35E+03	-3.60E+05	3.22E+05
1/20	101.	-5.04E+04	5.30E+04	-4.89E+04	5.20E+04	-9.80E+05	1.04E+06
1/15	73.3	-8.53E+04	9.51E+04	-8.22E+04	9.30E+04	-1.23E+06	1.39E+06
1/10	153.	-1.44E+05	2.03E+05	-1.40E+05	2.01E+05	-1.40E+06	2.01E+06

Table Q-935. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-936. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.30	-6.13E+03	6.21E+03	-6.05E+03	5.98E+03	-3.63E+05	3.58E+05
1/20	796.	-5.38E+04	5.55E+04	-5.17E+04	5.36E+04	-1.05E+06	1.06E+06
1/15	629.	-9.14E+04	1.00E+05	-8.90E+04	9.79E+04	-1.35E+06	1.46E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

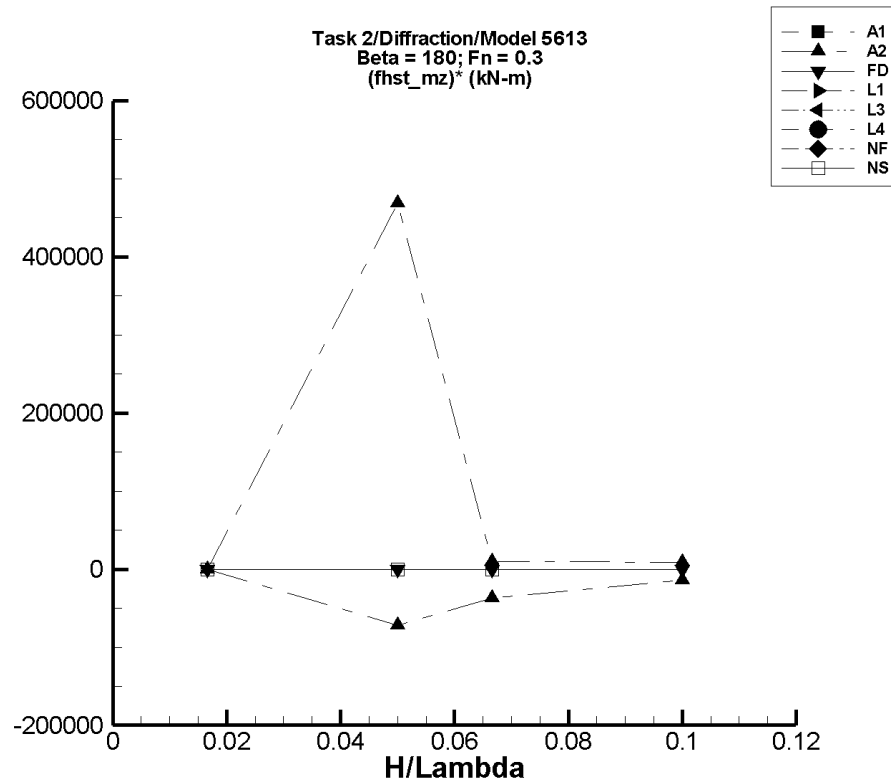


Figure Q-118. Minimum and maximum of filtered  $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-937. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-938. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.69E-04	-5.26E-03	9.20E-03	-1.63E-03	3.12E-03	-0.126	0.159
1/20	1.46E+03	-1.59E-02	1.87E+05	-2.14E+03	2.49E+04	-7.19E+04	4.69E+05
1/15	-386.	-2.12E+04	75.4	-2.83E+03	242.	-3.67E+04	9.41E+03
1/10	-108.	-1.08E+04	5.17E+03	-1.48E+03	784.	-1.38E+04	8.92E+03

TASK 2/DIFFRACTION/MODEL 5613

Table Q-939. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.84E-03	-9.05E-02	0.112	-3.25E-02	4.25E-02	-2.36	2.14
1/20	3.43E-04	-0.467	0.334	-7.12E-02	0.116	-1.43	2.32
1/15	-3.38E-03	-0.887	0.716	-0.110	0.103	-1.61	1.60
1/10	-0.124	-2.64	1.66	-1.30	0.566	-11.7	6.91

Table Q-940. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-941. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-942. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-943. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-944. Minimum and Maximum of Variables  $M_z^{\text{hst}}$  and  $(M_z^{\text{hst}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle M_z^{\text{hst}} \rangle$	Unfiltered $M_z^{\text{hst}}$		Filtered $M_z^{\text{hst}}$		Filtered $(M_z^{\text{hst}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.58E-03	-6.03E-02	4.79E-02	-1.44E-02	2.36E-02	-1.08	1.20
1/20	9.88E-04	-8.15E-02	8.33E-02	-2.86E-02	3.18E-02	-0.591	0.616
1/15	-1.20E-02	-0.117	8.01E-02	-4.68E-02	3.24E-02	-0.521	0.667
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

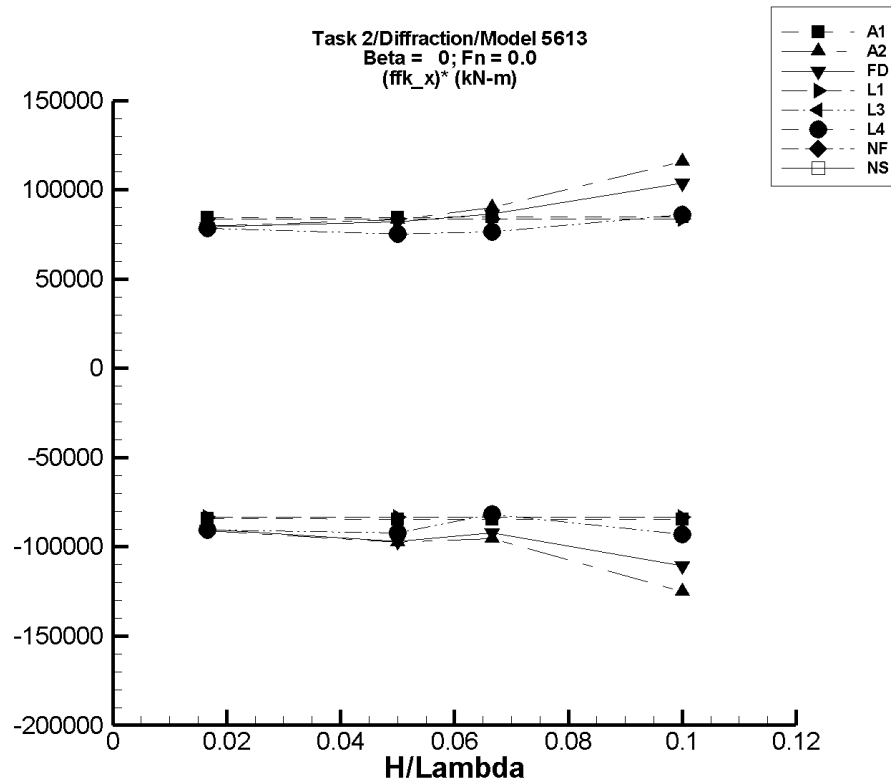


Figure Q-119. Minimum and maximum of filtered  $(F_x^{fk} - \langle F_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-945. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.06	-1.42E+03	1.42E+03	-1.40E+03	1.41E+03	-8.42E+04	8.44E+04
1/20	-3.20	-4.27E+03	4.27E+03	-4.22E+03	4.23E+03	-8.44E+04	8.46E+04
1/15	-4.27	-5.70E+03	5.70E+03	-5.64E+03	5.65E+03	-8.45E+04	8.48E+04
1/10	-6.40	-8.55E+03	8.55E+03	-8.46E+03	8.47E+03	-8.45E+04	8.48E+04

Table Q-946. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.68	-1.54E+03	1.34E+03	-1.52E+03	1.33E+03	-9.11E+04	7.98E+04
1/20	62.4	-5.05E+03	4.31E+03	-4.82E+03	4.23E+03	-9.76E+04	8.33E+04
1/15	107.	-6.39E+03	6.23E+03	-6.26E+03	6.12E+03	-9.55E+04	9.02E+04
1/10	344.	-1.27E+04	1.23E+04	-1.22E+04	1.19E+04	-1.25E+05	1.16E+05

Table Q-947. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.99	-1.53E+03	1.33E+03	-1.50E+03	1.32E+03	-9.04E+04	7.92E+04
1/20	18.4	-5.06E+03	4.18E+03	-4.83E+03	4.12E+03	-9.70E+04	8.20E+04
1/15	17.6	-6.24E+03	5.90E+03	-6.13E+03	5.80E+03	-9.22E+04	8.67E+04
1/10	21.4	-1.13E+04	1.06E+04	-1.11E+04	1.04E+04	-1.11E+05	1.04E+05

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Table Q-948. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.27	-1.40E+03	1.40E+03	-1.39E+03	1.39E+03	-8.35E+04	8.37E+04
1/20	-3.80	-4.20E+03	4.19E+03	-4.18E+03	4.18E+03	-8.35E+04	8.37E+04
1/15	-5.06	-5.59E+03	5.59E+03	-5.57E+03	5.57E+03	-8.35E+04	8.37E+04
1/10	-7.59	-8.39E+03	8.39E+03	-8.36E+03	8.36E+03	-8.35E+04	8.37E+04

Table Q-949. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.426	-1.52E+03	1.31E+03	-1.51E+03	1.31E+03	-9.05E+04	7.83E+04
1/20	12.6	-4.70E+03	3.79E+03	-4.60E+03	3.77E+03	-9.22E+04	7.51E+04
1/15	11.2	-5.48E+03	5.14E+03	-5.44E+03	5.10E+03	-8.17E+04	7.64E+04
1/10	-0.647	-9.39E+03	8.68E+03	-9.30E+03	8.63E+03	-9.30E+04	8.63E+04

Table Q-950. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.426	-1.52E+03	1.31E+03	-1.51E+03	1.31E+03	-9.05E+04	7.83E+04
1/20	12.6	-4.70E+03	3.79E+03	-4.60E+03	3.77E+03	-9.22E+04	7.51E+04
1/15	11.2	-5.48E+03	5.14E+03	-5.44E+03	5.10E+03	-8.17E+04	7.64E+04
1/10	-0.647	-9.39E+03	8.68E+03	-9.30E+03	8.63E+03	-9.30E+04	8.63E+04

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Table Q-951. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-952. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

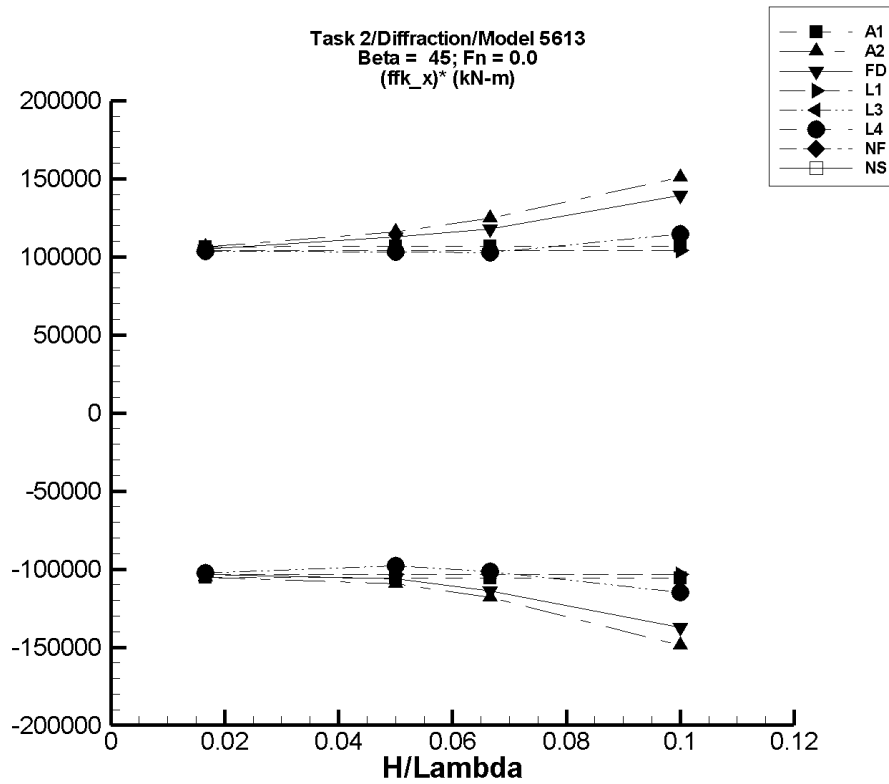


Figure Q-120. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-953. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.40	-1.77E+03	1.77E+03	-1.76E+03	1.77E+03	-1.05E+05	1.06E+05
1/20	-4.20	-5.34E+03	5.34E+03	-5.28E+03	5.33E+03	-1.06E+05	1.07E+05
1/15	-5.61	-7.12E+03	7.12E+03	-7.05E+03	7.11E+03	-1.06E+05	1.07E+05
1/10	-8.42	-1.07E+04	1.07E+04	-1.06E+04	1.07E+04	-1.06E+05	1.07E+05

Table Q-954. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.47	-1.77E+03	1.78E+03	-1.76E+03	1.78E+03	-1.05E+05	1.06E+05
1/20	47.1	-5.49E+03	5.90E+03	-5.42E+03	5.84E+03	-1.09E+05	1.16E+05
1/15	78.5	-7.92E+03	8.45E+03	-7.79E+03	8.38E+03	-1.18E+05	1.24E+05
1/10	115.	-1.51E+04	1.58E+04	-1.48E+04	1.52E+04	-1.49E+05	1.51E+05

Table Q-955. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.10E-02	-1.74E+03	1.77E+03	-1.72E+03	1.75E+03	-1.03E+05	1.05E+05
1/20	-14.9	-5.40E+03	5.69E+03	-5.33E+03	5.62E+03	-1.06E+05	1.13E+05
1/15	-27.2	-7.72E+03	7.93E+03	-7.62E+03	7.82E+03	-1.14E+05	1.18E+05
1/10	-25.7	-1.39E+04	1.41E+04	-1.37E+04	1.39E+04	-1.37E+05	1.39E+05

Table Q-956. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.660	-1.73E+03	1.73E+03	-1.73E+03	1.73E+03	-1.04E+05	1.04E+05
1/20	-1.98	-5.20E+03	5.20E+03	-5.18E+03	5.20E+03	-1.04E+05	1.04E+05
1/15	-2.64	-6.93E+03	6.93E+03	-6.91E+03	6.94E+03	-1.04E+05	1.04E+05
1/10	-3.96	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04	-1.04E+05	1.04E+05

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Table Q-957. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.638	-1.72E+03	1.73E+03	-1.71E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	-9.61	-4.92E+03	5.16E+03	-4.90E+03	5.14E+03	-9.79E+04	1.03E+05
1/15	-3.41	-6.81E+03	6.87E+03	-6.77E+03	6.85E+03	-1.02E+05	1.03E+05
1/10	0.739	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q-958. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.638	-1.72E+03	1.73E+03	-1.71E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	-9.61	-4.92E+03	5.16E+03	-4.90E+03	5.14E+03	-9.79E+04	1.03E+05
1/15	-3.41	-6.81E+03	6.87E+03	-6.77E+03	6.85E+03	-1.02E+05	1.03E+05
1/10	0.739	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q-959. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-960. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

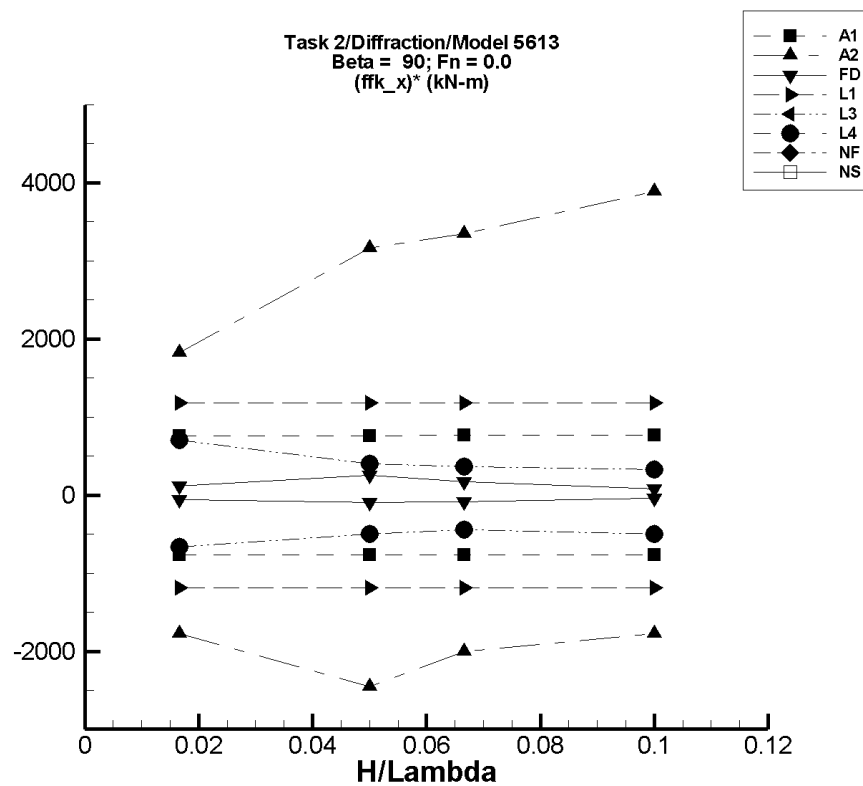


Figure Q-121. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-961. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.10E-03	-12.8	12.8	-12.7	12.7	-761.	761.
1/20	2.44E-02	-38.5	38.6	-38.1	38.2	-763.	763.
1/15	3.25E-02	-51.5	51.5	-50.9	50.9	-764.	764.
1/10	4.88E-02	-77.2	77.2	-76.4	76.4	-764.	764.

Table Q-962. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.82	-27.0	33.5	-26.8	33.2	-1.78E+03	1.83E+03
1/20	50.5	-405.	228.	-72.2	209.	-2.45E+03	3.16E+03
1/15	115.	-61.7	341.	-18.5	338.	-2.01E+03	3.34E+03
1/10	171.	-79.7	618.	-6.44	559.	-1.77E+03	3.89E+03

Table Q-963. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.27	0.131	3.28	0.238	3.20	-62.1	116.
1/20	5.39	-0.780	18.6	0.652	17.9	-94.7	250.
1/15	6.81	-4.21	20.2	0.857	18.0	-89.2	167.
1/10	3.67	-11.4	21.8	-0.616	11.7	-42.9	80.6

TASK 2/DIFFRACTION/MODEL 5613

Table Q-964. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.19E-03	-19.8	19.8	-19.7	19.7	-1.18E+03	1.18E+03
1/20	2.45E-02	-59.3	59.3	-59.1	59.1	-1.18E+03	1.18E+03
1/15	3.27E-02	-79.1	79.1	-78.8	78.8	-1.18E+03	1.18E+03
1/10	4.91E-02	-119.	119.	-118.	118.	-1.18E+03	1.18E+03

Table Q-965. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.673	-10.3	12.5	-10.3	12.4	-660.	704.
1/20	-1.25	-26.9	20.3	-26.4	18.8	-502.	401.
1/15	-5.15	-35.7	20.2	-34.9	18.9	-446.	360.
1/10	-14.5	-102.	22.4	-64.2	17.9	-497.	324.

Table Q-966. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.673	-10.3	12.5	-10.3	12.4	-660.	704.
1/20	-1.25	-26.9	20.3	-26.4	18.8	-502.	401.
1/15	-5.15	-35.7	20.2	-34.9	18.9	-446.	360.
1/10	-14.5	-102.	22.4	-64.2	17.9	-497.	324.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-967. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-968. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

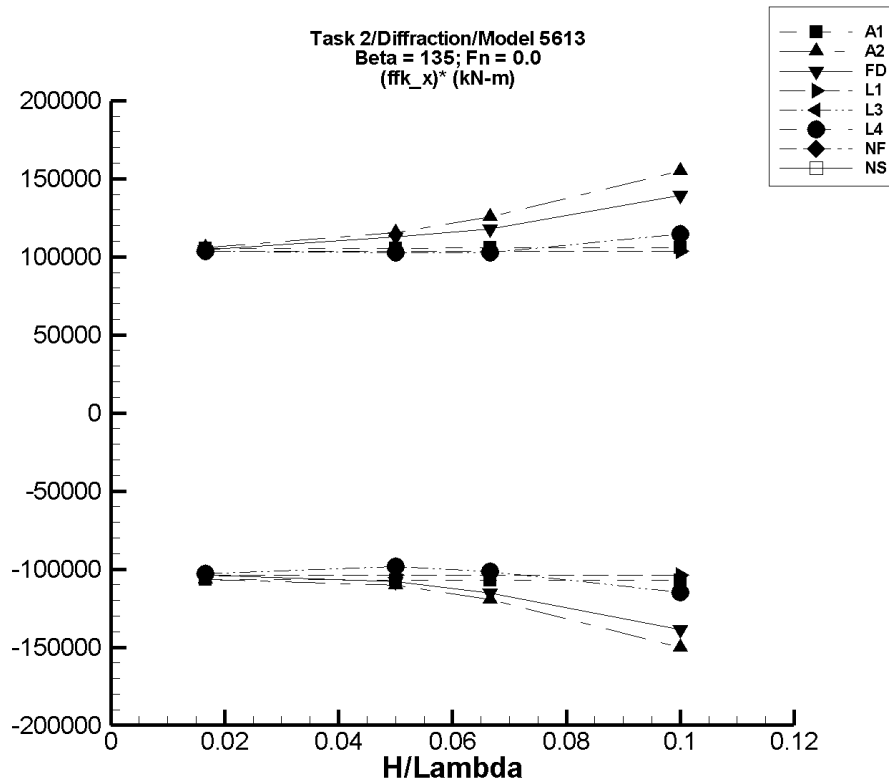


Figure Q-122. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-969. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.45	-1.77E+03	1.77E+03	-1.78E+03	1.76E+03	-1.07E+05	1.05E+05
1/20	4.36	-5.34E+03	5.34E+03	-5.34E+03	5.28E+03	-1.07E+05	1.06E+05
1/15	5.83	-7.12E+03	7.12E+03	-7.13E+03	7.05E+03	-1.07E+05	1.06E+05
1/10	8.74	-1.07E+04	1.07E+04	-1.07E+04	1.06E+04	-1.07E+05	1.06E+05

Table Q-970. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.51	-1.77E+03	1.78E+03	-1.77E+03	1.77E+03	-1.07E+05	1.06E+05
1/20	49.0	-5.49E+03	5.90E+03	-5.48E+03	5.83E+03	-1.10E+05	1.16E+05
1/15	103.	-7.92E+03	9.17E+03	-7.85E+03	8.46E+03	-1.19E+05	1.25E+05
1/10	84.7	-1.51E+04	1.58E+04	-1.50E+04	1.56E+04	-1.50E+05	1.55E+05

Table Q-971. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.97	-1.74E+03	1.77E+03	-1.73E+03	1.75E+03	-1.04E+05	1.05E+05
1/20	-4.54	-5.40E+03	5.69E+03	-5.40E+03	5.62E+03	-1.08E+05	1.13E+05
1/15	-23.1	-7.72E+03	7.93E+03	-7.71E+03	7.83E+03	-1.15E+05	1.18E+05
1/10	-51.5	-1.39E+04	1.41E+04	-1.39E+04	1.39E+04	-1.39E+05	1.40E+05

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Table Q-972. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	1.83	-1.73E+03	1.73E+03	-1.73E+03	1.73E+03	-1.04E+05	1.03E+05
1/20	5.50	-5.20E+03	5.20E+03	-5.19E+03	5.18E+03	-1.04E+05	1.03E+05
1/15	7.33	-6.93E+03	6.93E+03	-6.92E+03	6.91E+03	-1.04E+05	1.03E+05
1/10	11.0	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04	-1.04E+05	1.03E+05

Table Q-973. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	2.08	-1.72E+03	1.73E+03	-1.71E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	0.349	-4.92E+03	5.16E+03	-4.91E+03	5.14E+03	-9.83E+04	1.03E+05
1/15	1.16	-6.81E+03	6.87E+03	-6.77E+03	6.85E+03	-1.02E+05	1.03E+05
1/10	-0.451	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q-974. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>F_x^{\text{fk}}</math></b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	2.08	-1.72E+03	1.73E+03	-1.71E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	0.349	-4.92E+03	5.16E+03	-4.91E+03	5.14E+03	-9.83E+04	1.03E+05
1/15	1.16	-6.81E+03	6.87E+03	-6.77E+03	6.85E+03	-1.02E+05	1.03E+05
1/10	-0.451	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05



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Table Q-975. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-976. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

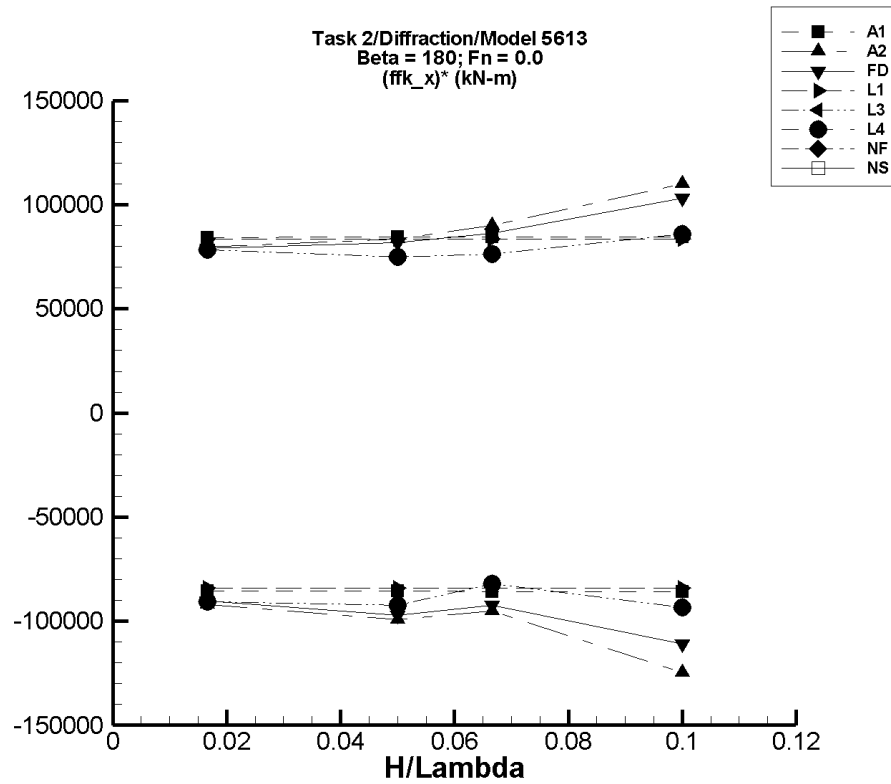


Figure Q-123. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-977. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	1.21	-1.42E+03	1.42E+03	-1.42E+03	1.40E+03	-8.54E+04	8.42E+04
1/20	3.64	-4.27E+03	4.27E+03	-4.28E+03	4.22E+03	-8.56E+04	8.44E+04
1/15	4.85	-5.70E+03	5.70E+03	-5.71E+03	5.64E+03	-8.58E+04	8.45E+04
1/10	7.28	-8.55E+03	8.55E+03	-8.57E+03	8.46E+03	-8.58E+04	8.45E+04

Table Q-978. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	5.07	-1.54E+03	1.34E+03	-1.53E+03	1.33E+03	-9.21E+04	7.97E+04
1/20	57.8	-5.43E+03	4.31E+03	-4.90E+03	4.23E+03	-9.91E+04	8.34E+04
1/15	114.	-6.33E+03	6.23E+03	-6.22E+03	6.12E+03	-9.51E+04	9.02E+04
1/10	296.	-1.26E+04	1.22E+04	-1.22E+04	1.13E+04	-1.25E+05	1.10E+05

Table Q-979. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min. Max.</b> (kN) (kN)		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min. Max.</b> (kN) (kN)	
1/60	2.42	-1.53E+03	1.33E+03	-1.51E+03	1.32E+03	-9.05E+04	7.92E+04
1/20	31.1	-5.06E+03	4.18E+03	-4.83E+03	4.12E+03	-9.72E+04	8.17E+04
1/15	39.5	-6.24E+03	5.90E+03	-6.12E+03	5.80E+03	-9.24E+04	8.64E+04
1/10	51.4	-1.13E+04	1.06E+04	-1.11E+04	1.04E+04	-1.11E+05	1.03E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-980. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.02	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03	-8.41E+04	8.35E+04
1/20	3.06	-4.20E+03	4.20E+03	-4.20E+03	4.18E+03	-8.41E+04	8.35E+04
1/15	4.08	-5.59E+03	5.59E+03	-5.60E+03	5.57E+03	-8.41E+04	8.35E+04
1/10	6.12	-8.39E+03	8.39E+03	-8.40E+03	8.36E+03	-8.41E+04	8.35E+04

Table Q-981. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.54	-1.52E+03	1.31E+03	-1.51E+03	1.31E+03	-9.06E+04	7.82E+04
1/20	27.3	-4.70E+03	3.79E+03	-4.60E+03	3.77E+03	-9.25E+04	7.48E+04
1/15	26.9	-5.48E+03	5.14E+03	-5.44E+03	5.11E+03	-8.19E+04	7.62E+04
1/10	31.0	-9.38E+03	8.68E+03	-9.30E+03	8.63E+03	-9.33E+04	8.60E+04

Table Q-982. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.54	-1.52E+03	1.31E+03	-1.51E+03	1.31E+03	-9.06E+04	7.82E+04
1/20	27.3	-4.70E+03	3.79E+03	-4.60E+03	3.77E+03	-9.25E+04	7.48E+04
1/15	26.9	-5.48E+03	5.14E+03	-5.44E+03	5.11E+03	-8.19E+04	7.62E+04
1/10	31.0	-9.38E+03	8.68E+03	-9.30E+03	8.63E+03	-9.33E+04	8.60E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–983. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–984. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

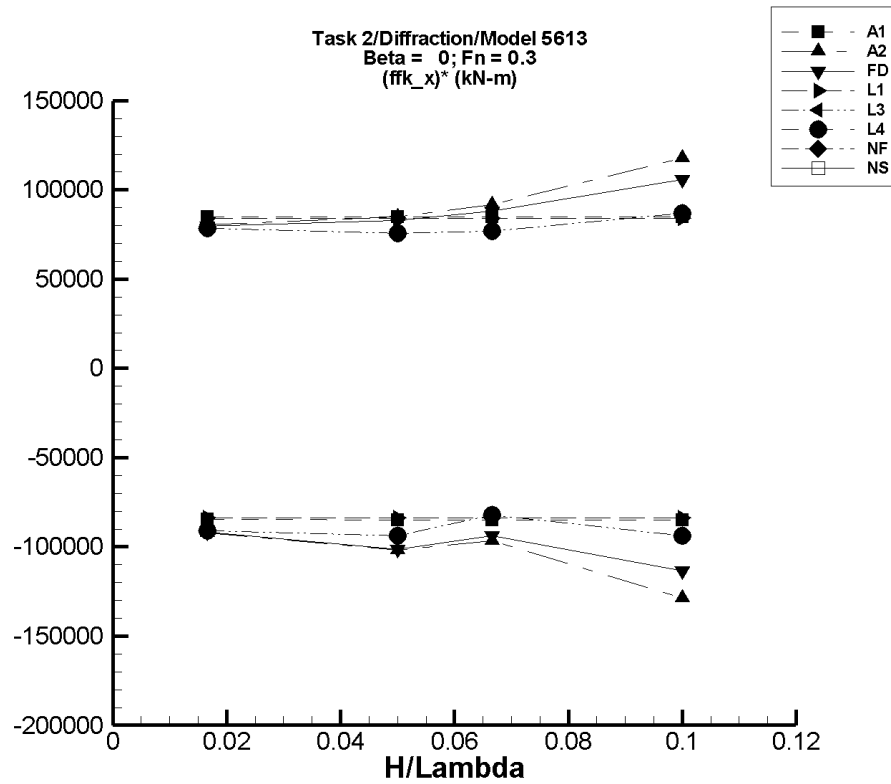


Figure Q-124. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-985. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.31E-02	-1.41E+03	1.41E+03	-1.41E+03	1.41E+03	-8.47E+04	8.47E+04
1/20	-9.90E-02	-4.25E+03	4.25E+03	-4.25E+03	4.25E+03	-8.50E+04	8.50E+04
1/15	-0.132	-5.67E+03	5.67E+03	-5.67E+03	5.67E+03	-8.51E+04	8.51E+04
1/10	-0.198	-8.51E+03	8.51E+03	-8.51E+03	8.51E+03	-8.51E+04	8.51E+04

Table Q-986. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.33	-1.54E+03	1.34E+03	-1.54E+03	1.34E+03	-9.24E+04	8.04E+04
1/20	58.1	-5.05E+03	4.31E+03	-5.04E+03	4.30E+03	-1.02E+05	8.49E+04
1/15	112.	-6.38E+03	6.23E+03	-6.34E+03	6.23E+03	-9.67E+04	9.17E+04
1/10	299.	-1.27E+04	1.23E+04	-1.26E+04	1.21E+04	-1.29E+05	1.18E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-987. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.55	-1.53E+03	1.33E+03	-1.53E+03	1.33E+03	-9.17E+04	7.98E+04
1/20	23.9	-5.06E+03	4.18E+03	-5.05E+03	4.17E+03	-1.01E+05	8.30E+04
1/15	25.4	-6.24E+03	5.90E+03	-6.23E+03	5.89E+03	-9.39E+04	8.80E+04
1/10	40.6	-1.13E+04	1.06E+04	-1.13E+04	1.06E+04	-1.14E+05	1.06E+05

Table Q-988. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.941	-1.40E+03	1.40E+03	-1.40E+03	1.40E+03	-8.38E+04	8.39E+04
1/20	-2.82	-4.20E+03	4.20E+03	-4.19E+03	4.19E+03	-8.38E+04	8.39E+04
1/15	-3.77	-5.59E+03	5.59E+03	-5.59E+03	5.59E+03	-8.38E+04	8.39E+04
1/10	-5.65	-8.39E+03	8.39E+03	-8.39E+03	8.39E+03	-8.38E+04	8.39E+04

Table Q-989. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.912	-1.52E+03	1.31E+03	-1.52E+03	1.31E+03	-9.10E+04	7.85E+04
1/20	7.06	-4.70E+03	3.79E+03	-4.69E+03	3.79E+03	-9.40E+04	7.56E+04
1/15	-2.99	-5.48E+03	5.14E+03	-5.47E+03	5.13E+03	-8.21E+04	7.71E+04
1/10	-7.38	-9.39E+03	8.68E+03	-9.38E+03	8.68E+03	-9.37E+04	8.69E+04



TASK 2/DIFFRACTION/MODEL 5613

Table Q-990. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.912	-1.52E+03	1.31E+03	-1.52E+03	1.31E+03	-9.10E+04	7.85E+04
1/20	7.06	-4.70E+03	3.79E+03	-4.69E+03	3.79E+03	-9.40E+04	7.56E+04
1/15	-2.99	-5.48E+03	5.14E+03	-5.47E+03	5.13E+03	-8.21E+04	7.71E+04
1/10	-7.38	-9.39E+03	8.68E+03	-9.38E+03	8.68E+03	-9.37E+04	8.69E+04

Table Q-991. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-992. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

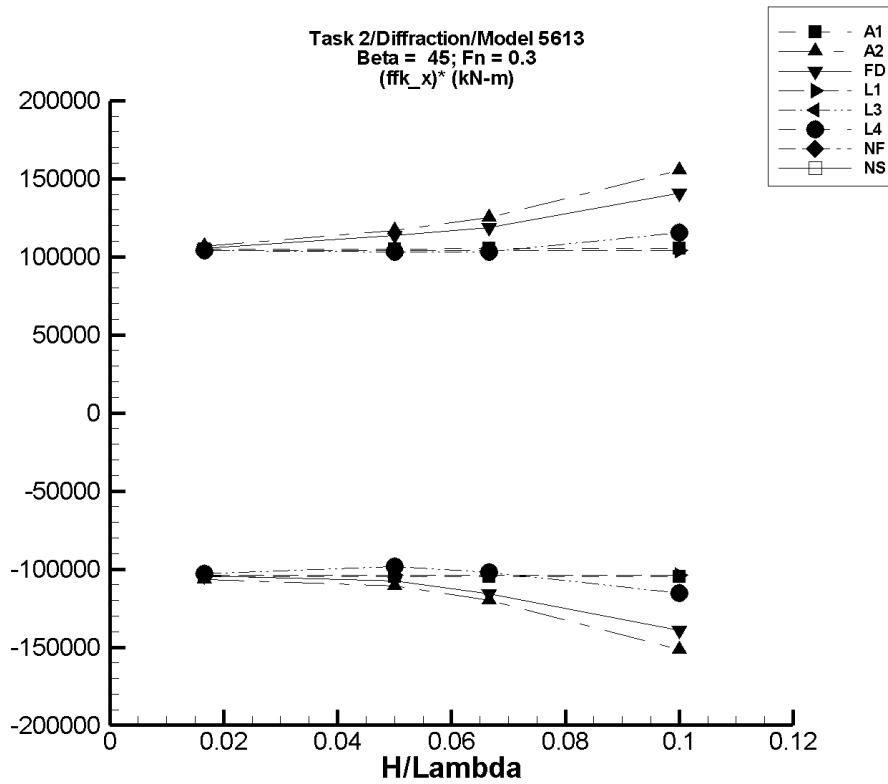


Figure Q-125. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–993. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.424	-1.75E+03	1.75E+03	-1.74E+03	1.75E+03	-1.05E+05	1.05E+05
1/20	1.28	-5.25E+03	5.25E+03	-5.24E+03	5.26E+03	-1.05E+05	1.05E+05
1/15	1.70	-7.01E+03	7.01E+03	-7.00E+03	7.02E+03	-1.05E+05	1.05E+05
1/10	2.56	-1.05E+04	1.05E+04	-1.05E+04	1.05E+04	-1.05E+05	1.05E+05

Table Q–994. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.63	-1.77E+03	1.78E+03	-1.77E+03	1.78E+03	-1.06E+05	1.07E+05
1/20	55.5	-5.49E+03	5.90E+03	-5.47E+03	5.89E+03	-1.11E+05	1.17E+05
1/15	90.8	-7.92E+03	8.45E+03	-7.90E+03	8.44E+03	-1.20E+05	1.25E+05
1/10	108.	-1.51E+04	1.58E+04	-1.51E+04	1.56E+04	-1.52E+05	1.55E+05

Table Q–995. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.15	-1.74E+03	1.77E+03	-1.74E+03	1.76E+03	-1.04E+05	1.06E+05
1/20	3.73	-5.40E+03	5.69E+03	-5.38E+03	5.68E+03	-1.08E+05	1.13E+05
1/15	8.23	-7.72E+03	7.93E+03	-7.70E+03	7.91E+03	-1.16E+05	1.18E+05
1/10	26.1	-1.39E+04	1.42E+04	-1.39E+04	1.41E+04	-1.39E+05	1.41E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-996. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>	
1/60	0.226	-1.73E+03	1.73E+03	-1.73E+03	1.73E+03	-1.04E+05	1.04E+05
1/20	0.679	-5.20E+03	5.20E+03	-5.19E+03	5.20E+03	-1.04E+05	1.04E+05
1/15	0.905	-6.93E+03	6.93E+03	-6.93E+03	6.93E+03	-1.04E+05	1.04E+05
1/10	1.36	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04	-1.04E+05	1.04E+05

Table Q-997. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>	
1/60	1.12	-1.72E+03	1.73E+03	-1.72E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	-0.131	-4.92E+03	5.16E+03	-4.92E+03	5.16E+03	-9.84E+04	1.03E+05
1/15	-6.30	-6.81E+03	6.87E+03	-6.80E+03	6.87E+03	-1.02E+05	1.03E+05
1/10	-17.2	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.16E+05

Table Q-998. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>F_x^{\text{fk}}</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>		<b>Filtered <math>(F_x^{\text{fk}})^*</math></b> <b>Min.      Max.</b> <b>(kN)      (kN)</b>	
1/60	1.12	-1.72E+03	1.73E+03	-1.72E+03	1.73E+03	-1.03E+05	1.04E+05
1/20	-0.131	-4.92E+03	5.16E+03	-4.92E+03	5.16E+03	-9.84E+04	1.03E+05
1/15	-6.30	-6.81E+03	6.87E+03	-6.80E+03	6.87E+03	-1.02E+05	1.03E+05
1/10	-17.2	-1.16E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.16E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–999. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1000. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

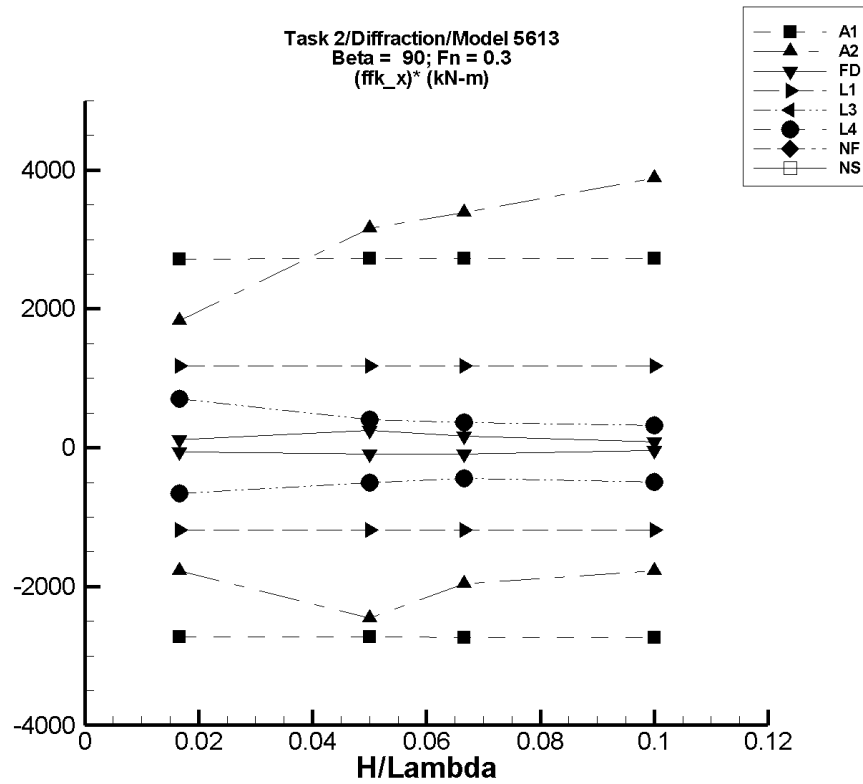


Figure Q-126. Minimum and maximum of filtered  $(F_x^{fk} - \langle F_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1001. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.90E-02	-45.8	45.8	-45.3	45.3	-2.72E+03	2.72E+03
1/20	8.71E-02	-138.	138.	-136.	136.	-2.73E+03	2.73E+03
1/15	0.116	-184.	184.	-182.	182.	-2.73E+03	2.73E+03
1/10	0.174	-276.	276.	-273.	273.	-2.73E+03	2.73E+03

Table Q–1002. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.82	-27.0	33.5	-26.8	33.2	-1.78E+03	1.83E+03
1/20	50.5	-405.	228.	-72.2	209.	-2.45E+03	3.16E+03
1/15	112.	-61.7	340.	-18.1	338.	-1.96E+03	3.39E+03
1/10	171.	-79.7	618.	-6.44	559.	-1.77E+03	3.89E+03

Table Q–1003. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.27	0.131	3.28	0.237	3.20	-62.2	116.
1/20	5.39	-0.781	18.6	0.650	17.9	-94.8	250.
1/15	6.81	-4.21	20.2	0.859	18.0	-89.2	167.
1/10	3.67	-11.4	21.8	-0.617	11.7	-42.9	80.7

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1004. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.18E-03	-19.8	19.8	-19.7	19.7	-1.18E+03	1.18E+03
1/20	2.46E-02	-59.3	59.3	-59.1	59.1	-1.18E+03	1.18E+03
1/15	3.27E-02	-79.1	79.1	-78.8	78.8	-1.18E+03	1.18E+03
1/10	4.91E-02	-119.	119.	-118.	118.	-1.18E+03	1.18E+03

Table Q–1005. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.673	-10.3	12.5	-10.3	12.4	-660.	704.
1/20	-1.25	-26.9	20.3	-26.4	18.8	-502.	401.
1/15	-5.15	-35.7	20.2	-34.9	18.9	-446.	360.
1/10	-14.5	-102.	22.4	-64.2	17.9	-497.	324.

Table Q–1006. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.673	-10.3	12.5	-10.3	12.4	-660.	704.
1/20	-1.25	-26.9	20.3	-26.4	18.8	-502.	401.
1/15	-5.15	-35.7	20.2	-34.9	18.9	-446.	360.
1/10	-14.5	-102.	22.4	-64.2	17.9	-497.	324.



TASK 2/DIFFRACTION/MODEL 5613

Table Q–1007. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1008. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

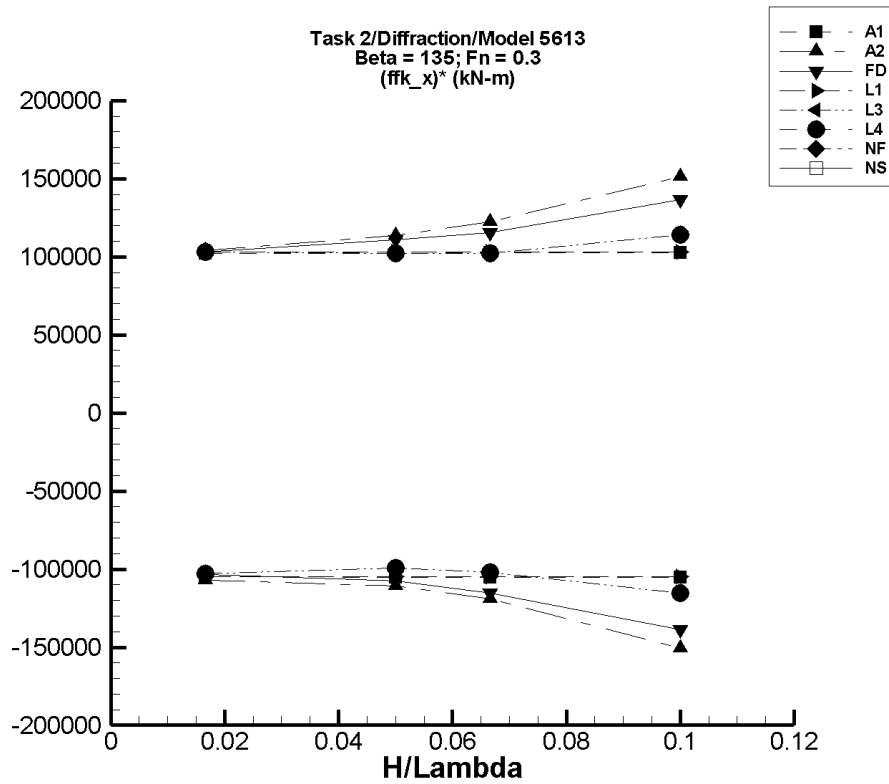


Figure Q-127. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-1009. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.666	-1.75E+03	1.74E+03	-1.75E+03	1.70E+03	-1.05E+05	1.02E+05
1/20	2.00	-5.25E+03	5.25E+03	-5.26E+03	5.12E+03	-1.05E+05	1.02E+05
1/15	2.67	-7.01E+03	7.00E+03	-7.02E+03	6.84E+03	-1.05E+05	1.03E+05
1/10	4.01	-1.05E+04	1.05E+04	-1.05E+04	1.03E+04	-1.05E+05	1.03E+05

Table Q-1010. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.68	-1.77E+03	1.78E+03	-1.78E+03	1.74E+03	-1.07E+05	1.04E+05
1/20	53.9	-5.49E+03	5.90E+03	-5.48E+03	5.74E+03	-1.11E+05	1.14E+05
1/15	97.5	-7.91E+03	8.45E+03	-7.85E+03	8.25E+03	-1.19E+05	1.22E+05
1/10	134.	-1.51E+04	1.58E+04	-1.49E+04	1.53E+04	-1.51E+05	1.51E+05

Table Q-1011. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.696	-1.74E+03	1.76E+03	-1.72E+03	1.72E+03	-1.03E+05	1.03E+05
1/20	-8.47	-5.40E+03	5.69E+03	-5.39E+03	5.53E+03	-1.08E+05	1.11E+05
1/15	-13.9	-7.72E+03	7.93E+03	-7.71E+03	7.70E+03	-1.15E+05	1.16E+05
1/10	-20.9	-1.39E+04	1.41E+04	-1.39E+04	1.37E+04	-1.39E+05	1.37E+05

Table Q–1012. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	8.69E-02	-1.73E+03	1.73E+03	-1.74E+03	1.72E+03	-1.05E+05	1.03E+05
1/20	0.262	-5.20E+03	5.20E+03	-5.23E+03	5.15E+03	-1.05E+05	1.03E+05
1/15	0.349	-6.93E+03	6.93E+03	-6.98E+03	6.87E+03	-1.05E+05	1.03E+05
1/10	0.524	-1.04E+04	1.04E+04	-1.05E+04	1.03E+04	-1.05E+05	1.03E+05

Table Q–1013. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.17	-1.72E+03	1.73E+03	-1.72E+03	1.72E+03	-1.03E+05	1.03E+05
1/20	-4.68	-4.92E+03	5.16E+03	-4.96E+03	5.11E+03	-9.91E+04	1.02E+05
1/15	-16.6	-6.81E+03	6.87E+03	-6.82E+03	6.81E+03	-1.02E+05	1.02E+05
1/10	-49.1	-1.16E+04	1.15E+04	-1.16E+04	1.14E+04	-1.15E+05	1.14E+05

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Table Q-1014. Minimum and Maximum of Variables  $F_x^{fk}$  and  $(F_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{fk} \rangle$	Unfiltered $F_x^{fk}$		Filtered $F_x^{fk}$		Filtered $(F_x^{fk})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.17	-1.72E+03	1.73E+03	-1.72E+03	1.72E+03	-1.03E+05	1.03E+05
1/20	-4.68	-4.92E+03	5.16E+03	-4.96E+03	5.11E+03	-9.91E+04	1.02E+05
1/15	-16.6	-6.81E+03	6.87E+03	-6.82E+03	6.81E+03	-1.02E+05	1.02E+05
1/10	-49.1	-1.16E+04	1.15E+04	-1.16E+04	1.14E+04	-1.15E+05	1.14E+05

Table Q-1015. Minimum and Maximum of Variables  $F_x^{fk}$  and  $(F_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{fk} \rangle$	Unfiltered $F_x^{fk}$		Filtered $F_x^{fk}$		Filtered $(F_x^{fk})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1016. Minimum and Maximum of Variables  $F_x^{fk}$  and  $(F_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{fk} \rangle$	Unfiltered $F_x^{fk}$		Filtered $F_x^{fk}$		Filtered $(F_x^{fk})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

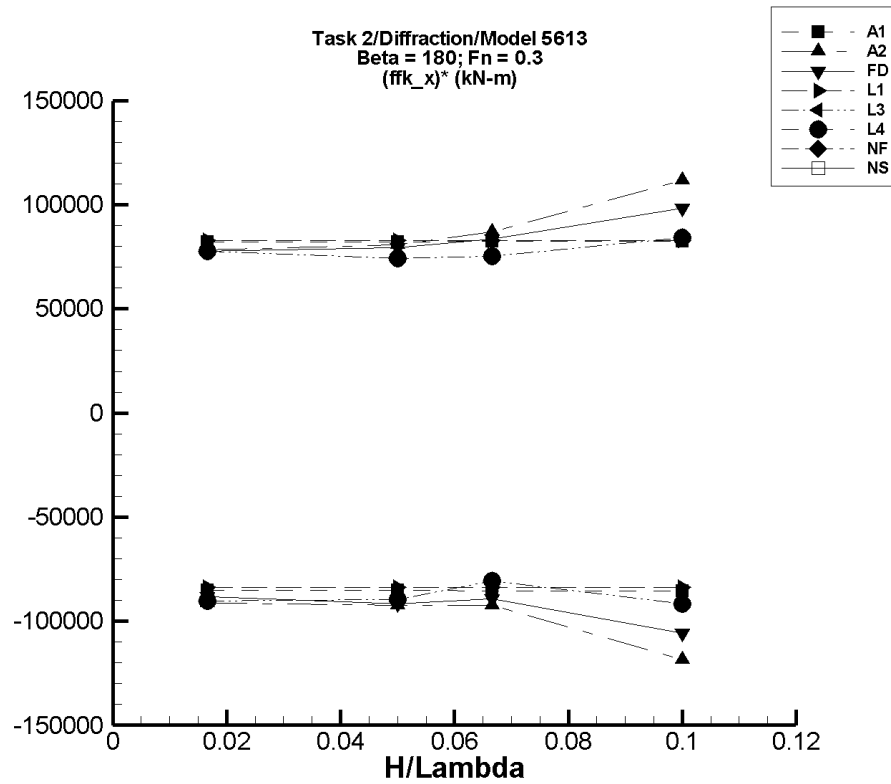


Figure Q-128. Minimum and maximum of filtered  $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-1017. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.13	-1.41E+03	1.41E+03	-1.42E+03	1.37E+03	-8.50E+04	8.20E+04
1/20	3.40	-4.25E+03	4.25E+03	-4.26E+03	4.11E+03	-8.52E+04	8.22E+04
1/15	4.54	-5.67E+03	5.67E+03	-5.69E+03	5.49E+03	-8.54E+04	8.23E+04
1/10	6.80	-8.51E+03	8.50E+03	-8.53E+03	8.24E+03	-8.54E+04	8.23E+04

Table Q-1018. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.06	-1.54E+03	1.34E+03	-1.52E+03	1.31E+03	-9.14E+04	7.83E+04
1/20	56.1	-5.05E+03	4.31E+03	-4.57E+03	4.09E+03	-9.25E+04	8.07E+04
1/15	110.	-6.34E+03	6.23E+03	-6.04E+03	5.90E+03	-9.22E+04	8.68E+04
1/10	352.	-1.26E+04	1.22E+04	-1.15E+04	1.15E+04	-1.19E+05	1.12E+05

Table Q-1019. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.11	-1.53E+03	1.33E+03	-1.47E+03	1.30E+03	-8.83E+04	7.76E+04
1/20	29.6	-5.04E+03	4.17E+03	-4.55E+03	4.00E+03	-9.16E+04	7.94E+04
1/15	33.7	-6.24E+03	5.90E+03	-5.91E+03	5.59E+03	-8.92E+04	8.34E+04
1/10	53.4	-1.13E+04	1.06E+04	-1.05E+04	9.90E+03	-1.06E+05	9.84E+04

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Table Q–1020. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.43	-1.40E+03	1.40E+03	-1.40E+03	1.38E+03	-8.39E+04	8.28E+04
1/20	7.30	-4.20E+03	4.19E+03	-4.19E+03	4.15E+03	-8.39E+04	8.28E+04
1/15	9.73	-5.59E+03	5.59E+03	-5.58E+03	5.53E+03	-8.39E+04	8.28E+04
1/10	14.6	-8.39E+03	8.39E+03	-8.37E+03	8.30E+03	-8.39E+04	8.28E+04

Table Q–1021. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.33	-1.52E+03	1.31E+03	-1.50E+03	1.30E+03	-9.02E+04	7.76E+04
1/20	25.6	-4.69E+03	3.79E+03	-4.45E+03	3.73E+03	-8.95E+04	7.41E+04
1/15	12.7	-5.48E+03	5.14E+03	-5.37E+03	5.04E+03	-8.07E+04	7.54E+04
1/10	30.3	-9.39E+03	8.68E+03	-9.12E+03	8.46E+03	-9.15E+04	8.43E+04

Table Q–1022. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.33	-1.52E+03	1.31E+03	-1.50E+03	1.30E+03	-9.02E+04	7.76E+04
1/20	25.6	-4.69E+03	3.79E+03	-4.45E+03	3.73E+03	-8.95E+04	7.41E+04
1/15	12.7	-5.48E+03	5.14E+03	-5.37E+03	5.04E+03	-8.07E+04	7.54E+04
1/10	30.3	-9.39E+03	8.68E+03	-9.12E+03	8.46E+03	-9.15E+04	8.43E+04



Table Q–1023. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1024. Minimum and Maximum of Variables  $F_x^{\text{fk}}$  and  $(F_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{fk}} \rangle$	Unfiltered $F_x^{\text{fk}}$		Filtered $F_x^{\text{fk}}$		Filtered $(F_x^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

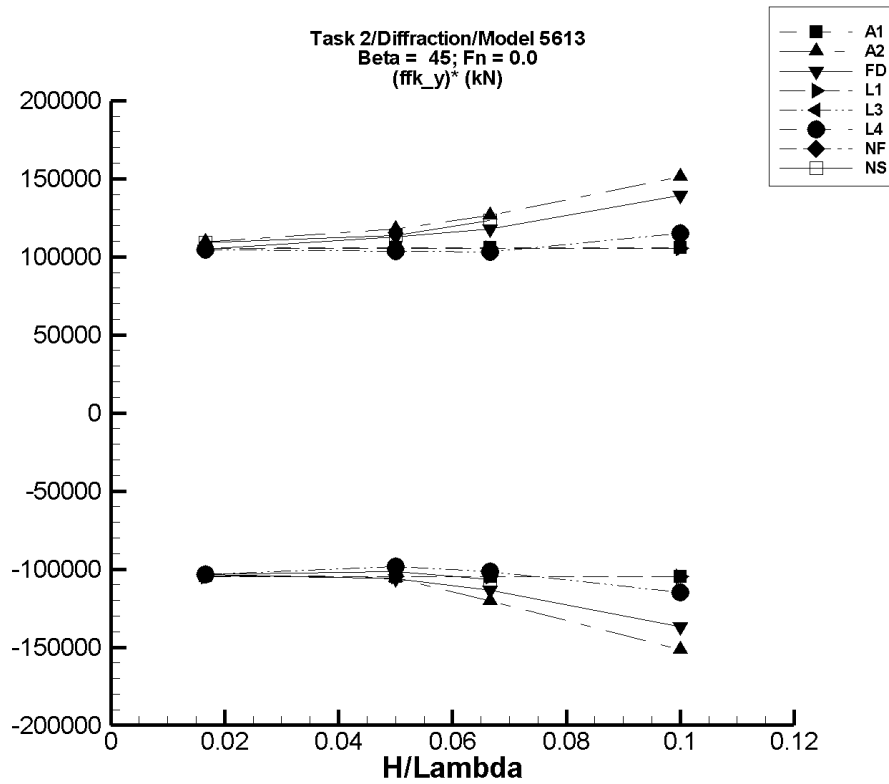


Figure Q-129. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1025. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.38	-1.76E+03	1.76E+03	-1.74E+03	1.76E+03	-1.04E+05	1.05E+05
1/20	-4.15	-5.29E+03	5.29E+03	-5.24E+03	5.28E+03	-1.05E+05	1.06E+05
1/15	-5.54	-7.07E+03	7.07E+03	-7.00E+03	7.05E+03	-1.05E+05	1.06E+05
1/10	-8.30	-1.06E+04	1.06E+04	-1.05E+04	1.06E+04	-1.05E+05	1.06E+05

Table Q-1026. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.37	-1.76E+03	1.84E+03	-1.74E+03	1.82E+03	-1.04E+05	1.09E+05
1/20	-8.00	-5.34E+03	7.62E+03	-5.30E+03	5.89E+03	-1.06E+05	1.18E+05
1/15	-46.3	-8.99E+03	8.50E+03	-8.08E+03	8.39E+03	-1.20E+05	1.27E+05
1/10	395.	-1.50E+04	2.93E+04	-1.48E+04	1.55E+04	-1.52E+05	1.51E+05

Table Q–1027. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.34	-1.74E+03	1.76E+03	-1.72E+03	1.74E+03	-1.03E+05	1.05E+05
1/20	-20.3	-5.39E+03	5.69E+03	-5.33E+03	5.62E+03	-1.06E+05	1.13E+05
1/15	-34.4	-7.74E+03	7.91E+03	-7.61E+03	7.81E+03	-1.14E+05	1.18E+05
1/10	-31.1	-1.40E+04	1.42E+04	-1.37E+04	1.39E+04	-1.37E+05	1.39E+05

Table Q–1028. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.670	-1.75E+03	1.75E+03	-1.75E+03	1.75E+03	-1.05E+05	1.05E+05
1/20	-2.01	-5.25E+03	5.25E+03	-5.24E+03	5.26E+03	-1.05E+05	1.05E+05
1/15	-2.68	-7.01E+03	7.01E+03	-6.98E+03	7.01E+03	-1.05E+05	1.05E+05
1/10	-4.02	-1.05E+04	1.05E+04	-1.05E+04	1.05E+04	-1.05E+05	1.05E+05

Table Q-1029. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.33	-1.73E+03	1.74E+03	-1.72E+03	1.74E+03	-1.03E+05	1.04E+05
1/20	-8.53	-4.94E+03	5.18E+03	-4.92E+03	5.16E+03	-9.82E+04	1.03E+05
1/15	1.64	-6.80E+03	6.91E+03	-6.77E+03	6.88E+03	-1.02E+05	1.03E+05
1/10	14.2	-1.16E+04	1.17E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q-1030. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.33	-1.73E+03	1.74E+03	-1.72E+03	1.74E+03	-1.03E+05	1.04E+05
1/20	-8.53	-4.94E+03	5.18E+03	-4.92E+03	5.16E+03	-9.82E+04	1.03E+05
1/15	1.64	-6.80E+03	6.91E+03	-6.77E+03	6.88E+03	-1.02E+05	1.03E+05
1/10	14.2	-1.16E+04	1.17E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q–1031. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1032. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.72	-1.74E+03	1.82E+03	-1.73E+03	1.81E+03	-1.03E+05	1.09E+05
1/20	-5.77	-5.15E+03	5.74E+03	-5.09E+03	5.67E+03	-1.02E+05	1.13E+05
1/15	21.2	-7.17E+03	8.23E+03	-7.08E+03	8.23E+03	-1.07E+05	1.23E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

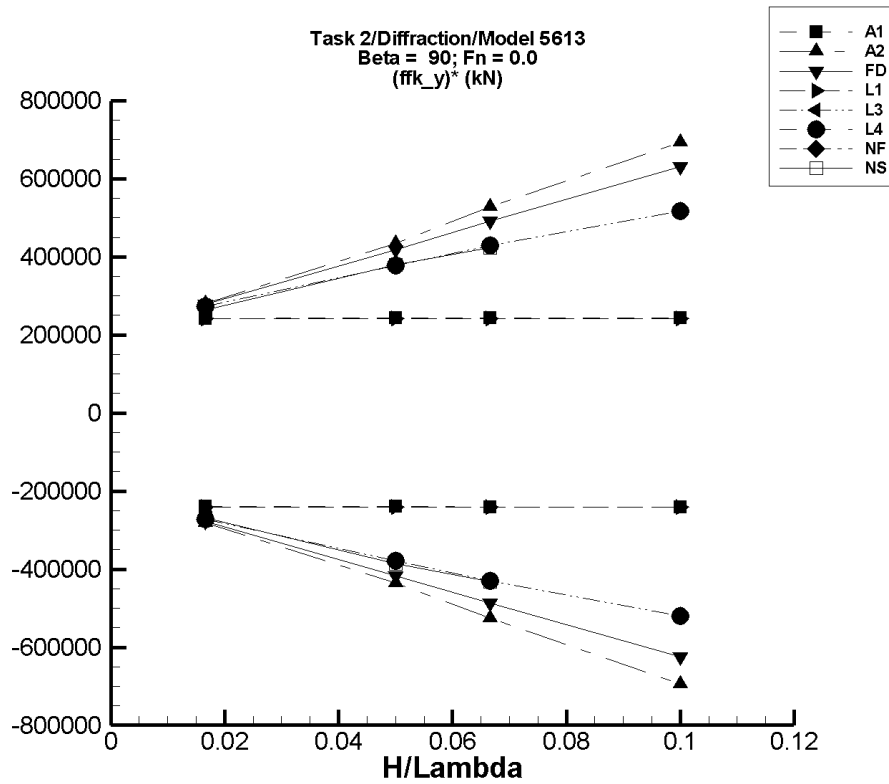


Figure Q-130. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1033. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.24	-4.04E+03	4.04E+03	-4.00E+03	4.04E+03	-2.40E+05	2.42E+05
1/20	-9.75	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04	-2.40E+05	2.43E+05
1/15	-13.0	-1.62E+04	1.62E+04	-1.60E+04	1.62E+04	-2.40E+05	2.43E+05
1/10	-19.5	-2.43E+04	2.43E+04	-2.41E+04	2.43E+04	-2.40E+05	2.43E+05

Table Q–1034. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.89	-4.78E+03	4.77E+03	-4.68E+03	4.68E+03	-2.81E+05	2.81E+05
1/20	44.4	-2.24E+04	2.24E+04	-2.18E+04	2.18E+04	-4.36E+05	4.35E+05
1/15	11.5	-3.63E+04	3.64E+04	-3.50E+04	3.52E+04	-5.26E+05	5.27E+05
1/10	86.4	-7.21E+04	7.20E+04	-6.94E+04	6.94E+04	-6.94E+05	6.94E+05



Table Q–1035. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.61	-4.72E+03	4.72E+03	-4.63E+03	4.64E+03	-2.78E+05	2.78E+05
1/20	-33.8	-2.15E+04	2.15E+04	-2.09E+04	2.09E+04	-4.17E+05	4.19E+05
1/15	-74.3	-3.36E+04	3.36E+04	-3.26E+04	3.27E+04	-4.88E+05	4.91E+05
1/10	-284.	-6.49E+04	6.49E+04	-6.27E+04	6.28E+04	-6.24E+05	6.31E+05

Table Q–1036. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.02	-4.02E+03	4.02E+03	-4.01E+03	4.04E+03	-2.41E+05	2.42E+05
1/20	-3.07	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04	-2.41E+05	2.42E+05
1/15	-4.09	-1.61E+04	1.61E+04	-1.60E+04	1.62E+04	-2.41E+05	2.42E+05
1/10	-6.13	-2.41E+04	2.41E+04	-2.41E+04	2.42E+04	-2.41E+05	2.42E+05

Table Q-1037. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.72E-02	-4.56E+03	4.56E+03	-4.53E+03	4.54E+03	-2.72E+05	2.72E+05
1/20	12.4	-1.91E+04	1.91E+04	-1.89E+04	1.89E+04	-3.79E+05	3.78E+05
1/15	30.4	-2.89E+04	2.89E+04	-2.86E+04	2.86E+04	-4.29E+05	4.28E+05
1/10	152.	-5.24E+04	5.24E+04	-5.18E+04	5.18E+04	-5.19E+05	5.16E+05

Table Q-1038. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.72E-02	-4.56E+03	4.56E+03	-4.53E+03	4.54E+03	-2.72E+05	2.72E+05
1/20	12.4	-1.91E+04	1.91E+04	-1.89E+04	1.89E+04	-3.79E+05	3.78E+05
1/15	30.4	-2.89E+04	2.89E+04	-2.86E+04	2.86E+04	-4.29E+05	4.28E+05
1/10	152.	-5.24E+04	5.24E+04	-5.18E+04	5.18E+04	-5.19E+05	5.16E+05

Table Q–1039. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1040. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.21	-4.56E+03	4.47E+03	-4.48E+03	4.40E+03	-2.69E+05	2.64E+05
1/20	18.1	-1.98E+04	1.95E+04	-1.93E+04	1.90E+04	-3.86E+05	3.79E+05
1/15	80.7	-2.92E+04	2.88E+04	-2.87E+04	2.83E+04	-4.32E+05	4.23E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

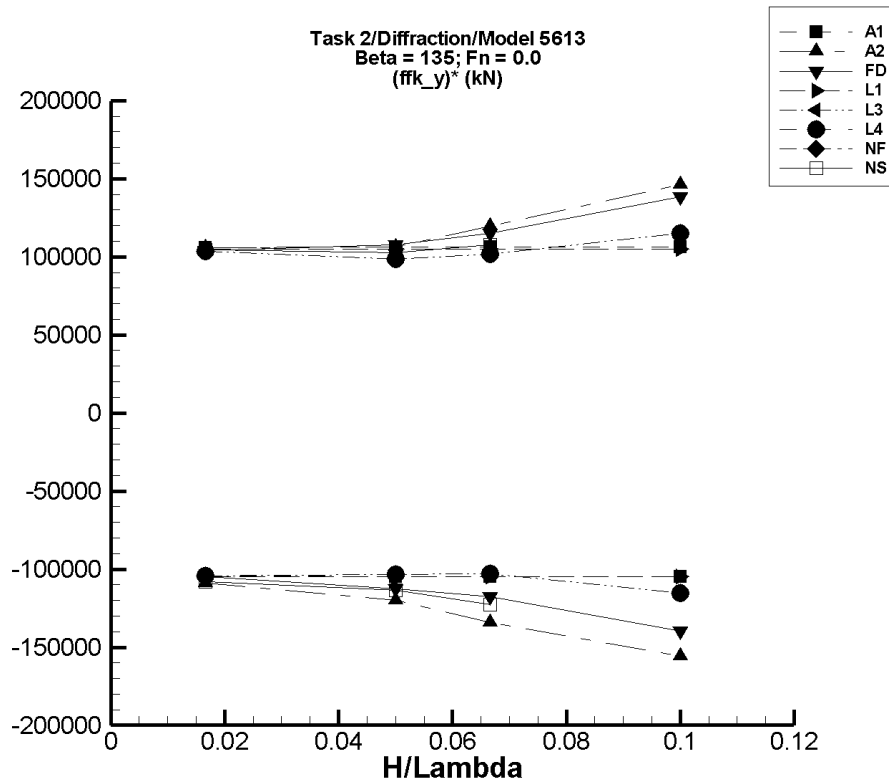


Figure Q-131. Minimum and maximum of filtered  $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1041. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.45	-1.76E+03	1.76E+03	-1.74E+03	1.76E+03	-1.04E+05	1.06E+05
1/20	-4.35	-5.29E+03	5.29E+03	-5.24E+03	5.30E+03	-1.05E+05	1.06E+05
1/15	-5.81	-7.07E+03	7.07E+03	-7.00E+03	7.08E+03	-1.05E+05	1.06E+05
1/10	-8.71	-1.06E+04	1.06E+04	-1.05E+04	1.06E+04	-1.05E+05	1.06E+05

Table Q-1042. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.17	-1.84E+03	1.76E+03	-1.82E+03	1.76E+03	-1.09E+05	1.06E+05
1/20	-9.53	-6.80E+03	5.35E+03	-6.01E+03	5.31E+03	-1.20E+05	1.06E+05
1/15	-83.9	-1.39E+04	8.04E+03	-9.02E+03	7.90E+03	-1.34E+05	1.20E+05
1/10	-14.3	-1.60E+04	1.49E+04	-1.56E+04	1.46E+04	-1.56E+05	1.46E+05

Table Q-1043. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.724	-1.76E+03	1.74E+03	-1.74E+03	1.73E+03	-1.05E+05	1.04E+05
1/20	9.60	-5.69E+03	5.40E+03	-5.62E+03	5.41E+03	-1.13E+05	1.08E+05
1/15	30.4	-7.91E+03	7.74E+03	-7.81E+03	7.71E+03	-1.18E+05	1.15E+05
1/10	54.7	-1.42E+04	1.40E+04	-1.39E+04	1.39E+04	-1.40E+05	1.38E+05

Table Q-1044. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.85	-1.75E+03	1.75E+03	-1.74E+03	1.75E+03	-1.05E+05	1.05E+05
1/20	-5.56	-5.25E+03	5.25E+03	-5.23E+03	5.25E+03	-1.05E+05	1.05E+05
1/15	-7.41	-7.01E+03	7.01E+03	-6.98E+03	6.99E+03	-1.05E+05	1.05E+05
1/10	-11.1	-1.05E+04	1.05E+04	-1.05E+04	1.05E+04	-1.05E+05	1.05E+05

Table Q-1045. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.41	-1.74E+03	1.73E+03	-1.74E+03	1.72E+03	-1.04E+05	1.04E+05
1/20	-1.53	-5.18E+03	4.94E+03	-5.16E+03	4.93E+03	-1.03E+05	9.86E+04
1/15	-6.10	-6.91E+03	6.80E+03	-6.88E+03	6.78E+03	-1.03E+05	1.02E+05
1/10	-13.9	-1.17E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

Table Q-1046. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.41	-1.74E+03	1.73E+03	-1.74E+03	1.72E+03	-1.04E+05	1.04E+05
1/20	-1.53	-5.18E+03	4.94E+03	-5.16E+03	4.93E+03	-1.03E+05	9.86E+04
1/15	-6.10	-6.91E+03	6.80E+03	-6.88E+03	6.78E+03	-1.03E+05	1.02E+05
1/10	-13.9	-1.17E+04	1.16E+04	-1.15E+04	1.15E+04	-1.15E+05	1.15E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1047. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1048. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.63	-1.82E+03	1.74E+03	-1.80E+03	1.74E+03	-1.08E+05	1.05E+05
1/20	5.52	-5.74E+03	5.14E+03	-5.67E+03	5.14E+03	-1.13E+05	1.03E+05
1/15	26.9	-8.23E+03	7.17E+03	-8.15E+03	7.19E+03	-1.23E+05	1.07E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

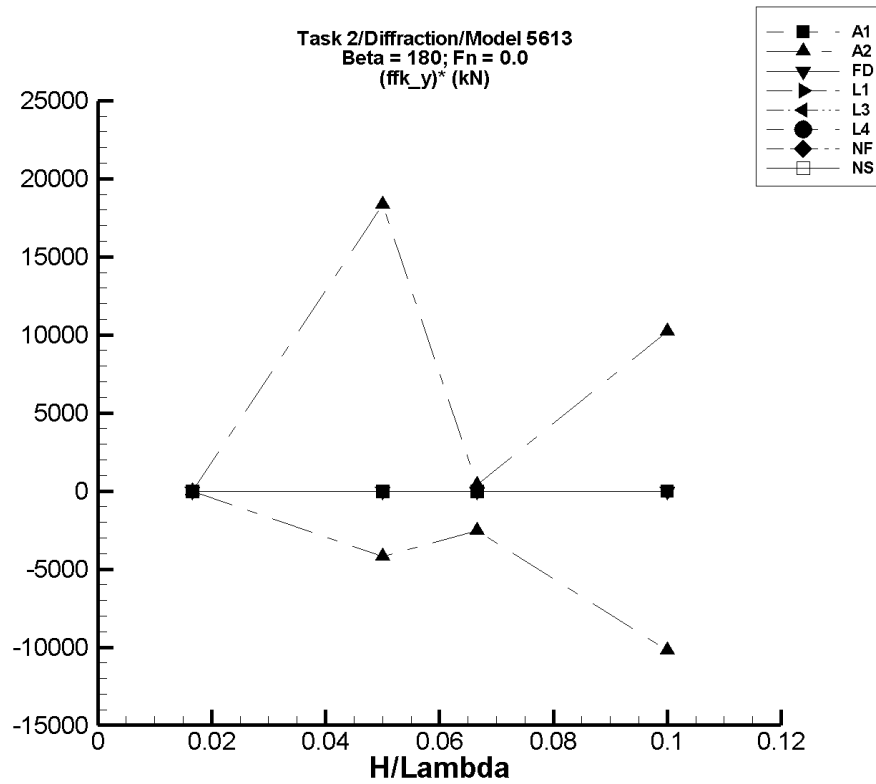


Figure Q-132. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1049. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-7.28E-07	-2.95E-03	2.95E-03	-2.92E-03	2.92E-03	-0.175	0.175
1/20	-2.19E-06	-8.88E-03	8.88E-03	-8.79E-03	8.79E-03	-0.176	0.176
1/15	-2.93E-06	-1.19E-02	1.19E-02	-1.17E-02	1.17E-02	-0.176	0.176
1/10	-4.39E-06	-1.78E-02	1.78E-02	-1.76E-02	1.76E-02	-0.176	0.176

Table Q-1050. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.46E-05	-2.23E-05	8.26E-05	-1.02E-05	5.55E-05	-1.49E-03	2.45E-03
1/20	31.9	-1.21E+03	7.09E+03	-179.	949.	-4.21E+03	1.83E+04
1/15	-11.9	-1.37E+03	5.63E-04	-183.	15.7	-2.56E+03	413.
1/10	-4.03	-7.49E+03	7.47E+03	-1.02E+03	1.02E+03	-1.02E+04	1.02E+04

Table Q–1051. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.26E-05	-1.10E-03	1.22E-03	-2.38E-04	1.96E-04	-1.23E-02	1.37E-02
1/20	-3.15E-03	-1.04E-02	1.45E-02	-9.65E-03	1.66E-03	-0.130	9.61E-02
1/15	-3.32E-03	-1.63E-02	4.83E-03	-1.13E-02	1.54E-03	-0.119	7.30E-02
1/10	-1.47E-03	-1.64E-02	2.26E-02	-6.49E-03	3.61E-03	-5.01E-02	5.08E-02

Table Q–1052. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1053. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1054. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1055. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1056. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.37E-05	-1.19E-03	1.11E-03	-2.80E-04	5.61E-04	-2.00E-02	3.04E-02
1/20	-3.62E-05	-4.77E-03	3.99E-03	-1.96E-03	1.11E-03	-3.85E-02	2.29E-02
1/15	1.22E-04	-5.71E-03	5.84E-03	-1.26E-03	2.12E-03	-2.07E-02	3.00E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

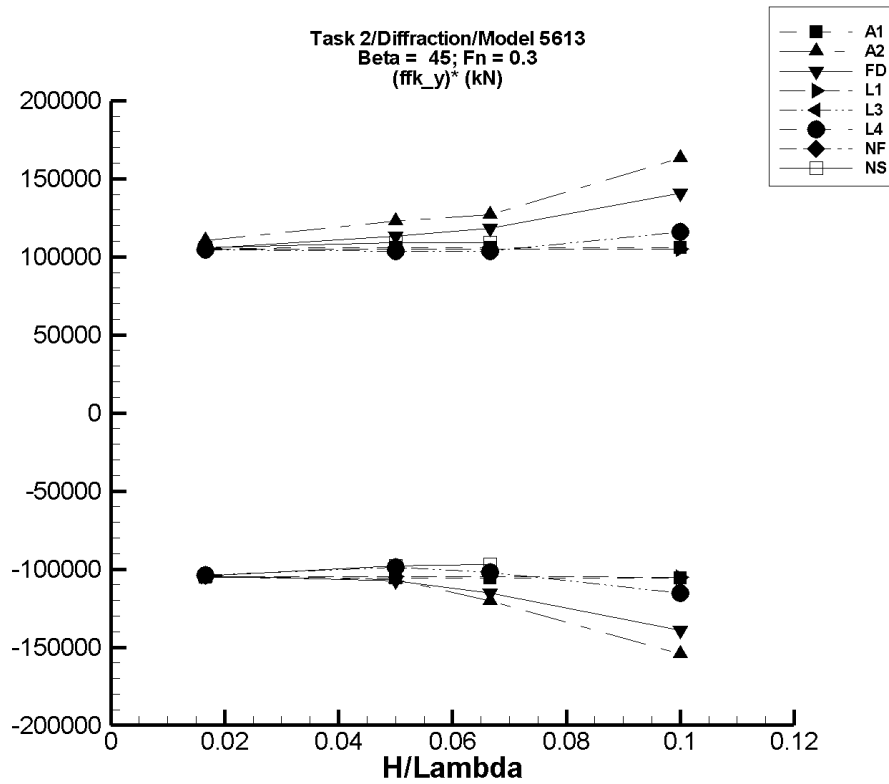


Figure Q-133. Minimum and maximum of filtered  $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1057. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.420	-1.76E+03	1.76E+03	-1.76E+03	1.76E+03	-1.05E+05	1.06E+05
1/20	1.26	-5.29E+03	5.29E+03	-5.28E+03	5.29E+03	-1.06E+05	1.06E+05
1/15	1.69	-7.07E+03	7.07E+03	-7.05E+03	7.07E+03	-1.06E+05	1.06E+05
1/10	2.53	-1.06E+04	1.06E+04	-1.06E+04	1.06E+04	-1.06E+05	1.06E+05

Table Q–1058. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.114	-1.76E+03	1.84E+03	-1.76E+03	1.84E+03	-1.05E+05	1.10E+05
1/20	-0.473	-5.35E+03	7.62E+03	-5.34E+03	6.13E+03	-1.07E+05	1.23E+05
1/15	-4.62	-8.29E+03	8.52E+03	-8.03E+03	8.47E+03	-1.20E+05	1.27E+05
1/10	309.	-1.49E+04	3.20E+04	-1.51E+04	1.67E+04	-1.54E+05	1.63E+05

Table Q–1059. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.169	-1.74E+03	1.76E+03	-1.74E+03	1.76E+03	-1.04E+05	1.05E+05
1/20	-1.73	-5.40E+03	5.69E+03	-5.38E+03	5.67E+03	-1.08E+05	1.13E+05
1/15	1.12	-7.74E+03	7.92E+03	-7.70E+03	7.89E+03	-1.15E+05	1.18E+05
1/10	21.3	-1.40E+04	1.42E+04	-1.39E+04	1.41E+04	-1.39E+05	1.41E+05

Table Q–1060. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.228	-1.75E+03	1.75E+03	-1.75E+03	1.75E+03	-1.05E+05	1.05E+05
1/20	0.684	-5.25E+03	5.25E+03	-5.25E+03	5.25E+03	-1.05E+05	1.05E+05
1/15	0.911	-7.01E+03	7.01E+03	-7.00E+03	7.00E+03	-1.05E+05	1.05E+05
1/10	1.37	-1.05E+04	1.05E+04	-1.05E+04	1.05E+04	-1.05E+05	1.05E+05



Table Q-1061. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.449	-1.73E+03	1.74E+03	-1.73E+03	1.74E+03	-1.04E+05	1.05E+05
1/20	1.10	-4.94E+03	5.18E+03	-4.93E+03	5.18E+03	-9.87E+04	1.04E+05
1/15	-1.05	-6.80E+03	6.91E+03	-6.80E+03	6.90E+03	-1.02E+05	1.03E+05
1/10	-2.79	-1.16E+04	1.17E+04	-1.15E+04	1.16E+04	-1.15E+05	1.16E+05

Table Q-1062. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.449	-1.73E+03	1.74E+03	-1.73E+03	1.74E+03	-1.04E+05	1.05E+05
1/20	1.10	-4.94E+03	5.18E+03	-4.93E+03	5.18E+03	-9.87E+04	1.04E+05
1/15	-1.05	-6.80E+03	6.91E+03	-6.80E+03	6.90E+03	-1.02E+05	1.03E+05
1/10	-2.79	-1.16E+04	1.17E+04	-1.15E+04	1.16E+04	-1.15E+05	1.16E+05

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Table Q–1063. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1064. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.73	-1.75E+03	1.78E+03	-1.73E+03	1.77E+03	-1.04E+05	1.06E+05
1/20	54.8	-4.90E+03	5.56E+03	-4.85E+03	5.51E+03	-9.80E+04	1.09E+05
1/15	86.0	-6.43E+03	7.41E+03	-6.39E+03	7.36E+03	-9.72E+04	1.09E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

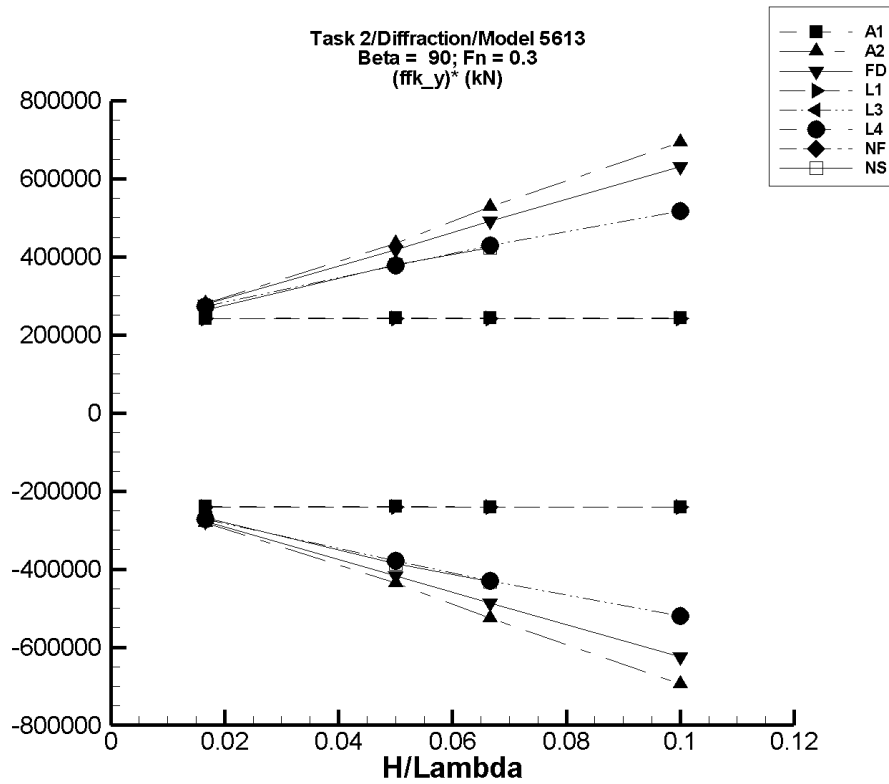


Figure Q-134. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1065. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.24	-4.04E+03	4.04E+03	-4.00E+03	4.04E+03	-2.40E+05	2.42E+05
1/20	-9.75	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04	-2.40E+05	2.43E+05
1/15	-13.0	-1.62E+04	1.62E+04	-1.60E+04	1.62E+04	-2.40E+05	2.43E+05
1/10	-19.5	-2.43E+04	2.43E+04	-2.41E+04	2.43E+04	-2.40E+05	2.43E+05

Table Q–1066. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.89	-4.78E+03	4.77E+03	-4.68E+03	4.68E+03	-2.81E+05	2.81E+05
1/20	44.4	-2.24E+04	2.24E+04	-2.18E+04	2.18E+04	-4.36E+05	4.35E+05
1/15	0.190	-3.63E+04	3.64E+04	-3.50E+04	3.52E+04	-5.26E+05	5.27E+05
1/10	86.4	-7.21E+04	7.20E+04	-6.94E+04	6.94E+04	-6.94E+05	6.94E+05

Table Q–1067. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-2.61	-4.72E+03	4.72E+03	-4.63E+03	4.64E+03	-2.78E+05	2.78E+05
1/20	-33.8	-2.15E+04	2.15E+04	-2.09E+04	2.09E+04	-4.17E+05	4.19E+05
1/15	-74.3	-3.36E+04	3.36E+04	-3.26E+04	3.27E+04	-4.88E+05	4.91E+05
1/10	-284.	-6.49E+04	6.49E+04	-6.27E+04	6.28E+04	-6.24E+05	6.31E+05

Table Q–1068. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-1.02	-4.02E+03	4.02E+03	-4.01E+03	4.04E+03	-2.41E+05	2.42E+05
1/20	-3.07	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04	-2.41E+05	2.42E+05
1/15	-4.09	-1.61E+04	1.61E+04	-1.60E+04	1.62E+04	-2.41E+05	2.42E+05
1/10	-6.13	-2.41E+04	2.41E+04	-2.41E+04	2.42E+04	-2.41E+05	2.42E+05

Table Q-1069. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	1.82E-02	-4.56E+03	4.56E+03	-4.53E+03	4.54E+03	-2.72E+05	2.72E+05
1/20	12.4	-1.91E+04	1.91E+04	-1.89E+04	1.89E+04	-3.79E+05	3.78E+05
1/15	30.4	-2.89E+04	2.89E+04	-2.86E+04	2.86E+04	-4.29E+05	4.28E+05
1/10	152.	-5.24E+04	5.24E+04	-5.18E+04	5.18E+04	-5.19E+05	5.16E+05

Table Q-1070. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	1.82E-02	-4.56E+03	4.56E+03	-4.53E+03	4.54E+03	-2.72E+05	2.72E+05
1/20	12.4	-1.91E+04	1.91E+04	-1.89E+04	1.89E+04	-3.79E+05	3.78E+05
1/15	30.4	-2.89E+04	2.89E+04	-2.86E+04	2.86E+04	-4.29E+05	4.28E+05
1/10	152.	-5.24E+04	5.24E+04	-5.18E+04	5.18E+04	-5.19E+05	5.16E+05

Table Q–1071. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1072. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.21	-4.56E+03	4.47E+03	-4.48E+03	4.40E+03	-2.69E+05	2.64E+05
1/20	18.1	-1.98E+04	1.95E+04	-1.93E+04	1.90E+04	-3.86E+05	3.79E+05
1/15	80.7	-2.92E+04	2.88E+04	-2.87E+04	2.83E+04	-4.32E+05	4.23E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

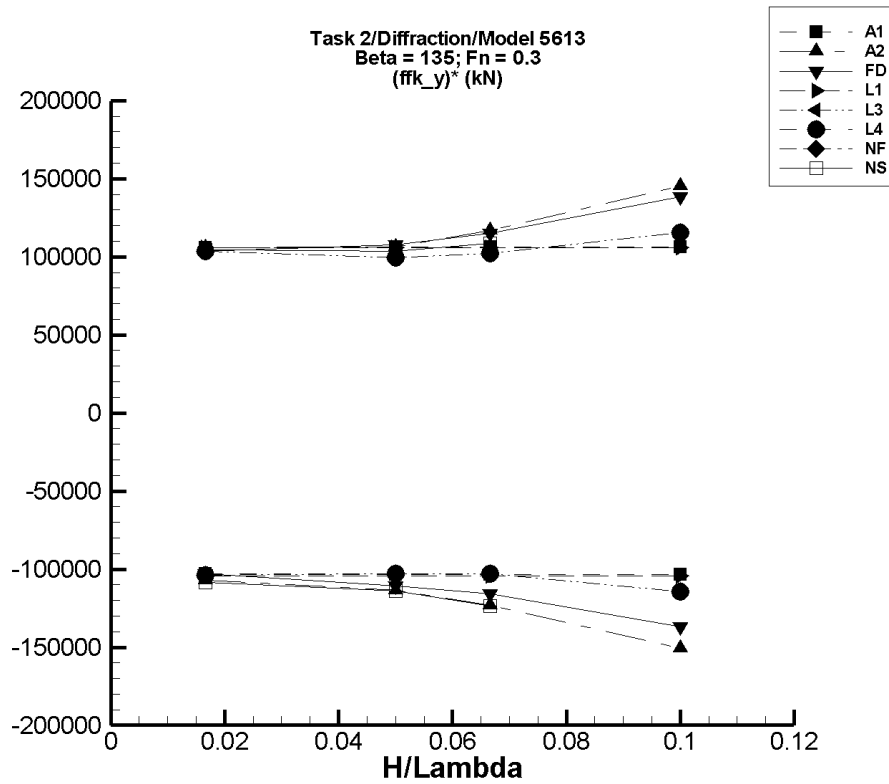


Figure Q-135. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1073. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.683	-1.76E+03	1.76E+03	-1.72E+03	1.77E+03	-1.03E+05	1.06E+05
1/20	-2.06	-5.29E+03	5.29E+03	-5.17E+03	5.31E+03	-1.03E+05	1.06E+05
1/15	-2.74	-7.06E+03	7.07E+03	-6.90E+03	7.09E+03	-1.03E+05	1.06E+05
1/10	-4.12	-1.06E+04	1.06E+04	-1.03E+04	1.06E+04	-1.03E+05	1.06E+05

Table Q-1074. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.898	-1.84E+03	1.76E+03	-1.79E+03	1.76E+03	-1.07E+05	1.06E+05
1/20	-2.60	-6.20E+03	5.34E+03	-5.68E+03	5.30E+03	-1.14E+05	1.06E+05
1/15	-3.00	-8.48E+03	8.04E+03	-8.23E+03	7.80E+03	-1.23E+05	1.17E+05
1/10	20.2	-1.58E+04	1.49E+04	-1.50E+04	1.45E+04	-1.50E+05	1.45E+05

Table Q-1075. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.597	-1.76E+03	1.74E+03	-1.72E+03	1.72E+03	-1.03E+05	1.03E+05
1/20	13.1	-5.69E+03	5.40E+03	-5.53E+03	5.39E+03	-1.11E+05	1.08E+05
1/15	23.3	-7.91E+03	7.74E+03	-7.68E+03	7.70E+03	-1.16E+05	1.15E+05
1/10	32.0	-1.42E+04	1.40E+04	-1.37E+04	1.39E+04	-1.37E+05	1.38E+05

Table Q-1076. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-8.81E-02	-1.75E+03	1.75E+03	-1.74E+03	1.76E+03	-1.04E+05	1.06E+05
1/20	-0.266	-5.25E+03	5.25E+03	-5.21E+03	5.29E+03	-1.04E+05	1.06E+05
1/15	-0.353	-7.01E+03	7.01E+03	-6.95E+03	7.06E+03	-1.04E+05	1.06E+05
1/10	-0.532	-1.05E+04	1.05E+04	-1.04E+04	1.06E+04	-1.04E+05	1.06E+05

Table Q-1077. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.506	-1.74E+03	1.73E+03	-1.73E+03	1.73E+03	-1.04E+05	1.04E+05
1/20	3.32	-5.18E+03	4.94E+03	-5.14E+03	4.98E+03	-1.03E+05	9.95E+04
1/15	11.6	-6.91E+03	6.80E+03	-6.84E+03	6.83E+03	-1.03E+05	1.02E+05
1/10	33.6	-1.16E+04	1.16E+04	-1.14E+04	1.16E+04	-1.15E+05	1.15E+05

Table Q-1078. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	<b>Unfiltered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>F_y^{\text{fk}}</math></b>		<b>Filtered <math>(F_y^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.506	-1.74E+03	1.73E+03	-1.73E+03	1.73E+03	-1.04E+05	1.04E+05
1/20	3.32	-5.18E+03	4.94E+03	-5.14E+03	4.98E+03	-1.03E+05	9.95E+04
1/15	11.6	-6.91E+03	6.80E+03	-6.84E+03	6.83E+03	-1.03E+05	1.02E+05
1/10	33.6	-1.16E+04	1.16E+04	-1.14E+04	1.16E+04	-1.15E+05	1.15E+05

Table Q–1079. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1080. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-5.70	-1.83E+03	1.74E+03	-1.81E+03	1.74E+03	-1.08E+05	1.05E+05
1/20	-11.3	-5.79E+03	5.16E+03	-5.71E+03	5.16E+03	-1.14E+05	1.03E+05
1/15	11.2	-8.32E+03	7.23E+03	-8.24E+03	7.24E+03	-1.24E+05	1.08E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

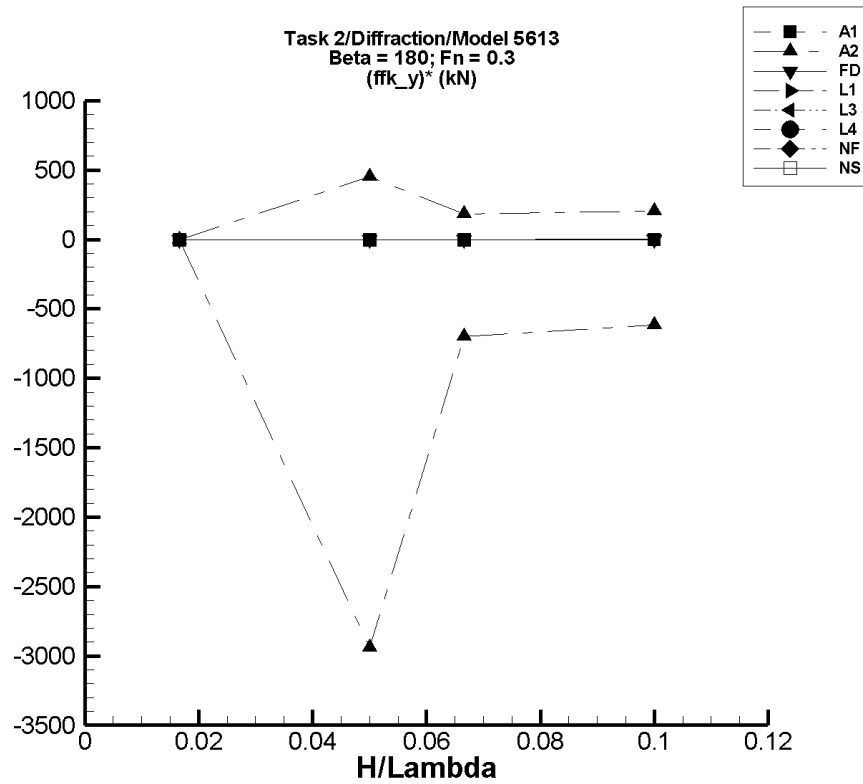


Figure Q-136. Minimum and maximum of filtered  $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1081. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.90E-06	-2.95E-03	2.95E-03	-2.86E-03	2.89E-03	-0.172	0.173
1/20	-5.70E-06	-8.88E-03	8.87E-03	-8.61E-03	8.68E-03	-0.172	0.174
1/15	-7.61E-06	-1.19E-02	1.18E-02	-1.15E-02	1.16E-02	-0.172	0.174
1/10	-1.14E-05	-1.78E-02	1.78E-02	-1.72E-02	1.74E-02	-0.172	0.174

Table Q–1082. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.48E-05	-2.12E-05	7.82E-05	-6.69E-06	3.28E-05	-1.29E-03	1.08E-03
1/20	-9.14	-1.17E+03	2.99E-04	-156.	13.4	-2.94E+03	451.
1/15	-7.72	-407.	6.12E-04	-54.3	4.63	-699.	185.
1/10	-8.23	-525.	55.2	-69.9	12.3	-617.	205.

Table Q–1083. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.74E-04	-2.90E-03	2.46E-03	-1.11E-03	1.29E-03	-5.64E-02	8.80E-02
1/20	-1.88E-04	-1.54E-02	1.10E-02	-4.27E-03	3.78E-03	-8.16E-02	7.94E-02
1/15	-4.15E-04	-2.23E-02	1.74E-02	-3.71E-03	4.82E-03	-4.94E-02	7.86E-02
1/10	1.65E-03	-4.43E-02	4.18E-02	-1.53E-02	2.13E-02	-0.170	0.197

Table Q–1084. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1085. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1086. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1087. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1088. Minimum and Maximum of Variables  $F_y^{\text{fk}}$  and  $(F_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{fk}} \rangle$	Unfiltered $F_y^{\text{fk}}$		Filtered $F_y^{\text{fk}}$		Filtered $(F_y^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.62E-05	-1.39E-03	2.20E-03	-3.96E-04	5.09E-04	-2.65E-02	2.78E-02
1/20	8.19E-05	-5.40E-03	3.86E-03	-8.45E-04	9.57E-04	-1.85E-02	1.75E-02
1/15	-2.51E-05	-1.03E-02	9.74E-03	-1.50E-03	4.03E-03	-2.21E-02	6.08E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

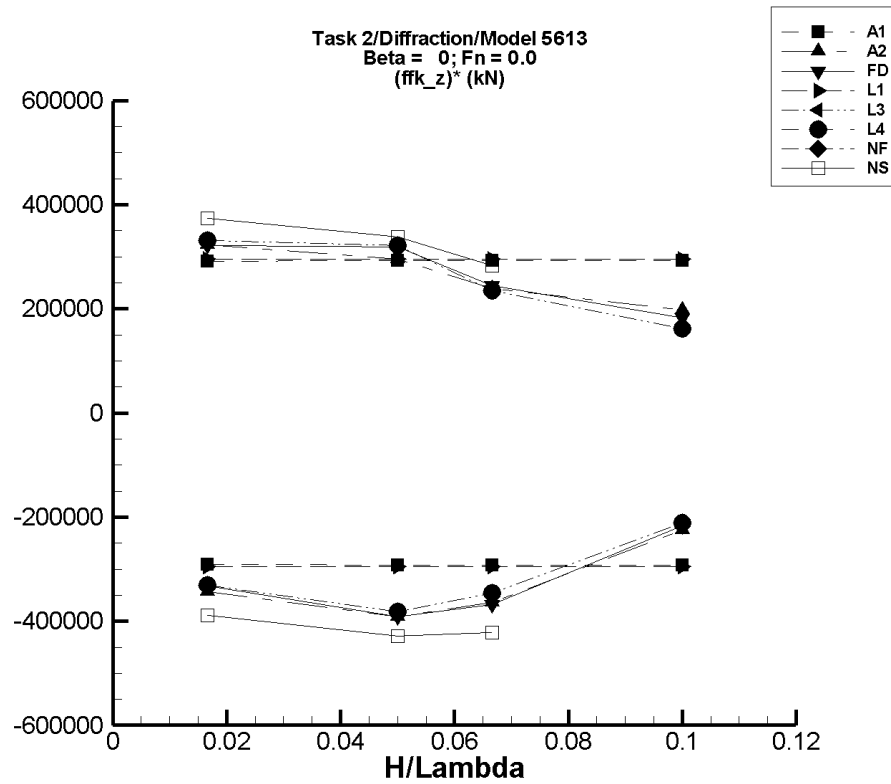


Figure Q-137. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1089. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.77	-4.91E+03	4.91E+03	-4.86E+03	4.85E+03	-2.91E+05	2.92E+05
1/20	-14.3	-1.48E+04	1.48E+04	-1.46E+04	1.46E+04	-2.92E+05	2.92E+05
1/15	-19.2	-1.97E+04	1.97E+04	-1.95E+04	1.95E+04	-2.92E+05	2.93E+05
1/10	-28.7	-2.96E+04	2.96E+04	-2.93E+04	2.92E+04	-2.92E+05	2.93E+05

Table Q-1090. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	602.	-5.21E+03	5.99E+03	-5.13E+03	5.98E+03	-3.44E+05	3.23E+05
1/20	6.42E+03	-1.34E+04	2.14E+04	-1.31E+04	2.12E+04	-3.91E+05	2.96E+05
1/15	1.34E+04	-1.12E+04	2.95E+04	-1.08E+04	2.94E+04	-3.64E+05	2.39E+05
1/10	2.63E+04	3.15E+03	4.77E+04	3.82E+03	4.60E+04	-2.25E+05	1.97E+05

Table Q-1091. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	710.	-4.87E+03	6.13E+03	-4.82E+03	6.07E+03	-3.32E+05	3.22E+05
1/20	5.44E+03	-1.43E+04	2.15E+04	-1.41E+04	2.14E+04	-3.92E+05	3.19E+05
1/15	1.18E+04	-1.31E+04	2.83E+04	-1.28E+04	2.81E+04	-3.69E+05	2.45E+05
1/10	2.76E+04	4.00E+03	4.63E+04	5.93E+03	4.59E+04	-2.17E+05	1.83E+05

Table Q-1092. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.404	-4.93E+03	4.93E+03	-4.91E+03	4.91E+03	-2.95E+05	2.95E+05
1/20	-1.21	-1.48E+04	1.48E+04	-1.47E+04	1.47E+04	-2.95E+05	2.95E+05
1/15	-1.62	-1.97E+04	1.97E+04	-1.97E+04	1.97E+04	-2.95E+05	2.95E+05
1/10	-2.43	-2.96E+04	2.96E+04	-2.95E+04	2.95E+04	-2.95E+05	2.95E+05

Table Q–1093. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	70.9	-5.47E+03	5.62E+03	-5.45E+03	5.60E+03	-3.31E+05	3.32E+05
1/20	1.64E+03	-1.75E+04	1.78E+04	-1.75E+04	1.77E+04	-3.82E+05	3.21E+05
1/15	6.31E+03	-1.68E+04	2.20E+04	-1.67E+04	2.20E+04	-3.46E+05	2.35E+05
1/10	1.76E+04	-6.37E+03	3.39E+04	-3.56E+03	3.37E+04	-2.11E+05	1.62E+05

Table Q–1094. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	70.9	-5.47E+03	5.62E+03	-5.45E+03	5.60E+03	-3.31E+05	3.32E+05
1/20	1.64E+03	-1.75E+04	1.78E+04	-1.75E+04	1.77E+04	-3.82E+05	3.21E+05
1/15	6.31E+03	-1.68E+04	2.20E+04	-1.67E+04	2.20E+04	-3.46E+05	2.35E+05
1/10	1.76E+04	-6.37E+03	3.39E+04	-3.56E+03	3.37E+04	-2.11E+05	1.62E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1095. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1096. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-298.	-6.84E+03	6.00E+03	-6.77E+03	5.94E+03	-3.88E+05	3.74E+05
1/20	577.	-2.11E+04	1.77E+04	-2.08E+04	1.75E+04	-4.28E+05	3.39E+05
1/15	3.42E+03	-2.49E+04	2.26E+04	-2.47E+04	2.23E+04	-4.21E+05	2.83E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

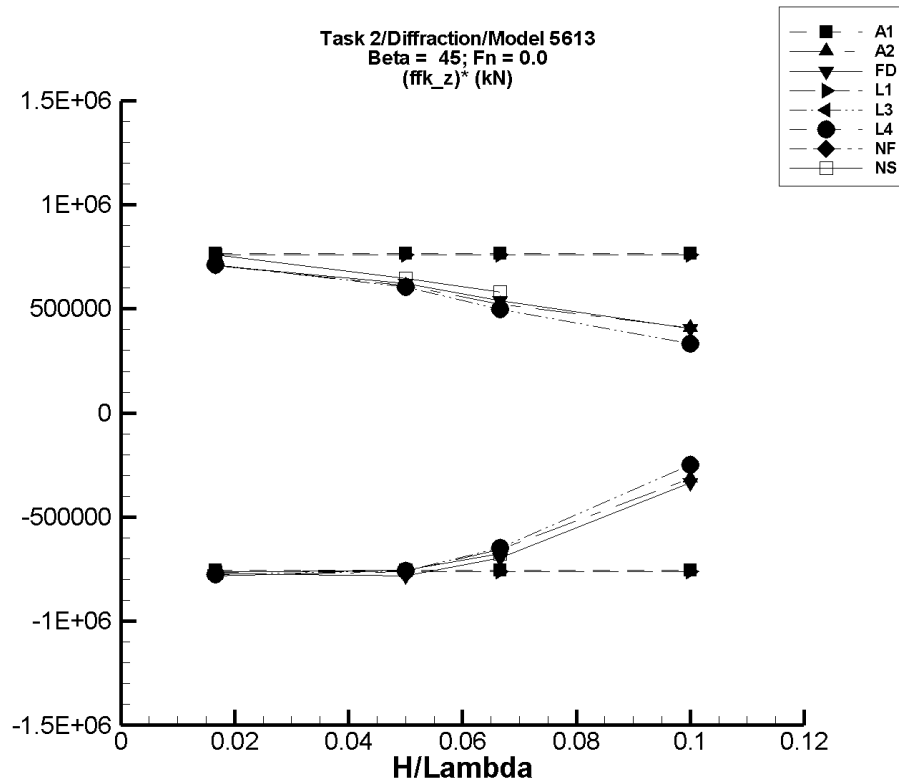


Figure Q-138. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1097. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.8	-1.27E+04	1.27E+04	-1.26E+04	1.27E+04	-7.53E+05	7.65E+05
1/20	-32.4	-3.82E+04	3.82E+04	-3.78E+04	3.83E+04	-7.55E+05	7.67E+05
1/15	-43.3	-5.10E+04	5.10E+04	-5.05E+04	5.11E+04	-7.56E+05	7.68E+05
1/10	-64.9	-7.65E+04	7.65E+04	-7.57E+04	7.67E+04	-7.56E+05	7.68E+05

Table Q–1098. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	606.	-1.26E+04	1.24E+04	-1.24E+04	1.24E+04	-7.83E+05	7.08E+05
1/20	6.38E+03	-3.22E+04	3.72E+04	-3.18E+04	3.70E+04	-7.63E+05	6.12E+05
1/15	1.33E+04	-3.12E+04	4.87E+04	-3.03E+04	4.82E+04	-6.55E+05	5.23E+05
1/10	2.60E+04	-5.78E+03	6.73E+04	-5.36E+03	6.69E+04	-3.14E+05	4.09E+05



Table Q–1099. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	716.	-1.23E+04	1.26E+04	-1.22E+04	1.25E+04	-7.72E+05	7.07E+05
1/20	5.33E+03	-3.43E+04	3.67E+04	-3.38E+04	3.65E+04	-7.82E+05	6.23E+05
1/15	1.17E+04	-3.56E+04	4.80E+04	-3.46E+04	4.76E+04	-6.95E+05	5.39E+05
1/10	2.71E+04	-6.86E+03	6.76E+04	-6.36E+03	6.75E+04	-3.35E+05	4.04E+05

Table Q–1100. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.22	-1.27E+04	1.27E+04	-1.27E+04	1.27E+04	-7.60E+05	7.60E+05
1/20	15.7	-3.81E+04	3.81E+04	-3.80E+04	3.80E+04	-7.60E+05	7.60E+05
1/15	20.9	-5.09E+04	5.09E+04	-5.07E+04	5.07E+04	-7.60E+05	7.60E+05
1/10	31.3	-7.63E+04	7.63E+04	-7.60E+04	7.60E+04	-7.60E+05	7.60E+05

Table Q–1101. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	74.8	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.74E+05	7.12E+05
1/20	1.55E+03	-3.66E+04	3.18E+04	-3.64E+04	3.17E+04	-7.59E+05	6.04E+05
1/15	6.36E+03	-3.73E+04	3.97E+04	-3.69E+04	3.95E+04	-6.49E+05	4.97E+05
1/10	1.72E+04	-8.40E+03	5.05E+04	-7.84E+03	5.04E+04	-2.51E+05	3.32E+05

Table Q–1102. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	74.8	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.74E+05	7.12E+05
1/20	1.55E+03	-3.66E+04	3.18E+04	-3.64E+04	3.17E+04	-7.59E+05	6.04E+05
1/15	6.36E+03	-3.73E+04	3.97E+04	-3.69E+04	3.95E+04	-6.49E+05	4.97E+05
1/10	1.72E+04	-8.40E+03	5.05E+04	-7.84E+03	5.04E+04	-2.51E+05	3.32E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1103. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1104. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-312.	-1.32E+04	1.23E+04	-1.31E+04	1.23E+04	-7.65E+05	7.60E+05
1/20	245.	-3.79E+04	3.25E+04	-3.74E+04	3.25E+04	-7.54E+05	6.45E+05
1/15	2.31E+03	-4.30E+04	4.10E+04	-4.27E+04	4.11E+04	-6.74E+05	5.82E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

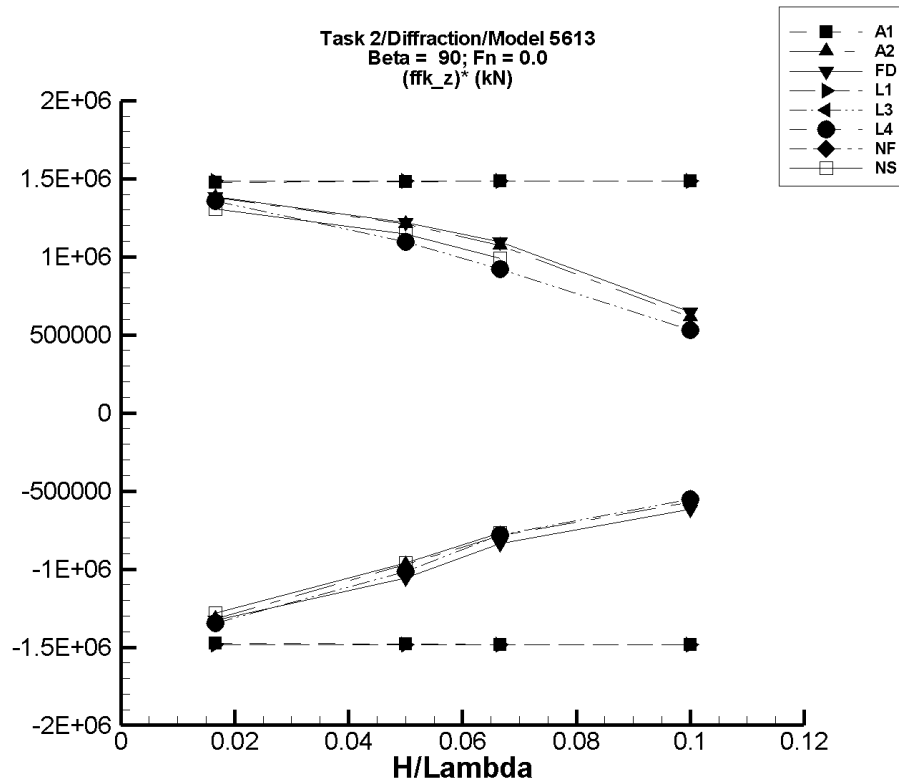


Figure Q-139. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1105. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-15.7	-2.49E+04	2.49E+04	-2.46E+04	2.46E+04	-1.48E+06	1.48E+06
1/20	-47.3	-7.48E+04	7.48E+04	-7.41E+04	7.40E+04	-1.48E+06	1.48E+06
1/15	-63.1	-9.99E+04	9.99E+04	-9.89E+04	9.88E+04	-1.48E+06	1.48E+06
1/10	-94.7	-1.50E+05	1.50E+05	-1.48E+05	1.48E+05	-1.48E+06	1.48E+06

Table Q–1106. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	610.	-2.15E+04	2.38E+04	-2.13E+04	2.36E+04	-1.32E+06	1.38E+06
1/20	6.51E+03	-4.22E+04	6.82E+04	-4.20E+04	6.71E+04	-9.70E+05	1.21E+06
1/15	1.38E+04	-3.99E+04	8.63E+04	-3.86E+04	8.52E+04	-7.86E+05	1.07E+06
1/10	2.69E+04	-3.39E+04	9.33E+04	-2.99E+04	8.84E+04	-5.69E+05	6.15E+05

Table Q-1107. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	734.	-2.14E+04	2.41E+04	-2.14E+04	2.38E+04	-1.33E+06	1.39E+06
1/20	5.56E+03	-4.71E+04	6.71E+04	-4.72E+04	6.65E+04	-1.06E+06	1.22E+06
1/15	1.25E+04	-4.43E+04	8.62E+04	-4.34E+04	8.54E+04	-8.38E+05	1.09E+06
1/10	2.86E+04	-3.84E+04	9.53E+04	-3.31E+04	9.29E+04	-6.17E+05	6.43E+05

Table Q-1108. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.3	-2.48E+04	2.48E+04	-2.47E+04	2.48E+04	-1.48E+06	1.49E+06
1/20	-30.8	-7.45E+04	7.45E+04	-7.42E+04	7.43E+04	-1.48E+06	1.49E+06
1/15	-41.0	-9.93E+04	9.94E+04	-9.90E+04	9.90E+04	-1.48E+06	1.49E+06
1/10	-61.6	-1.49E+05	1.49E+05	-1.48E+05	1.49E+05	-1.48E+06	1.49E+06

Table Q–1109. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	65.5	-2.24E+04	2.27E+04	-2.23E+04	2.26E+04	-1.34E+06	1.35E+06
1/20	1.56E+03	-4.93E+04	5.64E+04	-4.92E+04	5.63E+04	-1.02E+06	1.09E+06
1/15	6.30E+03	-4.64E+04	6.80E+04	-4.59E+04	6.78E+04	-7.83E+05	9.23E+05
1/10	1.71E+04	-3.94E+04	7.55E+04	-3.82E+04	7.03E+04	-5.53E+05	5.32E+05

Table Q–1110. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	65.5	-2.24E+04	2.27E+04	-2.23E+04	2.26E+04	-1.34E+06	1.35E+06
1/20	1.56E+03	-4.93E+04	5.64E+04	-4.92E+04	5.63E+04	-1.02E+06	1.09E+06
1/15	6.30E+03	-4.64E+04	6.80E+04	-4.59E+04	6.78E+04	-7.83E+05	9.23E+05
1/10	1.71E+04	-3.94E+04	7.55E+04	-3.82E+04	7.03E+04	-5.53E+05	5.32E+05

Table Q-1111. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1112. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-323.	-2.19E+04	2.16E+04	-2.17E+04	2.14E+04	-1.28E+06	1.30E+06
1/20	2.98	-4.86E+04	5.77E+04	-4.81E+04	5.74E+04	-9.63E+05	1.15E+06
1/15	1.53E+03	-5.02E+04	6.76E+04	-4.96E+04	6.76E+04	-7.67E+05	9.90E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

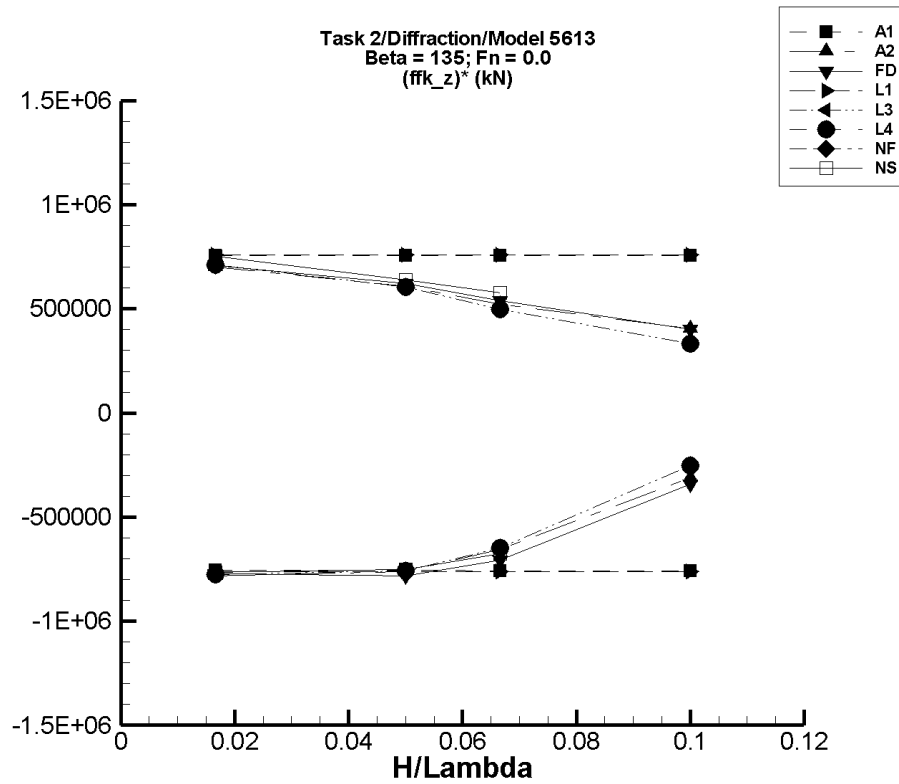


Figure Q-140. Minimum and maximum of filtered  $(F_z^{fk} - \langle F_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1113. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.51	-1.27E+04	1.27E+04	-1.26E+04	1.26E+04	-7.54E+05	7.54E+05
1/20	-13.6	-3.82E+04	3.82E+04	-3.78E+04	3.78E+04	-7.56E+05	7.56E+05
1/15	-18.1	-5.10E+04	5.10E+04	-5.05E+04	5.05E+04	-7.57E+05	7.57E+05
1/10	-27.2	-7.65E+04	7.65E+04	-7.57E+04	7.57E+04	-7.57E+05	7.57E+05

Table Q-1114. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	613.	-1.26E+04	1.24E+04	-1.24E+04	1.23E+04	-7.83E+05	7.00E+05
1/20	6.36E+03	-3.22E+04	3.69E+04	-3.18E+04	3.68E+04	-7.63E+05	6.08E+05
1/15	1.33E+04	-3.12E+04	4.87E+04	-3.03E+04	4.82E+04	-6.55E+05	5.24E+05
1/10	2.59E+04	-5.74E+03	6.73E+04	-5.36E+03	6.62E+04	-3.13E+05	4.03E+05

Table Q-1115. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	725.	-1.23E+04	1.26E+04	-1.22E+04	1.25E+04	-7.73E+05	7.06E+05
1/20	5.39E+03	-3.43E+04	3.67E+04	-3.38E+04	3.65E+04	-7.83E+05	6.22E+05
1/15	1.17E+04	-3.56E+04	4.80E+04	-3.55E+04	4.76E+04	-7.08E+05	5.39E+05
1/10	2.74E+04	-6.83E+03	6.75E+04	-6.80E+03	6.75E+04	-3.42E+05	4.01E+05

Table Q-1116. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.77	-1.27E+04	1.27E+04	-1.27E+04	1.27E+04	-7.60E+05	7.60E+05
1/20	17.3	-3.81E+04	3.81E+04	-3.80E+04	3.80E+04	-7.60E+05	7.60E+05
1/15	23.1	-5.09E+04	5.09E+04	-5.07E+04	5.07E+04	-7.60E+05	7.60E+05
1/10	34.6	-7.63E+04	7.63E+04	-7.60E+04	7.60E+04	-7.60E+05	7.60E+05

Table Q–1117. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	75.8	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.74E+05	7.12E+05
1/20	1.56E+03	-3.66E+04	3.18E+04	-3.64E+04	3.17E+04	-7.60E+05	6.04E+05
1/15	6.31E+03	-3.73E+04	3.97E+04	-3.69E+04	3.95E+04	-6.49E+05	4.98E+05
1/10	1.73E+04	-8.40E+03	5.05E+04	-7.84E+03	5.04E+04	-2.51E+05	3.31E+05

Table Q–1118. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	75.8	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.74E+05	7.12E+05
1/20	1.56E+03	-3.66E+04	3.18E+04	-3.64E+04	3.17E+04	-7.60E+05	6.04E+05
1/15	6.31E+03	-3.73E+04	3.97E+04	-3.69E+04	3.95E+04	-6.49E+05	4.98E+05
1/10	1.73E+04	-8.40E+03	5.05E+04	-7.84E+03	5.04E+04	-2.51E+05	3.31E+05

Table Q-1119. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1120. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-312.	-1.32E+04	1.23E+04	-1.31E+04	1.22E+04	-7.65E+05	7.51E+05
1/20	185.	-3.79E+04	3.25E+04	-3.75E+04	3.21E+04	-7.53E+05	6.39E+05
1/15	2.28E+03	-4.31E+04	4.09E+04	-4.27E+04	4.07E+04	-6.75E+05	5.76E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

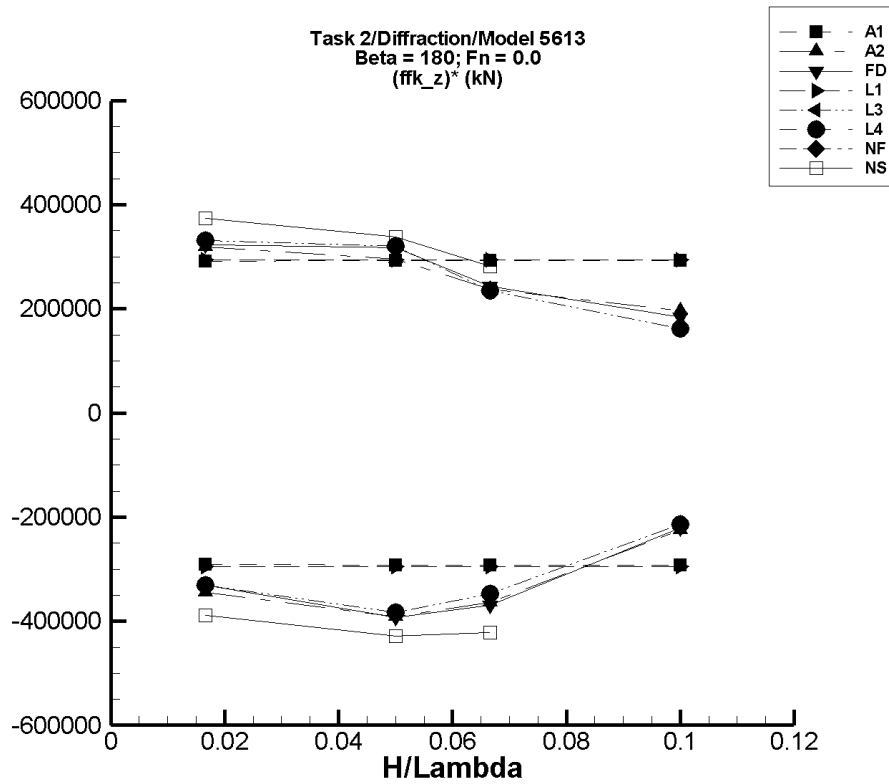


Figure Q-141. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1121. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.385	-4.91E+03	4.91E+03	-4.86E+03	4.86E+03	-2.91E+05	2.91E+05
1/20	-1.16	-1.48E+04	1.48E+04	-1.46E+04	1.46E+04	-2.92E+05	2.92E+05
1/15	-1.55	-1.97E+04	1.97E+04	-1.95E+04	1.95E+04	-2.92E+05	2.93E+05
1/10	-2.32	-2.95E+04	2.96E+04	-2.92E+04	2.93E+04	-2.92E+05	2.93E+05

Table Q-1122. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	607.	-5.21E+03	5.99E+03	-5.13E+03	5.93E+03	-3.44E+05	3.20E+05
1/20	6.43E+03	-1.34E+04	2.13E+04	-1.31E+04	2.12E+04	-3.91E+05	2.96E+05
1/15	1.34E+04	-1.12E+04	2.94E+04	-1.09E+04	2.92E+04	-3.64E+05	2.37E+05
1/10	2.63E+04	-472.	4.76E+04	3.79E+03	4.60E+04	-2.25E+05	1.97E+05

Table Q-1123. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	699.	-4.87E+03	6.13E+03	-4.82E+03	6.07E+03	-3.31E+05	3.23E+05
1/20	5.49E+03	-1.43E+04	2.16E+04	-1.41E+04	2.14E+04	-3.92E+05	3.17E+05
1/15	1.19E+04	-1.31E+04	2.83E+04	-1.28E+04	2.81E+04	-3.70E+05	2.44E+05
1/10	2.75E+04	3.15E+03	4.62E+04	5.46E+03	4.59E+04	-2.20E+05	1.84E+05

Table Q-1124. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.28	-4.93E+03	4.93E+03	-4.91E+03	4.91E+03	-2.95E+05	2.95E+05
1/20	12.9	-1.48E+04	1.48E+04	-1.47E+04	1.47E+04	-2.95E+05	2.95E+05
1/15	17.1	-1.97E+04	1.97E+04	-1.97E+04	1.97E+04	-2.95E+05	2.95E+05
1/10	25.7	-2.96E+04	2.96E+04	-2.95E+04	2.95E+04	-2.95E+05	2.95E+05



Table Q–1125. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	71.4	-5.47E+03	5.62E+03	-5.45E+03	5.60E+03	-3.31E+05	3.32E+05
1/20	1.71E+03	-1.75E+04	1.78E+04	-1.75E+04	1.77E+04	-3.83E+05	3.20E+05
1/15	6.31E+03	-1.68E+04	2.20E+04	-1.69E+04	2.20E+04	-3.48E+05	2.35E+05
1/10	1.75E+04	-6.44E+03	3.39E+04	-3.84E+03	3.37E+04	-2.14E+05	1.62E+05

Table Q–1126. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	71.4	-5.47E+03	5.62E+03	-5.45E+03	5.60E+03	-3.31E+05	3.32E+05
1/20	1.71E+03	-1.75E+04	1.78E+04	-1.75E+04	1.77E+04	-3.83E+05	3.20E+05
1/15	6.31E+03	-1.68E+04	2.20E+04	-1.69E+04	2.20E+04	-3.48E+05	2.35E+05
1/10	1.75E+04	-6.44E+03	3.39E+04	-3.84E+03	3.37E+04	-2.14E+05	1.62E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1127. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1128. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-295.	-6.84E+03	6.00E+03	-6.77E+03	5.94E+03	-3.88E+05	3.74E+05
1/20	597.	-2.11E+04	1.77E+04	-2.09E+04	1.75E+04	-4.29E+05	3.38E+05
1/15	3.38E+03	-2.49E+04	2.28E+04	-2.47E+04	2.22E+04	-4.21E+05	2.82E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

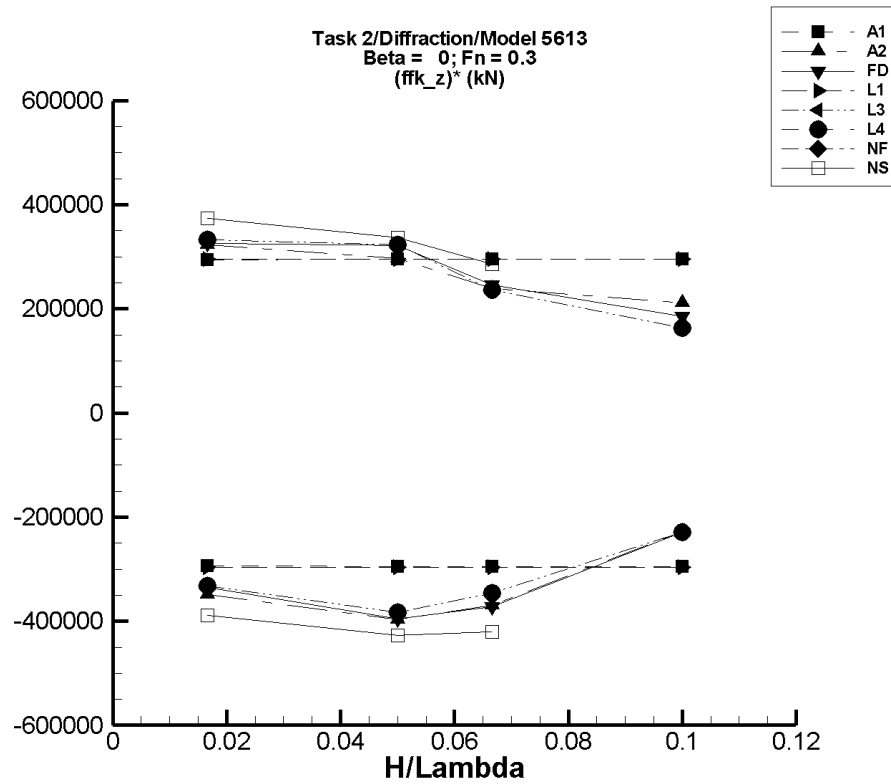


Figure Q-142. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1129. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.166	-4.91E+03	4.91E+03	-4.90E+03	4.90E+03	-2.94E+05	2.94E+05
1/20	-0.498	-1.48E+04	1.48E+04	-1.47E+04	1.47E+04	-2.95E+05	2.95E+05
1/15	-0.664	-1.97E+04	1.97E+04	-1.97E+04	1.97E+04	-2.95E+05	2.95E+05
1/10	-0.998	-2.96E+04	2.96E+04	-2.95E+04	2.95E+04	-2.95E+05	2.95E+05

Table Q–1130. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	606.	-5.21E+03	5.99E+03	-5.21E+03	5.99E+03	-3.49E+05	3.23E+05
1/20	6.43E+03	-1.34E+04	2.14E+04	-1.34E+04	2.13E+04	-3.97E+05	2.98E+05
1/15	1.35E+04	-1.12E+04	2.95E+04	-1.12E+04	2.94E+04	-3.69E+05	2.40E+05
1/10	2.62E+04	-476.	4.80E+04	3.47E+03	4.74E+04	-2.28E+05	2.12E+05

Table Q-1131. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	706.	-4.87E+03	6.13E+03	-4.87E+03	6.13E+03	-3.34E+05	3.25E+05
1/20	5.45E+03	-1.44E+04	2.16E+04	-1.43E+04	2.15E+04	-3.96E+05	3.21E+05
1/15	1.18E+04	-1.31E+04	2.83E+04	-1.31E+04	2.82E+04	-3.73E+05	2.46E+05
1/10	2.75E+04	3.09E+03	4.63E+04	4.64E+03	4.61E+04	-2.29E+05	1.86E+05

Table Q-1132. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.699	-4.93E+03	4.93E+03	-4.93E+03	4.93E+03	-2.96E+05	2.96E+05
1/20	2.10	-1.48E+04	1.48E+04	-1.48E+04	1.48E+04	-2.96E+05	2.96E+05
1/15	2.79	-1.97E+04	1.97E+04	-1.97E+04	1.97E+04	-2.96E+05	2.96E+05
1/10	4.19	-2.96E+04	2.96E+04	-2.96E+04	2.96E+04	-2.96E+05	2.96E+05

Table Q–1133. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	81.4	-5.47E+03	5.62E+03	-5.46E+03	5.62E+03	-3.33E+05	3.32E+05
1/20	1.63E+03	-1.75E+04	1.78E+04	-1.75E+04	1.78E+04	-3.83E+05	3.22E+05
1/15	6.25E+03	-1.68E+04	2.20E+04	-1.68E+04	2.20E+04	-3.46E+05	2.37E+05
1/10	1.75E+04	-6.44E+03	3.39E+04	-5.42E+03	3.39E+04	-2.30E+05	1.63E+05

Table Q–1134. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	81.4	-5.47E+03	5.62E+03	-5.46E+03	5.62E+03	-3.33E+05	3.32E+05
1/20	1.63E+03	-1.75E+04	1.78E+04	-1.75E+04	1.78E+04	-3.83E+05	3.22E+05
1/15	6.25E+03	-1.68E+04	2.20E+04	-1.68E+04	2.20E+04	-3.46E+05	2.37E+05
1/10	1.75E+04	-6.44E+03	3.39E+04	-5.42E+03	3.39E+04	-2.30E+05	1.63E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1135. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1136. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-300.	-6.84E+03	6.00E+03	-6.77E+03	5.94E+03	-3.88E+05	3.75E+05
1/20	566.	-2.11E+04	1.77E+04	-2.08E+04	1.74E+04	-4.28E+05	3.37E+05
1/15	3.41E+03	-2.49E+04	2.26E+04	-2.46E+04	2.24E+04	-4.21E+05	2.85E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

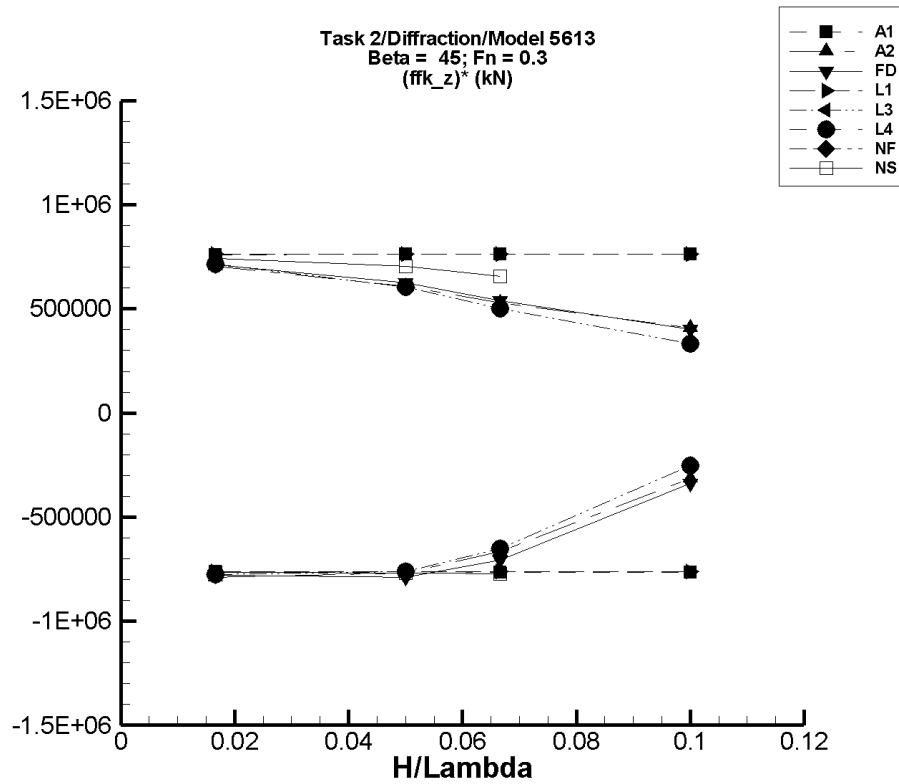


Figure Q-143. Minimum and maximum of filtered  $(F_z^{fk} - \langle F_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q–1137. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.85	-1.27E+04	1.27E+04	-1.27E+04	1.27E+04	-7.61E+05	7.60E+05
1/20	11.6	-3.82E+04	3.82E+04	-3.81E+04	3.81E+04	-7.63E+05	7.62E+05
1/15	15.5	-5.10E+04	5.10E+04	-5.09E+04	5.09E+04	-7.64E+05	7.63E+05
1/10	23.2	-7.65E+04	7.65E+04	-7.63E+04	7.63E+04	-7.64E+05	7.63E+05

Table Q–1138. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	618.	-1.26E+04	1.24E+04	-1.26E+04	1.24E+04	-7.90E+05	7.04E+05
1/20	6.43E+03	-3.22E+04	3.70E+04	-3.21E+04	3.69E+04	-7.70E+05	6.09E+05
1/15	1.34E+04	-3.12E+04	4.88E+04	-3.10E+04	4.86E+04	-6.65E+05	5.28E+05
1/10	2.59E+04	-5.79E+03	6.73E+04	-5.58E+03	6.69E+04	-3.15E+05	4.10E+05

Table Q–1139. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	709.	-1.23E+04	1.26E+04	-1.23E+04	1.26E+04	-7.78E+05	7.11E+05
1/20	5.39E+03	-3.43E+04	3.67E+04	-3.41E+04	3.66E+04	-7.91E+05	6.25E+05
1/15	1.18E+04	-3.56E+04	4.80E+04	-3.54E+04	4.79E+04	-7.08E+05	5.41E+05
1/10	2.72E+04	-6.89E+03	6.76E+04	-6.71E+03	6.75E+04	-3.39E+05	4.03E+05

Table Q–1140. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.40	-1.27E+04	1.27E+04	-1.27E+04	1.27E+04	-7.62E+05	7.62E+05
1/20	7.21	-3.81E+04	3.81E+04	-3.81E+04	3.81E+04	-7.62E+05	7.62E+05
1/15	9.61	-5.09E+04	5.09E+04	-5.08E+04	5.08E+04	-7.62E+05	7.62E+05
1/10	14.4	-7.63E+04	7.63E+04	-7.62E+04	7.62E+04	-7.62E+05	7.62E+05

Table Q–1141. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	79.7	-1.29E+04	1.20E+04	-1.29E+04	1.20E+04	-7.76E+05	7.14E+05
1/20	1.59E+03	-3.66E+04	3.18E+04	-3.66E+04	3.18E+04	-7.63E+05	6.04E+05
1/15	6.25E+03	-3.73E+04	3.97E+04	-3.72E+04	3.96E+04	-6.52E+05	5.01E+05
1/10	1.73E+04	-8.37E+03	5.05E+04	-7.95E+03	5.05E+04	-2.52E+05	3.32E+05

Table Q–1142. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	79.7	-1.29E+04	1.20E+04	-1.29E+04	1.20E+04	-7.76E+05	7.14E+05
1/20	1.59E+03	-3.66E+04	3.18E+04	-3.66E+04	3.18E+04	-7.63E+05	6.04E+05
1/15	6.25E+03	-3.73E+04	3.97E+04	-3.72E+04	3.96E+04	-6.52E+05	5.01E+05
1/10	1.73E+04	-8.37E+03	5.05E+04	-7.95E+03	5.05E+04	-2.52E+05	3.32E+05

Table Q–1143. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1144. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-280.	-1.32E+04	1.22E+04	-1.31E+04	1.21E+04	-7.67E+05	7.42E+05
1/20	-1.86E+03	-4.08E+04	3.34E+04	-4.03E+04	3.33E+04	-7.70E+05	7.03E+05
1/15	-1.90E+03	-5.38E+04	4.19E+04	-5.34E+04	4.19E+04	-7.73E+05	6.56E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

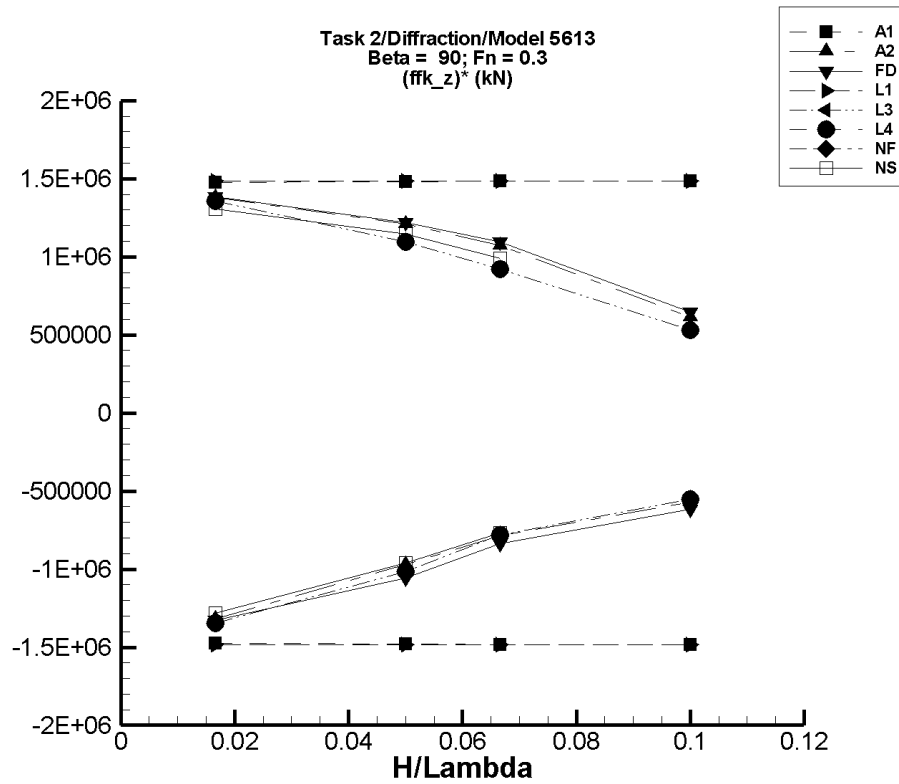


Figure Q-144. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1145. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-15.7	-2.49E+04	2.49E+04	-2.46E+04	2.46E+04	-1.48E+06	1.48E+06
1/20	-47.3	-7.48E+04	7.48E+04	-7.41E+04	7.40E+04	-1.48E+06	1.48E+06
1/15	-63.1	-9.99E+04	9.99E+04	-9.89E+04	9.88E+04	-1.48E+06	1.48E+06
1/10	-94.7	-1.50E+05	1.50E+05	-1.48E+05	1.48E+05	-1.48E+06	1.48E+06

Table Q–1146. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	610.	-2.15E+04	2.38E+04	-2.13E+04	2.36E+04	-1.32E+06	1.38E+06
1/20	6.51E+03	-4.22E+04	6.82E+04	-4.20E+04	6.71E+04	-9.70E+05	1.21E+06
1/15	1.37E+04	-3.99E+04	8.63E+04	-3.86E+04	8.52E+04	-7.85E+05	1.07E+06
1/10	2.69E+04	-3.39E+04	9.33E+04	-2.99E+04	8.84E+04	-5.69E+05	6.15E+05

Table Q-1147. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	734.	-2.14E+04	2.41E+04	-2.14E+04	2.38E+04	-1.33E+06	1.39E+06
1/20	5.56E+03	-4.71E+04	6.71E+04	-4.72E+04	6.65E+04	-1.06E+06	1.22E+06
1/15	1.25E+04	-4.43E+04	8.62E+04	-4.34E+04	8.54E+04	-8.38E+05	1.09E+06
1/10	2.86E+04	-3.84E+04	9.53E+04	-3.31E+04	9.29E+04	-6.17E+05	6.43E+05

Table Q-1148. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-10.3	-2.48E+04	2.48E+04	-2.47E+04	2.48E+04	-1.48E+06	1.49E+06
1/20	-30.8	-7.45E+04	7.45E+04	-7.42E+04	7.43E+04	-1.48E+06	1.49E+06
1/15	-41.1	-9.93E+04	9.94E+04	-9.90E+04	9.90E+04	-1.48E+06	1.49E+06
1/10	-61.6	-1.49E+05	1.49E+05	-1.48E+05	1.49E+05	-1.48E+06	1.49E+06

Table Q-1149. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	65.5	-2.24E+04	2.27E+04	-2.23E+04	2.26E+04	-1.34E+06	1.35E+06
1/20	1.56E+03	-4.93E+04	5.64E+04	-4.92E+04	5.63E+04	-1.02E+06	1.09E+06
1/15	6.30E+03	-4.64E+04	6.80E+04	-4.59E+04	6.78E+04	-7.83E+05	9.23E+05
1/10	1.71E+04	-3.94E+04	7.55E+04	-3.82E+04	7.03E+04	-5.53E+05	5.32E+05

Table Q-1150. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	65.5	-2.24E+04	2.27E+04	-2.23E+04	2.26E+04	-1.34E+06	1.35E+06
1/20	1.56E+03	-4.93E+04	5.64E+04	-4.92E+04	5.63E+04	-1.02E+06	1.09E+06
1/15	6.30E+03	-4.64E+04	6.80E+04	-4.59E+04	6.78E+04	-7.83E+05	9.23E+05
1/10	1.71E+04	-3.94E+04	7.55E+04	-3.82E+04	7.03E+04	-5.53E+05	5.32E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q–1151. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1152. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-323.	-2.19E+04	2.16E+04	-2.17E+04	2.14E+04	-1.28E+06	1.30E+06
1/20	2.99	-4.86E+04	5.77E+04	-4.81E+04	5.74E+04	-9.63E+05	1.15E+06
1/15	1.53E+03	-5.02E+04	6.76E+04	-4.96E+04	6.76E+04	-7.67E+05	9.90E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

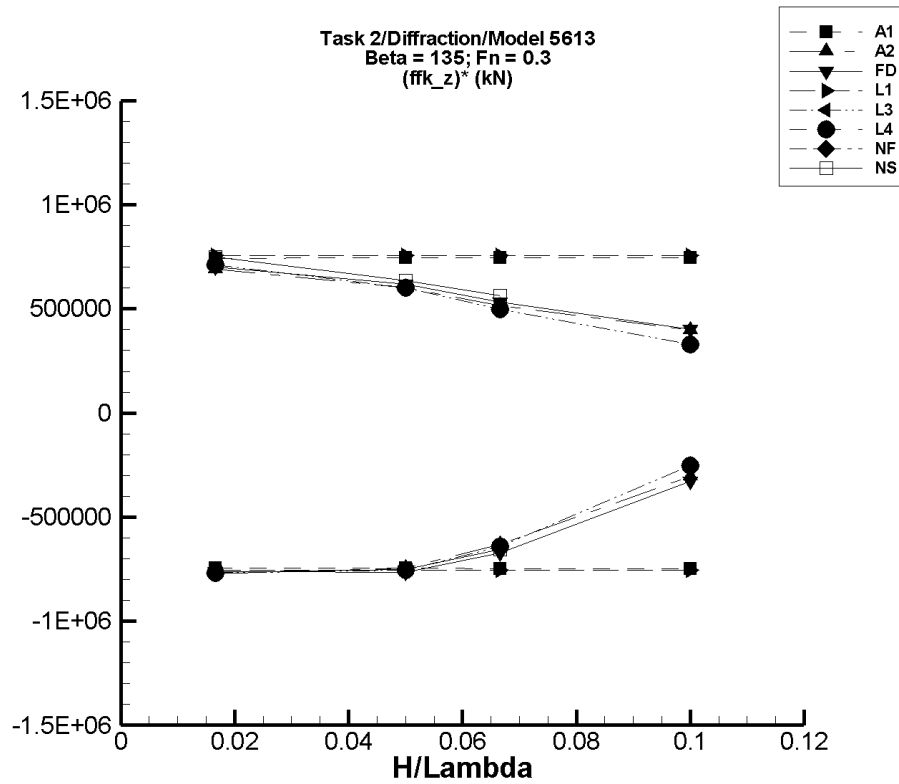


Figure Q-145. Minimum and maximum of filtered  $(F_z^{fk} - \langle F_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1153. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.56	-1.27E+04	1.27E+04	-1.24E+04	1.24E+04	-7.44E+05	7.44E+05
1/20	-10.7	-3.82E+04	3.82E+04	-3.73E+04	3.73E+04	-7.46E+05	7.46E+05
1/15	-14.3	-5.10E+04	5.10E+04	-4.98E+04	4.98E+04	-7.47E+05	7.47E+05
1/10	-21.5	-7.65E+04	7.65E+04	-7.47E+04	7.47E+04	-7.47E+05	7.47E+05

Table Q–1154. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	608.	-1.26E+04	1.24E+04	-1.23E+04	1.21E+04	-7.72E+05	6.92E+05
1/20	6.37E+03	-3.22E+04	3.69E+04	-3.09E+04	3.65E+04	-7.45E+05	6.03E+05
1/15	1.34E+04	-3.12E+04	4.87E+04	-2.87E+04	4.78E+04	-6.31E+05	5.16E+05
1/10	2.57E+04	-5.77E+03	6.70E+04	-4.53E+03	6.56E+04	-3.03E+05	3.98E+05

Table Q-1155. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	711.	-1.23E+04	1.26E+04	-1.20E+04	1.24E+04	-7.60E+05	6.99E+05
1/20	5.33E+03	-3.43E+04	3.67E+04	-3.29E+04	3.62E+04	-7.65E+05	6.17E+05
1/15	1.18E+04	-3.56E+04	4.80E+04	-3.30E+04	4.72E+04	-6.71E+05	5.31E+05
1/10	2.73E+04	-6.83E+03	6.75E+04	-5.59E+03	6.74E+04	-3.29E+05	4.01E+05

Table Q-1156. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.24	-1.27E+04	1.27E+04	-1.26E+04	1.26E+04	-7.56E+05	7.56E+05
1/20	-3.72	-3.81E+04	3.81E+04	-3.78E+04	3.78E+04	-7.56E+05	7.56E+05
1/15	-4.95	-5.09E+04	5.09E+04	-5.04E+04	5.04E+04	-7.56E+05	7.56E+05
1/10	-7.44	-7.63E+04	7.63E+04	-7.56E+04	7.56E+04	-7.56E+05	7.56E+05

Table Q–1157. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	79.7	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.70E+05	7.10E+05
1/20	1.56E+03	-3.66E+04	3.18E+04	-3.62E+04	3.17E+04	-7.55E+05	6.02E+05
1/15	6.22E+03	-3.73E+04	3.96E+04	-3.66E+04	3.94E+04	-6.42E+05	4.97E+05
1/10	1.75E+04	-8.29E+03	5.05E+04	-7.64E+03	5.03E+04	-2.51E+05	3.28E+05

Table Q–1158. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	79.7	-1.29E+04	1.20E+04	-1.28E+04	1.19E+04	-7.70E+05	7.10E+05
1/20	1.56E+03	-3.66E+04	3.18E+04	-3.62E+04	3.17E+04	-7.55E+05	6.02E+05
1/15	6.22E+03	-3.73E+04	3.96E+04	-3.66E+04	3.94E+04	-6.42E+05	4.97E+05
1/10	1.75E+04	-8.29E+03	5.05E+04	-7.64E+03	5.03E+04	-2.51E+05	3.28E+05

Table Q–1159. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1160. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-301.	-1.32E+04	1.23E+04	-1.31E+04	1.22E+04	-7.65E+05	7.50E+05
1/20	378.	-3.76E+04	3.25E+04	-3.71E+04	3.21E+04	-7.50E+05	6.34E+05
1/15	2.98E+03	-4.11E+04	4.08E+04	-4.06E+04	4.05E+04	-6.54E+05	5.64E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

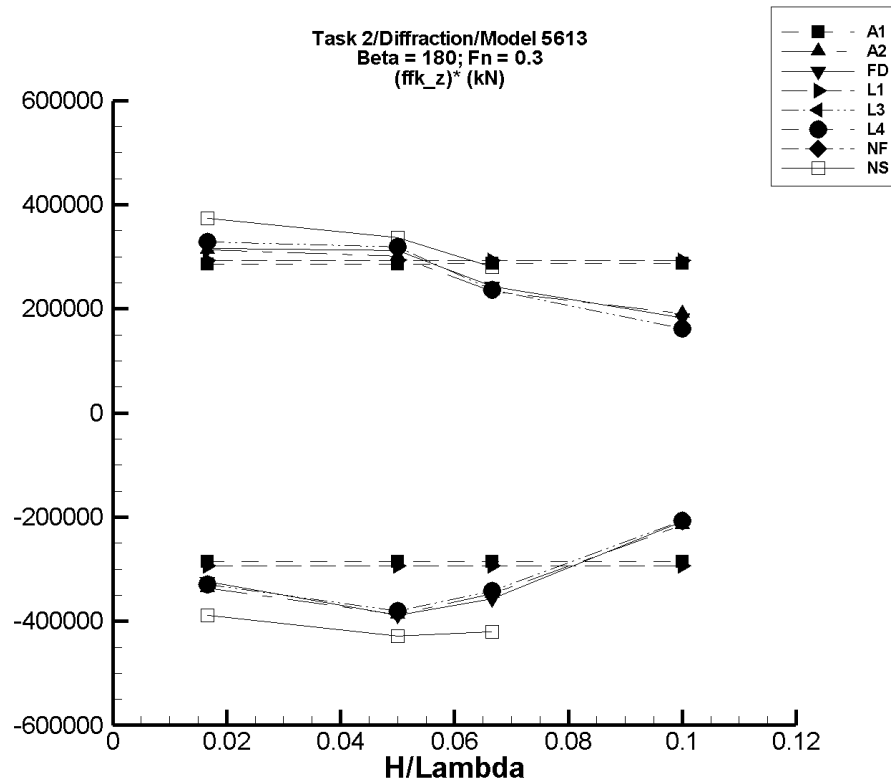


Figure Q-146. Minimum and maximum of filtered  $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1161. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.21	-4.90E+03	4.91E+03	-4.75E+03	4.76E+03	-2.85E+05	2.85E+05
1/20	-6.65	-1.47E+04	1.48E+04	-1.43E+04	1.43E+04	-2.86E+05	2.86E+05
1/15	-8.87	-1.97E+04	1.97E+04	-1.91E+04	1.91E+04	-2.86E+05	2.87E+05
1/10	-13.3	-2.95E+04	2.96E+04	-2.86E+04	2.86E+04	-2.86E+05	2.87E+05

Table Q–1162. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	601.	-5.20E+03	5.98E+03	-5.00E+03	5.83E+03	-3.36E+05	3.14E+05
1/20	6.44E+03	-1.34E+04	2.13E+04	-1.29E+04	2.15E+04	-3.87E+05	3.00E+05
1/15	1.34E+04	-1.12E+04	2.94E+04	-9.77E+03	2.90E+04	-3.48E+05	2.34E+05
1/10	2.62E+04	3.06E+03	4.76E+04	4.69E+03	4.53E+04	-2.15E+05	1.91E+05



Table Q-1163. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	698.	-4.87E+03	6.13E+03	-4.70E+03	5.96E+03	-3.24E+05	3.16E+05
1/20	5.48E+03	-1.43E+04	2.15E+04	-1.39E+04	2.11E+04	-3.88E+05	3.12E+05
1/15	1.18E+04	-1.31E+04	2.83E+04	-1.19E+04	2.81E+04	-3.57E+05	2.43E+05
1/10	2.74E+04	4.02E+03	4.63E+04	6.63E+03	4.57E+04	-2.08E+05	1.83E+05

Table Q-1164. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	7.89	-4.93E+03	4.93E+03	-4.88E+03	4.88E+03	-2.93E+05	2.92E+05
1/20	23.7	-1.48E+04	1.48E+04	-1.46E+04	1.46E+04	-2.93E+05	2.92E+05
1/15	31.6	-1.97E+04	1.97E+04	-1.95E+04	1.95E+04	-2.93E+05	2.92E+05
1/10	47.3	-2.96E+04	2.96E+04	-2.93E+04	2.93E+04	-2.93E+05	2.92E+05

Table Q-1165. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	84.5	-5.47E+03	5.62E+03	-5.41E+03	5.56E+03	-3.30E+05	3.29E+05
1/20	1.70E+03	-1.75E+04	1.78E+04	-1.73E+04	1.76E+04	-3.80E+05	3.18E+05
1/15	6.22E+03	-1.68E+04	2.20E+04	-1.65E+04	2.19E+04	-3.42E+05	2.36E+05
1/10	1.74E+04	-6.42E+03	3.39E+04	-3.26E+03	3.37E+04	-2.07E+05	1.62E+05

Table Q-1166. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>F_z^{\text{fk}}</math></b>		<b>Filtered <math>(F_z^{\text{fk}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	84.5	-5.47E+03	5.62E+03	-5.41E+03	5.56E+03	-3.30E+05	3.29E+05
1/20	1.70E+03	-1.75E+04	1.78E+04	-1.73E+04	1.76E+04	-3.80E+05	3.18E+05
1/15	6.22E+03	-1.68E+04	2.20E+04	-1.65E+04	2.19E+04	-3.42E+05	2.36E+05
1/10	1.74E+04	-6.42E+03	3.39E+04	-3.26E+03	3.37E+04	-2.07E+05	1.62E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1167. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1168. Minimum and Maximum of Variables  $F_z^{\text{fk}}$  and  $(F_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{fk}} \rangle$	Unfiltered $F_z^{\text{fk}}$		Filtered $F_z^{\text{fk}}$		Filtered $(F_z^{\text{fk}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-297.	-6.84E+03	6.00E+03	-6.78E+03	5.94E+03	-3.89E+05	3.74E+05
1/20	592.	-2.11E+04	1.77E+04	-2.09E+04	1.74E+04	-4.29E+05	3.36E+05
1/15	3.38E+03	-2.49E+04	2.27E+04	-2.47E+04	2.21E+04	-4.21E+05	2.81E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

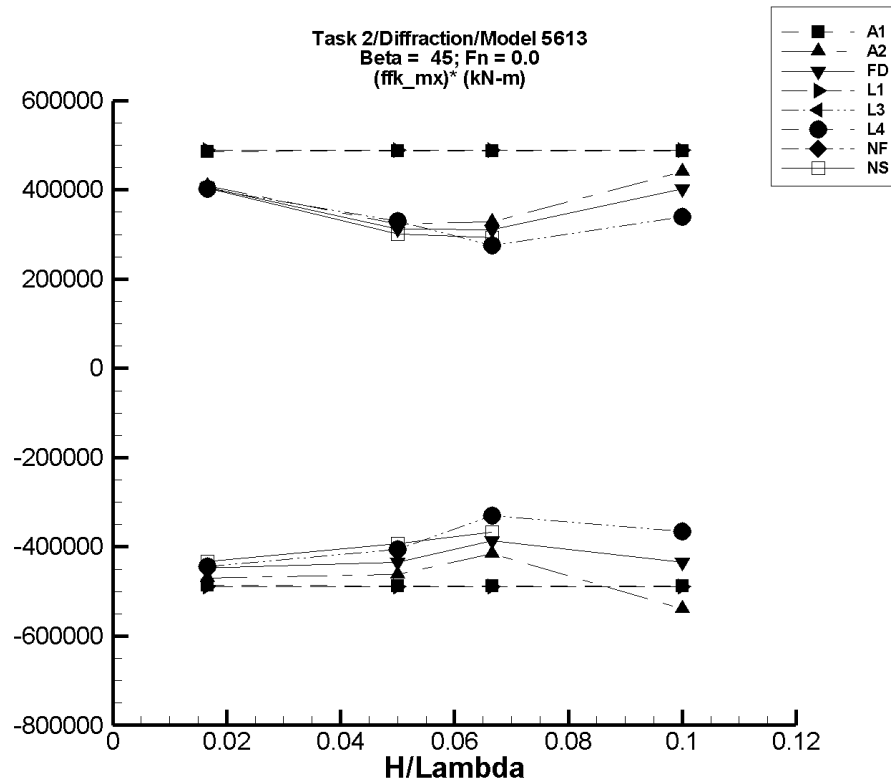


Figure Q-147. Minimum and maximum of filtered  $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1169. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.42	-8.18E+03	8.18E+03	-8.10E+03	8.10E+03	-4.86E+05	4.86E+05
1/20	7.29	-2.46E+04	2.46E+04	-2.44E+04	2.44E+04	-4.87E+05	4.87E+05
1/15	9.73	-3.28E+04	3.29E+04	-3.25E+04	3.25E+04	-4.88E+05	4.88E+05
1/10	14.6	-4.93E+04	4.93E+04	-4.88E+04	4.88E+04	-4.88E+05	4.88E+05

Table Q-1170. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.00	-8.04E+03	6.88E+03	-7.84E+03	6.81E+03	-4.70E+05	4.09E+05
1/20	-57.9	-2.49E+04	1.75E+04	-2.31E+04	1.61E+04	-4.61E+05	3.24E+05
1/15	9.71	-2.82E+04	3.10E+04	-2.76E+04	2.19E+04	-4.15E+05	3.29E+05
1/10	-1.84E+03	-9.03E+04	4.29E+04	-5.57E+04	4.22E+04	-5.39E+05	4.41E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1171. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-26.0	-7.58E+03	6.79E+03	-7.50E+03	6.74E+03	-4.48E+05	4.06E+05
1/20	-78.1	-2.21E+04	1.75E+04	-2.18E+04	1.55E+04	-4.35E+05	3.12E+05
1/15	67.1	-2.61E+04	2.12E+04	-2.57E+04	2.08E+04	-3.87E+05	3.11E+05
1/10	-467.	-4.60E+04	4.10E+04	-4.39E+04	3.98E+04	-4.35E+05	4.02E+05

Table Q-1172. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.05	-8.18E+03	8.18E+03	-8.15E+03	8.15E+03	-4.89E+05	4.89E+05
1/20	15.1	-2.45E+04	2.45E+04	-2.45E+04	2.45E+04	-4.89E+05	4.89E+05
1/15	20.2	-3.27E+04	3.27E+04	-3.26E+04	3.26E+04	-4.89E+05	4.89E+05
1/10	30.3	-4.91E+04	4.91E+04	-4.89E+04	4.89E+04	-4.89E+05	4.89E+05

Table Q-1173. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.329	-7.43E+03	6.72E+03	-7.40E+03	6.70E+03	-4.44E+05	4.02E+05
1/20	163.	-2.02E+04	1.85E+04	-2.01E+04	1.67E+04	-4.06E+05	3.30E+05
1/15	55.7	-2.22E+04	1.86E+04	-2.20E+04	1.84E+04	-3.31E+05	2.75E+05
1/10	-296.	-3.78E+04	3.45E+04	-3.69E+04	3.37E+04	-3.66E+05	3.40E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1174. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.329	-7.43E+03	6.72E+03	-7.40E+03	6.70E+03	-4.44E+05	4.02E+05
1/20	163.	-2.02E+04	1.85E+04	-2.01E+04	1.67E+04	-4.06E+05	3.30E+05
1/15	55.7	-2.22E+04	1.86E+04	-2.20E+04	1.84E+04	-3.31E+05	2.75E+05
1/10	-296.	-3.78E+04	3.45E+04	-3.69E+04	3.37E+04	-3.66E+05	3.40E+05

Table Q-1175. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1176. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	22.9	-7.27E+03	6.79E+03	-7.20E+03	6.75E+03	-4.33E+05	4.04E+05
1/20	-33.0	-1.98E+04	1.67E+04	-1.96E+04	1.51E+04	-3.92E+05	3.02E+05
1/15	-235.	-2.48E+04	2.20E+04	-2.47E+04	1.93E+04	-3.67E+05	2.93E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

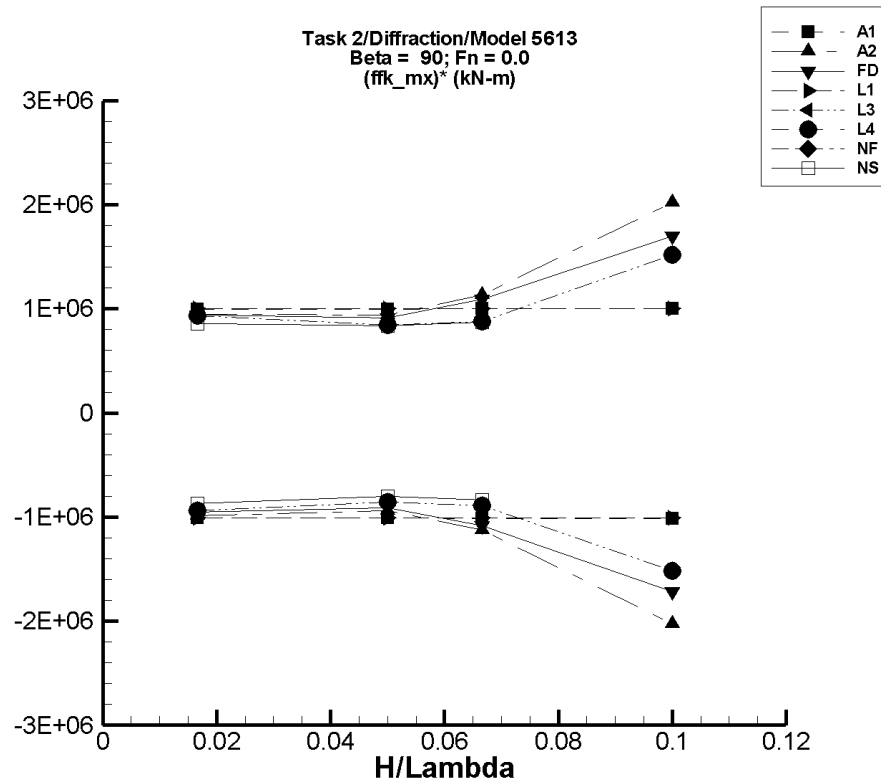


Figure Q-148. Minimum and maximum of filtered  $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1177. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	13.5	-1.68E+04	1.68E+04	-1.68E+04	1.66E+04	-1.01E+06	9.96E+05
1/20	40.5	-5.05E+04	5.05E+04	-5.05E+04	4.99E+04	-1.01E+06	9.98E+05
1/15	54.1	-6.74E+04	6.74E+04	-6.74E+04	6.67E+04	-1.01E+06	9.99E+05
1/10	81.2	-1.01E+05	1.01E+05	-1.01E+05	1.00E+05	-1.01E+06	9.99E+05

Table Q-1178. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.89	-1.68E+04	1.67E+04	-1.64E+04	1.58E+04	-9.84E+05	9.46E+05
1/20	-109.	-5.05E+04	5.01E+04	-4.70E+04	4.69E+04	-9.38E+05	9.40E+05
1/15	-170.	-7.82E+04	7.81E+04	-7.52E+04	7.52E+04	-1.12E+06	1.13E+06
1/10	291.	-2.33E+05	2.32E+05	-2.03E+05	2.02E+05	-2.03E+06	2.02E+06

Table Q-1179. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-41.9	-1.59E+04	1.60E+04	-1.59E+04	1.56E+04	-9.53E+05	9.39E+05
1/20	-64.6	-4.64E+04	4.64E+04	-4.56E+04	4.56E+04	-9.11E+05	9.14E+05
1/15	-150.	-7.45E+04	7.45E+04	-7.26E+04	7.25E+04	-1.09E+06	1.09E+06
1/10	872.	-1.94E+05	1.92E+05	-1.71E+05	1.71E+05	-1.72E+06	1.70E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1180. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	4.26	-1.68E+04	1.68E+04	-1.68E+04	1.67E+04	-1.01E+06	1.00E+06
1/20	12.8	-5.03E+04	5.03E+04	-5.04E+04	5.01E+04	-1.01E+06	1.00E+06
1/15	17.0	-6.70E+04	6.70E+04	-6.73E+04	6.68E+04	-1.01E+06	1.00E+06
1/10	25.5	-1.01E+05	1.01E+05	-1.01E+05	1.00E+05	-1.01E+06	1.00E+06

Table Q-1181. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	-11.7	-1.56E+04	1.56E+04	-1.57E+04	1.55E+04	-9.40E+05	9.30E+05
1/20	70.4	-4.28E+04	4.28E+04	-4.26E+04	4.22E+04	-8.53E+05	8.43E+05
1/15	318.	-5.94E+04	5.94E+04	-5.89E+04	5.89E+04	-8.88E+05	8.79E+05
1/10	-136.	-1.56E+05	1.56E+05	-1.52E+05	1.52E+05	-1.52E+06	1.52E+06

Table Q-1182. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	-11.7	-1.56E+04	1.56E+04	-1.57E+04	1.55E+04	-9.40E+05	9.30E+05
1/20	70.4	-4.28E+04	4.28E+04	-4.26E+04	4.22E+04	-8.53E+05	8.43E+05
1/15	318.	-5.94E+04	5.94E+04	-5.89E+04	5.89E+04	-8.88E+05	8.79E+05
1/10	-136.	-1.56E+05	1.56E+05	-1.52E+05	1.52E+05	-1.52E+06	1.52E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1183. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1184. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	55.5	-1.44E+04	1.46E+04	-1.44E+04	1.44E+04	-8.70E+05	8.60E+05
1/20	56.8	-4.07E+04	4.27E+04	-4.01E+04	4.19E+04	-8.02E+05	8.38E+05
1/15	-161.	-5.67E+04	5.87E+04	-5.60E+04	5.80E+04	-8.37E+05	8.73E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

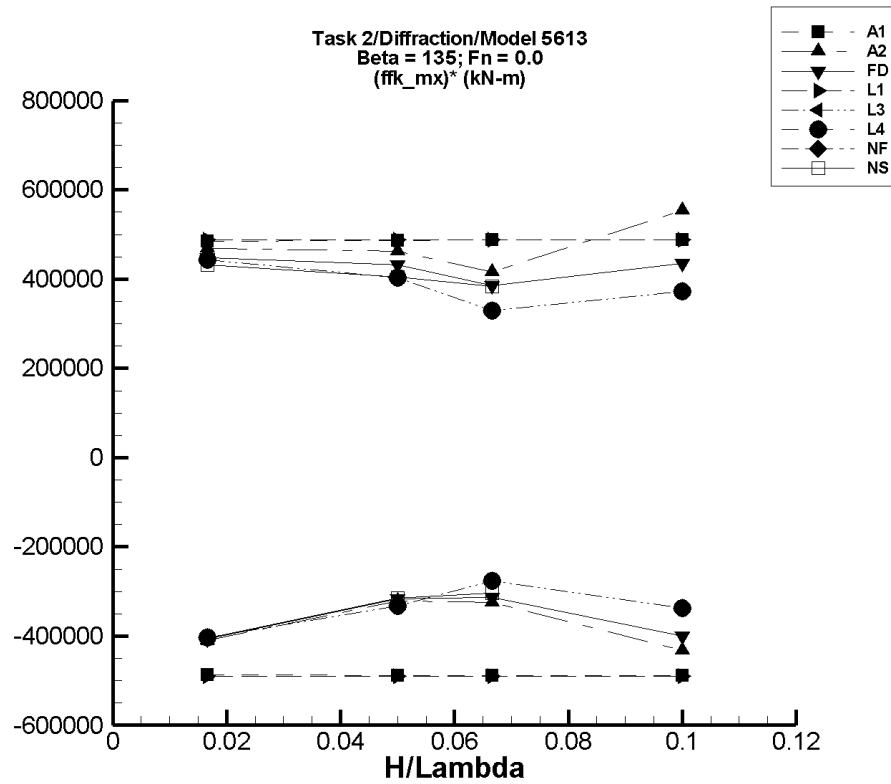


Figure Q-149. Minimum and maximum of filtered  $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1185. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.35	-8.18E+03	8.18E+03	-8.11E+03	8.10E+03	-4.87E+05	4.86E+05
1/20	25.1	-2.46E+04	2.46E+04	-2.44E+04	2.44E+04	-4.88E+05	4.87E+05
1/15	33.5	-3.29E+04	3.29E+04	-3.26E+04	3.25E+04	-4.89E+05	4.87E+05
1/10	50.3	-4.93E+04	4.93E+04	-4.88E+04	4.88E+04	-4.89E+05	4.87E+05

Table Q-1186. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	31.6	-6.88E+03	8.03E+03	-6.80E+03	7.83E+03	-4.10E+05	4.68E+05
1/20	-64.5	-1.98E+04	2.48E+04	-1.61E+04	2.31E+04	-3.21E+05	4.63E+05
1/15	162.	-2.22E+04	3.60E+04	-2.15E+04	2.79E+04	-3.25E+05	4.16E+05
1/10	637.	-4.35E+04	5.99E+04	-4.26E+04	5.60E+04	-4.33E+05	5.53E+05

Table Q-1187. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	23.9	-6.79E+03	7.58E+03	-6.74E+03	7.49E+03	-4.06E+05	4.48E+05
1/20	188.	-1.76E+04	2.21E+04	-1.56E+04	2.18E+04	-3.17E+05	4.33E+05
1/15	85.4	-2.12E+04	2.61E+04	-2.08E+04	2.58E+04	-3.14E+05	3.85E+05
1/10	166.	-4.11E+04	4.64E+04	-3.98E+04	4.37E+04	-4.00E+05	4.35E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1188. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.47	-8.18E+03	8.18E+03	-8.15E+03	8.15E+03	-4.90E+05	4.89E+05
1/20	19.4	-2.45E+04	2.45E+04	-2.45E+04	2.45E+04	-4.90E+05	4.89E+05
1/15	25.9	-3.27E+04	3.27E+04	-3.26E+04	3.26E+04	-4.90E+05	4.89E+05
1/10	38.8	-4.91E+04	4.91E+04	-4.89E+04	4.89E+04	-4.90E+05	4.89E+05

Table Q-1189. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.52	-6.72E+03	7.43E+03	-6.70E+03	7.40E+03	-4.03E+05	4.44E+05
1/20	-42.0	-1.85E+04	2.02E+04	-1.66E+04	2.01E+04	-3.32E+05	4.04E+05
1/15	20.2	-1.86E+04	2.22E+04	-1.84E+04	2.20E+04	-2.76E+05	3.30E+05
1/10	131.	-3.44E+04	3.78E+04	-3.37E+04	3.74E+04	-3.38E+05	3.73E+05

Table Q-1190. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.52	-6.72E+03	7.43E+03	-6.70E+03	7.40E+03	-4.03E+05	4.44E+05
1/20	-42.0	-1.85E+04	2.02E+04	-1.66E+04	2.01E+04	-3.32E+05	4.04E+05
1/15	20.2	-1.86E+04	2.22E+04	-1.84E+04	2.20E+04	-2.76E+05	3.30E+05
1/10	131.	-3.44E+04	3.78E+04	-3.37E+04	3.74E+04	-3.38E+05	3.73E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1191. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1192. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	38.5	-6.76E+03	7.31E+03	-6.71E+03	7.24E+03	-4.05E+05	4.32E+05
1/20	24.3	-1.80E+04	2.05E+04	-1.57E+04	2.03E+04	-3.15E+05	4.05E+05
1/15	-239.	-2.20E+04	2.56E+04	-2.05E+04	2.53E+04	-3.04E+05	3.83E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

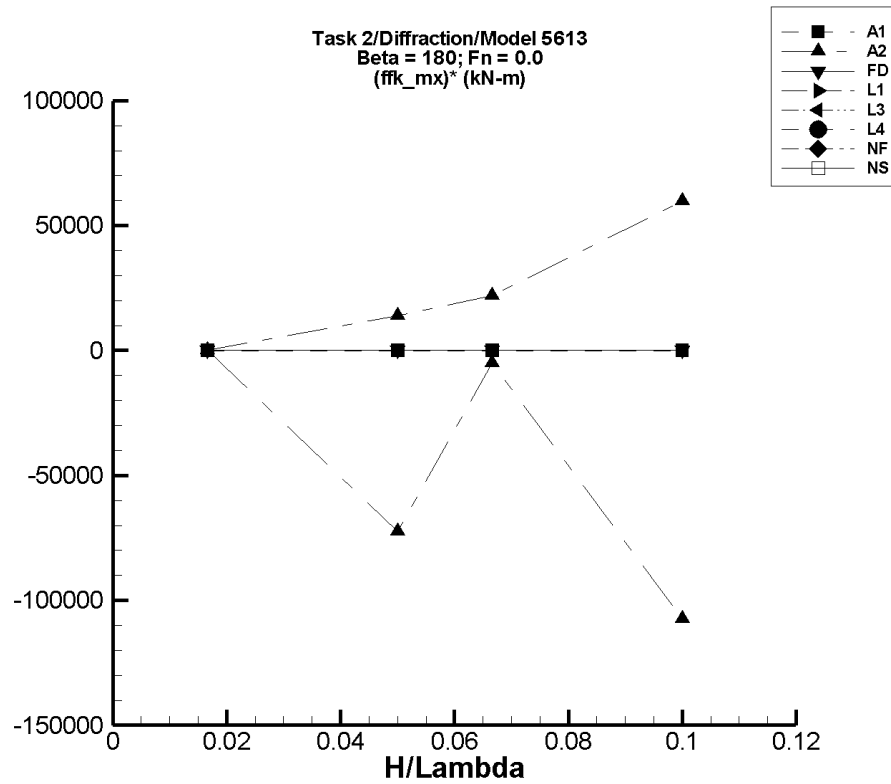


Figure Q-150. Minimum and maximum of filtered  $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1193. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.07E-06	-3.66E-02	3.66E-02	-3.62E-02	3.62E-02	-2.18	2.17
1/20	2.43E-05	-0.110	0.110	-0.109	0.109	-2.18	2.18
1/15	3.24E-05	-0.147	0.147	-0.146	0.146	-2.18	2.18
1/10	4.86E-05	-0.221	0.221	-0.218	0.218	-2.18	2.18

Table Q-1194. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.07E-04	-6.53E-03	6.53E-03	-6.46E-03	6.28E-03	-0.381	0.383
1/20	-322.	-2.97E+04	1.95E+02	-3.95E+03	377.	-7.25E+04	1.40E+04
1/15	30.9	-2.36E+03	1.12E+04	-313.	1.50E+03	-5.15E+03	2.20E+04
1/10	-475.	-8.49E+04	3.80E+04	-1.12E+04	5.50E+03	-1.08E+05	5.97E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1195. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.67E-05	-4.90E-03	3.72E-03	-8.05E-04	7.17E-04	-4.25E-02	4.88E-02
1/20	1.08E-02	-1.76E-02	5.16E-02	-2.58E-03	4.80E-02	-0.268	0.743
1/15	1.12E-02	-1.66E-02	5.03E-02	-6.63E-03	3.23E-02	-0.267	0.318
1/10	5.20E-03	-0.100	9.24E-02	-1.53E-02	2.13E-02	-0.205	0.161

Table Q–1196. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1197. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

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Table Q-1198. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1199. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1200. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.09E-05	-3.42E-03	4.22E-03	-1.34E-03	9.45E-04	-7.80E-02	5.91E-02
1/20	-1.05E-03	-1.26E-02	1.18E-02	-4.20E-03	1.86E-03	-6.30E-02	5.83E-02
1/15	-2.07E-04	-2.09E-02	1.92E-02	-5.10E-03	4.26E-03	-7.33E-02	6.70E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

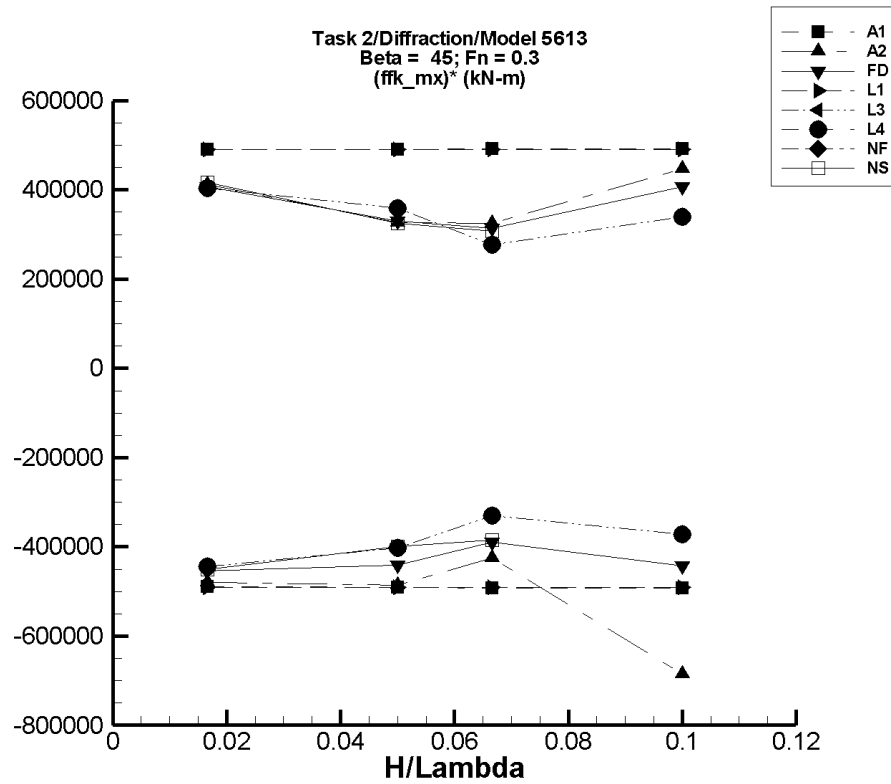


Figure Q-151. Minimum and maximum of filtered  $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1201. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.531	-8.18E+03	8.18E+03	-8.17E+03	8.17E+03	-4.90E+05	4.90E+05
1/20	-1.60	-2.46E+04	2.46E+04	-2.46E+04	2.46E+04	-4.91E+05	4.91E+05
1/15	-2.14	-3.29E+04	3.29E+04	-3.28E+04	3.28E+04	-4.92E+05	4.92E+05
1/10	-3.21	-4.93E+04	4.93E+04	-4.92E+04	4.92E+04	-4.92E+05	4.92E+05

Table Q–1202. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.44	-8.04E+03	6.88E+03	-7.98E+03	6.86E+03	-4.79E+05	4.12E+05
1/20	-216.	-2.49E+04	1.78E+04	-2.45E+04	1.61E+04	-4.86E+05	3.26E+05
1/15	-55.1	-3.34E+04	2.18E+04	-2.84E+04	2.16E+04	-4.25E+05	3.26E+05
1/10	-1.16E+03	-1.46E+05	4.33E+04	-6.97E+04	4.36E+04	-6.86E+05	4.48E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1203. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.99	-7.58E+03	6.79E+03	-7.56E+03	6.77E+03	-4.53E+05	4.07E+05
1/20	3.93	-2.21E+04	1.75E+04	-2.20E+04	1.65E+04	-4.41E+05	3.29E+05
1/15	-11.1	-2.61E+04	2.12E+04	-2.60E+04	2.10E+04	-3.90E+05	3.14E+05
1/10	-449.	-4.63E+04	4.10E+04	-4.46E+04	4.03E+04	-4.42E+05	4.08E+05

Table Q-1204. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.169	-8.18E+03	8.18E+03	-8.18E+03	8.18E+03	-4.91E+05	4.91E+05
1/20	-0.511	-2.45E+04	2.45E+04	-2.45E+04	2.45E+04	-4.91E+05	4.91E+05
1/15	-0.672	-3.27E+04	3.27E+04	-3.27E+04	3.27E+04	-4.91E+05	4.91E+05
1/10	-1.02	-4.91E+04	4.91E+04	-4.91E+04	4.91E+04	-4.91E+05	4.91E+05

Table Q-1205. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.92	-7.43E+03	6.72E+03	-7.42E+03	6.72E+03	-4.45E+05	4.03E+05
1/20	-66.6	-2.02E+04	1.85E+04	-2.02E+04	1.78E+04	-4.03E+05	3.58E+05
1/15	-19.5	-2.22E+04	1.86E+04	-2.21E+04	1.85E+04	-3.31E+05	2.78E+05
1/10	-168.	-3.78E+04	3.45E+04	-3.73E+04	3.39E+04	-3.71E+05	3.40E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1206. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.92	-7.43E+03	6.72E+03	-7.42E+03	6.72E+03	-4.45E+05	4.03E+05
1/20	-66.6	-2.02E+04	1.85E+04	-2.02E+04	1.78E+04	-4.03E+05	3.58E+05
1/15	-19.5	-2.22E+04	1.86E+04	-2.21E+04	1.85E+04	-3.31E+05	2.78E+05
1/10	-168.	-3.78E+04	3.45E+04	-3.73E+04	3.39E+04	-3.71E+05	3.40E+05

Table Q-1207. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1208. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.60	-7.59E+03	7.00E+03	-7.52E+03	6.94E+03	-4.51E+05	4.16E+05
1/20	-134.	-2.03E+04	1.65E+04	-2.01E+04	1.61E+04	-4.00E+05	3.25E+05
1/15	-436.	-2.62E+04	2.12E+04	-2.61E+04	2.01E+04	-3.85E+05	3.08E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

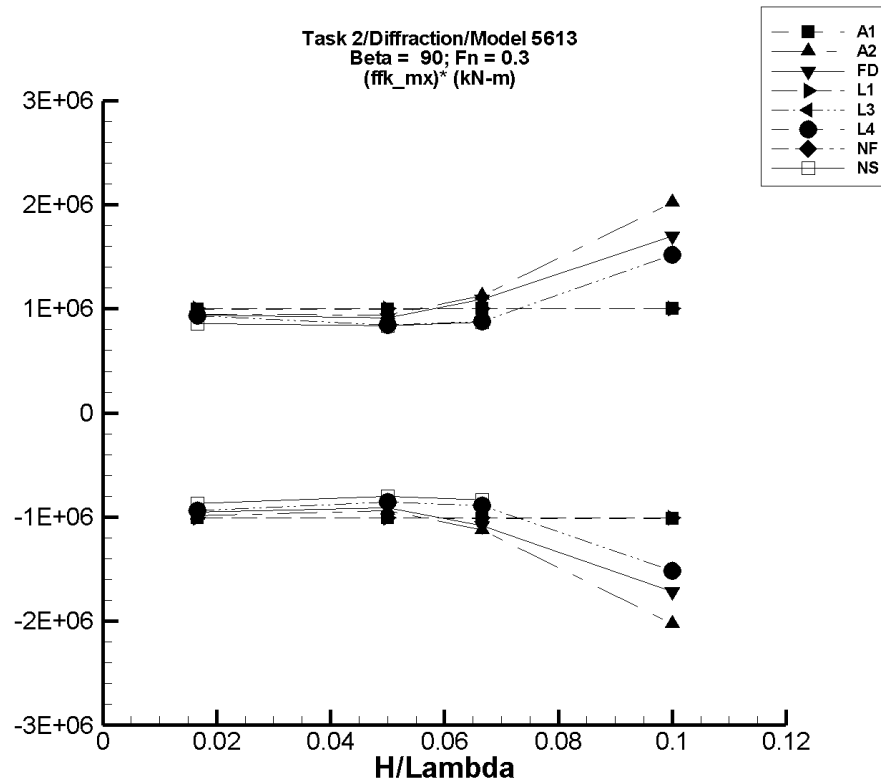


Figure Q-152. Minimum and maximum of filtered  $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1209. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	13.5	-1.68E+04	1.68E+04	-1.68E+04	1.66E+04	-1.01E+06	9.96E+05
1/20	40.5	-5.05E+04	5.05E+04	-5.05E+04	4.99E+04	-1.01E+06	9.98E+05
1/15	54.1	-6.74E+04	6.74E+04	-6.74E+04	6.67E+04	-1.01E+06	9.99E+05
1/10	81.2	-1.01E+05	1.01E+05	-1.01E+05	1.00E+05	-1.01E+06	9.99E+05

Table Q-1210. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.89	-1.68E+04	1.67E+04	-1.64E+04	1.58E+04	-9.84E+05	9.46E+05
1/20	-109.	-5.05E+04	5.01E+04	-4.70E+04	4.69E+04	-9.38E+05	9.40E+05
1/15	-22.7	-7.82E+04	7.81E+04	-7.52E+04	7.52E+04	-1.13E+06	1.13E+06
1/10	291.	-2.33E+05	2.32E+05	-2.03E+05	2.02E+05	-2.03E+06	2.02E+06

Table Q-1211. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-41.9	-1.59E+04	1.60E+04	-1.59E+04	1.56E+04	-9.53E+05	9.39E+05
1/20	-64.6	-4.64E+04	4.64E+04	-4.56E+04	4.56E+04	-9.11E+05	9.14E+05
1/15	-150.	-7.45E+04	7.45E+04	-7.26E+04	7.25E+04	-1.09E+06	1.09E+06
1/10	872.	-1.94E+05	1.92E+05	-1.71E+05	1.71E+05	-1.72E+06	1.70E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1212. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	4.26	-1.68E+04	1.68E+04	-1.68E+04	1.67E+04	-1.01E+06	1.00E+06
1/20	12.8	-5.03E+04	5.03E+04	-5.04E+04	5.01E+04	-1.01E+06	1.00E+06
1/15	17.0	-6.70E+04	6.70E+04	-6.73E+04	6.68E+04	-1.01E+06	1.00E+06
1/10	25.6	-1.01E+05	1.01E+05	-1.01E+05	1.00E+05	-1.01E+06	1.00E+06

Table Q-1213. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	-11.7	-1.56E+04	1.56E+04	-1.57E+04	1.55E+04	-9.40E+05	9.30E+05
1/20	70.4	-4.28E+04	4.28E+04	-4.26E+04	4.22E+04	-8.53E+05	8.43E+05
1/15	318.	-5.94E+04	5.94E+04	-5.89E+04	5.89E+04	-8.88E+05	8.79E+05
1/10	-136.	-1.56E+05	1.56E+05	-1.52E+05	1.52E+05	-1.52E+06	1.52E+06

Table Q-1214. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$ Mean (kN-m)	Unfiltered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $M_x^{fk}$ Min.      Max. (kN-m)      (kN-m)		Filtered $(M_x^{fk})^*$ Min.      Max. (kN-m)      (kN-m)	
1/60	-11.7	-1.56E+04	1.56E+04	-1.57E+04	1.55E+04	-9.40E+05	9.30E+05
1/20	70.4	-4.28E+04	4.28E+04	-4.26E+04	4.22E+04	-8.53E+05	8.43E+05
1/15	318.	-5.94E+04	5.94E+04	-5.89E+04	5.89E+04	-8.88E+05	8.79E+05
1/10	-136.	-1.56E+05	1.56E+05	-1.52E+05	1.52E+05	-1.52E+06	1.52E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1215. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1216. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	55.5	-1.44E+04	1.46E+04	-1.44E+04	1.44E+04	-8.70E+05	8.60E+05
1/20	56.8	-4.07E+04	4.27E+04	-4.01E+04	4.19E+04	-8.02E+05	8.38E+05
1/15	-161.	-5.67E+04	5.87E+04	-5.60E+04	5.80E+04	-8.37E+05	8.73E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

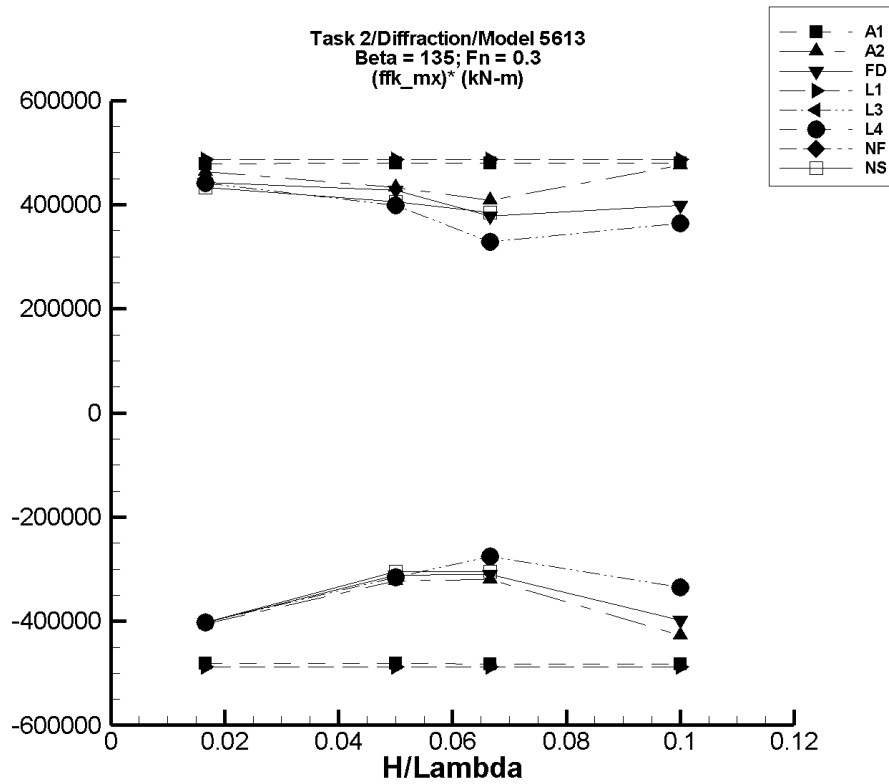


Figure Q-153. Minimum and maximum of filtered  $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1217. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.47	-8.18E+03	8.18E+03	-8.00E+03	7.98E+03	-4.80E+05	4.79E+05
1/20	13.4	-2.46E+04	2.46E+04	-2.41E+04	2.40E+04	-4.82E+05	4.80E+05
1/15	17.9	-3.29E+04	3.28E+04	-3.21E+04	3.21E+04	-4.82E+05	4.81E+05
1/10	26.9	-4.93E+04	4.93E+04	-4.82E+04	4.81E+04	-4.82E+05	4.81E+05

Table Q-1218. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	13.5	-6.88E+03	8.02E+03	-6.75E+03	7.73E+03	-4.06E+05	4.63E+05
1/20	27.3	-1.66E+04	2.47E+04	-1.61E+04	2.17E+04	-3.23E+05	4.34E+05
1/15	-78.9	-2.22E+04	2.82E+04	-2.14E+04	2.72E+04	-3.20E+05	4.09E+05
1/10	278.	-4.36E+04	6.04E+04	-4.24E+04	4.78E+04	-4.27E+05	4.75E+05

Table Q-1219. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	16.5	-6.79E+03	7.58E+03	-6.70E+03	7.39E+03	-4.03E+05	4.42E+05
1/20	0.895	-1.69E+04	2.21E+04	-1.56E+04	2.14E+04	-3.11E+05	4.28E+05
1/15	-70.9	-2.11E+04	2.61E+04	-2.07E+04	2.52E+04	-3.10E+05	3.79E+05
1/10	220.	-4.11E+04	4.64E+04	-3.96E+04	4.00E+04	-3.98E+05	3.98E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1220. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.871	-8.18E+03	8.18E+03	-8.12E+03	8.11E+03	-4.87E+05	4.87E+05
1/20	2.62	-2.45E+04	2.45E+04	-2.44E+04	2.43E+04	-4.87E+05	4.87E+05
1/15	3.48	-3.27E+04	3.27E+04	-3.25E+04	3.25E+04	-4.87E+05	4.87E+05
1/10	5.23	-4.91E+04	4.91E+04	-4.87E+04	4.87E+04	-4.87E+05	4.87E+05

Table Q-1221. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.31	-6.72E+03	7.43E+03	-6.70E+03	7.37E+03	-4.02E+05	4.42E+05
1/20	49.4	-1.83E+04	2.02E+04	-1.57E+04	2.00E+04	-3.15E+05	3.99E+05
1/15	-21.6	-1.86E+04	2.21E+04	-1.84E+04	2.19E+04	-2.76E+05	3.28E+05
1/10	-45.6	-3.44E+04	3.78E+04	-3.36E+04	3.64E+04	-3.36E+05	3.65E+05

Table Q-1222. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.31	-6.72E+03	7.43E+03	-6.70E+03	7.37E+03	-4.02E+05	4.42E+05
1/20	49.4	-1.83E+04	2.02E+04	-1.57E+04	2.00E+04	-3.15E+05	3.99E+05
1/15	-21.6	-1.86E+04	2.21E+04	-1.84E+04	2.19E+04	-2.76E+05	3.28E+05
1/10	-45.6	-3.44E+04	3.78E+04	-3.36E+04	3.64E+04	-3.36E+05	3.65E+05

Table Q-1223. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1224. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	53.1	-6.70E+03	7.33E+03	-6.66E+03	7.26E+03	-4.03E+05	4.33E+05
1/20	159.	-1.76E+04	2.06E+04	-1.51E+04	2.04E+04	-3.04E+05	4.06E+05
1/15	-122.	-2.19E+04	2.58E+04	-2.04E+04	2.55E+04	-3.04E+05	3.85E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

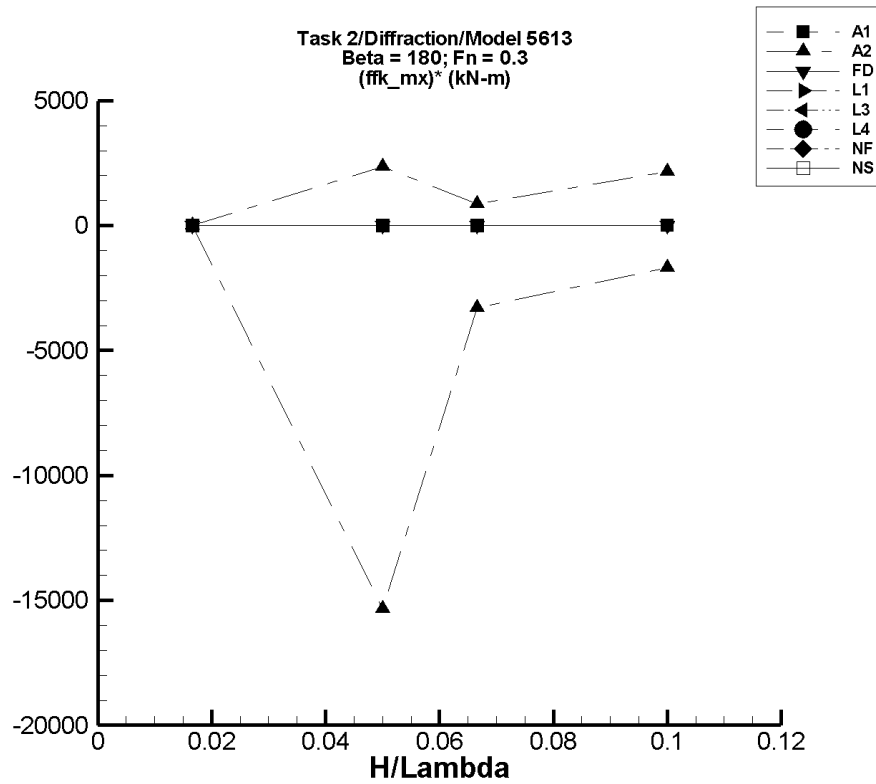


Figure Q-154. Minimum and maximum of filtered  $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q–1225. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.24E-05	-3.66E-02	3.66E-02	-3.55E-02	3.55E-02	-2.13	2.13
1/20	6.75E-05	-0.110	0.110	-0.107	0.107	-2.14	2.13
1/15	9.01E-05	-0.147	0.147	-0.143	0.142	-2.14	2.14
1/10	1.35E-04	-0.221	0.221	-0.214	0.214	-2.14	2.14

Table Q–1226. Minimum and Maximum of Variables  $M_x^{\text{fk}}$  and  $(M_x^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{fk}}$		Filtered $M_x^{\text{fk}}$		Filtered $(M_x^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.09E-04	-6.53E-03	6.47E-03	-6.33E-03	6.19E-03	-0.373	0.378
1/20	-47.7	-6.11E+03	1.95E-02	-814.	69.9	-1.53E+04	2.35E+03
1/15	-36.6	-1.92E+03	2.59E-02	-256.	21.8	-3.29E+03	876.
1/10	6.36	-1.11E+03	1.59E+03	-161.	221.	-1.67E+03	2.15E+03

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Table Q-1227. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.80E-04	-1.62E-02	2.50E-02	-6.88E-03	1.40E-02	-0.424	0.829
1/20	-4.26E-04	-3.27E-02	3.02E-02	-8.18E-03	7.12E-03	-0.155	0.151
1/15	2.40E-03	-4.71E-02	8.35E-02	-7.98E-03	1.93E-02	-0.156	0.254
1/10	-6.86E-03	-0.271	0.184	-0.129	6.84E-02	-1.22	0.753

Table Q-1228. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1229. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

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Table Q-1230. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1231. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1232. Minimum and Maximum of Variables  $M_x^{fk}$  and  $(M_x^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{fk} \rangle$	Unfiltered $M_x^{fk}$		Filtered $M_x^{fk}$		Filtered $(M_x^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.45E-05	-5.89E-03	4.74E-03	-1.37E-03	8.88E-04	-7.80E-02	5.78E-02
1/20	-6.83E-04	-1.32E-02	1.82E-02	-4.04E-03	3.69E-03	-6.71E-02	8.76E-02
1/15	6.63E-05	-3.91E-02	3.39E-02	-1.54E-02	5.80E-03	-0.231	8.60E-02
1/10	—	—	—	—	—	—	—

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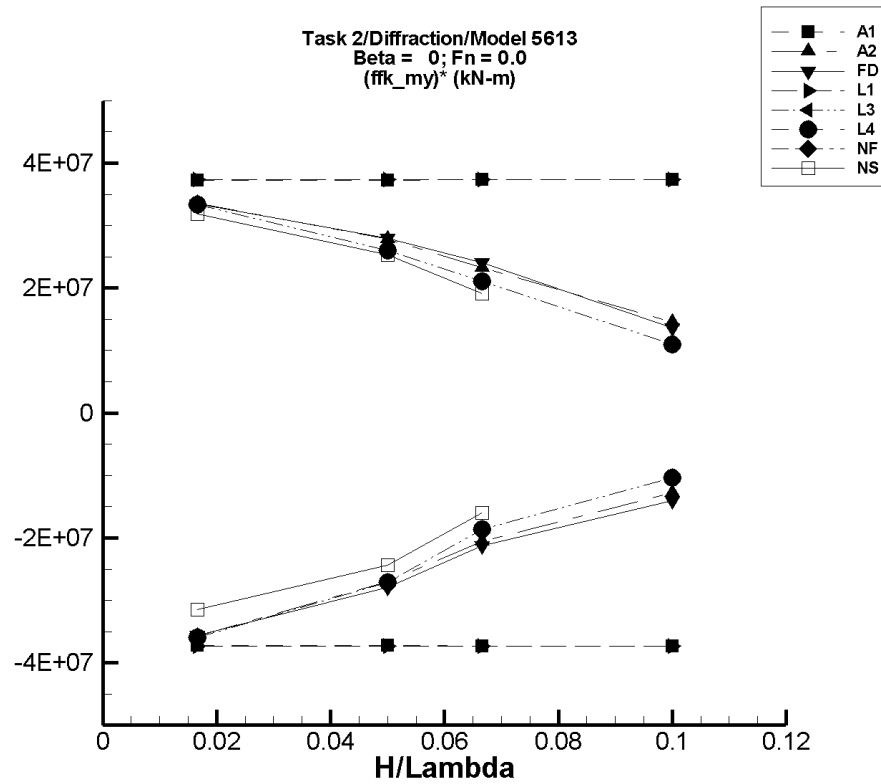


Figure Q-155. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1233. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-382.	-6.26E+05	6.26E+05	-6.20E+05	6.20E+05	-3.72E+07	3.72E+07
1/20	-1.15E+03	-1.88E+06	1.88E+06	-1.86E+06	1.86E+06	-3.73E+07	3.73E+07
1/15	-1.53E+03	-2.51E+06	2.51E+06	-2.49E+06	2.49E+06	-3.73E+07	3.74E+07
1/10	-2.30E+03	-3.77E+06	3.77E+06	-3.73E+06	3.73E+06	-3.73E+07	3.74E+07

Table Q-1234. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.62E+04	-5.72E+05	6.00E+05	-5.60E+05	5.95E+05	-3.58E+07	3.35E+07
1/20	2.55E+05	-1.18E+06	1.66E+06	-1.10E+06	1.65E+06	-2.70E+07	2.79E+07
1/15	3.91E+05	-1.00E+06	1.96E+06	-9.80E+05	1.94E+06	-2.06E+07	2.32E+07
1/10	1.56E+05	-1.17E+06	1.68E+06	-1.12E+06	1.61E+06	-1.28E+07	1.45E+07

Table Q-1235. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.81E+04	-5.67E+05	6.02E+05	-5.55E+05	5.95E+05	-3.56E+07	3.34E+07
1/20	2.51E+05	-1.23E+06	1.67E+06	-1.14E+06	1.65E+06	-2.79E+07	2.79E+07
1/15	3.74E+05	-1.05E+06	2.00E+06	-1.04E+06	1.98E+06	-2.12E+07	2.41E+07
1/10	2.30E+05	-1.19E+06	1.64E+06	-1.18E+06	1.59E+06	-1.41E+07	1.36E+07

Table Q-1236. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-604.	-6.25E+05	6.25E+05	-6.22E+05	6.22E+05	-3.73E+07	3.74E+07
1/20	-1.81E+03	-1.87E+06	1.87E+06	-1.87E+06	1.87E+06	-3.73E+07	3.74E+07
1/15	-2.42E+03	-2.50E+06	2.50E+06	-2.49E+06	2.49E+06	-3.73E+07	3.74E+07
1/10	-3.62E+03	-3.75E+06	3.75E+06	-3.73E+06	3.73E+06	-3.73E+07	3.74E+07

Table Q-1237. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.22E+04	-5.72E+05	5.90E+05	-5.67E+05	5.87E+05	-3.60E+07	3.33E+07
1/20	2.20E+05	-1.17E+06	1.53E+06	-1.14E+06	1.52E+06	-2.71E+07	2.60E+07
1/15	3.22E+05	-9.20E+05	1.73E+06	-9.15E+05	1.73E+06	-1.86E+07	2.10E+07
1/10	1.27E+05	-9.14E+05	1.30E+06	-9.05E+05	1.22E+06	-1.03E+07	1.09E+07

Table Q-1238. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.22E+04	-5.72E+05	5.90E+05	-5.67E+05	5.87E+05	-3.60E+07	3.33E+07
1/20	2.20E+05	-1.17E+06	1.53E+06	-1.14E+06	1.52E+06	-2.71E+07	2.60E+07
1/15	3.22E+05	-9.20E+05	1.73E+06	-9.15E+05	1.73E+06	-1.86E+07	2.10E+07
1/10	1.27E+05	-9.14E+05	1.30E+06	-9.05E+05	1.22E+06	-1.03E+07	1.09E+07

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Table Q-1239. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1240. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	831.	-5.30E+05	5.33E+05	-5.24E+05	5.32E+05	-3.15E+07	3.19E+07
1/20	1.12E+05	-1.18E+06	1.39E+06	-1.11E+06	1.38E+06	-2.44E+07	2.53E+07
1/15	1.11E+05	-9.66E+05	1.38E+06	-9.54E+05	1.38E+06	-1.60E+07	1.91E+07
1/10	—	—	—	—	—	—	—



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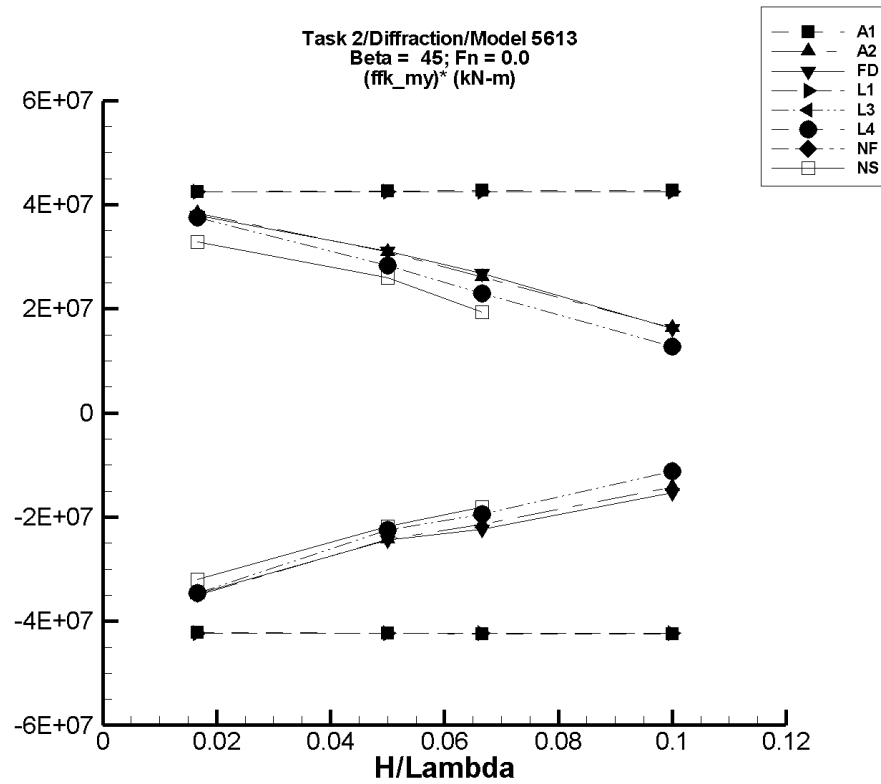


Figure Q-156. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1241. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-550.	-7.11E+05	7.11E+05	-7.04E+05	7.09E+05	-4.22E+07	4.25E+07
1/20	-1.65E+03	-2.14E+06	2.14E+06	-2.12E+06	2.13E+06	-4.23E+07	4.27E+07
1/15	-2.21E+03	-2.86E+06	2.86E+06	-2.83E+06	2.85E+06	-4.24E+07	4.27E+07
1/10	-3.31E+03	-4.29E+06	4.28E+06	-4.24E+06	4.27E+06	-4.24E+07	4.27E+07

Table Q-1242. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.66E+04	-5.52E+05	6.76E+05	-5.48E+05	6.77E+05	-3.51E+07	3.84E+07
1/20	2.53E+05	-9.76E+05	1.80E+06	-9.63E+05	1.80E+06	-2.43E+07	3.09E+07
1/15	3.92E+05	-1.06E+06	2.15E+06	-1.03E+06	2.13E+06	-2.14E+07	2.60E+07
1/10	1.72E+05	-1.27E+06	1.89E+06	-1.25E+06	1.81E+06	-1.43E+07	1.63E+07

Table Q-1243. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.83E+04	-5.44E+05	6.74E+05	-5.40E+05	6.70E+05	-3.47E+07	3.79E+07
1/20	2.44E+05	-9.89E+05	1.81E+06	-9.79E+05	1.80E+06	-2.45E+07	3.11E+07
1/15	3.70E+05	-1.13E+06	2.18E+06	-1.12E+06	2.16E+06	-2.23E+07	2.68E+07
1/10	2.06E+05	-1.34E+06	1.89E+06	-1.32E+06	1.82E+06	-1.53E+07	1.61E+07

Table Q-1244. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-278.	-7.09E+05	7.09E+05	-7.06E+05	7.08E+05	-4.23E+07	4.25E+07
1/20	-833.	-2.13E+06	2.13E+06	-2.12E+06	2.12E+06	-4.23E+07	4.25E+07
1/15	-1.11E+03	-2.83E+06	2.83E+06	-2.82E+06	2.83E+06	-4.23E+07	4.25E+07
1/10	-1.67E+03	-4.25E+06	4.25E+06	-4.24E+06	4.25E+06	-4.23E+07	4.25E+07

Table Q-1245. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.24E+04	-5.47E+05	6.59E+05	-5.45E+05	6.58E+05	-3.47E+07	3.75E+07
1/20	2.15E+05	-9.09E+05	1.63E+06	-9.07E+05	1.63E+06	-2.24E+07	2.84E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.73E+05	1.85E+06	-1.95E+07	2.29E+07
1/10	1.13E+05	-1.02E+06	1.45E+06	-1.01E+06	1.39E+06	-1.12E+07	1.28E+07

Table Q-1246. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.24E+04	-5.47E+05	6.59E+05	-5.45E+05	6.58E+05	-3.47E+07	3.75E+07
1/20	2.15E+05	-9.09E+05	1.63E+06	-9.07E+05	1.63E+06	-2.24E+07	2.84E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.73E+05	1.85E+06	-1.95E+07	2.29E+07
1/10	1.13E+05	-1.02E+06	1.45E+06	-1.01E+06	1.39E+06	-1.12E+07	1.28E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1247. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1248. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	547.	-5.37E+05	5.47E+05	-5.32E+05	5.49E+05	-3.19E+07	3.29E+07
1/20	1.07E+05	-1.00E+06	1.40E+06	-9.84E+05	1.41E+06	-2.18E+07	2.60E+07
1/15	1.09E+05	-1.12E+06	1.41E+06	-1.10E+06	1.40E+06	-1.81E+07	1.93E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

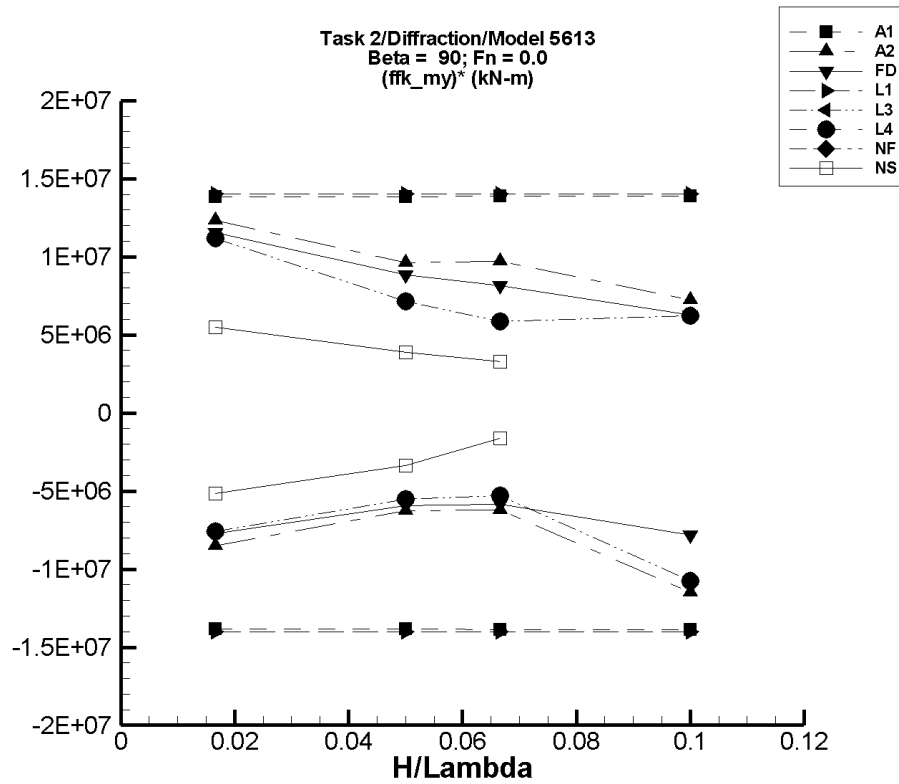


Figure Q-157. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1249. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-147.	-2.33E+05	2.33E+05	-2.30E+05	2.30E+05	-1.38E+07	1.38E+07
1/20	-442.	-7.00E+05	7.00E+05	-6.93E+05	6.92E+05	-1.38E+07	1.39E+07
1/15	-591.	-9.34E+05	9.34E+05	-9.25E+05	9.25E+05	-1.39E+07	1.39E+07
1/10	-886.	-1.40E+06	1.40E+06	-1.39E+06	1.39E+06	-1.39E+07	1.39E+07

Table Q–1250. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.70E+04	-1.05E+05	2.45E+05	-1.05E+05	2.43E+05	-8.51E+06	1.23E+07
1/20	2.56E+05	-7.26E+04	7.60E+05	-5.76E+04	7.36E+05	-6.28E+06	9.60E+06
1/15	3.96E+05	-4.19E+04	1.05E+06	-1.89E+04	1.04E+06	-6.22E+06	9.70E+06
1/10	1.91E+05	-1.08E+06	1.07E+06	-9.59E+05	9.15E+05	-1.15E+07	7.24E+06

Table Q-1251. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.89E+04	-9.03E+04	2.34E+05	-9.01E+04	2.32E+05	-7.74E+06	1.16E+07
1/20	2.51E+05	-6.25E+04	7.01E+05	-4.61E+04	6.94E+05	-5.95E+06	8.86E+06
1/15	3.79E+05	-3.65E+04	9.31E+05	-1.11E+04	9.22E+05	-5.85E+06	8.15E+06
1/10	2.27E+05	-6.39E+05	1.01E+06	-5.54E+05	8.56E+05	-7.82E+06	6.28E+06

Table Q-1252. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-96.8	-2.34E+05	2.34E+05	-2.33E+05	2.33E+05	-1.40E+07	1.40E+07
1/20	-290.	-7.02E+05	7.02E+05	-7.00E+05	7.00E+05	-1.40E+07	1.40E+07
1/15	-387.	-9.37E+05	9.37E+05	-9.33E+05	9.33E+05	-1.40E+07	1.40E+07
1/10	-581.	-1.40E+06	1.40E+06	-1.40E+06	1.40E+06	-1.40E+07	1.40E+07



Table Q-1253. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-9.38E+04	2.20E+05	-9.37E+04	2.19E+05	-7.60E+06	1.12E+07
1/20	2.19E+05	-6.40E+04	5.78E+05	-5.72E+04	5.77E+05	-5.52E+06	7.15E+06
1/15	3.25E+05	-3.64E+04	7.18E+05	-2.68E+04	7.16E+05	-5.27E+06	5.87E+06
1/10	1.02E+05	-9.36E+05	8.25E+05	-9.75E+05	7.27E+05	-1.08E+07	6.24E+06

Table Q-1254. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-9.38E+04	2.20E+05	-9.37E+04	2.19E+05	-7.60E+06	1.12E+07
1/20	2.19E+05	-6.40E+04	5.78E+05	-5.72E+04	5.77E+05	-5.52E+06	7.15E+06
1/15	3.25E+05	-3.64E+04	7.18E+05	-2.68E+04	7.16E+05	-5.27E+06	5.87E+06
1/10	1.02E+05	-9.36E+05	8.25E+05	-9.75E+05	7.27E+05	-1.08E+07	6.24E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1255. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1256. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	254.	-8.66E+04	9.28E+04	-8.59E+04	9.20E+04	-5.17E+06	5.51E+06
1/20	1.01E+05	-7.97E+04	2.99E+05	-6.80E+04	2.95E+05	-3.39E+06	3.88E+06
1/15	1.08E+05	-9.90E+03	3.30E+05	-627.	3.28E+05	-1.63E+06	3.30E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

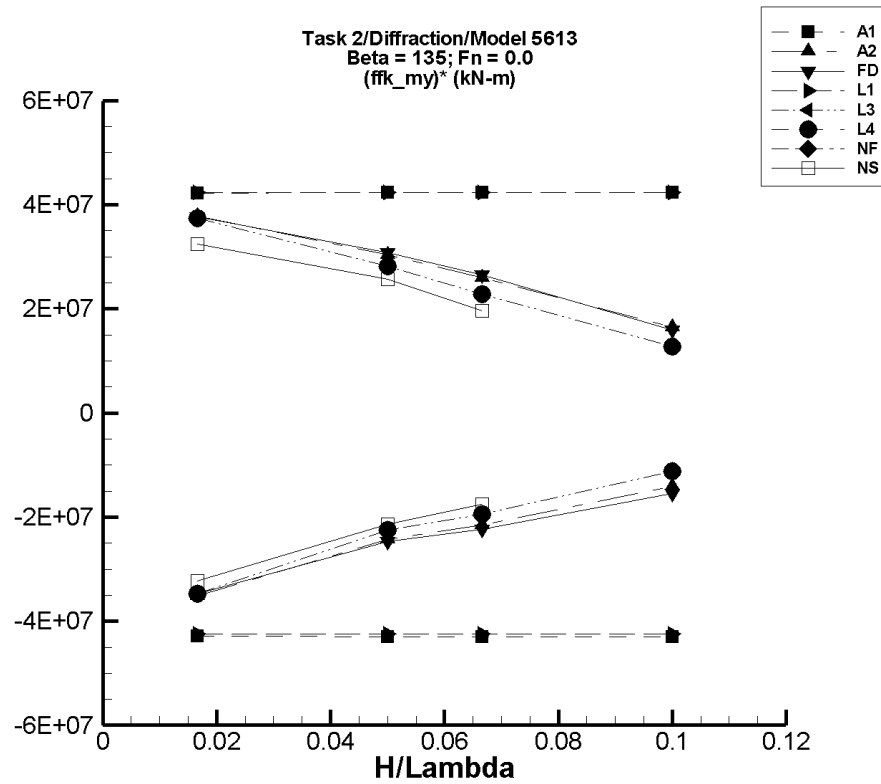


Figure Q-158. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1257. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	591.	-7.11E+05	7.11E+05	-7.13E+05	7.04E+05	-4.28E+07	4.22E+07
1/20	1.78E+03	-2.14E+06	2.14E+06	-2.14E+06	2.12E+06	-4.29E+07	4.23E+07
1/15	2.37E+03	-2.86E+06	2.86E+06	-2.86E+06	2.83E+06	-4.30E+07	4.24E+07
1/10	3.56E+03	-4.29E+06	4.29E+06	-4.30E+06	4.24E+06	-4.30E+07	4.24E+07

Table Q-1258. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.77E+04	-5.52E+05	6.76E+05	-5.49E+05	6.69E+05	-3.52E+07	3.79E+07
1/20	2.54E+05	-9.76E+05	1.79E+06	-9.62E+05	1.77E+06	-2.43E+07	3.04E+07
1/15	3.92E+05	-1.06E+06	2.15E+06	-1.04E+06	2.13E+06	-2.15E+07	2.60E+07
1/10	1.53E+05	-1.27E+06	1.89E+06	-1.25E+06	1.80E+06	-1.40E+07	1.65E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1259. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.93E+04	-5.44E+05	6.75E+05	-5.40E+05	6.68E+05	-3.48E+07	3.77E+07
1/20	2.50E+05	-9.89E+05	1.81E+06	-9.85E+05	1.79E+06	-2.47E+07	3.08E+07
1/15	3.76E+05	-1.13E+06	2.18E+06	-1.12E+06	2.15E+06	-2.24E+07	2.66E+07
1/10	2.25E+05	-1.34E+06	1.88E+06	-1.32E+06	1.81E+06	-1.55E+07	1.59E+07

Table Q-1260. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	747.	-7.09E+05	7.09E+05	-7.08E+05	7.06E+05	-4.25E+07	4.23E+07
1/20	2.24E+03	-2.13E+06	2.13E+06	-2.12E+06	2.12E+06	-4.25E+07	4.23E+07
1/15	2.99E+03	-2.83E+06	2.83E+06	-2.83E+06	2.82E+06	-4.25E+07	4.23E+07
1/10	4.48E+03	-4.25E+06	4.25E+06	-4.25E+06	4.24E+06	-4.25E+07	4.23E+07

Table Q-1261. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.34E+04	-5.47E+05	6.59E+05	-5.45E+05	6.57E+05	-3.47E+07	3.74E+07
1/20	2.19E+05	-9.09E+05	1.63E+06	-9.07E+05	1.63E+06	-2.25E+07	2.82E+07
1/15	3.26E+05	-9.76E+05	1.86E+06	-9.72E+05	1.85E+06	-1.95E+07	2.29E+07
1/10	1.16E+05	-1.02E+06	1.46E+06	-1.01E+06	1.39E+06	-1.12E+07	1.28E+07

Table Q-1262. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.34E+04	-5.47E+05	6.59E+05	-5.45E+05	6.57E+05	-3.47E+07	3.74E+07
1/20	2.19E+05	-9.09E+05	1.63E+06	-9.07E+05	1.63E+06	-2.25E+07	2.82E+07
1/15	3.26E+05	-9.76E+05	1.86E+06	-9.72E+05	1.85E+06	-1.95E+07	2.29E+07
1/10	1.16E+05	-1.02E+06	1.46E+06	-1.01E+06	1.39E+06	-1.12E+07	1.28E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1263. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1264. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	663.	-5.37E+05	5.47E+05	-5.36E+05	5.41E+05	-3.22E+07	3.24E+07
1/20	1.03E+05	-9.86E+05	1.40E+06	-9.63E+05	1.39E+06	-2.13E+07	2.57E+07
1/15	1.08E+05	-1.07E+06	1.43E+06	-1.06E+06	1.42E+06	-1.75E+07	1.97E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

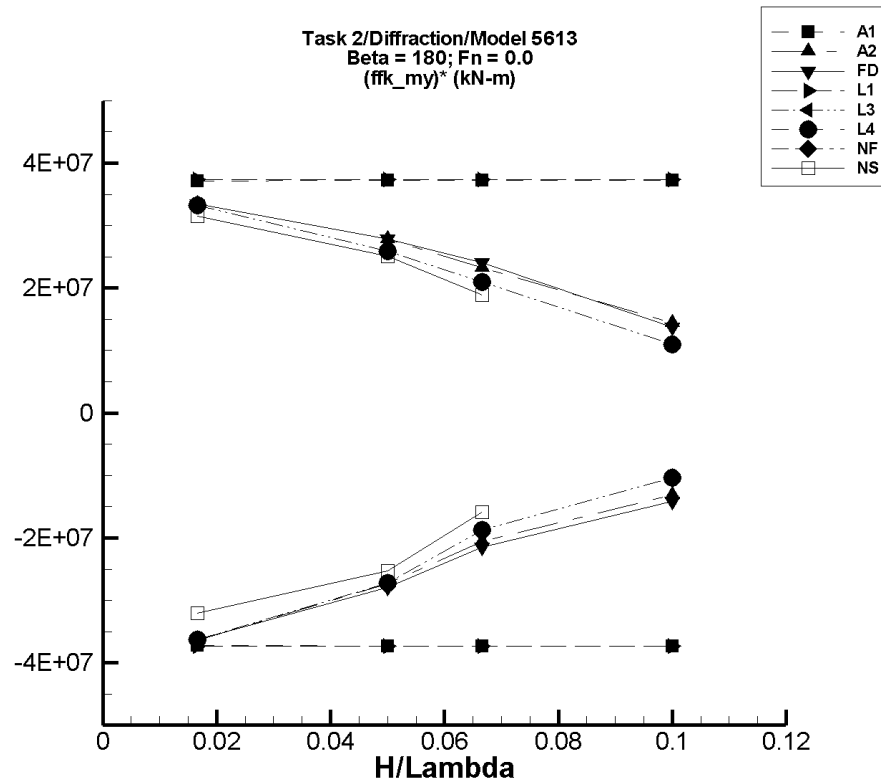


Figure Q-159. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1265. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	589.	-6.26E+05	6.26E+05	-6.20E+05	6.20E+05	-3.72E+07	3.71E+07
1/20	1.77E+03	-1.88E+06	1.88E+06	-1.86E+06	1.86E+06	-3.73E+07	3.72E+07
1/15	2.36E+03	-2.51E+06	2.51E+06	-2.49E+06	2.49E+06	-3.74E+07	3.73E+07
1/10	3.55E+03	-3.77E+06	3.77E+06	-3.73E+06	3.73E+06	-3.74E+07	3.73E+07

Table Q-1266. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.72E+04	-5.73E+05	6.00E+05	-5.70E+05	5.95E+05	-3.65E+07	3.35E+07
1/20	2.58E+05	-1.18E+06	1.67E+06	-1.11E+06	1.65E+06	-2.74E+07	2.78E+07
1/15	3.93E+05	-9.86E+05	1.96E+06	-9.80E+05	1.94E+06	-2.06E+07	2.32E+07
1/10	1.66E+05	-1.17E+06	1.66E+06	-1.15E+06	1.61E+06	-1.32E+07	1.44E+07

Table Q-1267. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.76E+04	-5.67E+05	6.02E+05	-5.67E+05	5.96E+05	-3.63E+07	3.35E+07
1/20	2.53E+05	-1.23E+06	1.67E+06	-1.14E+06	1.65E+06	-2.80E+07	2.79E+07
1/15	3.77E+05	-1.05E+06	2.00E+06	-1.05E+06	1.98E+06	-2.15E+07	2.41E+07
1/10	2.19E+05	-1.19E+06	1.67E+06	-1.19E+06	1.59E+06	-1.41E+07	1.37E+07

Table Q-1268. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	378.	-6.25E+05	6.25E+05	-6.22E+05	6.22E+05	-3.74E+07	3.73E+07
1/20	1.13E+03	-1.87E+06	1.87E+06	-1.87E+06	1.87E+06	-3.74E+07	3.73E+07
1/15	1.51E+03	-2.50E+06	2.50E+06	-2.49E+06	2.49E+06	-3.74E+07	3.73E+07
1/10	2.27E+03	-3.75E+06	3.75E+06	-3.73E+06	3.73E+06	-3.74E+07	3.73E+07

Table Q-1269. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.28E+04	-5.72E+05	5.90E+05	-5.72E+05	5.87E+05	-3.63E+07	3.33E+07
1/20	2.25E+05	-1.17E+06	1.53E+06	-1.13E+06	1.52E+06	-2.72E+07	2.59E+07
1/15	3.26E+05	-9.20E+05	1.73E+06	-9.21E+05	1.73E+06	-1.87E+07	2.10E+07
1/10	1.29E+05	-9.14E+05	1.31E+06	-9.05E+05	1.23E+06	-1.03E+07	1.10E+07

Table Q-1270. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.28E+04	-5.72E+05	5.90E+05	-5.72E+05	5.87E+05	-3.63E+07	3.33E+07
1/20	2.25E+05	-1.17E+06	1.53E+06	-1.13E+06	1.52E+06	-2.72E+07	2.59E+07
1/15	3.26E+05	-9.20E+05	1.73E+06	-9.21E+05	1.73E+06	-1.87E+07	2.10E+07
1/10	1.29E+05	-9.14E+05	1.31E+06	-9.05E+05	1.23E+06	-1.03E+07	1.10E+07

Table Q-1271. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1272. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.19E+03	-5.31E+05	5.32E+05	-5.32E+05	5.27E+05	-3.20E+07	3.15E+07
1/20	1.14E+05	-1.21E+06	1.39E+06	-1.15E+06	1.37E+06	-2.53E+07	2.51E+07
1/15	1.09E+05	-9.89E+05	1.38E+06	-9.52E+05	1.37E+06	-1.59E+07	1.89E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

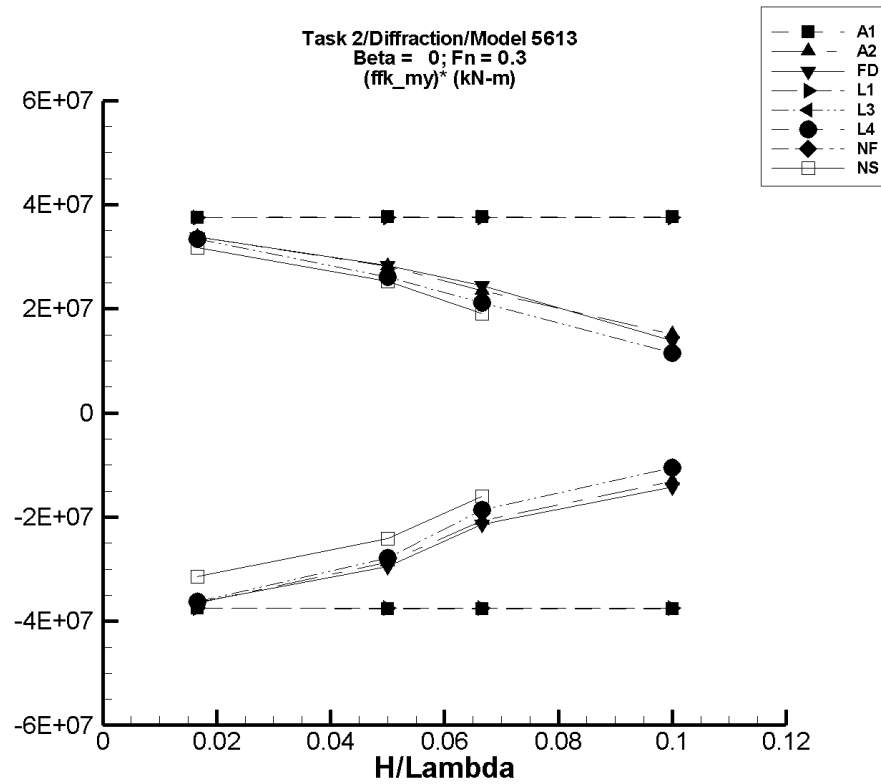


Figure Q-160. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1273. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-11.0	-6.26E+05	6.26E+05	-6.26E+05	6.26E+05	-3.75E+07	3.75E+07
1/20	-33.4	-1.88E+06	1.88E+06	-1.88E+06	1.88E+06	-3.76E+07	3.76E+07
1/15	-44.5	-2.51E+06	2.51E+06	-2.51E+06	2.51E+06	-3.77E+07	3.77E+07
1/10	-66.2	-3.77E+06	3.77E+06	-3.77E+06	3.77E+06	-3.77E+07	3.77E+07

Table Q-1274. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.66E+04	-5.73E+05	6.00E+05	-5.72E+05	6.00E+05	-3.65E+07	3.38E+07
1/20	2.56E+05	-1.18E+06	1.67E+06	-1.18E+06	1.66E+06	-2.87E+07	2.82E+07
1/15	3.94E+05	-1.00E+06	1.96E+06	-9.82E+05	1.96E+06	-2.06E+07	2.35E+07
1/10	1.51E+05	-1.17E+06	1.67E+06	-1.16E+06	1.66E+06	-1.31E+07	1.51E+07

Table Q-1275. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.81E+04	-5.67E+05	6.02E+05	-5.68E+05	6.01E+05	-3.64E+07	3.38E+07
1/20	2.51E+05	-1.23E+06	1.67E+06	-1.22E+06	1.67E+06	-2.95E+07	2.83E+07
1/15	3.74E+05	-1.05E+06	2.00E+06	-1.05E+06	2.00E+06	-2.14E+07	2.44E+07
1/10	2.25E+05	-1.19E+06	1.67E+06	-1.19E+06	1.60E+06	-1.42E+07	1.38E+07

Table Q-1276. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-477.	-6.25E+05	6.25E+05	-6.25E+05	6.25E+05	-3.74E+07	3.75E+07
1/20	-1.43E+03	-1.87E+06	1.87E+06	-1.87E+06	1.87E+06	-3.74E+07	3.75E+07
1/15	-1.91E+03	-2.50E+06	2.50E+06	-2.50E+06	2.50E+06	-3.74E+07	3.75E+07
1/10	-2.86E+03	-3.75E+06	3.75E+06	-3.75E+06	3.75E+06	-3.74E+07	3.75E+07

Table Q-1277. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-5.72E+05	5.90E+05	-5.72E+05	5.90E+05	-3.63E+07	3.34E+07
1/20	2.21E+05	-1.17E+06	1.53E+06	-1.17E+06	1.53E+06	-2.78E+07	2.61E+07
1/15	3.22E+05	-9.20E+05	1.73E+06	-9.20E+05	1.73E+06	-1.86E+07	2.12E+07
1/10	1.31E+05	-9.14E+05	1.31E+06	-9.13E+05	1.29E+06	-1.04E+07	1.16E+07

Table Q-1278. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-5.72E+05	5.90E+05	-5.72E+05	5.90E+05	-3.63E+07	3.34E+07
1/20	2.21E+05	-1.17E+06	1.53E+06	-1.17E+06	1.53E+06	-2.78E+07	2.61E+07
1/15	3.22E+05	-9.20E+05	1.73E+06	-9.20E+05	1.73E+06	-1.86E+07	2.12E+07
1/10	1.31E+05	-9.14E+05	1.31E+06	-9.13E+05	1.29E+06	-1.04E+07	1.16E+07



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1279. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1280. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	653.	-5.30E+05	5.32E+05	-5.24E+05	5.29E+05	-3.15E+07	3.17E+07
1/20	1.11E+05	-1.17E+06	1.39E+06	-1.10E+06	1.38E+06	-2.42E+07	2.53E+07
1/15	1.10E+05	-9.72E+05	1.38E+06	-9.59E+05	1.38E+06	-1.60E+07	1.91E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

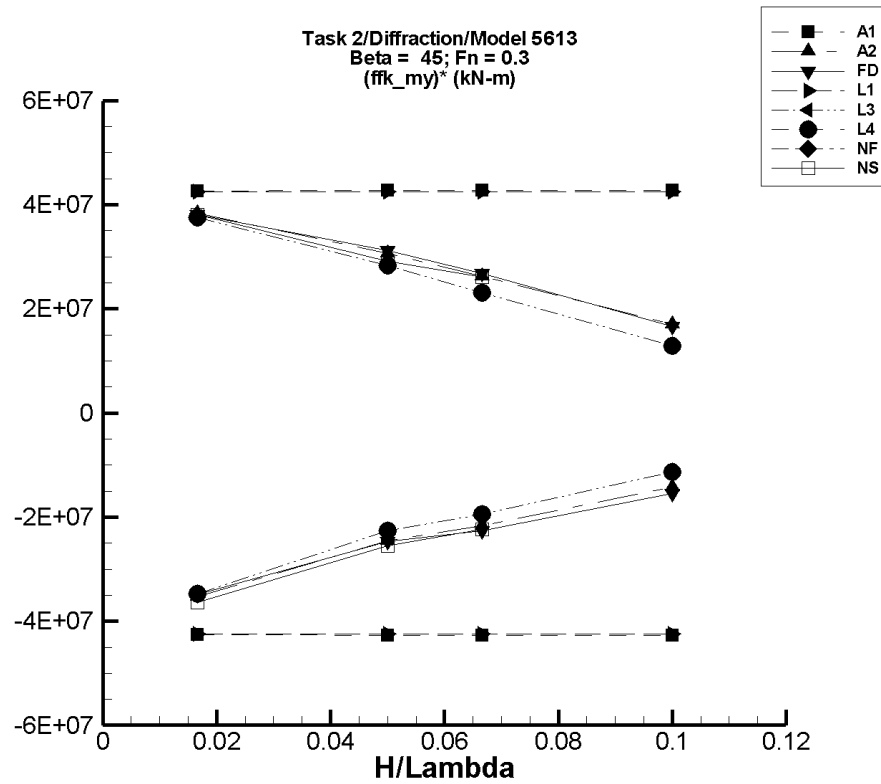


Figure Q-161. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1281. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	167.	-7.12E+05	7.12E+05	-7.10E+05	7.11E+05	-4.26E+07	4.26E+07
1/20	503.	-2.14E+06	2.14E+06	-2.14E+06	2.14E+06	-4.27E+07	4.27E+07
1/15	672.	-2.86E+06	2.86E+06	-2.85E+06	2.85E+06	-4.28E+07	4.28E+07
1/10	1.01E+03	-4.29E+06	4.29E+06	-4.28E+06	4.28E+06	-4.28E+07	4.28E+07

Table Q-1282. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.72E+04	-5.52E+05	6.76E+05	-5.51E+05	6.76E+05	-3.53E+07	3.84E+07
1/20	2.56E+05	-9.76E+05	1.80E+06	-9.73E+05	1.79E+06	-2.46E+07	3.07E+07
1/15	3.93E+05	-1.06E+06	2.15E+06	-1.06E+06	2.14E+06	-2.17E+07	2.63E+07
1/10	1.61E+05	-1.27E+06	1.89E+06	-1.27E+06	1.87E+06	-1.43E+07	1.71E+07

Table Q-1283. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.81E+04	-5.44E+05	6.74E+05	-5.43E+05	6.74E+05	-3.49E+07	3.81E+07
1/20	2.48E+05	-9.89E+05	1.81E+06	-9.87E+05	1.80E+06	-2.47E+07	3.11E+07
1/15	3.77E+05	-1.13E+06	2.18E+06	-1.13E+06	2.17E+06	-2.26E+07	2.68E+07
1/10	2.10E+05	-1.34E+06	1.89E+06	-1.34E+06	1.86E+06	-1.55E+07	1.65E+07

Table Q-1284. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	90.2	-7.09E+05	7.09E+05	-7.08E+05	7.08E+05	-4.25E+07	4.25E+07
1/20	271.	-2.13E+06	2.13E+06	-2.12E+06	2.12E+06	-4.25E+07	4.25E+07
1/15	361.	-2.83E+06	2.83E+06	-2.83E+06	2.83E+06	-4.25E+07	4.25E+07
1/10	541.	-4.25E+06	4.25E+06	-4.25E+06	4.25E+06	-4.25E+07	4.25E+07

Table Q-1285. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.33E+04	-5.47E+05	6.59E+05	-5.46E+05	6.58E+05	-3.48E+07	3.75E+07
1/20	2.20E+05	-9.09E+05	1.63E+06	-9.09E+05	1.63E+06	-2.26E+07	2.83E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.74E+05	1.86E+06	-1.95E+07	2.30E+07
1/10	1.23E+05	-1.02E+06	1.47E+06	-1.01E+06	1.41E+06	-1.13E+07	1.29E+07

Table Q-1286. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.33E+04	-5.47E+05	6.59E+05	-5.46E+05	6.58E+05	-3.48E+07	3.75E+07
1/20	2.20E+05	-9.09E+05	1.63E+06	-9.09E+05	1.63E+06	-2.26E+07	2.83E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.74E+05	1.86E+06	-1.95E+07	2.30E+07
1/10	1.23E+05	-1.02E+06	1.47E+06	-1.01E+06	1.41E+06	-1.13E+07	1.29E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1287. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1288. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.23E+03	-6.05E+05	6.40E+05	-6.00E+05	6.41E+05	-3.64E+07	3.81E+07
1/20	5.84E+04	-1.23E+06	1.51E+06	-1.22E+06	1.52E+06	-2.55E+07	2.92E+07
1/15	1.31E+05	-1.37E+06	1.87E+06	-1.36E+06	1.88E+06	-2.24E+07	2.62E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

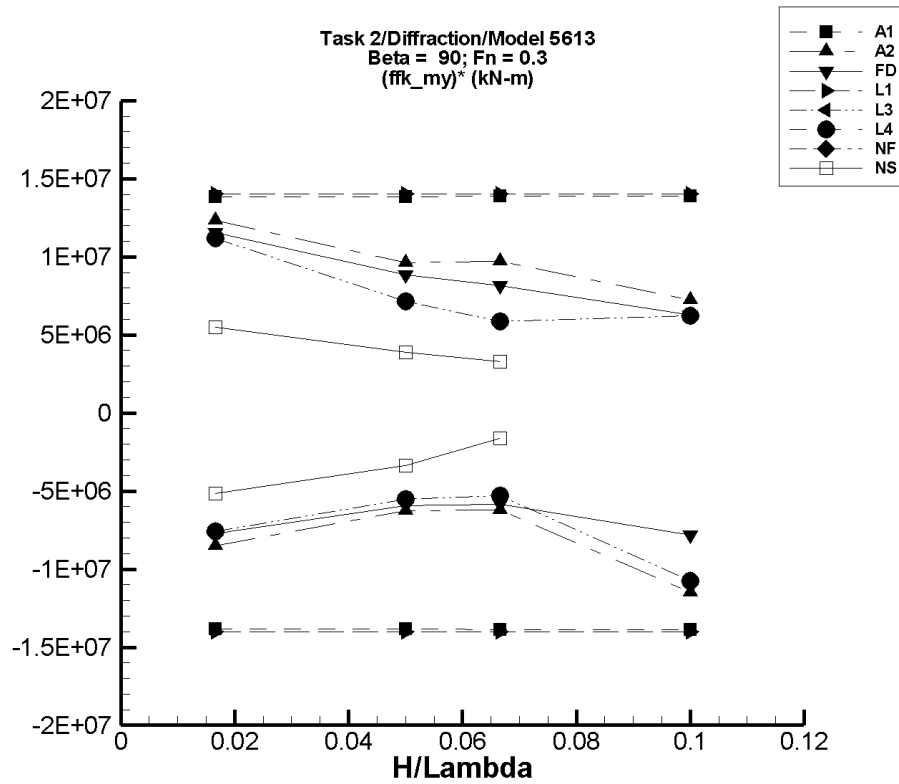


Figure Q-162. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1289. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-147.	-2.33E+05	2.33E+05	-2.30E+05	2.30E+05	-1.38E+07	1.38E+07
1/20	-443.	-7.00E+05	7.00E+05	-6.93E+05	6.92E+05	-1.38E+07	1.39E+07
1/15	-591.	-9.34E+05	9.34E+05	-9.25E+05	9.25E+05	-1.39E+07	1.39E+07
1/10	-886.	-1.40E+06	1.40E+06	-1.39E+06	1.39E+06	-1.39E+07	1.39E+07

Table Q–1290. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.70E+04	-1.05E+05	2.45E+05	-1.05E+05	2.43E+05	-8.51E+06	1.23E+07
1/20	2.56E+05	-7.26E+04	7.60E+05	-5.76E+04	7.36E+05	-6.28E+06	9.60E+06
1/15	3.94E+05	-4.19E+04	1.05E+06	-1.88E+04	1.04E+06	-6.20E+06	9.73E+06
1/10	1.91E+05	-1.08E+06	1.07E+06	-9.59E+05	9.15E+05	-1.15E+07	7.24E+06



Table Q-1291. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.89E+04	-9.03E+04	2.34E+05	-9.01E+04	2.32E+05	-7.74E+06	1.16E+07
1/20	2.51E+05	-6.25E+04	7.01E+05	-4.61E+04	6.94E+05	-5.95E+06	8.86E+06
1/15	3.79E+05	-3.65E+04	9.31E+05	-1.11E+04	9.22E+05	-5.85E+06	8.15E+06
1/10	2.27E+05	-6.39E+05	1.01E+06	-5.54E+05	8.56E+05	-7.82E+06	6.28E+06

Table Q-1292. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-96.8	-2.34E+05	2.34E+05	-2.33E+05	2.33E+05	-1.40E+07	1.40E+07
1/20	-290.	-7.02E+05	7.02E+05	-7.00E+05	7.00E+05	-1.40E+07	1.40E+07
1/15	-387.	-9.37E+05	9.37E+05	-9.33E+05	9.33E+05	-1.40E+07	1.40E+07
1/10	-581.	-1.40E+06	1.40E+06	-1.40E+06	1.40E+06	-1.40E+07	1.40E+07

Table Q-1293. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-9.38E+04	2.20E+05	-9.37E+04	2.19E+05	-7.60E+06	1.12E+07
1/20	2.19E+05	-6.40E+04	5.78E+05	-5.72E+04	5.77E+05	-5.52E+06	7.15E+06
1/15	3.25E+05	-3.64E+04	7.18E+05	-2.68E+04	7.16E+05	-5.27E+06	5.87E+06
1/10	1.02E+05	-9.36E+05	8.25E+05	-9.75E+05	7.27E+05	-1.08E+07	6.24E+06

Table Q-1294. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.29E+04	-9.38E+04	2.20E+05	-9.37E+04	2.19E+05	-7.60E+06	1.12E+07
1/20	2.19E+05	-6.40E+04	5.78E+05	-5.72E+04	5.77E+05	-5.52E+06	7.15E+06
1/15	3.25E+05	-3.64E+04	7.18E+05	-2.68E+04	7.16E+05	-5.27E+06	5.87E+06
1/10	1.02E+05	-9.36E+05	8.25E+05	-9.75E+05	7.27E+05	-1.08E+07	6.24E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1295. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1296. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	254.	-8.66E+04	9.28E+04	-8.59E+04	9.20E+04	-5.17E+06	5.51E+06
1/20	1.01E+05	-7.97E+04	2.99E+05	-6.80E+04	2.95E+05	-3.39E+06	3.88E+06
1/15	1.08E+05	-9.90E+03	3.30E+05	-627.	3.28E+05	-1.63E+06	3.30E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

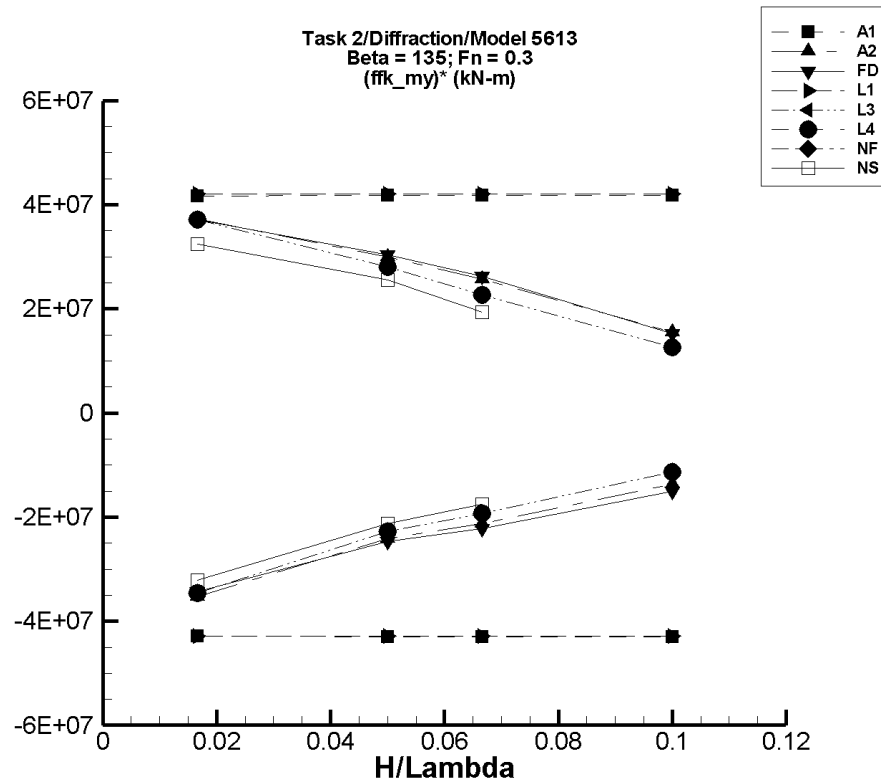


Figure Q-163. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1297. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	281.	-7.11E+05	7.11E+05	-7.14E+05	6.95E+05	-4.29E+07	4.17E+07
1/20	844.	-2.14E+06	2.14E+06	-2.15E+06	2.09E+06	-4.30E+07	4.18E+07
1/15	1.13E+03	-2.86E+06	2.86E+06	-2.87E+06	2.79E+06	-4.30E+07	4.18E+07
1/10	1.69E+03	-4.28E+06	4.29E+06	-4.30E+06	4.18E+06	-4.30E+07	4.18E+07

Table Q-1298. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.71E+04	-5.52E+05	6.76E+05	-5.51E+05	6.59E+05	-3.53E+07	3.73E+07
1/20	2.54E+05	-9.76E+05	1.80E+06	-9.56E+05	1.75E+06	-2.42E+07	3.00E+07
1/15	3.92E+05	-1.06E+06	2.15E+06	-1.02E+06	2.11E+06	-2.12E+07	2.57E+07
1/10	1.46E+05	-1.27E+06	1.88E+06	-1.22E+06	1.70E+06	-1.37E+07	1.55E+07

Table Q-1299. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.84E+04	-5.44E+05	6.74E+05	-5.35E+05	6.58E+05	-3.44E+07	3.72E+07
1/20	2.46E+05	-9.89E+05	1.80E+06	-9.87E+05	1.77E+06	-2.47E+07	3.04E+07
1/15	3.75E+05	-1.13E+06	2.18E+06	-1.10E+06	2.12E+06	-2.22E+07	2.62E+07
1/10	2.17E+05	-1.34E+06	1.88E+06	-1.29E+06	1.74E+06	-1.51E+07	1.52E+07

Table Q-1300. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	37.4	-7.08E+05	7.08E+05	-7.14E+05	7.02E+05	-4.28E+07	4.21E+07
1/20	112.	-2.13E+06	2.13E+06	-2.14E+06	2.11E+06	-4.28E+07	4.21E+07
1/15	149.	-2.83E+06	2.83E+06	-2.86E+06	2.81E+06	-4.28E+07	4.21E+07
1/10	224.	-4.25E+06	4.25E+06	-4.28E+06	4.21E+06	-4.28E+07	4.21E+07

Table Q-1301. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.35E+04	-5.47E+05	6.59E+05	-5.43E+05	6.53E+05	-3.46E+07	3.72E+07
1/20	2.20E+05	-9.09E+05	1.63E+06	-9.20E+05	1.62E+06	-2.28E+07	2.80E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.67E+05	1.84E+06	-1.94E+07	2.27E+07
1/10	1.30E+05	-1.02E+06	1.45E+06	-1.00E+06	1.39E+06	-1.13E+07	1.26E+07

Table Q-1302. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.35E+04	-5.47E+05	6.59E+05	-5.43E+05	6.53E+05	-3.46E+07	3.72E+07
1/20	2.20E+05	-9.09E+05	1.63E+06	-9.20E+05	1.62E+06	-2.28E+07	2.80E+07
1/15	3.25E+05	-9.76E+05	1.86E+06	-9.67E+05	1.84E+06	-1.94E+07	2.27E+07
1/10	1.30E+05	-1.02E+06	1.45E+06	-1.00E+06	1.39E+06	-1.13E+07	1.26E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1303. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1304. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	675.	-5.35E+05	5.46E+05	-5.35E+05	5.41E+05	-3.21E+07	3.24E+07
1/20	1.06E+05	-9.78E+05	1.39E+06	-9.54E+05	1.38E+06	-2.12E+07	2.55E+07
1/15	1.08E+05	-1.07E+06	1.41E+06	-1.06E+06	1.40E+06	-1.75E+07	1.94E+07
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

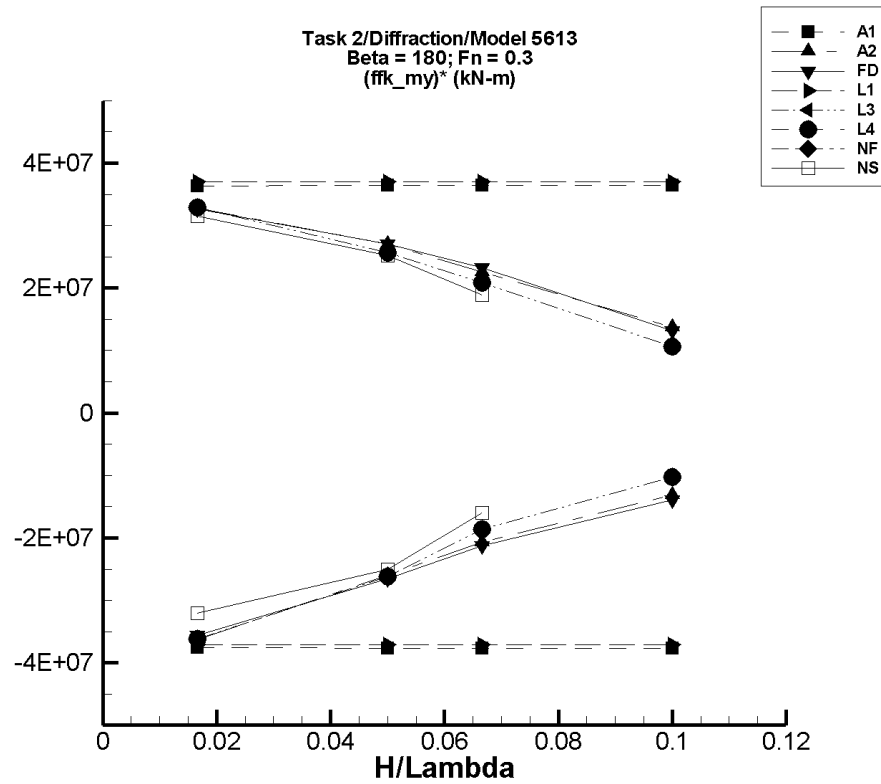


Figure Q-164. Minimum and maximum of filtered  $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1305. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	617.	-6.26E+05	6.26E+05	-6.26E+05	6.06E+05	-3.76E+07	3.63E+07
1/20	1.85E+03	-1.88E+06	1.88E+06	-1.88E+06	1.82E+06	-3.77E+07	3.64E+07
1/15	2.48E+03	-2.51E+06	2.51E+06	-2.51E+06	2.43E+06	-3.77E+07	3.65E+07
1/10	3.71E+03	-3.77E+06	3.77E+06	-3.77E+06	3.65E+06	-3.77E+07	3.65E+07

Table Q-1306. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.70E+04	-5.73E+05	6.00E+05	-5.68E+05	5.83E+05	-3.63E+07	3.27E+07
1/20	2.59E+05	-1.18E+06	1.66E+06	-1.04E+06	1.61E+06	-2.59E+07	2.70E+07
1/15	3.96E+05	-1.00E+06	1.96E+06	-9.86E+05	1.90E+06	-2.07E+07	2.25E+07
1/10	1.52E+05	-1.17E+06	1.68E+06	-1.16E+06	1.52E+06	-1.32E+07	1.37E+07

Table Q–1307. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.81E+04	-5.67E+05	6.01E+05	-5.55E+05	5.82E+05	-3.56E+07	3.26E+07
1/20	2.55E+05	-1.22E+06	1.67E+06	-1.07E+06	1.61E+06	-2.65E+07	2.71E+07
1/15	3.79E+05	-1.05E+06	2.00E+06	-1.04E+06	1.93E+06	-2.12E+07	2.33E+07
1/10	2.18E+05	-1.19E+06	1.68E+06	-1.18E+06	1.53E+06	-1.40E+07	1.31E+07

Table Q–1308. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	967.	-6.25E+05	6.25E+05	-6.18E+05	6.18E+05	-3.71E+07	3.70E+07
1/20	2.90E+03	-1.87E+06	1.87E+06	-1.85E+06	1.85E+06	-3.71E+07	3.70E+07
1/15	3.87E+03	-2.50E+06	2.50E+06	-2.47E+06	2.47E+06	-3.71E+07	3.70E+07
1/10	5.80E+03	-3.75E+06	3.75E+06	-3.71E+06	3.71E+06	-3.71E+07	3.70E+07

Table Q-1309. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.41E+04	-5.72E+05	5.90E+05	-5.69E+05	5.83E+05	-3.62E+07	3.29E+07
1/20	2.27E+05	-1.17E+06	1.53E+06	-1.08E+06	1.51E+06	-2.62E+07	2.57E+07
1/15	3.24E+05	-9.20E+05	1.73E+06	-9.16E+05	1.71E+06	-1.86E+07	2.08E+07
1/10	1.29E+05	-9.13E+05	1.30E+06	-9.02E+05	1.19E+06	-1.03E+07	1.06E+07

Table Q-1310. Minimum and Maximum of Variables  $M_y^{\text{fk}}$  and  $(M_y^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{fk}} \rangle$	Unfiltered $M_y^{\text{fk}}$		Filtered $M_y^{\text{fk}}$		Filtered $(M_y^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.41E+04	-5.72E+05	5.90E+05	-5.69E+05	5.83E+05	-3.62E+07	3.29E+07
1/20	2.27E+05	-1.17E+06	1.53E+06	-1.08E+06	1.51E+06	-2.62E+07	2.57E+07
1/15	3.24E+05	-9.20E+05	1.73E+06	-9.16E+05	1.71E+06	-1.86E+07	2.08E+07
1/10	1.29E+05	-9.13E+05	1.30E+06	-9.02E+05	1.19E+06	-1.03E+07	1.06E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1311. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1312. Minimum and Maximum of Variables  $M_y^{fk}$  and  $(M_y^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{fk} \rangle$	Unfiltered $M_y^{fk}$		Filtered $M_y^{fk}$		Filtered $(M_y^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.44E+03	-5.31E+05	5.32E+05	-5.32E+05	5.27E+05	-3.20E+07	3.15E+07
1/20	1.14E+05	-1.20E+06	1.39E+06	-1.14E+06	1.37E+06	-2.50E+07	2.52E+07
1/15	1.09E+05	-9.72E+05	1.38E+06	-9.57E+05	1.37E+06	-1.60E+07	1.89E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

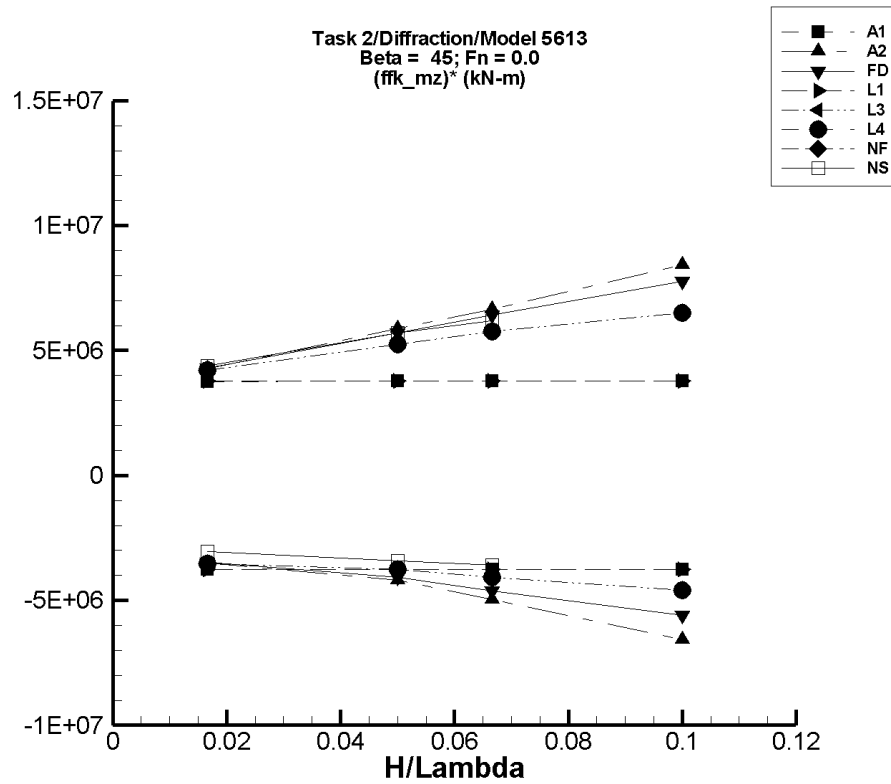


Figure Q-165. Minimum and maximum of filtered  $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1313. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-37.4	-6.33E+04	6.32E+04	-6.26E+04	6.26E+04	-3.76E+06	3.76E+06
1/20	-112.	-1.90E+05	1.90E+05	-1.88E+05	1.88E+05	-3.77E+06	3.77E+06
1/15	-150.	-2.54E+05	2.54E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	-225.	-3.81E+05	3.81E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

Table Q-1314. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	39.6	-5.97E+04	7.15E+04	-5.85E+04	7.10E+04	-3.51E+06	4.26E+06
1/20	-189.	-2.18E+05	5.61E+05	-2.10E+05	2.94E+05	-4.19E+06	5.88E+06
1/15	1.36E+03	-3.40E+05	4.66E+05	-3.29E+05	4.45E+05	-4.95E+06	6.66E+06
1/10	2.12E+04	-6.55E+05	1.53E+06	-6.37E+05	8.65E+05	-6.58E+06	8.43E+06

Table Q–1315. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	81.2	-5.86E+04	7.27E+04	-5.81E+04	7.17E+04	-3.49E+06	4.30E+06
1/20	1.38E+03	-2.07E+05	2.91E+05	-2.03E+05	2.86E+05	-4.08E+06	5.70E+06
1/15	2.80E+03	-3.12E+05	4.38E+05	-3.05E+05	4.31E+05	-4.62E+06	6.43E+06
1/10	4.52E+03	-5.65E+05	7.92E+05	-5.55E+05	7.81E+05	-5.59E+06	7.77E+06

Table Q–1316. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	35.9	-6.31E+04	6.31E+04	-6.29E+04	6.29E+04	-3.77E+06	3.77E+06
1/20	107.	-1.89E+05	1.89E+05	-1.89E+05	1.89E+05	-3.77E+06	3.77E+06
1/15	143.	-2.52E+05	2.52E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	215.	-3.79E+05	3.79E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1317. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	83.9	-5.92E+04	7.07E+04	-5.90E+04	7.03E+04	-3.54E+06	4.21E+06
1/20	651.	-1.88E+05	2.65E+05	-1.87E+05	2.63E+05	-3.76E+06	5.25E+06
1/15	683.	-2.73E+05	3.86E+05	-2.71E+05	3.84E+05	-4.08E+06	5.75E+06
1/10	878.	-4.61E+05	6.55E+05	-4.57E+05	6.52E+05	-4.58E+06	6.51E+06

Table Q-1318. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	83.9	-5.92E+04	7.07E+04	-5.90E+04	7.03E+04	-3.54E+06	4.21E+06
1/20	651.	-1.88E+05	2.65E+05	-1.87E+05	2.63E+05	-3.76E+06	5.25E+06
1/15	683.	-2.73E+05	3.86E+05	-2.71E+05	3.84E+05	-4.08E+06	5.75E+06
1/10	878.	-4.61E+05	6.55E+05	-4.57E+05	6.52E+05	-4.58E+06	6.51E+06

Table Q-1319. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1320. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-23.1	-5.12E+04	7.30E+04	-5.09E+04	7.31E+04	-3.05E+06	4.39E+06
1/20	-203.	-1.76E+05	2.84E+05	-1.72E+05	2.85E+05	-3.43E+06	5.71E+06
1/15	-61.1	-2.44E+05	4.12E+05	-2.39E+05	4.13E+05	-3.59E+06	6.19E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

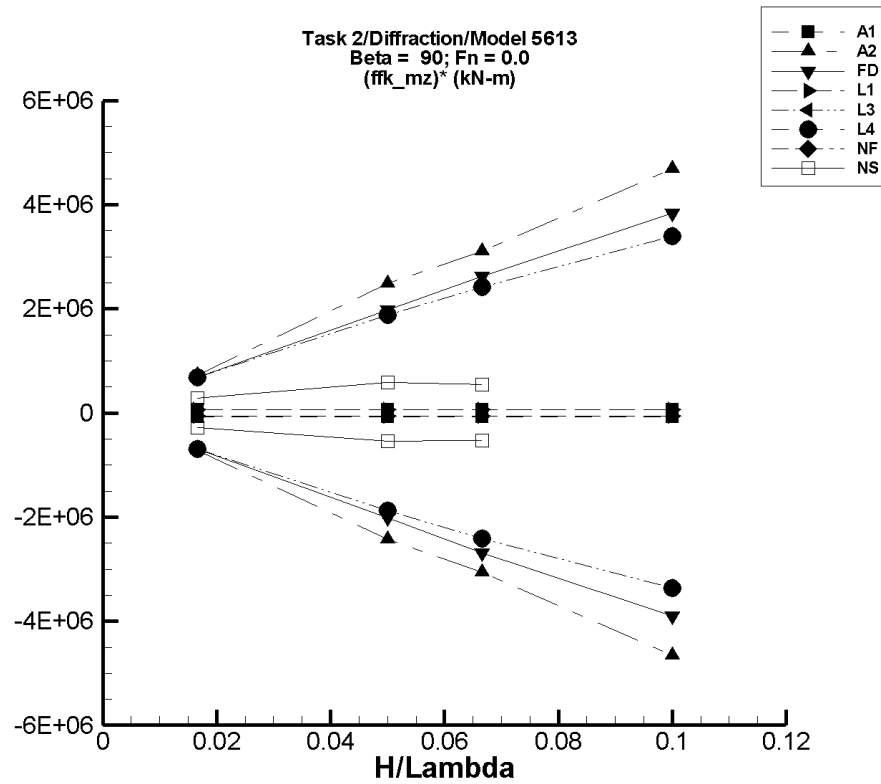


Figure Q-166. Minimum and maximum of filtered  $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1321. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.941	-1.17E+03	1.17E+03	-1.17E+03	1.16E+03	-7.04E+04	6.95E+04
1/20	2.83	-3.52E+03	3.52E+03	-3.52E+03	3.49E+03	-7.05E+04	6.97E+04
1/15	3.78	-4.70E+03	4.70E+03	-4.70E+03	4.65E+03	-7.06E+04	6.98E+04
1/10	5.67	-7.06E+03	7.05E+03	-7.06E+03	6.98E+03	-7.06E+04	6.98E+04

Table Q-1322. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-30.8	-1.31E+04	1.30E+04	-1.21E+04	1.21E+04	-7.26E+05	7.27E+05
1/20	-2.18E+03	-1.99E+05	1.34E+05	-1.23E+05	1.22E+05	-2.42E+06	2.49E+06
1/15	-1.56E+03	-2.18E+05	2.17E+05	-2.06E+05	2.06E+05	-3.07E+06	3.11E+06
1/10	-1.16E+03	-5.05E+05	5.06E+05	-4.67E+05	4.68E+05	-4.66E+06	4.69E+06

Table Q–1323. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	44.3	-1.20E+04	1.20E+04	-1.15E+04	1.15E+04	-6.95E+05	6.89E+05
1/20	949.	-1.04E+05	1.04E+05	-1.00E+05	9.98E+04	-2.02E+06	1.98E+06
1/15	2.01E+03	-1.85E+05	1.85E+05	-1.77E+05	1.77E+05	-2.69E+06	2.62E+06
1/10	3.10E+03	-4.14E+05	4.14E+05	-3.87E+05	3.87E+05	-3.90E+06	3.84E+06

Table Q–1324. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.274	-1.07E+03	1.07E+03	-1.08E+03	1.07E+03	-6.45E+04	6.40E+04
1/20	0.822	-3.21E+03	3.21E+03	-3.23E+03	3.20E+03	-6.45E+04	6.40E+04
1/15	1.10	-4.29E+03	4.29E+03	-4.30E+03	4.27E+03	-6.45E+04	6.40E+04
1/10	1.65	-6.43E+03	6.43E+03	-6.45E+03	6.41E+03	-6.45E+04	6.40E+04

Table Q-1325. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.21	-1.17E+04	1.17E+04	-1.15E+04	1.15E+04	-6.89E+05	6.90E+05
1/20	12.8	-9.54E+04	9.54E+04	-9.39E+04	9.39E+04	-1.88E+06	1.88E+06
1/15	61.5	-1.64E+05	1.64E+05	-1.61E+05	1.61E+05	-2.42E+06	2.41E+06
1/10	-1.42E+03	-3.45E+05	3.45E+05	-3.38E+05	3.38E+05	-3.37E+06	3.40E+06

Table Q-1326. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.21	-1.17E+04	1.17E+04	-1.15E+04	1.15E+04	-6.89E+05	6.90E+05
1/20	12.8	-9.54E+04	9.54E+04	-9.39E+04	9.39E+04	-1.88E+06	1.88E+06
1/15	61.5	-1.64E+05	1.64E+05	-1.61E+05	1.61E+05	-2.42E+06	2.41E+06
1/10	-1.42E+03	-3.45E+05	3.45E+05	-3.38E+05	3.38E+05	-3.37E+06	3.40E+06

Table Q-1327. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1328. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-29.3	-4.80E+03	4.82E+03	-4.65E+03	4.65E+03	-2.77E+05	2.81E+05
1/20	-969.	-2.92E+04	2.96E+04	-2.77E+04	2.82E+04	-5.35E+05	5.83E+05
1/15	-1.29E+03	-3.70E+04	3.65E+04	-3.62E+04	3.56E+04	-5.23E+05	5.53E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

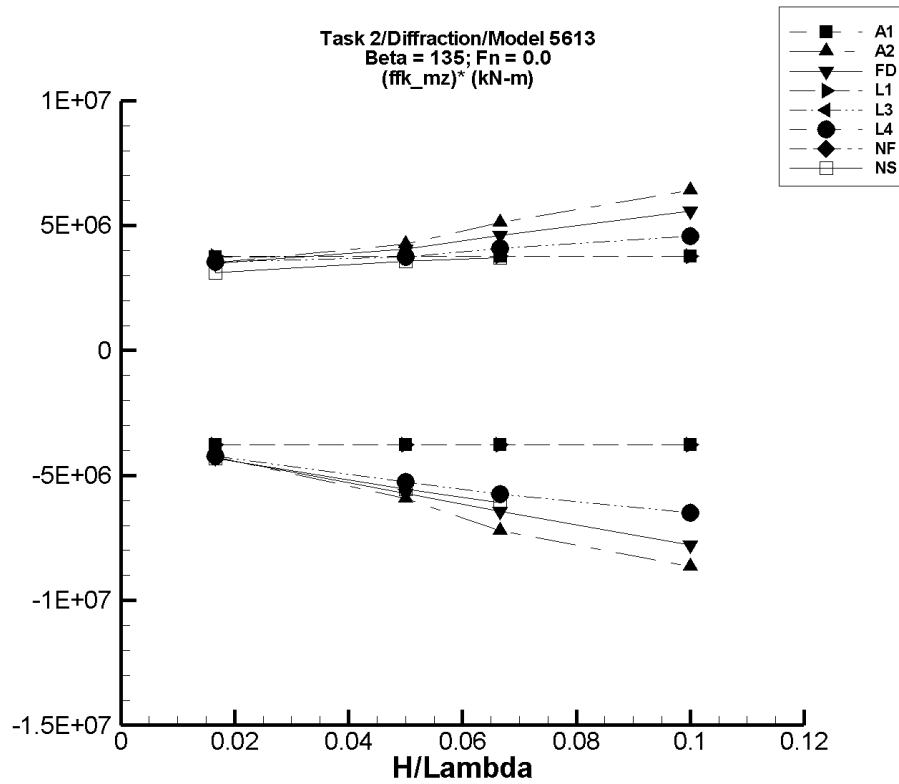


Figure Q-167. Minimum and maximum of filtered  $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1329. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	42.5	-6.33E+04	6.32E+04	-6.26E+04	6.26E+04	-3.76E+06	3.75E+06
1/20	128.	-1.90E+05	1.90E+05	-1.88E+05	1.88E+05	-3.77E+06	3.76E+06
1/15	171.	-2.54E+05	2.54E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	256.	-3.81E+05	3.81E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

Table Q-1330. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.72	-7.16E+04	5.96E+04	-7.10E+04	5.85E+04	-4.26E+06	3.51E+06
1/20	-1.81E+03	-3.04E+05	2.17E+05	-2.98E+05	2.11E+05	-5.93E+06	4.25E+06
1/15	-7.10E+03	-6.95E+05	3.41E+05	-4.88E+05	3.34E+05	-7.22E+06	5.12E+06
1/10	-2.71E+03	-8.78E+05	6.53E+05	-8.68E+05	6.39E+05	-8.65E+06	6.42E+06

Table Q–1331. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-11.3	-7.27E+04	5.86E+04	-7.17E+04	5.81E+04	-4.30E+06	3.48E+06
1/20	-603.	-2.91E+05	2.07E+05	-2.86E+05	2.03E+05	-5.72E+06	4.07E+06
1/15	-1.63E+03	-4.38E+05	3.12E+05	-4.31E+05	3.05E+05	-6.44E+06	4.60E+06
1/10	-2.47E+03	-7.92E+05	5.65E+05	-7.81E+05	5.55E+05	-7.79E+06	5.57E+06

Table Q–1332. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.04	-6.31E+04	6.31E+04	-6.29E+04	6.29E+04	-3.77E+06	3.77E+06
1/20	-15.1	-1.89E+05	1.89E+05	-1.89E+05	1.89E+05	-3.77E+06	3.77E+06
1/15	-20.2	-2.52E+05	2.52E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	-30.2	-3.79E+05	3.79E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1333. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-43.7	-7.07E+04	5.92E+04	-7.03E+04	5.90E+04	-4.22E+06	3.54E+06
1/20	-385.	-2.65E+05	1.88E+05	-2.63E+05	1.87E+05	-5.26E+06	3.76E+06
1/15	-480.	-3.86E+05	2.73E+05	-3.84E+05	2.71E+05	-5.75E+06	4.07E+06
1/10	-853.	-6.55E+05	4.61E+05	-6.52E+05	4.58E+05	-6.51E+06	4.58E+06

Table Q-1334. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-43.7	-7.07E+04	5.92E+04	-7.03E+04	5.90E+04	-4.22E+06	3.54E+06
1/20	-385.	-2.65E+05	1.88E+05	-2.63E+05	1.87E+05	-5.26E+06	3.76E+06
1/15	-480.	-3.86E+05	2.73E+05	-3.84E+05	2.71E+05	-5.75E+06	4.07E+06
1/10	-853.	-6.55E+05	4.61E+05	-6.52E+05	4.58E+05	-6.51E+06	4.58E+06

Table Q-1335. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1336. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-11.2	-7.29E+04	5.21E+04	-7.18E+04	5.17E+04	-4.31E+06	3.11E+06
1/20	-894.	-2.84E+05	1.83E+05	-2.78E+05	1.78E+05	-5.54E+06	3.58E+06
1/15	-732.	-4.12E+05	2.52E+05	-4.07E+05	2.47E+05	-6.09E+06	3.71E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

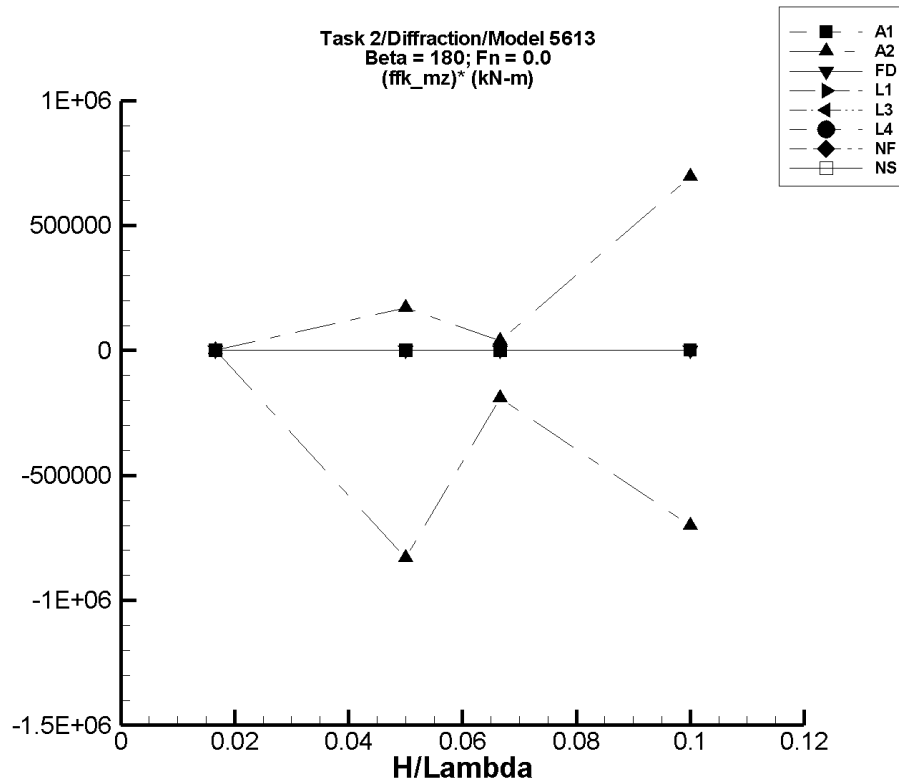


Figure Q-168. Minimum and maximum of filtered  $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1337. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.33E-05	-0.164	0.164	-0.162	0.162	-9.71	9.72
1/20	-1.60E-04	-0.492	0.492	-0.487	0.487	-9.74	9.75
1/15	-2.14E-04	-0.657	0.657	-0.650	0.650	-9.75	9.76
1/10	-3.21E-04	-0.985	0.986	-0.975	0.976	-9.75	9.76

Table Q–1338. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.78E-04	-3.75E-03	1.43E-03	-2.52E-03	2.86E-04	-0.110	5.79E-02
1/20	-4.02E+03	-3.43E+05	1.07E+02	-4.56E+04	4.46E+03	-8.31E+05	1.69E+05
1/15	-305.	-9.78E+04	1.76E+04	-1.30E+04	2.34E+03	-1.91E+05	3.97E+04
1/10	-221.	-5.16E+05	5.08E+05	-7.03E+04	6.93E+04	-7.01E+05	6.95E+05

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Table Q–1339. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.57E-04	-1.49E-02	1.56E-02	-4.47E-03	3.44E-03	-0.241	0.234
1/20	-8.66E-03	-0.110	2.86E-02	-4.12E-02	2.01E-02	-0.650	0.575
1/15	8.26E-04	-4.87E-02	6.80E-02	-2.83E-02	3.35E-02	-0.437	0.490
1/10	-1.52E-03	-8.58E-02	0.134	-2.15E-02	2.56E-02	-0.200	0.271

Table Q–1340. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1341. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

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Table Q-1342. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1343. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1344. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.31E-03	-6.68E-02	4.12E-02	-1.72E-02	1.20E-02	-0.834	0.916
1/20	-7.01E-03	-0.157	0.142	-2.87E-02	1.83E-02	-0.433	0.505
1/15	5.18E-03	-0.222	0.200	-3.78E-02	3.84E-02	-0.645	0.498
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

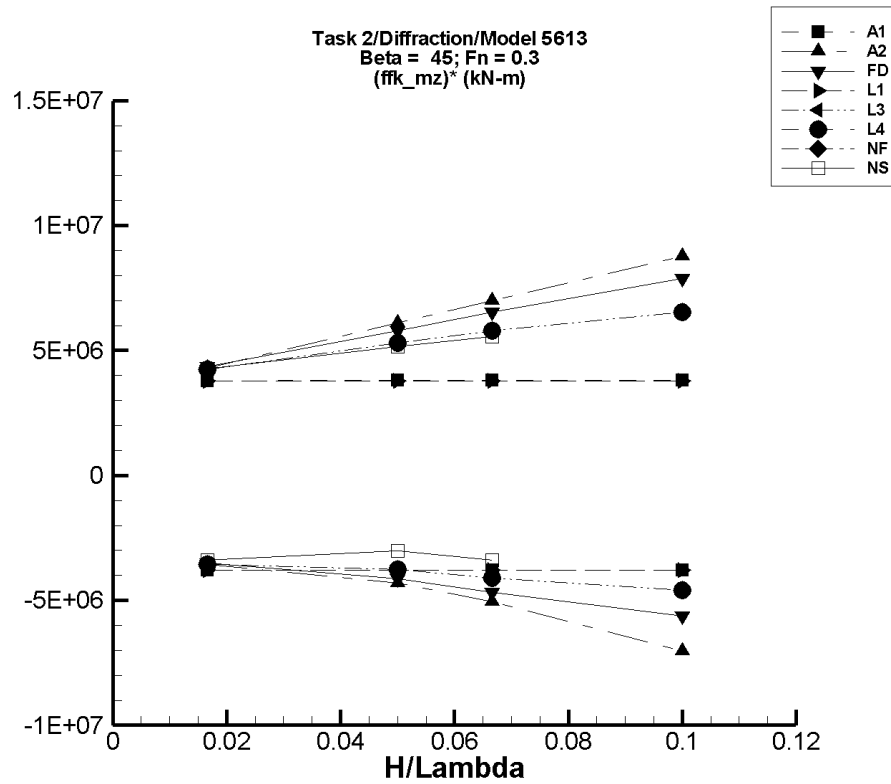


Figure Q-169. Minimum and maximum of filtered  $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1345. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	14.3	-6.33E+04	6.33E+04	-6.31E+04	6.31E+04	-3.79E+06	3.79E+06
1/20	43.1	-1.90E+05	1.90E+05	-1.90E+05	1.90E+05	-3.80E+06	3.80E+06
1/15	57.5	-2.54E+05	2.54E+05	-2.54E+05	2.54E+05	-3.80E+06	3.80E+06
1/10	86.2	-3.81E+05	3.81E+05	-3.80E+05	3.80E+05	-3.80E+06	3.80E+06

Table Q-1346. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	46.1	-5.97E+04	7.16E+04	-5.94E+04	7.18E+04	-3.57E+06	4.30E+06
1/20	-13.8	-2.18E+05	5.61E+05	-2.15E+05	3.06E+05	-4.30E+06	6.11E+06
1/15	652.	-3.92E+05	4.67E+05	-3.37E+05	4.67E+05	-5.06E+06	7.00E+06
1/10	4.16E+03	-1.14E+06	1.53E+06	-7.00E+05	8.82E+05	-7.04E+06	8.77E+06

Table Q–1347. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	45.2	-5.86E+04	7.27E+04	-5.85E+04	7.24E+04	-3.51E+06	4.34E+06
1/20	354.	-2.07E+05	2.91E+05	-2.06E+05	2.90E+05	-4.13E+06	5.79E+06
1/15	740.	-3.12E+05	4.38E+05	-3.11E+05	4.36E+05	-4.67E+06	6.54E+06
1/10	1.18E+03	-5.66E+05	7.92E+05	-5.63E+05	7.89E+05	-5.64E+06	7.88E+06

Table Q–1348. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.34	-6.31E+04	6.31E+04	-6.31E+04	6.32E+04	-3.78E+06	3.79E+06
1/20	28.0	-1.89E+05	1.89E+05	-1.89E+05	1.90E+05	-3.78E+06	3.79E+06
1/15	37.4	-2.52E+05	2.52E+05	-2.52E+05	2.53E+05	-3.78E+06	3.79E+06
1/10	56.0	-3.79E+05	3.79E+05	-3.78E+05	3.79E+05	-3.78E+06	3.79E+06

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Table Q–1349. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-12.0	-5.92E+04	7.07E+04	-5.91E+04	7.06E+04	-3.55E+06	4.24E+06
1/20	-75.1	-1.88E+05	2.65E+05	-1.88E+05	2.64E+05	-3.76E+06	5.29E+06
1/15	93.8	-2.73E+05	3.86E+05	-2.73E+05	3.86E+05	-4.09E+06	5.79E+06
1/10	-521.	-4.61E+05	6.55E+05	-4.60E+05	6.54E+05	-4.59E+06	6.54E+06

Table Q–1350. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-12.0	-5.92E+04	7.07E+04	-5.91E+04	7.06E+04	-3.55E+06	4.24E+06
1/20	-75.1	-1.88E+05	2.65E+05	-1.88E+05	2.64E+05	-3.76E+06	5.29E+06
1/15	93.8	-2.73E+05	3.86E+05	-2.73E+05	3.86E+05	-4.09E+06	5.79E+06
1/10	-521.	-4.61E+05	6.55E+05	-4.60E+05	6.54E+05	-4.59E+06	6.54E+06

Table Q–1351. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1352. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-38.3	-5.72E+04	7.07E+04	-5.67E+04	7.11E+04	-3.40E+06	4.27E+06
1/20	-379.	-1.54E+05	2.57E+05	-1.51E+05	2.58E+05	-3.01E+06	5.17E+06
1/15	-665.	-2.29E+05	3.68E+05	-2.26E+05	3.70E+05	-3.38E+06	5.57E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

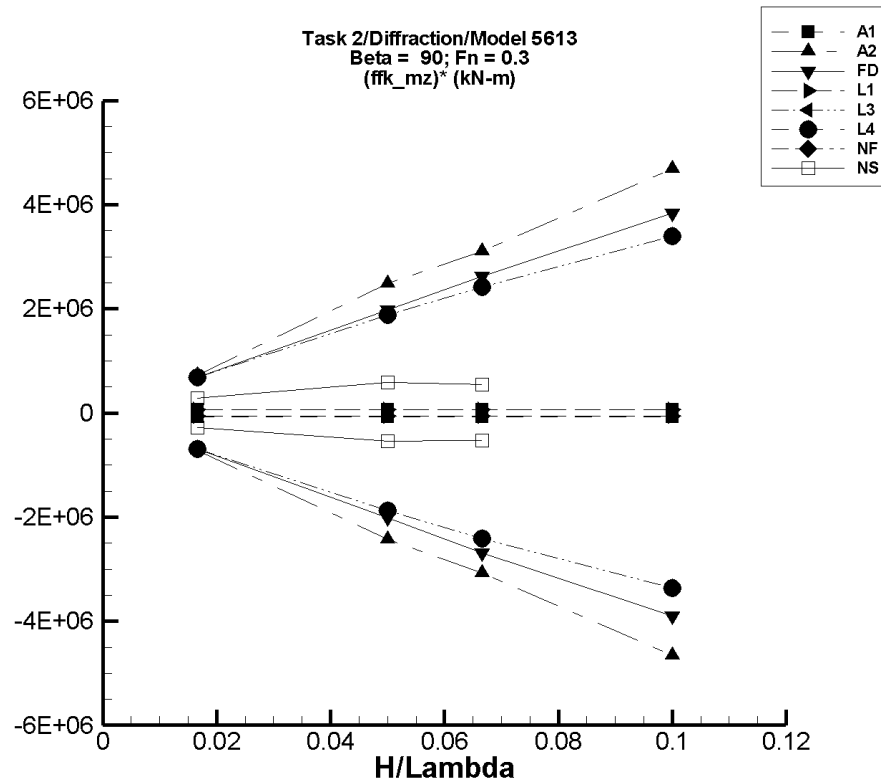


Figure Q-170. Minimum and maximum of filtered  $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1353. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.951	-1.18E+03	1.18E+03	-1.18E+03	1.17E+03	-7.11E+04	7.03E+04
1/20	2.86	-3.56E+03	3.56E+03	-3.56E+03	3.52E+03	-7.13E+04	7.04E+04
1/15	3.82	-4.76E+03	4.75E+03	-4.76E+03	4.71E+03	-7.14E+04	7.05E+04
1/10	5.73	-7.13E+03	7.13E+03	-7.13E+03	7.06E+03	-7.14E+04	7.05E+04

Table Q-1354. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-30.8	-1.31E+04	1.30E+04	-1.21E+04	1.21E+04	-7.26E+05	7.27E+05
1/20	-2.18E+03	-1.99E+05	1.34E+05	-1.23E+05	1.22E+05	-2.42E+06	2.49E+06
1/15	-1.23E+03	-2.18E+05	2.17E+05	-2.06E+05	2.06E+05	-3.07E+06	3.10E+06
1/10	-1.16E+03	-5.05E+05	5.06E+05	-4.67E+05	4.68E+05	-4.66E+06	4.69E+06

Table Q–1355. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	44.3	-1.20E+04	1.20E+04	-1.15E+04	1.15E+04	-6.95E+05	6.89E+05
1/20	949.	-1.04E+05	1.04E+05	-1.00E+05	9.98E+04	-2.02E+06	1.98E+06
1/15	2.01E+03	-1.85E+05	1.85E+05	-1.77E+05	1.77E+05	-2.69E+06	2.62E+06
1/10	3.10E+03	-4.14E+05	4.14E+05	-3.87E+05	3.87E+05	-3.90E+06	3.84E+06

Table Q–1356. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	0.263	-1.07E+03	1.07E+03	-1.08E+03	1.07E+03	-6.45E+04	6.40E+04
1/20	0.801	-3.21E+03	3.21E+03	-3.23E+03	3.20E+03	-6.45E+04	6.40E+04
1/15	1.05	-4.29E+03	4.29E+03	-4.30E+03	4.27E+03	-6.45E+04	6.40E+04
1/10	1.60	-6.43E+03	6.43E+03	-6.45E+03	6.41E+03	-6.45E+04	6.40E+04



Table Q-1357. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.22	-1.17E+04	1.17E+04	-1.15E+04	1.15E+04	-6.89E+05	6.90E+05
1/20	12.8	-9.54E+04	9.54E+04	-9.39E+04	9.39E+04	-1.88E+06	1.88E+06
1/15	61.5	-1.64E+05	1.64E+05	-1.61E+05	1.61E+05	-2.42E+06	2.41E+06
1/10	-1.42E+03	-3.45E+05	3.45E+05	-3.38E+05	3.38E+05	-3.37E+06	3.40E+06

Table Q-1358. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.22	-1.17E+04	1.17E+04	-1.15E+04	1.15E+04	-6.89E+05	6.90E+05
1/20	12.8	-9.54E+04	9.54E+04	-9.39E+04	9.39E+04	-1.88E+06	1.88E+06
1/15	61.5	-1.64E+05	1.64E+05	-1.61E+05	1.61E+05	-2.42E+06	2.41E+06
1/10	-1.42E+03	-3.45E+05	3.45E+05	-3.38E+05	3.38E+05	-3.37E+06	3.40E+06

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Table Q–1359. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1360. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-29.3	-4.80E+03	4.82E+03	-4.65E+03	4.65E+03	-2.77E+05	2.81E+05
1/20	-969.	-2.92E+04	2.96E+04	-2.77E+04	2.82E+04	-5.35E+05	5.83E+05
1/15	-1.29E+03	-3.70E+04	3.65E+04	-3.62E+04	3.56E+04	-5.23E+05	5.53E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

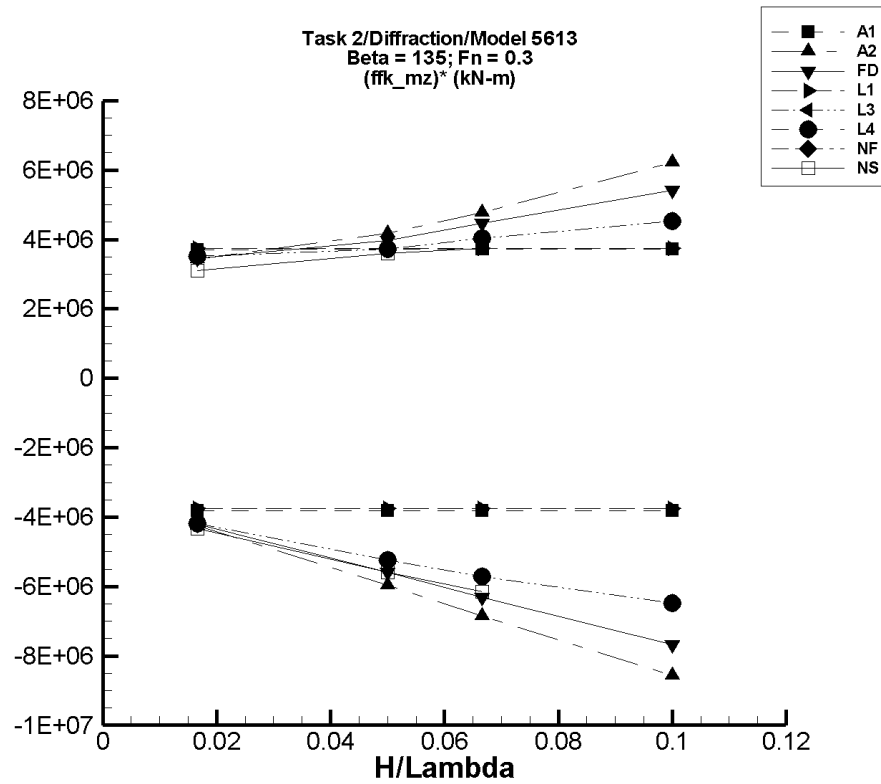


Figure Q-171. Minimum and maximum of filtered  $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1361. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	27.5	-6.32E+04	6.33E+04	-6.35E+04	6.18E+04	-3.81E+06	3.70E+06
1/20	82.6	-1.90E+05	1.90E+05	-1.91E+05	1.86E+05	-3.82E+06	3.71E+06
1/15	110.	-2.54E+05	2.54E+05	-2.55E+05	2.48E+05	-3.82E+06	3.72E+06
1/10	165.	-3.81E+05	3.81E+05	-3.82E+05	3.72E+05	-3.82E+06	3.72E+06

Table Q-1362. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	34.9	-7.16E+04	5.96E+04	-7.09E+04	5.73E+04	-4.26E+06	3.43E+06
1/20	-325.	-3.04E+05	2.17E+05	-2.99E+05	2.09E+05	-5.97E+06	4.18E+06
1/15	-1.21E+03	-4.68E+05	3.39E+05	-4.58E+05	3.17E+05	-6.85E+06	4.78E+06
1/10	-2.47E+03	-8.79E+05	6.55E+05	-8.58E+05	6.20E+05	-8.56E+06	6.23E+06

Table Q–1363. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-45.0	-7.26E+04	5.86E+04	-7.03E+04	5.73E+04	-4.22E+06	3.44E+06
1/20	-929.	-2.91E+05	2.07E+05	-2.81E+05	1.97E+05	-5.60E+06	3.96E+06
1/15	-1.62E+03	-4.38E+05	3.12E+05	-4.22E+05	2.96E+05	-6.31E+06	4.46E+06
1/10	-2.43E+03	-7.91E+05	5.66E+05	-7.70E+05	5.39E+05	-7.67E+06	5.41E+06

Table Q–1364. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.57	-6.31E+04	6.31E+04	-6.25E+04	6.26E+04	-3.75E+06	3.75E+06
1/20	22.7	-1.89E+05	1.89E+05	-1.88E+05	1.88E+05	-3.75E+06	3.75E+06
1/15	30.3	-2.52E+05	2.52E+05	-2.50E+05	2.50E+05	-3.75E+06	3.75E+06
1/10	45.4	-3.79E+05	3.79E+05	-3.75E+05	3.75E+05	-3.75E+06	3.75E+06

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Table Q–1365. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	35.7	-7.07E+04	5.92E+04	-6.99E+04	5.87E+04	-4.20E+06	3.52E+06
1/20	-12.2	-2.65E+05	1.88E+05	-2.62E+05	1.86E+05	-5.23E+06	3.72E+06
1/15	4.62	-3.86E+05	2.73E+05	-3.81E+05	2.69E+05	-5.72E+06	4.03E+06
1/10	26.7	-6.54E+05	4.60E+05	-6.48E+05	4.53E+05	-6.48E+06	4.53E+06

Table Q–1366. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	35.7	-7.07E+04	5.92E+04	-6.99E+04	5.87E+04	-4.20E+06	3.52E+06
1/20	-12.2	-2.65E+05	1.88E+05	-2.62E+05	1.86E+05	-5.23E+06	3.72E+06
1/15	4.62	-3.86E+05	2.73E+05	-3.81E+05	2.69E+05	-5.72E+06	4.03E+06
1/10	26.7	-6.54E+05	4.60E+05	-6.48E+05	4.53E+05	-6.48E+06	4.53E+06

Table Q–1367. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1368. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-37.3	-7.32E+04	5.19E+04	-7.21E+04	5.16E+04	-4.33E+06	3.10E+06
1/20	-947.	-2.86E+05	1.84E+05	-2.81E+05	1.79E+05	-5.60E+06	3.61E+06
1/15	-789.	-4.17E+05	2.54E+05	-4.11E+05	2.49E+05	-6.16E+06	3.75E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

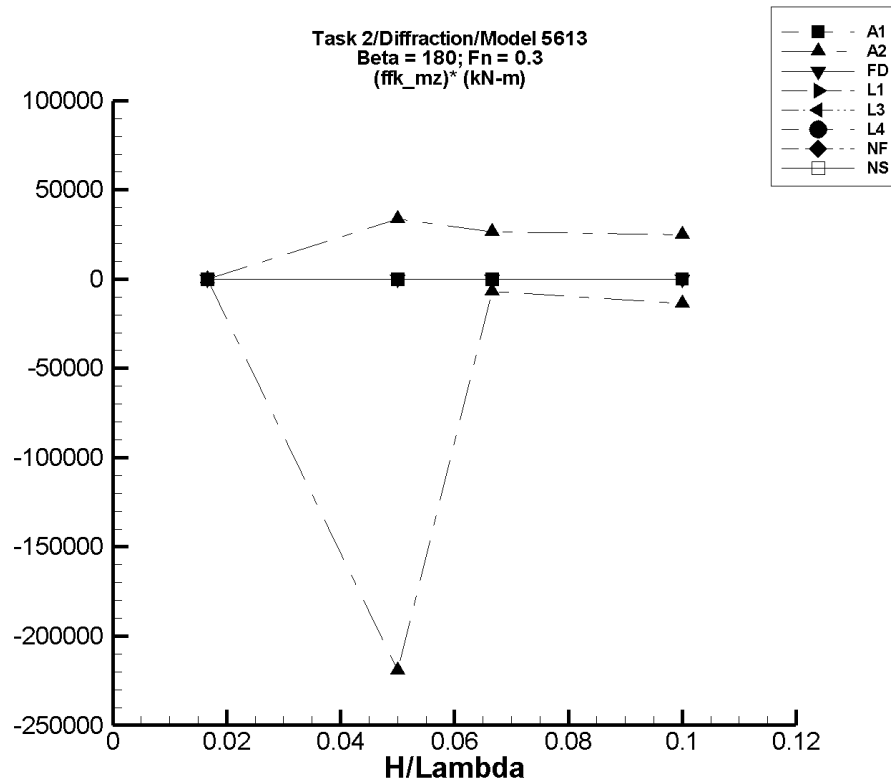


Figure Q-172. Minimum and maximum of filtered  $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1369. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.59E-05	-0.149	0.149	-0.144	0.144	-8.65	8.66
1/20	-1.68E-04	-0.448	0.447	-0.434	0.434	-8.67	8.68
1/15	-2.24E-04	-0.598	0.597	-0.579	0.579	-8.69	8.69
1/10	-3.37E-04	-0.897	0.896	-0.869	0.869	-8.69	8.69

Table Q-1370. Minimum and Maximum of Variables  $M_z^{\text{fk}}$  and  $(M_z^{\text{fk}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{fk}} \rangle$	Unfiltered $M_z^{\text{fk}}$		Filtered $M_z^{\text{fk}}$		Filtered $(M_z^{\text{fk}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.53E-04	-4.79E-03	1.06E-03	-2.01E-03	1.40E-04	-7.52E-02	5.36E-02
1/20	-682.	-8.74E+04	1.30E+02	-1.17E+04	1.00E+03	-2.19E+05	3.36E+04
1/15	277.	-52.8	1.53E+04	-174.	2.04E+03	-6.77E+03	2.64E+04
1/10	324.	-6.30E+03	2.07E+04	-1.03E+03	2.82E+03	-1.36E+04	2.50E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1371. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.03E-03	-0.172	0.165	-6.06E-02	6.42E-02	-3.28	4.22
1/20	-2.48E-03	-0.411	0.470	-0.126	0.253	-2.47	5.11
1/15	6.39E-04	-0.716	0.817	-0.257	0.312	-3.86	4.66
1/10	0.139	-2.15	2.94	-0.906	1.49	-10.5	13.5

Table Q–1372. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1373. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1374. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1375. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1376. Minimum and Maximum of Variables  $M_z^{fk}$  and  $(M_z^{fk})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>NSHIPMO</b>							
$(H/\lambda)$	$\langle M_z^{fk} \rangle$	Unfiltered $M_z^{fk}$		Filtered $M_z^{fk}$		Filtered $(M_z^{fk})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.49E-03	-6.11E-02	6.45E-02	-1.48E-02	8.32E-03	-0.681	0.709
1/20	-7.86E-03	-0.164	0.143	-3.74E-02	1.29E-02	-0.590	0.414
1/15	5.66E-03	-0.446	0.246	-4.01E-02	7.03E-02	-0.687	0.969
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

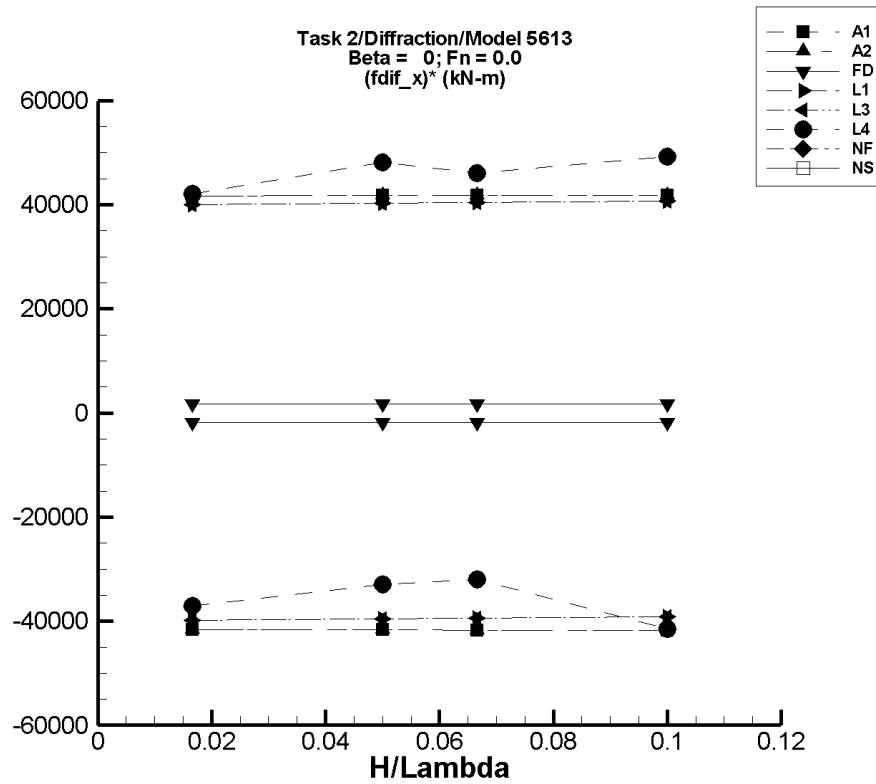


Figure Q-173. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1377. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.547	-702.	701.	-694.	694.	-4.16E+04	4.17E+04
1/20	-1.65	-2.11E+03	2.11E+03	-2.09E+03	2.09E+03	-4.17E+04	4.18E+04
1/15	-2.20	-2.82E+03	2.81E+03	-2.78E+03	2.79E+03	-4.17E+04	4.18E+04
1/10	-3.30	-4.23E+03	4.22E+03	-4.18E+03	4.18E+03	-4.17E+04	4.18E+04

Table Q-1378. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.547	-702.	701.	-694.	694.	-4.16E+04	4.17E+04
1/20	-1.65	-2.11E+03	2.11E+03	-2.09E+03	2.09E+03	-4.17E+04	4.18E+04
1/15	-2.20	-2.82E+03	2.81E+03	-2.78E+03	2.79E+03	-4.17E+04	4.18E+04
1/10	-3.30	-4.23E+03	4.22E+03	-4.18E+03	4.18E+03	-4.17E+04	4.18E+04

Table Q-1379. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.03E-02	-29.8	29.8	-29.5	29.9	-1.77E+03	1.79E+03
1/20	-3.09E-02	-89.5	89.5	-88.6	89.6	-1.77E+03	1.79E+03
1/15	-4.13E-02	-119.	119.	-118.	119.	-1.77E+03	1.79E+03
1/10	-6.19E-02	-179.	179.	-177.	179.	-1.77E+03	1.79E+03

Table Q–1380. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.15	-664.	672.	-661.	669.	-3.98E+04	4.00E+04
1/20	16.1	-1.97E+03	2.04E+03	-1.96E+03	2.03E+03	-3.95E+04	4.03E+04
1/15	27.9	-2.61E+03	2.73E+03	-2.60E+03	2.72E+03	-3.94E+04	4.04E+04
1/10	61.3	-3.86E+03	4.15E+03	-3.85E+03	4.13E+03	-3.91E+04	4.07E+04

Table Q–1381. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.14	-663.	671.	-661.	669.	-3.98E+04	4.00E+04
1/20	16.1	-1.97E+03	2.04E+03	-1.96E+03	2.03E+03	-3.95E+04	4.03E+04
1/15	27.9	-2.61E+03	2.73E+03	-2.60E+03	2.72E+03	-3.94E+04	4.04E+04
1/10	61.2	-3.86E+03	4.15E+03	-3.85E+03	4.13E+03	-3.91E+04	4.07E+04

Table Q–1382. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	52.7	-568.	771.	-565.	753.	-3.71E+04	4.20E+04
1/20	456.	-1.21E+03	3.11E+03	-1.19E+03	2.86E+03	-3.29E+04	4.81E+04
1/15	750.	-1.41E+03	4.14E+03	-1.38E+03	3.82E+03	-3.19E+04	4.60E+04
1/10	1.23E+03	-3.34E+03	6.54E+03	-2.92E+03	6.16E+03	-4.15E+04	4.93E+04

Table Q–1383. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1384. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

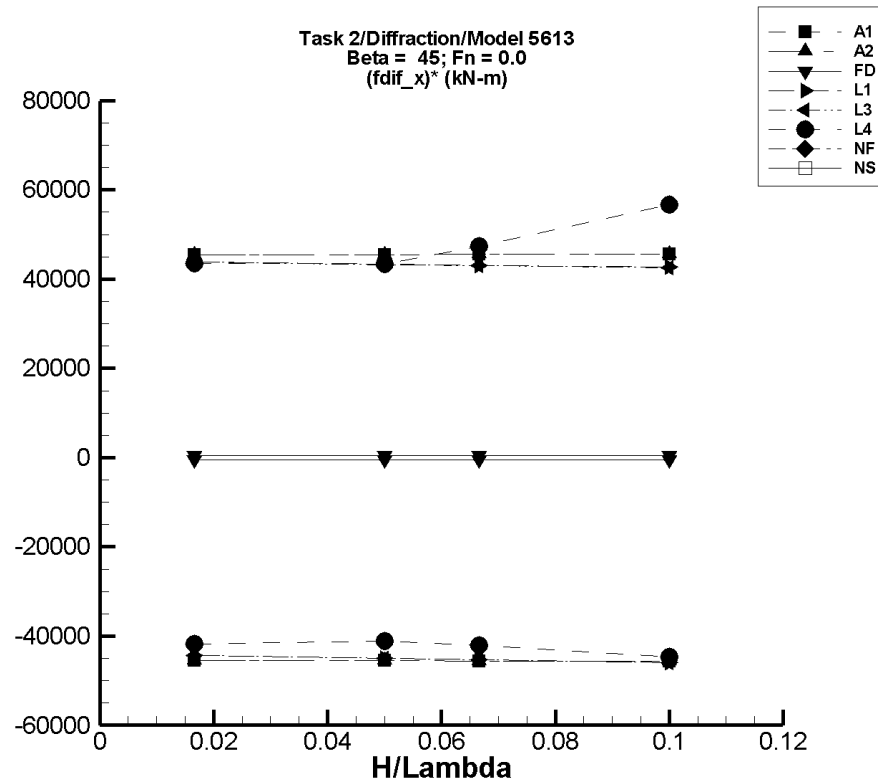


Figure Q-174. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1385. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.246	-765.	764.	-757.	756.	-4.54E+04	4.54E+04
1/20	-0.739	-2.30E+03	2.30E+03	-2.28E+03	2.27E+03	-4.55E+04	4.55E+04
1/15	-0.987	-3.07E+03	3.07E+03	-3.04E+03	3.04E+03	-4.56E+04	4.56E+04
1/10	-1.48	-4.61E+03	4.60E+03	-4.56E+03	4.55E+03	-4.56E+04	4.56E+04

Table Q-1386. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.246	-765.	764.	-757.	756.	-4.54E+04	4.54E+04
1/20	-0.739	-2.30E+03	2.30E+03	-2.28E+03	2.27E+03	-4.55E+04	4.55E+04
1/15	-0.987	-3.07E+03	3.07E+03	-3.04E+03	3.04E+03	-4.56E+04	4.56E+04
1/10	-1.48	-4.61E+03	4.60E+03	-4.56E+03	4.55E+03	-4.56E+04	4.56E+04

Table Q-1387. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	6.54E-04	-7.24	7.24	-7.18	7.17	-431.	430.
1/20	1.96E-03	-21.7	21.7	-21.5	21.5	-431.	430.
1/15	2.61E-03	-29.0	29.0	-28.7	28.7	-431.	430.
1/10	3.92E-03	-43.5	43.5	-43.1	43.0	-431.	430.

Table Q–1388. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	8.90	-733.	742.	-730.	739.	-4.43E+04	4.38E+04
1/20	79.3	-2.18E+03	2.25E+03	-2.17E+03	2.25E+03	-4.49E+04	4.33E+04
1/15	141.	-2.89E+03	3.02E+03	-2.88E+03	3.01E+03	-4.52E+04	4.31E+04
1/10	316.	-4.29E+03	4.60E+03	-4.27E+03	4.59E+03	-4.59E+04	4.27E+04

Table Q–1389. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	8.90	-733.	741.	-730.	739.	-4.44E+04	4.38E+04
1/20	79.3	-2.18E+03	2.25E+03	-2.17E+03	2.24E+03	-4.50E+04	4.33E+04
1/15	141.	-2.89E+03	3.02E+03	-2.88E+03	3.01E+03	-4.53E+04	4.30E+04
1/10	316.	-4.29E+03	4.59E+03	-4.28E+03	4.58E+03	-4.59E+04	4.26E+04

Table Q–1390. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	58.7	-643.	795.	-636.	783.	-4.17E+04	4.35E+04
1/20	495.	-1.61E+03	2.69E+03	-1.56E+03	2.66E+03	-4.11E+04	4.33E+04
1/15	765.	-2.11E+03	3.97E+03	-2.04E+03	3.92E+03	-4.20E+04	4.73E+04
1/10	1.17E+03	-3.46E+03	6.94E+03	-3.29E+03	6.83E+03	-4.46E+04	5.67E+04

Table Q–1391. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1392. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

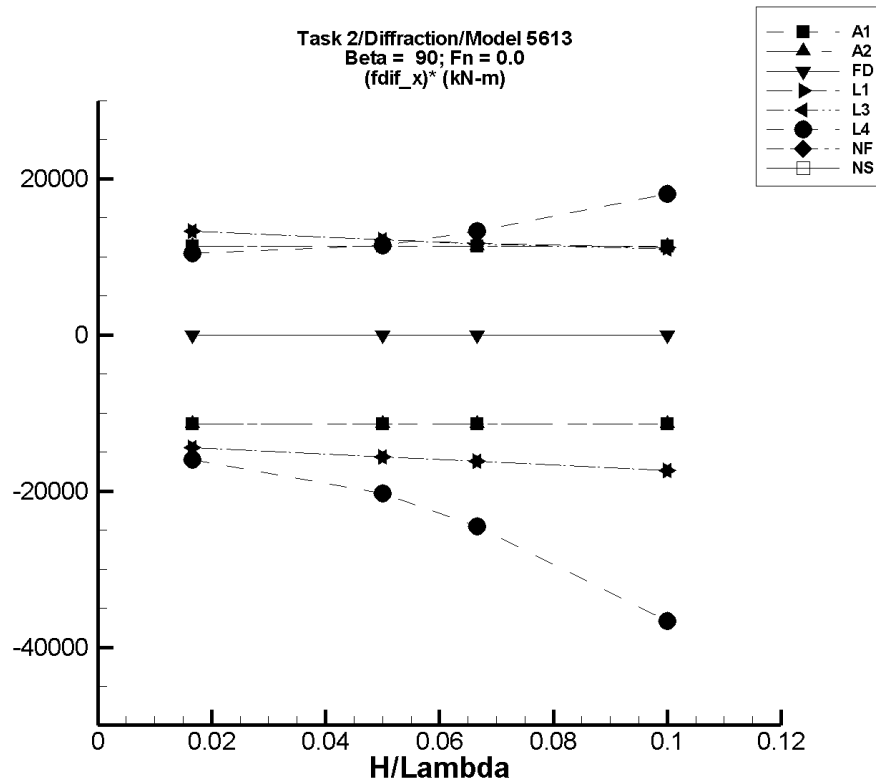


Figure Q-175. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1393. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.992	-191.	192.	-189.	190.	-1.14E+04	1.13E+04
1/20	2.98	-574.	578.	-568.	572.	-1.14E+04	1.14E+04
1/15	3.98	-767.	772.	-759.	764.	-1.14E+04	1.14E+04
1/10	5.98	-1.15E+03	1.16E+03	-1.14E+03	1.15E+03	-1.14E+04	1.14E+04

Table Q-1394. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.992	-191.	192.	-189.	190.	-1.14E+04	1.13E+04
1/20	2.98	-574.	578.	-568.	572.	-1.14E+04	1.14E+04
1/15	3.98	-767.	772.	-759.	764.	-1.14E+04	1.14E+04
1/10	5.98	-1.15E+03	1.16E+03	-1.14E+03	1.15E+03	-1.14E+04	1.14E+04

Table Q-1395. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.15E-09	-3.54E-06	3.54E-06	-3.50E-06	3.55E-06	-2.10E-04	2.13E-04
1/20	-3.44E-09	-1.06E-05	1.06E-05	-1.05E-05	1.06E-05	-2.10E-04	2.13E-04
1/15	-4.59E-09	-1.42E-05	1.42E-05	-1.40E-05	1.42E-05	-2.10E-04	2.13E-04
1/10	-6.88E-09	-2.12E-05	2.12E-05	-2.10E-05	2.13E-05	-2.10E-04	2.13E-04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1396. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	11.6	-230.	233.	-229.	232.	-1.44E+04	1.33E+04
1/20	103.	-680.	714.	-676.	712.	-1.56E+04	1.22E+04
1/15	184.	-900.	966.	-895.	964.	-1.62E+04	1.17E+04
1/10	413.	-1.33E+03	1.53E+03	-1.32E+03	1.53E+03	-1.74E+04	1.11E+04

Table Q-1397. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	11.6	-230.	233.	-229.	232.	-1.44E+04	1.32E+04
1/20	103.	-680.	712.	-677.	710.	-1.56E+04	1.21E+04
1/15	184.	-901.	961.	-896.	960.	-1.62E+04	1.16E+04
1/10	413.	-1.33E+03	1.52E+03	-1.32E+03	1.51E+03	-1.74E+04	1.10E+04

Table Q-1398. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
	<b>Mean</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>
	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>	<b>(kN)</b>
1/60	-6.61	-275.	197.	-273.	168.	-1.60E+04	1.05E+04
1/20	-57.5	-1.19E+03	562.	-1.07E+03	513.	-2.03E+04	1.14E+04
1/15	-187.	-1.96E+03	863.	-1.82E+03	702.	-2.46E+04	1.33E+04
1/10	-564.	-4.61E+03	1.47E+03	-4.23E+03	1.24E+03	-3.67E+04	1.80E+04



# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1399. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1400. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

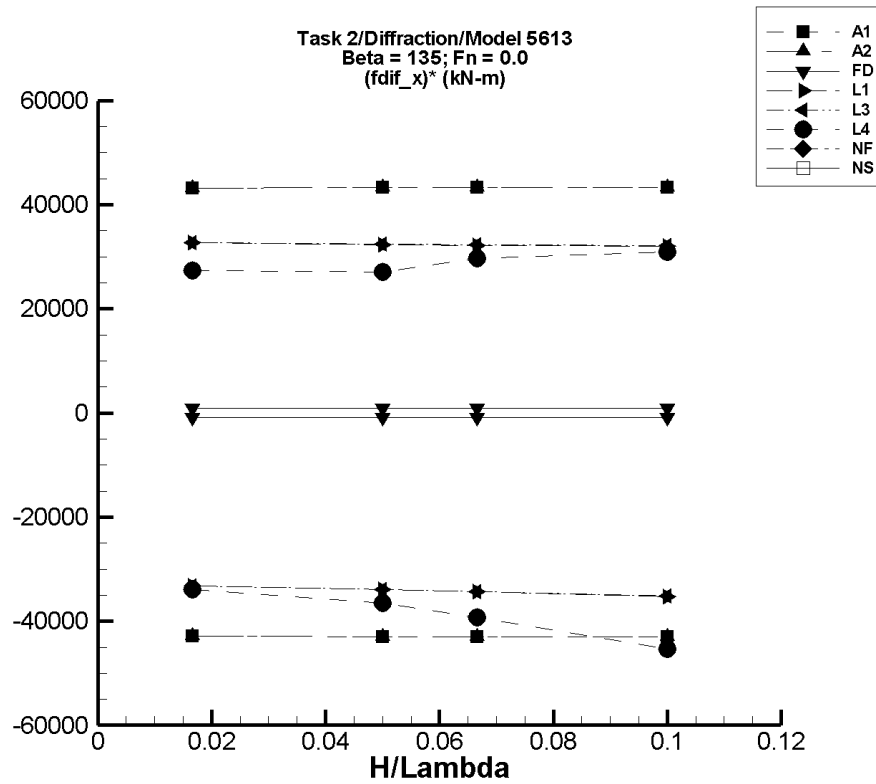


Figure Q-176. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1401. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.799	-721.	727.	-714.	720.	-4.29E+04	4.32E+04
1/20	2.40	-2.17E+03	2.19E+03	-2.15E+03	2.17E+03	-4.30E+04	4.33E+04
1/15	3.21	-2.90E+03	2.92E+03	-2.87E+03	2.89E+03	-4.30E+04	4.33E+04
1/10	4.81	-4.34E+03	4.38E+03	-4.30E+03	4.34E+03	-4.30E+04	4.33E+04

Table Q-1402. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.799	-721.	727.	-714.	720.	-4.29E+04	4.32E+04
1/20	2.40	-2.17E+03	2.19E+03	-2.15E+03	2.17E+03	-4.30E+04	4.33E+04
1/15	3.21	-2.90E+03	2.92E+03	-2.87E+03	2.89E+03	-4.30E+04	4.33E+04
1/10	4.81	-4.34E+03	4.38E+03	-4.30E+03	4.34E+03	-4.30E+04	4.33E+04

Table Q-1403. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-6.02E-03	-14.5	14.5	-14.4	14.4	-861.	862.
1/20	-1.81E-02	-43.5	43.5	-43.1	43.1	-861.	862.
1/15	-2.41E-02	-58.0	58.0	-57.4	57.4	-861.	862.
1/10	-3.61E-02	-87.0	87.0	-86.1	86.1	-861.	862.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1404. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	6.53	-550.	554.	-548.	552.	-3.33E+04	3.28E+04
1/20	61.9	-1.64E+03	1.68E+03	-1.64E+03	1.68E+03	-3.40E+04	3.23E+04
1/15	111.	-2.19E+03	2.27E+03	-2.18E+03	2.26E+03	-3.44E+04	3.22E+04
1/10	251.	-3.29E+03	3.47E+03	-3.27E+03	3.46E+03	-3.52E+04	3.21E+04

Table Q-1405. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	6.54	-549.	554.	-547.	553.	-3.32E+04	3.28E+04
1/20	61.9	-1.64E+03	1.69E+03	-1.63E+03	1.68E+03	-3.39E+04	3.24E+04
1/15	111.	-2.18E+03	2.27E+03	-2.17E+03	2.26E+03	-3.43E+04	3.23E+04
1/10	251.	-3.28E+03	3.48E+03	-3.26E+03	3.47E+03	-3.51E+04	3.22E+04

Table Q-1406. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-31.4	-615.	431.	-597.	425.	-3.40E+04	2.74E+04
1/20	-319.	-2.18E+03	1.11E+03	-2.15E+03	1.04E+03	-3.66E+04	2.71E+04
1/15	-543.	-3.21E+03	1.53E+03	-3.16E+03	1.44E+03	-3.93E+04	2.98E+04
1/10	-853.	-5.71E+03	2.62E+03	-5.39E+03	2.25E+03	-4.54E+04	3.10E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1407. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1408. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

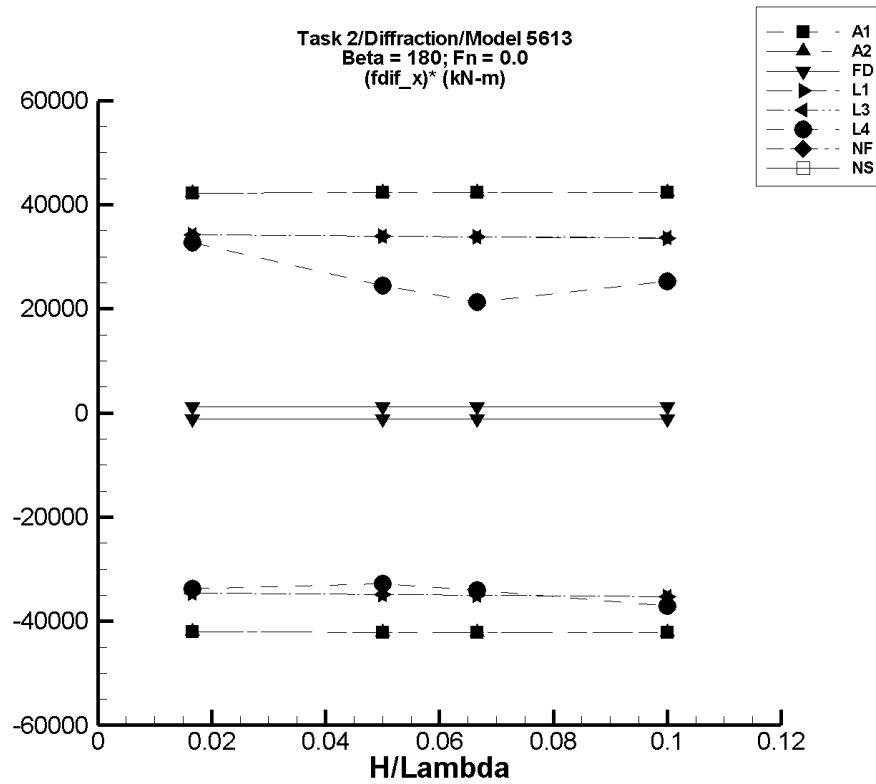


Figure Q-177. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1409. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.346	-708.	712.	-700.	704.	-4.20E+04	4.22E+04
1/20	1.04	-2.13E+03	2.14E+03	-2.11E+03	2.12E+03	-4.21E+04	4.23E+04
1/15	1.39	-2.84E+03	2.86E+03	-2.81E+03	2.83E+03	-4.22E+04	4.24E+04
1/10	2.09	-4.26E+03	4.29E+03	-4.22E+03	4.24E+03	-4.22E+04	4.24E+04

Table Q-1410. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.346	-708.	712.	-700.	704.	-4.20E+04	4.22E+04
1/20	1.04	-2.13E+03	2.14E+03	-2.11E+03	2.12E+03	-4.21E+04	4.23E+04
1/15	1.39	-2.84E+03	2.86E+03	-2.81E+03	2.83E+03	-4.22E+04	4.24E+04
1/10	2.09	-4.26E+03	4.29E+03	-4.22E+03	4.24E+03	-4.22E+04	4.24E+04

Table Q-1411. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.27E-03	-20.0	20.0	-19.8	19.8	-1.19E+03	1.19E+03
1/20	1.58E-02	-59.9	59.9	-59.3	59.3	-1.19E+03	1.19E+03
1/15	2.11E-02	-79.9	79.9	-79.1	79.1	-1.19E+03	1.19E+03
1/10	3.16E-02	-120.	120.	-119.	119.	-1.19E+03	1.19E+03

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Table Q-1412. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	12.5	-566.	586.	-564.	584.	-3.46E+04	3.43E+04
1/20	114.	-1.64E+03	1.82E+03	-1.63E+03	1.81E+03	-3.49E+04	3.40E+04
1/15	204.	-2.14E+03	2.47E+03	-2.13E+03	2.46E+03	-3.50E+04	3.39E+04
1/10	459.	-3.09E+03	3.83E+03	-3.07E+03	3.82E+03	-3.53E+04	3.36E+04

Table Q-1413. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	12.6	-565.	586.	-563.	584.	-3.46E+04	3.43E+04
1/20	114.	-1.63E+03	1.82E+03	-1.63E+03	1.82E+03	-3.48E+04	3.40E+04
1/15	204.	-2.14E+03	2.47E+03	-2.13E+03	2.46E+03	-3.50E+04	3.39E+04
1/10	459.	-3.08E+03	3.83E+03	-3.07E+03	3.82E+03	-3.53E+04	3.36E+04

Table Q-1414. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-12.8	-580.	538.	-575.	532.	-3.38E+04	3.27E+04
1/20	-194.	-1.85E+03	1.12E+03	-1.84E+03	1.03E+03	-3.29E+04	2.45E+04
1/15	-328.	-2.62E+03	1.20E+03	-2.60E+03	1.09E+03	-3.40E+04	2.13E+04
1/10	-505.	-4.80E+03	2.59E+03	-4.21E+03	2.02E+03	-3.71E+04	2.53E+04



# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1415. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1416. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

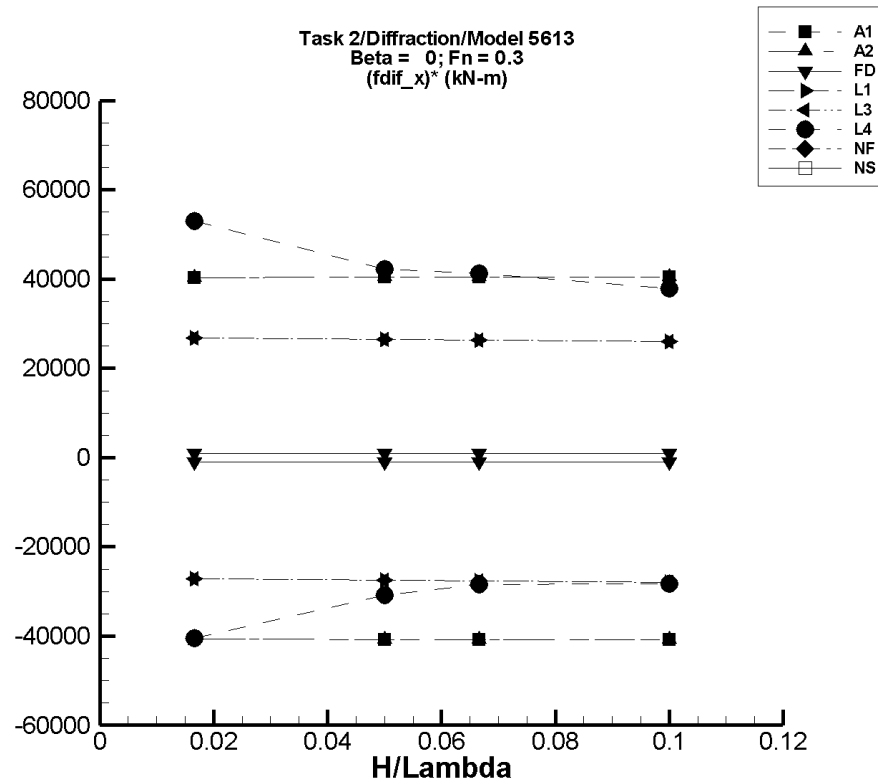


Figure Q-178. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-1417. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.239	-677.	674.	-677.	673.	-4.06E+04	4.04E+04
1/20	0.719	-2.04E+03	2.03E+03	-2.04E+03	2.02E+03	-4.07E+04	4.05E+04
1/15	0.960	-2.72E+03	2.70E+03	-2.72E+03	2.70E+03	-4.08E+04	4.05E+04
1/10	1.44	-4.08E+03	4.06E+03	-4.08E+03	4.05E+03	-4.08E+04	4.05E+04

Table Q-1418. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.239	-677.	674.	-677.	673.	-4.06E+04	4.04E+04
1/20	0.719	-2.04E+03	2.03E+03	-2.04E+03	2.02E+03	-4.07E+04	4.05E+04
1/15	0.960	-2.72E+03	2.70E+03	-2.72E+03	2.70E+03	-4.08E+04	4.05E+04
1/10	1.44	-4.08E+03	4.06E+03	-4.08E+03	4.05E+03	-4.08E+04	4.05E+04

Table Q-1419. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.48E-04	-15.5	15.5	-15.5	15.5	-931.	931.
1/20	-7.41E-04	-46.6	46.6	-46.5	46.5	-931.	931.
1/15	-9.91E-04	-62.1	62.1	-62.1	62.1	-931.	931.
1/10	-1.48E-03	-93.2	93.1	-93.1	93.1	-931.	931.

Table Q–1420. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-26.0	-479.	421.	-479.	421.	-2.72E+04	2.68E+04
1/20	97.0	-1.28E+03	1.42E+03	-1.28E+03	1.42E+03	-2.75E+04	2.65E+04
1/15	204.	-1.64E+03	1.96E+03	-1.64E+03	1.96E+03	-2.77E+04	2.63E+04
1/10	511.	-2.29E+03	3.11E+03	-2.29E+03	3.11E+03	-2.80E+04	2.60E+04

Table Q–1421. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-26.0	-479.	421.	-479.	421.	-2.72E+04	2.68E+04
1/20	97.0	-1.28E+03	1.42E+03	-1.28E+03	1.42E+03	-2.75E+04	2.65E+04
1/15	204.	-1.64E+03	1.96E+03	-1.64E+03	1.96E+03	-2.77E+04	2.63E+04
1/10	511.	-2.29E+03	3.11E+03	-2.29E+03	3.11E+03	-2.80E+04	2.60E+04

Table Q–1422. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	186.	-512.	1.14E+03	-489.	1.07E+03	-4.05E+04	5.31E+04
1/20	610.	-991.	2.90E+03	-930.	2.72E+03	-3.08E+04	4.23E+04
1/15	746.	-1.22E+03	3.72E+03	-1.15E+03	3.50E+03	-2.84E+04	4.13E+04
1/10	1.02E+03	-2.64E+03	5.17E+03	-1.81E+03	4.80E+03	-2.83E+04	3.78E+04

Table Q–1423. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1424. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

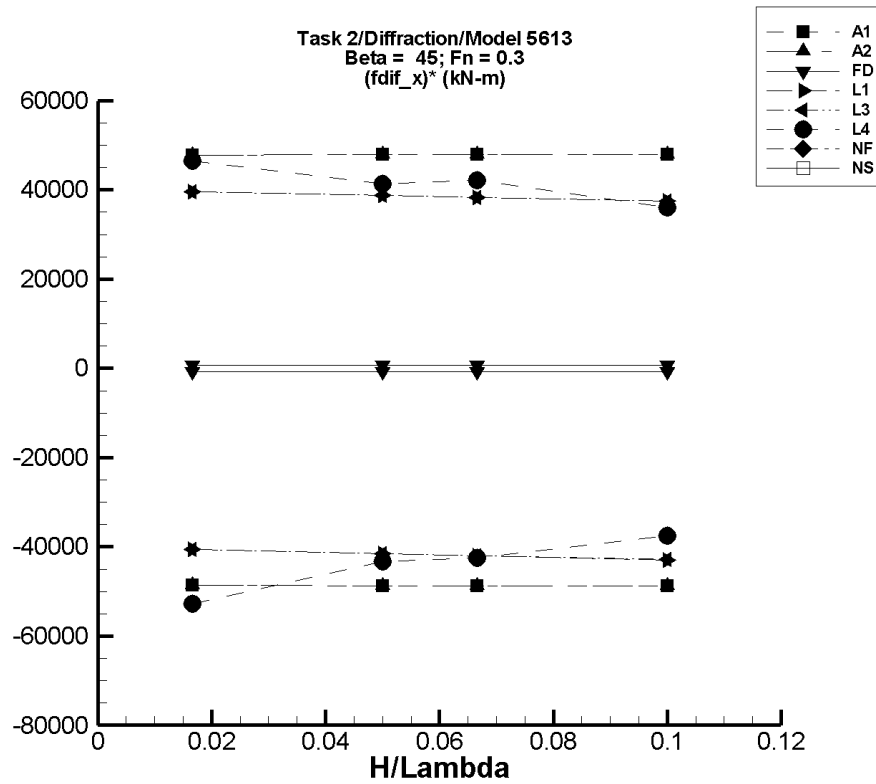


Figure Q-179. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

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Table Q-1425. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.20	-822.	823.	-808.	799.	-4.86E+04	4.78E+04
1/20	9.64	-2.47E+03	2.48E+03	-2.43E+03	2.40E+03	-4.88E+04	4.79E+04
1/15	12.9	-3.30E+03	3.30E+03	-3.24E+03	3.21E+03	-4.88E+04	4.80E+04
1/10	19.3	-4.95E+03	4.96E+03	-4.86E+03	4.82E+03	-4.88E+04	4.80E+04

Table Q-1426. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.20	-822.	823.	-808.	799.	-4.86E+04	4.78E+04
1/20	9.64	-2.47E+03	2.48E+03	-2.43E+03	2.40E+03	-4.88E+04	4.79E+04
1/15	12.9	-3.30E+03	3.30E+03	-3.24E+03	3.21E+03	-4.88E+04	4.80E+04
1/10	19.3	-4.95E+03	4.96E+03	-4.86E+03	4.82E+03	-4.88E+04	4.80E+04

Table Q-1427. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.72E-03	-12.8	12.8	-12.8	12.8	-766.	766.
1/20	1.12E-02	-38.4	38.4	-38.3	38.3	-766.	766.
1/15	1.49E-02	-51.2	51.2	-51.1	51.1	-766.	766.
1/10	2.24E-02	-76.7	76.7	-76.6	76.6	-766.	766.



Table Q-1428. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-29.4	-706.	632.	-705.	631.	-4.05E+04	3.96E+04
1/20	69.6	-2.01E+03	2.01E+03	-2.00E+03	2.01E+03	-4.15E+04	3.87E+04
1/15	156.	-2.64E+03	2.71E+03	-2.64E+03	2.71E+03	-4.20E+04	3.83E+04
1/10	404.	-3.89E+03	4.15E+03	-3.89E+03	4.15E+03	-4.29E+04	3.75E+04

Table Q-1429. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-29.4	-706.	632.	-705.	631.	-4.05E+04	3.96E+04
1/20	69.6	-2.01E+03	2.01E+03	-2.00E+03	2.01E+03	-4.15E+04	3.88E+04
1/15	156.	-2.64E+03	2.71E+03	-2.64E+03	2.71E+03	-4.19E+04	3.83E+04
1/10	404.	-3.89E+03	4.16E+03	-3.89E+03	4.15E+03	-4.29E+04	3.75E+04

Table Q–1430. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	199.	-707.	975.	-680.	974.	-5.27E+04	4.65E+04
1/20	645.	-1.56E+03	2.74E+03	-1.52E+03	2.71E+03	-4.33E+04	4.14E+04
1/15	799.	-2.11E+03	3.65E+03	-2.03E+03	3.61E+03	-4.24E+04	4.22E+04
1/10	1.11E+03	-4.89E+03	5.20E+03	-2.64E+03	4.71E+03	-3.75E+04	3.60E+04

Table Q–1431. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1432. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

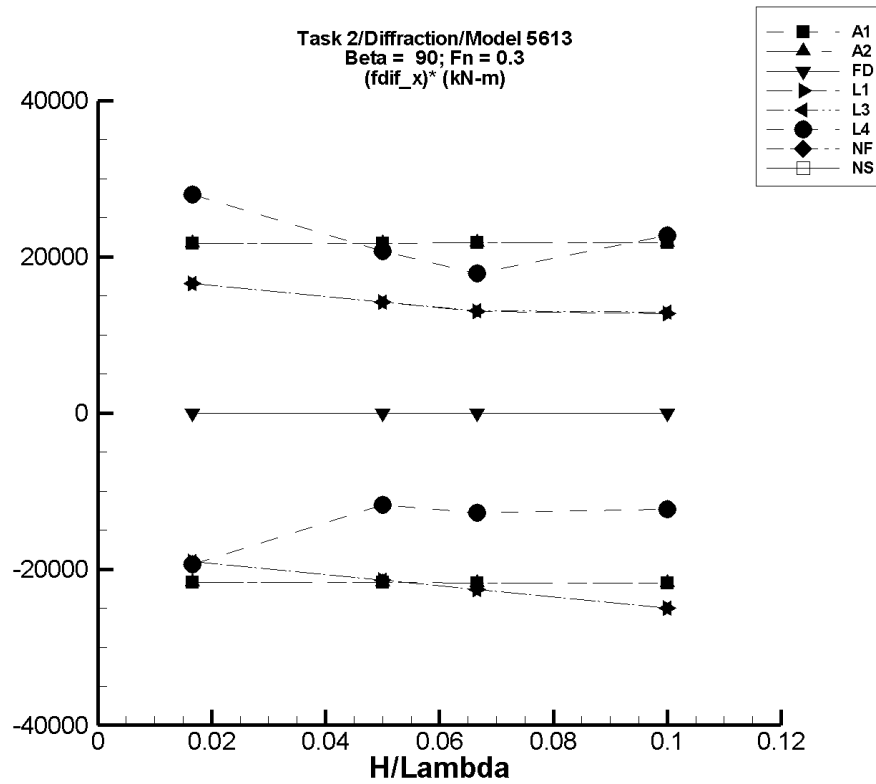


Figure Q-180. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1433. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	9.63E-02	-365.	366.	-361.	362.	-2.17E+04	2.17E+04
1/20	0.290	-1.10E+03	1.10E+03	-1.09E+03	1.09E+03	-2.17E+04	2.18E+04
1/15	0.387	-1.47E+03	1.47E+03	-1.45E+03	1.45E+03	-2.17E+04	2.18E+04
1/10	0.580	-2.20E+03	2.21E+03	-2.17E+03	2.18E+03	-2.17E+04	2.18E+04

Table Q-1434. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	9.63E-02	-365.	366.	-361.	362.	-2.17E+04	2.17E+04
1/20	0.290	-1.10E+03	1.10E+03	-1.09E+03	1.09E+03	-2.17E+04	2.18E+04
1/15	0.387	-1.47E+03	1.47E+03	-1.45E+03	1.45E+03	-2.17E+04	2.18E+04
1/10	0.580	-2.20E+03	2.21E+03	-2.17E+03	2.18E+03	-2.17E+04	2.18E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1435. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-1.35E-09	-3.63E-06	3.63E-06	-3.60E-06	3.60E-06	-2.16E-04	2.16E-04
1/20	-4.05E-09	-1.09E-05	1.09E-05	-1.08E-05	1.08E-05	-2.16E-04	2.16E-04
1/15	-5.40E-09	-1.45E-05	1.45E-05	-1.44E-05	1.44E-05	-2.16E-04	2.16E-04
1/10	-8.10E-09	-2.18E-05	2.18E-05	-2.16E-05	2.16E-05	-2.16E-04	2.16E-04

Table Q-1436. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-36.6	-354.	240.	-353.	240.	-1.90E+04	1.66E+04
1/20	3.31	-1.07E+03	712.	-1.07E+03	712.	-2.14E+04	1.42E+04
1/15	38.1	-1.48E+03	909.	-1.47E+03	908.	-2.26E+04	1.30E+04
1/10	137.	-2.38E+03	1.42E+03	-2.36E+03	1.41E+03	-2.50E+04	1.27E+04

Table Q-1437. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_x^{\text{dif}}$ Max. (kN)	Filtered $(F_x^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-36.6	-355.	241.	-353.	240.	-1.90E+04	1.66E+04
1/20	3.33	-1.07E+03	713.	-1.07E+03	712.	-2.14E+04	1.42E+04
1/15	38.1	-1.48E+03	915.	-1.47E+03	914.	-2.26E+04	1.31E+04
1/10	137.	-2.38E+03	1.43E+03	-2.36E+03	1.43E+03	-2.50E+04	1.29E+04

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1438. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	193.	-146.	666.	-131.	659.	-1.94E+04	2.80E+04
1/20	583.	-103.	1.68E+03	-7.09	1.62E+03	-1.18E+04	2.07E+04
1/15	706.	-165.	2.01E+03	-145.	1.89E+03	-1.28E+04	1.78E+04
1/10	1.00E+03	-4.36E+03	6.79E+03	-231.	3.27E+03	-1.23E+04	2.27E+04

Table Q-1439. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1440. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

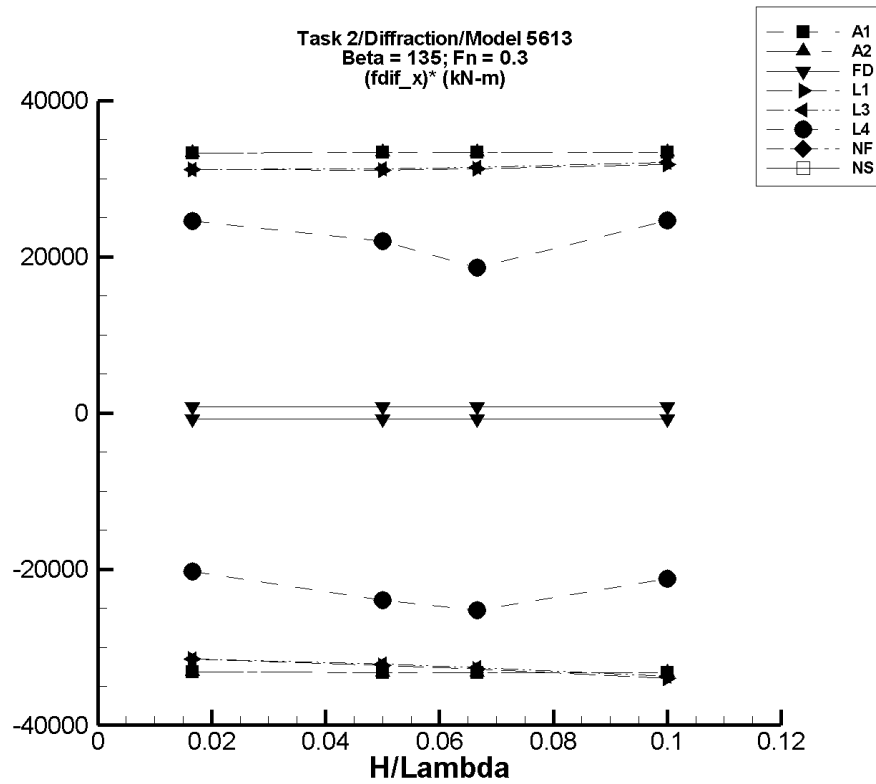


Figure Q-181. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1441. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.664	-571.	567.	-553.	553.	-3.32E+04	3.32E+04
1/20	-2.00	-1.72E+03	1.71E+03	-1.66E+03	1.66E+03	-3.32E+04	3.33E+04
1/15	-2.67	-2.29E+03	2.28E+03	-2.22E+03	2.22E+03	-3.33E+04	3.34E+04
1/10	-4.00	-3.44E+03	3.42E+03	-3.33E+03	3.33E+03	-3.33E+04	3.34E+04

Table Q-1442. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.664	-571.	567.	-553.	553.	-3.32E+04	3.32E+04
1/20	-2.00	-1.72E+03	1.71E+03	-1.66E+03	1.66E+03	-3.32E+04	3.33E+04
1/15	-2.67	-2.29E+03	2.28E+03	-2.22E+03	2.22E+03	-3.33E+04	3.34E+04
1/10	-4.00	-3.44E+03	3.42E+03	-3.33E+03	3.33E+03	-3.33E+04	3.34E+04

Table Q-1443. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.70E-04	-13.0	13.0	-12.7	12.7	-761.	760.
1/20	-5.10E-04	-38.9	38.9	-38.0	38.0	-761.	760.
1/15	-6.79E-04	-51.9	51.9	-50.7	50.7	-761.	760.
1/10	-1.02E-03	-77.9	77.8	-76.1	76.0	-761.	760.

Table Q-1444. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-32.6	-563.	490.	-558.	486.	-3.15E+04	3.11E+04
1/20	39.9	-1.59E+03	1.61E+03	-1.58E+03	1.59E+03	-3.23E+04	3.11E+04
1/15	103.	-2.11E+03	2.21E+03	-2.08E+03	2.19E+03	-3.28E+04	3.12E+04
1/10	285.	-3.15E+03	3.50E+03	-3.11E+03	3.46E+03	-3.40E+04	3.18E+04

Table Q-1445. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_x^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_x^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-32.6	-562.	491.	-558.	487.	-3.15E+04	3.12E+04
1/20	39.9	-1.58E+03	1.62E+03	-1.57E+03	1.60E+03	-3.22E+04	3.12E+04
1/15	103.	-2.10E+03	2.22E+03	-2.07E+03	2.20E+03	-3.26E+04	3.14E+04
1/10	285.	-3.13E+03	3.53E+03	-3.09E+03	3.49E+03	-3.37E+04	3.21E+04

Table Q–1446. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	195.	-174.	612.	-142.	605.	-2.03E+04	2.45E+04
1/20	588.	-733.	1.89E+03	-610.	1.69E+03	-2.40E+04	2.20E+04
1/15	739.	-1.11E+03	2.00E+03	-949.	1.98E+03	-2.53E+04	1.86E+04
1/10	1.10E+03	-3.00E+03	7.57E+03	-1.02E+03	3.57E+03	-2.12E+04	2.47E+04

Table Q–1447. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1448. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

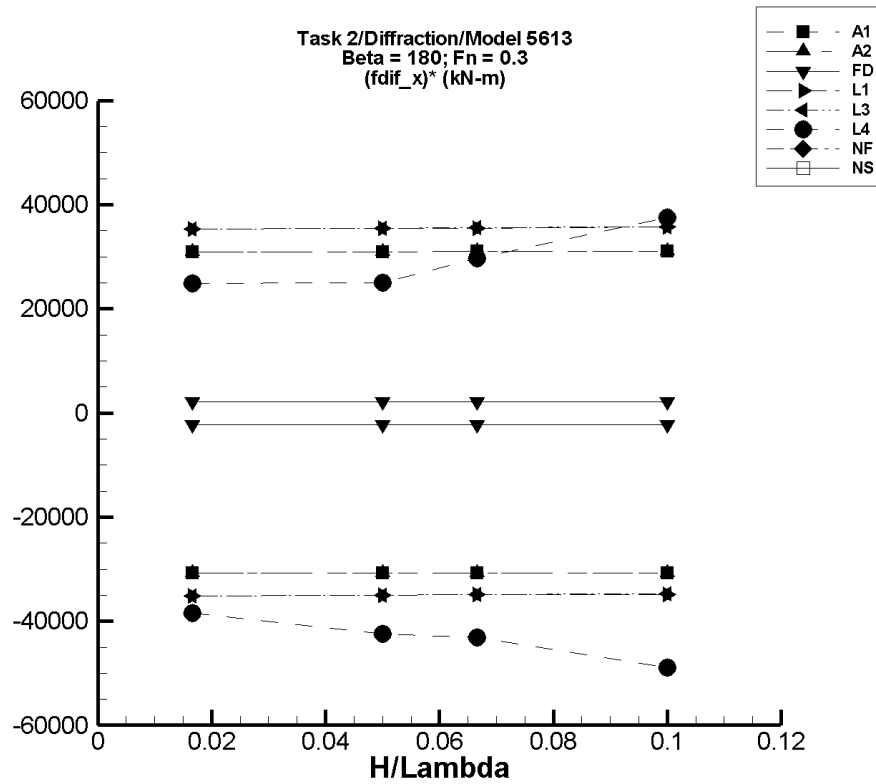


Figure Q-182. Minimum and maximum of filtered  $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1449. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.34	-531.	543.	-515.	512.	-3.07E+04	3.09E+04
1/20	-10.0	-1.60E+03	1.63E+03	-1.55E+03	1.54E+03	-3.08E+04	3.10E+04
1/15	-13.4	-2.13E+03	2.18E+03	-2.07E+03	2.05E+03	-3.08E+04	3.10E+04
1/10	-20.1	-3.20E+03	3.27E+03	-3.10E+03	3.08E+03	-3.08E+04	3.10E+04

Table Q-1450. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.34	-531.	543.	-515.	512.	-3.07E+04	3.09E+04
1/20	-10.0	-1.60E+03	1.63E+03	-1.55E+03	1.54E+03	-3.08E+04	3.10E+04
1/15	-13.4	-2.13E+03	2.18E+03	-2.07E+03	2.05E+03	-3.08E+04	3.10E+04
1/10	-20.1	-3.20E+03	3.27E+03	-3.10E+03	3.08E+03	-3.08E+04	3.10E+04

Table Q-1451. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.23E-03	-37.7	37.6	-36.5	36.4	-2.19E+03	2.19E+03
1/20	9.71E-03	-113.	113.	-109.	109.	-2.19E+03	2.19E+03
1/15	1.29E-02	-151.	151.	-146.	146.	-2.19E+03	2.19E+03
1/10	1.94E-02	-226.	226.	-219.	219.	-2.19E+03	2.19E+03

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Table Q-1452. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-26.6	-618.	568.	-612.	562.	-3.51E+04	3.53E+04
1/20	95.6	-1.67E+03	1.89E+03	-1.65E+03	1.87E+03	-3.50E+04	3.54E+04
1/15	203.	-2.15E+03	2.60E+03	-2.13E+03	2.57E+03	-3.49E+04	3.55E+04
1/10	509.	-3.01E+03	4.12E+03	-2.97E+03	4.08E+03	-3.48E+04	3.57E+04

Table Q-1453. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-26.5	-618.	569.	-612.	562.	-3.51E+04	3.53E+04
1/20	95.7	-1.67E+03	1.89E+03	-1.65E+03	1.87E+03	-3.50E+04	3.55E+04
1/15	203.	-2.15E+03	2.60E+03	-2.12E+03	2.57E+03	-3.49E+04	3.56E+04
1/10	510.	-3.01E+03	4.13E+03	-2.97E+03	4.09E+03	-3.48E+04	3.58E+04

Table Q-1454. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>F_x^{\text{dif}}</math></b>		<b>Filtered <math>(F_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	153.	-608.	712.	-488.	568.	-3.85E+04	2.49E+04
1/20	363.	-2.71E+03	2.03E+03	-1.76E+03	1.61E+03	-4.24E+04	2.50E+04
1/15	498.	-3.38E+03	2.88E+03	-2.38E+03	2.48E+03	-4.31E+04	2.97E+04
1/10	941.	-5.60E+03	1.05E+04	-3.95E+03	4.69E+03	-4.89E+04	3.75E+04

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Table Q–1455. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1456. Minimum and Maximum of Variables  $F_x^{\text{dif}}$  and  $(F_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_x^{\text{dif}} \rangle$	Unfiltered $F_x^{\text{dif}}$		Filtered $F_x^{\text{dif}}$		Filtered $(F_x^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



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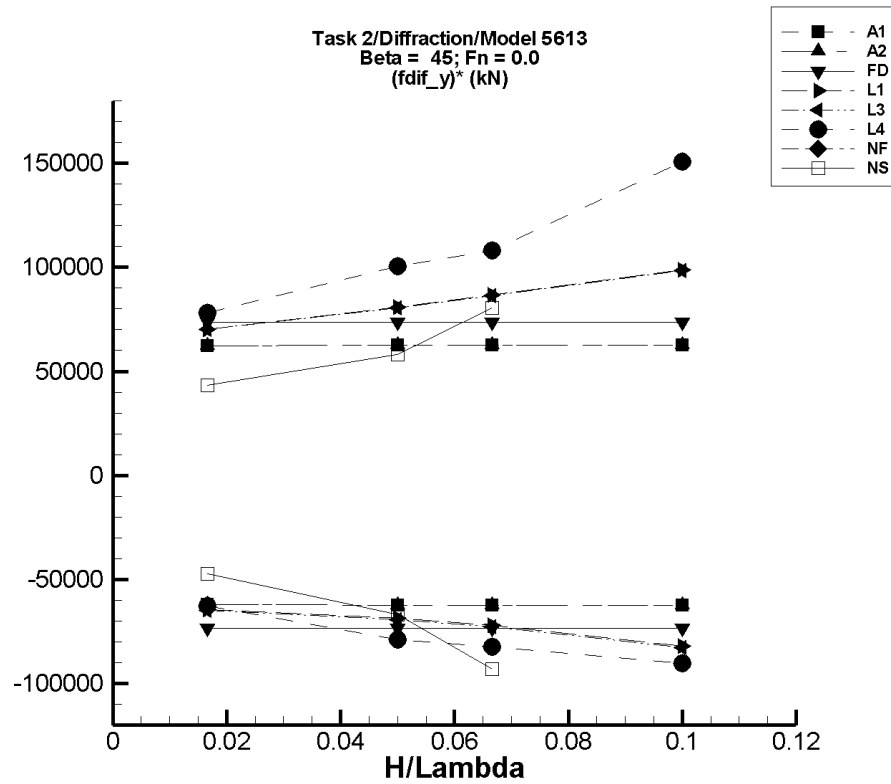


Figure Q-183. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1457. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.89	-1.05E+03	1.05E+03	-1.04E+03	1.04E+03	-6.21E+04	6.23E+04
1/20	-5.67	-3.15E+03	3.15E+03	-3.12E+03	3.12E+03	-6.23E+04	6.25E+04
1/15	-7.57	-4.21E+03	4.20E+03	-4.17E+03	4.16E+03	-6.24E+04	6.26E+04
1/10	-11.4	-6.31E+03	6.31E+03	-6.25E+03	6.25E+03	-6.24E+04	6.26E+04

Table Q-1458. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.89	-1.05E+03	1.05E+03	-1.04E+03	1.04E+03	-6.21E+04	6.23E+04
1/20	-5.67	-3.15E+03	3.15E+03	-3.12E+03	3.12E+03	-6.23E+04	6.25E+04
1/15	-7.57	-4.21E+03	4.20E+03	-4.17E+03	4.16E+03	-6.24E+04	6.26E+04
1/10	-11.4	-6.31E+03	6.31E+03	-6.25E+03	6.25E+03	-6.24E+04	6.26E+04

Table Q-1459. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.15E-02	-1.24E+03	1.24E+03	-1.23E+03	1.23E+03	-7.35E+04	7.35E+04
1/20	3.41E-02	-3.71E+03	3.71E+03	-3.68E+03	3.68E+03	-7.35E+04	7.35E+04
1/15	4.56E-02	-4.95E+03	4.95E+03	-4.90E+03	4.90E+03	-7.35E+04	7.35E+04
1/10	6.84E-02	-7.43E+03	7.43E+03	-7.35E+03	7.35E+03	-7.35E+04	7.35E+04

Table Q-1460. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-200.	-1.28E+03	975.	-1.27E+03	970.	-6.44E+04	7.02E+04
1/20	-1.80E+03	-5.22E+03	2.26E+03	-5.24E+03	2.24E+03	-6.87E+04	8.08E+04
1/15	-3.21E+03	-8.03E+03	2.61E+03	-8.01E+03	2.57E+03	-7.20E+04	8.66E+04
1/10	-7.22E+03	-1.55E+04	2.75E+03	-1.54E+04	2.67E+03	-8.19E+04	9.89E+04

Table Q-1461. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-200.	-1.28E+03	972.	-1.28E+03	967.	-6.47E+04	7.00E+04
1/20	-1.80E+03	-5.25E+03	2.24E+03	-5.27E+03	2.22E+03	-6.92E+04	8.04E+04
1/15	-3.21E+03	-8.08E+03	2.58E+03	-8.05E+03	2.54E+03	-7.26E+04	8.62E+04
1/10	-7.22E+03	-1.56E+04	2.70E+03	-1.55E+04	2.62E+03	-8.27E+04	9.84E+04

Table Q-1462. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	78.9	-1.05E+03	1.50E+03	-966.	1.38E+03	-6.27E+04	7.81E+04
1/20	819.	-3.83E+03	6.33E+03	-3.13E+03	5.84E+03	-7.90E+04	1.00E+05
1/15	1.73E+03	-4.24E+03	9.75E+03	-3.77E+03	8.92E+03	-8.24E+04	1.08E+05
1/10	3.57E+03	-7.80E+03	2.02E+04	-5.45E+03	1.87E+04	-9.03E+04	1.51E+05

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Table Q-1463. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1464. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	138.	-657.	888.	-649.	859.	-4.72E+04	4.33E+04
1/20	1.16E+03	-2.33E+03	4.86E+03	-2.18E+03	4.07E+03	-6.68E+04	5.83E+04
1/15	2.00E+03	-4.54E+03	7.57E+03	-4.20E+03	7.36E+03	-9.30E+04	8.03E+04
1/10	—	—	—	—	—	—	—

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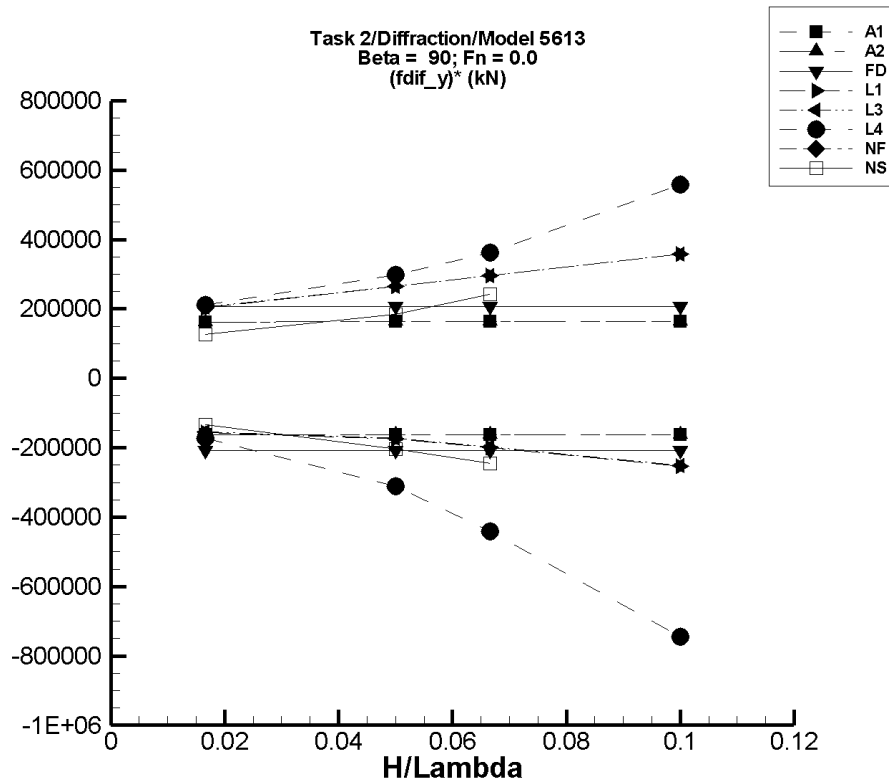


Figure Q-184. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1465. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.43	-2.73E+03	2.76E+03	-2.70E+03	2.71E+03	-1.62E+05	1.63E+05
1/20	-7.32	-8.21E+03	8.29E+03	-8.12E+03	8.14E+03	-1.62E+05	1.63E+05
1/15	-9.77	-1.10E+04	1.11E+04	-1.08E+04	1.09E+04	-1.62E+05	1.63E+05
1/10	-14.7	-1.64E+04	1.66E+04	-1.63E+04	1.63E+04	-1.62E+05	1.63E+05

Table Q–1466. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.43	-2.73E+03	2.76E+03	-2.70E+03	2.71E+03	-1.62E+05	1.63E+05
1/20	-7.32	-8.21E+03	8.29E+03	-8.12E+03	8.14E+03	-1.62E+05	1.63E+05
1/15	-9.77	-1.10E+04	1.11E+04	-1.08E+04	1.09E+04	-1.62E+05	1.63E+05
1/10	-14.7	-1.64E+04	1.66E+04	-1.63E+04	1.63E+04	-1.62E+05	1.63E+05

Table Q-1467. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.926	-3.50E+03	3.50E+03	-3.46E+03	3.46E+03	-2.08E+05	2.08E+05
1/20	-2.78	-1.05E+04	1.05E+04	-1.04E+04	1.04E+04	-2.08E+05	2.08E+05
1/15	-3.70	-1.40E+04	1.40E+04	-1.38E+04	1.38E+04	-2.08E+05	2.08E+05
1/10	-5.56	-2.10E+04	2.10E+04	-2.08E+04	2.08E+04	-2.08E+05	2.08E+05

Table Q-1468. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-382.	-2.98E+03	3.03E+03	-2.97E+03	3.01E+03	-1.55E+05	2.04E+05
1/20	-3.43E+03	-1.23E+04	9.87E+03	-1.22E+04	9.78E+03	-1.76E+05	2.64E+05
1/15	-6.10E+03	-1.95E+04	1.37E+04	-1.94E+04	1.36E+04	-2.00E+05	2.95E+05
1/10	-1.37E+04	-3.94E+04	2.23E+04	-3.91E+04	2.20E+04	-2.54E+05	3.57E+05



Table Q-1469. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-382.	-2.96E+03	3.04E+03	-2.95E+03	3.02E+03	-1.54E+05	2.04E+05
1/20	-3.43E+03	-1.22E+04	9.91E+03	-1.21E+04	9.81E+03	-1.73E+05	2.65E+05
1/15	-6.10E+03	-1.93E+04	1.38E+04	-1.92E+04	1.36E+04	-1.97E+05	2.96E+05
1/10	-1.37E+04	-3.91E+04	2.23E+04	-3.88E+04	2.20E+04	-2.51E+05	3.58E+05

Table Q-1470. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	252.	-2.82E+03	4.07E+03	-2.65E+03	3.77E+03	-1.74E+05	2.11E+05
1/20	1.80E+03	-1.43E+04	1.81E+04	-1.37E+04	1.67E+04	-3.11E+05	2.98E+05
1/15	3.29E+03	-2.67E+04	2.88E+04	-2.61E+04	2.74E+04	-4.41E+05	3.61E+05
1/10	5.56E+03	-7.10E+04	6.52E+04	-6.89E+04	6.13E+04	-7.45E+05	5.57E+05

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Table Q-1471. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1472. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	209.	-2.06E+03	2.38E+03	-2.04E+03	2.33E+03	-1.35E+05	1.27E+05
1/20	1.74E+03	-9.10E+03	1.16E+04	-8.49E+03	1.09E+04	-2.04E+05	1.84E+05
1/15	2.95E+03	-1.40E+04	1.99E+04	-1.34E+04	1.91E+04	-2.46E+05	2.42E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

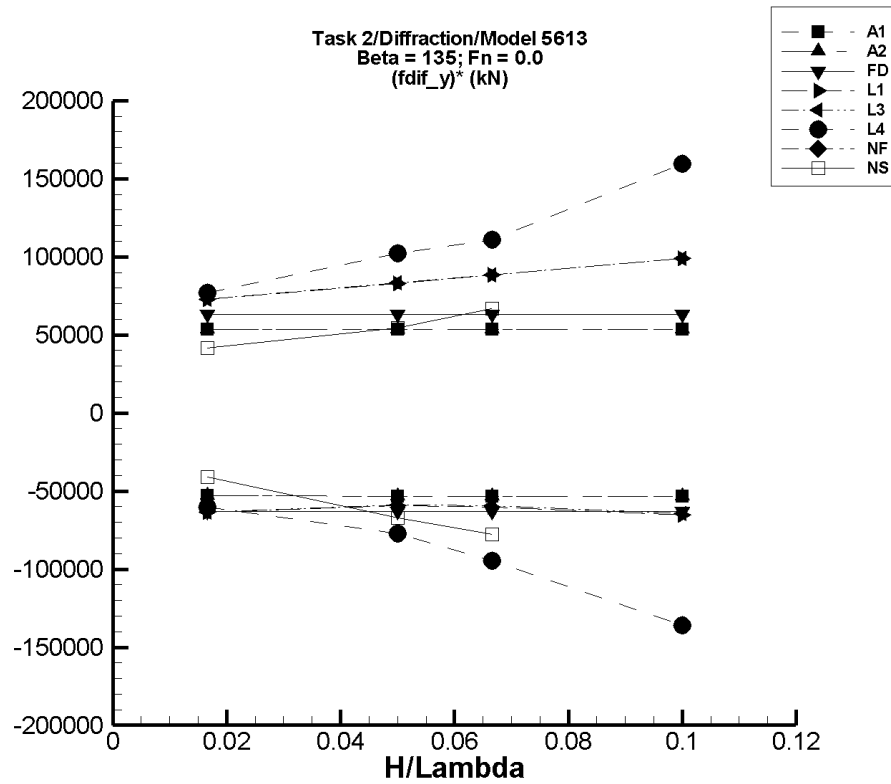


Figure Q-185. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1473. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.543	-901.	906.	-884.	889.	-5.31E+04	5.33E+04
1/20	1.63	-2.71E+03	2.73E+03	-2.66E+03	2.67E+03	-5.32E+04	5.35E+04
1/15	2.18	-3.62E+03	3.64E+03	-3.55E+03	3.57E+03	-5.33E+04	5.35E+04
1/10	3.27	-5.42E+03	5.46E+03	-5.33E+03	5.36E+03	-5.33E+04	5.35E+04

Table Q-1474. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.543	-901.	906.	-884.	889.	-5.31E+04	5.33E+04
1/20	1.63	-2.71E+03	2.73E+03	-2.66E+03	2.67E+03	-5.32E+04	5.35E+04
1/15	2.18	-3.62E+03	3.64E+03	-3.55E+03	3.57E+03	-5.33E+04	5.35E+04
1/10	3.27	-5.42E+03	5.46E+03	-5.33E+03	5.36E+03	-5.33E+04	5.35E+04

Table Q-1475. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.450	-1.06E+03	1.06E+03	-1.05E+03	1.05E+03	-6.31E+04	6.31E+04
1/20	-1.35	-3.19E+03	3.19E+03	-3.15E+03	3.15E+03	-6.31E+04	6.31E+04
1/15	-1.80	-4.25E+03	4.25E+03	-4.21E+03	4.20E+03	-6.31E+04	6.31E+04
1/10	-2.70	-6.37E+03	6.37E+03	-6.31E+03	6.31E+03	-6.31E+04	6.31E+04

Table Q-1476. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-179.	-1.24E+03	1.04E+03	-1.24E+03	1.03E+03	-6.36E+04	7.28E+04
1/20	-1.61E+03	-4.59E+03	2.57E+03	-4.57E+03	2.54E+03	-5.93E+04	8.30E+04
1/15	-2.86E+03	-6.89E+03	3.07E+03	-6.87E+03	3.03E+03	-6.02E+04	8.83E+04
1/10	-6.42E+03	-1.30E+04	3.54E+03	-1.30E+04	3.47E+03	-6.54E+04	9.89E+04

Table Q-1477. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-179.	-1.24E+03	1.04E+03	-1.24E+03	1.04E+03	-6.35E+04	7.29E+04
1/20	-1.61E+03	-4.55E+03	2.58E+03	-4.54E+03	2.55E+03	-5.87E+04	8.32E+04
1/15	-2.86E+03	-6.83E+03	3.08E+03	-6.81E+03	3.04E+03	-5.94E+04	8.84E+04
1/10	-6.42E+03	-1.29E+04	3.56E+03	-1.29E+04	3.49E+03	-6.45E+04	9.91E+04

Table Q-1478. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	105.	-972.	1.43E+03	-898.	1.39E+03	-6.02E+04	7.70E+04
1/20	919.	-3.46E+03	6.87E+03	-2.93E+03	6.03E+03	-7.70E+04	1.02E+05
1/15	1.82E+03	-5.62E+03	9.80E+03	-4.48E+03	9.20E+03	-9.46E+04	1.11E+05
1/10	3.83E+03	-1.26E+04	2.10E+04	-9.78E+03	1.98E+04	-1.36E+05	1.60E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1479. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1480. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	145.	-617.	851.	-539.	840.	-4.10E+04	4.17E+04
1/20	1.21E+03	-2.79E+03	4.08E+03	-2.14E+03	3.93E+03	-6.70E+04	5.45E+04
1/15	2.08E+03	-3.30E+03	6.65E+03	-3.09E+03	6.53E+03	-7.77E+04	6.66E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

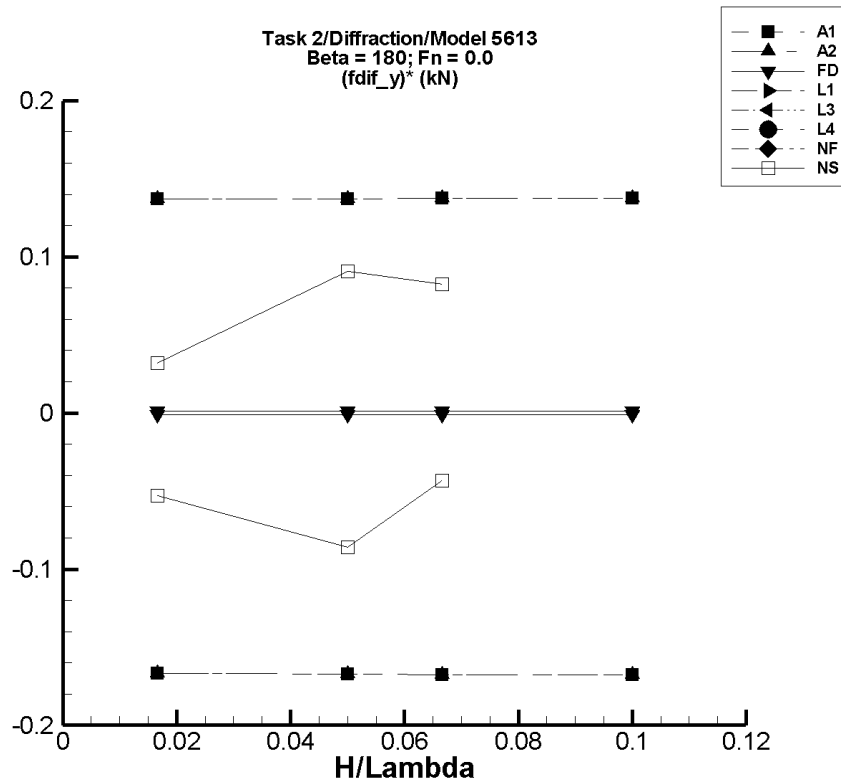


Figure Q-186. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q–1481. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.97E-05	-2.81E-03	2.44E-03	-2.75E-03	2.31E-03	-0.167	0.137
1/20	8.95E-05	-8.45E-03	7.35E-03	-8.27E-03	6.95E-03	-0.167	0.137
1/15	1.19E-04	-1.13E-02	9.81E-03	-1.10E-02	9.28E-03	-0.167	0.137
1/10	1.79E-04	-1.69E-02	1.47E-02	-1.66E-02	1.39E-02	-0.167	0.137

Table Q–1482. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	2.97E-05	-2.81E-03	2.44E-03	-2.75E-03	2.31E-03	-0.167	0.137
1/20	8.95E-05	-8.45E-03	7.35E-03	-8.27E-03	6.95E-03	-0.167	0.137
1/15	1.19E-04	-1.13E-02	9.81E-03	-1.10E-02	9.28E-03	-0.167	0.137
1/10	1.79E-04	-1.69E-02	1.47E-02	-1.66E-02	1.39E-02	-0.167	0.137

Table Q-1483. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.00E-08	-2.18E-05	2.18E-05	-2.16E-05	2.16E-05	-1.29E-03	1.29E-03
1/20	3.01E-08	-6.54E-05	6.54E-05	-6.47E-05	6.47E-05	-1.29E-03	1.29E-03
1/15	4.01E-08	-8.72E-05	8.72E-05	-8.63E-05	8.63E-05	-1.29E-03	1.29E-03
1/10	6.02E-08	-1.31E-04	1.31E-04	-1.29E-04	1.29E-04	-1.29E-03	1.29E-03

Table Q-1484. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1485. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1486. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1487. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1488. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.70E-05	-2.22E-03	1.69E-03	-9.06E-04	5.09E-04	-5.27E-02	3.21E-02
1/20	7.05E-05	-1.14E-02	9.10E-03	-4.23E-03	4.60E-03	-8.60E-02	9.07E-02
1/15	-2.07E-04	-7.47E-02	7.31E-02	-3.10E-03	5.28E-03	-4.34E-02	8.23E-02
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

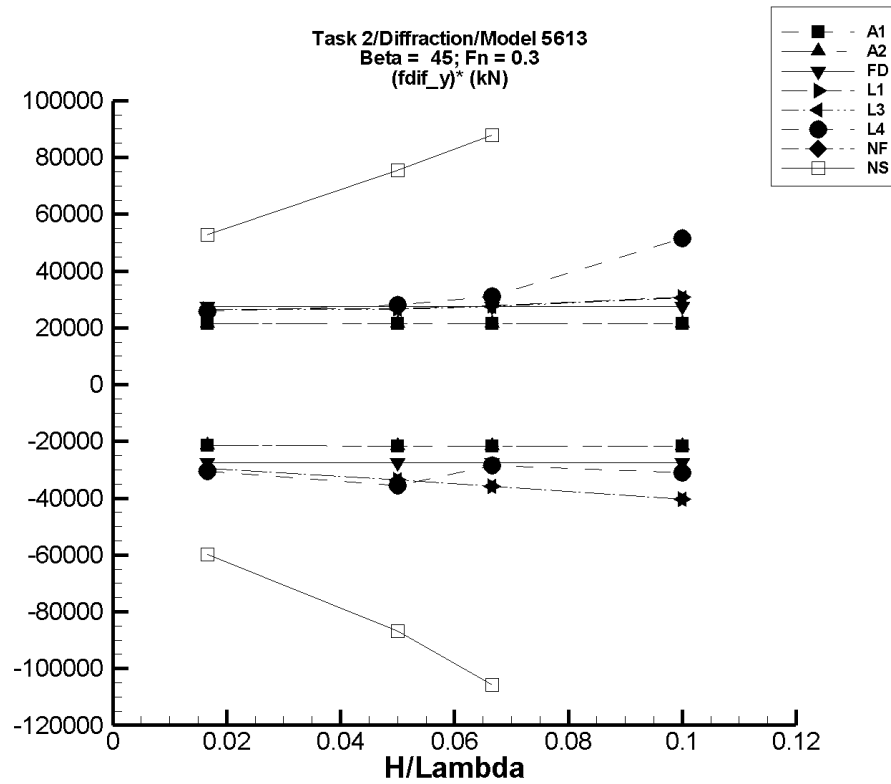


Figure Q-187. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1489. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.470	-361.	361.	-358.	358.	-2.15E+04	2.14E+04
1/20	1.41	-1.09E+03	1.08E+03	-1.08E+03	1.08E+03	-2.16E+04	2.15E+04
1/15	1.89	-1.45E+03	1.45E+03	-1.44E+03	1.44E+03	-2.16E+04	2.15E+04
1/10	2.83	-2.18E+03	2.17E+03	-2.16E+03	2.15E+03	-2.16E+04	2.15E+04

Table Q-1490. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.470	-361.	361.	-358.	358.	-2.15E+04	2.14E+04
1/20	1.41	-1.09E+03	1.08E+03	-1.08E+03	1.08E+03	-2.16E+04	2.15E+04
1/15	1.89	-1.45E+03	1.45E+03	-1.44E+03	1.44E+03	-2.16E+04	2.15E+04
1/10	2.83	-2.18E+03	2.17E+03	-2.16E+03	2.15E+03	-2.16E+04	2.15E+04

Table Q-1491. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.113	-459.	459.	-458.	458.	-2.75E+04	2.75E+04
1/20	0.340	-1.38E+03	1.38E+03	-1.37E+03	1.37E+03	-2.75E+04	2.75E+04
1/15	0.453	-1.84E+03	1.84E+03	-1.83E+03	1.83E+03	-2.75E+04	2.75E+04
1/10	0.679	-2.75E+03	2.75E+03	-2.75E+03	2.75E+03	-2.75E+04	2.75E+04

Table Q-1492. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-196.	-688.	248.	-687.	247.	-2.95E+04	2.66E+04
1/20	-1.76E+03	-3.45E+03	-429.	-3.44E+03	-427.	-3.36E+04	2.67E+04
1/15	-3.13E+03	-5.52E+03	-1.28E+03	-5.52E+03	-1.28E+03	-3.59E+04	2.77E+04
1/10	-7.05E+03	-1.11E+04	-3.95E+03	-1.11E+04	-3.96E+03	-4.04E+04	3.09E+04

Table Q-1493. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-196.	-687.	246.	-687.	246.	-2.95E+04	2.65E+04
1/20	-1.76E+03	-3.45E+03	-436.	-3.44E+03	-435.	-3.36E+04	2.65E+04
1/15	-3.13E+03	-5.53E+03	-1.29E+03	-5.52E+03	-1.30E+03	-3.59E+04	2.75E+04
1/10	-7.05E+03	-1.11E+04	-3.97E+03	-1.11E+04	-3.98E+03	-4.04E+04	3.07E+04

Table Q-1494. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	25.5	-649.	573.	-482.	456.	-3.05E+04	2.58E+04
1/20	554.	-2.03E+03	2.09E+03	-1.22E+03	1.96E+03	-3.56E+04	2.80E+04
1/15	1.29E+03	-4.15E+03	3.82E+03	-603.	3.36E+03	-2.84E+04	3.11E+04
1/10	3.02E+03	-3.37E+03	2.00E+04	-71.2	8.18E+03	-3.09E+04	5.15E+04



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1495. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1496. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	72.9	-933.	977.	-923.	951.	-5.98E+04	5.27E+04
1/20	653.	-3.74E+03	4.77E+03	-3.68E+03	4.43E+03	-8.67E+04	7.55E+04
1/15	1.10E+03	-6.01E+03	7.68E+03	-5.94E+03	6.97E+03	-1.06E+05	8.80E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

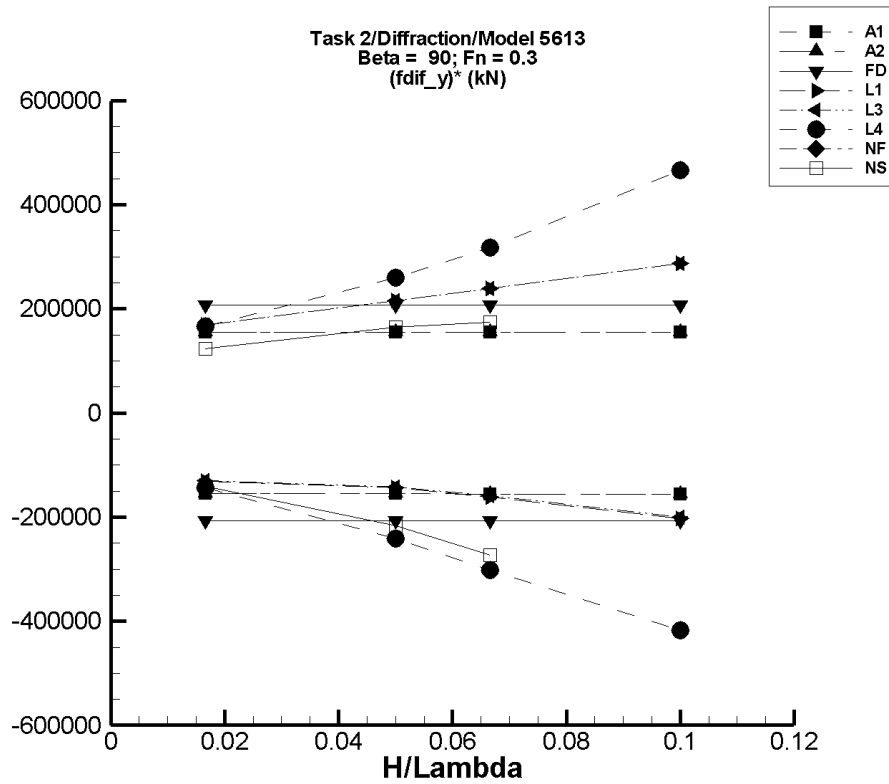


Figure Q-188. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1497. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.555	-2.61E+03	2.61E+03	-2.58E+03	2.58E+03	-1.55E+05	1.55E+05
1/20	-1.67	-7.85E+03	7.85E+03	-7.76E+03	7.76E+03	-1.55E+05	1.55E+05
1/15	-2.23	-1.05E+04	1.05E+04	-1.04E+04	1.04E+04	-1.55E+05	1.55E+05
1/10	-3.34	-1.57E+04	1.57E+04	-1.55E+04	1.55E+04	-1.55E+05	1.55E+05

Table Q–1498. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	-0.555	-2.61E+03	2.61E+03	-2.58E+03	2.58E+03	-1.55E+05	1.55E+05
1/20	-1.67	-7.85E+03	7.85E+03	-7.76E+03	7.76E+03	-1.55E+05	1.55E+05
1/15	-2.23	-1.05E+04	1.05E+04	-1.04E+04	1.04E+04	-1.55E+05	1.55E+05
1/10	-3.34	-1.57E+04	1.57E+04	-1.55E+04	1.55E+04	-1.55E+05	1.55E+05

Table Q–1499. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.927	-3.50E+03	3.50E+03	-3.46E+03	3.46E+03	-2.08E+05	2.08E+05
1/20	-2.78	-1.05E+04	1.05E+04	-1.04E+04	1.04E+04	-2.08E+05	2.08E+05
1/15	-3.71	-1.40E+04	1.40E+04	-1.38E+04	1.38E+04	-2.08E+05	2.08E+05
1/10	-5.56	-2.10E+04	2.10E+04	-2.08E+04	2.08E+04	-2.08E+05	2.08E+05

Table Q–1500. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-213.	-2.41E+03	2.61E+03	-2.40E+03	2.60E+03	-1.31E+05	1.69E+05
1/20	-1.92E+03	-9.18E+03	8.93E+03	-9.13E+03	8.85E+03	-1.44E+05	2.15E+05
1/15	-3.40E+03	-1.43E+04	1.27E+04	-1.42E+04	1.25E+04	-1.62E+05	2.39E+05
1/10	-7.66E+03	-2.81E+04	2.13E+04	-2.79E+04	2.10E+04	-2.03E+05	2.87E+05

Table Q–1501. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-213.	-2.39E+03	2.61E+03	-2.38E+03	2.60E+03	-1.30E+05	1.69E+05
1/20	-1.92E+03	-9.05E+03	8.94E+03	-9.00E+03	8.86E+03	-1.42E+05	2.15E+05
1/15	-3.40E+03	-1.41E+04	1.27E+04	-1.40E+04	1.25E+04	-1.59E+05	2.39E+05
1/10	-7.66E+03	-2.79E+04	2.13E+04	-2.77E+04	2.10E+04	-2.00E+05	2.87E+05

Table Q–1502. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	202.	-2.39E+03	3.25E+03	-2.20E+03	2.97E+03	-1.44E+05	1.66E+05
1/20	1.91E+03	-1.03E+04	1.50E+04	-1.01E+04	1.49E+04	-2.41E+05	2.60E+05
1/15	3.63E+03	-1.69E+04	2.52E+04	-1.65E+04	2.48E+04	-3.02E+05	3.17E+05
1/10	8.16E+03	-3.42E+04	5.57E+04	-3.36E+04	5.47E+04	-4.17E+05	4.66E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1503. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1504. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	84.1	-2.36E+03	2.15E+03	-2.28E+03	2.15E+03	-1.42E+05	1.24E+05
1/20	484.	-1.18E+04	9.65E+03	-1.03E+04	8.69E+03	-2.16E+05	1.64E+05
1/15	273.	-1.86E+04	1.24E+04	-1.79E+04	1.19E+04	-2.73E+05	1.74E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

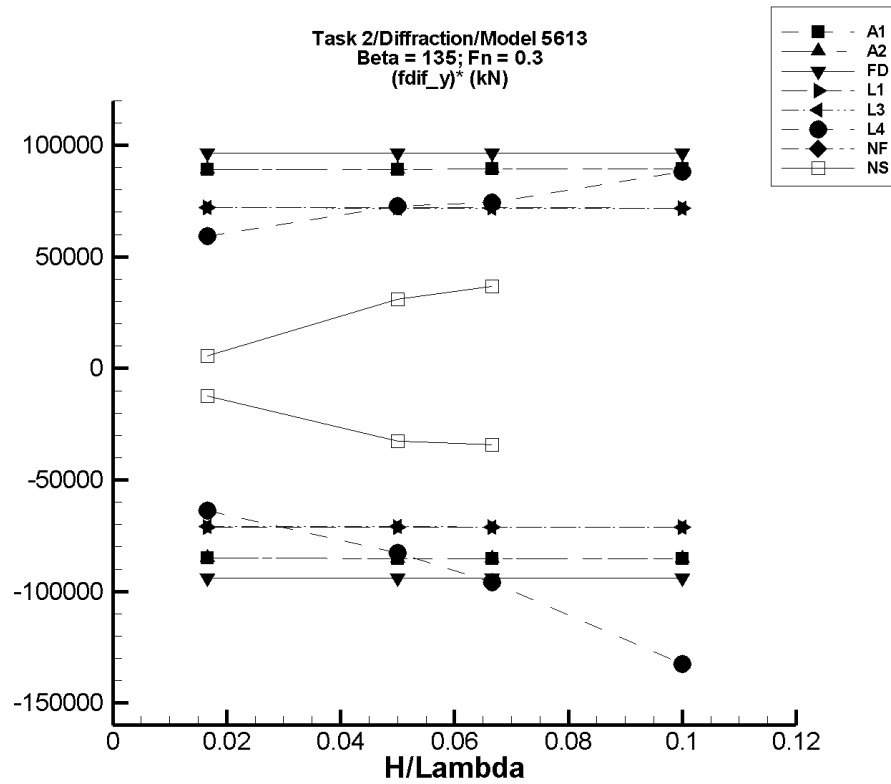


Figure Q-189. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1505. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.347	-1.45E+03	1.48E+03	-1.42E+03	1.48E+03	-8.51E+04	8.90E+04
1/20	1.04	-4.36E+03	4.44E+03	-4.26E+03	4.46E+03	-8.53E+04	8.92E+04
1/15	1.39	-5.83E+03	5.93E+03	-5.69E+03	5.95E+03	-8.54E+04	8.93E+04
1/10	2.09	-8.74E+03	8.90E+03	-8.54E+03	8.93E+03	-8.54E+04	8.93E+04

Table Q–1506. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	<b>Unfiltered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>F_y^{\text{dif}}</math></b>		<b>Filtered <math>(F_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>	<b>Min. (kN)</b>	<b>Max. (kN)</b>
1/60	0.347	-1.45E+03	1.48E+03	-1.42E+03	1.48E+03	-8.51E+04	8.90E+04
1/20	1.04	-4.36E+03	4.44E+03	-4.26E+03	4.46E+03	-8.53E+04	8.92E+04
1/15	1.39	-5.83E+03	5.93E+03	-5.69E+03	5.95E+03	-8.54E+04	8.93E+04
1/10	2.09	-8.74E+03	8.90E+03	-8.54E+03	8.93E+03	-8.54E+04	8.93E+04



Table Q–1507. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.97E-02	-1.61E+03	1.61E+03	-1.57E+03	1.61E+03	-9.41E+04	9.63E+04
1/20	0.179	-4.82E+03	4.82E+03	-4.71E+03	4.82E+03	-9.41E+04	9.63E+04
1/15	0.239	-6.43E+03	6.42E+03	-6.27E+03	6.42E+03	-9.41E+04	9.63E+04
1/10	0.359	-9.64E+03	9.63E+03	-9.41E+03	9.63E+03	-9.41E+04	9.63E+04

Table Q–1508. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-124.	-1.32E+03	1.07E+03	-1.31E+03	1.08E+03	-7.11E+04	7.22E+04
1/20	-1.12E+03	-4.71E+03	2.46E+03	-4.68E+03	2.49E+03	-7.12E+04	7.21E+04
1/15	-1.99E+03	-6.78E+03	2.77E+03	-6.74E+03	2.81E+03	-7.12E+04	7.20E+04
1/10	-4.47E+03	-1.17E+04	2.66E+03	-1.16E+04	2.72E+03	-7.13E+04	7.19E+04

Table Q–1509. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-124.	-1.32E+03	1.07E+03	-1.31E+03	1.08E+03	-7.09E+04	7.20E+04
1/20	-1.12E+03	-4.70E+03	2.45E+03	-4.67E+03	2.48E+03	-7.10E+04	7.19E+04
1/15	-1.99E+03	-6.76E+03	2.76E+03	-6.72E+03	2.80E+03	-7.10E+04	7.18E+04
1/10	-4.47E+03	-1.16E+04	2.65E+03	-1.16E+04	2.70E+03	-7.11E+04	7.17E+04

Table Q–1510. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	131.	-957.	1.28E+03	-931.	1.12E+03	-6.38E+04	5.92E+04
1/20	1.43E+03	-2.90E+03	7.42E+03	-2.71E+03	5.07E+03	-8.27E+04	7.28E+04
1/15	2.85E+03	-4.29E+03	8.63E+03	-3.55E+03	7.79E+03	-9.59E+04	7.42E+04
1/10	6.79E+03	-1.04E+04	1.64E+04	-6.48E+03	1.56E+04	-1.33E+05	8.80E+04

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1511. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1512. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	80.1	-162.	200.	-127.	174.	-1.24E+04	5.65E+03
1/20	510.	-1.46E+03	2.51E+03	-1.13E+03	2.05E+03	-3.27E+04	3.08E+04
1/15	889.	-2.05E+03	3.86E+03	-1.39E+03	3.34E+03	-3.42E+04	3.68E+04
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

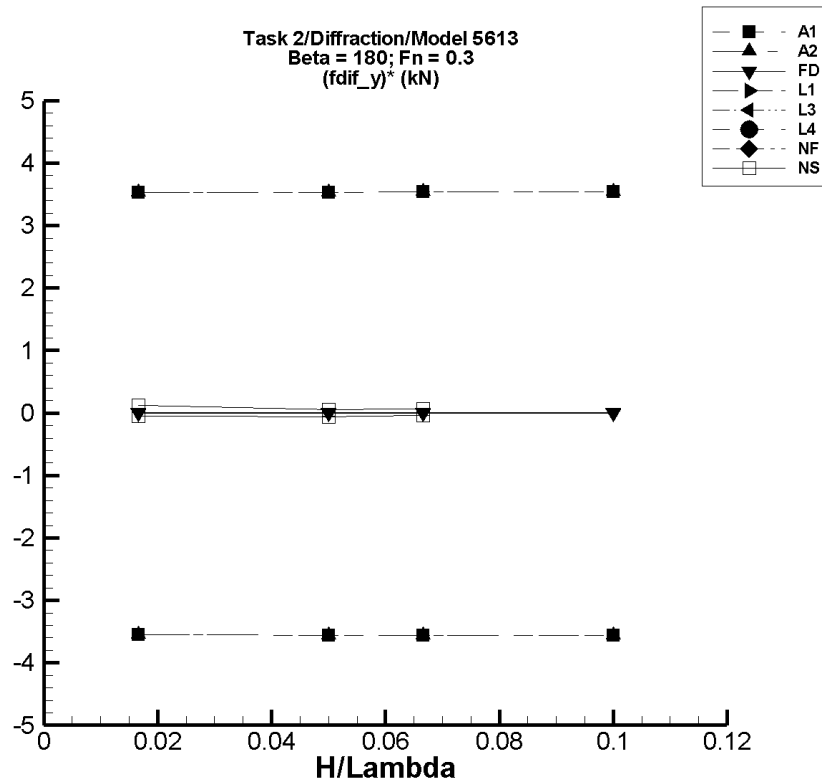


Figure Q-190. Minimum and maximum of filtered  $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1513. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.96E-04	-6.12E-02	6.08E-02	-5.90E-02	5.89E-02	-3.55	3.52
1/20	5.91E-04	-0.184	0.183	-0.177	0.177	-3.56	3.53
1/15	7.89E-04	-0.246	0.244	-0.237	0.237	-3.57	3.54
1/10	1.18E-03	-0.369	0.366	-0.355	0.355	-3.57	3.54

Table Q–1514. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.96E-04	-6.12E-02	6.08E-02	-5.90E-02	5.89E-02	-3.55	3.52
1/20	5.91E-04	-0.184	0.183	-0.177	0.177	-3.56	3.53
1/15	7.89E-04	-0.246	0.244	-0.237	0.237	-3.57	3.54
1/10	1.18E-03	-0.369	0.366	-0.355	0.355	-3.57	3.54

Table Q–1515. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.04E-08	-5.15E-05	5.16E-05	-5.00E-05	5.00E-05	-3.00E-03	3.00E-03
1/20	1.51E-07	-1.55E-04	1.55E-04	-1.50E-04	1.50E-04	-3.00E-03	3.00E-03
1/15	2.02E-07	-2.06E-04	2.06E-04	-2.00E-04	2.00E-04	-3.00E-03	3.00E-03
1/10	3.02E-07	-3.09E-04	3.10E-04	-3.00E-04	3.00E-04	-3.00E-03	3.00E-03

Table Q–1516. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1517. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1518. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1519. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1520. Minimum and Maximum of Variables  $F_y^{\text{dif}}$  and  $(F_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_y^{\text{dif}} \rangle$	Unfiltered $F_y^{\text{dif}}$		Filtered $F_y^{\text{dif}}$		Filtered $(F_y^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	4.81E-05	-1.67E-02	1.45E-02	-8.33E-04	2.05E-03	-5.29E-02	0.120
1/20	1.67E-04	-1.23E-02	1.25E-02	-3.06E-03	2.63E-03	-6.46E-02	4.92E-02
1/15	4.46E-04	-3.63E-02	3.16E-02	-1.86E-03	4.77E-03	-3.46E-02	6.49E-02
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

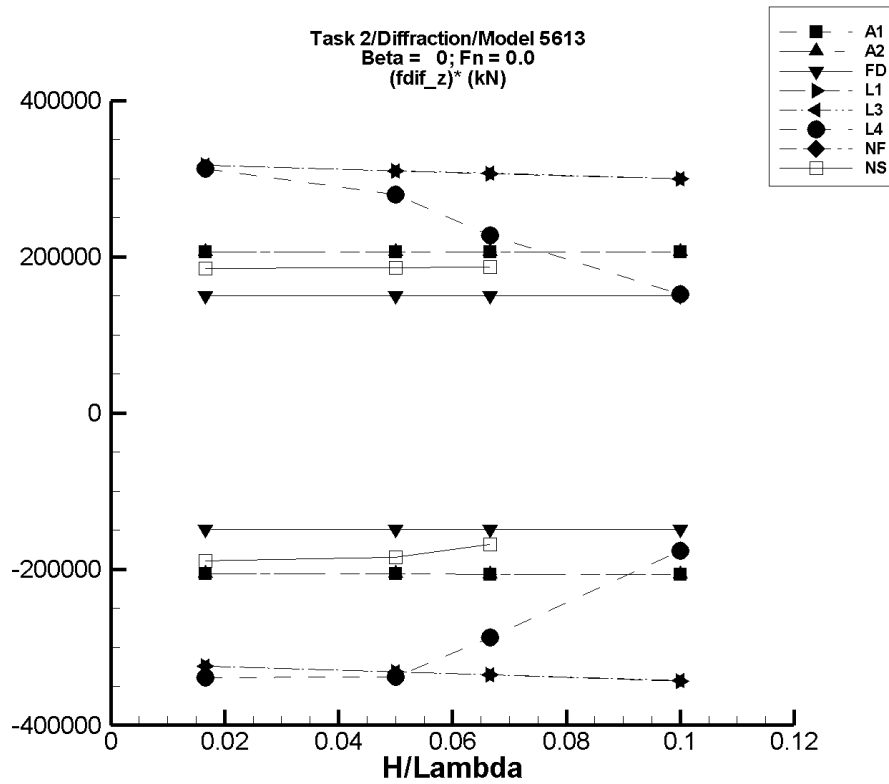


Figure Q-191. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1521. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-11.6	-3.47E+03	3.45E+03	-3.44E+03	3.42E+03	-2.06E+05	2.06E+05
1/20	-34.9	-1.05E+04	1.04E+04	-1.03E+04	1.03E+04	-2.06E+05	2.06E+05
1/15	-46.6	-1.40E+04	1.39E+04	-1.38E+04	1.37E+04	-2.07E+05	2.07E+05
1/10	-69.8	-2.09E+04	2.08E+04	-2.07E+04	2.06E+04	-2.07E+05	2.07E+05

Table Q-1522. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-11.6	-3.47E+03	3.45E+03	-3.44E+03	3.42E+03	-2.06E+05	2.06E+05
1/20	-34.9	-1.05E+04	1.04E+04	-1.03E+04	1.03E+04	-2.06E+05	2.06E+05
1/15	-46.6	-1.40E+04	1.39E+04	-1.38E+04	1.37E+04	-2.07E+05	2.07E+05
1/10	-69.8	-2.09E+04	2.08E+04	-2.07E+04	2.06E+04	-2.07E+05	2.07E+05

Table Q-1523. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-0.866	-2.51E+03	2.51E+03	-2.48E+03	2.51E+03	-1.49E+05	1.51E+05
1/20	-2.60	-7.52E+03	7.52E+03	-7.44E+03	7.52E+03	-1.49E+05	1.51E+05
1/15	-3.47	-1.00E+04	1.00E+04	-9.92E+03	1.00E+04	-1.49E+05	1.51E+05
1/10	-5.20	-1.50E+04	1.50E+04	-1.49E+04	1.50E+04	-1.49E+05	1.51E+05

Table Q–1524. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-289.	-5.72E+03	5.02E+03	-5.70E+03	5.00E+03	-3.24E+05	3.18E+05
1/20	-2.57E+03	-1.92E+04	1.30E+04	-1.92E+04	1.29E+04	-3.32E+05	3.10E+05
1/15	-4.57E+03	-2.70E+04	1.59E+04	-2.69E+04	1.59E+04	-3.36E+05	3.07E+05
1/10	-1.03E+04	-4.47E+04	1.98E+04	-4.46E+04	1.97E+04	-3.43E+05	2.99E+05

Table Q–1525. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-289.	-5.71E+03	5.02E+03	-5.69E+03	5.00E+03	-3.24E+05	3.18E+05
1/20	-2.57E+03	-1.92E+04	1.30E+04	-1.92E+04	1.29E+04	-3.32E+05	3.10E+05
1/15	-4.57E+03	-2.70E+04	1.60E+04	-2.69E+04	1.59E+04	-3.35E+05	3.07E+05
1/10	-1.03E+04	-4.47E+04	1.98E+04	-4.45E+04	1.97E+04	-3.43E+05	3.00E+05

Table Q–1526. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-383.	-6.08E+03	4.86E+03	-6.03E+03	4.84E+03	-3.39E+05	3.13E+05
1/20	-3.26E+03	-2.02E+04	1.09E+04	-2.01E+04	1.07E+04	-3.38E+05	2.80E+05
1/15	-6.12E+03	-2.58E+04	1.01E+04	-2.53E+04	9.03E+03	-2.87E+05	2.27E+05
1/10	-1.14E+04	-3.14E+04	5.98E+03	-2.91E+04	3.81E+03	-1.77E+05	1.52E+05

Table Q–1527. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1528. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-400.	-3.58E+03	2.73E+03	-3.55E+03	2.69E+03	-1.89E+05	1.85E+05
1/20	-3.60E+03	-1.31E+04	5.99E+03	-1.28E+04	5.68E+03	-1.84E+05	1.86E+05
1/15	-5.99E+03	-1.76E+04	6.98E+03	-1.72E+04	6.48E+03	-1.68E+05	1.87E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

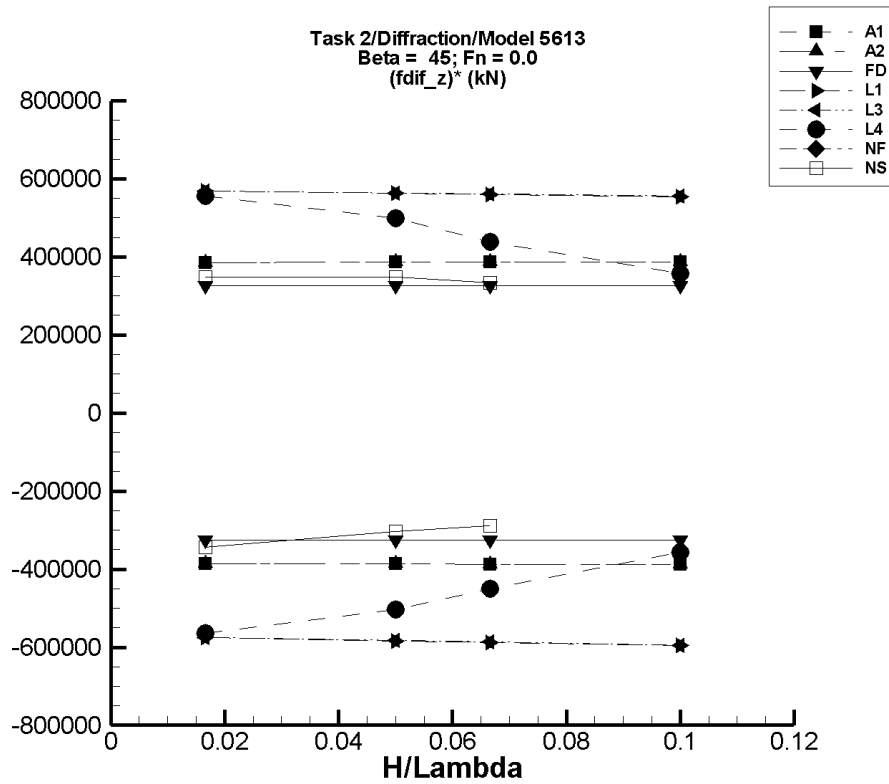


Figure Q-192. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1529. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-16.1	-6.51E+03	6.48E+03	-6.45E+03	6.41E+03	-3.86E+05	3.86E+05
1/20	-48.3	-1.96E+04	1.95E+04	-1.94E+04	1.93E+04	-3.87E+05	3.87E+05
1/15	-64.5	-2.62E+04	2.60E+04	-2.59E+04	2.57E+04	-3.87E+05	3.87E+05
1/10	-96.8	-3.92E+04	3.90E+04	-3.88E+04	3.86E+04	-3.87E+05	3.87E+05

Table Q–1530. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-16.1	-6.51E+03	6.48E+03	-6.45E+03	6.41E+03	-3.86E+05	3.86E+05
1/20	-48.3	-1.96E+04	1.95E+04	-1.94E+04	1.93E+04	-3.87E+05	3.87E+05
1/15	-64.5	-2.62E+04	2.60E+04	-2.59E+04	2.57E+04	-3.87E+05	3.87E+05
1/10	-96.8	-3.92E+04	3.90E+04	-3.88E+04	3.86E+04	-3.87E+05	3.87E+05

Table Q–1531. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-2.31	-5.50E+03	5.49E+03	-5.44E+03	5.44E+03	-3.26E+05	3.26E+05
1/20	-6.94	-1.65E+04	1.65E+04	-1.63E+04	1.63E+04	-3.26E+05	3.26E+05
1/15	-9.25	-2.20E+04	2.20E+04	-2.18E+04	2.18E+04	-3.26E+05	3.26E+05
1/10	-13.9	-3.30E+04	3.30E+04	-3.26E+04	3.26E+04	-3.26E+05	3.26E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1532. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-518.	-1.02E+04	9.00E+03	-1.01E+04	8.97E+03	-5.76E+05	5.69E+05
1/20	-4.63E+03	-3.39E+04	2.36E+04	-3.38E+04	2.35E+04	-5.84E+05	5.63E+05
1/15	-8.22E+03	-4.76E+04	2.92E+04	-4.74E+04	2.91E+04	-5.88E+05	5.60E+05
1/10	-1.85E+04	-7.83E+04	3.71E+04	-7.81E+04	3.69E+04	-5.96E+05	5.54E+05

Table Q-1533. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-518.	-1.01E+04	9.00E+03	-1.01E+04	8.97E+03	-5.76E+05	5.69E+05
1/20	-4.63E+03	-3.39E+04	2.36E+04	-3.38E+04	2.35E+04	-5.83E+05	5.63E+05
1/15	-8.22E+03	-4.75E+04	2.93E+04	-4.73E+04	2.91E+04	-5.87E+05	5.60E+05
1/10	-1.85E+04	-7.82E+04	3.72E+04	-7.80E+04	3.70E+04	-5.95E+05	5.55E+05



Table Q–1534. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-607.	-1.01E+04	8.68E+03	-1.00E+04	8.64E+03	-5.65E+05	5.55E+05
1/20	-5.06E+03	-3.05E+04	2.01E+04	-3.02E+04	1.99E+04	-5.04E+05	4.99E+05
1/15	-8.71E+03	-3.90E+04	2.10E+04	-3.88E+04	2.05E+04	-4.51E+05	4.39E+05
1/10	-1.52E+04	-5.21E+04	2.50E+04	-5.09E+04	2.05E+04	-3.57E+05	3.57E+05

Table Q–1535. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1536. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-488.	-6.28E+03	5.39E+03	-6.21E+03	5.32E+03	-3.43E+05	3.48E+05
1/20	-4.12E+03	-1.97E+04	1.38E+04	-1.93E+04	1.33E+04	-3.04E+05	3.48E+05
1/15	-6.69E+03	-2.63E+04	1.75E+04	-2.59E+04	1.56E+04	-2.88E+05	3.34E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

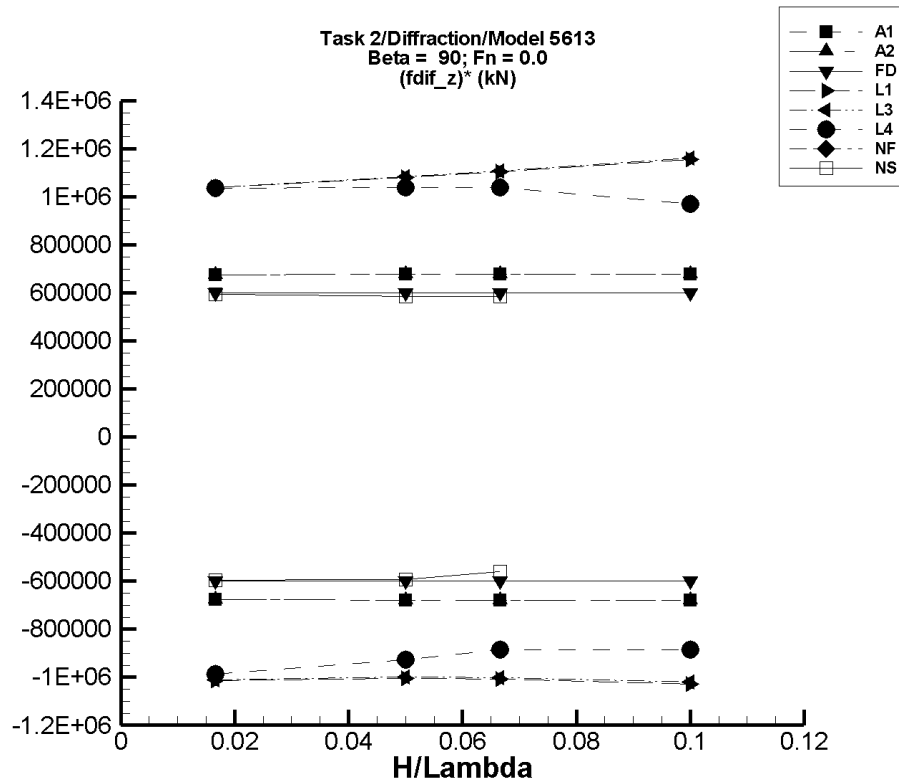


Figure Q–193. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1537. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$ Min. (kN)	Unfiltered $F_z^{\text{dif}}$ Max. (kN)	Filtered $F_z^{\text{dif}}$ Min. (kN)	Filtered $F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-15.7	-1.14E+04	1.14E+04	-1.13E+04	1.12E+04	-6.77E+05	6.75E+05
1/20	-47.4	-3.43E+04	3.41E+04	-3.40E+04	3.38E+04	-6.78E+05	6.77E+05
1/15	-63.2	-4.58E+04	4.56E+04	-4.53E+04	4.51E+04	-6.79E+05	6.78E+05
1/10	-94.8	-6.87E+04	6.84E+04	-6.80E+04	6.77E+04	-6.79E+05	6.78E+05

Table Q–1538. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$ Min. (kN)	Unfiltered $F_z^{\text{dif}}$ Max. (kN)	Filtered $F_z^{\text{dif}}$ Min. (kN)	Filtered $F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-15.7	-1.14E+04	1.14E+04	-1.13E+04	1.12E+04	-6.77E+05	6.75E+05
1/20	-47.4	-3.43E+04	3.41E+04	-3.40E+04	3.38E+04	-6.78E+05	6.77E+05
1/15	-63.2	-4.58E+04	4.56E+04	-4.53E+04	4.51E+04	-6.79E+05	6.78E+05
1/10	-94.8	-6.87E+04	6.84E+04	-6.80E+04	6.77E+04	-6.79E+05	6.78E+05

Table Q–1539. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$ Min. (kN)	Unfiltered $F_z^{\text{dif}}$ Max. (kN)	Filtered $F_z^{\text{dif}}$ Min. (kN)	Filtered $F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-4.66	-1.01E+04	1.01E+04	-9.99E+03	9.99E+03	-5.99E+05	6.00E+05
1/20	-14.0	-3.03E+04	3.03E+04	-3.00E+04	3.00E+04	-5.99E+05	6.00E+05
1/15	-18.7	-4.04E+04	4.04E+04	-4.00E+04	4.00E+04	-5.99E+05	6.00E+05
1/10	-28.0	-6.05E+04	6.05E+04	-5.99E+04	5.99E+04	-5.99E+05	6.00E+05

Table Q–1540. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-850.	-1.78E+04	1.65E+04	-1.77E+04	1.65E+04	-1.01E+06	1.04E+06
1/20	-7.64E+03	-5.80E+04	4.66E+04	-5.79E+04	4.63E+04	-1.00E+06	1.08E+06
1/15	-1.36E+04	-8.10E+04	6.03E+04	-8.08E+04	6.00E+04	-1.01E+06	1.10E+06
1/10	-3.06E+04	-1.34E+05	8.57E+04	-1.33E+05	8.51E+04	-1.03E+06	1.16E+06

Table Q–1541. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-850.	-1.78E+04	1.65E+04	-1.77E+04	1.65E+04	-1.01E+06	1.04E+06
1/20	-7.64E+03	-5.78E+04	4.67E+04	-5.76E+04	4.65E+04	-1.00E+06	1.08E+06
1/15	-1.36E+04	-8.06E+04	6.06E+04	-8.04E+04	6.02E+04	-1.00E+06	1.11E+06
1/10	-3.06E+04	-1.33E+05	8.61E+04	-1.33E+05	8.55E+04	-1.02E+06	1.16E+06

Table Q–1542. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-896.	-1.78E+04	1.66E+04	-1.74E+04	1.64E+04	-9.88E+05	1.03E+06
1/20	-7.26E+03	-5.41E+04	4.51E+04	-5.36E+04	4.46E+04	-9.27E+05	1.04E+06
1/15	-1.13E+04	-7.13E+04	5.87E+04	-7.03E+04	5.79E+04	-8.84E+05	1.04E+06
1/10	-1.54E+04	-1.06E+05	8.42E+04	-1.04E+05	8.15E+04	-8.86E+05	9.69E+05

Table Q–1543. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1544. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-588.	-1.06E+04	9.50E+03	-1.05E+04	9.33E+03	-5.97E+05	5.95E+05
1/20	-4.69E+03	-3.56E+04	2.70E+04	-3.43E+04	2.46E+04	-5.92E+05	5.86E+05
1/15	-7.45E+03	-4.55E+04	3.89E+04	-4.47E+04	3.16E+04	-5.59E+05	5.86E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

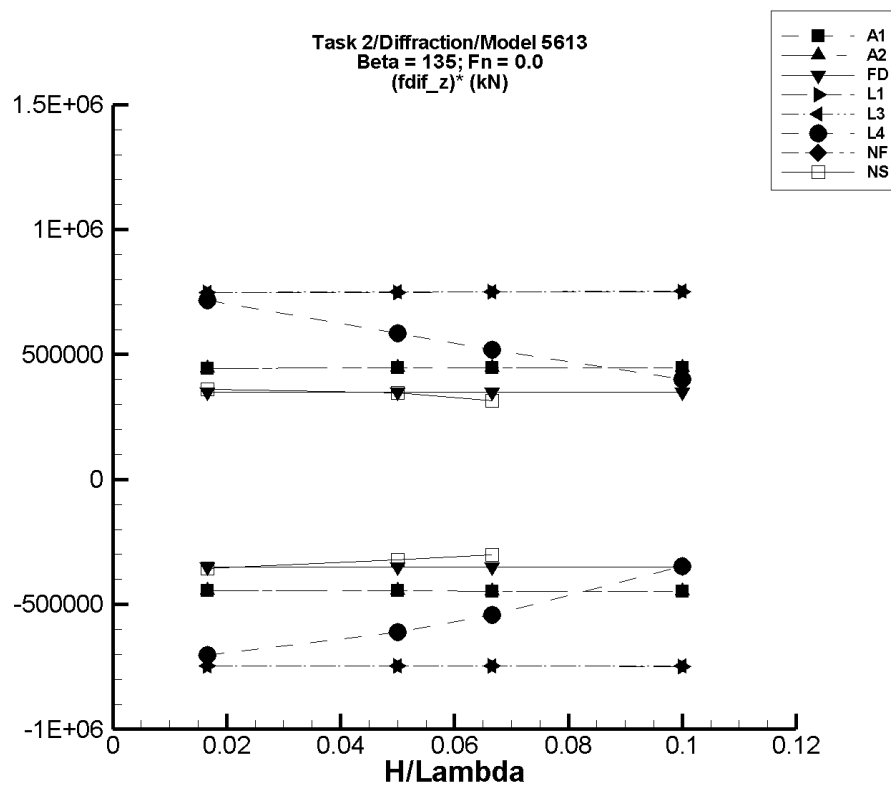


Figure Q-194. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q–1545. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-11.6	-7.52E+03	7.49E+03	-7.43E+03	7.41E+03	-4.45E+05	4.45E+05
1/20	-35.0	-2.26E+04	2.25E+04	-2.24E+04	2.23E+04	-4.46E+05	4.46E+05
1/15	-46.8	-3.02E+04	3.01E+04	-2.98E+04	2.97E+04	-4.47E+05	4.47E+05
1/10	-70.1	-4.53E+04	4.51E+04	-4.48E+04	4.46E+04	-4.47E+05	4.47E+05

Table Q–1546. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-11.6	-7.52E+03	7.49E+03	-7.43E+03	7.41E+03	-4.45E+05	4.45E+05
1/20	-35.0	-2.26E+04	2.25E+04	-2.24E+04	2.23E+04	-4.46E+05	4.46E+05
1/15	-46.8	-3.02E+04	3.01E+04	-2.98E+04	2.97E+04	-4.47E+05	4.47E+05
1/10	-70.1	-4.53E+04	4.51E+04	-4.48E+04	4.46E+04	-4.47E+05	4.47E+05

Table Q–1547. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> <b>(kN)</b>	<b>Unfiltered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$F_z^{\text{dif}}$ <b>Max.</b> <b>(kN)</b>	<b>Filtered</b> <b>Min.</b> <b>(kN)</b>	$(F_z^{\text{dif}})^*$ <b>Max.</b> <b>(kN)</b>
1/60	-2.46	-5.89E+03	5.89E+03	-5.83E+03	5.83E+03	-3.49E+05	3.50E+05
1/20	-7.39	-1.77E+04	1.77E+04	-1.75E+04	1.75E+04	-3.49E+05	3.50E+05
1/15	-9.85	-2.35E+04	2.35E+04	-2.33E+04	2.33E+04	-3.49E+05	3.50E+05
1/10	-14.8	-3.53E+04	3.53E+04	-3.50E+04	3.50E+04	-3.49E+05	3.50E+05

Table Q–1548. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-576.	-1.31E+04	1.19E+04	-1.30E+04	1.19E+04	-7.46E+05	7.48E+05
1/20	-5.11E+03	-4.26E+04	3.25E+04	-4.24E+04	3.24E+04	-7.46E+05	7.49E+05
1/15	-9.06E+03	-5.90E+04	4.11E+04	-5.88E+04	4.09E+04	-7.47E+05	7.50E+05
1/10	-2.04E+04	-9.54E+04	5.51E+04	-9.51E+04	5.49E+04	-7.48E+05	7.52E+05

Table Q–1549. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-577.	-1.31E+04	1.19E+04	-1.30E+04	1.19E+04	-7.46E+05	7.48E+05
1/20	-5.11E+03	-4.25E+04	3.25E+04	-4.24E+04	3.24E+04	-7.46E+05	7.50E+05
1/15	-9.06E+03	-5.90E+04	4.12E+04	-5.88E+04	4.10E+04	-7.46E+05	7.51E+05
1/10	-2.04E+04	-9.53E+04	5.53E+04	-9.50E+04	5.50E+04	-7.46E+05	7.53E+05

Table Q–1550. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-746.	-1.26E+04	1.13E+04	-1.24E+04	1.12E+04	-7.02E+05	7.16E+05
1/20	-6.62E+03	-3.75E+04	2.28E+04	-3.72E+04	2.26E+04	-6.11E+05	5.85E+05
1/15	-1.14E+04	-4.79E+04	2.39E+04	-4.76E+04	2.32E+04	-5.42E+05	5.19E+05
1/10	-1.76E+04	-6.89E+04	2.46E+04	-5.24E+04	2.25E+04	-3.48E+05	4.01E+05

Table Q–1551. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1552. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-473.	-6.52E+03	5.60E+03	-6.42E+03	5.53E+03	-3.57E+05	3.60E+05
1/20	-4.05E+03	-2.07E+04	1.39E+04	-2.02E+04	1.33E+04	-3.23E+05	3.48E+05
1/15	-6.62E+03	-2.70E+04	1.50E+04	-2.67E+04	1.43E+04	-3.01E+05	3.14E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

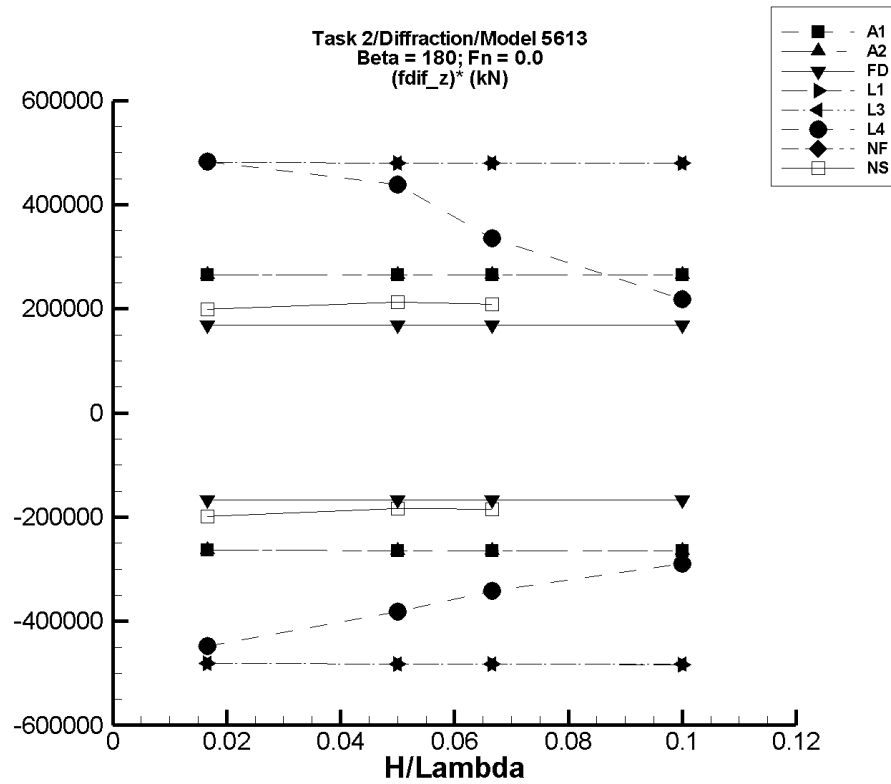


Figure Q-195. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1553. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-11.1	-4.46E+03	4.45E+03	-4.40E+03	4.40E+03	-2.63E+05	2.65E+05
1/20	-33.3	-1.34E+04	1.34E+04	-1.32E+04	1.32E+04	-2.64E+05	2.65E+05
1/15	-44.4	-1.79E+04	1.79E+04	-1.77E+04	1.77E+04	-2.64E+05	2.66E+05
1/10	-66.7	-2.69E+04	2.68E+04	-2.65E+04	2.65E+04	-2.64E+05	2.66E+05

Table Q–1554. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-11.1	-4.46E+03	4.45E+03	-4.40E+03	4.40E+03	-2.63E+05	2.65E+05
1/20	-33.3	-1.34E+04	1.34E+04	-1.32E+04	1.32E+04	-2.64E+05	2.65E+05
1/15	-44.4	-1.79E+04	1.79E+04	-1.77E+04	1.77E+04	-2.64E+05	2.66E+05
1/10	-66.7	-2.69E+04	2.68E+04	-2.65E+04	2.65E+04	-2.64E+05	2.66E+05

Table Q–1555. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-0.985	-2.82E+03	2.82E+03	-2.79E+03	2.82E+03	-1.68E+05	1.69E+05
1/20	-2.95	-8.47E+03	8.47E+03	-8.38E+03	8.47E+03	-1.68E+05	1.69E+05
1/15	-3.94	-1.13E+04	1.13E+04	-1.12E+04	1.13E+04	-1.68E+05	1.69E+05
1/10	-5.91	-1.69E+04	1.69E+04	-1.68E+04	1.69E+04	-1.68E+05	1.69E+05

Table Q–1556. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-320.	-8.37E+03	7.73E+03	-8.34E+03	7.70E+03	-4.81E+05	4.81E+05
1/20	-2.84E+03	-2.70E+04	2.13E+04	-2.69E+04	2.12E+04	-4.82E+05	4.80E+05
1/15	-5.03E+03	-3.73E+04	2.71E+04	-3.72E+04	2.70E+04	-4.82E+05	4.80E+05
1/10	-1.13E+04	-5.98E+04	3.68E+04	-5.97E+04	3.67E+04	-4.83E+05	4.80E+05

Table Q–1557. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-320.	-8.36E+03	7.73E+03	-8.34E+03	7.70E+03	-4.81E+05	4.81E+05
1/20	-2.84E+03	-2.70E+04	2.13E+04	-2.69E+04	2.12E+04	-4.82E+05	4.81E+05
1/15	-5.03E+03	-3.73E+04	2.71E+04	-3.72E+04	2.70E+04	-4.82E+05	4.80E+05
1/10	-1.13E+04	-5.98E+04	3.69E+04	-5.96E+04	3.67E+04	-4.83E+05	4.80E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1558. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-496.	-8.02E+03	7.57E+03	-7.95E+03	7.54E+03	-4.47E+05	4.82E+05
1/20	-4.65E+03	-2.43E+04	1.79E+04	-2.38E+04	1.73E+04	-3.82E+05	4.38E+05
1/15	-8.28E+03	-3.15E+04	1.45E+04	-3.11E+04	1.41E+04	-3.42E+05	3.35E+05
1/10	-1.33E+04	-5.89E+04	1.22E+04	-4.23E+04	8.54E+03	-2.90E+05	2.19E+05

Table Q–1559. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q–1560. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-389.	-3.76E+03	2.99E+03	-3.70E+03	2.93E+03	-1.99E+05	1.99E+05
1/20	-3.61E+03	-1.31E+04	8.26E+03	-1.28E+04	7.02E+03	-1.84E+05	2.12E+05
1/15	-6.00E+03	-1.86E+04	8.58E+03	-1.83E+04	7.89E+03	-1.84E+05	2.08E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

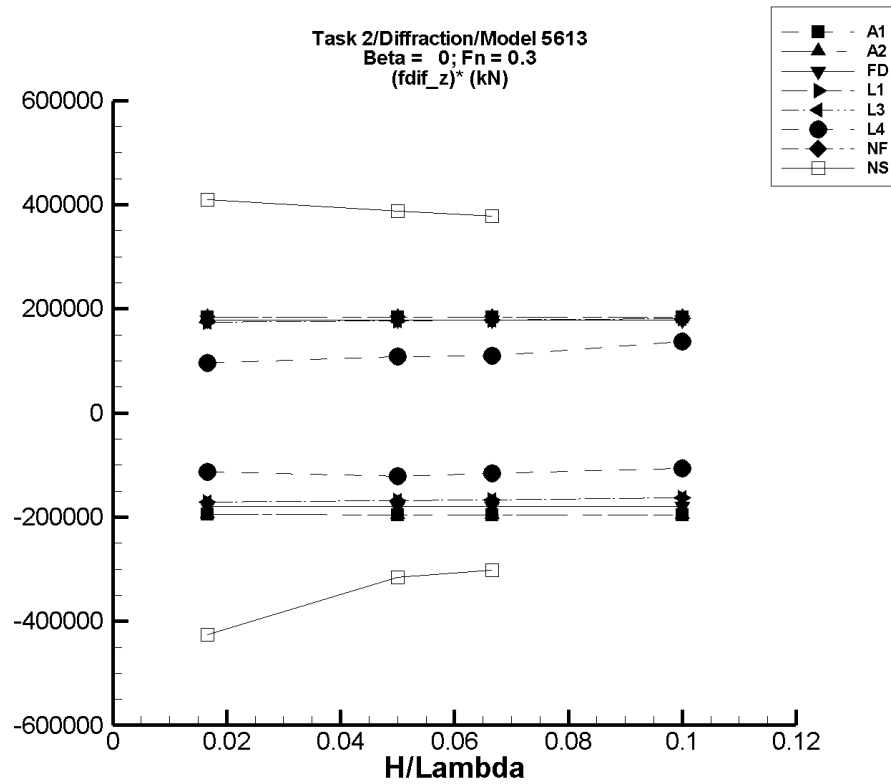


Figure Q-196. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1561. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	9.20	-3.25E+03	3.07E+03	-3.24E+03	3.07E+03	-1.95E+05	1.84E+05
1/20	27.7	-9.77E+03	9.24E+03	-9.75E+03	9.23E+03	-1.96E+05	1.84E+05
1/15	36.9	-1.30E+04	1.23E+04	-1.30E+04	1.23E+04	-1.96E+05	1.84E+05
1/10	55.4	-1.96E+04	1.85E+04	-1.95E+04	1.85E+04	-1.96E+05	1.84E+05

Table Q–1562. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	9.20	-3.25E+03	3.07E+03	-3.24E+03	3.07E+03	-1.95E+05	1.84E+05
1/20	27.7	-9.77E+03	9.24E+03	-9.75E+03	9.23E+03	-1.96E+05	1.84E+05
1/15	36.9	-1.30E+04	1.23E+04	-1.30E+04	1.23E+04	-1.96E+05	1.84E+05
1/10	55.4	-1.96E+04	1.85E+04	-1.95E+04	1.85E+04	-1.96E+05	1.84E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1563. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-8.80E-02	-2.99E+03	2.99E+03	-2.99E+03	2.99E+03	-1.79E+05	1.79E+05
1/20	-0.263	-8.96E+03	8.96E+03	-8.96E+03	8.96E+03	-1.79E+05	1.79E+05
1/15	-0.352	-1.19E+04	1.19E+04	-1.19E+04	1.19E+04	-1.79E+05	1.79E+05
1/10	-0.527	-1.79E+04	1.79E+04	-1.79E+04	1.79E+04	-1.79E+05	1.79E+05

Table Q-1564. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.02E+03	-6.87E+03	-1.13E+03	-6.87E+03	-1.13E+03	-1.71E+05	1.74E+05
1/20	-6.36E+03	-1.48E+04	2.50E+03	-1.47E+04	2.49E+03	-1.68E+05	1.77E+05
1/15	-8.40E+03	-1.95E+04	3.51E+03	-1.95E+04	3.51E+03	-1.66E+05	1.79E+05
1/10	-1.42E+04	-3.06E+04	3.95E+03	-3.06E+04	3.94E+03	-1.64E+05	1.82E+05

Table Q–1565. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.02E+03	-6.87E+03	-1.12E+03	-6.87E+03	-1.13E+03	-1.71E+05	1.74E+05
1/20	-6.36E+03	-1.48E+04	2.50E+03	-1.47E+04	2.49E+03	-1.68E+05	1.77E+05
1/15	-8.40E+03	-1.95E+04	3.51E+03	-1.95E+04	3.51E+03	-1.66E+05	1.79E+05
1/10	-1.42E+04	-3.06E+04	3.95E+03	-3.06E+04	3.94E+03	-1.64E+05	1.82E+05

Table Q–1566. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.18E+03	-6.10E+03	-2.57E+03	-6.07E+03	-2.59E+03	-1.13E+05	9.56E+04
1/20	-5.19E+03	-1.21E+04	379.	-1.13E+04	240.	-1.22E+05	1.09E+05
1/15	-6.24E+03	-1.58E+04	1.60E+03	-1.40E+04	1.06E+03	-1.17E+05	1.10E+05
1/10	-6.61E+03	-2.13E+04	1.57E+04	-1.72E+04	7.06E+03	-1.06E+05	1.37E+05

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1567. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1568. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-114.	-7.19E+03	6.81E+03	-7.21E+03	6.72E+03	-4.26E+05	4.10E+05
1/20	-6.95E+03	-2.28E+04	1.28E+04	-2.28E+04	1.24E+04	-3.16E+05	3.88E+05
1/15	-1.23E+04	-3.28E+04	1.32E+04	-3.24E+04	1.29E+04	-3.02E+05	3.78E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

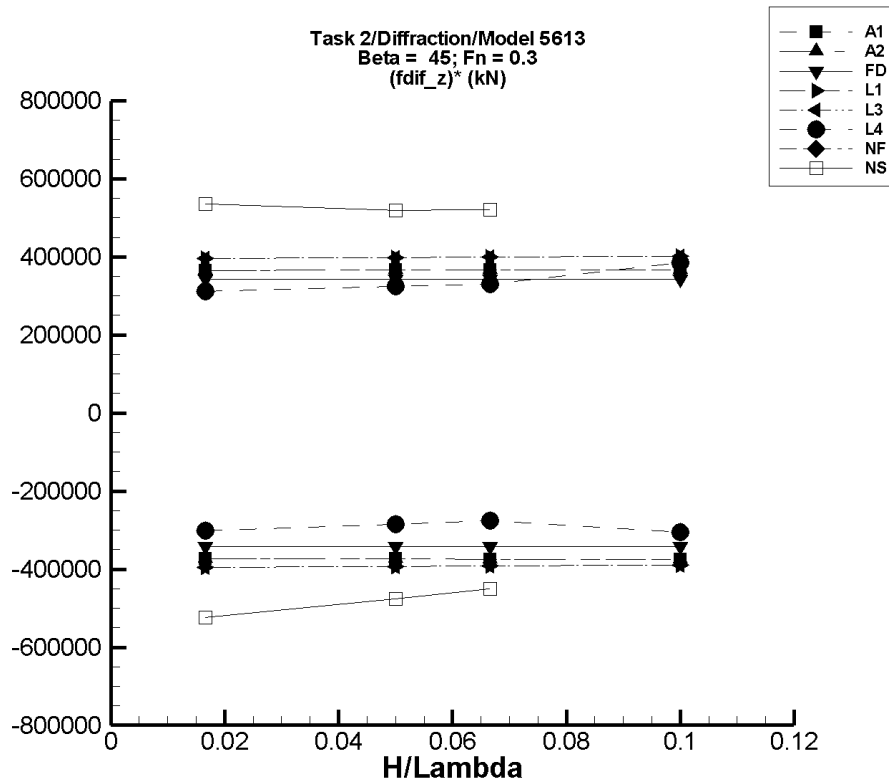


Figure Q-197. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1569. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-6.53	-6.24E+03	6.10E+03	-6.22E+03	6.09E+03	-3.73E+05	3.66E+05
1/20	-19.6	-1.88E+04	1.83E+04	-1.87E+04	1.83E+04	-3.74E+05	3.67E+05
1/15	-26.2	-2.50E+04	2.45E+04	-2.50E+04	2.44E+04	-3.75E+05	3.67E+05
1/10	-39.3	-3.76E+04	3.67E+04	-3.75E+04	3.67E+04	-3.75E+05	3.67E+05

Table Q–1570. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-6.53	-6.24E+03	6.10E+03	-6.22E+03	6.09E+03	-3.73E+05	3.66E+05
1/20	-19.6	-1.88E+04	1.83E+04	-1.87E+04	1.83E+04	-3.74E+05	3.67E+05
1/15	-26.2	-2.50E+04	2.45E+04	-2.50E+04	2.44E+04	-3.75E+05	3.67E+05
1/10	-39.3	-3.76E+04	3.67E+04	-3.75E+04	3.67E+04	-3.75E+05	3.67E+05

Table Q–1571. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-1.40	-5.71E+03	5.71E+03	-5.70E+03	5.70E+03	-3.42E+05	3.42E+05
1/20	-4.19	-1.71E+04	1.71E+04	-1.71E+04	1.71E+04	-3.42E+05	3.42E+05
1/15	-5.59	-2.29E+04	2.29E+04	-2.28E+04	2.28E+04	-3.42E+05	3.42E+05
1/10	-8.38	-3.43E+04	3.43E+04	-3.42E+04	3.42E+04	-3.42E+05	3.42E+05



Table Q-1572. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.25E+03	-1.08E+04	2.36E+03	-1.08E+04	2.35E+03	-3.95E+05	3.96E+05
1/20	-8.41E+03	-2.81E+04	1.15E+04	-2.80E+04	1.15E+04	-3.93E+05	3.98E+05
1/15	-1.20E+04	-3.82E+04	1.46E+04	-3.82E+04	1.46E+04	-3.92E+05	3.99E+05
1/10	-2.24E+04	-6.15E+04	1.77E+04	-6.15E+04	1.77E+04	-3.90E+05	4.01E+05

Table Q-1573. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.25E+03	-1.08E+04	2.36E+03	-1.08E+04	2.35E+03	-3.95E+05	3.96E+05
1/20	-8.41E+03	-2.81E+04	1.15E+04	-2.80E+04	1.15E+04	-3.93E+05	3.98E+05
1/15	-1.20E+04	-3.82E+04	1.46E+04	-3.82E+04	1.46E+04	-3.92E+05	3.99E+05
1/10	-2.24E+04	-6.15E+04	1.77E+04	-6.15E+04	1.77E+04	-3.90E+05	4.01E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1574. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.58E+03	-9.67E+03	650.	-9.61E+03	624.	-3.02E+05	3.12E+05
1/20	-8.44E+03	-2.35E+04	7.85E+03	-2.27E+04	7.77E+03	-2.86E+05	3.24E+05
1/15	-1.14E+04	-3.37E+04	1.08E+04	-2.99E+04	1.06E+04	-2.77E+05	3.30E+05
1/10	-1.37E+04	-5.18E+04	6.10E+04	-4.42E+04	2.48E+04	-3.05E+05	3.85E+05

Table Q–1575. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1576. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-482.	-9.28E+03	8.54E+03	-9.20E+03	8.44E+03	-5.23E+05	5.36E+05
1/20	-5.06E+03	-2.93E+04	2.11E+04	-2.88E+04	2.09E+04	-4.76E+05	5.19E+05
1/15	-8.85E+03	-3.97E+04	2.65E+04	-3.88E+04	2.58E+04	-4.50E+05	5.20E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

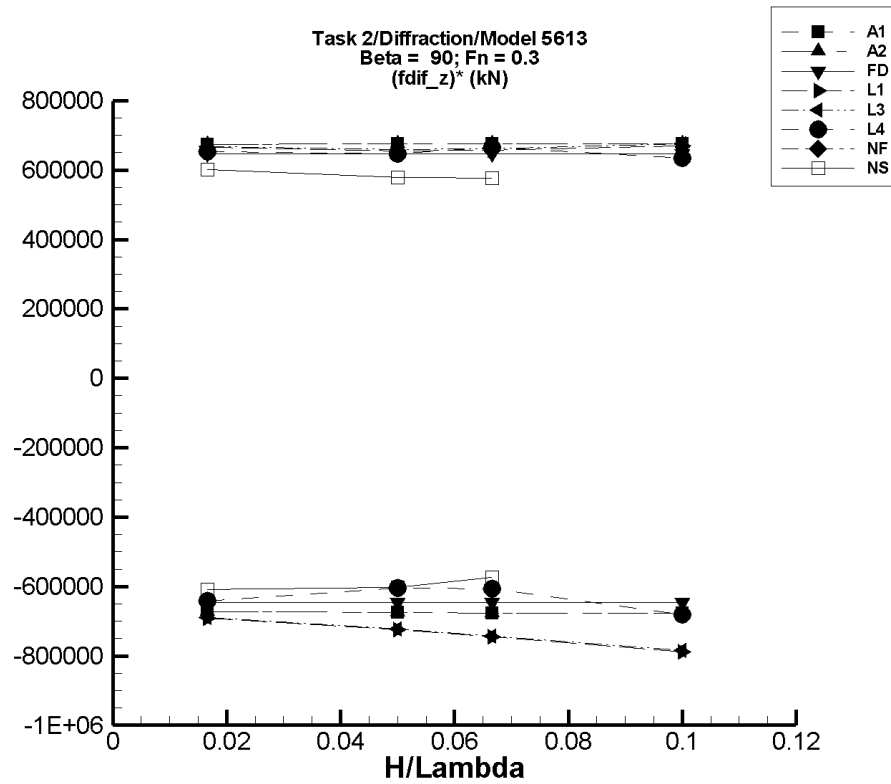


Figure Q-198. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1577. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$(F_z^{\text{dif}})^*$ Max. (kN)
1/60	122.	-1.12E+04	1.15E+04	-1.11E+04	1.14E+04	-6.73E+05	6.74E+05
1/20	368.	-3.37E+04	3.45E+04	-3.34E+04	3.42E+04	-6.75E+05	6.76E+05
1/15	491.	-4.50E+04	4.61E+04	-4.46E+04	4.56E+04	-6.76E+05	6.77E+05
1/10	736.	-6.75E+04	6.91E+04	-6.69E+04	6.84E+04	-6.76E+05	6.77E+05

Table Q–1578. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$(F_z^{\text{dif}})^*$ Max. (kN)
1/60	122.	-1.12E+04	1.15E+04	-1.11E+04	1.14E+04	-6.73E+05	6.74E+05
1/20	368.	-3.37E+04	3.45E+04	-3.34E+04	3.42E+04	-6.75E+05	6.76E+05
1/15	491.	-4.50E+04	4.61E+04	-4.46E+04	4.56E+04	-6.76E+05	6.77E+05
1/10	736.	-6.75E+04	6.91E+04	-6.69E+04	6.84E+04	-6.76E+05	6.77E+05

Table Q–1579. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$F_z^{\text{dif}}$ Max. (kN)	Filtered Min. (kN)	$(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-5.01	-1.09E+04	1.09E+04	-1.08E+04	1.08E+04	-6.45E+05	6.46E+05
1/20	-15.0	-3.26E+04	3.26E+04	-3.23E+04	3.23E+04	-6.45E+05	6.46E+05
1/15	-20.1	-4.35E+04	4.35E+04	-4.30E+04	4.30E+04	-6.45E+05	6.46E+05
1/10	-30.1	-6.52E+04	6.52E+04	-6.45E+04	6.46E+04	-6.45E+05	6.46E+05

Table Q–1580. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.42E+03	-1.60E+04	6.71E+03	-1.59E+04	6.68E+03	-6.91E+05	6.66E+05
1/20	-9.95E+03	-4.64E+04	2.30E+04	-4.62E+04	2.28E+04	-7.25E+05	6.56E+05
1/15	-1.48E+04	-6.47E+04	2.92E+04	-6.44E+04	2.90E+04	-7.44E+05	6.57E+05
1/10	-2.86E+04	-1.08E+05	3.87E+04	-1.08E+05	3.84E+04	-7.89E+05	6.70E+05

Table Q–1581. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.42E+03	-1.60E+04	6.73E+03	-1.59E+04	6.69E+03	-6.90E+05	6.67E+05
1/20	-9.95E+03	-4.63E+04	2.31E+04	-4.61E+04	2.30E+04	-7.23E+05	6.59E+05
1/15	-1.48E+04	-6.45E+04	2.94E+04	-6.43E+04	2.93E+04	-7.42E+05	6.61E+05
1/10	-2.86E+04	-1.07E+05	3.92E+04	-1.07E+05	3.89E+04	-7.85E+05	6.75E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1582. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.99E+03	-1.57E+04	6.10E+03	-1.57E+04	5.88E+03	-6.41E+05	6.52E+05
1/20	-1.18E+04	-4.26E+04	2.12E+04	-4.20E+04	2.06E+04	-6.04E+05	6.47E+05
1/15	-1.66E+04	-5.90E+04	2.92E+04	-5.71E+04	2.78E+04	-6.07E+05	6.66E+05
1/10	-2.32E+04	-1.13E+05	4.40E+04	-9.12E+04	4.02E+04	-6.80E+05	6.34E+05

Table Q–1583. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1584. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-790.	-1.11E+04	9.38E+03	-1.09E+04	9.23E+03	-6.08E+05	6.01E+05
1/20	-6.53E+03	-3.77E+04	2.48E+04	-3.67E+04	2.24E+04	-6.03E+05	5.78E+05
1/15	-9.52E+03	-4.89E+04	3.74E+04	-4.78E+04	2.90E+04	-5.75E+05	5.78E+05
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

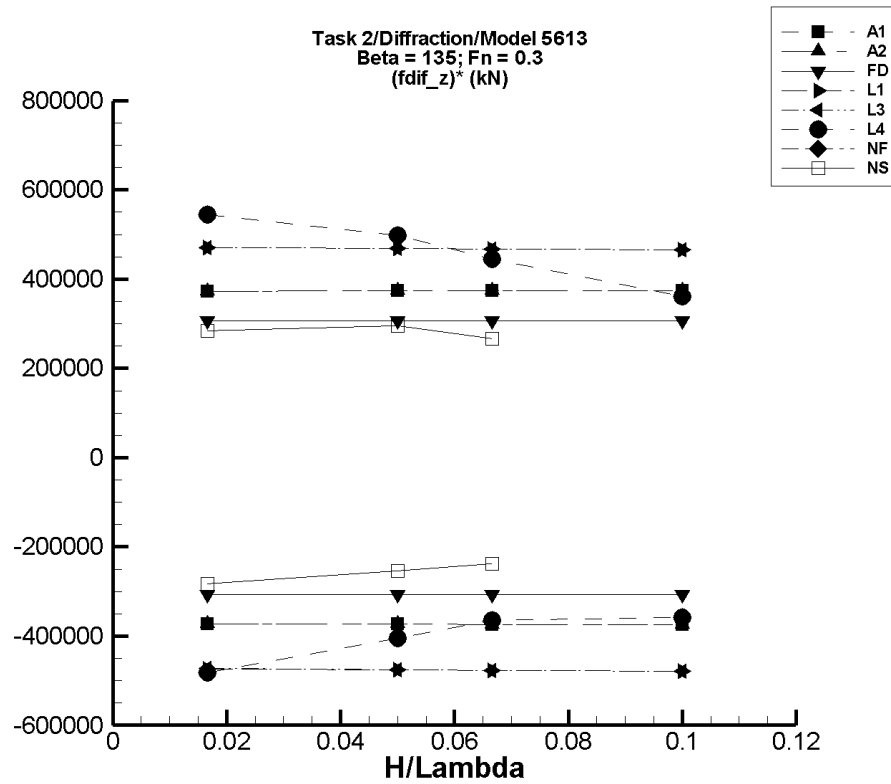


Figure Q-199. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1585. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	17.8	-6.33E+03	6.38E+03	-6.19E+03	6.23E+03	-3.72E+05	3.73E+05
1/20	53.6	-1.90E+04	1.92E+04	-1.86E+04	1.87E+04	-3.73E+05	3.74E+05
1/15	71.5	-2.54E+04	2.56E+04	-2.48E+04	2.50E+04	-3.74E+05	3.74E+05
1/10	107.	-3.81E+04	3.84E+04	-3.73E+04	3.75E+04	-3.74E+05	3.74E+05

Table Q–1586. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	17.8	-6.33E+03	6.38E+03	-6.19E+03	6.23E+03	-3.72E+05	3.73E+05
1/20	53.6	-1.90E+04	1.92E+04	-1.86E+04	1.87E+04	-3.73E+05	3.74E+05
1/15	71.5	-2.54E+04	2.56E+04	-2.48E+04	2.50E+04	-3.74E+05	3.74E+05
1/10	107.	-3.81E+04	3.84E+04	-3.73E+04	3.75E+04	-3.74E+05	3.74E+05

Table Q–1587. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	0.142	-5.24E+03	5.24E+03	-5.12E+03	5.12E+03	-3.07E+05	3.07E+05
1/20	0.426	-1.57E+04	1.57E+04	-1.54E+04	1.53E+04	-3.07E+05	3.07E+05
1/15	0.568	-2.10E+04	2.10E+04	-2.05E+04	2.05E+04	-3.07E+05	3.07E+05
1/10	0.852	-3.15E+04	3.15E+04	-3.07E+04	3.07E+04	-3.07E+05	3.07E+05

Table Q–1588. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-4.24E+03	-1.22E+04	3.68E+03	-1.21E+04	3.61E+03	-4.73E+05	4.71E+05
1/20	-8.32E+03	-3.23E+04	1.53E+04	-3.21E+04	1.51E+04	-4.75E+05	4.69E+05
1/15	-1.19E+04	-4.39E+04	1.96E+04	-4.36E+04	1.93E+04	-4.77E+05	4.68E+05
1/10	-2.21E+04	-7.04E+04	2.49E+04	-6.99E+04	2.45E+04	-4.79E+05	4.65E+05

Table Q–1589. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>F_z^{\text{dif}}</math></b>		<b>Filtered <math>(F_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)	<b>Min.</b> (kN)	<b>Max.</b> (kN)
1/60	-4.24E+03	-1.22E+04	3.67E+03	-1.21E+04	3.60E+03	-4.73E+05	4.71E+05
1/20	-8.32E+03	-3.23E+04	1.53E+04	-3.21E+04	1.51E+04	-4.75E+05	4.69E+05
1/15	-1.19E+04	-4.39E+04	1.96E+04	-4.36E+04	1.93E+04	-4.76E+05	4.68E+05
1/10	-2.21E+04	-7.04E+04	2.49E+04	-6.99E+04	2.45E+04	-4.79E+05	4.65E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1590. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-5.15E+03	-1.33E+04	4.34E+03	-1.32E+04	3.92E+03	-4.82E+05	5.44E+05
1/20	-1.27E+04	-3.31E+04	1.47E+04	-3.29E+04	1.23E+04	-4.05E+05	4.98E+05
1/15	-1.80E+04	-4.28E+04	2.07E+04	-4.23E+04	1.16E+04	-3.65E+05	4.44E+05
1/10	-2.59E+04	-8.34E+04	1.33E+04	-6.17E+04	1.02E+04	-3.58E+05	3.61E+05

Table Q–1591. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1592. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-551.	-5.37E+03	4.32E+03	-5.27E+03	4.19E+03	-2.83E+05	2.84E+05
1/20	-5.92E+03	-1.97E+04	9.71E+03	-1.86E+04	8.87E+03	-2.54E+05	2.96E+05
1/15	-8.26E+03	-2.48E+04	1.02E+04	-2.41E+04	9.47E+03	-2.37E+05	2.66E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

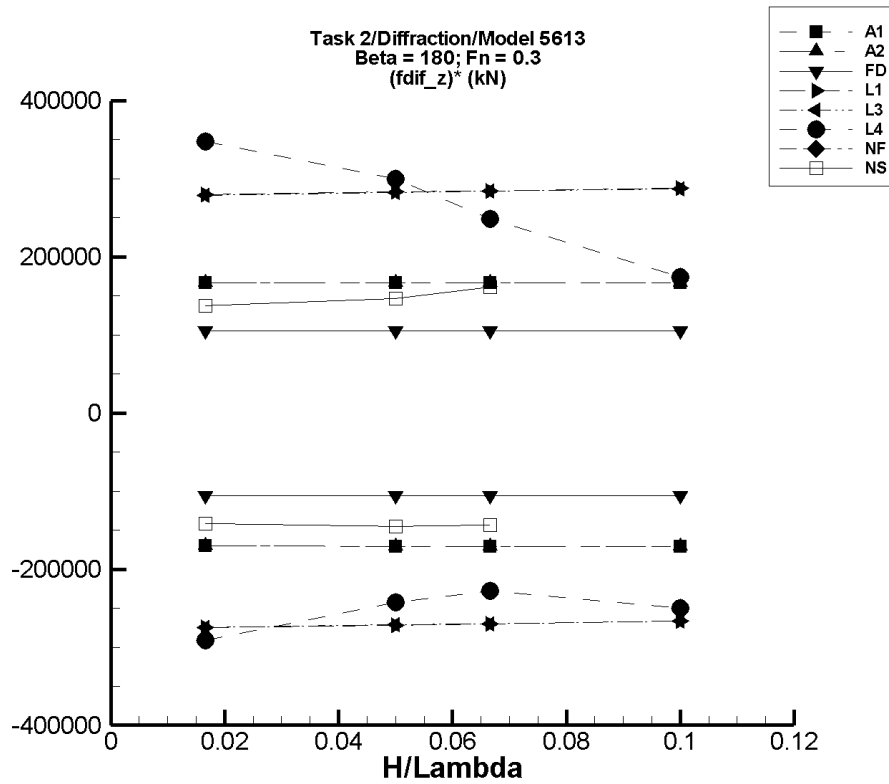


Figure Q-200. Minimum and maximum of filtered  $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1593. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-30.9	-2.96E+03	2.83E+03	-2.87E+03	2.74E+03	-1.71E+05	1.66E+05
1/20	-92.9	-8.92E+03	8.51E+03	-8.64E+03	8.25E+03	-1.71E+05	1.67E+05
1/15	-124.	-1.19E+04	1.14E+04	-1.15E+04	1.10E+04	-1.71E+05	1.67E+05
1/10	-186.	-1.79E+04	1.70E+04	-1.73E+04	1.65E+04	-1.71E+05	1.67E+05

Table Q–1594. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-30.9	-2.96E+03	2.83E+03	-2.87E+03	2.74E+03	-1.71E+05	1.66E+05
1/20	-92.9	-8.92E+03	8.51E+03	-8.64E+03	8.25E+03	-1.71E+05	1.67E+05
1/15	-124.	-1.19E+04	1.14E+04	-1.15E+04	1.10E+04	-1.71E+05	1.67E+05
1/10	-186.	-1.79E+04	1.70E+04	-1.73E+04	1.65E+04	-1.71E+05	1.67E+05

Table Q–1595. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ <b>Mean</b> (kN)	<b>Unfiltered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$F_z^{\text{dif}}$ <b>Max.</b> (kN)	<b>Filtered</b> <b>Min.</b> (kN)	$(F_z^{\text{dif}})^*$ <b>Max.</b> (kN)
1/60	-2.11	-1.82E+03	1.82E+03	-1.76E+03	1.76E+03	-1.06E+05	1.06E+05
1/20	-6.34	-5.46E+03	5.46E+03	-5.29E+03	5.27E+03	-1.06E+05	1.06E+05
1/15	-8.45	-7.28E+03	7.27E+03	-7.05E+03	7.03E+03	-1.06E+05	1.06E+05
1/10	-12.7	-1.09E+04	1.09E+04	-1.06E+04	1.05E+04	-1.06E+05	1.06E+05

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1596. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.10E+03	-8.73E+03	614.	-8.68E+03	560.	-2.75E+05	2.79E+05
1/20	-6.97E+03	-2.07E+04	7.34E+03	-2.06E+04	7.17E+03	-2.72E+05	2.83E+05
1/15	-9.47E+03	-2.77E+04	9.73E+03	-2.75E+04	9.50E+03	-2.70E+05	2.85E+05
1/10	-1.66E+04	-4.36E+04	1.25E+04	-4.33E+04	1.22E+04	-2.67E+05	2.88E+05

Table Q–1597. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.10E+03	-8.73E+03	605.	-8.68E+03	551.	-2.75E+05	2.79E+05
1/20	-6.97E+03	-2.07E+04	7.32E+03	-2.05E+04	7.15E+03	-2.72E+05	2.82E+05
1/15	-9.47E+03	-2.77E+04	9.69E+03	-2.75E+04	9.46E+03	-2.70E+05	2.84E+05
1/10	-1.66E+04	-4.36E+04	1.25E+04	-4.33E+04	1.21E+04	-2.67E+05	2.87E+05



TASK 2/DIFFRACTION/MODEL 5613

Table Q–1598. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-5.03E+03	-1.00E+04	1.34E+03	-9.88E+03	764.	-2.91E+05	3.48E+05
1/20	-1.21E+04	-2.55E+04	4.94E+03	-2.42E+04	2.88E+03	-2.42E+05	2.99E+05
1/15	-1.68E+04	-3.35E+04	1.77E+03	-3.20E+04	-195.	-2.28E+05	2.48E+05
1/10	-2.45E+04	-6.43E+04	-2.97E+03	-4.95E+04	-7.07E+03	-2.50E+05	1.74E+05

Table Q–1599. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1600. Minimum and Maximum of Variables  $F_z^{\text{dif}}$  and  $(F_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered $F_z^{\text{dif}}$		Filtered $F_z^{\text{dif}}$		Filtered $(F_z^{\text{dif}})^*$	
		Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-497.	-2.95E+03	1.87E+03	-2.85E+03	1.79E+03	-1.41E+05	1.37E+05
1/20	-4.93E+03	-1.27E+04	3.00E+03	-1.22E+04	2.41E+03	-1.46E+05	1.47E+05
1/15	-6.37E+03	-1.66E+04	4.93E+03	-1.59E+04	4.36E+03	-1.43E+05	1.61E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

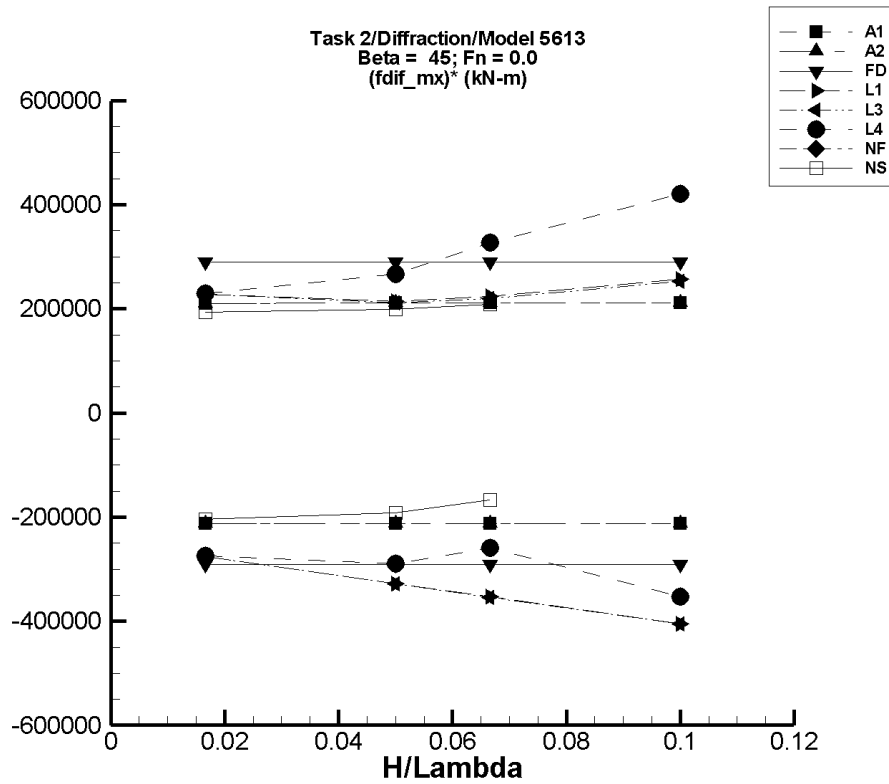


Figure Q-201. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1601. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	0.500	-3.59E+03	3.58E+03	-3.53E+03	3.51E+03	-2.12E+05	2.10E+05
1/20	1.50	-1.08E+04	1.08E+04	-1.06E+04	1.06E+04	-2.13E+05	2.11E+05
1/15	2.01	-1.44E+04	1.44E+04	-1.42E+04	1.41E+04	-2.13E+05	2.11E+05
1/10	3.01	-2.16E+04	2.16E+04	-2.13E+04	2.11E+04	-2.13E+05	2.11E+05

Table Q-1602. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	0.500	-3.59E+03	3.58E+03	-3.53E+03	3.51E+03	-2.12E+05	2.10E+05
1/20	1.50	-1.08E+04	1.08E+04	-1.06E+04	1.06E+04	-2.13E+05	2.11E+05
1/15	2.01	-1.44E+04	1.44E+04	-1.42E+04	1.41E+04	-2.13E+05	2.11E+05
1/10	3.01	-2.16E+04	2.16E+04	-2.13E+04	2.11E+04	-2.13E+05	2.11E+05

Table Q-1603. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	1.88	-4.89E+03	4.89E+03	-4.84E+03	4.84E+03	-2.90E+05	2.90E+05
1/20	5.66	-1.47E+04	1.47E+04	-1.45E+04	1.45E+04	-2.90E+05	2.90E+05
1/15	7.54	-1.95E+04	1.96E+04	-1.94E+04	1.94E+04	-2.90E+05	2.90E+05
1/10	11.3	-2.93E+04	2.93E+04	-2.90E+04	2.90E+04	-2.90E+05	2.90E+05

Table Q-1604. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	539.	-4.06E+03	4.36E+03	-4.06E+03	4.35E+03	-2.76E+05	2.28E+05
1/20	4.84E+03	-1.15E+04	1.56E+04	-1.15E+04	1.55E+04	-3.28E+05	2.14E+05
1/15	8.61E+03	-1.49E+04	2.36E+04	-1.50E+04	2.35E+04	-3.53E+05	2.24E+05
1/10	1.94E+04	-2.11E+04	4.53E+04	-2.12E+04	4.51E+04	-4.05E+05	2.57E+05

Table Q-1605. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	539.	-4.06E+03	4.34E+03	-4.07E+03	4.33E+03	-2.76E+05	2.28E+05
1/20	4.84E+03	-1.15E+04	1.54E+04	-1.16E+04	1.54E+04	-3.28E+05	2.11E+05
1/15	8.61E+03	-1.49E+04	2.34E+04	-1.50E+04	2.33E+04	-3.54E+05	2.20E+05
1/10	1.94E+04	-2.12E+04	4.49E+04	-2.12E+04	4.47E+04	-4.06E+05	2.53E+05

Table Q–1606. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	359.	-4.63E+03	4.50E+03	-4.21E+03	4.19E+03	-2.74E+05	2.30E+05
1/20	2.10E+03	-1.37E+04	1.70E+04	-1.24E+04	1.54E+04	-2.89E+05	2.67E+05
1/15	-239.	-2.15E+04	2.49E+04	-1.75E+04	2.16E+04	-2.59E+05	3.28E+05
1/10	-9.48E+03	-6.33E+04	3.83E+04	-4.48E+04	3.27E+04	-3.53E+05	4.21E+05

Table Q–1607. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1608. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	50.4	-3.55E+03	3.53E+03	-3.36E+03	3.28E+03	-2.04E+05	1.94E+05
1/20	-355.	-1.26E+04	1.02E+04	-9.92E+03	9.59E+03	-1.91E+05	1.99E+05
1/15	-1.89E+03	-3.76E+04	1.28E+04	-1.30E+04	1.21E+04	-1.67E+05	2.09E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

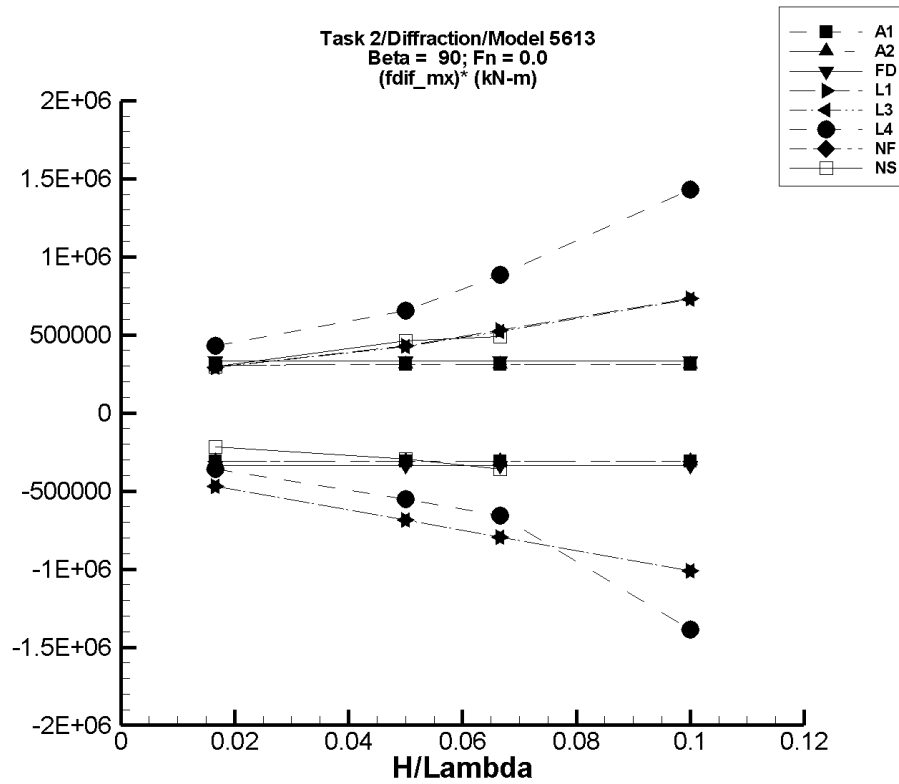


Figure Q-202. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1609. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	4.30	-5.18E+03	5.18E+03	-5.12E+03	5.13E+03	-3.07E+05	3.07E+05
1/20	12.9	-1.56E+04	1.56E+04	-1.54E+04	1.54E+04	-3.08E+05	3.08E+05
1/15	17.3	-2.08E+04	2.08E+04	-2.06E+04	2.06E+04	-3.09E+05	3.09E+05
1/10	25.9	-3.12E+04	3.12E+04	-3.08E+04	3.09E+04	-3.09E+05	3.09E+05

Table Q-1610. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	4.30	-5.18E+03	5.18E+03	-5.12E+03	5.13E+03	-3.07E+05	3.07E+05
1/20	12.9	-1.56E+04	1.56E+04	-1.54E+04	1.54E+04	-3.08E+05	3.08E+05
1/15	17.3	-2.08E+04	2.08E+04	-2.06E+04	2.06E+04	-3.09E+05	3.09E+05
1/10	25.9	-3.12E+04	3.12E+04	-3.08E+04	3.09E+04	-3.09E+05	3.09E+05

Table Q-1611. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>M_x^{\text{dif}}</math></b> <b>Min. Max.</b> (kN-m) (kN-m)		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b> <b>Min. Max.</b> (kN-m) (kN-m)	
1/60	1.18	-5.64E+03	5.64E+03	-5.58E+03	5.58E+03	-3.35E+05	3.35E+05
1/20	3.55	-1.69E+04	1.69E+04	-1.67E+04	1.67E+04	-3.35E+05	3.35E+05
1/15	4.74	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04	-3.35E+05	3.35E+05
1/10	7.10	-3.38E+04	3.38E+04	-3.35E+04	3.35E+04	-3.35E+05	3.35E+05

Table Q-1612. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	1.39E+03	-6.47E+03	6.31E+03	-6.42E+03	6.29E+03	-4.69E+05	2.94E+05
1/20	1.25E+04	-2.21E+04	3.43E+04	-2.18E+04	3.40E+04	-6.85E+05	4.31E+05
1/15	2.22E+04	-3.12E+04	5.79E+04	-3.07E+04	5.74E+04	-7.94E+05	5.29E+05
1/10	5.00E+04	-5.22E+04	1.24E+05	-5.12E+04	1.23E+05	-1.01E+06	7.34E+05

Table Q-1613. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	1.39E+03	-6.48E+03	6.24E+03	-6.43E+03	6.22E+03	-4.69E+05	2.90E+05
1/20	1.25E+04	-2.21E+04	3.40E+04	-2.18E+04	3.37E+04	-6.86E+05	4.25E+05
1/15	2.22E+04	-3.13E+04	5.74E+04	-3.08E+04	5.70E+04	-7.94E+05	5.22E+05
1/10	5.00E+04	-5.22E+04	1.24E+05	-5.12E+04	1.23E+05	-1.01E+06	7.28E+05

Table Q–1614. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	713.	-6.19E+03	8.89E+03	-5.31E+03	7.87E+03	-3.62E+05	4.29E+05
1/20	4.48E+03	-2.58E+04	3.91E+04	-2.31E+04	3.73E+04	-5.52E+05	6.56E+05
1/15	-531.	-4.95E+04	6.61E+04	-4.45E+04	5.85E+04	-6.59E+05	8.85E+05
1/10	-2.36E+04	-1.81E+05	1.66E+05	-1.62E+05	1.19E+05	-1.39E+06	1.43E+06

Table Q–1615. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1616. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	38.5	-3.69E+03	5.31E+03	-3.57E+03	5.02E+03	-2.17E+05	2.99E+05
1/20	-613.	-2.24E+04	2.56E+04	-1.53E+04	2.25E+04	-2.94E+05	4.63E+05
1/15	-2.39E+03	-3.10E+04	3.55E+04	-2.64E+04	3.02E+04	-3.60E+05	4.89E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

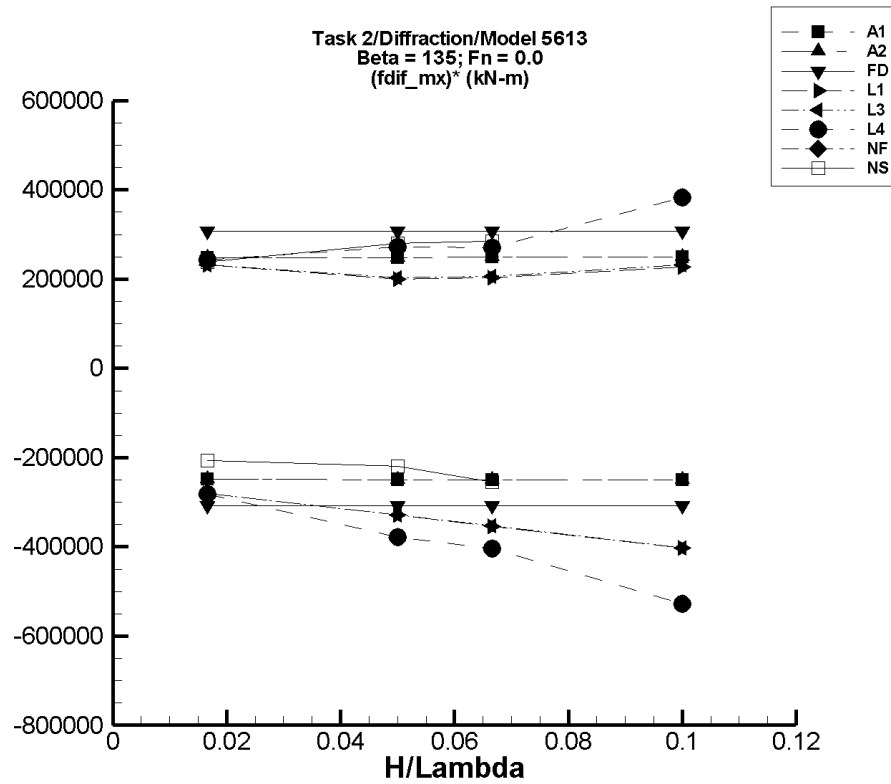


Figure Q-203. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1617. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	6.02	-4.18E+03	4.18E+03	-4.14E+03	4.14E+03	-2.49E+05	2.48E+05
1/20	18.1	-1.26E+04	1.26E+04	-1.25E+04	1.24E+04	-2.50E+05	2.49E+05
1/15	24.2	-1.68E+04	1.68E+04	-1.66E+04	1.66E+04	-2.50E+05	2.49E+05
1/10	36.2	-2.52E+04	2.52E+04	-2.50E+04	2.49E+04	-2.50E+05	2.49E+05

Table Q-1618. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	6.02	-4.18E+03	4.18E+03	-4.14E+03	4.14E+03	-2.49E+05	2.48E+05
1/20	18.1	-1.26E+04	1.26E+04	-1.25E+04	1.24E+04	-2.50E+05	2.49E+05
1/15	24.2	-1.68E+04	1.68E+04	-1.66E+04	1.66E+04	-2.50E+05	2.49E+05
1/10	36.2	-2.52E+04	2.52E+04	-2.50E+04	2.49E+04	-2.50E+05	2.49E+05

Table Q-1619. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	0.278	-5.19E+03	5.19E+03	-5.14E+03	5.14E+03	-3.08E+05	3.08E+05
1/20	0.837	-1.56E+04	1.56E+04	-1.54E+04	1.54E+04	-3.08E+05	3.08E+05
1/15	1.11	-2.08E+04	2.08E+04	-2.06E+04	2.05E+04	-3.08E+05	3.08E+05
1/10	1.67	-3.11E+04	3.11E+04	-3.08E+04	3.08E+04	-3.08E+05	3.08E+05

Table Q-1620. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	833.	-3.86E+03	4.71E+03	-3.84E+03	4.70E+03	-2.80E+05	2.32E+05
1/20	7.48E+03	-9.07E+03	1.75E+04	-8.98E+03	1.75E+04	-3.29E+05	2.00E+05
1/15	1.33E+04	-1.04E+04	2.69E+04	-1.03E+04	2.68E+04	-3.54E+05	2.03E+05
1/10	2.99E+04	-1.07E+04	5.29E+04	-1.04E+04	5.27E+04	-4.03E+05	2.28E+05

Table Q-1621. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	833.	-3.85E+03	4.72E+03	-3.84E+03	4.71E+03	-2.80E+05	2.32E+05
1/20	7.48E+03	-9.05E+03	1.77E+04	-8.96E+03	1.76E+04	-3.29E+05	2.03E+05
1/15	1.33E+04	-1.04E+04	2.71E+04	-1.03E+04	2.70E+04	-3.53E+05	2.06E+05
1/10	2.99E+04	-1.06E+04	5.33E+04	-1.03E+04	5.31E+04	-4.02E+05	2.32E+05

Table Q-1622. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	685.	-4.32E+03	5.35E+03	-4.01E+03	4.74E+03	-2.82E+05	2.43E+05
1/20	3.60E+03	-1.73E+04	1.98E+04	-1.53E+04	1.72E+04	-3.79E+05	2.72E+05
1/15	1.81E+03	-2.76E+04	2.14E+04	-2.51E+04	1.98E+04	-4.04E+05	2.70E+05
1/10	-1.08E+04	-8.32E+04	1.14E+05	-6.36E+04	2.75E+04	-5.28E+05	3.83E+05

Table Q-1623. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-1624. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	36.2	-3.48E+03	4.13E+03	-3.41E+03	4.00E+03	-2.07E+05	2.38E+05
1/20	-438.	-1.76E+04	1.54E+04	-1.14E+04	1.36E+04	-2.19E+05	2.81E+05
1/15	-1.98E+03	-3.16E+04	1.76E+04	-1.89E+04	1.70E+04	-2.54E+05	2.85E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

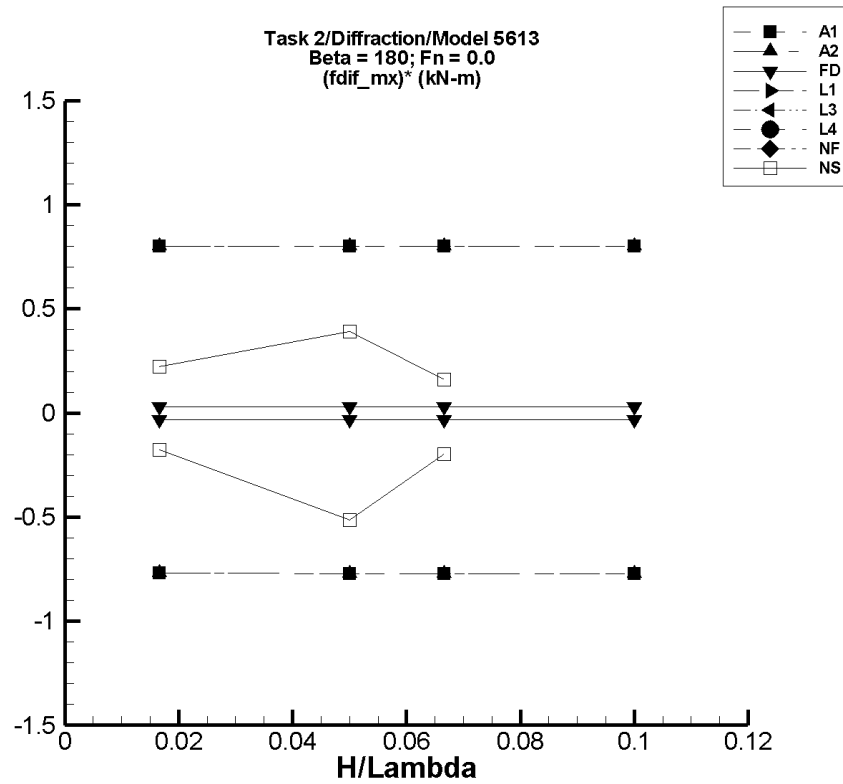


Figure Q-204. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1625. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	5.75E-06	-1.30E-02	1.34E-02	-1.28E-02	1.33E-02	-0.769	0.799
1/20	1.73E-05	-3.91E-02	4.04E-02	-3.85E-02	4.01E-02	-0.771	0.801
1/15	2.31E-05	-5.22E-02	5.39E-02	-5.14E-02	5.35E-02	-0.772	0.802
1/10	3.46E-05	-7.83E-02	8.09E-02	-7.71E-02	8.03E-02	-0.772	0.802

Table Q-1626. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	5.75E-06	-1.30E-02	1.34E-02	-1.28E-02	1.33E-02	-0.769	0.799
1/20	1.73E-05	-3.91E-02	4.04E-02	-3.85E-02	4.01E-02	-0.771	0.801
1/15	2.31E-05	-5.22E-02	5.39E-02	-5.14E-02	5.35E-02	-0.772	0.802
1/10	3.46E-05	-7.83E-02	8.09E-02	-7.71E-02	8.03E-02	-0.772	0.802

Table Q-1627. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-6.86E-08	-5.25E-04	5.25E-04	-5.20E-04	5.20E-04	-3.12E-02	3.12E-02
1/20	-2.06E-07	-1.58E-03	1.58E-03	-1.56E-03	1.56E-03	-3.12E-02	3.12E-02
1/15	-2.75E-07	-2.10E-03	2.10E-03	-2.08E-03	2.08E-03	-3.12E-02	3.12E-02
1/10	-4.12E-07	-3.15E-03	3.15E-03	-3.12E-03	3.12E-03	-3.12E-02	3.12E-02

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1628. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1629. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1630. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1631. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1632. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.18E-04	-1.17E-02	9.52E-03	-2.81E-03	3.81E-03	-0.176	0.222
1/20	7.80E-05	-3.92E-02	6.94E-02	-2.57E-02	1.96E-02	-0.515	0.390
1/15	2.26E-04	-0.272	0.292	-1.29E-02	1.08E-02	-0.197	0.159
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

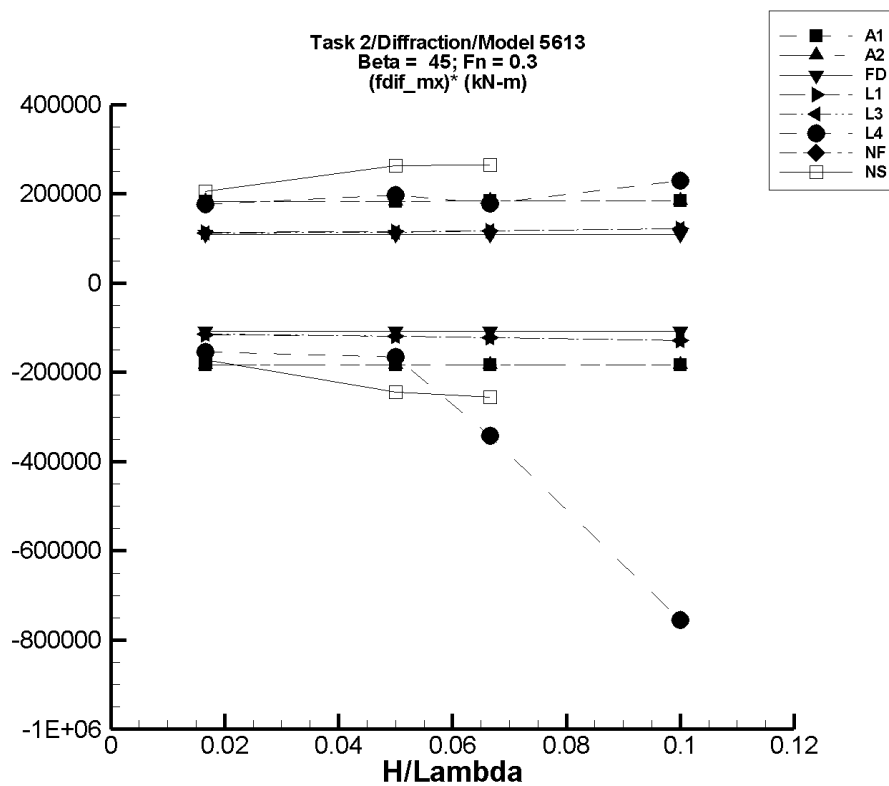


Figure Q-205. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1633. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-1.93	-3.07E+03	3.06E+03	-3.06E+03	3.05E+03	-1.83E+05	1.83E+05
1/20	-5.81	-9.22E+03	9.21E+03	-9.19E+03	9.18E+03	-1.84E+05	1.84E+05
1/15	-7.76	-1.23E+04	1.23E+04	-1.23E+04	1.23E+04	-1.84E+05	1.84E+05
1/10	-11.6	-1.85E+04	1.84E+04	-1.84E+04	1.84E+04	-1.84E+05	1.84E+05

Table Q–1634. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-1.93	-3.07E+03	3.06E+03	-3.06E+03	3.05E+03	-1.83E+05	1.83E+05
1/20	-5.81	-9.22E+03	9.21E+03	-9.19E+03	9.18E+03	-1.84E+05	1.84E+05
1/15	-7.76	-1.23E+04	1.23E+04	-1.23E+04	1.23E+04	-1.84E+05	1.84E+05
1/10	-11.6	-1.85E+04	1.84E+04	-1.84E+04	1.84E+04	-1.84E+05	1.84E+05

Table Q-1635. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-1.72E-02	-1.81E+03	1.81E+03	-1.81E+03	1.81E+03	-1.08E+05	1.08E+05
1/20	-5.21E-02	-5.43E+03	5.43E+03	-5.42E+03	5.42E+03	-1.08E+05	1.08E+05
1/15	-6.89E-02	-7.25E+03	7.25E+03	-7.23E+03	7.23E+03	-1.08E+05	1.08E+05
1/10	-0.104	-1.09E+04	1.09E+04	-1.08E+04	1.08E+04	-1.08E+05	1.08E+05

Table Q-1636. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	723.	-1.20E+03	2.61E+03	-1.19E+03	2.61E+03	-1.15E+05	1.13E+05
1/20	6.51E+03	529.	1.23E+04	535.	1.22E+04	-1.19E+05	1.15E+05
1/15	1.16E+04	3.40E+03	1.93E+04	3.41E+03	1.93E+04	-1.22E+05	1.17E+05
1/10	2.60E+04	1.31E+04	3.82E+04	1.31E+04	3.82E+04	-1.29E+05	1.22E+05



Table Q-1637. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	723.	-1.19E+03	2.61E+03	-1.18E+03	2.61E+03	-1.14E+05	1.13E+05
1/20	6.51E+03	566.	1.22E+04	572.	1.22E+04	-1.19E+05	1.15E+05
1/15	1.16E+04	3.45E+03	1.93E+04	3.46E+03	1.93E+04	-1.22E+05	1.17E+05
1/10	2.60E+04	1.32E+04	3.82E+04	1.32E+04	3.82E+04	-1.28E+05	1.22E+05

Table Q-1638. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	1.01E+03	-1.61E+03	5.98E+03	-1.56E+03	3.95E+03	-1.54E+05	1.77E+05
1/20	6.36E+03	-2.77E+03	2.31E+04	-1.91E+03	1.62E+04	-1.65E+05	1.97E+05
1/15	6.20E+03	-2.30E+04	2.77E+04	-1.67E+04	1.81E+04	-3.43E+05	1.79E+05
1/10	-4.65E+03	-2.30E+05	6.10E+04	-8.01E+04	1.83E+04	-7.54E+05	2.30E+05

Table Q–1639. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1640. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.70	-2.92E+03	3.45E+03	-2.87E+03	3.43E+03	-1.72E+05	2.06E+05
1/20	-1.39E+03	-1.57E+04	1.22E+04	-1.36E+04	1.18E+04	-2.45E+05	2.64E+05
1/15	-2.69E+03	-2.25E+04	1.64E+04	-1.97E+04	1.50E+04	-2.55E+05	2.65E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

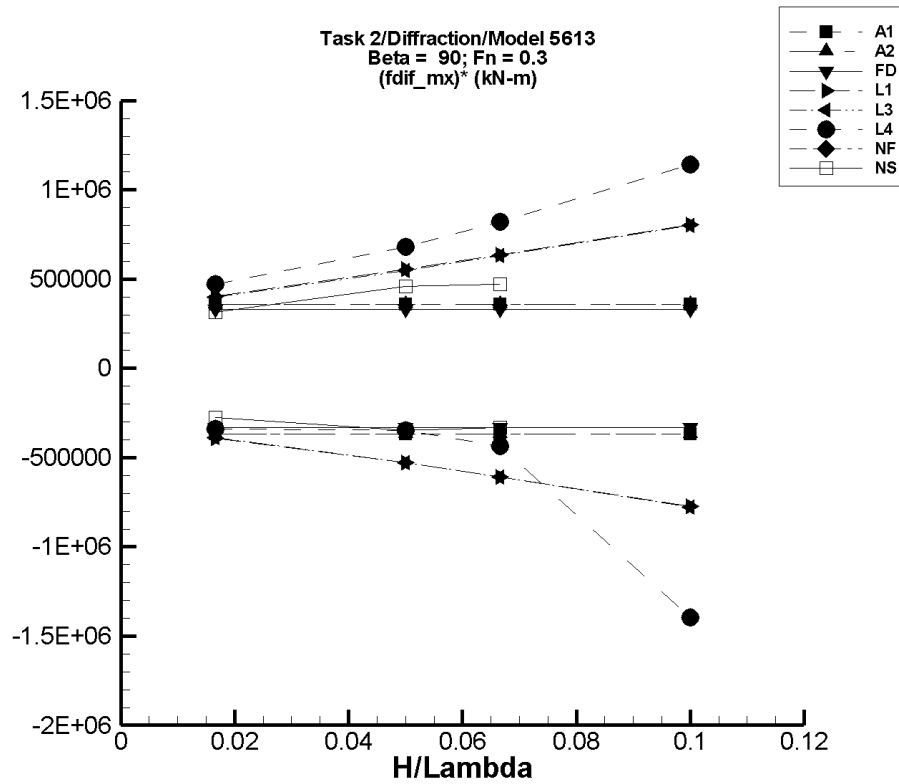


Figure Q-206. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1641. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.21	-6.28E+03	6.25E+03	-6.14E+03	5.95E+03	-3.68E+05	3.57E+05
1/20	-6.64	-1.89E+04	1.88E+04	-1.85E+04	1.79E+04	-3.69E+05	3.58E+05
1/15	-8.86	-2.52E+04	2.51E+04	-2.46E+04	2.39E+04	-3.69E+05	3.59E+05
1/10	-13.3	-3.79E+04	3.76E+04	-3.70E+04	3.58E+04	-3.69E+05	3.59E+05

Table Q-1642. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.21	-6.28E+03	6.25E+03	-6.14E+03	5.95E+03	-3.68E+05	3.57E+05
1/20	-6.64	-1.89E+04	1.88E+04	-1.85E+04	1.79E+04	-3.69E+05	3.58E+05
1/15	-8.86	-2.52E+04	2.51E+04	-2.46E+04	2.39E+04	-3.69E+05	3.59E+05
1/10	-13.3	-3.79E+04	3.76E+04	-3.70E+04	3.58E+04	-3.69E+05	3.59E+05

Table Q-1643. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	1.25	-5.55E+03	5.55E+03	-5.50E+03	5.50E+03	-3.30E+05	3.30E+05
1/20	3.74	-1.67E+04	1.67E+04	-1.65E+04	1.65E+04	-3.30E+05	3.30E+05
1/15	4.99	-2.22E+04	2.22E+04	-2.20E+04	2.20E+04	-3.30E+05	3.30E+05
1/10	7.49	-3.33E+04	3.33E+04	-3.30E+04	3.30E+04	-3.30E+05	3.30E+05

Table Q-1644. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b>		<b>Filtered <math>M_x^{\text{dif}}</math></b>		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	932.	-5.53E+03	7.70E+03	-5.57E+03	7.66E+03	-3.90E+05	4.04E+05
1/20	8.38E+03	-1.82E+04	3.63E+04	-1.80E+04	3.61E+04	-5.27E+05	5.54E+05
1/15	1.49E+04	-2.60E+04	5.77E+04	-2.56E+04	5.73E+04	-6.08E+05	6.37E+05
1/10	3.35E+04	-4.48E+04	1.15E+05	-4.40E+04	1.14E+05	-7.75E+05	8.06E+05

Table Q-1645. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_x^{\text{dif}}</math></b>		<b>Filtered <math>M_x^{\text{dif}}</math></b>		<b>Filtered <math>(M_x^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	932.	-5.53E+03	7.63E+03	-5.56E+03	7.59E+03	-3.90E+05	3.99E+05
1/20	8.38E+03	-1.83E+04	3.61E+04	-1.80E+04	3.58E+04	-5.29E+05	5.49E+05
1/15	1.49E+04	-2.61E+04	5.74E+04	-2.58E+04	5.70E+04	-6.10E+05	6.32E+05
1/10	3.35E+04	-4.50E+04	1.14E+05	-4.42E+04	1.14E+05	-7.77E+05	8.00E+05

Table Q-1646. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	1.06E+03	-5.33E+03	9.77E+03	-4.61E+03	8.89E+03	-3.40E+05	4.70E+05
1/20	6.13E+03	-1.17E+04	4.42E+04	-1.13E+04	4.01E+04	-3.49E+05	6.79E+05
1/15	4.67E+03	-2.53E+04	6.67E+04	-2.45E+04	5.94E+04	-4.37E+05	8.21E+05
1/10	-1.63E+04	-3.30E+05	1.12E+05	-1.56E+05	9.79E+04	-1.40E+06	1.14E+06

Table Q-1647. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1648. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-177.	-5.10E+03	5.33E+03	-4.77E+03	5.08E+03	-2.76E+05	3.15E+05
1/20	-1.67E+03	-2.32E+04	2.48E+04	-1.91E+04	2.12E+04	-3.49E+05	4.58E+05
1/15	-1.44E+03	-2.99E+04	3.52E+04	-2.35E+04	3.01E+04	-3.31E+05	4.73E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

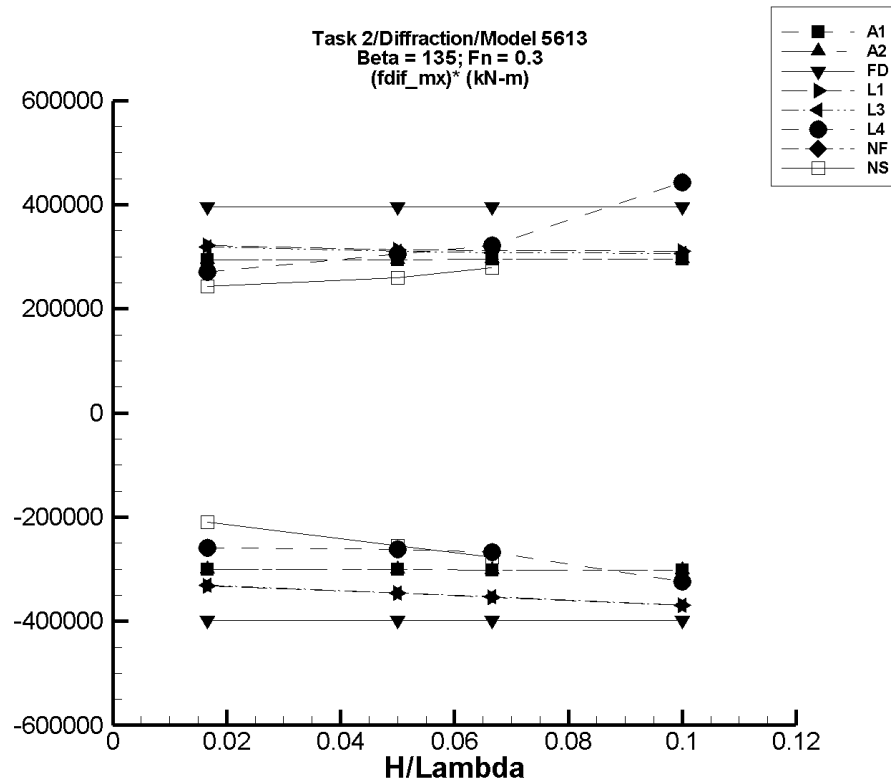


Figure Q-207. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1649. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.04	-5.14E+03	5.06E+03	-5.00E+03	4.90E+03	-3.00E+05	2.94E+05
1/20	-6.15	-1.55E+04	1.52E+04	-1.51E+04	1.47E+04	-3.01E+05	2.95E+05
1/15	-8.21	-2.07E+04	2.03E+04	-2.01E+04	1.97E+04	-3.01E+05	2.95E+05
1/10	-12.3	-3.10E+04	3.05E+04	-3.01E+04	2.95E+04	-3.01E+05	2.95E+05

Table Q-1650. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.04	-5.14E+03	5.06E+03	-5.00E+03	4.90E+03	-3.00E+05	2.94E+05
1/20	-6.15	-1.55E+04	1.52E+04	-1.51E+04	1.47E+04	-3.01E+05	2.95E+05
1/15	-8.21	-2.07E+04	2.03E+04	-2.01E+04	1.97E+04	-3.01E+05	2.95E+05
1/10	-12.3	-3.10E+04	3.05E+04	-3.01E+04	2.95E+04	-3.01E+05	2.95E+05

Table Q-1651. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-0.225	-6.76E+03	6.76E+03	-6.63E+03	6.60E+03	-3.98E+05	3.96E+05
1/20	-0.672	-2.03E+04	2.03E+04	-1.99E+04	1.98E+04	-3.98E+05	3.96E+05
1/15	-0.899	-2.70E+04	2.70E+04	-2.65E+04	2.64E+04	-3.98E+05	3.96E+05
1/10	-1.34	-4.06E+04	4.06E+04	-3.98E+04	3.96E+04	-3.98E+05	3.96E+05

Table Q-1652. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	617.	-4.98E+03	6.02E+03	-4.93E+03	5.97E+03	-3.33E+05	3.21E+05
1/20	5.55E+03	-1.19E+04	2.14E+04	-1.18E+04	2.12E+04	-3.46E+05	3.14E+05
1/15	9.86E+03	-1.40E+04	3.08E+04	-1.37E+04	3.06E+04	-3.54E+05	3.12E+05
1/10	2.22E+04	-1.52E+04	5.36E+04	-1.48E+04	5.33E+04	-3.69E+05	3.11E+05

Table Q-1653. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_x^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_x^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	617.	-4.95E+03	5.98E+03	-4.91E+03	5.93E+03	-3.31E+05	3.19E+05
1/20	5.55E+03	-1.19E+04	2.12E+04	-1.17E+04	2.11E+04	-3.45E+05	3.10E+05
1/15	9.86E+03	-1.39E+04	3.06E+04	-1.37E+04	3.04E+04	-3.53E+05	3.08E+05
1/10	2.22E+04	-1.52E+04	5.31E+04	-1.47E+04	5.28E+04	-3.69E+05	3.06E+05

Table Q–1654. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	676.	-4.46E+03	5.47E+03	-3.65E+03	5.18E+03	-2.60E+05	2.70E+05
1/20	3.84E+03	-1.33E+04	1.95E+04	-9.24E+03	1.91E+04	-2.62E+05	3.05E+05
1/15	2.62E+03	-2.04E+04	3.24E+04	-1.52E+04	2.41E+04	-2.68E+05	3.22E+05
1/10	-8.85E+03	-1.20E+05	1.36E+05	-4.12E+04	3.55E+04	-3.23E+05	4.43E+05

Table Q–1655. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1656. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_x^{\text{dif}}$ Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-62.5	-3.66E+03	4.08E+03	-3.55E+03	3.99E+03	-2.09E+05	2.43E+05
1/20	-893.	-2.73E+04	1.58E+04	-1.37E+04	1.21E+04	-2.55E+05	2.59E+05
1/15	-2.53E+03	-4.43E+04	1.70E+04	-2.10E+04	1.61E+04	-2.77E+05	2.80E+05
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

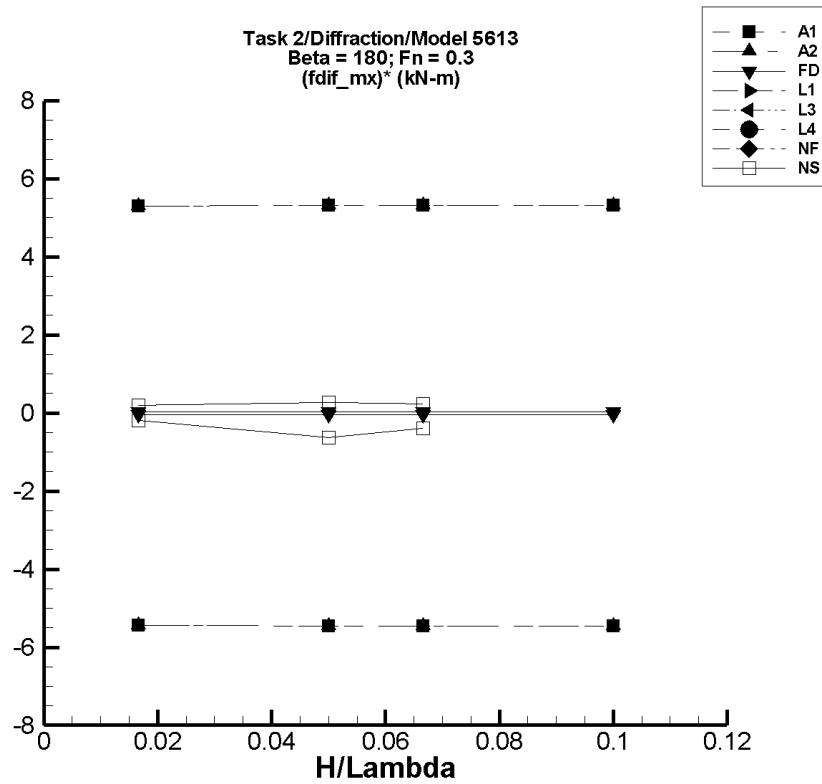


Figure Q-208. Minimum and maximum of filtered  $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1657. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.16E-04	-9.46E-02	9.01E-02	-9.16E-02	8.75E-02	-5.44	5.30
1/20	-2.76E-03	-0.284	0.271	-0.276	0.263	-5.46	5.32
1/15	-3.68E-03	-0.380	0.362	-0.368	0.351	-5.46	5.32
1/10	-5.52E-03	-0.570	0.543	-0.552	0.527	-5.46	5.32

Table Q-1658. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.16E-04	-9.46E-02	9.01E-02	-9.16E-02	8.75E-02	-5.44	5.30
1/20	-2.76E-03	-0.284	0.271	-0.276	0.263	-5.46	5.32
1/15	-3.68E-03	-0.380	0.362	-0.368	0.351	-5.46	5.32
1/10	-5.52E-03	-0.570	0.543	-0.552	0.527	-5.46	5.32

Table Q-1659. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.85E-07	-6.64E-04	6.64E-04	-6.44E-04	6.44E-04	-3.86E-02	3.87E-02
1/20	-1.15E-06	-1.99E-03	1.99E-03	-1.93E-03	1.93E-03	-3.86E-02	3.87E-02
1/15	-1.54E-06	-2.66E-03	2.66E-03	-2.57E-03	2.58E-03	-3.86E-02	3.87E-02
1/10	-2.31E-06	-3.98E-03	3.98E-03	-3.86E-03	3.86E-03	-3.86E-02	3.87E-02

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1660. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1661. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-3							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1662. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-4							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1663. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1664. Minimum and Maximum of Variables  $M_x^{\text{dif}}$  and  $(M_x^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_x^{\text{dif}} \rangle$	Unfiltered $M_x^{\text{dif}}$		Filtered $M_x^{\text{dif}}$		Filtered $(M_x^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.35E-04	-8.91E-02	0.110	-3.30E-03	2.99E-03	-0.190	0.188
1/20	-5.69E-05	-7.73E-02	9.72E-02	-3.12E-02	1.37E-02	-0.624	0.275
1/15	2.10E-04	-0.486	0.456	-2.61E-02	1.55E-02	-0.394	0.230
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

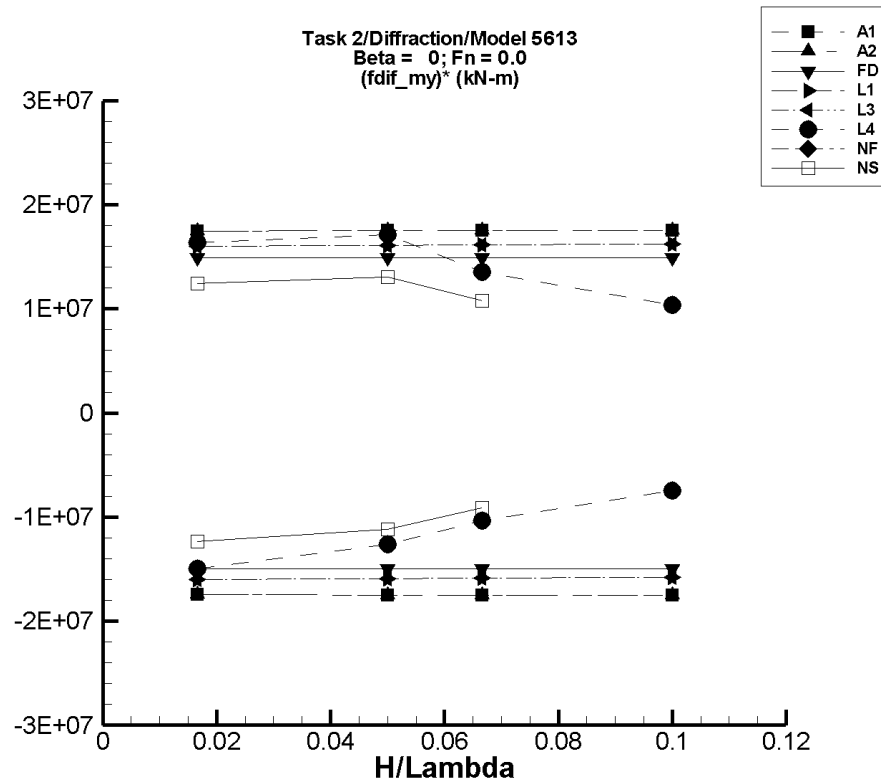


Figure Q-209. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1665. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-286.	-2.95E+05	2.95E+05	-2.91E+05	2.91E+05	-1.74E+07	1.75E+07
1/20	-860.	-8.87E+05	8.86E+05	-8.75E+05	8.76E+05	-1.75E+07	1.75E+07
1/15	-1.15E+03	-1.18E+06	1.18E+06	-1.17E+06	1.17E+06	-1.75E+07	1.76E+07
1/10	-1.72E+03	-1.78E+06	1.77E+06	-1.75E+06	1.75E+06	-1.75E+07	1.76E+07

Table Q-1666. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-286.	-2.95E+05	2.95E+05	-2.91E+05	2.91E+05	-1.74E+07	1.75E+07
1/20	-860.	-8.87E+05	8.86E+05	-8.75E+05	8.76E+05	-1.75E+07	1.75E+07
1/15	-1.15E+03	-1.18E+06	1.18E+06	-1.17E+06	1.17E+06	-1.75E+07	1.76E+07
1/10	-1.72E+03	-1.78E+06	1.77E+06	-1.75E+06	1.75E+06	-1.75E+07	1.76E+07

Table Q-1667. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	41.5	-2.51E+05	2.51E+05	-2.49E+05	2.49E+05	-1.49E+07	1.49E+07
1/20	124.	-7.54E+05	7.54E+05	-7.46E+05	7.46E+05	-1.49E+07	1.49E+07
1/15	166.	-1.01E+06	1.00E+06	-9.95E+05	9.95E+05	-1.49E+07	1.49E+07
1/10	249.	-1.51E+06	1.51E+06	-1.49E+06	1.49E+06	-1.49E+07	1.49E+07

Table Q-1668. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.34E+03	-2.71E+05	2.64E+05	-2.71E+05	2.63E+05	-1.60E+07	1.60E+07
1/20	-4.04E+04	-8.36E+05	7.68E+05	-8.37E+05	7.65E+05	-1.59E+07	1.61E+07
1/15	-7.21E+04	-1.13E+06	1.01E+06	-1.13E+06	1.00E+06	-1.59E+07	1.61E+07
1/10	-1.63E+05	-1.74E+06	1.47E+06	-1.74E+06	1.46E+06	-1.58E+07	1.62E+07

Table Q-1669. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.34E+03	-2.71E+05	2.64E+05	-2.71E+05	2.63E+05	-1.60E+07	1.60E+07
1/20	-4.04E+04	-8.36E+05	7.68E+05	-8.36E+05	7.65E+05	-1.59E+07	1.61E+07
1/15	-7.21E+04	-1.13E+06	1.01E+06	-1.13E+06	1.00E+06	-1.59E+07	1.62E+07
1/10	-1.63E+05	-1.74E+06	1.47E+06	-1.74E+06	1.46E+06	-1.58E+07	1.62E+07

Table Q-1670. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-7.08E+03	-2.58E+05	2.80E+05	-2.57E+05	2.66E+05	-1.50E+07	1.64E+07
1/20	-3.44E+04	-6.80E+05	9.55E+05	-6.66E+05	8.22E+05	-1.26E+07	1.71E+07
1/15	-2.58E+04	-7.56E+05	9.06E+05	-7.17E+05	8.76E+05	-1.04E+07	1.35E+07
1/10	2.11E+03	-8.05E+05	1.13E+06	-7.45E+05	1.04E+06	-7.47E+06	1.04E+07

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Table Q-1671. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1672. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.92E+03	-2.13E+05	2.07E+05	-2.10E+05	2.03E+05	-1.24E+07	1.24E+07
1/20	-4.14E+04	-6.28E+05	7.73E+05	-6.00E+05	6.12E+05	-1.12E+07	1.31E+07
1/15	-3.12E+04	-6.57E+05	7.72E+05	-6.41E+05	6.88E+05	-9.14E+06	1.08E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

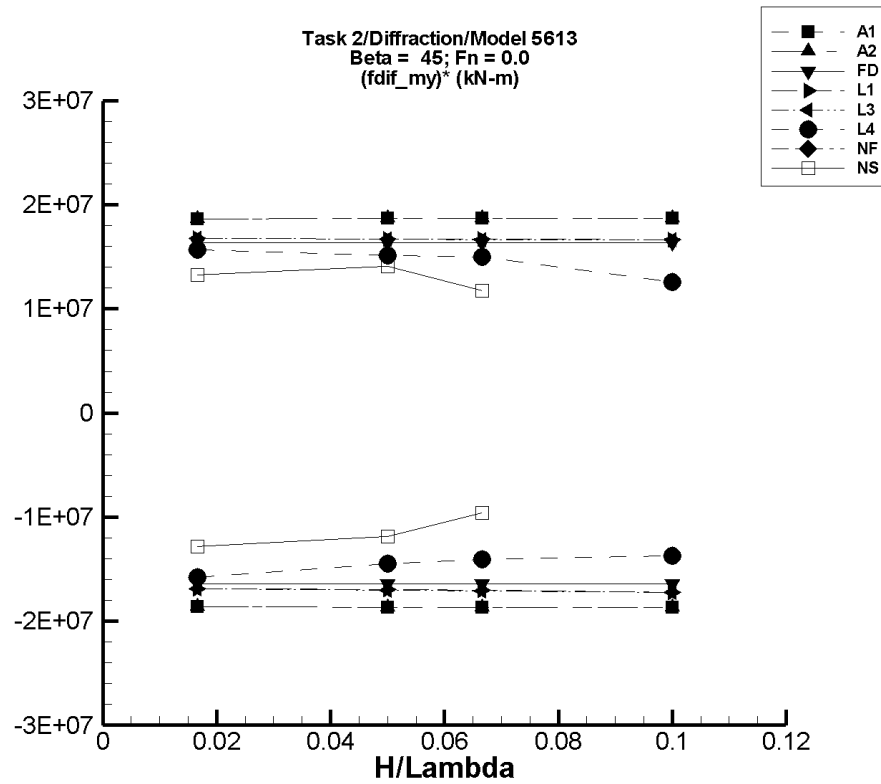


Figure Q-210. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1673. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-161.	-3.13E+05	3.13E+05	-3.11E+05	3.10E+05	-1.86E+07	1.86E+07
1/20	-485.	-9.43E+05	9.42E+05	-9.34E+05	9.33E+05	-1.87E+07	1.87E+07
1/15	-647.	-1.26E+06	1.26E+06	-1.25E+06	1.25E+06	-1.87E+07	1.87E+07
1/10	-971.	-1.89E+06	1.89E+06	-1.87E+06	1.87E+06	-1.87E+07	1.87E+07

Table Q-1674. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-161.	-3.13E+05	3.13E+05	-3.11E+05	3.10E+05	-1.86E+07	1.86E+07
1/20	-485.	-9.43E+05	9.42E+05	-9.34E+05	9.33E+05	-1.87E+07	1.87E+07
1/15	-647.	-1.26E+06	1.26E+06	-1.25E+06	1.25E+06	-1.87E+07	1.87E+07
1/10	-971.	-1.89E+06	1.89E+06	-1.87E+06	1.87E+06	-1.87E+07	1.87E+07

Table Q-1675. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.03	-2.76E+05	2.76E+05	-2.73E+05	2.73E+05	-1.64E+07	1.64E+07
1/20	18.1	-8.27E+05	8.27E+05	-8.19E+05	8.19E+05	-1.64E+07	1.64E+07
1/15	24.2	-1.10E+06	1.10E+06	-1.09E+06	1.09E+06	-1.64E+07	1.64E+07
1/10	36.3	-1.65E+06	1.65E+06	-1.64E+06	1.64E+06	-1.64E+07	1.64E+07

Table Q-1676. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.65E+03	-2.84E+05	2.79E+05	-2.83E+05	2.78E+05	-1.69E+07	1.68E+07
1/20	-1.51E+04	-8.67E+05	8.23E+05	-8.64E+05	8.20E+05	-1.70E+07	1.67E+07
1/15	-2.70E+04	-1.17E+06	1.09E+06	-1.16E+06	1.08E+06	-1.71E+07	1.67E+07
1/10	-6.08E+04	-1.79E+06	1.61E+06	-1.78E+06	1.60E+06	-1.72E+07	1.67E+07



Table Q-1677. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.65E+03	-2.84E+05	2.79E+05	-2.83E+05	2.78E+05	-1.69E+07	1.68E+07
1/20	-1.51E+04	-8.68E+05	8.22E+05	-8.65E+05	8.19E+05	-1.70E+07	1.67E+07
1/15	-2.70E+04	-1.17E+06	1.09E+06	-1.16E+06	1.08E+06	-1.71E+07	1.66E+07
1/10	-6.09E+04	-1.79E+06	1.61E+06	-1.78E+06	1.60E+06	-1.72E+07	1.66E+07

Table Q-1678. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.78E+03	-2.69E+05	2.68E+05	-2.67E+05	2.58E+05	-1.58E+07	1.57E+07
1/20	-6.00E+03	-7.43E+05	8.37E+05	-7.31E+05	7.52E+05	-1.45E+07	1.51E+07
1/15	1.17E+04	-9.39E+05	1.10E+06	-9.27E+05	1.01E+06	-1.41E+07	1.50E+07
1/10	8.98E+04	-1.38E+06	1.42E+06	-1.28E+06	1.35E+06	-1.37E+07	1.26E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1679. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1680. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.74E+03	-2.21E+05	2.20E+05	-2.18E+05	2.17E+05	-1.29E+07	1.32E+07
1/20	-3.92E+04	-6.80E+05	8.20E+05	-6.34E+05	6.63E+05	-1.19E+07	1.41E+07
1/15	-1.67E+04	-6.92E+05	1.33E+06	-6.56E+05	7.66E+05	-9.59E+06	1.17E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

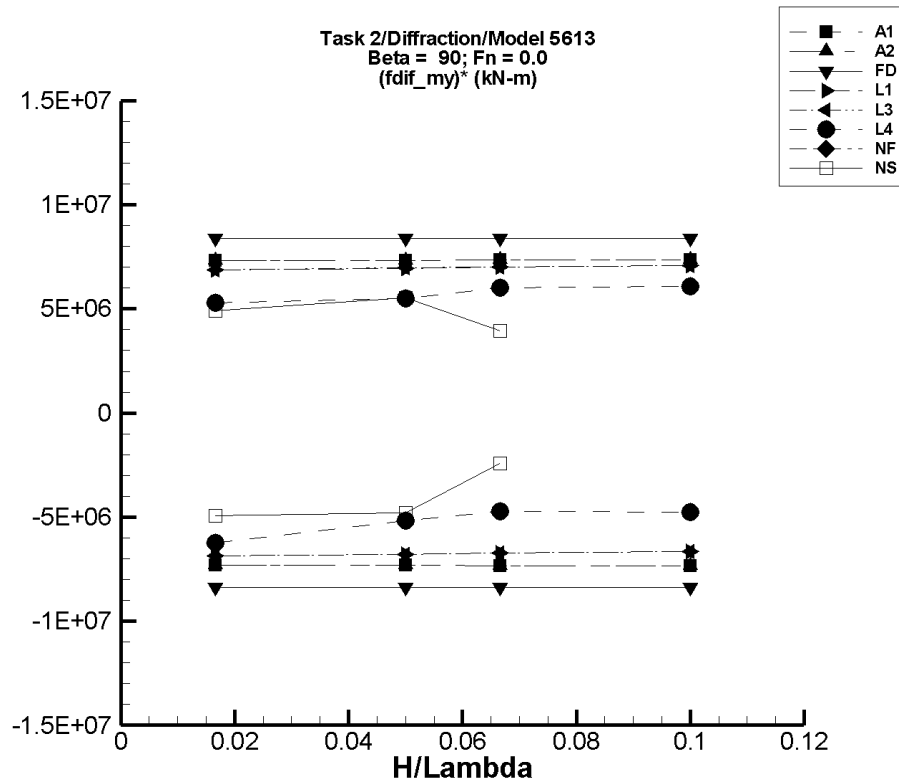


Figure Q-211. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1681. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	350.	-1.23E+05	1.24E+05	-1.21E+05	1.22E+05	-7.30E+06	7.32E+06
1/20	1.05E+03	-3.69E+05	3.72E+05	-3.65E+05	3.68E+05	-7.32E+06	7.33E+06
1/15	1.41E+03	-4.92E+05	4.96E+05	-4.87E+05	4.91E+05	-7.33E+06	7.34E+06
1/10	2.11E+03	-7.39E+05	7.44E+05	-7.31E+05	7.36E+05	-7.33E+06	7.34E+06

Table Q-1682. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	350.	-1.23E+05	1.24E+05	-1.21E+05	1.22E+05	-7.30E+06	7.32E+06
1/20	1.05E+03	-3.69E+05	3.72E+05	-3.65E+05	3.68E+05	-7.32E+06	7.33E+06
1/15	1.41E+03	-4.92E+05	4.96E+05	-4.87E+05	4.91E+05	-7.33E+06	7.34E+06
1/10	2.11E+03	-7.39E+05	7.44E+05	-7.31E+05	7.36E+05	-7.33E+06	7.34E+06

Table Q-1683. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-65.1	-1.41E+05	1.41E+05	-1.40E+05	1.40E+05	-8.37E+06	8.38E+06
1/20	-195.	-4.23E+05	4.23E+05	-4.19E+05	4.19E+05	-8.37E+06	8.38E+06
1/15	-260.	-5.64E+05	5.64E+05	-5.59E+05	5.59E+05	-8.37E+06	8.38E+06
1/10	-390.	-8.46E+05	8.47E+05	-8.38E+05	8.38E+05	-8.37E+06	8.38E+06

Table Q-1684. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.39E+03	-1.15E+05	1.14E+05	-1.16E+05	1.13E+05	-6.86E+06	6.87E+06
1/20	-1.27E+04	-3.50E+05	3.37E+05	-3.52E+05	3.35E+05	-6.78E+06	6.96E+06
1/15	-2.26E+04	-4.70E+05	4.46E+05	-4.72E+05	4.44E+05	-6.74E+06	7.00E+06
1/10	-5.10E+04	-7.15E+05	6.61E+05	-7.17E+05	6.58E+05	-6.66E+06	7.09E+06

Table Q-1685. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.39E+03	-1.15E+05	1.14E+05	-1.16E+05	1.13E+05	-6.86E+06	6.88E+06
1/20	-1.27E+04	-3.50E+05	3.37E+05	-3.52E+05	3.35E+05	-6.78E+06	6.96E+06
1/15	-2.26E+04	-4.69E+05	4.46E+05	-4.72E+05	4.44E+05	-6.74E+06	7.00E+06
1/10	-5.10E+04	-7.14E+05	6.61E+05	-7.17E+05	6.58E+05	-6.66E+06	7.09E+06

Table Q-1686. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.01E+03	-1.07E+05	9.80E+04	-1.07E+05	8.50E+04	-6.24E+06	5.28E+06
1/20	-1.07E+04	-2.81E+05	2.98E+05	-2.70E+05	2.65E+05	-5.19E+06	5.51E+06
1/15	-1.91E+04	-3.53E+05	4.29E+05	-3.35E+05	3.82E+05	-4.74E+06	6.02E+06
1/10	3.37E+04	-1.28E+06	1.58E+06	-4.43E+05	6.43E+05	-4.76E+06	6.09E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1687. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1688. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.35E+03	-8.71E+04	8.51E+04	-8.53E+04	7.86E+04	-4.92E+06	4.91E+06
1/20	-3.79E+04	-3.79E+05	3.59E+05	-2.78E+05	2.38E+05	-4.80E+06	5.52E+06
1/15	-4.14E+03	-1.89E+05	6.82E+05	-1.65E+05	2.59E+05	-2.41E+06	3.95E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

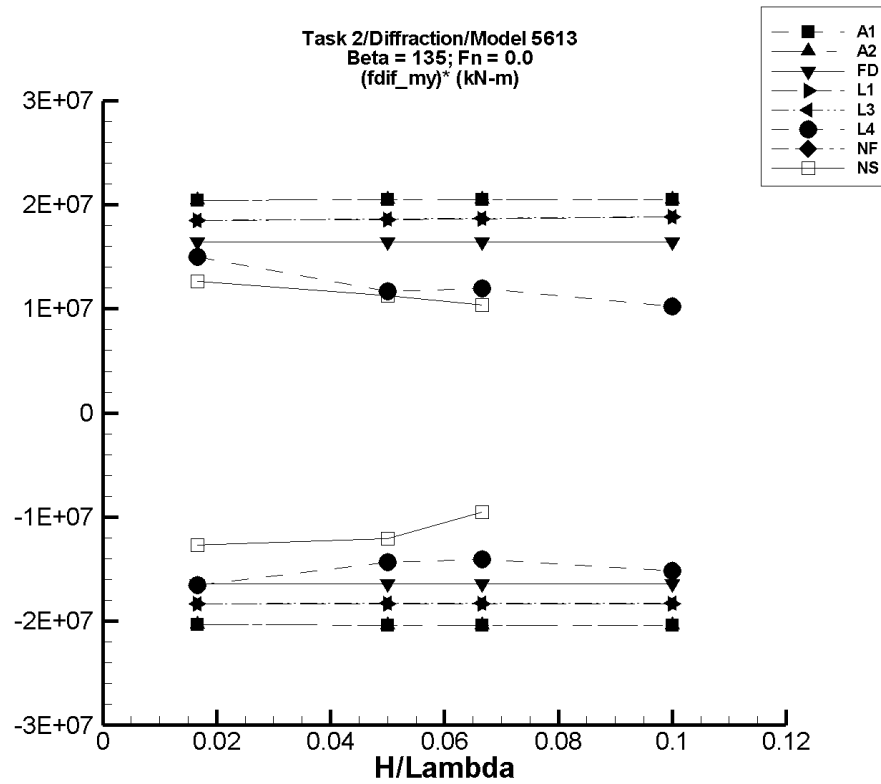


Figure Q-212. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



Table Q-1689. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	255.	-3.42E+05	3.44E+05	-3.38E+05	3.41E+05	-2.03E+07	2.04E+07
1/20	766.	-1.03E+06	1.03E+06	-1.02E+06	1.03E+06	-2.04E+07	2.05E+07
1/15	1.02E+03	-1.37E+06	1.38E+06	-1.36E+06	1.37E+06	-2.04E+07	2.05E+07
1/10	1.53E+03	-2.06E+06	2.07E+06	-2.04E+06	2.05E+06	-2.04E+07	2.05E+07

Table Q-1690. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	255.	-3.42E+05	3.44E+05	-3.38E+05	3.41E+05	-2.03E+07	2.04E+07
1/20	766.	-1.03E+06	1.03E+06	-1.02E+06	1.03E+06	-2.04E+07	2.05E+07
1/15	1.02E+03	-1.37E+06	1.38E+06	-1.36E+06	1.37E+06	-2.04E+07	2.05E+07
1/10	1.53E+03	-2.06E+06	2.07E+06	-2.04E+06	2.05E+06	-2.04E+07	2.05E+07

Table Q-1691. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.66	-2.76E+05	2.76E+05	-2.74E+05	2.74E+05	-1.64E+07	1.64E+07
1/20	20.1	-8.29E+05	8.29E+05	-8.21E+05	8.21E+05	-1.64E+07	1.64E+07
1/15	26.7	-1.11E+06	1.11E+06	-1.09E+06	1.09E+06	-1.64E+07	1.64E+07
1/10	40.1	-1.66E+06	1.66E+06	-1.64E+06	1.64E+06	-1.64E+07	1.64E+07

Table Q-1692. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.97E+03	-3.11E+05	3.05E+05	-3.10E+05	3.04E+05	-1.84E+07	1.85E+07
1/20	-3.39E+04	-9.53E+05	8.99E+05	-9.50E+05	8.95E+05	-1.83E+07	1.86E+07
1/15	-5.98E+04	-1.28E+06	1.19E+06	-1.28E+06	1.18E+06	-1.83E+07	1.87E+07
1/10	-1.34E+05	-1.97E+06	1.75E+06	-1.97E+06	1.75E+06	-1.83E+07	1.88E+07

Table Q-1693. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.96E+03	-3.11E+05	3.05E+05	-3.10E+05	3.04E+05	-1.84E+07	1.85E+07
1/20	-3.39E+04	-9.52E+05	9.00E+05	-9.49E+05	8.96E+05	-1.83E+07	1.86E+07
1/15	-5.98E+04	-1.28E+06	1.19E+06	-1.28E+06	1.19E+06	-1.83E+07	1.87E+07
1/10	-1.34E+05	-1.97E+06	1.76E+06	-1.96E+06	1.75E+06	-1.83E+07	1.88E+07

Table Q-1694. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.54E+04	-2.94E+05	2.36E+05	-2.92E+05	2.34E+05	-1.66E+07	1.50E+07
1/20	-1.26E+05	-8.49E+05	4.74E+05	-8.44E+05	4.58E+05	-1.44E+07	1.17E+07
1/15	-2.16E+05	-1.17E+06	6.06E+05	-1.15E+06	5.79E+05	-1.41E+07	1.19E+07
1/10	-2.53E+05	-1.82E+06	8.51E+05	-1.77E+06	7.74E+05	-1.52E+07	1.03E+07

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1695. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1696. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.47E+03	-2.16E+05	2.10E+05	-2.14E+05	2.08E+05	-1.27E+07	1.26E+07
1/20	-3.55E+04	-6.80E+05	6.66E+05	-6.39E+05	5.27E+05	-1.21E+07	1.12E+07
1/15	-1.40E+04	-6.69E+05	9.10E+05	-6.48E+05	6.80E+05	-9.51E+06	1.04E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

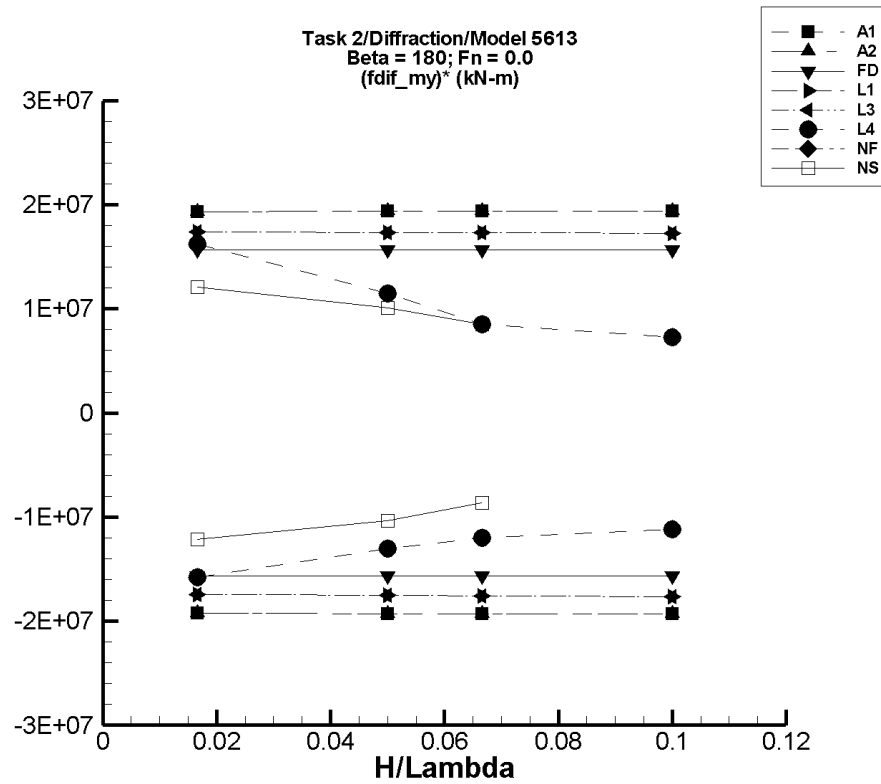


Figure Q-213. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1697. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	53.1	-3.24E+05	3.26E+05	-3.21E+05	3.22E+05	-1.92E+07	1.93E+07
1/20	160.	-9.75E+05	9.79E+05	-9.64E+05	9.69E+05	-1.93E+07	1.94E+07
1/15	214.	-1.30E+06	1.31E+06	-1.29E+06	1.29E+06	-1.93E+07	1.94E+07
1/10	320.	-1.95E+06	1.96E+06	-1.93E+06	1.94E+06	-1.93E+07	1.94E+07

Table Q-1698. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	53.1	-3.24E+05	3.26E+05	-3.21E+05	3.22E+05	-1.92E+07	1.93E+07
1/20	160.	-9.75E+05	9.79E+05	-9.64E+05	9.69E+05	-1.93E+07	1.94E+07
1/15	214.	-1.30E+06	1.31E+06	-1.29E+06	1.29E+06	-1.93E+07	1.94E+07
1/10	320.	-1.95E+06	1.96E+06	-1.93E+06	1.94E+06	-1.93E+07	1.94E+07

Table Q–1699. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	44.9	-2.64E+05	2.64E+05	-2.61E+05	2.61E+05	-1.57E+07	1.57E+07
1/20	135.	-7.91E+05	7.91E+05	-7.83E+05	7.83E+05	-1.57E+07	1.57E+07
1/15	180.	-1.05E+06	1.05E+06	-1.04E+06	1.04E+06	-1.57E+07	1.57E+07
1/10	270.	-1.58E+06	1.58E+06	-1.57E+06	1.57E+06	-1.57E+07	1.57E+07

Table Q–1700. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.95E+03	-2.94E+05	2.89E+05	-2.93E+05	2.88E+05	-1.75E+07	1.74E+07
1/20	-1.68E+04	-8.97E+05	8.53E+05	-8.94E+05	8.50E+05	-1.75E+07	1.73E+07
1/15	-2.96E+04	-1.21E+06	1.13E+06	-1.20E+06	1.12E+06	-1.76E+07	1.73E+07
1/10	-6.63E+04	-1.84E+06	1.66E+06	-1.83E+06	1.66E+06	-1.76E+07	1.72E+07

Table Q-1701. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.94E+03	-2.94E+05	2.89E+05	-2.93E+05	2.88E+05	-1.75E+07	1.74E+07
1/20	-1.67E+04	-8.97E+05	8.53E+05	-8.94E+05	8.50E+05	-1.75E+07	1.73E+07
1/15	-2.96E+04	-1.21E+06	1.13E+06	-1.20E+06	1.12E+06	-1.76E+07	1.73E+07
1/10	-6.63E+04	-1.84E+06	1.66E+06	-1.83E+06	1.66E+06	-1.76E+07	1.72E+07

Table Q-1702. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

LAMP-4							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.19E+04	-2.76E+05	2.64E+05	-2.75E+05	2.58E+05	-1.58E+07	1.62E+07
1/20	-1.05E+05	-7.62E+05	5.26E+05	-7.57E+05	4.70E+05	-1.30E+07	1.15E+07
1/15	-1.67E+05	-9.71E+05	4.44E+05	-9.65E+05	4.01E+05	-1.20E+07	8.52E+06
1/10	-2.12E+05	-2.14E+06	6.33E+05	-1.33E+06	5.19E+05	-1.12E+07	7.31E+06



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1703. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1704. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.93E+03	-2.08E+05	2.00E+05	-2.05E+05	1.98E+05	-1.21E+07	1.21E+07
1/20	-4.15E+04	-5.69E+05	5.29E+05	-5.58E+05	4.62E+05	-1.03E+07	1.01E+07
1/15	-3.25E+04	-6.21E+05	8.01E+05	-6.09E+05	5.33E+05	-8.64E+06	8.49E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

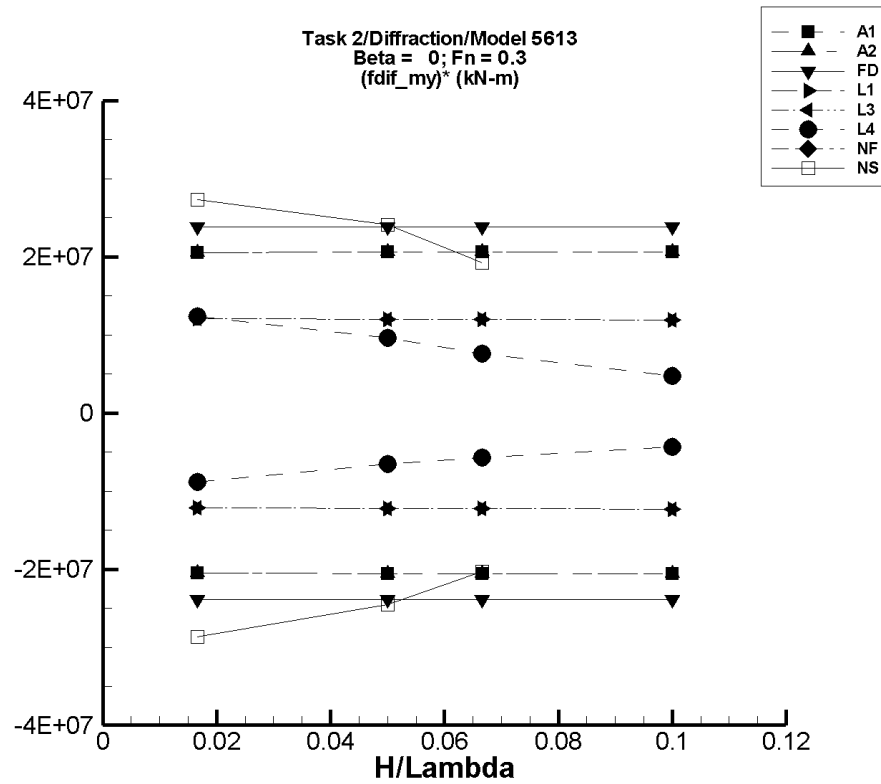


Figure Q-214. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 0^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q–1705. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	113.	-3.45E+05	3.44E+05	-3.42E+05	3.42E+05	-2.05E+07	2.05E+07
1/20	341.	-1.04E+06	1.03E+06	-1.03E+06	1.03E+06	-2.06E+07	2.06E+07
1/15	455.	-1.38E+06	1.38E+06	-1.37E+06	1.37E+06	-2.06E+07	2.06E+07
1/10	682.	-2.08E+06	2.07E+06	-2.06E+06	2.06E+06	-2.06E+07	2.06E+07

Table Q–1706. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	<b>Unfiltered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>M_y^{\text{dif}}</math></b>		<b>Filtered <math>(M_y^{\text{dif}})^*</math></b>	
	<b>Mean (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>	<b>Min. (kN-m)</b>	<b>Max. (kN-m)</b>
1/60	113.	-3.45E+05	3.44E+05	-3.42E+05	3.42E+05	-2.05E+07	2.05E+07
1/20	341.	-1.04E+06	1.03E+06	-1.03E+06	1.03E+06	-2.06E+07	2.06E+07
1/15	455.	-1.38E+06	1.38E+06	-1.37E+06	1.37E+06	-2.06E+07	2.06E+07
1/10	682.	-2.08E+06	2.07E+06	-2.06E+06	2.06E+06	-2.06E+07	2.06E+07

Table Q–1707. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.660	-3.97E+05	3.97E+05	-3.98E+05	3.97E+05	-2.39E+07	2.38E+07
1/20	-2.12	-1.19E+06	1.19E+06	-1.19E+06	1.19E+06	-2.39E+07	2.38E+07
1/15	-2.67	-1.59E+06	1.59E+06	-1.59E+06	1.59E+06	-2.39E+07	2.38E+07
1/10	-4.24	-2.38E+06	2.38E+06	-2.39E+06	2.38E+06	-2.39E+07	2.38E+07

Table Q–1708. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.13E+04	-2.14E+05	1.90E+05	-2.14E+05	1.90E+05	-1.22E+07	1.21E+07
1/20	-1.72E+04	-6.29E+05	5.84E+05	-6.30E+05	5.84E+05	-1.22E+07	1.20E+07
1/15	-2.24E+04	-8.41E+05	7.77E+05	-8.41E+05	7.77E+05	-1.23E+07	1.20E+07
1/10	-3.74E+04	-1.27E+06	1.16E+06	-1.27E+06	1.16E+06	-1.24E+07	1.19E+07

Table Q-1709. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.13E+04	-2.14E+05	1.90E+05	-2.14E+05	1.90E+05	-1.22E+07	1.21E+07
1/20	-1.72E+04	-6.29E+05	5.84E+05	-6.30E+05	5.84E+05	-1.22E+07	1.20E+07
1/15	-2.24E+04	-8.41E+05	7.77E+05	-8.41E+05	7.77E+05	-1.23E+07	1.20E+07
1/10	-3.74E+04	-1.27E+06	1.16E+06	-1.27E+06	1.16E+06	-1.24E+07	1.19E+07

Table Q-1710. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.73E+04	-1.87E+05	1.72E+05	-1.84E+05	1.68E+05	-8.83E+06	1.23E+07
1/20	-6.83E+04	-4.06E+05	4.25E+05	-3.97E+05	4.13E+05	-6.57E+06	9.64E+06
1/15	-5.92E+04	-4.65E+05	4.58E+05	-4.41E+05	4.45E+05	-5.73E+06	7.56E+06
1/10	8.28E+03	-1.02E+06	8.18E+05	-4.30E+05	4.83E+05	-4.38E+06	4.74E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1711. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1712. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 0^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.57E+04	-4.48E+05	4.95E+05	-4.42E+05	4.90E+05	-2.87E+07	2.73E+07
1/20	-7.02E+04	-1.32E+06	1.15E+06	-1.30E+06	1.14E+06	-2.46E+07	2.41E+07
1/15	-3.19E+04	-1.39E+06	1.27E+06	-1.38E+06	1.25E+06	-2.03E+07	1.93E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

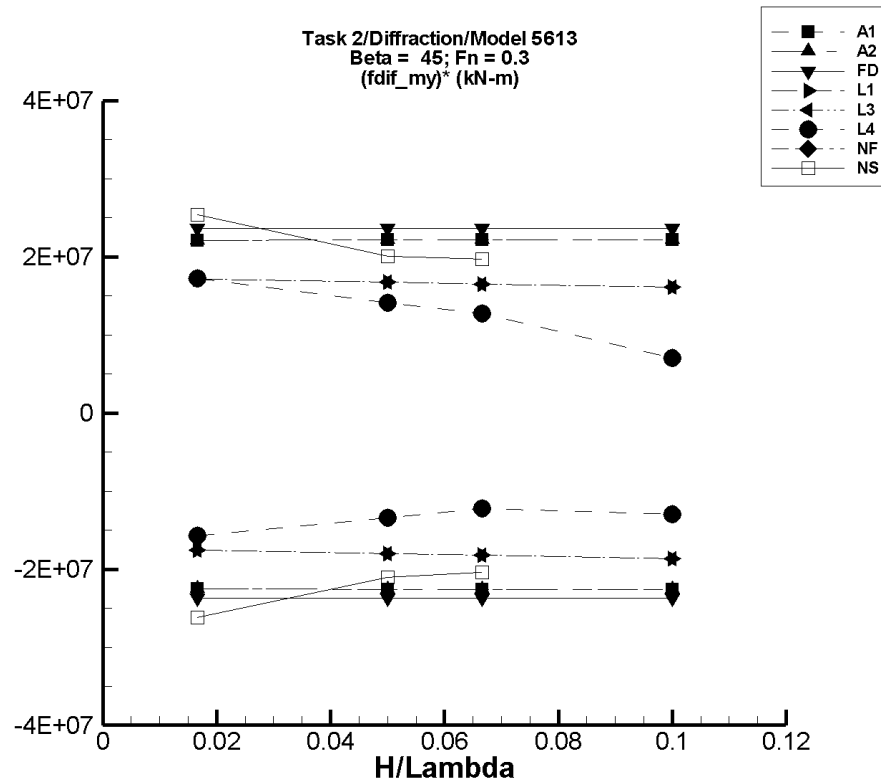


Figure Q-215. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1713. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.10E+03	-3.75E+05	3.70E+05	-3.75E+05	3.69E+05	-2.25E+07	2.21E+07
1/20	3.32E+03	-1.13E+06	1.11E+06	-1.13E+06	1.11E+06	-2.26E+07	2.22E+07
1/15	4.43E+03	-1.51E+06	1.49E+06	-1.50E+06	1.48E+06	-2.26E+07	2.22E+07
1/10	6.65E+03	-2.26E+06	2.23E+06	-2.26E+06	2.23E+06	-2.26E+07	2.22E+07

Table Q-1714. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.10E+03	-3.75E+05	3.70E+05	-3.75E+05	3.69E+05	-2.25E+07	2.21E+07
1/20	3.32E+03	-1.13E+06	1.11E+06	-1.13E+06	1.11E+06	-2.26E+07	2.22E+07
1/15	4.43E+03	-1.51E+06	1.49E+06	-1.50E+06	1.48E+06	-2.26E+07	2.22E+07
1/10	6.65E+03	-2.26E+06	2.23E+06	-2.26E+06	2.23E+06	-2.26E+07	2.22E+07



Table Q-1715. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-93.7	-3.96E+05	3.96E+05	-3.95E+05	3.95E+05	-2.37E+07	2.37E+07
1/20	-281.	-1.19E+06	1.19E+06	-1.18E+06	1.18E+06	-2.37E+07	2.37E+07
1/15	-375.	-1.58E+06	1.58E+06	-1.58E+06	1.58E+06	-2.37E+07	2.37E+07
1/10	-563.	-2.37E+06	2.37E+06	-2.37E+06	2.37E+06	-2.37E+07	2.37E+07

Table Q-1716. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.26E+04	-3.06E+05	2.74E+05	-3.06E+05	2.74E+05	-1.76E+07	1.72E+07
1/20	-2.73E+04	-9.29E+05	8.10E+05	-9.28E+05	8.10E+05	-1.80E+07	1.67E+07
1/15	-4.02E+04	-1.26E+06	1.06E+06	-1.25E+06	1.06E+06	-1.82E+07	1.65E+07
1/10	-7.68E+04	-1.94E+06	1.54E+06	-1.94E+06	1.53E+06	-1.86E+07	1.61E+07

Table Q-1717. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.26E+04	-3.06E+05	2.74E+05	-3.06E+05	2.74E+05	-1.76E+07	1.72E+07
1/20	-2.73E+04	-9.29E+05	8.11E+05	-9.28E+05	8.10E+05	-1.80E+07	1.67E+07
1/15	-4.01E+04	-1.26E+06	1.06E+06	-1.26E+06	1.06E+06	-1.82E+07	1.65E+07
1/10	-7.67E+04	-1.94E+06	1.54E+06	-1.94E+06	1.53E+06	-1.86E+07	1.61E+07

Table Q-1718. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.12E+04	-3.05E+05	2.49E+05	-3.03E+05	2.46E+05	-1.57E+07	1.72E+07
1/20	-9.83E+04	-7.70E+05	6.15E+05	-7.68E+05	6.09E+05	-1.34E+07	1.41E+07
1/15	-1.06E+05	-9.28E+05	7.53E+05	-9.22E+05	7.45E+05	-1.22E+07	1.28E+07
1/10	2.01E+04	-1.30E+06	3.12E+06	-1.27E+06	7.23E+05	-1.29E+07	7.03E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1719. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1720. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.31E+04	-4.20E+05	4.52E+05	-4.14E+05	4.47E+05	-2.62E+07	2.54E+07
1/20	-1.49E+04	-1.09E+06	1.06E+06	-1.07E+06	9.90E+05	-2.10E+07	2.01E+07
1/15	-4.40E+04	-1.43E+06	1.45E+06	-1.40E+06	1.27E+06	-2.04E+07	1.97E+07
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

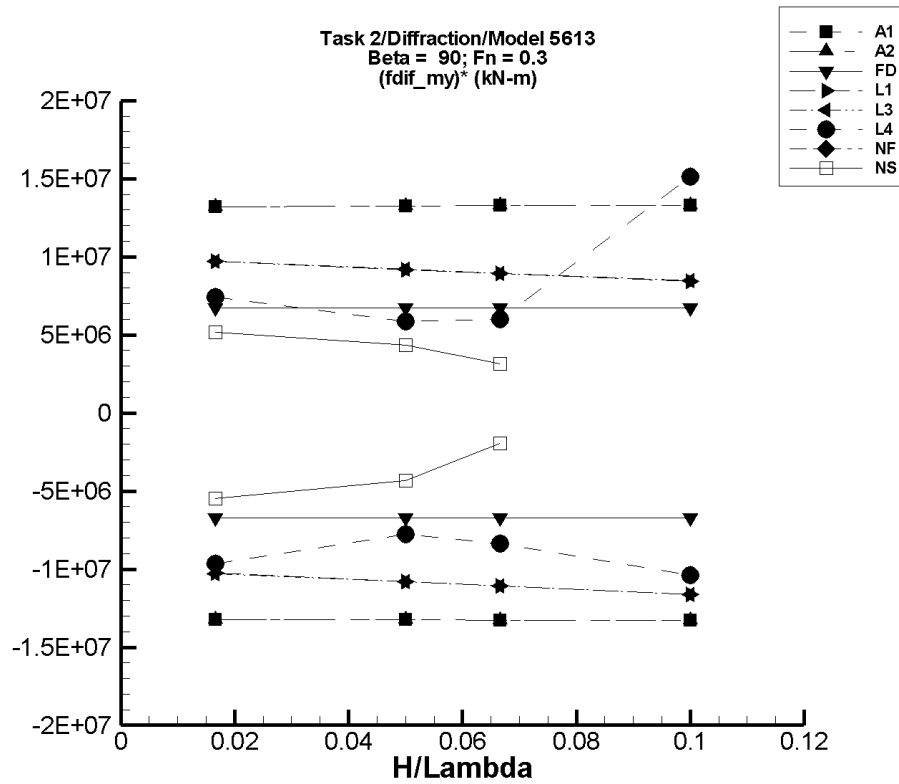


Figure Q-216. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1721. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	708.	-2.22E+05	2.24E+05	-2.20E+05	2.21E+05	-1.32E+07	1.32E+07
1/20	2.13E+03	-6.68E+05	6.73E+05	-6.60E+05	6.65E+05	-1.32E+07	1.33E+07
1/15	2.84E+03	-8.92E+05	8.98E+05	-8.81E+05	8.88E+05	-1.33E+07	1.33E+07
1/10	4.27E+03	-1.34E+06	1.35E+06	-1.32E+06	1.33E+06	-1.33E+07	1.33E+07

Table Q-1722. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	708.	-2.22E+05	2.24E+05	-2.20E+05	2.21E+05	-1.32E+07	1.32E+07
1/20	2.13E+03	-6.68E+05	6.73E+05	-6.60E+05	6.65E+05	-1.32E+07	1.33E+07
1/15	2.84E+03	-8.92E+05	8.98E+05	-8.81E+05	8.88E+05	-1.33E+07	1.33E+07
1/10	4.27E+03	-1.34E+06	1.35E+06	-1.32E+06	1.33E+06	-1.33E+07	1.33E+07

Table Q-1723. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-49.4	-1.13E+05	1.13E+05	-1.12E+05	1.12E+05	-6.72E+06	6.72E+06
1/20	-148.	-3.39E+05	3.39E+05	-3.36E+05	3.36E+05	-6.72E+06	6.72E+06
1/15	-197.	-4.53E+05	4.52E+05	-4.48E+05	4.48E+05	-6.72E+06	6.72E+06
1/10	-296.	-6.79E+05	6.79E+05	-6.72E+05	6.72E+05	-6.72E+06	6.72E+06

Table Q-1724. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.47E+04	-1.87E+05	1.48E+05	-1.86E+05	1.47E+05	-1.03E+07	9.72E+06
1/20	-4.73E+04	-5.90E+05	4.13E+05	-5.88E+05	4.12E+05	-1.08E+07	9.18E+06
1/15	-7.58E+04	-8.19E+05	5.20E+05	-8.15E+05	5.19E+05	-1.11E+07	8.92E+06
1/10	-1.57E+05	-1.33E+06	6.86E+05	-1.32E+06	6.84E+05	-1.16E+07	8.42E+06

Table Q-1725. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.47E+04	-1.87E+05	1.48E+05	-1.86E+05	1.47E+05	-1.03E+07	9.72E+06
1/20	-4.73E+04	-5.90E+05	4.14E+05	-5.88E+05	4.12E+05	-1.08E+07	9.20E+06
1/15	-7.58E+04	-8.18E+05	5.21E+05	-8.15E+05	5.20E+05	-1.11E+07	8.94E+06
1/10	-1.57E+05	-1.33E+06	6.90E+05	-1.32E+06	6.88E+05	-1.16E+07	8.45E+06

Table Q-1726. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-4.86E+04	-2.10E+05	9.04E+04	-2.10E+05	7.49E+04	-9.67E+06	7.41E+06
1/20	-1.49E+05	-5.39E+05	2.30E+05	-5.37E+05	1.44E+05	-7.77E+06	5.85E+06
1/15	-1.90E+05	-7.88E+05	2.64E+05	-7.48E+05	2.11E+05	-8.38E+06	6.02E+06
1/10	-1.24E+05	-3.62E+06	5.14E+06	-1.16E+06	1.39E+06	-1.04E+07	1.51E+07

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1727. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1728. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.86E+03	-9.85E+04	1.09E+05	-8.95E+04	8.77E+04	-5.48E+06	5.15E+06
1/20	-7.38E+04	-4.26E+05	2.25E+05	-2.91E+05	1.44E+05	-4.35E+06	4.36E+06
1/15	-1.68E+04	-2.85E+05	6.04E+05	-1.46E+05	1.92E+05	-1.94E+06	3.13E+06
1/10	—	—	—	—	—	—	—



# TASK 2/DIFFRACTION/MODEL 5613

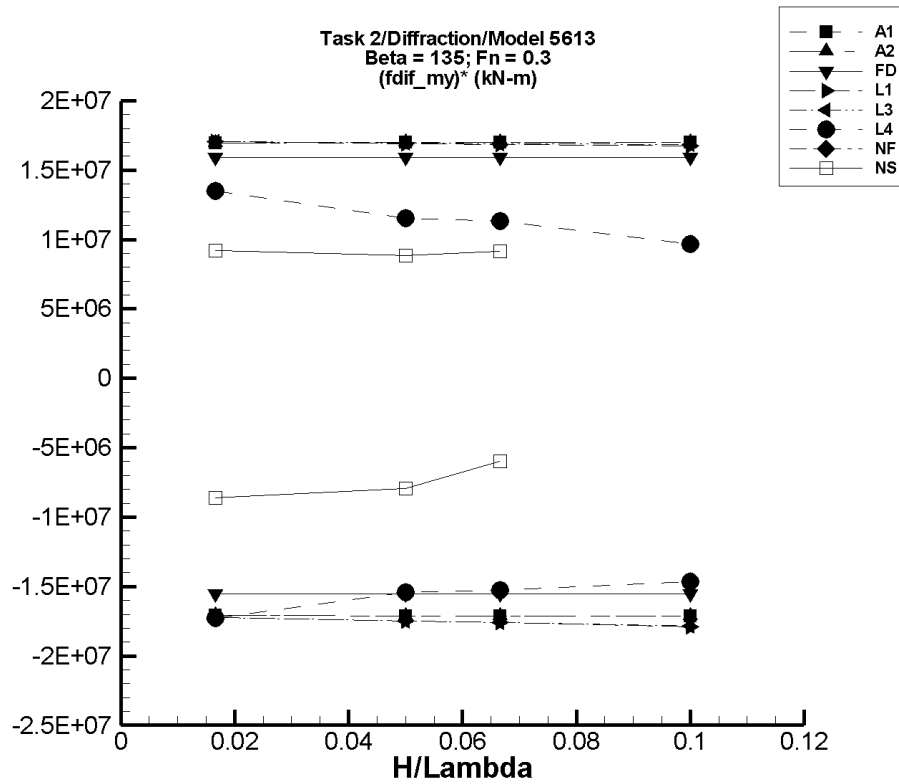


Figure Q-217. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1729. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-188.	-2.93E+05	2.89E+05	-2.85E+05	2.82E+05	-1.71E+07	1.69E+07
1/20	-565.	-8.80E+05	8.68E+05	-8.56E+05	8.49E+05	-1.71E+07	1.70E+07
1/15	-754.	-1.17E+06	1.16E+06	-1.14E+06	1.13E+06	-1.71E+07	1.70E+07
1/10	-1.13E+03	-1.76E+06	1.74E+06	-1.71E+06	1.70E+06	-1.71E+07	1.70E+07

Table Q-1730. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-188.	-2.93E+05	2.89E+05	-2.85E+05	2.82E+05	-1.71E+07	1.69E+07
1/20	-565.	-8.80E+05	8.68E+05	-8.56E+05	8.49E+05	-1.71E+07	1.70E+07
1/15	-754.	-1.17E+06	1.16E+06	-1.14E+06	1.13E+06	-1.71E+07	1.70E+07
1/10	-1.13E+03	-1.76E+06	1.74E+06	-1.71E+06	1.70E+06	-1.71E+07	1.70E+07

Table Q-1731. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.91	-2.65E+05	2.65E+05	-2.59E+05	2.65E+05	-1.55E+07	1.59E+07
1/20	29.8	-7.95E+05	7.94E+05	-7.76E+05	7.95E+05	-1.55E+07	1.59E+07
1/15	39.7	-1.06E+06	1.06E+06	-1.03E+06	1.06E+06	-1.55E+07	1.59E+07
1/10	59.5	-1.59E+06	1.59E+06	-1.55E+06	1.59E+06	-1.55E+07	1.59E+07

Table Q-1732. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.39E+04	-3.04E+05	2.73E+05	-3.01E+05	2.70E+05	-1.72E+07	1.70E+07
1/20	-3.96E+04	-9.22E+05	8.11E+05	-9.14E+05	8.04E+05	-1.75E+07	1.69E+07
1/15	-6.20E+04	-1.25E+06	1.07E+06	-1.24E+06	1.06E+06	-1.76E+07	1.68E+07
1/10	-1.26E+05	-1.93E+06	1.56E+06	-1.92E+06	1.55E+06	-1.79E+07	1.67E+07

Table Q-1733. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.39E+04	-3.04E+05	2.73E+05	-3.01E+05	2.71E+05	-1.72E+07	1.71E+07
1/20	-3.96E+04	-9.21E+05	8.14E+05	-9.13E+05	8.08E+05	-1.75E+07	1.69E+07
1/15	-6.20E+04	-1.25E+06	1.07E+06	-1.23E+06	1.06E+06	-1.76E+07	1.69E+07
1/10	-1.26E+05	-1.93E+06	1.57E+06	-1.91E+06	1.56E+06	-1.79E+07	1.68E+07

Table Q-1734. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.84E+04	-3.49E+05	1.69E+05	-3.46E+05	1.67E+05	-1.73E+07	1.35E+07
1/20	-2.07E+05	-9.83E+05	3.88E+05	-9.77E+05	3.69E+05	-1.54E+07	1.15E+07
1/15	-2.71E+05	-1.31E+06	5.56E+05	-1.29E+06	4.82E+05	-1.53E+07	1.13E+07
1/10	-2.88E+05	-2.42E+06	7.94E+05	-1.76E+06	6.80E+05	-1.47E+07	9.69E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1735. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1736. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.32E+03	-1.40E+05	1.63E+05	-1.36E+05	1.61E+05	-8.60E+06	9.19E+06
1/20	-4.94E+04	-5.08E+05	6.76E+05	-4.47E+05	3.93E+05	-7.94E+06	8.84E+06
1/15	4.04E+04	-3.76E+05	1.04E+06	-3.58E+05	6.50E+05	-5.97E+06	9.15E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

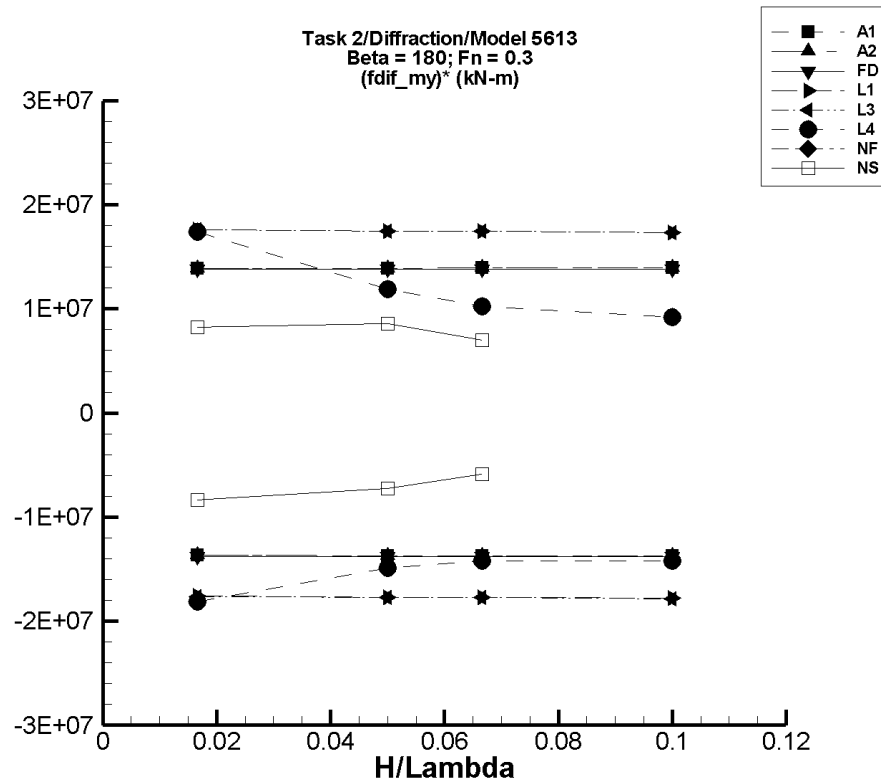


Figure Q-218. Minimum and maximum of filtered  $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

Table Q-1737. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.02E+03	-2.37E+05	2.42E+05	-2.30E+05	2.29E+05	-1.37E+07	1.39E+07
1/20	-6.06E+03	-7.12E+05	7.27E+05	-6.91E+05	6.89E+05	-1.37E+07	1.39E+07
1/15	-8.09E+03	-9.51E+05	9.70E+05	-9.22E+05	9.20E+05	-1.37E+07	1.39E+07
1/10	-1.21E+04	-1.43E+06	1.46E+06	-1.38E+06	1.38E+06	-1.37E+07	1.39E+07

Table Q-1738. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.02E+03	-2.37E+05	2.42E+05	-2.30E+05	2.29E+05	-1.37E+07	1.39E+07
1/20	-6.06E+03	-7.12E+05	7.27E+05	-6.91E+05	6.89E+05	-1.37E+07	1.39E+07
1/15	-8.09E+03	-9.51E+05	9.70E+05	-9.22E+05	9.20E+05	-1.37E+07	1.39E+07
1/10	-1.21E+04	-1.43E+06	1.46E+06	-1.38E+06	1.38E+06	-1.37E+07	1.39E+07

Table Q-1739. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-120.	-2.38E+05	2.38E+05	-2.30E+05	2.30E+05	-1.38E+07	1.38E+07
1/20	-359.	-7.13E+05	7.13E+05	-6.91E+05	6.91E+05	-1.38E+07	1.38E+07
1/15	-479.	-9.51E+05	9.50E+05	-9.21E+05	9.22E+05	-1.38E+07	1.38E+07
1/10	-719.	-1.43E+06	1.43E+06	-1.38E+06	1.38E+06	-1.38E+07	1.38E+07

Table Q-1740. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.25E+04	-3.09E+05	2.83E+05	-3.06E+05	2.80E+05	-1.76E+07	1.76E+07
1/20	-2.54E+04	-9.20E+05	8.58E+05	-9.10E+05	8.49E+05	-1.77E+07	1.75E+07
1/15	-3.65E+04	-1.23E+06	1.14E+06	-1.22E+06	1.13E+06	-1.77E+07	1.74E+07
1/10	-6.80E+04	-1.87E+06	1.68E+06	-1.85E+06	1.67E+06	-1.78E+07	1.74E+07



Table Q-1741. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.25E+04	-3.09E+05	2.84E+05	-3.06E+05	2.80E+05	-1.76E+07	1.76E+07
1/20	-2.54E+04	-9.21E+05	8.58E+05	-9.11E+05	8.49E+05	-1.77E+07	1.75E+07
1/15	-3.64E+04	-1.23E+06	1.14E+06	-1.22E+06	1.13E+06	-1.77E+07	1.74E+07
1/10	-6.79E+04	-1.87E+06	1.69E+06	-1.85E+06	1.67E+06	-1.78E+07	1.74E+07

Table Q-1742. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.22E+04	-3.84E+05	2.46E+05	-3.64E+05	2.27E+05	-1.81E+07	1.74E+07
1/20	-2.19E+05	-9.84E+05	5.43E+05	-9.64E+05	3.75E+05	-1.49E+07	1.19E+07
1/15	-2.80E+05	-1.25E+06	4.98E+05	-1.23E+06	4.00E+05	-1.42E+07	1.02E+07
1/10	-3.64E+05	-2.54E+06	7.21E+05	-1.78E+06	5.59E+05	-1.42E+07	9.22E+06

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1743. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1744. Minimum and Maximum of Variables  $M_y^{\text{dif}}$  and  $(M_y^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_y^{\text{dif}} \rangle$	Unfiltered $M_y^{\text{dif}}$		Filtered $M_y^{\text{dif}}$		Filtered $(M_y^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.49E+03	-1.39E+05	1.43E+05	-1.36E+05	1.39E+05	-8.33E+06	8.21E+06
1/20	-4.51E+04	-4.18E+05	5.38E+05	-4.09E+05	3.83E+05	-7.27E+06	8.57E+06
1/15	3.22E+04	-3.73E+05	1.17E+06	-3.58E+05	5.00E+05	-5.86E+06	7.02E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

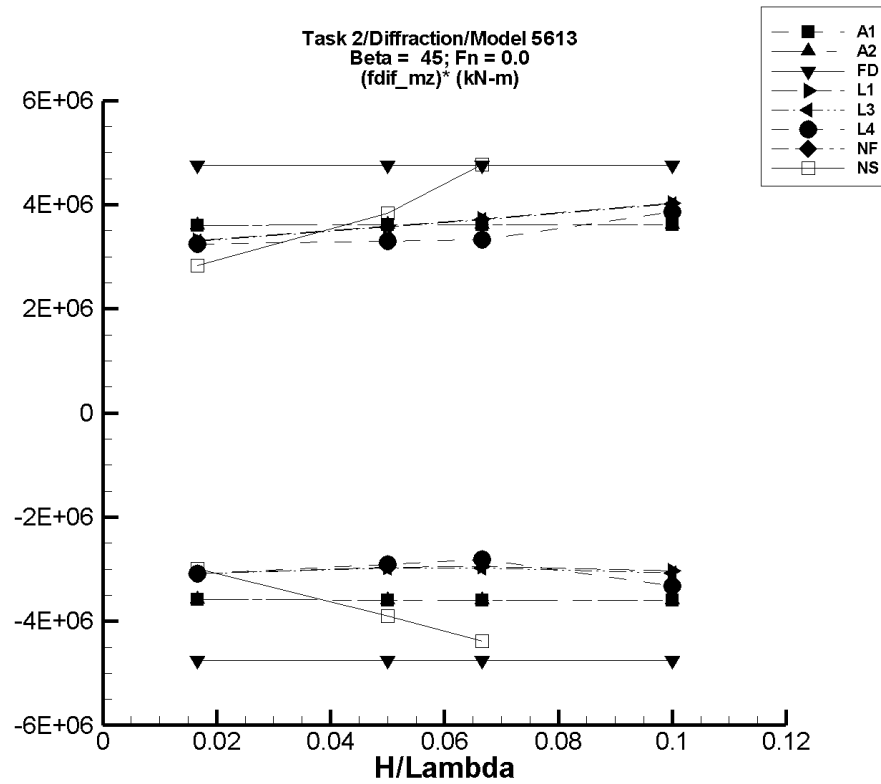


Figure Q-219. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1745. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-117.	-6.05E+04	6.06E+04	-5.98E+04	5.99E+04	-3.58E+06	3.60E+06
1/20	-353.	-1.82E+05	1.82E+05	-1.80E+05	1.80E+05	-3.59E+06	3.61E+06
1/15	-472.	-2.43E+05	2.43E+05	-2.40E+05	2.41E+05	-3.60E+06	3.62E+06
1/10	-708.	-3.64E+05	3.65E+05	-3.60E+05	3.61E+05	-3.60E+06	3.62E+06

Table Q-1746. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-117.	-6.05E+04	6.06E+04	-5.98E+04	5.99E+04	-3.58E+06	3.60E+06
1/20	-353.	-1.82E+05	1.82E+05	-1.80E+05	1.80E+05	-3.59E+06	3.61E+06
1/15	-472.	-2.43E+05	2.43E+05	-2.40E+05	2.41E+05	-3.60E+06	3.62E+06
1/10	-708.	-3.64E+05	3.65E+05	-3.60E+05	3.61E+05	-3.60E+06	3.62E+06

Table Q-1747. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	33.0	-8.00E+04	8.00E+04	-7.92E+04	7.92E+04	-4.75E+06	4.75E+06
1/20	98.9	-2.40E+05	2.40E+05	-2.38E+05	2.38E+05	-4.75E+06	4.75E+06
1/15	132.	-3.20E+05	3.20E+05	-3.17E+05	3.17E+05	-4.75E+06	4.75E+06
1/10	198.	-4.80E+05	4.80E+05	-4.75E+05	4.75E+05	-4.75E+06	4.75E+06

Table Q-1748. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.94E+03	-5.45E+04	5.24E+04	-5.44E+04	5.22E+04	-3.08E+06	3.31E+06
1/20	-2.67E+04	-1.75E+05	1.53E+05	-1.75E+05	1.52E+05	-2.96E+06	3.58E+06
1/15	-4.75E+04	-2.45E+05	2.03E+05	-2.44E+05	2.01E+05	-2.95E+06	3.73E+06
1/10	-1.07E+05	-4.12E+05	2.99E+05	-4.11E+05	2.96E+05	-3.04E+06	4.03E+06

Table Q-1749. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.94E+03	-5.46E+04	5.23E+04	-5.44E+04	5.21E+04	-3.09E+06	3.30E+06
1/20	-2.67E+04	-1.76E+05	1.53E+05	-1.76E+05	1.52E+05	-2.98E+06	3.57E+06
1/15	-4.75E+04	-2.47E+05	2.02E+05	-2.46E+05	2.00E+05	-2.98E+06	3.72E+06
1/10	-1.07E+05	-4.16E+05	2.97E+05	-4.14E+05	2.95E+05	-3.07E+06	4.02E+06

Table Q–1750. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-1.50E+03	-5.51E+04	5.61E+04	-5.29E+04	5.27E+04	-3.08E+06	3.25E+06
1/20	-1.26E+04	-1.91E+05	1.68E+05	-1.58E+05	1.53E+05	-2.91E+06	3.31E+06
1/15	-1.59E+04	-2.75E+05	2.49E+05	-2.03E+05	2.06E+05	-2.81E+06	3.33E+06
1/10	-5.58E+04	-4.16E+05	4.23E+05	-3.88E+05	3.31E+05	-3.32E+06	3.87E+06

Table Q–1751. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1752. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-739.	-5.12E+04	4.70E+04	-5.06E+04	4.64E+04	-2.99E+06	2.83E+06
1/20	-4.52E+03	-2.08E+05	2.10E+05	-2.00E+05	1.87E+05	-3.90E+06	3.83E+06
1/15	-3.94E+03	-3.31E+05	3.42E+05	-2.96E+05	3.14E+05	-4.38E+06	4.77E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

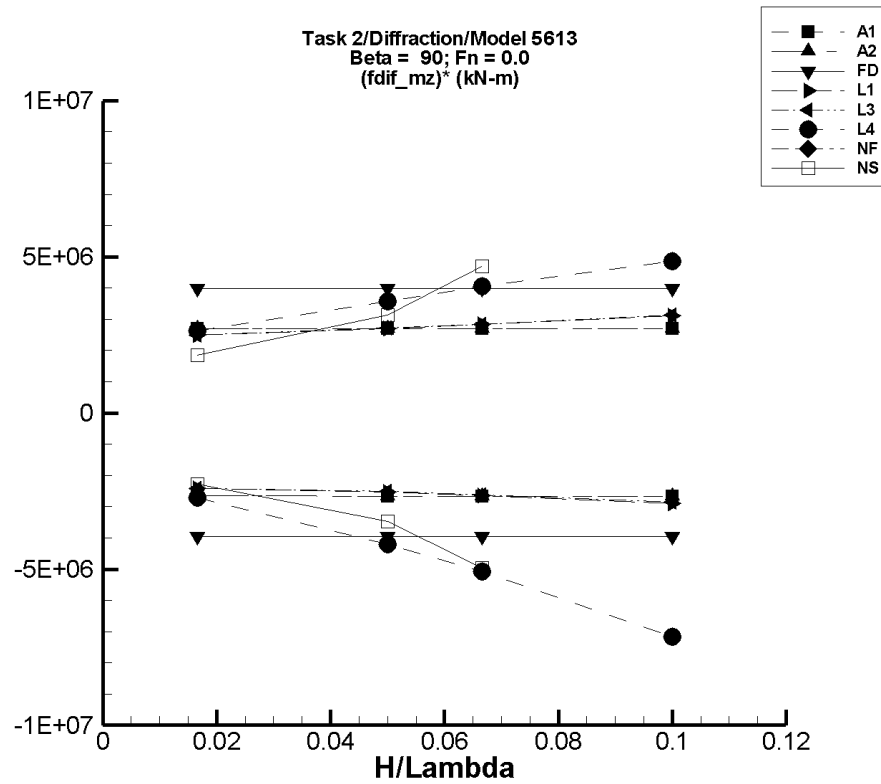


Figure Q-220. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



TASK 2/DIFFRACTION/MODEL 5613

Table Q-1753. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-44.3	-4.50E+04	4.50E+04	-4.43E+04	4.49E+04	-2.65E+06	2.70E+06
1/20	-133.	-1.35E+05	1.35E+05	-1.33E+05	1.35E+05	-2.66E+06	2.70E+06
1/15	-178.	-1.81E+05	1.81E+05	-1.78E+05	1.80E+05	-2.66E+06	2.71E+06
1/10	-267.	-2.71E+05	2.71E+05	-2.67E+05	2.70E+05	-2.66E+06	2.71E+06

Table Q-1754. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-44.3	-4.50E+04	4.50E+04	-4.43E+04	4.49E+04	-2.65E+06	2.70E+06
1/20	-133.	-1.35E+05	1.35E+05	-1.33E+05	1.35E+05	-2.66E+06	2.70E+06
1/15	-178.	-1.81E+05	1.81E+05	-1.78E+05	1.80E+05	-2.66E+06	2.71E+06
1/10	-267.	-2.71E+05	2.71E+05	-2.67E+05	2.70E+05	-2.66E+06	2.71E+06

Table Q-1755. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-19.3	-6.66E+04	6.66E+04	-6.59E+04	6.64E+04	-3.96E+06	3.99E+06
1/20	-58.0	-2.00E+05	2.00E+05	-1.98E+05	1.99E+05	-3.96E+06	3.99E+06
1/15	-77.3	-2.67E+05	2.67E+05	-2.64E+05	2.66E+05	-3.96E+06	3.99E+06
1/10	-116.	-4.00E+05	4.00E+05	-3.96E+05	3.98E+05	-3.96E+06	3.99E+06

Table Q-1756. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	-1.45E+03	-4.20E+04	4.02E+04	-4.18E+04	4.01E+04	-2.42E+06	2.49E+06
1/20	-1.29E+04	-1.40E+05	1.23E+05	-1.40E+05	1.22E+05	-2.54E+06	2.70E+06
1/15	-2.30E+04	-2.00E+05	1.67E+05	-1.99E+05	1.66E+05	-2.64E+06	2.83E+06
1/10	-5.17E+04	-3.43E+05	2.62E+05	-3.41E+05	2.60E+05	-2.89E+06	3.12E+06

Table Q-1757. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	-1.45E+03	-4.19E+04	4.03E+04	-4.17E+04	4.02E+04	-2.42E+06	2.50E+06
1/20	-1.29E+04	-1.39E+05	1.23E+05	-1.39E+05	1.23E+05	-2.52E+06	2.71E+06
1/15	-2.30E+04	-1.98E+05	1.68E+05	-1.97E+05	1.67E+05	-2.62E+06	2.84E+06
1/10	-5.17E+04	-3.40E+05	2.64E+05	-3.38E+05	2.62E+05	-2.86E+06	3.14E+06

Table Q–1758. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-2.69E+03	-5.26E+04	4.27E+04	-4.80E+04	4.11E+04	-2.72E+06	2.62E+06
1/20	-1.00E+04	-2.66E+05	2.07E+05	-2.20E+05	1.68E+05	-4.20E+06	3.57E+06
1/15	-9.09E+03	-3.73E+05	3.08E+05	-3.48E+05	2.62E+05	-5.08E+06	4.06E+06
1/10	-8.63E+03	-7.71E+05	6.41E+05	-7.26E+05	4.78E+05	-7.17E+06	4.87E+06

Table Q–1759. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1760. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.03E+03	-4.17E+04	3.12E+04	-3.91E+04	2.98E+04	-2.28E+06	1.85E+06
1/20	-5.52E+03	-2.00E+05	2.04E+05	-1.80E+05	1.51E+05	-3.48E+06	3.13E+06
1/15	-1.31E+03	-3.46E+05	3.42E+05	-3.32E+05	3.11E+05	-4.97E+06	4.69E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

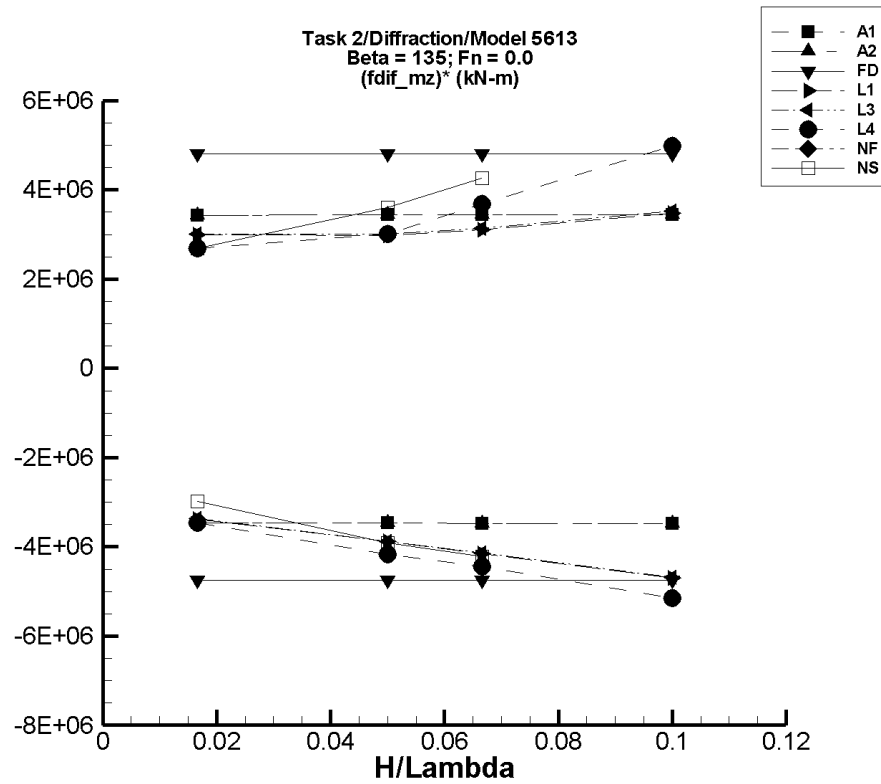


Figure Q-221. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1761. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	141.	-5.82E+04	5.80E+04	-5.75E+04	5.73E+04	-3.46E+06	3.43E+06
1/20	425.	-1.75E+05	1.74E+05	-1.73E+05	1.72E+05	-3.47E+06	3.44E+06
1/15	567.	-2.34E+05	2.33E+05	-2.31E+05	2.30E+05	-3.47E+06	3.45E+06
1/10	850.	-3.51E+05	3.49E+05	-3.46E+05	3.45E+05	-3.47E+06	3.45E+06

Table Q-1762. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	141.	-5.82E+04	5.80E+04	-5.75E+04	5.73E+04	-3.46E+06	3.43E+06
1/20	425.	-1.75E+05	1.74E+05	-1.73E+05	1.72E+05	-3.47E+06	3.44E+06
1/15	567.	-2.34E+05	2.33E+05	-2.31E+05	2.30E+05	-3.47E+06	3.45E+06
1/10	850.	-3.51E+05	3.49E+05	-3.46E+05	3.45E+05	-3.47E+06	3.45E+06

Table Q-1763. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-24.3	-8.00E+04	8.00E+04	-7.92E+04	8.00E+04	-4.75E+06	4.80E+06
1/20	-72.8	-2.40E+05	2.40E+05	-2.38E+05	2.40E+05	-4.75E+06	4.80E+06
1/15	-97.0	-3.20E+05	3.20E+05	-3.17E+05	3.20E+05	-4.75E+06	4.80E+06
1/10	-146.	-4.80E+05	4.80E+05	-4.75E+05	4.80E+05	-4.75E+06	4.80E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1764. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.67E+03	-5.49E+04	5.18E+04	-5.47E+04	5.16E+04	-3.38E+06	3.00E+06
1/20	1.51E+04	-1.80E+05	1.65E+05	-1.79E+05	1.64E+05	-3.89E+06	2.98E+06
1/15	2.69E+04	-2.52E+05	2.35E+05	-2.50E+05	2.34E+05	-4.15E+06	3.10E+06
1/10	6.04E+04	-4.14E+05	4.11E+05	-4.10E+05	4.08E+05	-4.70E+06	3.48E+06

Table Q-1765. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

LAMP-3							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.67E+03	-5.48E+04	5.20E+04	-5.45E+04	5.18E+04	-3.37E+06	3.01E+06
1/20	1.51E+04	-1.80E+05	1.66E+05	-1.79E+05	1.66E+05	-3.87E+06	3.01E+06
1/15	2.68E+04	-2.51E+05	2.37E+05	-2.49E+05	2.36E+05	-4.14E+06	3.14E+06
1/10	6.04E+04	-4.12E+05	4.15E+05	-4.08E+05	4.13E+05	-4.69E+06	3.52E+06

Table Q-1766. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	970.	-6.20E+04	4.82E+04	-5.66E+04	4.57E+04	-3.46E+06	2.68E+06
1/20	6.30E+03	-2.37E+05	1.75E+05	-2.03E+05	1.57E+05	-4.18E+06	3.01E+06
1/15	1.19E+04	-3.34E+05	4.82E+05	-2.85E+05	2.57E+05	-4.45E+06	3.68E+06
1/10	5.44E+04	-5.09E+05	5.60E+05	-4.61E+05	5.53E+05	-5.16E+06	4.98E+06

Table Q-1767. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—



Table Q-1768. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-605.	-5.09E+04	4.50E+04	-5.04E+04	4.41E+04	-2.99E+06	2.69E+06
1/20	-2.96E+03	-2.07E+05	2.04E+05	-1.99E+05	1.78E+05	-3.91E+06	3.61E+06
1/15	-548.	-2.89E+05	3.18E+05	-2.81E+05	2.84E+05	-4.21E+06	4.27E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

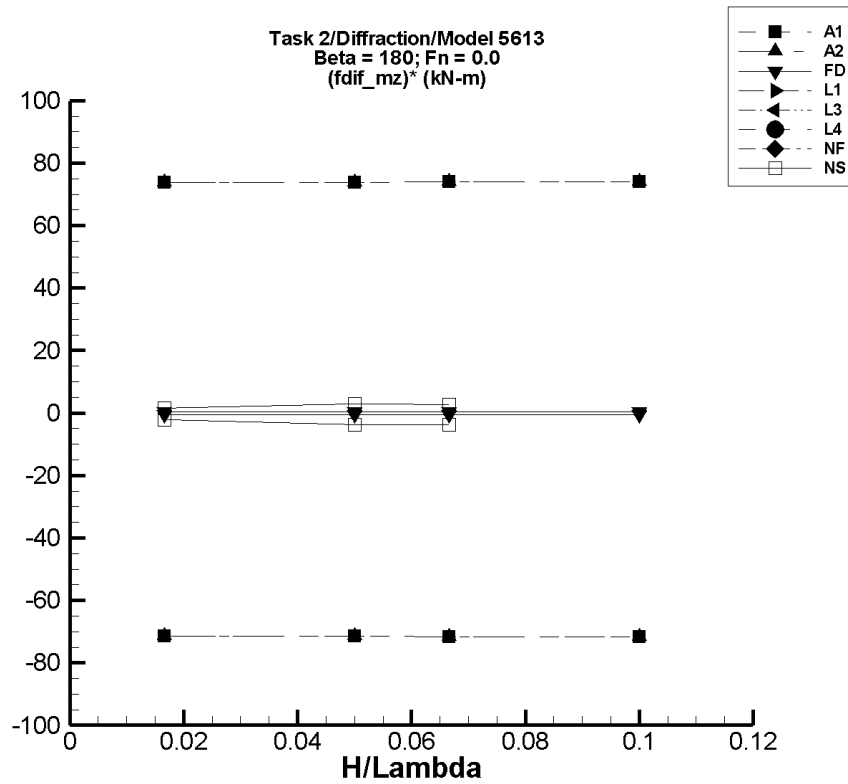


Figure Q-222. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.0$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1769. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.12E-03	-1.20	1.24	-1.19	1.23	-71.3	73.7
1/20	3.38E-03	-3.60	3.73	-3.57	3.70	-71.5	73.9
1/15	4.51E-03	-4.81	4.97	-4.77	4.94	-71.6	74.0
1/10	6.77E-03	-7.21	7.46	-7.15	7.41	-71.6	74.0

Table Q–1770. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.12E-03	-1.20	1.24	-1.19	1.23	-71.3	73.7
1/20	3.38E-03	-3.60	3.73	-3.57	3.70	-71.5	73.9
1/15	4.51E-03	-4.81	4.97	-4.77	4.94	-71.6	74.0
1/10	6.77E-03	-7.21	7.46	-7.15	7.41	-71.6	74.0

Table Q–1771. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.08E-06	-8.28E-03	8.28E-03	-8.21E-03	8.20E-03	-0.492	0.492
1/20	3.23E-06	-2.49E-02	2.49E-02	-2.46E-02	2.46E-02	-0.492	0.492
1/15	4.31E-06	-3.31E-02	3.31E-02	-3.28E-02	3.28E-02	-0.492	0.492
1/10	6.46E-06	-4.97E-02	4.97E-02	-4.92E-02	4.92E-02	-0.492	0.492

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1772. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1773. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1774. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1775. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1776. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.0$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	3.16E-03	-9.67E-02	5.95E-02	-3.28E-02	2.77E-02	-2.16	1.47
1/20	-2.23E-03	-0.349	0.519	-0.185	0.146	-3.66	2.96
1/15	2.12E-03	-3.04	2.89	-0.243	0.187	-3.67	2.77
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

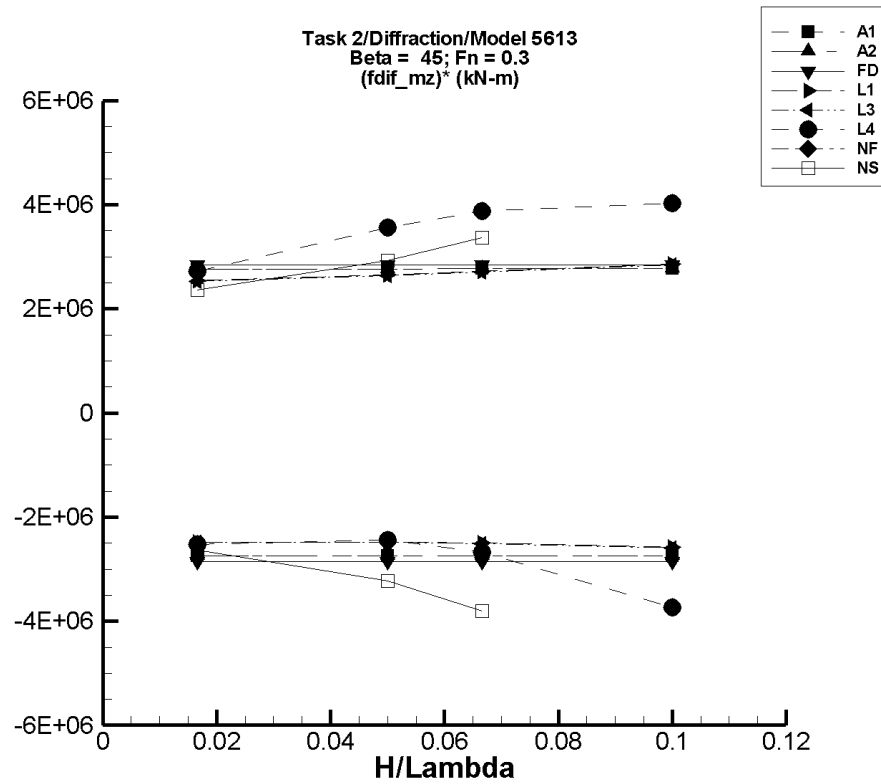


Figure Q-223. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 45^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1777. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	7.38	-4.80E+04	4.71E+04	-4.57E+04	4.60E+04	-2.74E+06	2.76E+06
1/20	22.2	-1.44E+05	1.42E+05	-1.37E+05	1.38E+05	-2.75E+06	2.77E+06
1/15	29.6	-1.93E+05	1.89E+05	-1.83E+05	1.85E+05	-2.75E+06	2.77E+06
1/10	44.4	-2.89E+05	2.84E+05	-2.75E+05	2.77E+05	-2.75E+06	2.77E+06

Table Q-1778. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	7.38	-4.80E+04	4.71E+04	-4.57E+04	4.60E+04	-2.74E+06	2.76E+06
1/20	22.2	-1.44E+05	1.42E+05	-1.37E+05	1.38E+05	-2.75E+06	2.77E+06
1/15	29.6	-1.93E+05	1.89E+05	-1.83E+05	1.85E+05	-2.75E+06	2.77E+06
1/10	44.4	-2.89E+05	2.84E+05	-2.75E+05	2.77E+05	-2.75E+06	2.77E+06

Table Q-1779. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	10.4	-4.76E+04	4.76E+04	-4.75E+04	4.75E+04	-2.85E+06	2.85E+06
1/20	31.1	-1.43E+05	1.43E+05	-1.42E+05	1.42E+05	-2.85E+06	2.85E+06
1/15	41.5	-1.90E+05	1.90E+05	-1.90E+05	1.90E+05	-2.85E+06	2.85E+06
1/10	62.2	-2.86E+05	2.86E+05	-2.85E+05	2.85E+05	-2.85E+06	2.85E+06

Table Q-1780. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	-31.7	-4.14E+04	4.24E+04	-4.14E+04	4.23E+04	-2.48E+06	2.54E+06
1/20	-284.	-1.24E+05	1.32E+05	-1.24E+05	1.32E+05	-2.48E+06	2.65E+06
1/15	-507.	-1.67E+05	1.81E+05	-1.67E+05	1.80E+05	-2.50E+06	2.71E+06
1/10	-1.14E+03	-2.59E+05	2.85E+05	-2.59E+05	2.85E+05	-2.58E+06	2.86E+06

Table Q-1781. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$M_z^{\text{dif}}$ <b>Max.</b> (kN-m)	<b>Filtered</b> <b>Min.</b> (kN-m)	$(M_z^{\text{dif}})^*$ <b>Max.</b> (kN-m)
1/60	-30.8	-4.14E+04	4.23E+04	-4.13E+04	4.22E+04	-2.48E+06	2.54E+06
1/20	-281.	-1.24E+05	1.32E+05	-1.24E+05	1.32E+05	-2.48E+06	2.64E+06
1/15	-503.	-1.68E+05	1.80E+05	-1.67E+05	1.80E+05	-2.50E+06	2.70E+06
1/10	-1.14E+03	-2.60E+05	2.84E+05	-2.60E+05	2.84E+05	-2.59E+06	2.85E+06



Table Q–1782. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.48E+03	-3.84E+04	6.64E+04	-3.57E+04	5.17E+04	-2.53E+06	2.72E+06
1/20	5.59E+04	-6.99E+04	3.09E+05	-6.64E+04	2.34E+05	-2.45E+06	3.55E+06
1/15	9.34E+04	-1.71E+05	4.53E+05	-8.47E+04	3.52E+05	-2.67E+06	3.87E+06
1/10	1.70E+05	-6.51E+05	6.56E+05	-2.04E+05	5.73E+05	-3.74E+06	4.03E+06

Table Q–1783. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q-1784. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 45^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Max. (kN-m)
1/60	-5.17E+03	-4.97E+04	3.44E+04	-4.91E+04	3.41E+04	-2.64E+06	2.36E+06
1/20	-5.27E+04	-2.24E+05	9.33E+04	-2.14E+05	9.36E+04	-3.23E+06	2.93E+06
1/15	-9.38E+04	-3.64E+05	1.47E+05	-3.48E+05	1.31E+05	-3.81E+06	3.37E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

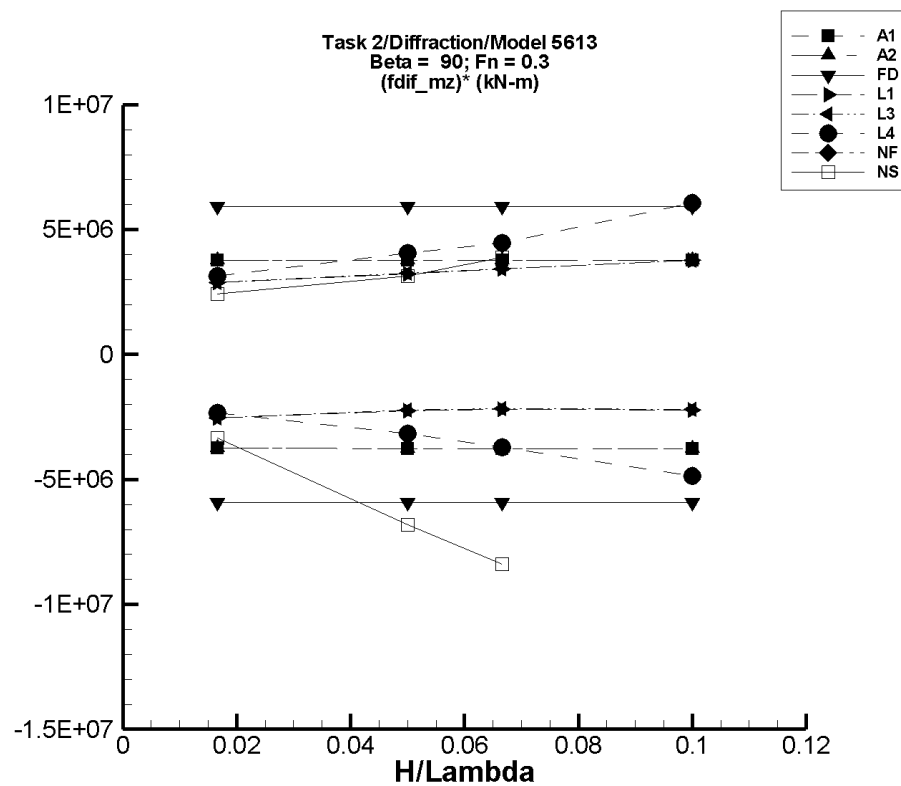


Figure Q-224. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 90^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1785. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-61.3	-6.32E+04	6.33E+04	-6.26E+04	6.27E+04	-3.75E+06	3.76E+06
1/20	-184.	-1.90E+05	1.90E+05	-1.88E+05	1.89E+05	-3.76E+06	3.77E+06
1/15	-246.	-2.54E+05	2.54E+05	-2.51E+05	2.52E+05	-3.77E+06	3.78E+06
1/10	-369.	-3.81E+05	3.81E+05	-3.77E+05	3.78E+05	-3.77E+06	3.78E+06

Table Q-1786. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-61.3	-6.32E+04	6.33E+04	-6.26E+04	6.27E+04	-3.75E+06	3.76E+06
1/20	-184.	-1.90E+05	1.90E+05	-1.88E+05	1.89E+05	-3.76E+06	3.77E+06
1/15	-246.	-2.54E+05	2.54E+05	-2.51E+05	2.52E+05	-3.77E+06	3.78E+06
1/10	-369.	-3.81E+05	3.81E+05	-3.77E+05	3.78E+05	-3.77E+06	3.78E+06

Table Q-1787. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case  
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  
 $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-0.922	-9.99E+04	9.99E+04	-9.89E+04	9.89E+04	-5.93E+06	5.93E+06
1/20	-2.75	-3.00E+05	3.00E+05	-2.97E+05	2.97E+05	-5.93E+06	5.93E+06
1/15	-3.69	-4.00E+05	4.00E+05	-3.95E+05	3.95E+05	-5.93E+06	5.93E+06
1/10	-5.51	-5.99E+05	5.99E+05	-5.93E+05	5.93E+05	-5.93E+06	5.93E+06

Table Q-1788. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.61E+03	-4.09E+04	5.00E+04	-4.08E+04	4.98E+04	-2.54E+06	2.89E+06
1/20	1.46E+04	-9.84E+04	1.78E+05	-9.81E+04	1.77E+05	-2.26E+06	3.24E+06
1/15	2.61E+04	-1.20E+05	2.55E+05	-1.20E+05	2.54E+05	-2.19E+06	3.42E+06
1/10	5.87E+04	-1.66E+05	4.39E+05	-1.65E+05	4.36E+05	-2.23E+06	3.77E+06

Table Q-1789. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.61E+03	-4.08E+04	5.00E+04	-4.07E+04	4.98E+04	-2.54E+06	2.89E+06
1/20	1.47E+04	-9.74E+04	1.78E+05	-9.72E+04	1.77E+05	-2.24E+06	3.24E+06
1/15	2.61E+04	-1.18E+05	2.55E+05	-1.18E+05	2.54E+05	-2.16E+06	3.42E+06
1/10	5.87E+04	-1.62E+05	4.39E+05	-1.60E+05	4.36E+05	-2.19E+06	3.78E+06

Table Q–1790. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	8.72E+03	-3.59E+04	6.19E+04	-3.02E+04	6.09E+04	-2.34E+06	3.13E+06
1/20	7.19E+04	-1.15E+05	2.82E+05	-8.65E+04	2.74E+05	-3.17E+06	4.04E+06
1/15	1.17E+05	-1.64E+05	4.27E+05	-1.30E+05	4.15E+05	-3.70E+06	4.47E+06
1/10	2.15E+05	-2.93E+05	1.17E+06	-2.70E+05	8.21E+05	-4.85E+06	6.06E+06

Table Q–1791. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to  $L = 154$  m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

<b>NFA</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ <b>Mean</b> (kN-m)	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
		<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1792. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 90^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
		Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.23E+04	-7.20E+04	2.85E+04	-6.82E+04	2.79E+04	-3.35E+06	2.41E+06
1/20	-1.04E+05	-5.12E+05	9.27E+04	-4.46E+05	5.27E+04	-6.82E+06	3.14E+06
1/15	-1.56E+05	-7.42E+05	1.54E+05	-7.16E+05	1.04E+05	-8.39E+06	3.90E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

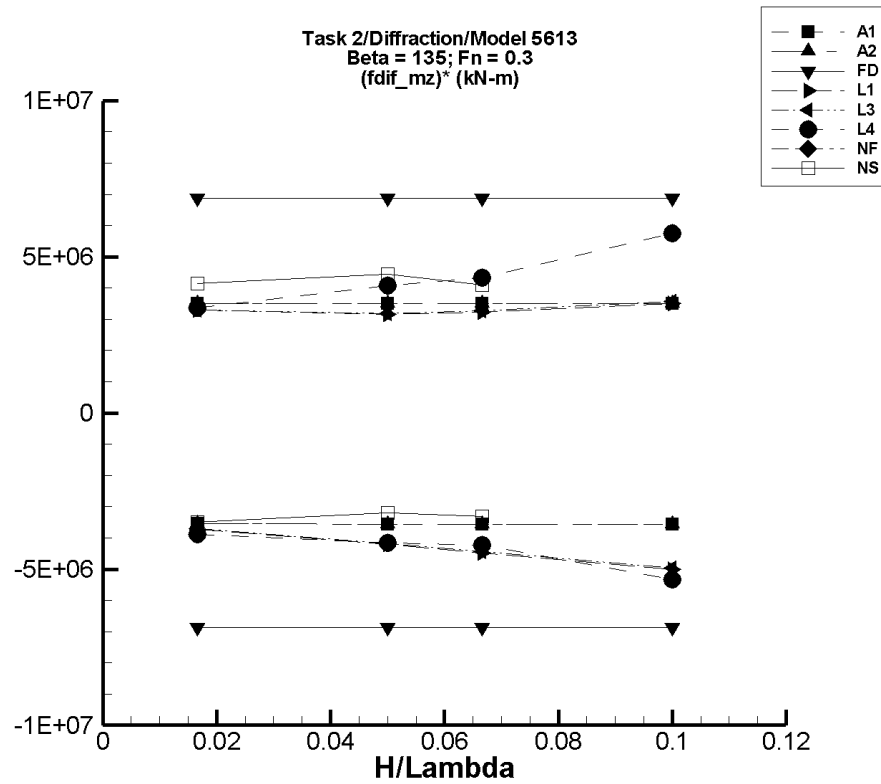


Figure Q-225. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 135^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.



# TASK 2/DIFFRACTION/MODEL 5613

Table Q-1793. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-1							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	57.6	-6.06E+04	5.98E+04	-5.91E+04	5.83E+04	-3.55E+06	3.49E+06
1/20	173.	-1.82E+05	1.80E+05	-1.78E+05	1.75E+05	-3.56E+06	3.50E+06
1/15	231.	-2.43E+05	2.40E+05	-2.37E+05	2.34E+05	-3.56E+06	3.51E+06
1/10	347.	-3.65E+05	3.60E+05	-3.56E+05	3.51E+05	-3.56E+06	3.51E+06

Table Q-1794. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

AEGIR-2							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$M_z^{\text{dif}}$ Max. (kN-m)	Filtered Min. (kN-m)	$(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	57.6	-6.06E+04	5.98E+04	-5.91E+04	5.83E+04	-3.55E+06	3.49E+06
1/20	173.	-1.82E+05	1.80E+05	-1.78E+05	1.75E+05	-3.56E+06	3.50E+06
1/15	231.	-2.43E+05	2.40E+05	-2.37E+05	2.34E+05	-3.56E+06	3.51E+06
1/10	347.	-3.65E+05	3.60E+05	-3.56E+05	3.51E+05	-3.56E+06	3.51E+06

Table Q-1795. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

FREDYN							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.13E-02	-1.17E+05	1.17E+05	-1.15E+05	1.15E+05	-6.87E+06	6.88E+06
1/20	0.165	-3.52E+05	3.52E+05	-3.44E+05	3.44E+05	-6.87E+06	6.88E+06
1/15	0.203	-4.69E+05	4.69E+05	-4.58E+05	4.58E+05	-6.87E+06	6.88E+06
1/10	0.340	-7.04E+05	7.04E+05	-6.87E+05	6.88E+05	-6.87E+06	6.88E+06

Table Q-1796. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

LAMP-1							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.65E+03	-6.09E+04	5.70E+04	-6.03E+04	5.67E+04	-3.72E+06	3.30E+06
1/20	1.48E+04	-1.99E+05	1.74E+05	-1.96E+05	1.73E+05	-4.21E+06	3.16E+06
1/15	2.64E+04	-2.76E+05	2.44E+05	-2.72E+05	2.41E+05	-4.47E+06	3.22E+06
1/10	5.93E+04	-4.49E+05	4.17E+05	-4.41E+05	4.11E+05	-5.00E+06	3.51E+06

Table Q-1797. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
	<b>Mean</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	1.65E+03	-6.04E+04	5.70E+04	-5.99E+04	5.66E+04	-3.69E+06	3.29E+06
1/20	1.48E+04	-1.97E+05	1.76E+05	-1.94E+05	1.74E+05	-4.18E+06	3.19E+06
1/15	2.64E+04	-2.74E+05	2.47E+05	-2.69E+05	2.44E+05	-4.43E+06	3.27E+06
1/10	5.93E+04	-4.45E+05	4.23E+05	-4.36E+05	4.17E+05	-4.96E+06	3.57E+06

Table Q-1798. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	<b>Unfiltered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>M_z^{\text{dif}}</math></b>		<b>Filtered <math>(M_z^{\text{dif}})^*</math></b>	
	<b>Mean</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)	<b>Min.</b> (kN-m)	<b>Max.</b> (kN-m)
1/60	7.61E+03	-6.60E+04	7.25E+04	-5.70E+04	6.37E+04	-3.87E+06	3.37E+06
1/20	6.16E+04	-1.64E+05	4.02E+05	-1.47E+05	2.65E+05	-4.17E+06	4.07E+06
1/15	9.94E+04	-2.09E+05	7.84E+05	-1.83E+05	3.88E+05	-4.23E+06	4.33E+06
1/10	1.98E+05	-4.57E+05	7.93E+05	-3.34E+05	7.72E+05	-5.32E+06	5.74E+06

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1799. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1800. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 135^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-9.83E+03	-6.89E+04	6.09E+04	-6.80E+04	5.91E+04	-3.49E+06	4.14E+06
1/20	-7.86E+04	-2.63E+05	1.75E+05	-2.39E+05	1.44E+05	-3.20E+06	4.45E+06
1/15	-1.21E+05	-4.13E+05	1.60E+05	-3.43E+05	1.52E+05	-3.32E+06	4.10E+06
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

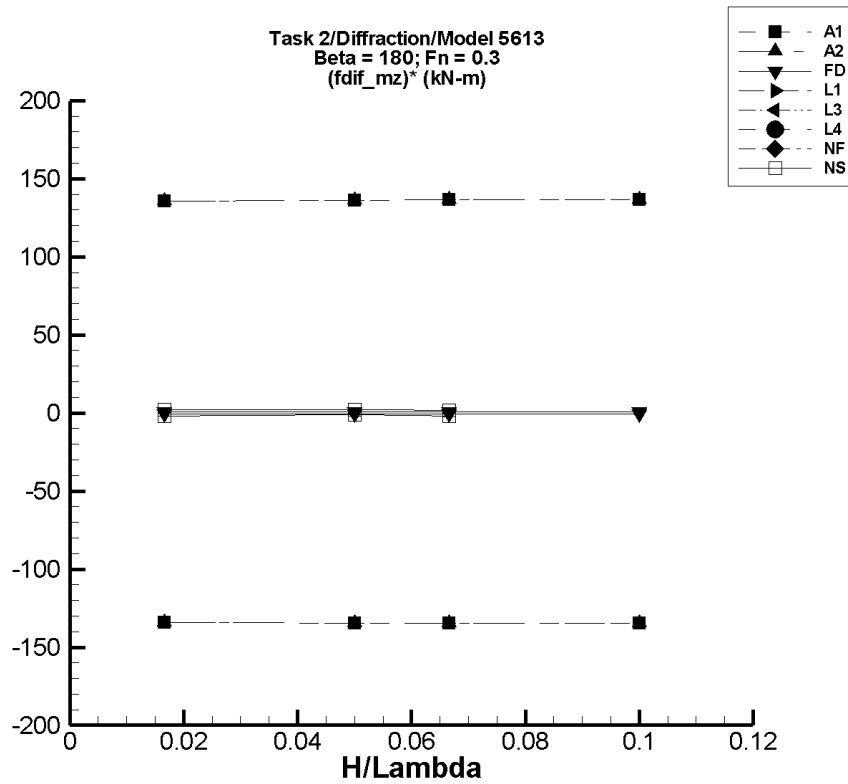


Figure Q-226. Minimum and maximum of filtered  $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$  vs.  $(H/\lambda)$  for  $\beta = 180^\circ$ ,  $F_n = 0.3$  in the case of task 2, diffraction, and Model 5613 scaled to  $L = 154$  m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1801. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.14E-03	-2.31	2.61	-2.24	2.26	-134.	136.
1/20	-3.42E-03	-6.94	7.86	-6.73	6.81	-135.	136.
1/15	-4.57E-03	-9.27	10.5	-8.99	9.09	-135.	136.
1/10	-6.85E-03	-13.9	15.7	-13.5	13.6	-135.	136.

Table Q–1802. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>AEGIR-2</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.14E-03	-2.31	2.61	-2.24	2.26	-134.	136.
1/20	-3.42E-03	-6.94	7.86	-6.73	6.81	-135.	136.
1/15	-4.57E-03	-9.27	10.5	-8.99	9.09	-135.	136.
1/10	-6.85E-03	-13.9	15.7	-13.5	13.6	-135.	136.

Table Q–1803. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>FREDYN</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.40E-06	-1.39E-02	1.39E-02	-1.35E-02	1.35E-02	-0.809	0.808
1/20	4.20E-06	-4.18E-02	4.17E-02	-4.05E-02	4.04E-02	-0.809	0.808
1/15	5.61E-06	-5.57E-02	5.57E-02	-5.39E-02	5.39E-02	-0.809	0.808
1/10	8.41E-06	-8.36E-02	8.35E-02	-8.09E-02	8.08E-02	-0.809	0.808

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1804. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-1</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1805. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-3</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1806. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

<b>LAMP-4</b>							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

# TASK 2/DIFFRACTION/MODEL 5613

Table Q–1807. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NFA							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table Q–1808. Minimum and Maximum of Variables  $M_z^{\text{dif}}$  and  $(M_z^{\text{dif}})^*$  for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,  $\beta = 180^\circ$ ,  $F_n = 0.3$ )

NSHIPMO							
$(H/\lambda)$	$\langle M_z^{\text{dif}} \rangle$	Unfiltered $M_z^{\text{dif}}$		Filtered $M_z^{\text{dif}}$		Filtered $(M_z^{\text{dif}})^*$	
	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.44E-03	-0.423	0.439	-3.93E-02	3.35E-02	-2.15	2.22
1/20	-8.25E-03	-0.473	0.675	-7.28E-02	9.90E-02	-1.29	2.14
1/15	3.89E-03	-1.32	0.631	-0.134	0.127	-2.07	1.85
1/10	—	—	—	—	—	—	—