

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

Appendix F — Time History Plots for Prescribed Pitch Motion of Model 5514

TASK 1/PITCH MOTION/MODEL 5514

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F-117.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-192
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F-123.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-198

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F-124.	Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.	F-198
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F-208.	Minimum and maximum of of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-282
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F-285.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-360
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F-290.	Minimum and maximum of of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-364
F-291.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-366

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F-292.	Minimum and maximum of of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-366
F-293.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-368
F-294.	Minimum and maximum of of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-368
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F-296.	Minimum and maximum of of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-370
F-297.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-372
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F-299.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-374
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F-303.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-378

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F-304.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-378
F-305.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-380
F-306.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-380
F-307.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-382
F-308.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-382
F-309.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-384
F-310.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-384
F-311.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-386
F-312.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-386
F-313.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-388
F-314.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-388
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F-316.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-390
F-317.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-392
F-318.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-392
F-319.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-394
F-320.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-394
F-321.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-396
F-322.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-396
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F-324.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-398
F-325.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-400
F-326.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-400
F-327.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-402

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F-328.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-402
F-329.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-404
F-330.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-404
F-331.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-406
F-332.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-406
F-333.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-408
F-334.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-408
F-335.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-410
F-336.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-410
F-337.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-412
F-338.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-412
F-339.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-414

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- F-340. Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-414
- F-341. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-416
- F-342. Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-416
- F-343. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-418
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- F-345. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-420
- F-346. Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-420
- F-347. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-422
- F-348. Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-422
- F-349. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-424
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F-352.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-426
F-353.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-428
F-354.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-428
F-355.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-430
F-356.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-430
F-357.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-432
F-358.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-432
F-359.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-434
F-360.	Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-434
F-361.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-436
F-362.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-436
F-363.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-438

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F-364.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-438
F-365.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-440
F-366.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-440
F-367.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-442
F-368.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-442
F-369.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-444
F-370.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-444
F-371.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-446
F-372.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-446
F-373.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-448
F-374.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-448
F-375.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-450

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F-376.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-450
F-377.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-452
F-378.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-452
F-379.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-454
F-380.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-454
F-381.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-456
F-382.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-456
F-383.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-458
F-384.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-458
F-385.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-460
F-386.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-460
F-387.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-462

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F-388.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-462
F-389.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-464
F-390.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-464
F-391.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-466
F-392.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-466
F-393.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-468
F-394.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-468
F-395.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-470
F-396.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-470
F-397.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-472
F-398.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-472
F-399.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-474

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F-400.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-474
F-401.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-476
F-402.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-476
F-403.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-478
F-404.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-478
F-405.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-480
F-406.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-480
F-407.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-482
F-408.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-482
F-409.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-484
F-410.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-484
F-411.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-486

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F-412.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-486
F-413.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-488
F-414.	Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-488
F-415.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-490
F-416.	Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-490
F-417.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-492
F-418.	Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-492
F-419.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-494
F-420.	Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-494
F-421.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-496
F-422.	Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-496
F-423.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-498

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F-424.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-498
F-425.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-500
F-426.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-500
F-427.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-502
F-428.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-502
F-429.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-504
F-430.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-504
F-431.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-506
F-432.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-506
F-433.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-508
F-434.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-508
F-435.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-510

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F-436.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-510
F-437.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-512
F-438.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-512
F-439.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-514
F-440.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-514
F-441.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-516
F-442.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-516
F-443.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-518
F-444.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-518
F-445.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-520
F-446.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-520
F-447.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-522

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F-448.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-522
F-449.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-524
F-450.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-524
F-451.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-526
F-452.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-526
F-453.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-528
F-454.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-528
F-455.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-530
F-456.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-530
F-457.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-532
F-458.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-532
F-459.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-534

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F-460.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-534
F-461.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-536
F-462.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-536
F-463.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-538
F-464.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-538
F-465.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-540
F-466.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-540
F-467.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-542
F-468.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-542
F-469.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-544
F-470.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-544
F-471.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-546

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F-472.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-546
F-473.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-548
F-474.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-548
F-475.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-550
F-476.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-550
F-477.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-552
F-478.	Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-552
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F-487.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-562
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F-491.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-566
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F-493.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-568
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F-495.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-570

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- F-496. Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-570
- F-497. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-572
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- F-499. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-574
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- F-502. Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-576
- F-503. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-578
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- F-505. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m. F-580
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F-511.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-586
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F-513.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-588
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F-517.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-592
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F-519.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-594

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F-520.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-594
F-521.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-596
F-522.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-596
F-523.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-598
F-524.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-598
F-525.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-600
F-526.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-600
F-527.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-602
F-528.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-602
F-529.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-604
F-530.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-604
F-531.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-606

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F-532.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-606
F-533.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-608
F-534.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-608
F-535.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-610
F-536.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-610
F-537.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-612
F-538.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-612
F-539.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-614
F-540.	Minimum and maximum of of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-614
F-541.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-616
F-542.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-616
F-543.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-618

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F-544.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-618
F-545.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-620
F-546.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-620
F-547.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-622
F-548.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-622
F-549.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-624
F-550.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-624
F-551.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-626
F-552.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-626
F-553.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-628
F-554.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-628
F-555.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-630

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- F-556. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-630
- F-557. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-632
- F-558. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-632
- F-559. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-634
- F-560. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-634
- F-561. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-636
- F-562. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-636
- F-563. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-638
- F-564. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-638
- F-565. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-640
- F-566. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-640
- F-567. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m. F-642

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F-568.	Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-642
F-569.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-644
F-570.	Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-644
F-571.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-646
F-572.	Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-646
F-573.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-648
F-574.	Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-648
F-575.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-650
F-576.	Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-650
F-577.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-652
F-578.	Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-652
F-579.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-654

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F-580.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-654
F-581.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-656
F-582.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-656
F-583.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-658
F-584.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-658
F-585.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-660
F-586.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-660
F-587.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-662
F-588.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-662
F-589.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-664
F-590.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-664
F-591.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-666

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F-592.	Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-666
F-593.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-668
F-594.	Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-668
F-595.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-670
F-596.	Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-670
F-597.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-672
F-598.	Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-672
F-599.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-674
F-600.	Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.	F-674

Introduction

This appendix contains all the plots and tables for the simulations involving 1-DOF prescribed pitch motion of Model 5514 scaled to the length 142 m. Each of Figures F–1 through F–300 contains time-history plots of the results from all codes for a single variable during one period of motion. If the code runner did not supply the data, the data vanish identically, or the data are insufficient for a single period, there is no curve for that code. The lack of data in any figure has been noted immediately below the figure. In addition, if a quantity vanishes due to port-starboard symmetry, it is not plotted. As necessary, the time that appears on the horizontal axis has been shifted so that the pitch angle is of the form $\theta = \theta_a \sin \omega t$ for some amplitude θ_a and some frequency ω . Furthermore, the time t has been replaced by $t \bmod T_e$ where T_e is the period of the motion.

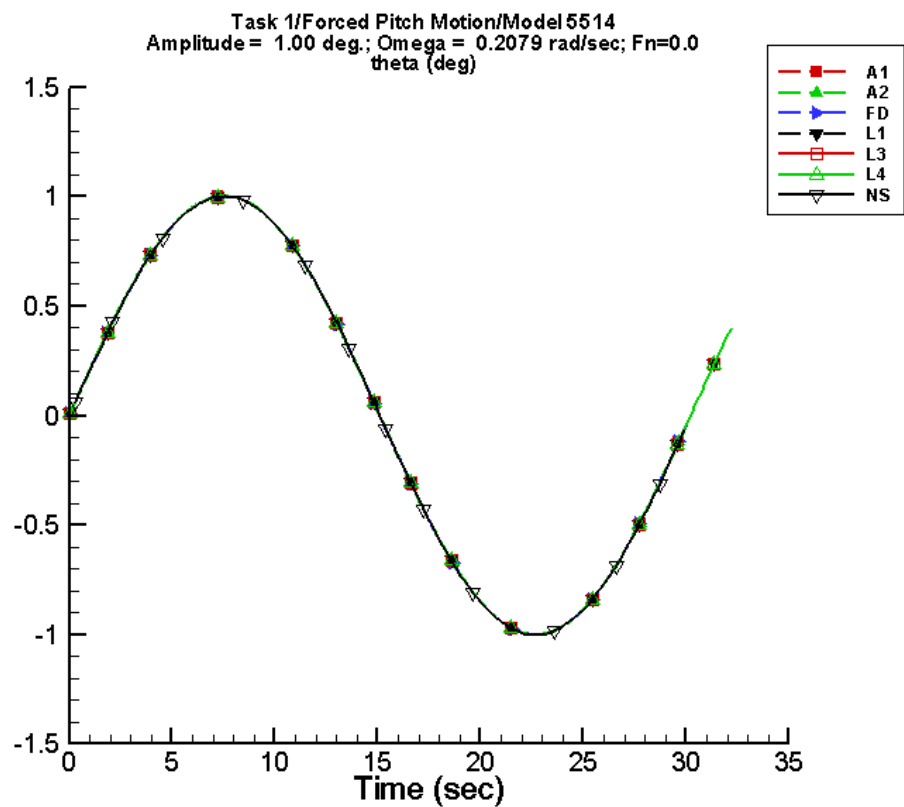
Tables F–1 through F–600 contain information related to the results depicted in the figures. Two tables follow each figure. The first table gives estimates of the mean value and the amplitudes and phases of the first and second harmonics obtained by Fourier analysis. The second table gives the minimum and maximum of the variable plotted in the figure. The minimum and maximum of both the filtered and unfiltered variable are provided. The plot itself was obtained from unfiltered data unless the data were already filtered by the code runner, as is the case for the results from NFA.

Appendix P contains plots and tables for the behavior of the minimum and the maximum of each variable plotted in this appendix versus the pitch amplitude θ_a .

In the prescribed motions of task 1, the amplitudes and frequencies for the simulations assigned to each code runner are the same for both Model 5514 and Model 5613 and for both speeds corresponding to Froude numbers 0.0 and 0.3. For prescribed pitch motion, they are given in the main part of the report and are also here for ease of reference:

Pitch Motion $\theta = \theta_a \sin(\omega t)$					
Rotation Point about LCG					
Pitch Amplitudes θ_a					
θ_a (°)	1	1.75	2.5	3.75	5
Pitch Frequencies ω					
ω_1 (rad/s)	0.2079	0.2079	0.2079	0.2079	0.2079
ω_2 (rad/s)	0.3831	0.3831	0.3831	0.3831	0.3831
ω_3 (rad/s)	1.1	1.1	1.1	1.1	1.1

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-1. Time history of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

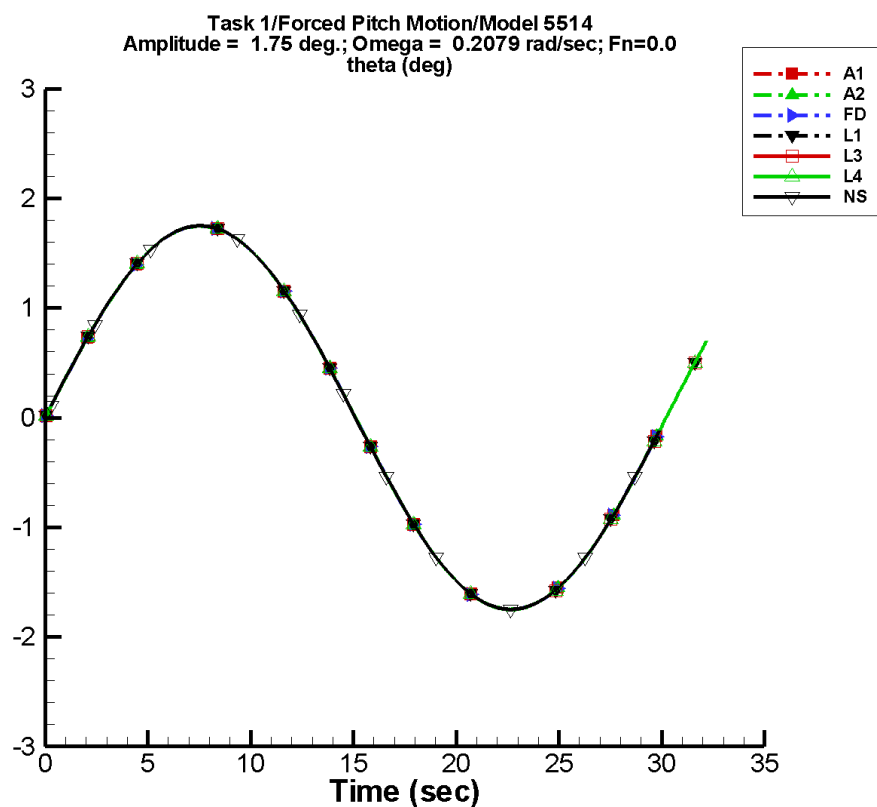
Table F-1. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.06E-07	1.00	0	9.24E-07	-25
A2	-6.06E-07	1.00	0	9.24E-07	-25
FD	-7.23E-08	1.00	0	1.65E-07	-145
L1	-1.18E-06	1.00	0	1.54E-07	94
L3	-1.18E-06	1.00	0	1.54E-07	94
L4	-1.18E-06	1.00	0	1.54E-07	94
NF	—	—	—	—	—
NS	4.89E-08	1.00	0	8.62E-08	41

Table F-2. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-1.00	1.00
A2	-1.00	1.00	-1.00	1.00
FD	-1.00	1.00	-0.999	0.999
L1	-1.00	1.00	-1.00	1.00
L3	-1.00	1.00	-1.00	1.00
L4	-1.00	1.00	-1.00	1.00
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-2. Time history of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

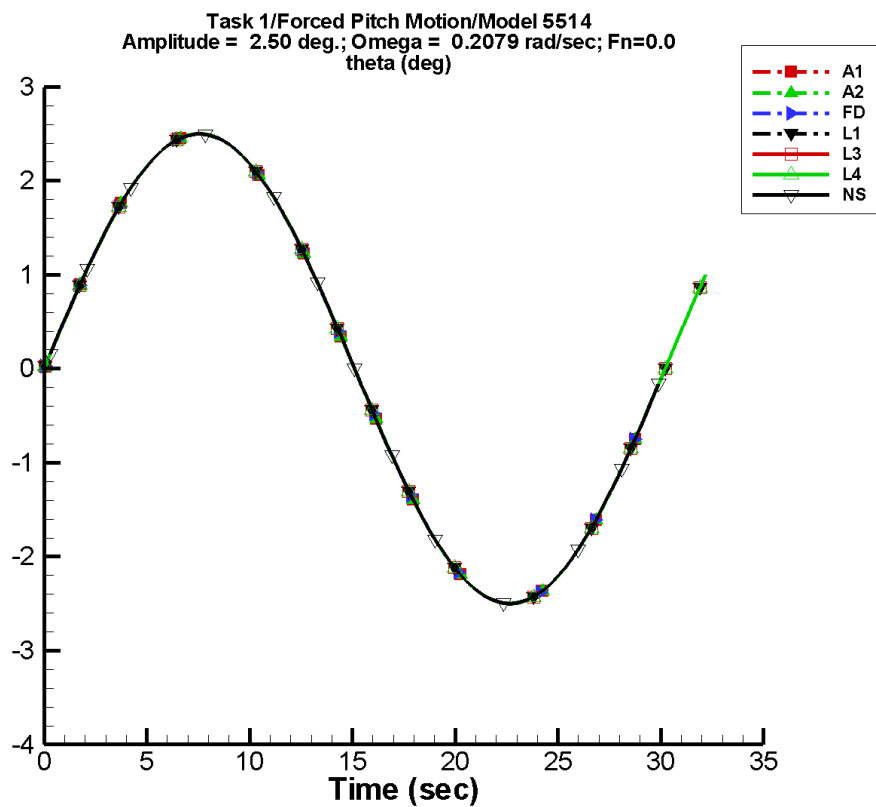
Table F–3. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.18E-06	1.75	0	1.82E-06	-21
A2	-1.18E-06	1.75	0	1.82E-06	-21
FD	-3.44E-08	1.75	0	2.11E-07	-144
L1	-1.93E-06	1.75	0	6.39E-07	9
L3	-1.93E-06	1.75	0	6.39E-07	9
L4	-1.93E-06	1.75	0	6.39E-07	9
NF	—	—	—	—	—
NS	1.87E-07	1.75	0	1.85E-07	54

Table F–4. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.75	1.75
A2	-1.75	1.75	-1.75	1.75
FD	-1.75	1.75	-1.75	1.75
L1	-1.75	1.75	-1.75	1.75
L3	-1.75	1.75	-1.75	1.75
L4	-1.75	1.75	-1.75	1.75
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-3. Time history of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

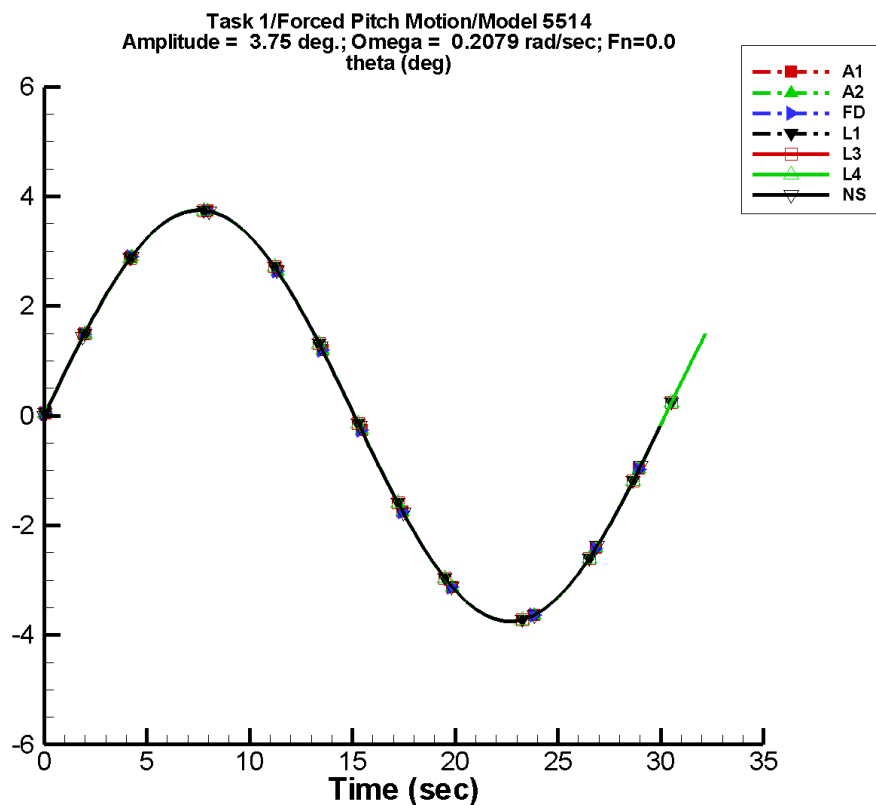
Table F–5. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.52E-06	2.50	0	2.44E-06	-21
A2	-1.52E-06	2.50	0	2.44E-06	-21
FD	-1.64E-07	2.50	0	8.24E-08	163
L1	-2.91E-06	2.50	0	3.72E-07	26
L3	-2.91E-06	2.50	0	3.72E-07	26
L4	-2.91E-06	2.50	0	3.72E-07	26
NF	—	—	—	—	—
NS	2.43E-07	2.50	0	2.36E-07	42

Table F–6. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.50	2.50
A2	-2.50	2.50	-2.50	2.50
FD	-2.50	2.50	-2.50	2.50
L1	-2.50	2.50	-2.50	2.50
L3	-2.50	2.50	-2.50	2.50
L4	-2.50	2.50	-2.50	2.50
NF	—	—	—	—
NS	-2.50	2.50	-2.48	2.48

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-4. Time history of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

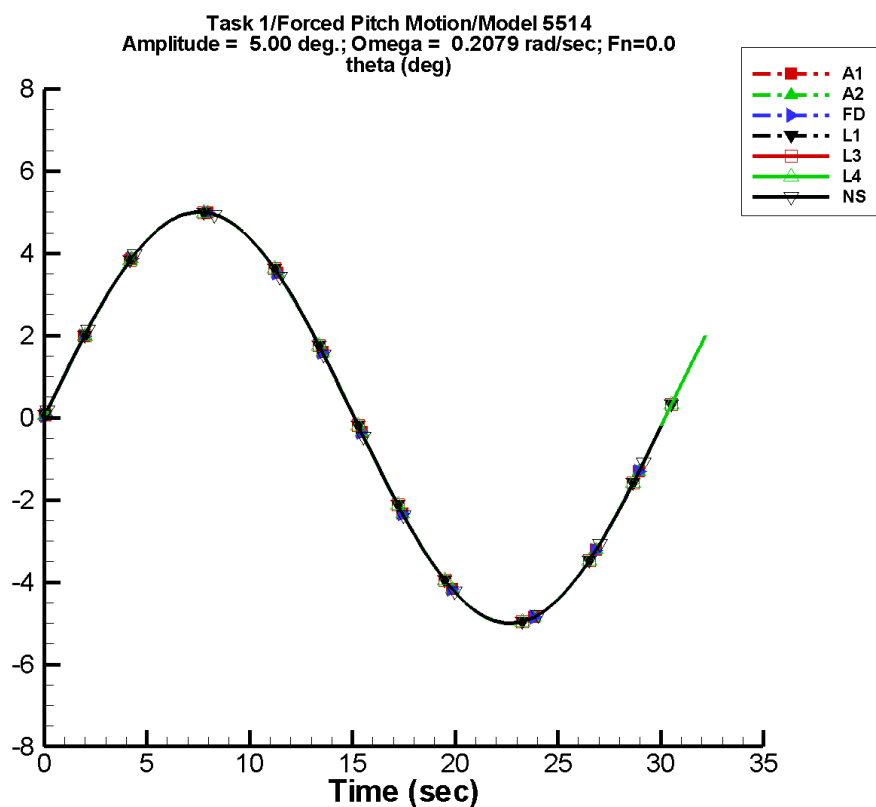
Table F-7. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.13E-06	3.75	0	3.85E-06	-13
A2	-3.13E-06	3.75	0	3.85E-06	-13
FD	1.14E-07	3.75	0	7.25E-07	-137
L1	1.89E-07	3.75	0	4.64E-07	13
L3	1.89E-07	3.75	0	4.64E-07	13
L4	1.89E-07	3.75	0	4.64E-07	13
NF	—	—	—	—	—
NS	-7.97E-08	3.75	0	1.83E-07	58

Table F-8. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.75	3.75	-3.74	3.75
A2	-3.75	3.75	-3.74	3.75
FD	-3.75	3.75	-3.75	3.75
L1	-3.75	3.75	-3.75	3.75
L3	-3.75	3.75	-3.75	3.75
L4	-3.75	3.75	-3.75	3.75
NF	—	—	—	—
NS	-3.75	3.75	-3.73	3.73

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-5. Time history of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

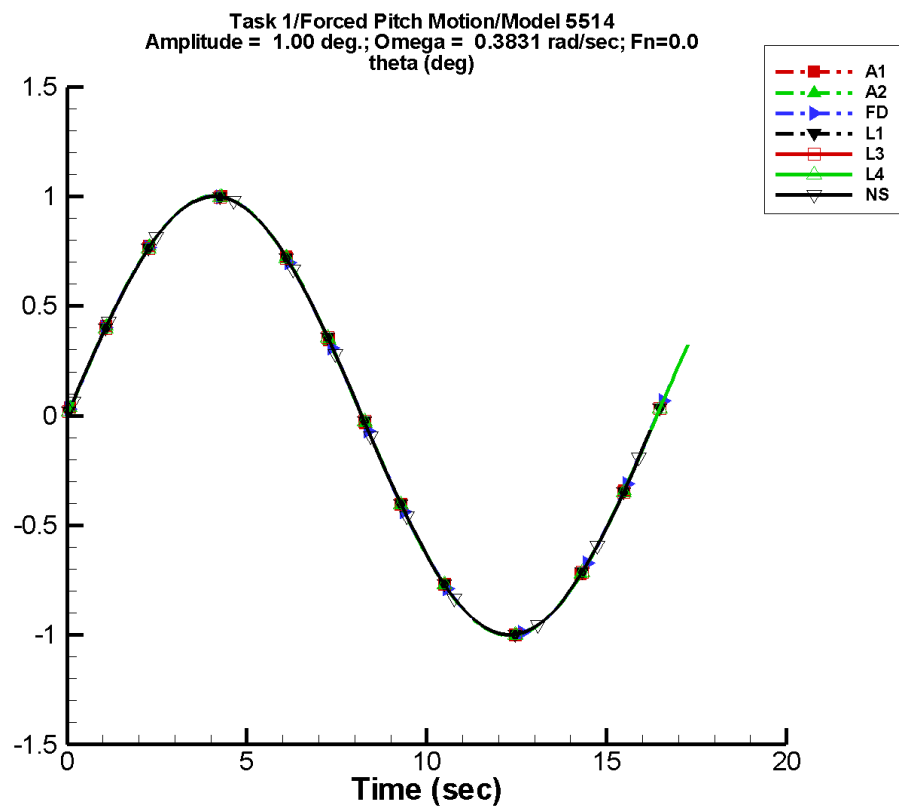
Table F-9. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.69E-06	5.00	0	5.18E-06	-21
A2	-3.69E-06	5.00	0	5.18E-06	-21
FD	-2.70E-07	5.00	0	1.91E-07	145
L1	-5.24E-06	5.00	0	8.69E-07	-32
L3	-5.24E-06	5.00	0	8.69E-07	-32
L4	-5.24E-06	5.00	0	8.69E-07	-32
NF	—	—	—	—	—
NS	3.33E-07	5.00	0	4.13E-07	166

Table F-10. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-5.00	5.00
A2	-5.00	5.00	-5.00	5.00
FD	-5.00	5.00	-4.99	4.99
L1	-5.00	5.00	-5.00	5.00
L3	-5.00	5.00	-5.00	5.00
L4	-5.00	5.00	-5.00	5.00
NF	—	—	—	—
NS	-5.00	5.00	-4.98	4.98

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-6. Time history of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

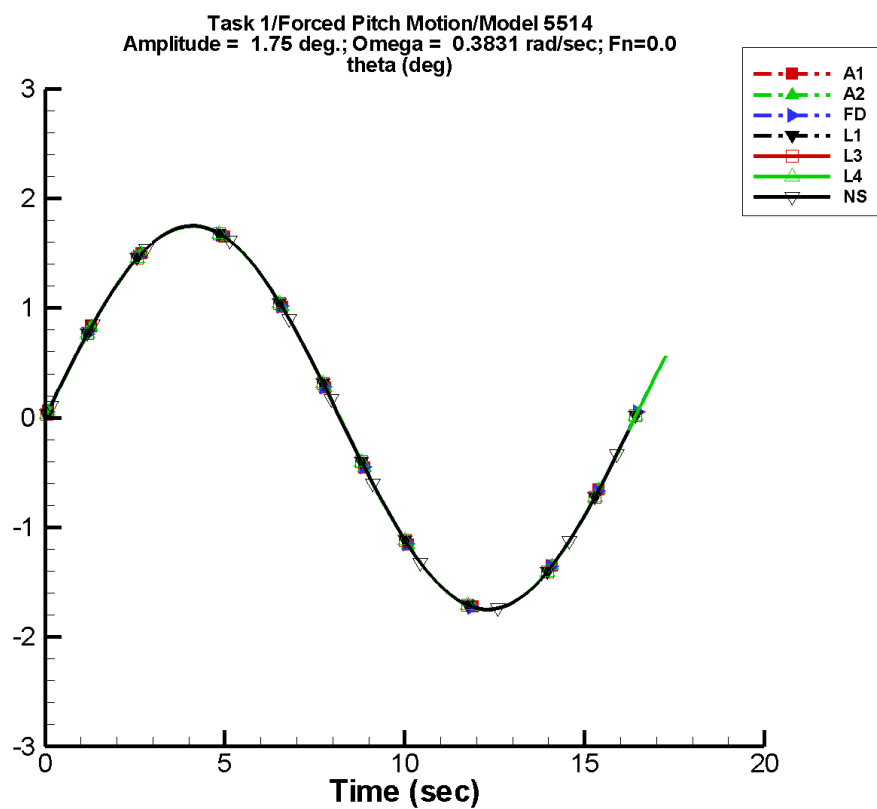
Table F–11. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.18E-08	1.00	0	7.60E-08	-93
A2	-4.18E-08	1.00	0	7.60E-08	-93
FD	-1.35E-07	1.00	0	1.30E-07	-78
L1	6.15E-06	1.00	0	1.44E-07	74
L3	6.15E-06	1.00	0	1.44E-07	74
L4	6.15E-06	1.00	0	1.44E-07	74
NF	—	—	—	—	—
NS	-1.73E-08	1.00	0	9.91E-08	-178

Table F–12. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-0.999	1.01
A2	-1.00	1.00	-0.999	1.01
FD	-1.00	1.00	-0.996	0.996
L1	-1.00	1.00	-0.999	0.999
L3	-1.00	1.00	-0.999	0.999
L4	-1.00	1.00	-0.999	0.999
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

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Data identically zero, insufficient, or not available from NFA.

Figure F-7. Time history of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

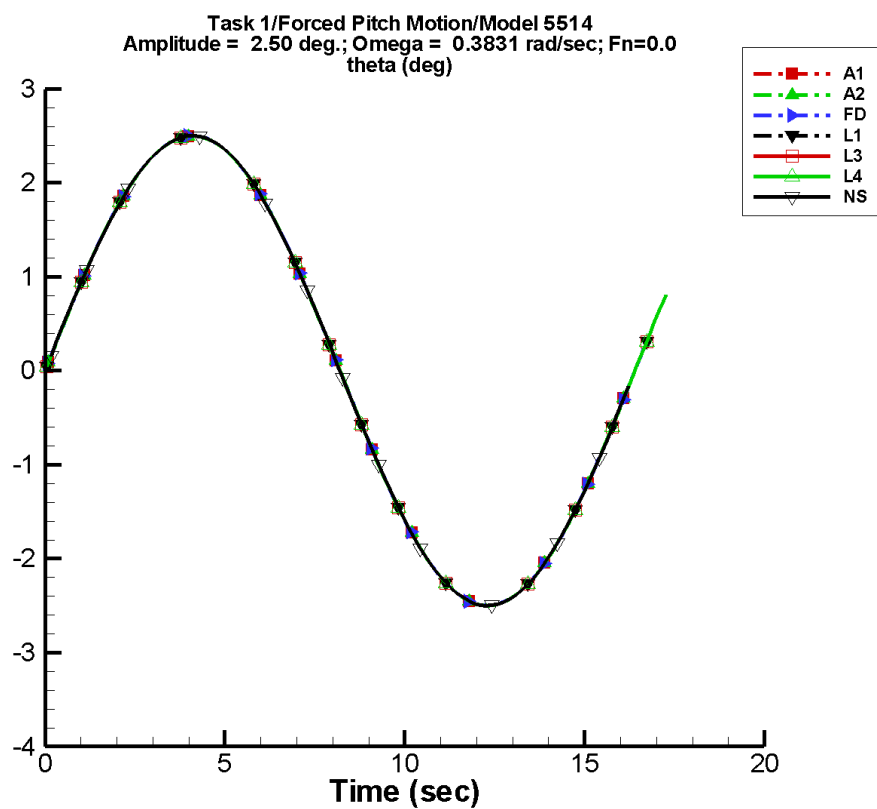
Table F–13. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	3.68E-08	1.75	0	1.96E-07	-130
A2	3.68E-08	1.75	0	1.96E-07	-130
FD	-1.87E-07	1.75	0	2.63E-07	-93
L1	1.06E-05	1.75	0	1.41E-07	93
L3	1.06E-05	1.75	0	1.41E-07	93
L4	1.06E-05	1.75	0	1.41E-07	93
NF	—	—	—	—	—
NS	-2.42E-08	1.75	0	1.38E-07	155

Table F–14. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.74	1.75
A2	-1.75	1.75	-1.74	1.75
FD	-1.75	1.75	-1.74	1.74
L1	-1.75	1.75	-1.75	1.75
L3	-1.75	1.75	-1.75	1.75
L4	-1.75	1.75	-1.75	1.75
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-8. Time history of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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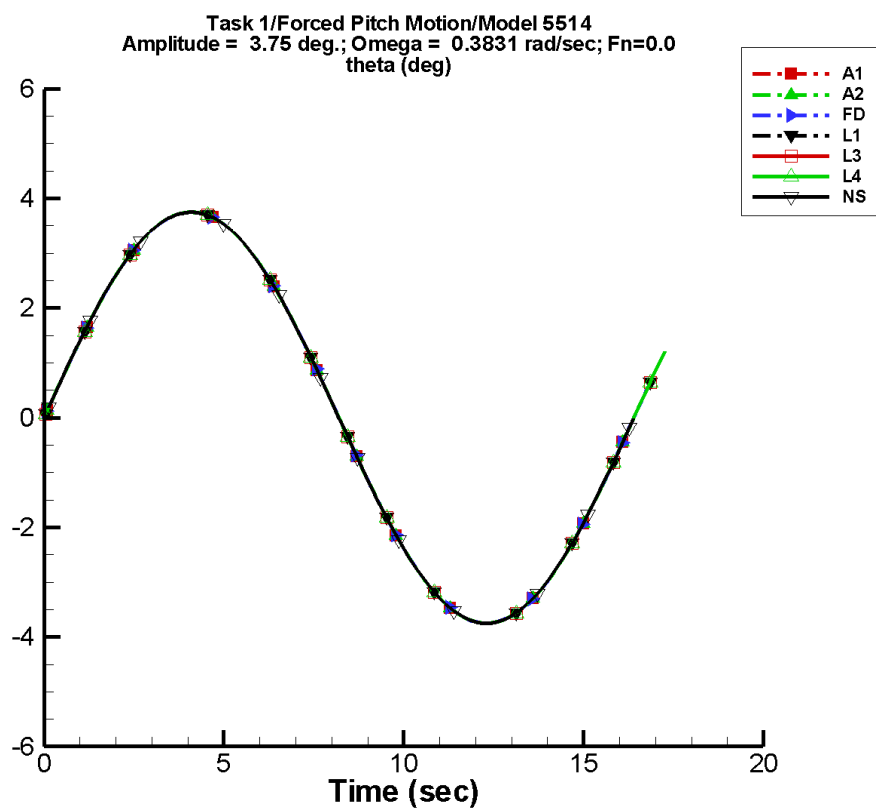
Table F–15. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.32E-07	2.50	0	6.52E-08	132
A2	1.32E-07	2.50	0	6.52E-08	132
FD	-3.07E-07	2.50	0	2.15E-07	-91
L1	1.51E-05	2.50	0	2.69E-07	-19
L3	1.51E-05	2.50	0	2.69E-07	-19
L4	1.51E-05	2.50	0	2.69E-07	-19
NF	—	—	—	—	—
NS	-1.39E-07	2.50	0	2.11E-07	176

Table F–16. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.49	2.50
A2	-2.50	2.50	-2.49	2.50
FD	-2.50	2.50	-2.49	2.49
L1	-2.50	2.50	-2.50	2.50
L3	-2.50	2.50	-2.50	2.50
L4	-2.50	2.50	-2.50	2.50
NF	—	—	—	—
NS	-2.50	2.50	-2.47	2.47

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Data identically zero, insufficient, or not available from NFA.

Figure F-9. Time history of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

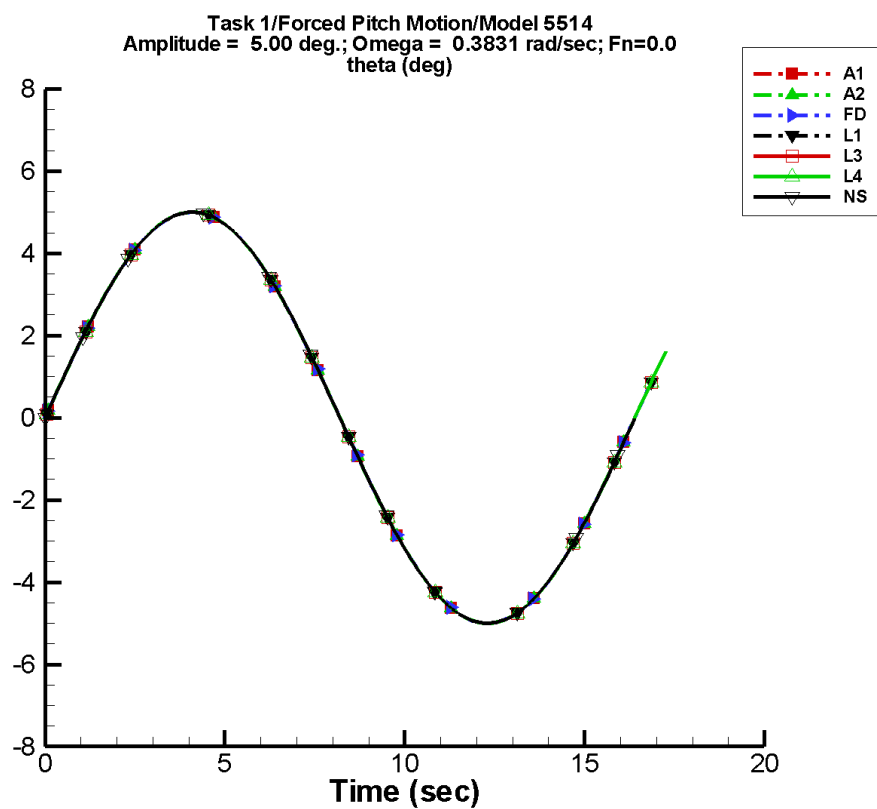
Table F–17. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	2.64E-08	3.75	0	1.97E-07	-177
A2	2.64E-08	3.75	0	1.97E-07	-177
FD	-6.55E-07	3.75	0	6.20E-07	-64
L1	3.48E-05	3.75	0	4.95E-07	111
L3	3.48E-05	3.75	0	4.95E-07	111
L4	3.48E-05	3.75	0	4.95E-07	111
NF	—	—	—	—	—
NS	-6.09E-08	3.75	0	1.22E-07	-41

Table F–18. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.75	3.75	-3.73	3.76
A2	-3.75	3.75	-3.73	3.76
FD	-3.75	3.75	-3.74	3.74
L1	-3.75	3.75	-3.75	3.75
L3	-3.75	3.75	-3.75	3.75
L4	-3.75	3.75	-3.75	3.75
NF	—	—	—	—
NS	-3.75	3.75	-3.73	3.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-10. Time history of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

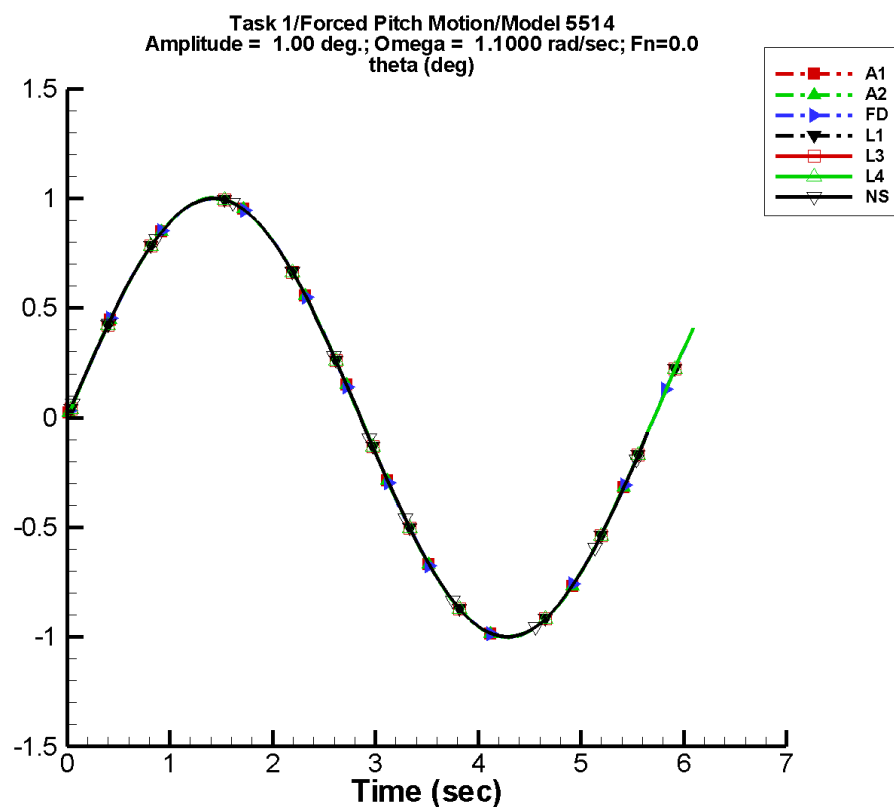
Table F–19. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.11E-08	5.00	0	4.98E-07	-131
A2	-6.11E-08	5.00	0	4.98E-07	-131
FD	-5.16E-07	5.00	0	4.54E-07	-94
L1	2.99E-05	5.00	0	1.29E-06	90
L3	2.99E-05	5.00	0	1.29E-06	90
L4	2.99E-05	5.00	0	1.29E-06	90
NF	—	—	—	—	—
NS	-1.77E-07	5.00	0	2.16E-07	-18

Table F–20. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.98	5.02
A2	-5.00	5.00	-4.98	5.02
FD	-5.00	5.00	-4.98	4.98
L1	-5.00	5.00	-4.99	4.99
L3	-5.00	5.00	-4.99	4.99
L4	-5.00	5.00	-4.99	4.99
NF	—	—	—	—
NS	-5.00	5.00	-4.98	4.98

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Data identically zero, insufficient, or not available from NFA.

Figure F-11. Time history of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

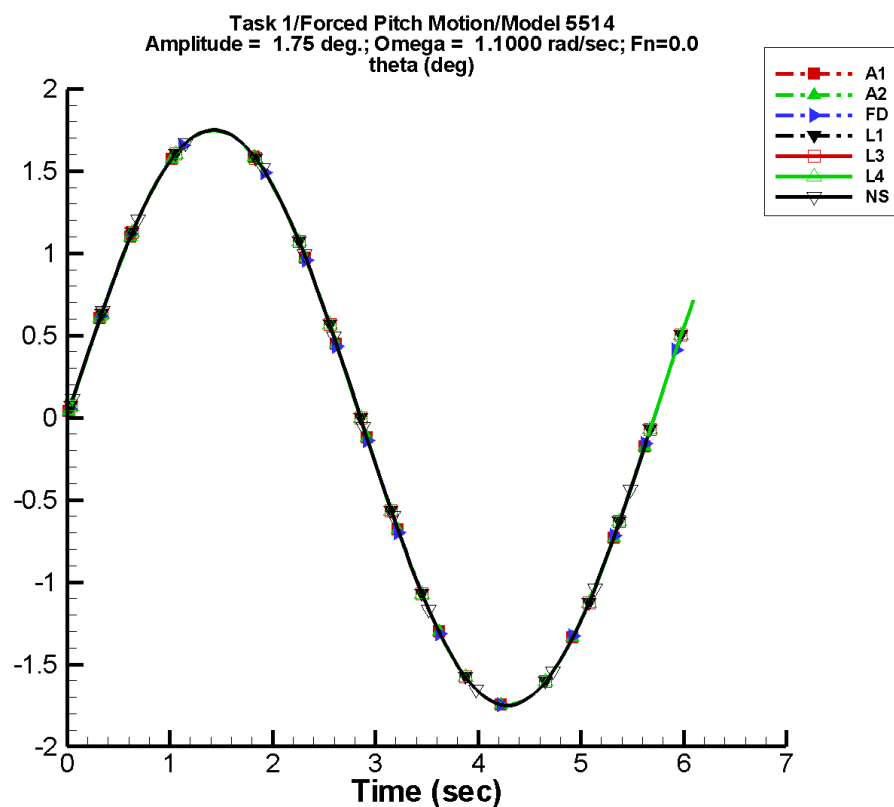
Table F–21. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.04E-06	1.00	0	1.72E-06	-11
A2	-1.04E-06	1.00	0	1.72E-06	-11
FD	-7.48E-09	1.00	0	2.15E-07	-16
L1	7.07E-05	1.00	0	2.31E-07	87
L3	7.07E-05	1.00	0	2.31E-07	87
L4	7.07E-05	1.00	0	2.31E-07	87
NF	—	—	—	—	—
NS	-4.15E-08	1.00	0	6.12E-08	-63

Table F–22. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-0.971	0.978
A2	-1.00	1.00	-0.971	0.978
FD	-0.999	1.00	-0.968	0.968
L1	-1.00	1.00	-0.989	0.989
L3	-1.00	1.00	-0.989	0.989
L4	-1.00	1.00	-0.989	0.989
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

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Data identically zero, insufficient, or not available from NFA.

Figure F-12. Time history of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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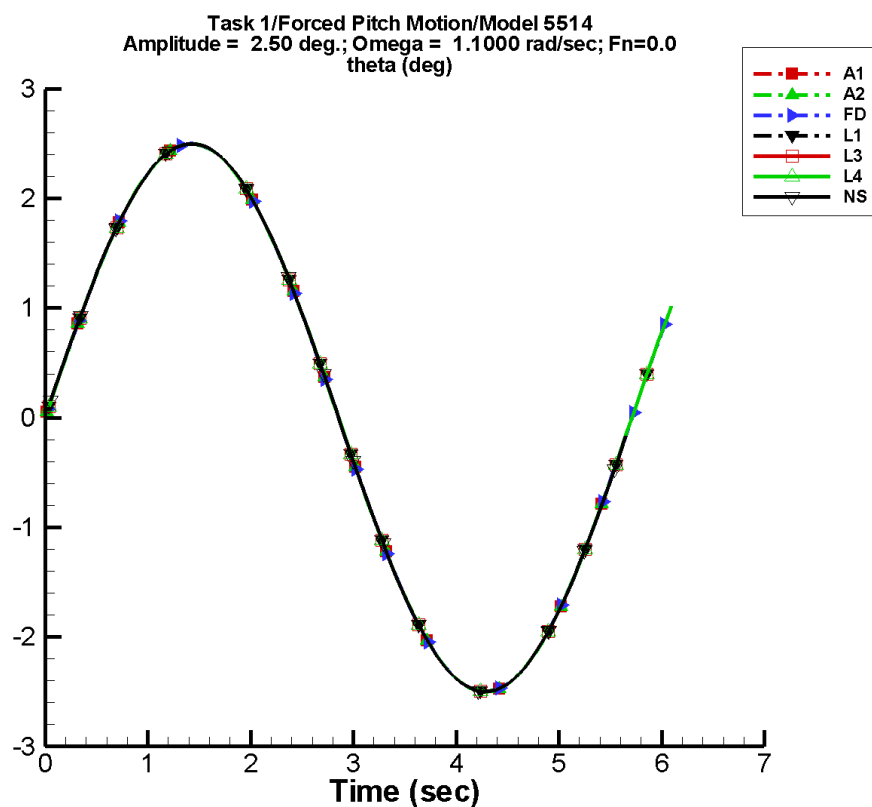
Table F–23. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.85E-06	1.75	0	2.98E-06	-11
A2	-1.85E-06	1.75	0	2.98E-06	-11
FD	-1.00E-07	1.75	0	4.54E-07	-9
L1	1.27E-04	1.75	0	5.84E-07	101
L3	1.27E-04	1.75	0	5.84E-07	101
L4	1.27E-04	1.75	0	5.84E-07	101
NF	—	—	—	—	—
NS	-1.24E-07	1.75	0	8.58E-08	-113

Table F–24. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.69	1.71
A2	-1.75	1.75	-1.69	1.71
FD	-1.75	1.75	-1.69	1.69
L1	-1.75	1.75	-1.73	1.73
L3	-1.75	1.75	-1.73	1.73
L4	-1.75	1.75	-1.73	1.73
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-13. Time history of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

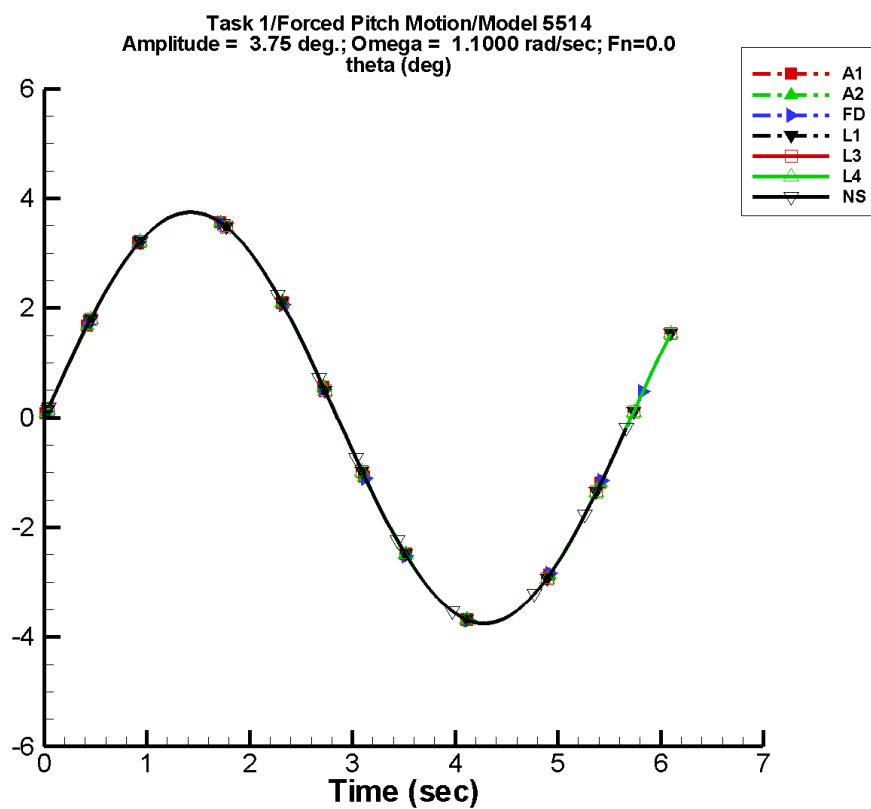
Table F–25. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.58E-06	2.50	0	4.15E-06	-12
A2	-2.58E-06	2.50	0	4.15E-06	-12
FD	-1.71E-07	2.50	0	6.21E-07	-17
L1	1.78E-04	2.50	0	7.79E-07	61
L3	1.78E-04	2.50	0	7.79E-07	61
L4	1.78E-04	2.50	0	7.79E-07	61
NF	—	—	—	—	—
NS	-3.02E-07	2.50	0	1.91E-07	-91

Table F–26. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.42	2.44
A2	-2.50	2.50	-2.42	2.44
FD	-2.50	2.50	-2.42	2.42
L1	-2.50	2.50	-2.47	2.47
L3	-2.50	2.50	-2.47	2.47
L4	-2.50	2.50	-2.47	2.47
NF	—	—	—	—
NS	-2.50	2.50	-2.47	2.47

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Data identically zero, insufficient, or not available from NFA.

Figure F-14. Time history of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

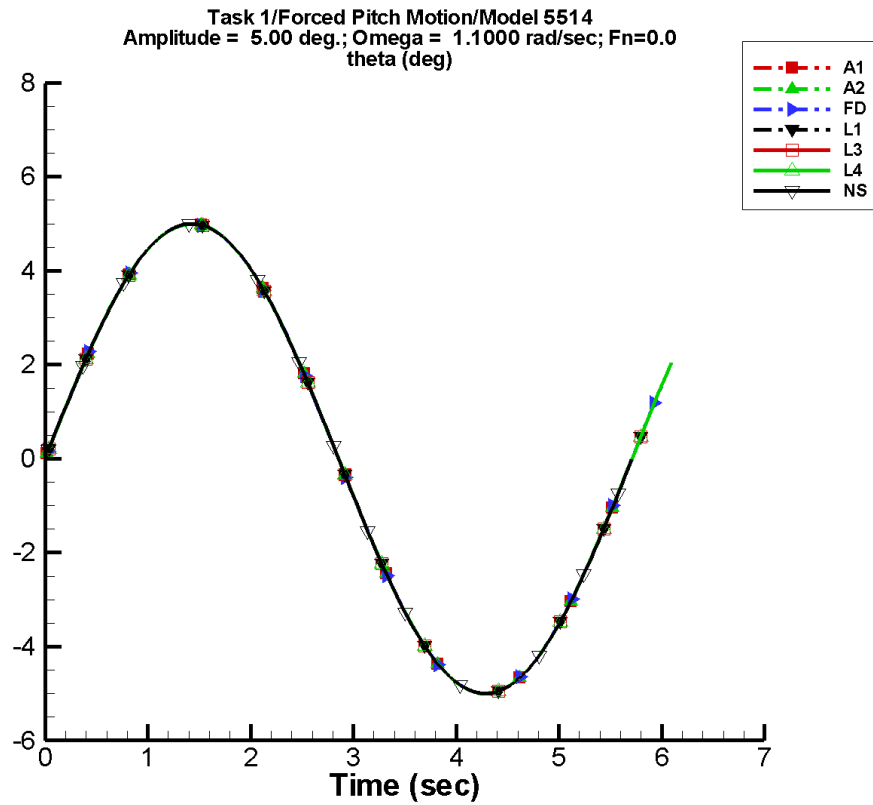
Table F–27. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.00E-06	3.75	0	5.91E-06	-10
A2	-4.00E-06	3.75	0	5.91E-06	-10
FD	-5.81E-07	3.75	0	7.97E-07	13
L1	2.70E-04	3.75	0	9.76E-07	48
L3	2.70E-04	3.75	0	9.76E-07	48
L4	2.70E-04	3.75	0	9.76E-07	48
NF	—	—	—	—	—
NS	-2.18E-07	3.75	0	2.18E-07	172

Table F–28. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.74	3.75	-3.63	3.66
A2	-3.74	3.75	-3.63	3.66
FD	-3.75	3.75	-3.63	3.63
L1	-3.75	3.75	-3.71	3.71
L3	-3.75	3.75	-3.71	3.71
L4	-3.75	3.75	-3.71	3.71
NF	—	—	—	—
NS	-3.75	3.75	-3.73	3.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-15. Time history of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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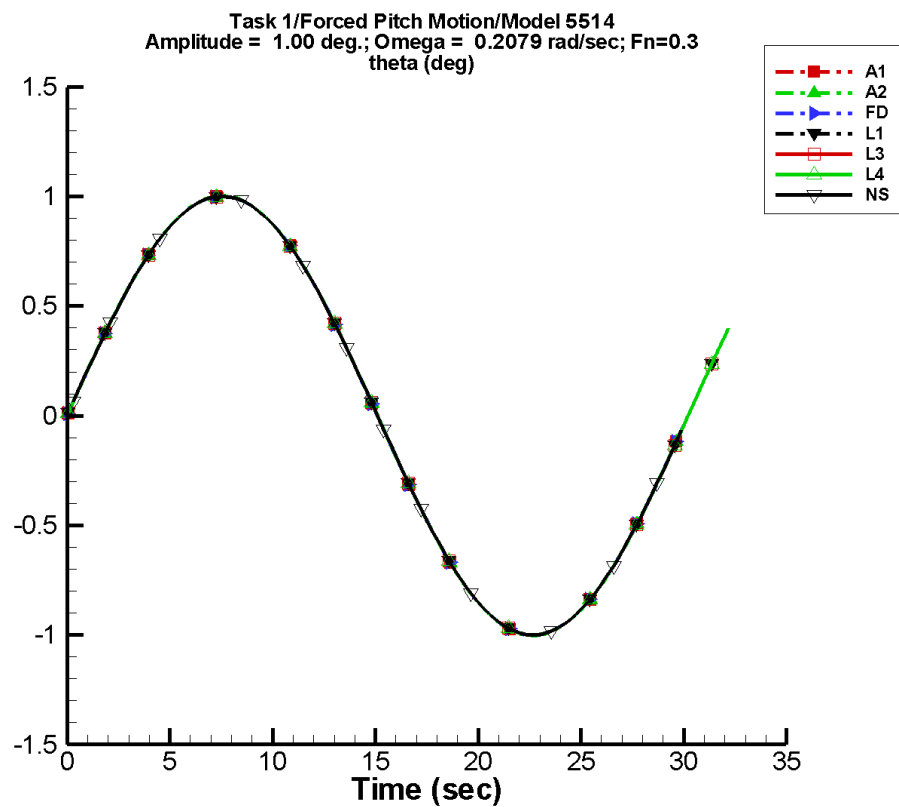
Table F–29. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-5.39E-06	5.00	0	8.25E-06	-11
A2	-5.39E-06	5.00	0	8.25E-06	-11
FD	-2.50E-07	5.00	0	1.09E-06	-8
L1	3.56E-04	5.00	0	7.26E-07	73
L3	3.56E-04	5.00	0	7.26E-07	73
L4	3.56E-04	5.00	0	7.26E-07	73
NF	—	—	—	—	—
NS	6.54E-07	5.00	0	8.77E-07	-8

Table F–30. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.84	4.88
A2	-5.00	5.00	-4.84	4.88
FD	-4.99	5.00	-4.84	4.84
L1	-5.00	5.00	-4.94	4.94
L3	-5.00	5.00	-4.94	4.94
L4	-5.00	5.00	-4.94	4.94
NF	—	—	—	—
NS	-5.00	5.00	-4.98	4.98

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Data identically zero, insufficient, or not available from NFA.

Figure F-16. Time history of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

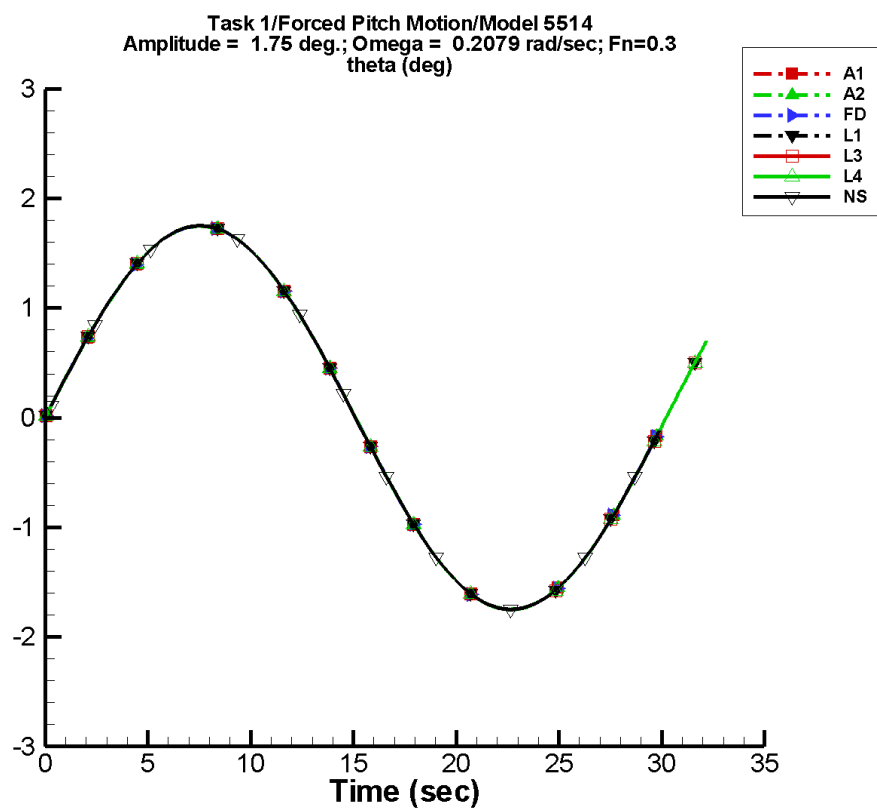
Table F–31. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.06E-07	1.00	0	9.24E-07	-25
A2	-6.06E-07	1.00	0	9.24E-07	-25
FD	-7.23E-08	1.00	0	1.65E-07	-145
L1	-1.18E-06	1.00	0	1.54E-07	94
L3	-1.18E-06	1.00	0	1.54E-07	94
L4	-1.18E-06	1.00	0	1.54E-07	94
NF	—	—	—	—	—
NS	4.89E-08	1.00	0	8.62E-08	41

Table F–32. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-1.00	1.00
A2	-1.00	1.00	-1.00	1.00
FD	-1.00	1.00	-0.999	0.999
L1	-1.00	1.00	-1.00	1.00
L3	-1.00	1.00	-1.00	1.00
L4	-1.00	1.00	-1.00	1.00
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

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Data identically zero, insufficient, or not available from NFA.

Figure F-17. Time history of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

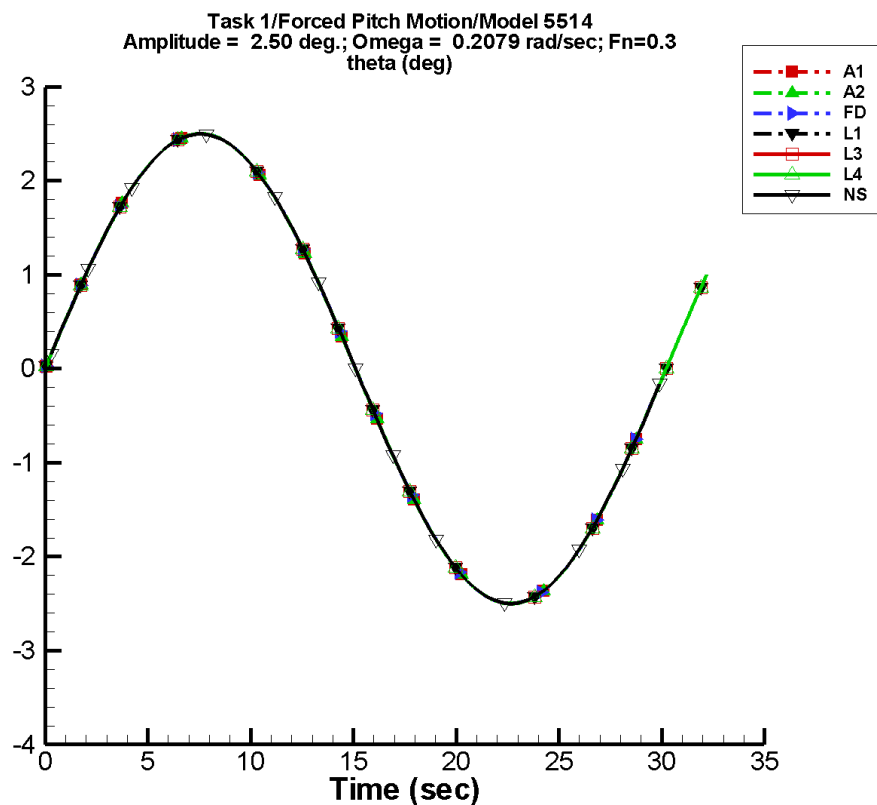
Table F–33. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.18E-06	1.75	0	1.82E-06	-21
A2	-1.18E-06	1.75	0	1.82E-06	-21
FD	-3.44E-08	1.75	0	2.11E-07	-144
L1	-1.93E-06	1.75	0	6.39E-07	9
L3	-1.93E-06	1.75	0	6.39E-07	9
L4	-1.93E-06	1.75	0	6.39E-07	9
NF	—	—	—	—	—
NS	1.87E-07	1.75	0	1.85E-07	54

Table F–34. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.75	1.75
A2	-1.75	1.75	-1.75	1.75
FD	-1.75	1.75	-1.75	1.75
L1	-1.75	1.75	-1.75	1.75
L3	-1.75	1.75	-1.75	1.75
L4	-1.75	1.75	-1.75	1.75
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-18. Time history of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

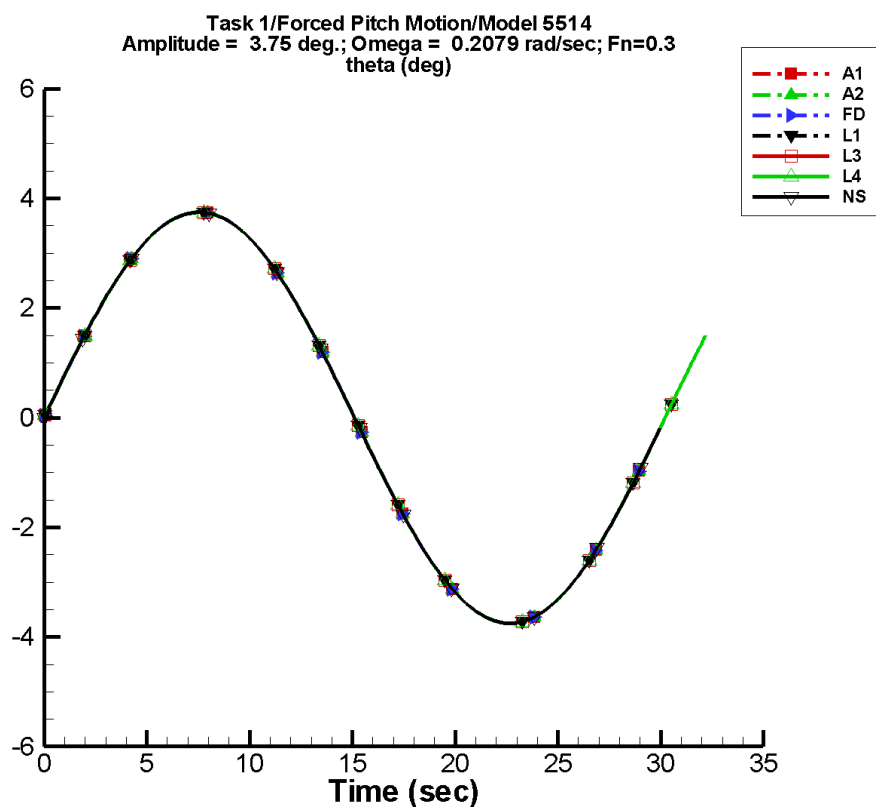
Table F–35. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.52E-06	2.50	0	2.44E-06	-21
A2	-1.52E-06	2.50	0	2.44E-06	-21
FD	-1.64E-07	2.50	0	8.24E-08	163
L1	-2.91E-06	2.50	0	3.72E-07	26
L3	-2.91E-06	2.50	0	3.72E-07	26
L4	-2.91E-06	2.50	0	3.72E-07	26
NF	—	—	—	—	—
NS	2.43E-07	2.50	0	2.36E-07	42

Table F–36. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.50	2.50
A2	-2.50	2.50	-2.50	2.50
FD	-2.50	2.50	-2.50	2.50
L1	-2.50	2.50	-2.50	2.50
L3	-2.50	2.50	-2.50	2.50
L4	-2.50	2.50	-2.50	2.50
NF	—	—	—	—
NS	-2.50	2.50	-2.48	2.48

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Data identically zero, insufficient, or not available from NFA.

Figure F-19. Time history of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

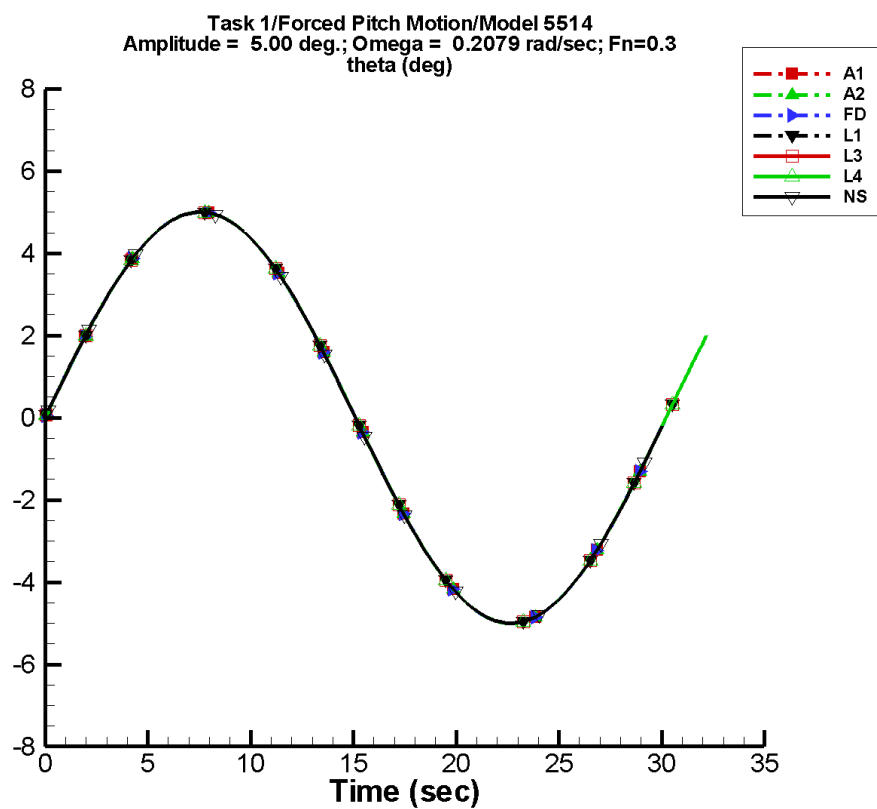
Table F–37. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.13E-06	3.75	0	3.85E-06	-13
A2	-3.13E-06	3.75	0	3.85E-06	-13
FD	1.14E-07	3.75	0	7.25E-07	-137
L1	1.89E-07	3.75	0	4.64E-07	13
L3	1.89E-07	3.75	0	4.64E-07	13
L4	1.89E-07	3.75	0	4.64E-07	13
NF	—	—	—	—	—
NS	-7.97E-08	3.75	0	1.83E-07	58

Table F–38. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.75	3.75	-3.74	3.75
A2	-3.75	3.75	-3.74	3.75
FD	-3.75	3.75	-3.75	3.75
L1	-3.75	3.75	-3.75	3.75
L3	-3.75	3.75	-3.75	3.75
L4	-3.75	3.75	-3.75	3.75
NF	—	—	—	—
NS	-3.75	3.75	-3.73	3.73

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Data identically zero, insufficient, or not available from NFA.

Figure F-20. Time history of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

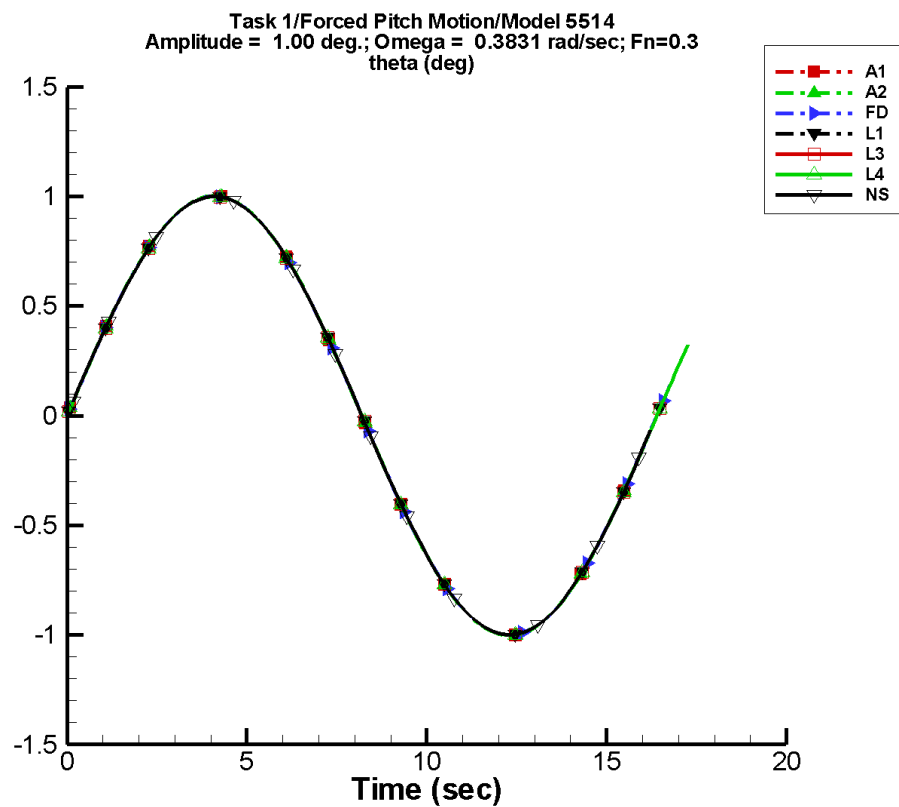
Table F–39. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.69E-06	5.00	0	5.18E-06	-21
A2	-3.69E-06	5.00	0	5.18E-06	-21
FD	-2.70E-07	5.00	0	1.91E-07	145
L1	-5.24E-06	5.00	0	8.69E-07	-32
L3	-5.24E-06	5.00	0	8.69E-07	-32
L4	-5.24E-06	5.00	0	8.69E-07	-32
NF	—	—	—	—	—
NS	3.33E-07	5.00	0	4.13E-07	166

Table F–40. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-5.00	5.00
A2	-5.00	5.00	-5.00	5.00
FD	-5.00	5.00	-4.99	4.99
L1	-5.00	5.00	-5.00	5.00
L3	-5.00	5.00	-5.00	5.00
L4	-5.00	5.00	-5.00	5.00
NF	—	—	—	—
NS	-5.00	5.00	-4.98	4.98

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Data identically zero, insufficient, or not available from NFA.

Figure F-21. Time history of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

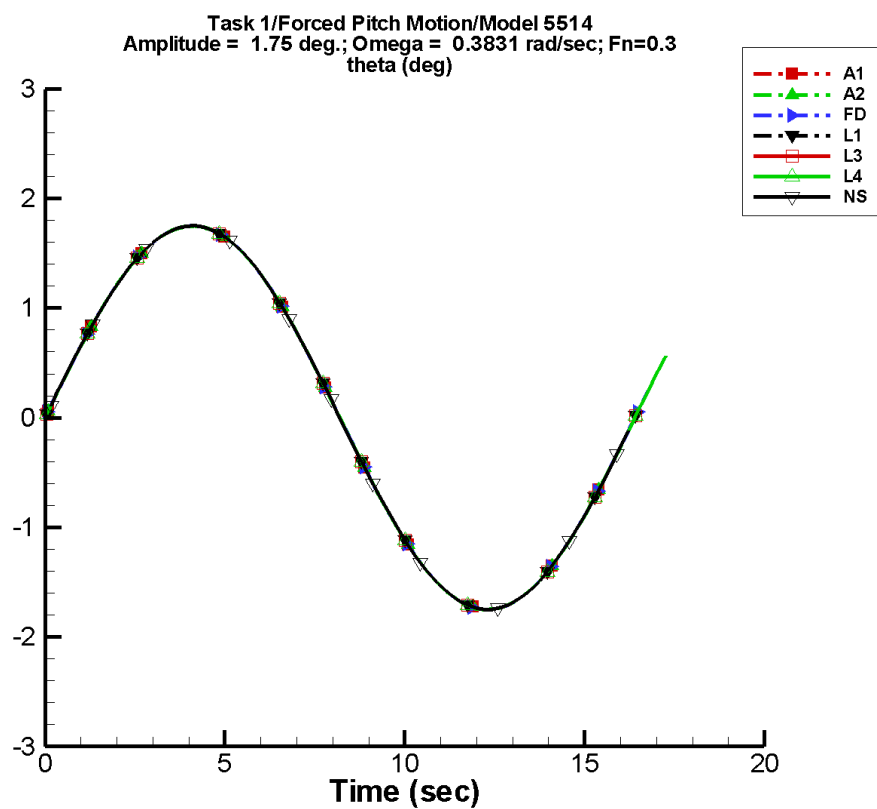
Table F–41. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.18E-08	1.00	0	7.60E-08	-93
A2	-4.18E-08	1.00	0	7.60E-08	-93
FD	-1.35E-07	1.00	0	1.30E-07	-78
L1	6.15E-06	1.00	0	1.44E-07	74
L3	6.15E-06	1.00	0	1.44E-07	74
L4	6.15E-06	1.00	0	1.44E-07	74
NF	—	—	—	—	—
NS	-1.73E-08	1.00	0	9.91E-08	-178

Table F–42. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-0.999	1.01
A2	-1.00	1.00	-0.999	1.01
FD	-1.00	1.00	-0.996	0.996
L1	-1.00	1.00	-0.999	0.999
L3	-1.00	1.00	-0.999	0.999
L4	-1.00	1.00	-0.999	0.999
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

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Data identically zero, insufficient, or not available from NFA.

Figure F-22. Time history of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F-43. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	3.68E-08	1.75	0	1.96E-07	-130
A2	3.68E-08	1.75	0	1.96E-07	-130
FD	-1.87E-07	1.75	0	2.63E-07	-93
L1	1.06E-05	1.75	0	1.41E-07	93
L3	1.06E-05	1.75	0	1.41E-07	93
L4	1.06E-05	1.75	0	1.41E-07	93
NF	—	—	—	—	—
NS	-2.42E-08	1.75	0	1.38E-07	155

Table F-44. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.74	1.75
A2	-1.75	1.75	-1.74	1.75
FD	-1.75	1.75	-1.74	1.74
L1	-1.75	1.75	-1.75	1.75
L3	-1.75	1.75	-1.75	1.75
L4	-1.75	1.75	-1.75	1.75
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

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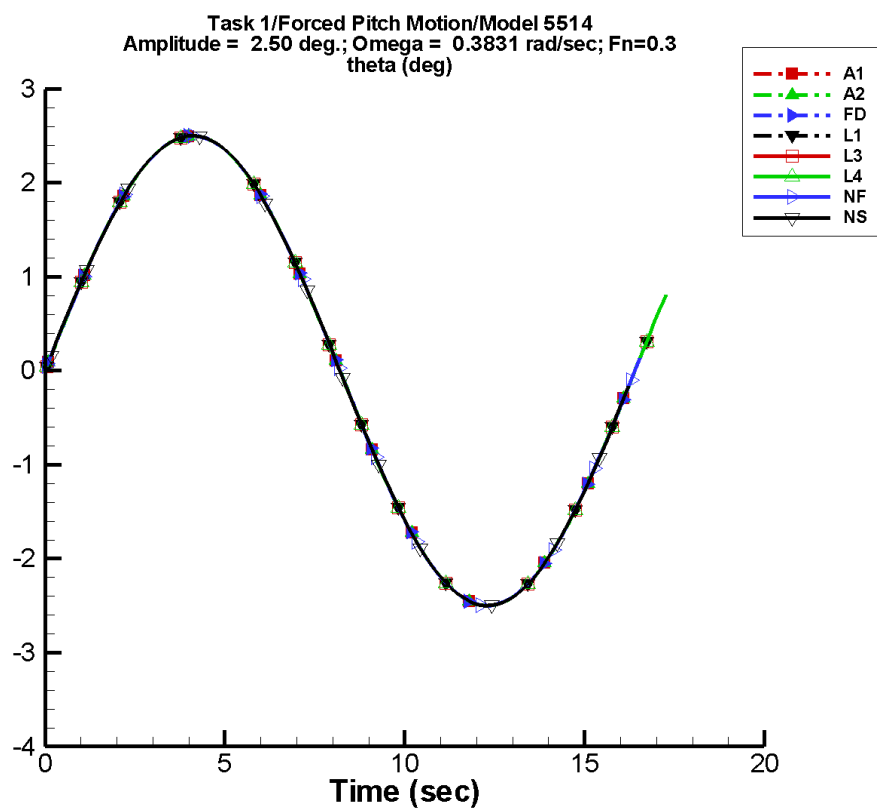


Figure F-23. Time history of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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Table F-45. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.32E-07	2.50	0	6.52E-08	132
A2	1.32E-07	2.50	0	6.52E-08	132
FD	-3.07E-07	2.50	0	2.15E-07	-91
L1	1.51E-05	2.50	0	2.69E-07	-19
L3	1.51E-05	2.50	0	2.69E-07	-19
L4	1.51E-05	2.50	0	2.69E-07	-19
NF	-1.09E-02	2.49	12	2.84E-02	-126
NS	-1.39E-07	2.50	0	2.11E-07	176

Table F-46. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.49	2.50
A2	-2.50	2.50	-2.49	2.50
FD	-2.50	2.50	-2.49	2.49
L1	-2.50	2.50	-2.50	2.50
L3	-2.50	2.50	-2.50	2.50
L4	-2.50	2.50	-2.50	2.50
NF	-2.50	2.50	-2.48	2.49
NS	-2.50	2.50	-2.47	2.47

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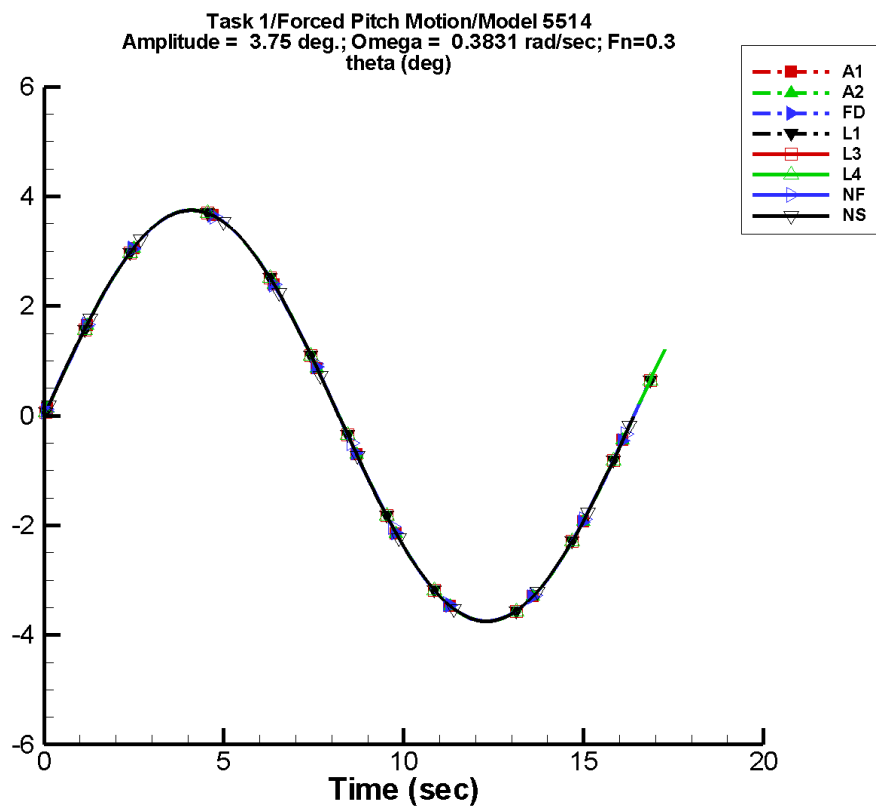


Figure F-24. Time history of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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Table F-47. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	2.64E-08	3.75	0	1.97E-07	-177
A2	2.64E-08	3.75	0	1.97E-07	-177
FD	-6.55E-07	3.75	0	6.20E-07	-64
L1	3.48E-05	3.75	0	4.95E-07	111
L3	3.48E-05	3.75	0	4.95E-07	111
L4	3.48E-05	3.75	0	4.95E-07	111
NF	-1.63E-02	3.74	12	4.24E-02	-127
NS	-6.09E-08	3.75	0	1.22E-07	-41

Table F-48. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.75	3.75	-3.73	3.76
A2	-3.75	3.75	-3.73	3.76
FD	-3.75	3.75	-3.74	3.74
L1	-3.75	3.75	-3.75	3.75
L3	-3.75	3.75	-3.75	3.75
L4	-3.75	3.75	-3.75	3.75
NF	-3.75	3.75	-3.73	3.73
NS	-3.75	3.75	-3.73	3.73

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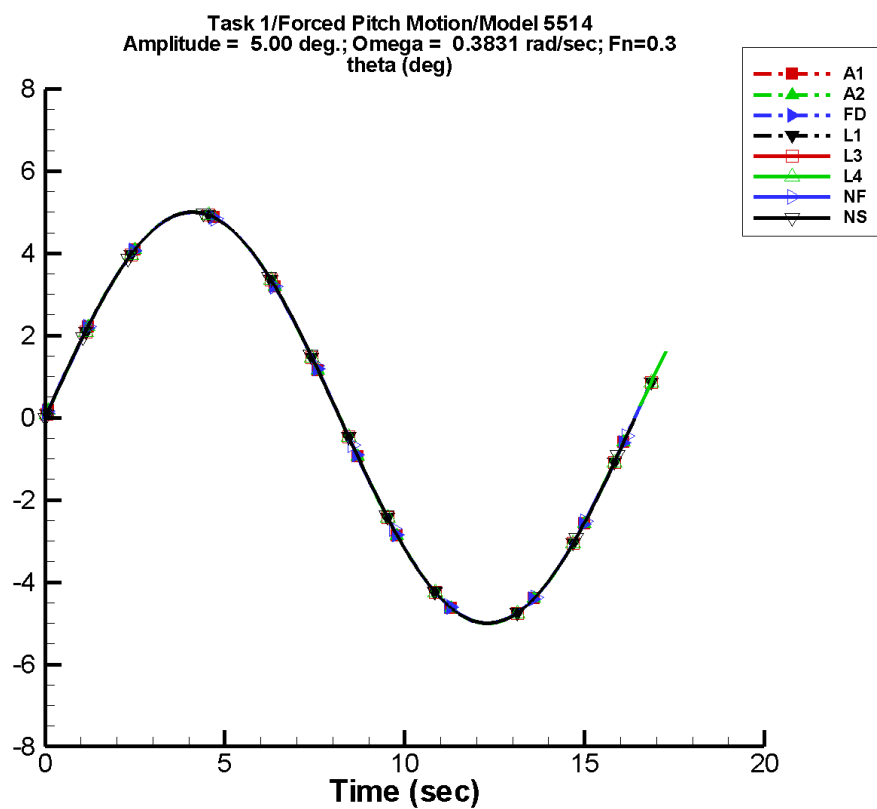


Figure F-25. Time history of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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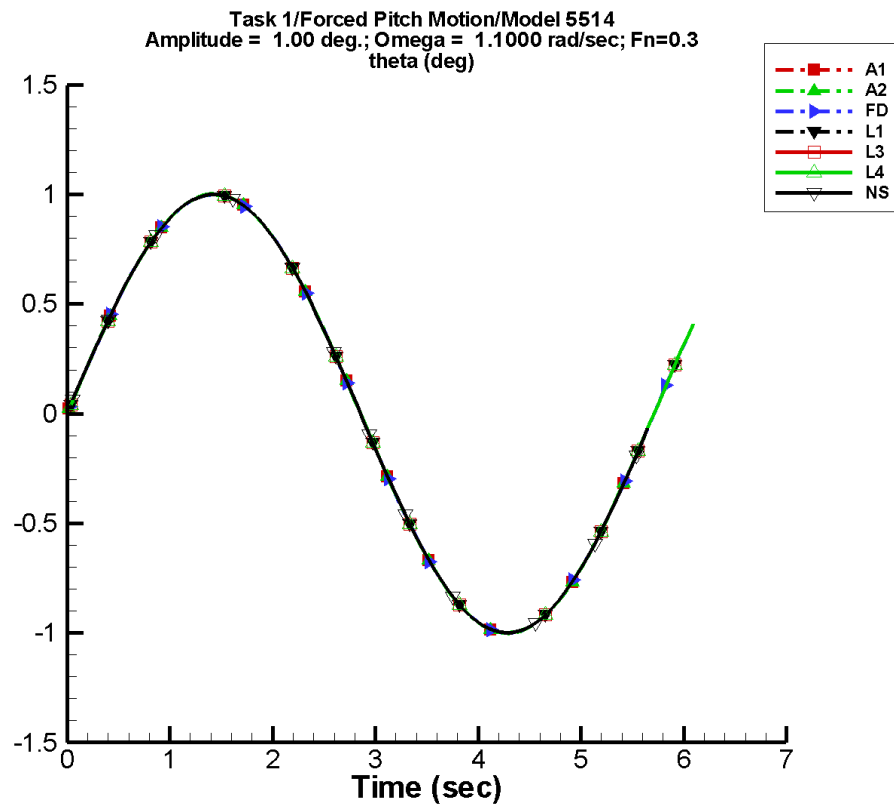
Table F-49. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.11E-08	5.00	0	4.98E-07	-131
A2	-6.11E-08	5.00	0	4.98E-07	-131
FD	-5.16E-07	5.00	0	4.54E-07	-94
L1	2.99E-05	5.00	0	1.29E-06	90
L3	2.99E-05	5.00	0	1.29E-06	90
L4	2.99E-05	5.00	0	1.29E-06	90
NF	-2.18E-02	4.98	12	5.69E-02	-126
NS	-1.77E-07	5.00	0	2.16E-07	-18

Table F-50. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.98	5.02
A2	-5.00	5.00	-4.98	5.02
FD	-5.00	5.00	-4.98	4.98
L1	-5.00	5.00	-4.99	4.99
L3	-5.00	5.00	-4.99	4.99
L4	-5.00	5.00	-4.99	4.99
NF	-5.00	5.00	-4.97	4.97
NS	-5.00	5.00	-4.98	4.98

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Data identically zero, insufficient, or not available from NFA.

Figure F-26. Time history of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

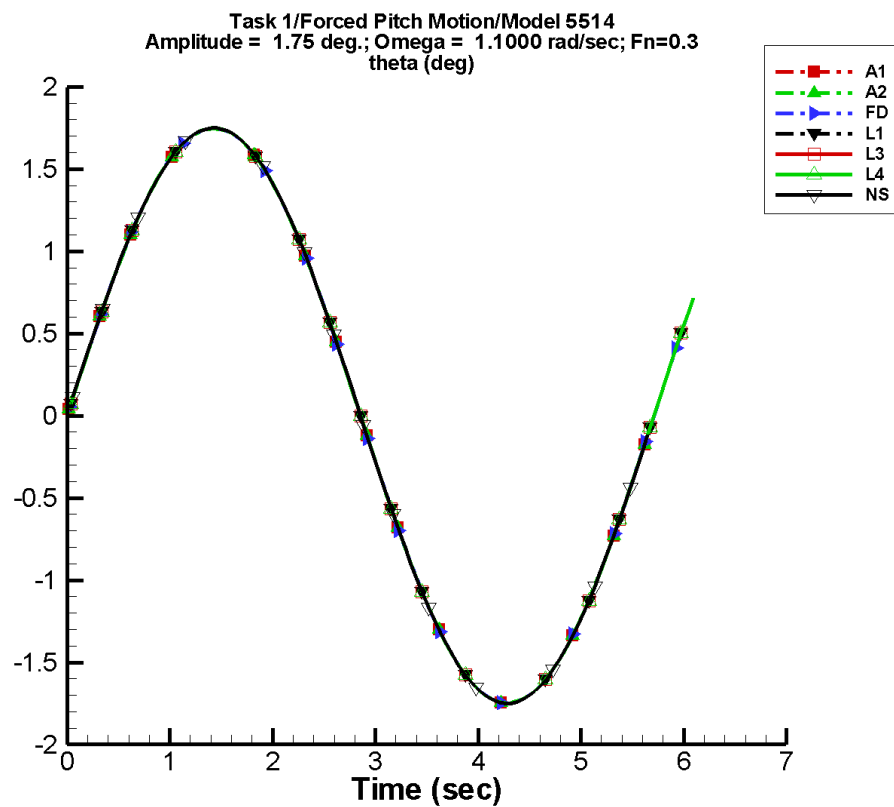
Table F–51. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.04E-06	1.00	0	1.72E-06	-11
A2	-1.04E-06	1.00	0	1.72E-06	-11
FD	-7.48E-09	1.00	0	2.15E-07	-16
L1	7.07E-05	1.00	0	2.31E-07	87
L3	7.07E-05	1.00	0	2.31E-07	87
L4	7.07E-05	1.00	0	2.31E-07	87
NF	—	—	—	—	—
NS	-4.15E-08	1.00	0	6.12E-08	-63

Table F–52. Minimum and maximum of θ for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.00	1.00	-0.971	0.978
A2	-1.00	1.00	-0.971	0.978
FD	-0.999	1.00	-0.968	0.968
L1	-1.00	1.00	-0.989	0.989
L3	-1.00	1.00	-0.989	0.989
L4	-1.00	1.00	-0.989	0.989
NF	—	—	—	—
NS	-1.00	1.00	-0.990	0.990

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Data identically zero, insufficient, or not available from NFA.

Figure F-27. Time history of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F-53. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.85E-06	1.75	0	2.98E-06	-11
A2	-1.85E-06	1.75	0	2.98E-06	-11
FD	-1.00E-07	1.75	0	4.54E-07	-9
L1	1.27E-04	1.75	0	5.84E-07	101
L3	1.27E-04	1.75	0	5.84E-07	101
L4	1.27E-04	1.75	0	5.84E-07	101
NF	—	—	—	—	—
NS	-1.24E-07	1.75	0	8.58E-08	-113

Table F-54. Minimum and maximum of θ for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-1.75	1.75	-1.69	1.71
A2	-1.75	1.75	-1.69	1.71
FD	-1.75	1.75	-1.69	1.69
L1	-1.75	1.75	-1.73	1.73
L3	-1.75	1.75	-1.73	1.73
L4	-1.75	1.75	-1.73	1.73
NF	—	—	—	—
NS	-1.75	1.75	-1.73	1.73

TASK 1/PITCH MOTION/MODEL 5514

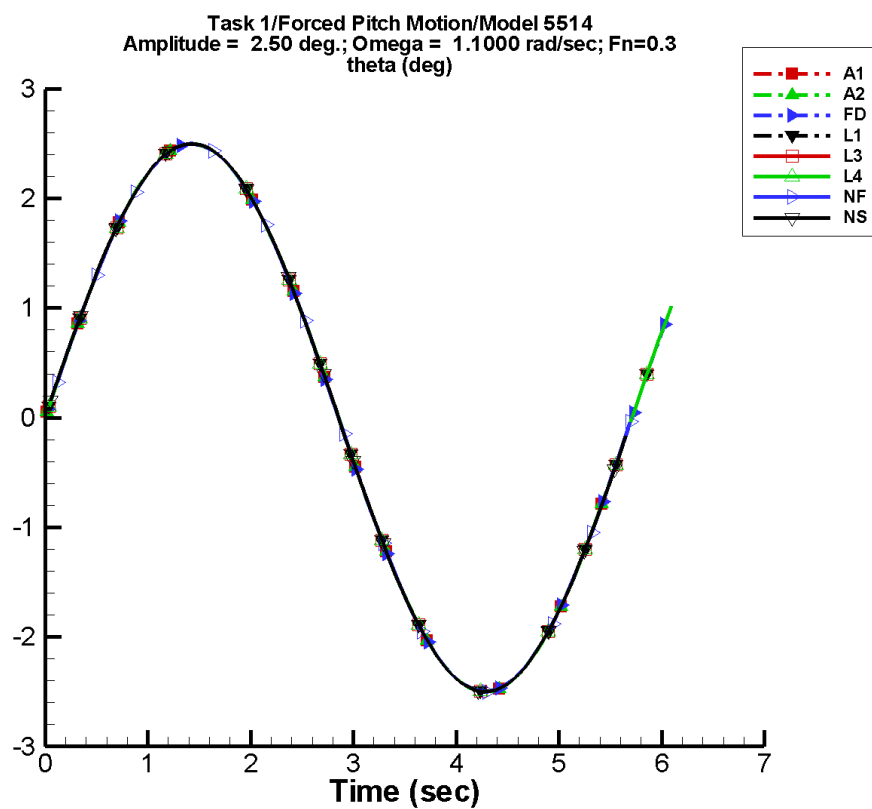


Figure F-28. Time history of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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Table F–55. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.58E-06	2.50	0	4.15E-06	-12
A2	-2.58E-06	2.50	0	4.15E-06	-12
FD	-1.71E-07	2.50	0	6.21E-07	-17
L1	1.78E-04	2.50	0	7.79E-07	61
L3	1.78E-04	2.50	0	7.79E-07	61
L4	1.78E-04	2.50	0	7.79E-07	61
NF	4.99E-04	2.50	4	5.76E-04	120
NS	-3.02E-07	2.50	0	1.91E-07	-91

Table F–56. Minimum and maximum of θ for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-2.50	2.50	-2.42	2.44
A2	-2.50	2.50	-2.42	2.44
FD	-2.50	2.50	-2.42	2.42
L1	-2.50	2.50	-2.47	2.47
L3	-2.50	2.50	-2.47	2.47
L4	-2.50	2.50	-2.47	2.47
NF	-2.50	2.50	-2.38	2.38
NS	-2.50	2.50	-2.47	2.47

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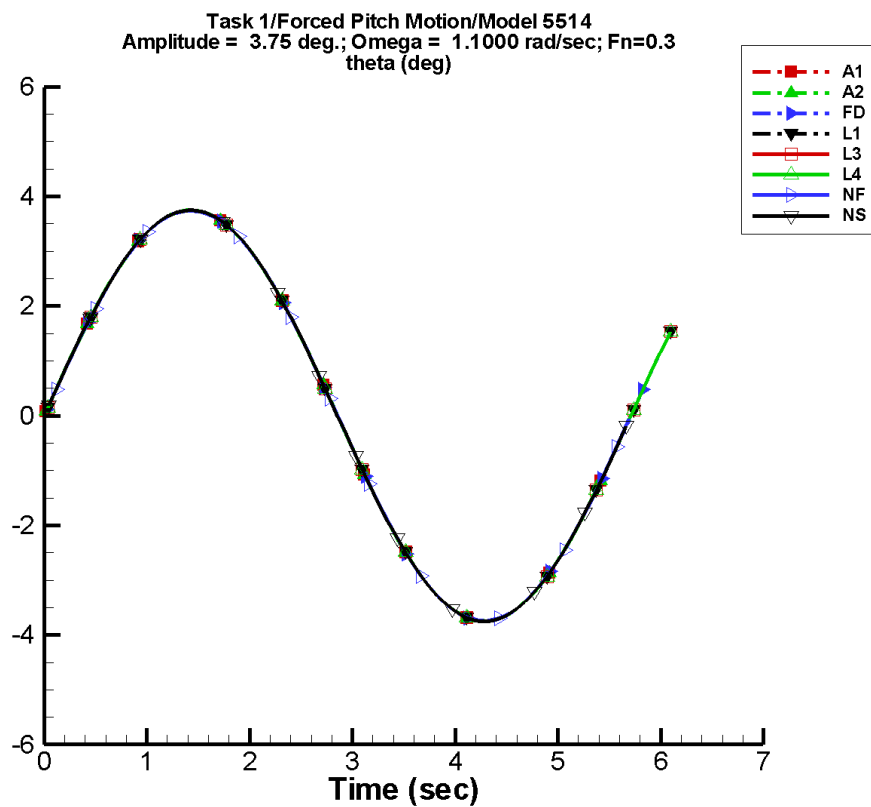


Figure F-29. Time history of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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Table F–57. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.00E-06	3.75	0	5.91E-06	-10
A2	-4.00E-06	3.75	0	5.91E-06	-10
FD	-5.81E-07	3.75	0	7.97E-07	13
L1	2.70E-04	3.75	0	9.76E-07	48
L3	2.70E-04	3.75	0	9.76E-07	48
L4	2.70E-04	3.75	0	9.76E-07	48
NF	7.48E-04	3.74	4	8.65E-04	120
NS	-2.18E-07	3.75	0	2.18E-07	172

Table F–58. Minimum and maximum of θ for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-3.74	3.75	-3.63	3.66
A2	-3.74	3.75	-3.63	3.66
FD	-3.75	3.75	-3.63	3.63
L1	-3.75	3.75	-3.71	3.71
L3	-3.75	3.75	-3.71	3.71
L4	-3.75	3.75	-3.71	3.71
NF	-3.75	3.75	-3.56	3.57
NS	-3.75	3.75	-3.73	3.73

TASK 1/PITCH MOTION/MODEL 5514

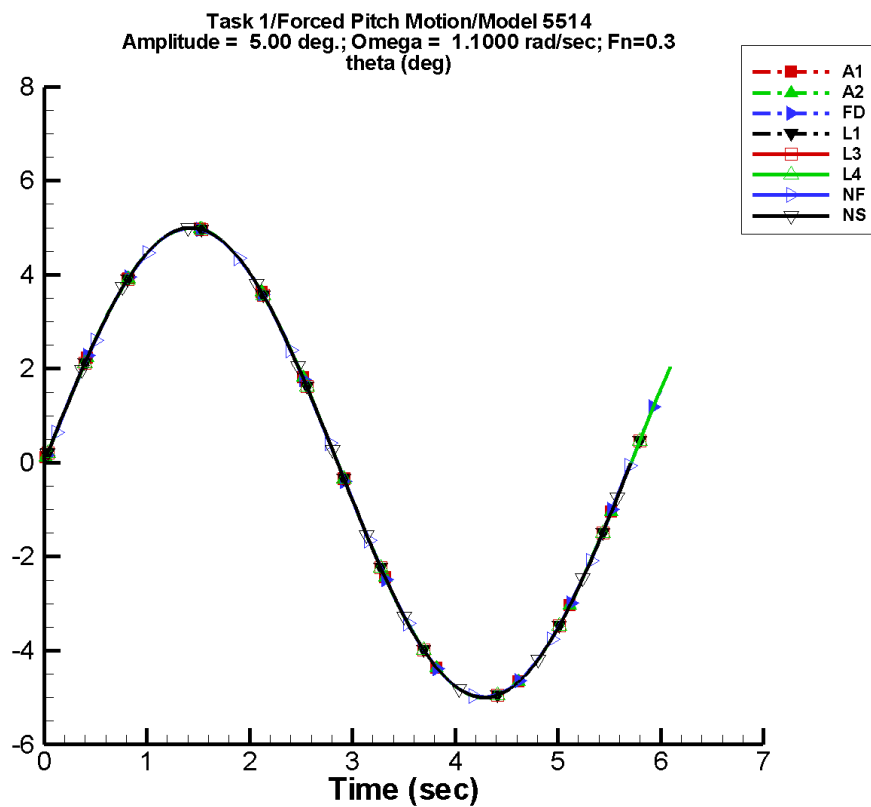


Figure F-30. Time history of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

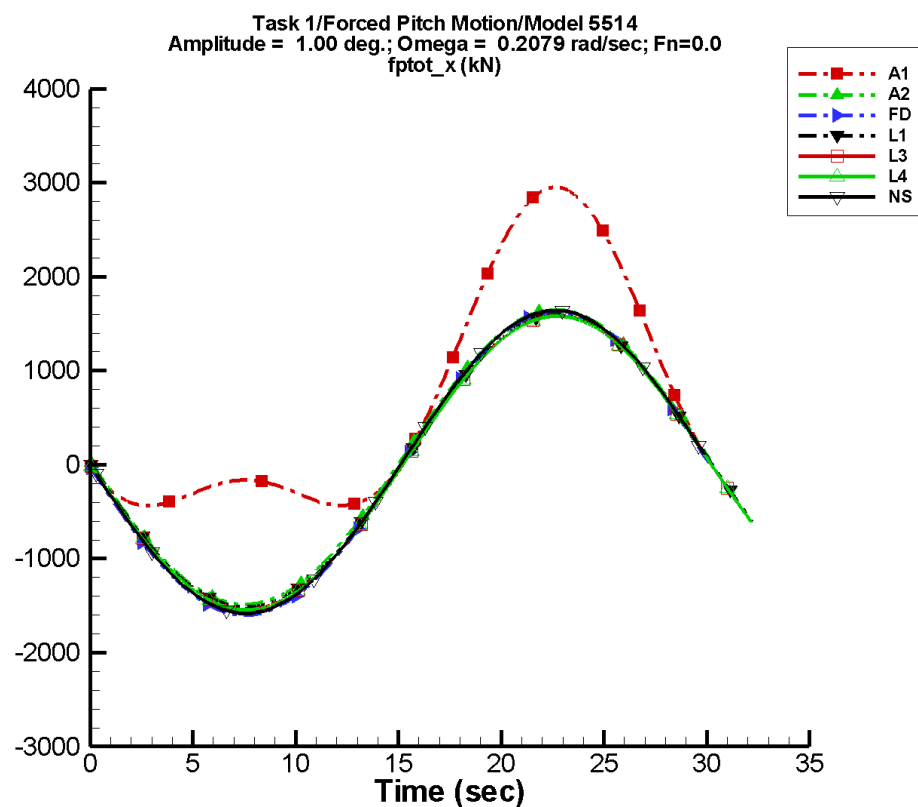
Table F–59. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-5.39E-06	5.00	0	8.25E-06	-11
A2	-5.39E-06	5.00	0	8.25E-06	-11
FD	-2.50E-07	5.00	0	1.09E-06	-8
L1	3.56E-04	5.00	0	7.26E-07	73
L3	3.56E-04	5.00	0	7.26E-07	73
L4	3.56E-04	5.00	0	7.26E-07	73
NF	9.97E-04	4.99	4	1.15E-03	120
NS	6.54E-07	5.00	0	8.77E-07	-8

Table F–60. Minimum and maximum of θ for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.84	4.88
A2	-5.00	5.00	-4.84	4.88
FD	-4.99	5.00	-4.84	4.84
L1	-5.00	5.00	-4.94	4.94
L3	-5.00	5.00	-4.94	4.94
L4	-5.00	5.00	-4.94	4.94
NF	-5.00	4.99	-4.75	4.76
NS	-5.00	5.00	-4.98	4.98

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-31. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

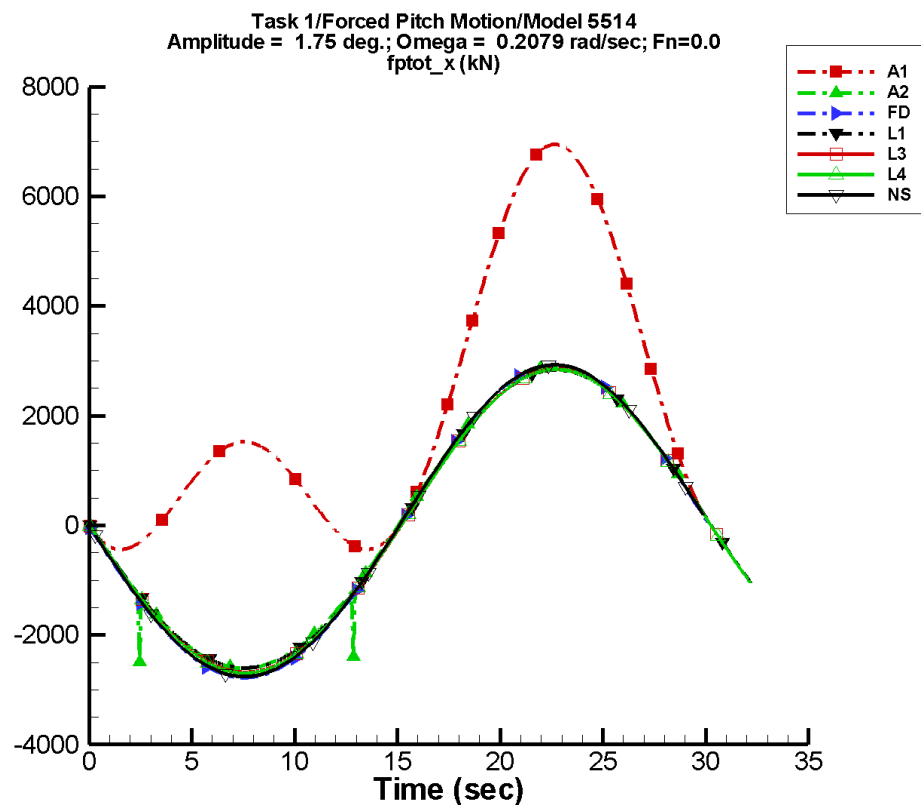
Table F–61. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	697.	1.56E+03	-180	697.	-90
A2	61.4	1.57E+03	-180	20.3	-89
FD	-4.03	1.61E+03	180	17.2	-85
L1	19.4	1.55E+03	179	19.3	-91
L3	2.73	1.56E+03	179	18.2	-91
L4	1.83	1.56E+03	179	15.9	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–62. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-435.	2.95E+03	-433.	2.95E+03
A2	-1.49E+03	1.65E+03	-1.49E+03	1.65E+03
FD	-1.60E+03	1.63E+03	-1.60E+03	1.62E+03
L1	-1.51E+03	1.59E+03	-1.51E+03	1.59E+03
L3	-1.54E+03	1.58E+03	-1.54E+03	1.58E+03
L4	-1.55E+03	1.58E+03	-1.55E+03	1.58E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-32. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

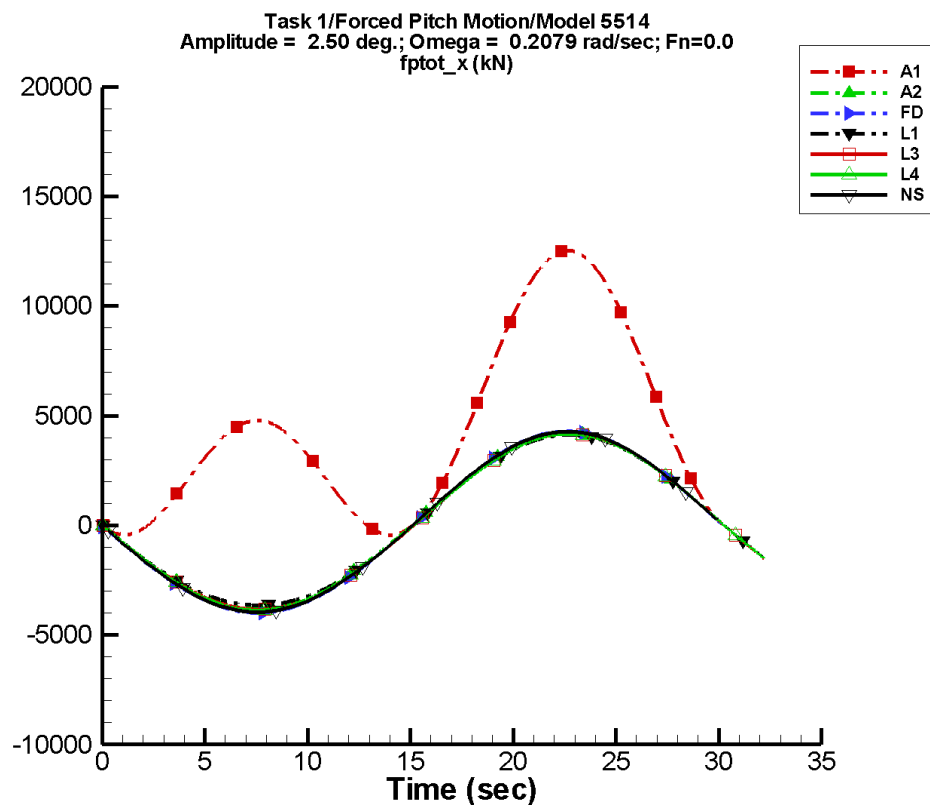
Table F–63. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.12E+03	2.72E+03	-180	2.12E+03	-90
A2	86.6	2.75E+03	-180	60.9	-91
FD	27.8	2.84E+03	180	45.7	-85
L1	59.4	2.72E+03	179	59.2	-91
L3	37.6	2.75E+03	179	47.9	-91
L4	35.1	2.76E+03	179	37.6	-96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–64. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-445.	6.95E+03	-430.	6.94E+03
A2	-2.61E+03	2.89E+03	-2.61E+03	2.89E+03
FD	-2.78E+03	2.92E+03	-2.78E+03	2.92E+03
L1	-2.60E+03	2.84E+03	-2.60E+03	2.84E+03
L3	-2.68E+03	2.85E+03	-2.68E+03	2.85E+03
L4	-2.70E+03	2.84E+03	-2.70E+03	2.84E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-33. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

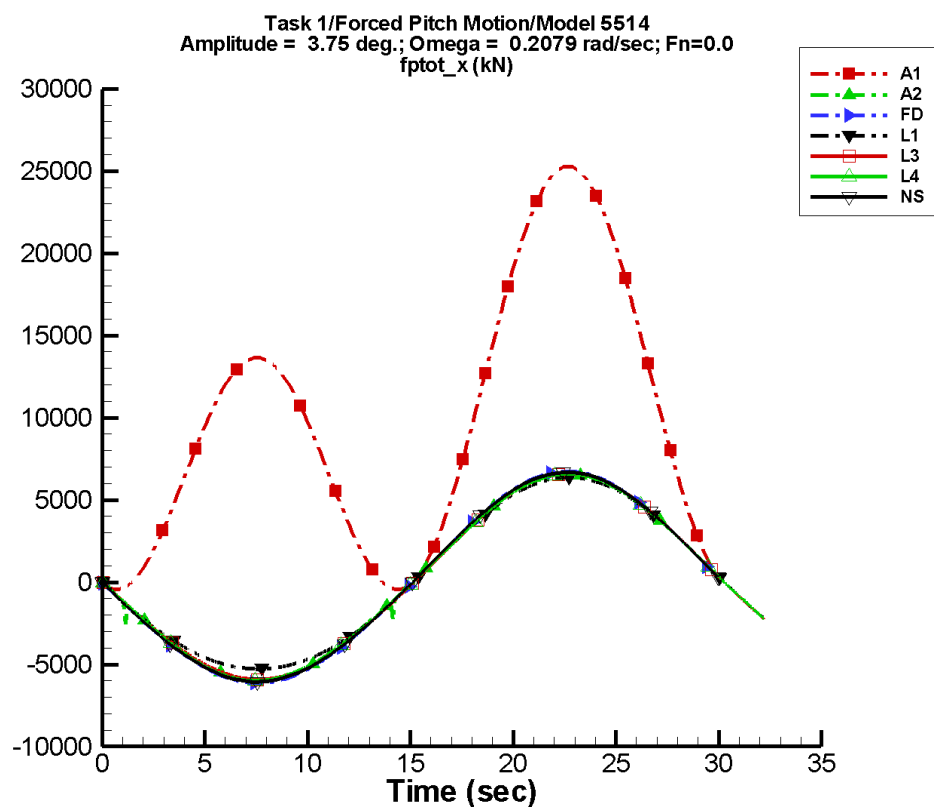
Table F–65. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.33E+03	3.88E+03	-180	4.33E+03	-90
A2	131.	3.97E+03	180	72.5	-87
FD	70.7	4.11E+03	180	81.1	-85
L1	121.	3.88E+03	179	121.	-91
L3	85.4	3.98E+03	179	85.0	-91
L4	80.8	3.99E+03	179	63.2	-99
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–66. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-453.	1.25E+04	-420.	1.25E+04
A2	-3.81E+03	4.20E+03	-3.81E+03	4.19E+03
FD	-3.99E+03	4.29E+03	-3.99E+03	4.28E+03
L1	-3.64E+03	4.12E+03	-3.64E+03	4.12E+03
L3	-3.85E+03	4.19E+03	-3.84E+03	4.19E+03
L4	-3.88E+03	4.18E+03	-3.88E+03	4.18E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-34. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

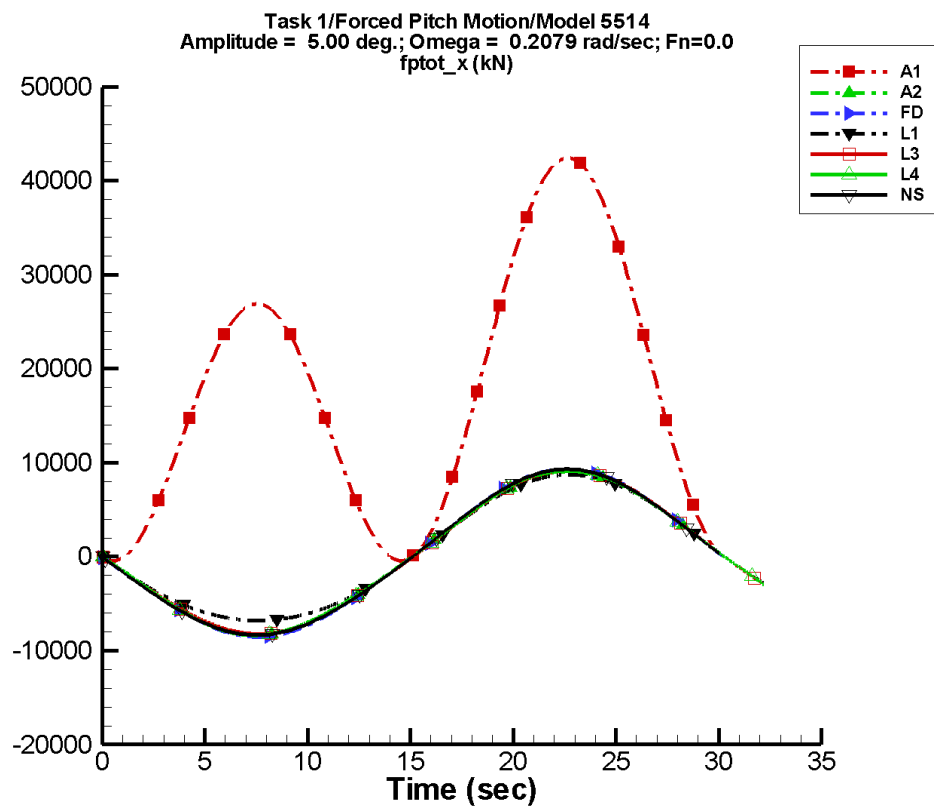
Table F–67. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.74E+03	5.82E+03	-180	9.73E+03	-90
A2	185.	6.15E+03	180	117.	-83
FD	159.	6.34E+03	180	146.	-85
L1	273.	5.82E+03	179	272.	-91
L3	186.	6.16E+03	179	150.	-91
L4	177.	6.17E+03	180	105.	-104
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–68. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-439.	2.53E+04	-397.	2.52E+04
A2	-5.94E+03	6.54E+03	-5.95E+03	6.53E+03
FD	-6.14E+03	6.75E+03	-6.13E+03	6.74E+03
L1	-5.28E+03	6.36E+03	-5.27E+03	6.36E+03
L3	-5.92E+03	6.61E+03	-5.92E+03	6.60E+03
L4	-6.00E+03	6.59E+03	-6.00E+03	6.59E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-35. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

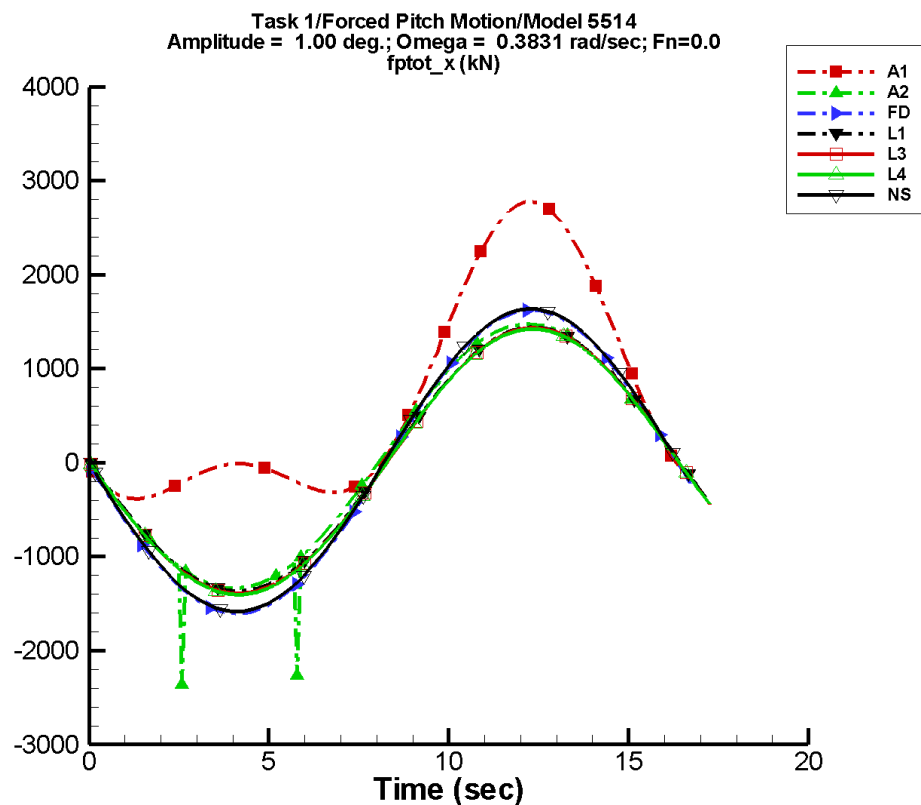
Table F–69. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.73E+04	7.77E+03	-180	1.73E+04	-90
A2	256.	8.47E+03	180	130.	-73
FD	240.	8.73E+03	180	176.	-83
L1	484.	7.76E+03	179	483.	-91
L3	286.	8.49E+03	179	181.	-91
L4	275.	8.51E+03	180	117.	-114
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–70. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-440.	4.24E+04	-365.	4.23E+04
A2	-8.33E+03	9.02E+03	-8.32E+03	9.00E+03
FD	-8.54E+03	9.28E+03	-8.53E+03	9.27E+03
L1	-6.79E+03	8.72E+03	-6.79E+03	8.72E+03
L3	-8.23E+03	9.12E+03	-8.22E+03	9.12E+03
L4	-8.36E+03	9.12E+03	-8.36E+03	9.12E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-36. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

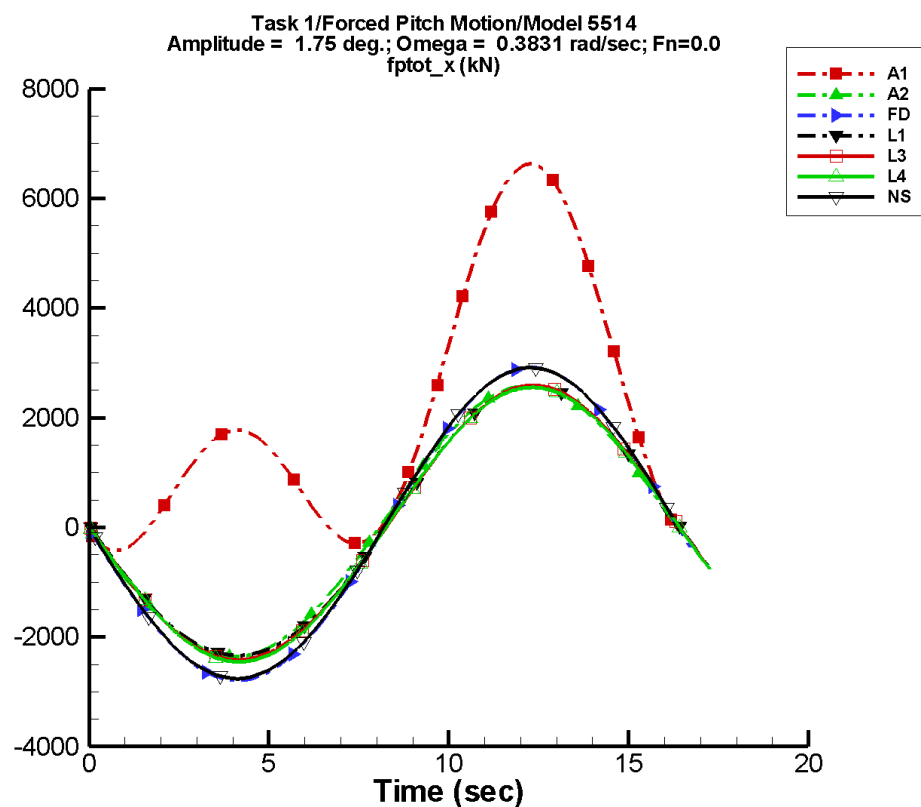
Table F-71. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	693.	1.39E+03	-178	693.	-90
A2	42.0	1.43E+03	-178	5.18	-71
FD	-5.90	1.61E+03	180	15.9	-75
L1	19.2	1.40E+03	179	19.5	-93
L3	2.47	1.41E+03	179	18.7	-92
L4	-3.33	1.41E+03	179	13.2	-77
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-72. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-384.	2.78E+03	-377.	2.76E+03
A2	-2.36E+03	1.47E+03	-1.35E+03	1.47E+03
FD	-1.60E+03	1.62E+03	-1.60E+03	1.62E+03
L1	-1.36E+03	1.44E+03	-1.36E+03	1.44E+03
L3	-1.39E+03	1.43E+03	-1.39E+03	1.43E+03
L4	-1.40E+03	1.42E+03	-1.40E+03	1.42E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-37. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

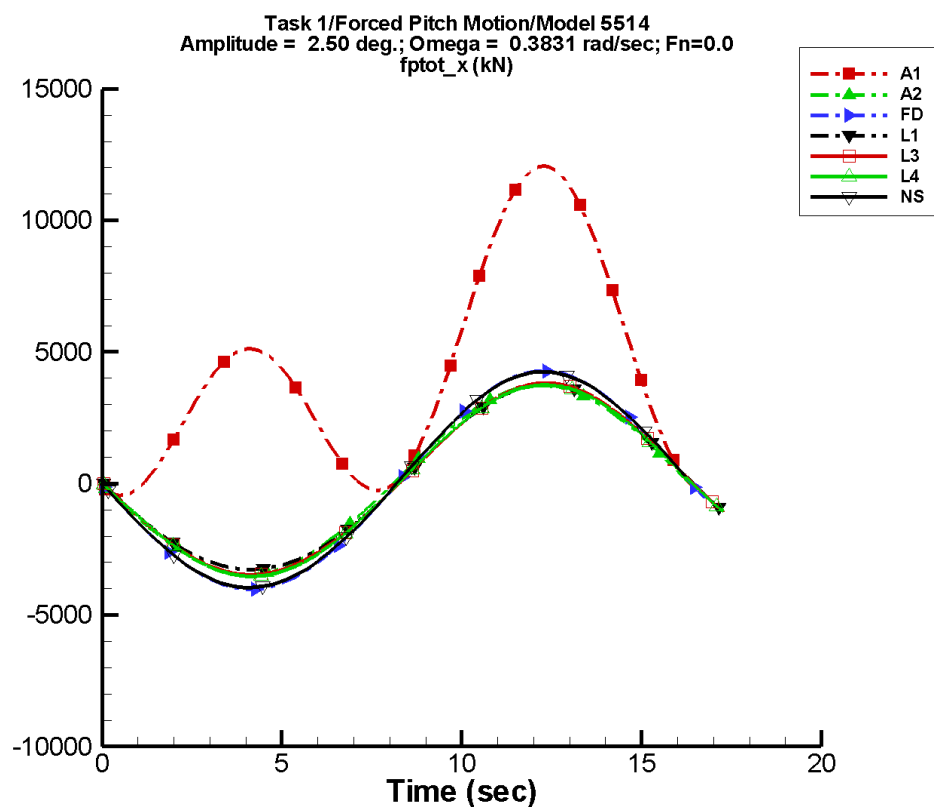
Table F-73. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.10E+03	2.43E+03	-178	2.10E+03	-90
A2	80.5	2.46E+03	-178	37.7	-68
FD	22.1	2.84E+03	180	42.4	-73
L1	58.7	2.46E+03	179	59.7	-93
L3	36.8	2.49E+03	179	50.8	-92
L4	20.7	2.49E+03	179	34.2	-68
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-74. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-420.	6.63E+03	-388.	6.59E+03
A2	-2.36E+03	2.57E+03	-2.36E+03	2.56E+03
FD	-2.79E+03	2.91E+03	-2.78E+03	2.90E+03
L1	-2.34E+03	2.57E+03	-2.33E+03	2.57E+03
L3	-2.42E+03	2.59E+03	-2.41E+03	2.58E+03
L4	-2.45E+03	2.55E+03	-2.45E+03	2.55E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-38. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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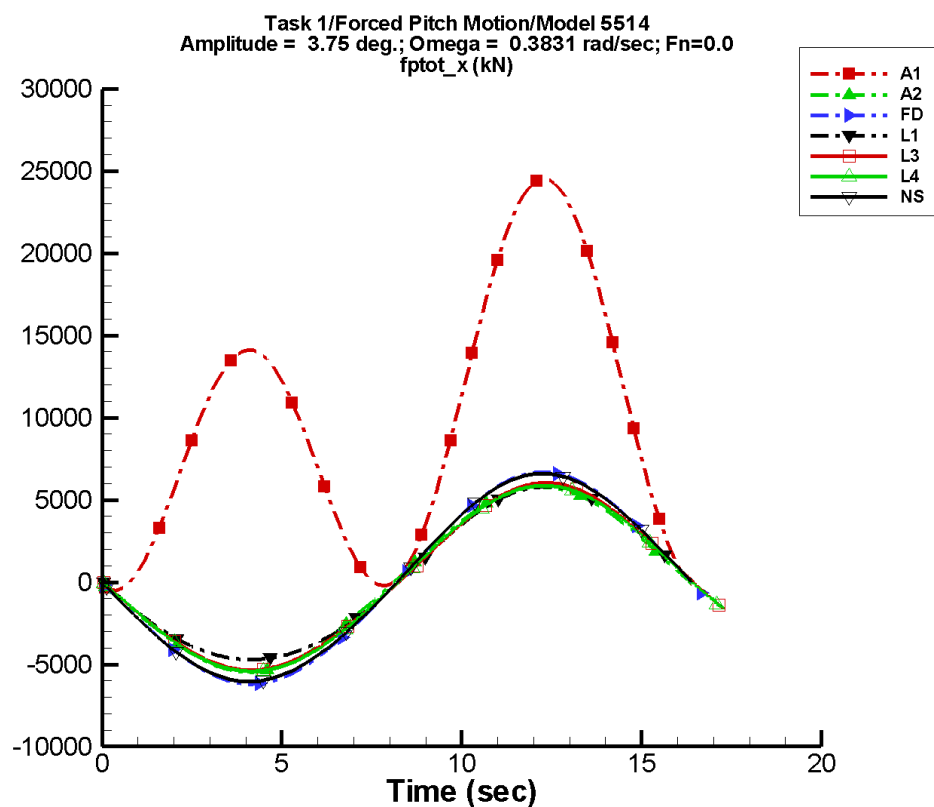
Table F-75. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.30E+03	3.47E+03	-178	4.30E+03	-90
A2	101.	3.56E+03	-178	53.0	-53
FD	59.3	4.11E+03	180	75.2	-71
L1	120.	3.51E+03	179	122.	-93
L3	83.8	3.61E+03	179	92.8	-91
L4	54.5	3.61E+03	179	61.5	-64
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-76. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-454.	1.21E+04	-384.	1.20E+04
A2	-3.47E+03	3.73E+03	-3.47E+03	3.71E+03
FD	-4.01E+03	4.27E+03	-4.00E+03	4.25E+03
L1	-3.27E+03	3.75E+03	-3.26E+03	3.74E+03
L3	-3.47E+03	3.81E+03	-3.47E+03	3.81E+03
L4	-3.53E+03	3.74E+03	-3.52E+03	3.74E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-39. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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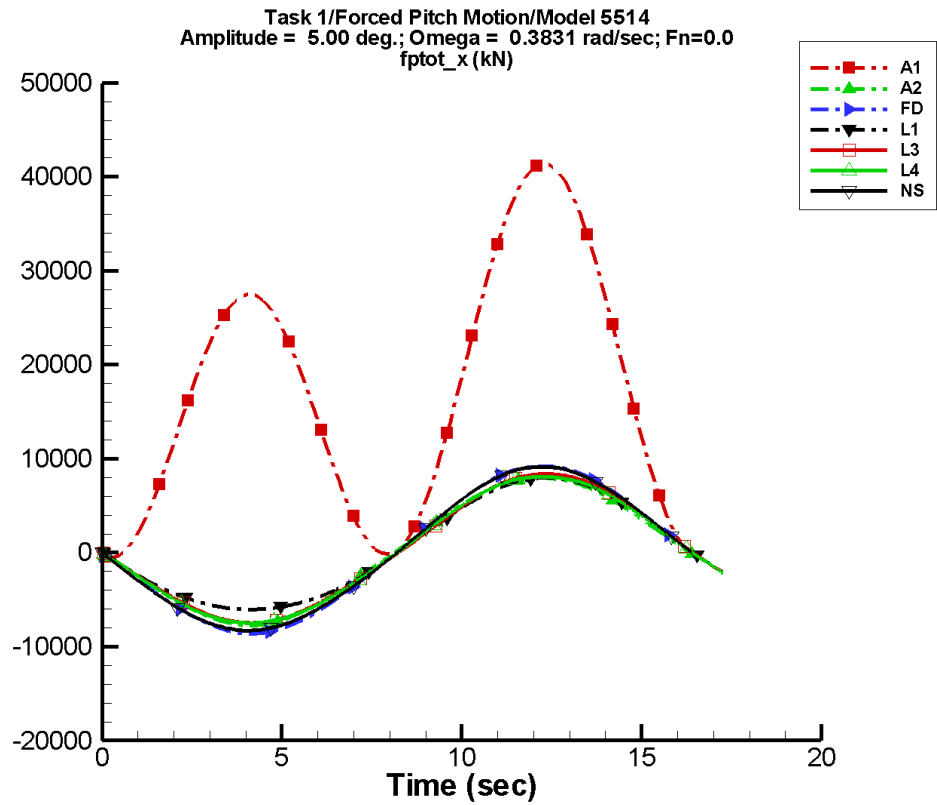
Table F-77. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.67E+03	5.21E+03	-178	9.67E+03	-90
A2	125.	5.53E+03	-179	83.6	-26
FD	133.	6.34E+03	180	136.	-67
L1	269.	5.26E+03	179	274.	-93
L3	182.	5.59E+03	179	174.	-89
L4	127.	5.57E+03	179	114.	-62
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-78. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-502.	2.45E+04	-471.	2.44E+04
A2	-5.47E+03	5.79E+03	-5.49E+03	5.76E+03
FD	-6.19E+03	6.69E+03	-6.17E+03	6.66E+03
L1	-4.71E+03	5.80E+03	-4.71E+03	5.79E+03
L3	-5.36E+03	6.04E+03	-5.35E+03	6.03E+03
L4	-5.42E+03	5.86E+03	-5.41E+03	5.85E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-40. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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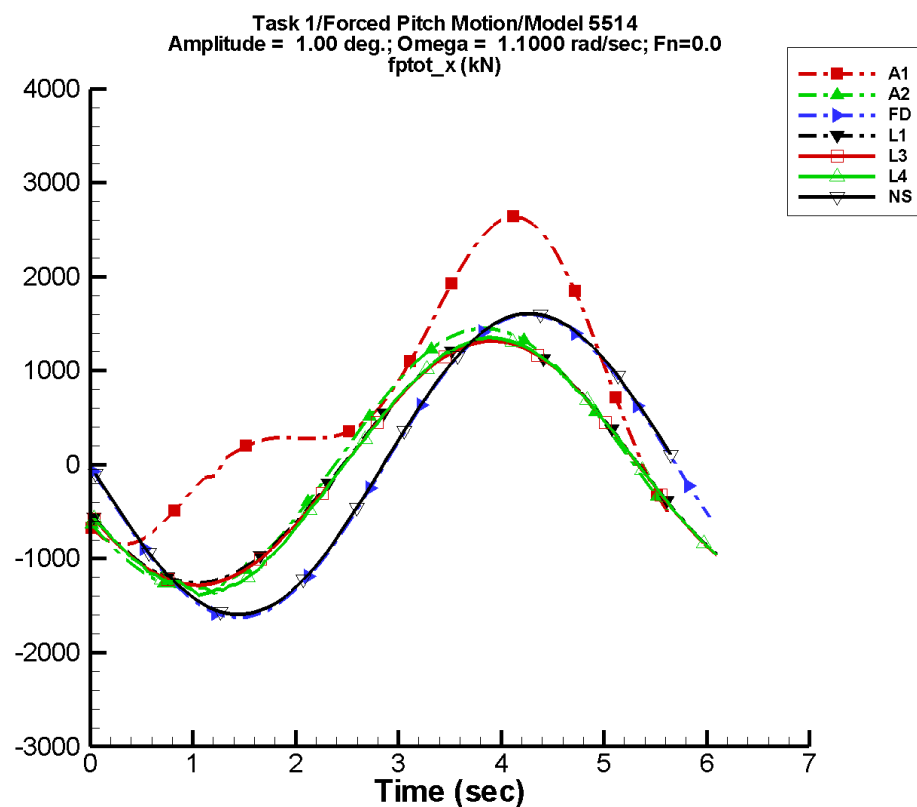
Table F-79. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.72E+04	6.95E+03	-178	1.72E+04	-90
A2	133.	7.67E+03	-179	139.	-1
FD	195.	8.74E+03	180	167.	-56
L1	479.	7.01E+03	179	487.	-93
L3	279.	7.72E+03	179	231.	-87
L4	206.	7.68E+03	180	155.	-58
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-80. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-555.	4.14E+04	-600.	4.11E+04
A2	-7.76E+03	7.95E+03	-7.77E+03	7.92E+03
FD	-8.63E+03	9.19E+03	-8.60E+03	9.15E+03
L1	-6.04E+03	7.97E+03	-6.03E+03	7.96E+03
L3	-7.48E+03	8.37E+03	-7.46E+03	8.36E+03
L4	-7.49E+03	8.07E+03	-7.48E+03	8.06E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-41. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

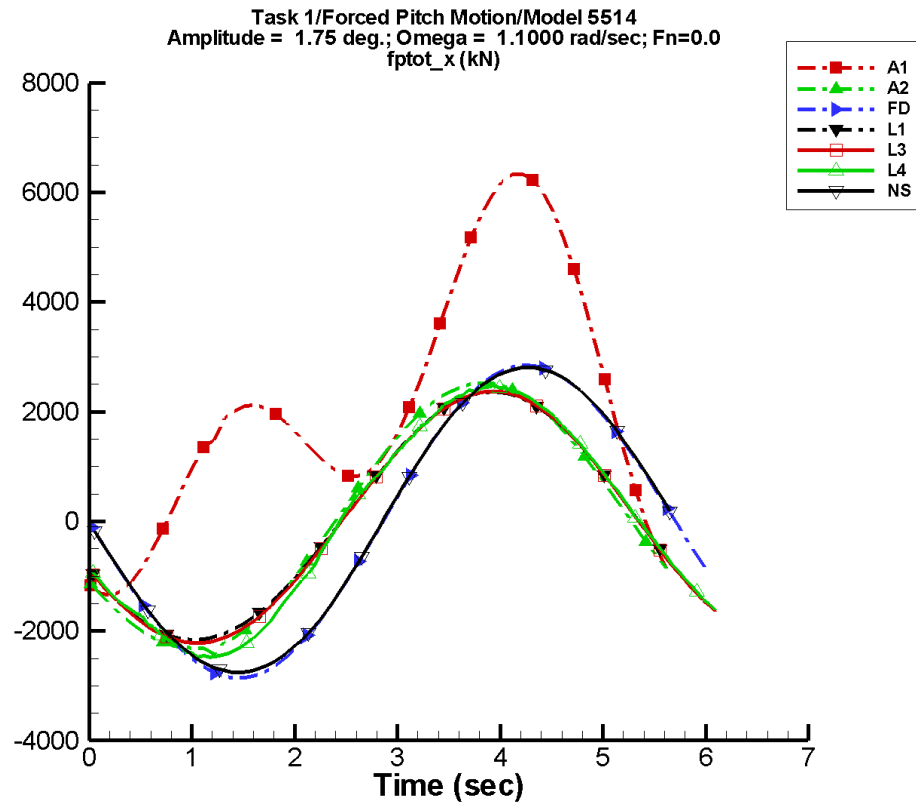
Table F–81. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	686.	1.38E+03	-152	673.	-89
A2	49.9	1.39E+03	-152	12.5	21
FD	-17.1	1.61E+03	180	14.8	-16
L1	25.7	1.29E+03	-156	11.1	-88
L3	9.04	1.30E+03	-156	9.98	-87
L4	-0.497	1.34E+03	-157	18.5	62
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–82. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-854.	2.64E+03	-770.	2.52E+03
A2	-1.38E+03	1.45E+03	-1.31E+03	1.41E+03
FD	-1.63E+03	1.60E+03	-1.58E+03	1.55E+03
L1	-1.26E+03	1.32E+03	-1.24E+03	1.31E+03
L3	-1.28E+03	1.31E+03	-1.27E+03	1.30E+03
L4	-1.39E+03	1.36E+03	-1.34E+03	1.33E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-42. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

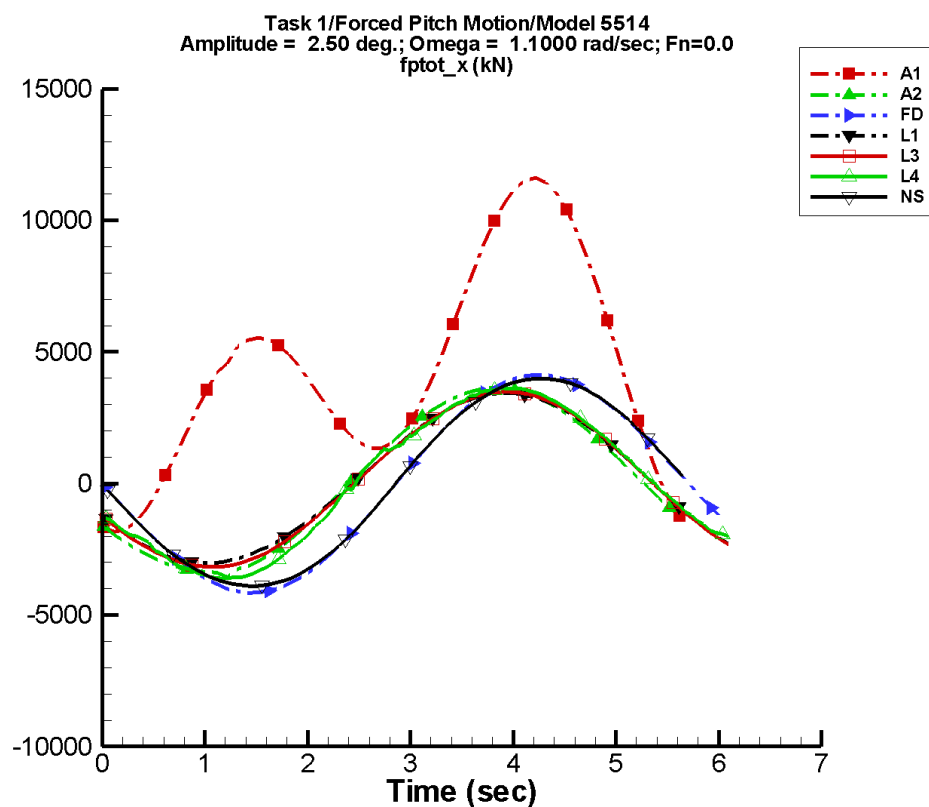
Table F–83. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.08E+03	2.41E+03	-152	2.06E+03	-89
A2	61.1	2.44E+03	-152	35.8	11
FD	-12.2	2.84E+03	180	43.7	-6
L1	78.2	2.26E+03	-156	33.9	-88
L3	56.4	2.29E+03	-156	22.9	-84
L4	30.3	2.41E+03	-158	82.0	70
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–84. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.35E+03	6.34E+03	-1.27E+03	6.02E+03
A2	-2.43E+03	2.52E+03	-2.32E+03	2.45E+03
FD	-2.86E+03	2.84E+03	-2.77E+03	2.75E+03
L1	-2.16E+03	2.36E+03	-2.13E+03	2.34E+03
L3	-2.22E+03	2.37E+03	-2.19E+03	2.34E+03
L4	-2.49E+03	2.47E+03	-2.44E+03	2.42E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-43. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

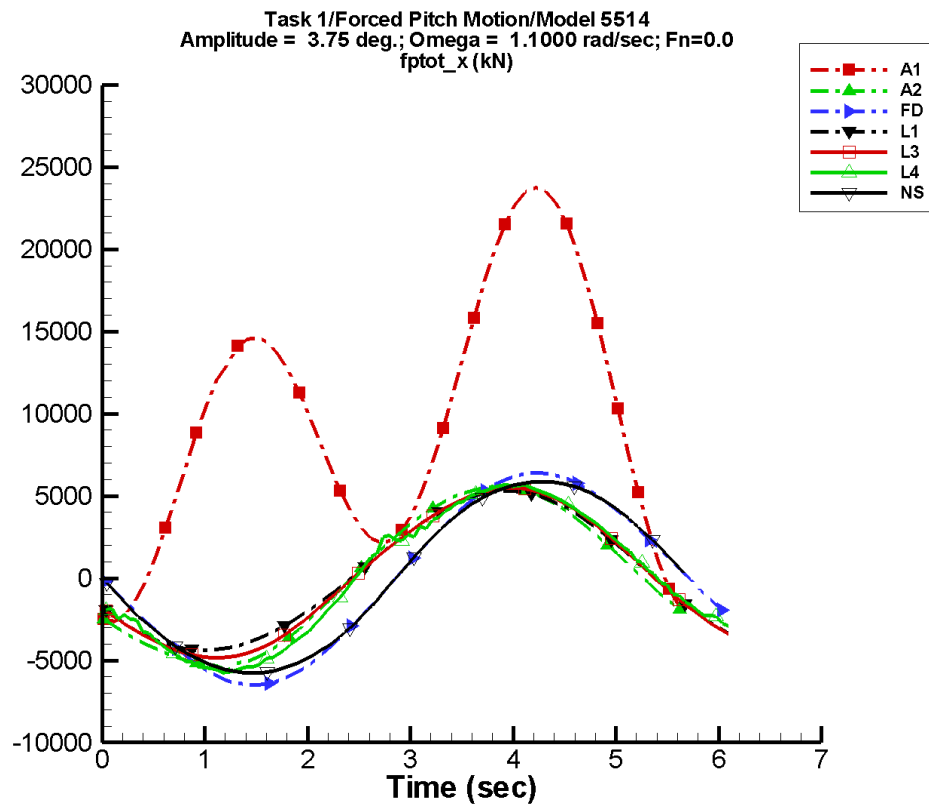
Table F–85. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.26E+03	3.45E+03	-152	4.23E+03	-89
A2	62.4	3.52E+03	-153	80.3	19
FD	-10.9	4.11E+03	180	88.5	2
L1	159.	3.23E+03	-156	69.3	-89
L3	123.	3.32E+03	-157	34.5	-80
L4	70.7	3.52E+03	-159	164.	71
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–86. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.83E+03	1.16E+04	-1.76E+03	1.10E+04
A2	-3.56E+03	3.63E+03	-3.39E+03	3.52E+03
FD	-4.15E+03	4.13E+03	-4.01E+03	4.00E+03
L1	-3.02E+03	3.44E+03	-2.99E+03	3.40E+03
L3	-3.17E+03	3.48E+03	-3.13E+03	3.44E+03
L4	-3.62E+03	3.64E+03	-3.56E+03	3.57E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-44. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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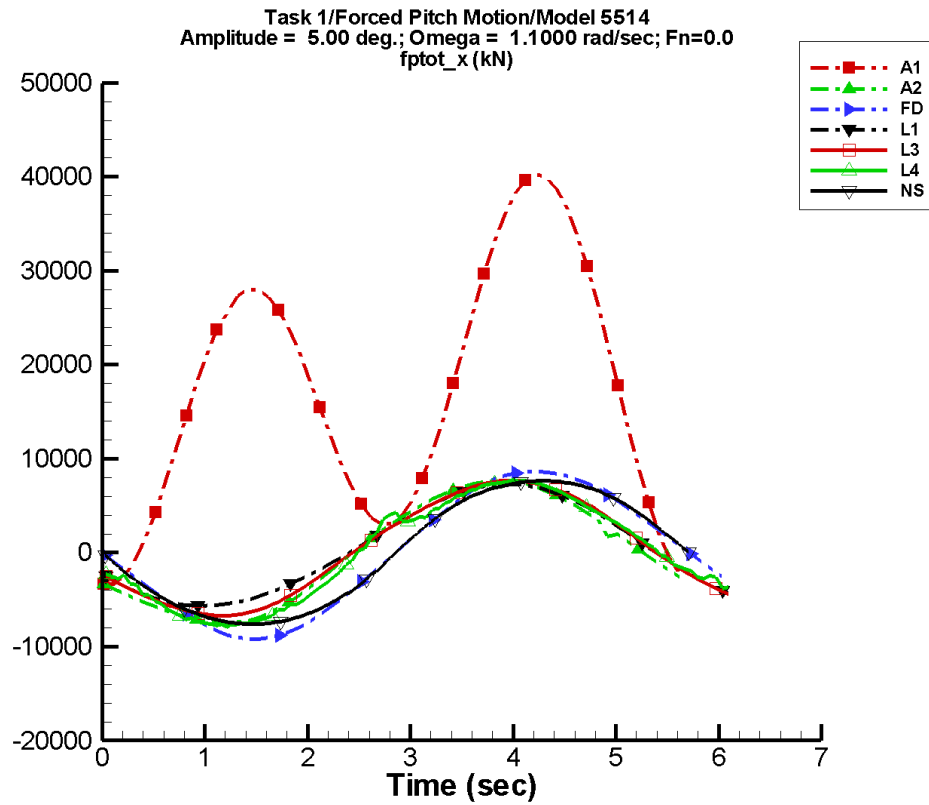
Table F–87. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.58E+03	5.17E+03	-152	9.54E+03	-89
A2	38.7	5.43E+03	-154	198.	27
FD	-24.4	6.34E+03	180	204.	14
L1	357.	4.84E+03	-156	156.	-89
L3	270.	5.14E+03	-158	40.1	-62
L4	149.	5.47E+03	-160	338.	77
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–88. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.63E+03	2.38E+04	-2.48E+03	2.25E+04
A2	-5.61E+03	5.56E+03	-5.37E+03	5.38E+03
FD	-6.51E+03	6.39E+03	-6.27E+03	6.17E+03
L1	-4.38E+03	5.31E+03	-4.33E+03	5.25E+03
L3	-4.85E+03	5.49E+03	-4.79E+03	5.43E+03
L4	-5.74E+03	5.68E+03	-5.55E+03	5.56E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-45. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

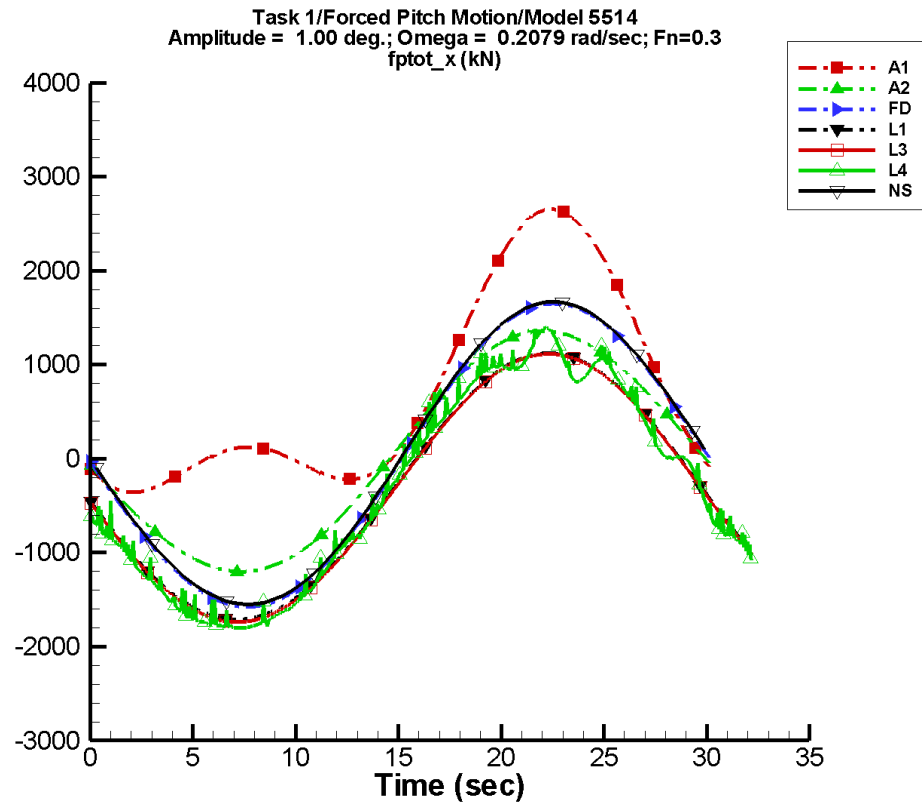
Table F–89. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.71E+04	6.89E+03	-152	1.70E+04	-89
A2	-37.8	7.48E+03	-155	411.	30
FD	-86.1	8.72E+03	180	391.	26
L1	634.	6.45E+03	-156	277.	-89
L3	435.	7.10E+03	-159	49.1	25
L4	159.	7.44E+03	-162	567.	74
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–90. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.37E+03	4.02E+04	-3.11E+03	3.80E+04
A2	-7.88E+03	7.63E+03	-7.57E+03	7.37E+03
FD	-9.21E+03	8.66E+03	-8.84E+03	8.40E+03
L1	-5.64E+03	7.28E+03	-5.58E+03	7.20E+03
L3	-6.72E+03	7.67E+03	-6.64E+03	7.57E+03
L4	-7.80E+03	7.75E+03	-7.60E+03	7.53E+03
NF	—	—	—	—
NS	—	—	—	—

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Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-46. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

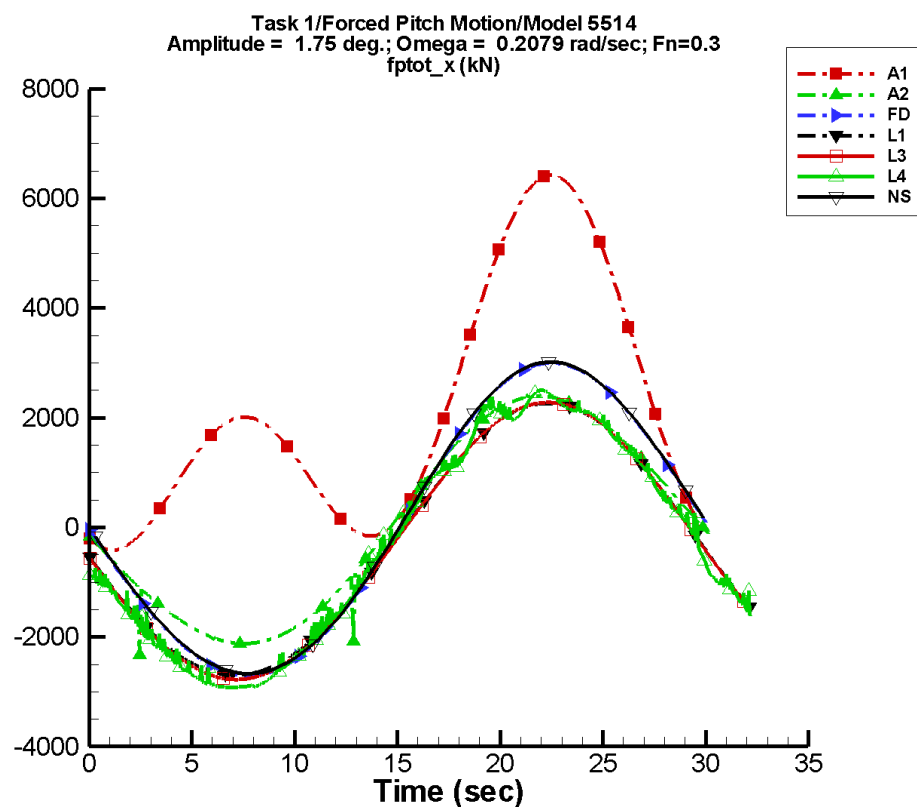
Table F-91. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	694.	1.27E+03	-175	695.	-87
A2	57.6	1.28E+03	-175	39.6	-26
FD	7.63	1.61E+03	180	34.5	-57
L1	-312.	1.42E+03	-175	18.7	-93
L3	-329.	1.42E+03	-176	17.6	-93
L4	-312.	1.47E+03	-173	7.53	-29
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-92. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-358.	2.66E+03	-355.	2.65E+03
A2	-1.20E+03	1.36E+03	-1.20E+03	1.36E+03
FD	-1.58E+03	1.65E+03	-1.58E+03	1.65E+03
L1	-1.71E+03	1.12E+03	-1.71E+03	1.12E+03
L3	-1.74E+03	1.11E+03	-1.74E+03	1.11E+03
L4	-1.80E+03	1.39E+03	-1.80E+03	1.38E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-47. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

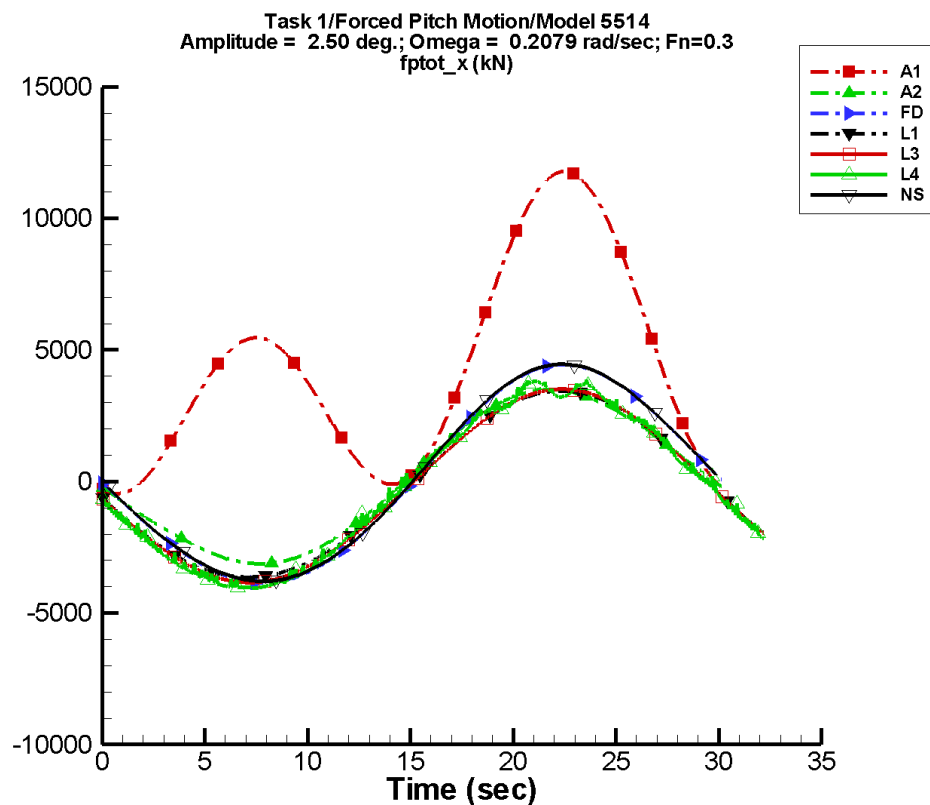
Table F-93. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.11E+03	2.21E+03	-175	2.11E+03	-87
A2	76.6	2.24E+03	-175	117.	-26
FD	63.5	2.84E+03	180	99.5	-55
L1	-272.	2.48E+03	-175	57.3	-93
L3	-294.	2.52E+03	-176	46.0	-93
L4	-283.	2.61E+03	-173	7.84	-22
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-94. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-422.	6.43E+03	-409.	6.42E+03
A2	-2.33E+03	2.40E+03	-2.12E+03	2.39E+03
FD	-2.71E+03	3.00E+03	-2.71E+03	2.99E+03
L1	-2.70E+03	2.26E+03	-2.69E+03	2.26E+03
L3	-2.78E+03	2.28E+03	-2.77E+03	2.28E+03
L4	-2.92E+03	2.50E+03	-2.92E+03	2.49E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-48. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

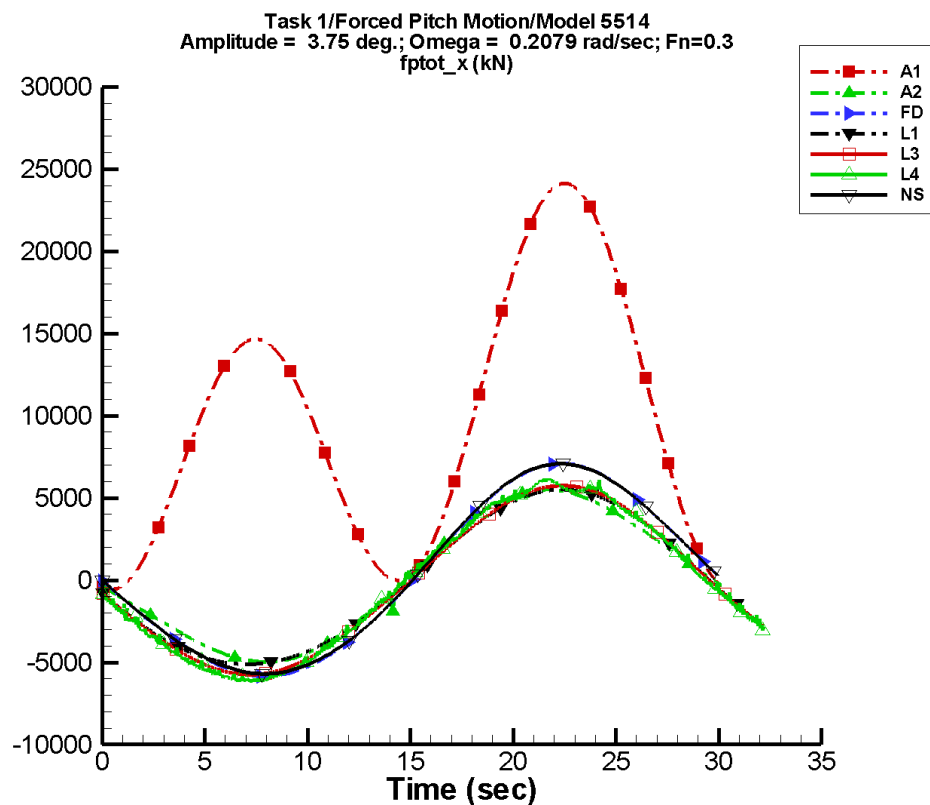
Table F-95. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.31E+03	3.15E+03	-175	4.32E+03	-87
A2	111.	3.24E+03	-175	225.	-14
FD	144.	4.11E+03	180	193.	-53
L1	-209.	3.54E+03	-175	117.	-93
L3	-245.	3.64E+03	-176	81.1	-94
L4	-236.	3.78E+03	-174	13.7	-64
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-96. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-480.	1.18E+04	-461.	1.18E+04
A2	-3.12E+03	3.52E+03	-3.12E+03	3.49E+03
FD	-3.85E+03	4.44E+03	-3.85E+03	4.44E+03
L1	-3.64E+03	3.45E+03	-3.64E+03	3.45E+03
L3	-3.84E+03	3.51E+03	-3.84E+03	3.51E+03
L4	-4.06E+03	3.86E+03	-4.05E+03	3.79E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-49. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

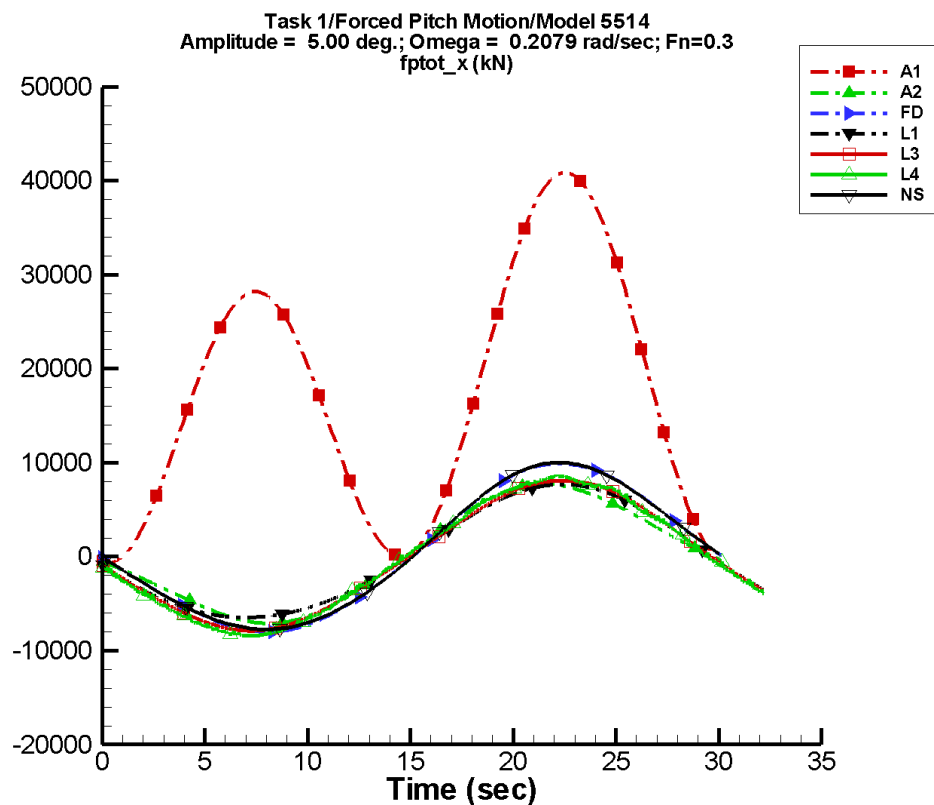
Table F-97. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.69E+03	4.73E+03	-175	9.71E+03	-87
A2	143.	5.05E+03	-176	497.	-9
FD	323.	6.34E+03	180	402.	-50
L1	-56.3	5.31E+03	-175	263.	-93
L3	-143.	5.64E+03	-176	141.	-94
L4	-161.	5.84E+03	-174	49.0	-57
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-98. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-583.	2.41E+04	-540.	2.41E+04
A2	-4.97E+03	5.56E+03	-4.96E+03	5.51E+03
FD	-5.84E+03	7.09E+03	-5.83E+03	7.09E+03
L1	-5.11E+03	5.51E+03	-5.11E+03	5.51E+03
L3	-5.74E+03	5.75E+03	-5.74E+03	5.75E+03
L4	-6.11E+03	6.19E+03	-6.09E+03	6.10E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-50. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

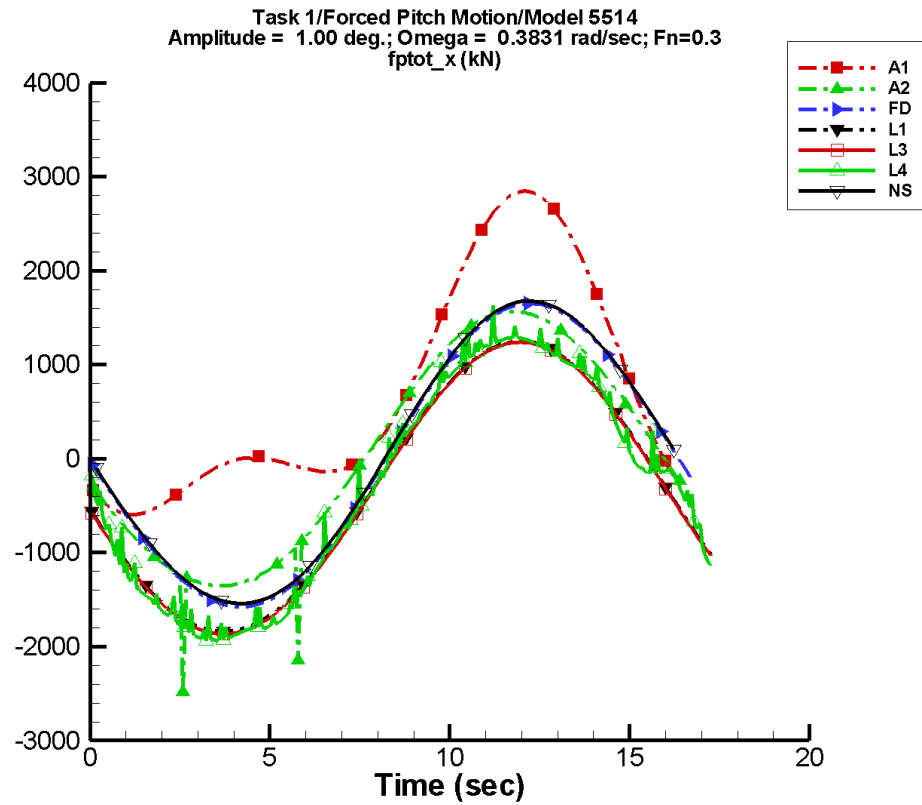
Table F–99. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.73E+04	6.31E+03	-175	1.73E+04	-87
A2	183.	7.01E+03	-176	887.	-4
FD	531.	8.73E+03	180	654.	-45
L1	158.	7.08E+03	-175	467.	-93
L3	-41.0	7.80E+03	-176	166.	-95
L4	-84.3	8.11E+03	-174	72.4	-73
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–100. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-689.	4.09E+04	-683.	4.08E+04
A2	-7.10E+03	7.83E+03	-7.09E+03	7.73E+03
FD	-8.01E+03	9.90E+03	-8.00E+03	9.92E+03
L1	-6.46E+03	7.69E+03	-6.46E+03	7.69E+03
L3	-7.88E+03	8.09E+03	-7.88E+03	8.09E+03
L4	-8.41E+03	8.68E+03	-8.40E+03	8.57E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-51. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

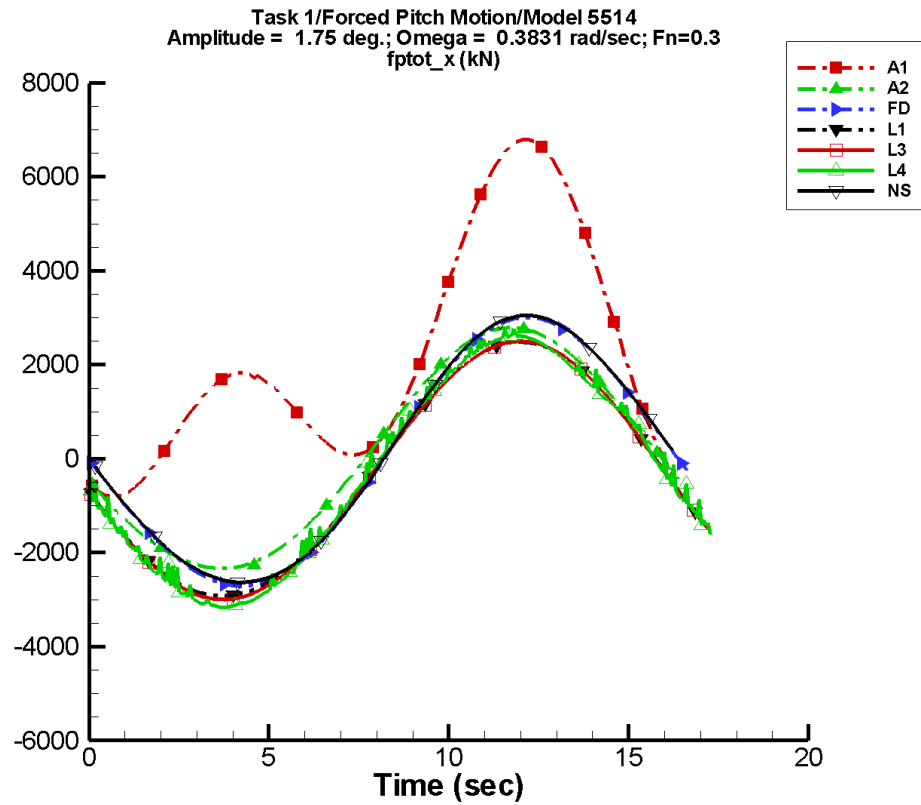
Table F–101. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	709.	1.45E+03	-169	708.	-88
A2	58.2	1.48E+03	-169	27.3	-46
FD	7.86	1.61E+03	180	38.7	-49
L1	-311.	1.54E+03	-172	18.0	-97
L3	-328.	1.55E+03	-172	17.3	-96
L4	-296.	1.60E+03	-172	26.9	52
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–102. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-596.	2.85E+03	-587.	2.83E+03
A2	-2.48E+03	1.57E+03	-1.42E+03	1.56E+03
FD	-1.58E+03	1.65E+03	-1.57E+03	1.64E+03
L1	-1.84E+03	1.25E+03	-1.84E+03	1.25E+03
L3	-1.87E+03	1.24E+03	-1.86E+03	1.24E+03
L4	-1.94E+03	1.63E+03	-1.88E+03	1.30E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure F-52. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

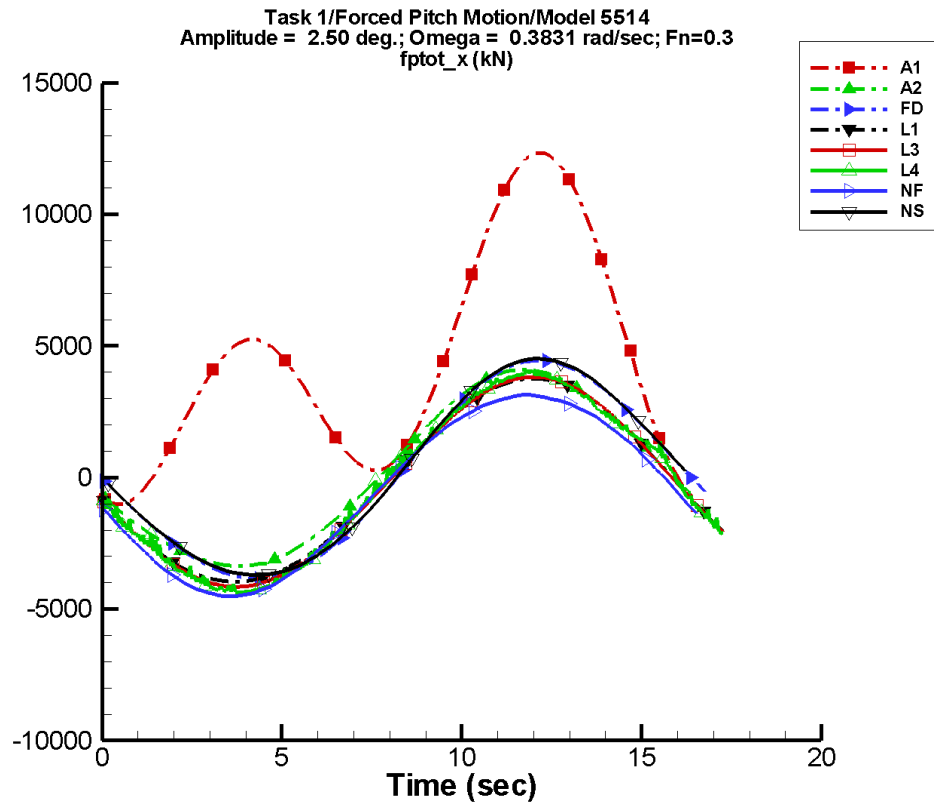
Table F–103. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.15E+03	2.53E+03	-169	2.15E+03	-88
A2	128.	2.56E+03	-169	105.	-50
FD	64.3	2.84E+03	180	113.	-47
L1	-269.	2.70E+03	-172	55.2	-97
L3	-291.	2.74E+03	-172	46.2	-96
L4	-262.	2.81E+03	-172	36.1	39
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–104. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-810.	6.79E+03	-773.	6.75E+03
A2	-2.37E+03	2.79E+03	-2.33E+03	2.78E+03
FD	-2.71E+03	3.00E+03	-2.70E+03	2.99E+03
L1	-2.92E+03	2.48E+03	-2.92E+03	2.48E+03
L3	-3.00E+03	2.50E+03	-2.99E+03	2.49E+03
L4	-3.17E+03	2.76E+03	-3.15E+03	2.64E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NSHIPMO.

Figure F-53. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

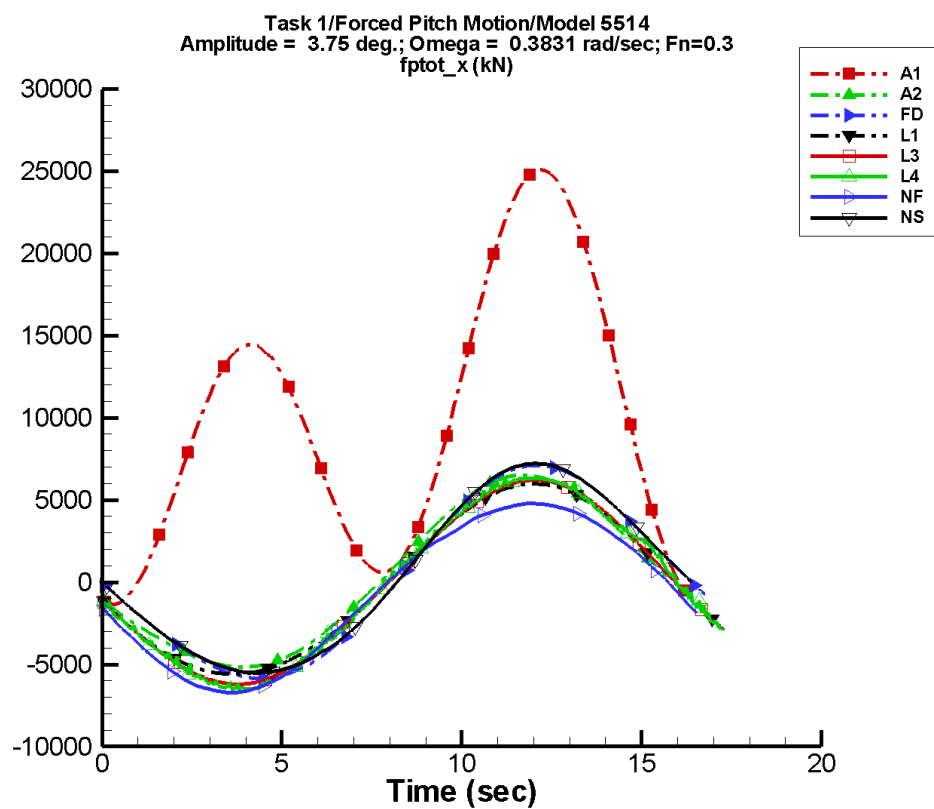
Table F–105. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.40E+03	3.61E+03	-169	4.39E+03	-88
A2	198.	3.70E+03	-169	195.	-44
FD	145.	4.11E+03	180	222.	-45
L1	-203.	3.86E+03	-172	113.	-97
L3	-239.	3.96E+03	-173	83.4	-96
L4	-212.	4.05E+03	-172	29.3	40
NF	-506.	3.82E+03	-157	127.	142
NS	—	—	—	—	—

Table F–106. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.02E+03	1.23E+04	-949.	1.23E+04
A2	-3.39E+03	4.10E+03	-3.36E+03	4.08E+03
FD	-3.86E+03	4.45E+03	-3.84E+03	4.43E+03
L1	-3.96E+03	3.76E+03	-3.95E+03	3.75E+03
L3	-4.15E+03	3.82E+03	-4.15E+03	3.82E+03
L4	-4.37E+03	4.10E+03	-4.34E+03	3.97E+03
NF	-4.52E+03	3.36E+03	-4.49E+03	3.30E+03
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NSHIPMO.

Figure F-54. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–107. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.88E+03	5.41E+03	-169	9.88E+03	-88
A2	340.	5.73E+03	-170	405.	-37
FD	327.	6.34E+03	180	474.	-42
L1	-42.7	5.78E+03	-172	254.	-97
L3	-130.	6.11E+03	-173	153.	-95
L4	-107.	6.24E+03	-173	43.0	-60
NF	-640.	5.71E+03	-158	268.	148
NS	—	—	—	—	—

Table F–108. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.36E+03	2.51E+04	-1.35E+03	2.49E+04
A2	-5.17E+03	6.50E+03	-5.17E+03	6.47E+03
FD	-5.85E+03	7.11E+03	-5.82E+03	7.08E+03
L1	-5.60E+03	5.98E+03	-5.59E+03	5.97E+03
L3	-6.21E+03	6.21E+03	-6.20E+03	6.20E+03
L4	-6.53E+03	6.33E+03	-6.48E+03	6.31E+03
NF	-6.71E+03	5.06E+03	-6.67E+03	5.01E+03
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514

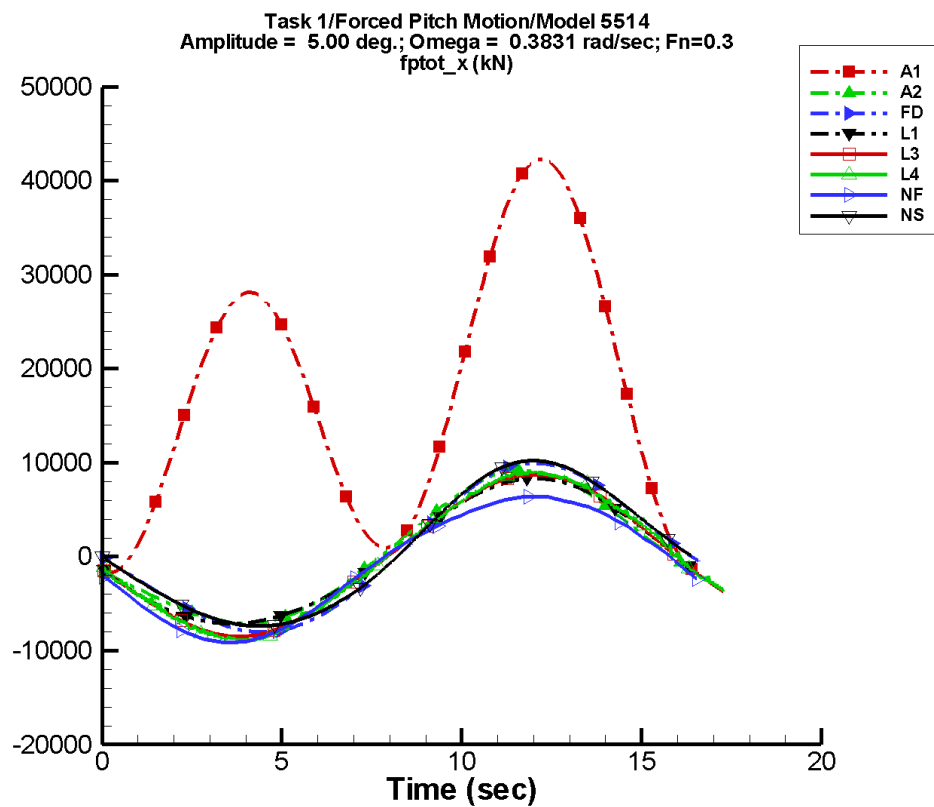


Figure F-55. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

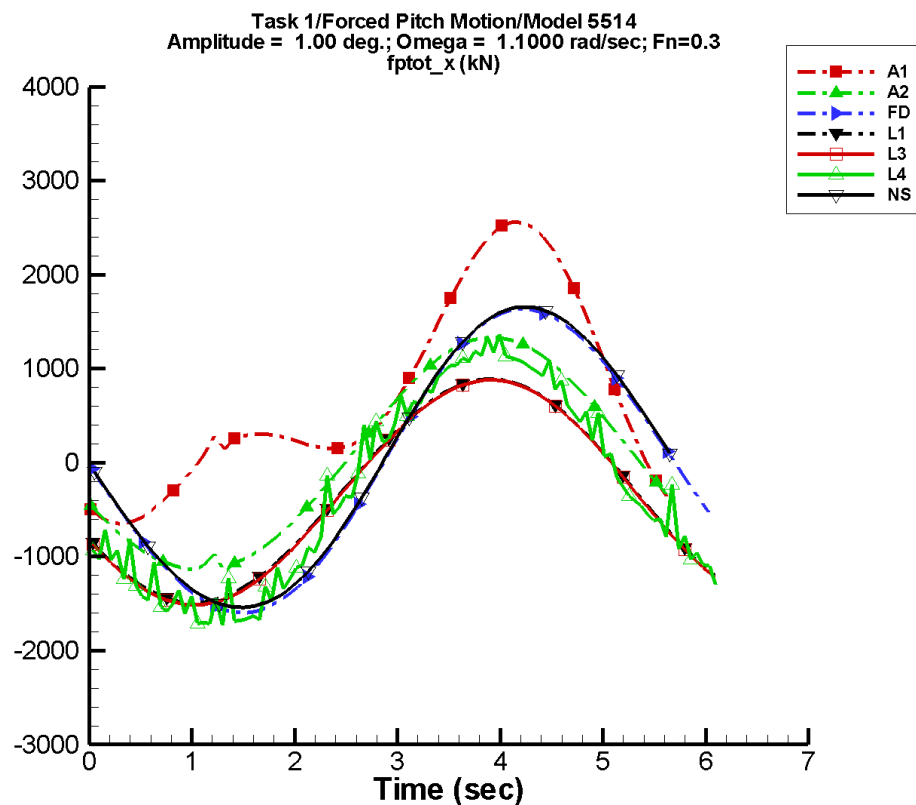
Table F–109. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.76E+04	7.22E+03	-169	1.76E+04	-88
A2	514.	7.92E+03	-170	690.	-33
FD	539.	8.74E+03	180	787.	-38
L1	182.	7.71E+03	-172	450.	-97
L3	-17.9	8.41E+03	-173	192.	-95
L4	-8.46	8.60E+03	-174	89.2	-86
NF	-820.	7.67E+03	-158	481.	153
NS	716.	8.62E+03	-179	915.	-50

Table F–110. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.69E+03	4.23E+04	-1.76E+03	4.20E+04
A2	-7.14E+03	9.16E+03	-7.15E+03	9.12E+03
FD	-8.03E+03	9.95E+03	-8.00E+03	9.91E+03
L1	-7.12E+03	8.31E+03	-7.11E+03	8.30E+03
L3	-8.50E+03	8.71E+03	-8.49E+03	8.70E+03
L4	-8.88E+03	9.12E+03	-8.87E+03	8.92E+03
NF	-9.13E+03	6.75E+03	-9.08E+03	6.71E+03
NS	-7.38E+03	1.02E+04	-7.36E+03	1.02E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-56. Time history of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

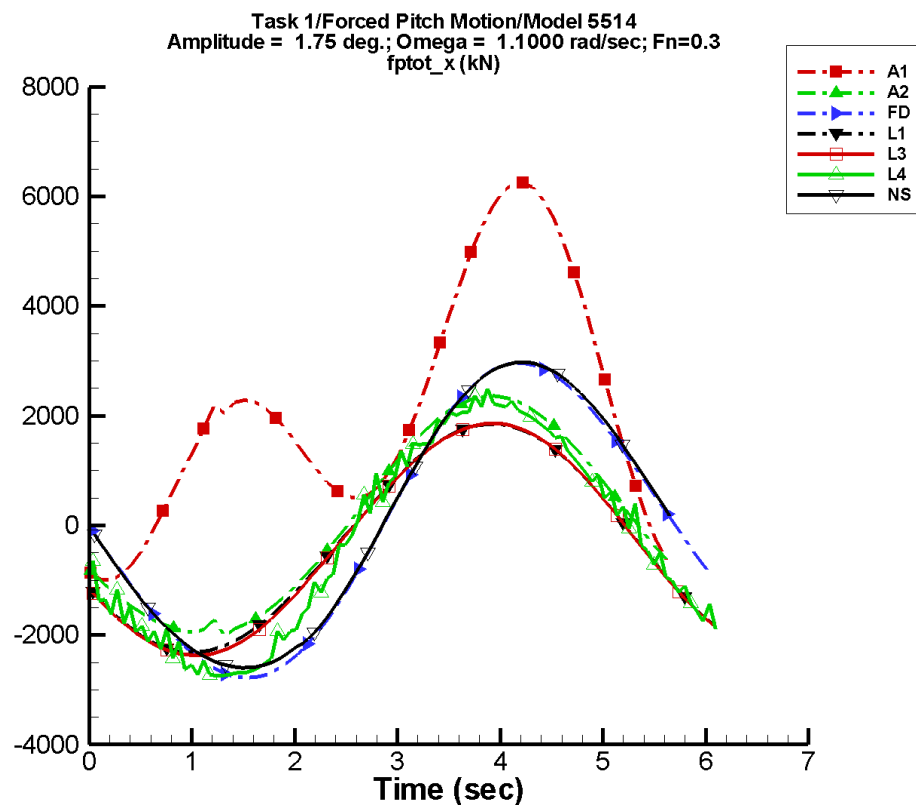
Table F–111. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	693.	1.22E+03	-157	706.	-87
A2	56.5	1.23E+03	-158	47.2	-36
FD	-1.20	1.61E+03	180	59.9	-19
L1	-301.	1.19E+03	-155	11.1	-121
L3	-318.	1.20E+03	-155	10.2	-123
L4	-275.	1.40E+03	-159	109.	10
NF	—	—	—	—	—
NS	29.4	1.60E+03	180	51.3	-36

Table F–112. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-662.	2.56E+03	-581.	2.44E+03
A2	-1.16E+03	1.33E+03	-1.13E+03	1.29E+03
FD	-1.60E+03	1.64E+03	-1.55E+03	1.58E+03
L1	-1.49E+03	890.	-1.48E+03	877.
L3	-1.51E+03	880.	-1.50E+03	867.
L4	-1.73E+03	1.36E+03	-1.66E+03	1.19E+03
NF	—	—	—	—
NS	-1.54E+03	1.66E+03	-1.52E+03	1.64E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-57. Time history of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F–113. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.11E+03	2.13E+03	-157	2.13E+03	-87
A2	86.2	2.15E+03	-158	126.	-29
FD	36.5	2.84E+03	180	181.	-17
L1	-239.	2.08E+03	-155	34.2	-121
L3	-261.	2.11E+03	-156	24.3	-131
L4	-236.	2.43E+03	-161	213.	34
NF	—	—	—	—	—
NS	90.4	2.80E+03	180	158.	-39

Table F–114. Minimum and maximum of F_x^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.01E+03	6.26E+03	-944.	5.93E+03
A2	-2.03E+03	2.36E+03	-1.97E+03	2.28E+03
FD	-2.78E+03	2.96E+03	-2.69E+03	2.86E+03
L1	-2.32E+03	1.85E+03	-2.29E+03	1.83E+03
L3	-2.37E+03	1.86E+03	-2.35E+03	1.83E+03
L4	-2.76E+03	2.50E+03	-2.72E+03	2.23E+03
NF	—	—	—	—
NS	-2.60E+03	2.98E+03	-2.57E+03	2.94E+03

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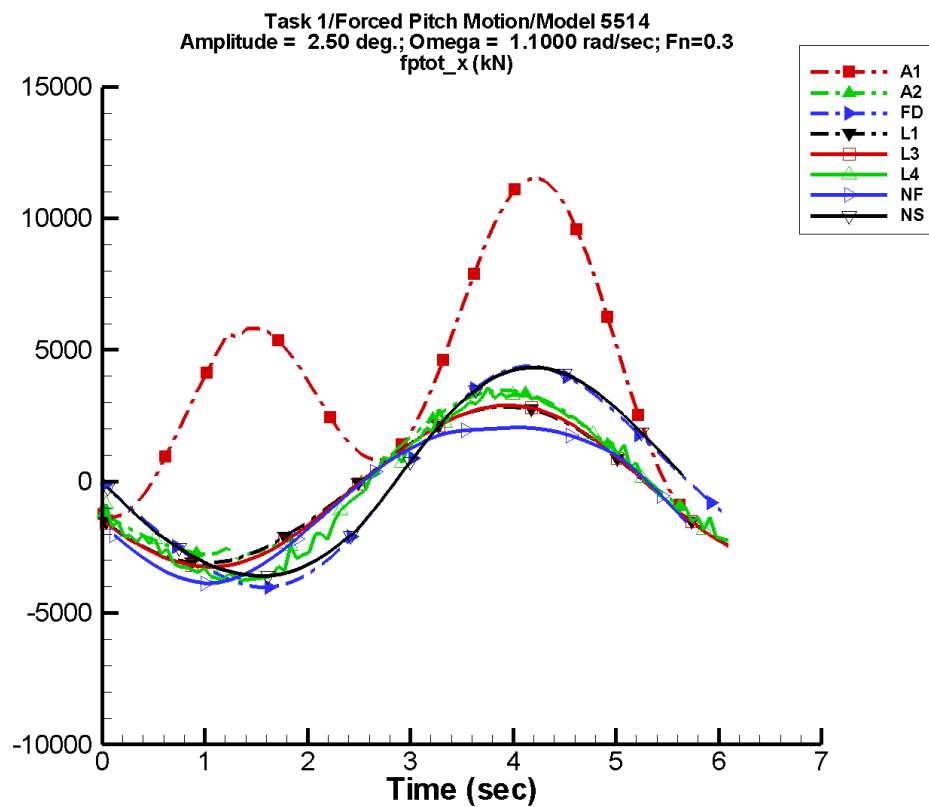


Figure F-58. Time history of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–115. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.32E+03	3.04E+03	-157	4.35E+03	-87
A2	118.	3.12E+03	-158	241.	-22
FD	88.4	4.11E+03	180	366.	-15
L1	-143.	2.97E+03	-155	69.8	-120
L3	-178.	3.06E+03	-156	39.4	-141
L4	-214.	3.45E+03	-162	278.	31
NF	-522.	3.00E+03	-152	368.	156
NS	187.	3.98E+03	-180	300.	-41

Table F–116. Minimum and maximum of F_x^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.37E+03	1.15E+04	-1.28E+03	1.09E+04
A2	-2.95E+03	3.46E+03	-2.85E+03	3.34E+03
FD	-4.01E+03	4.37E+03	-3.87E+03	4.22E+03
L1	-3.11E+03	2.85E+03	-3.07E+03	2.81E+03
L3	-3.25E+03	2.89E+03	-3.22E+03	2.86E+03
L4	-3.77E+03	3.59E+03	-3.67E+03	3.28E+03
NF	-3.87E+03	2.06E+03	-3.66E+03	2.00E+03
NS	-3.59E+03	4.34E+03	-3.56E+03	4.29E+03

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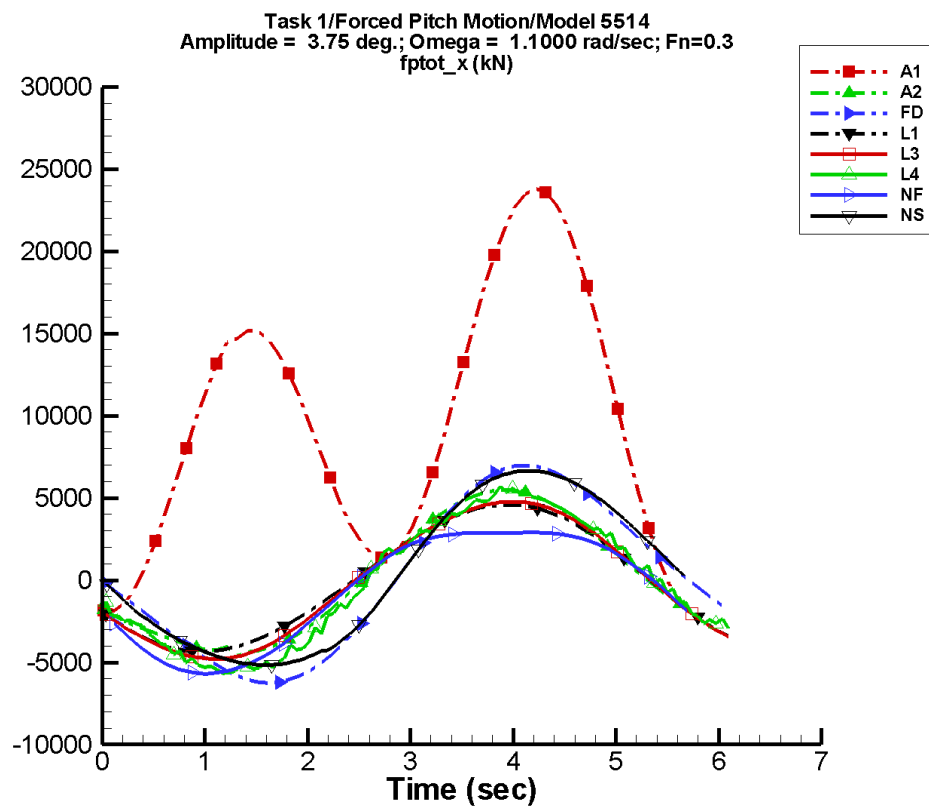


Figure F-59. Time history of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–117. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.71E+03	4.57E+03	-157	9.77E+03	-87
A2	170.	4.85E+03	-159	517.	-15
FD	199.	6.34E+03	180	812.	-12
L1	93.7	4.46E+03	-155	157.	-120
L3	6.71	4.75E+03	-157	64.8	-167
L4	-75.6	5.25E+03	-164	348.	34
NF	-662.	4.42E+03	-153	703.	148
NS	370.	5.96E+03	-180	620.	-40

Table F–118. Minimum and maximum of F_x^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.93E+03	2.38E+04	-1.73E+03	2.25E+04
A2	-4.59E+03	5.49E+03	-4.43E+03	5.28E+03
FD	-6.24E+03	6.98E+03	-6.00E+03	6.71E+03
L1	-4.35E+03	4.59E+03	-4.30E+03	4.54E+03
L3	-4.80E+03	4.77E+03	-4.74E+03	4.72E+03
L4	-5.65E+03	5.72E+03	-5.41E+03	5.33E+03
NF	-5.72E+03	2.89E+03	-5.40E+03	2.90E+03
NS	-5.16E+03	6.65E+03	-5.13E+03	6.61E+03

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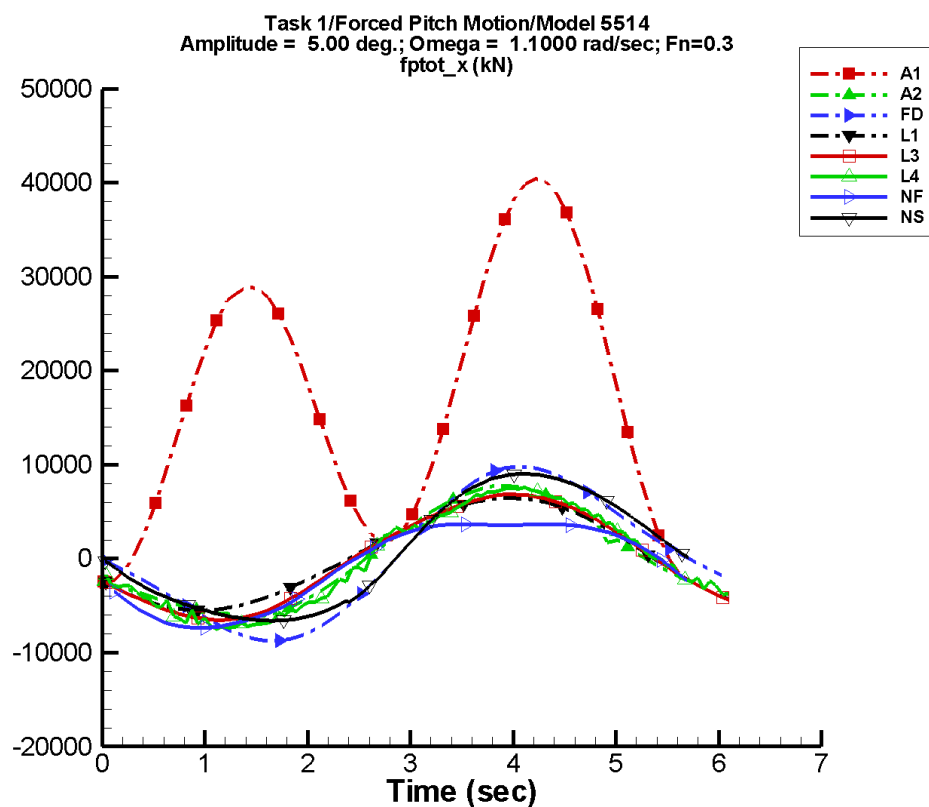


Figure F-60. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

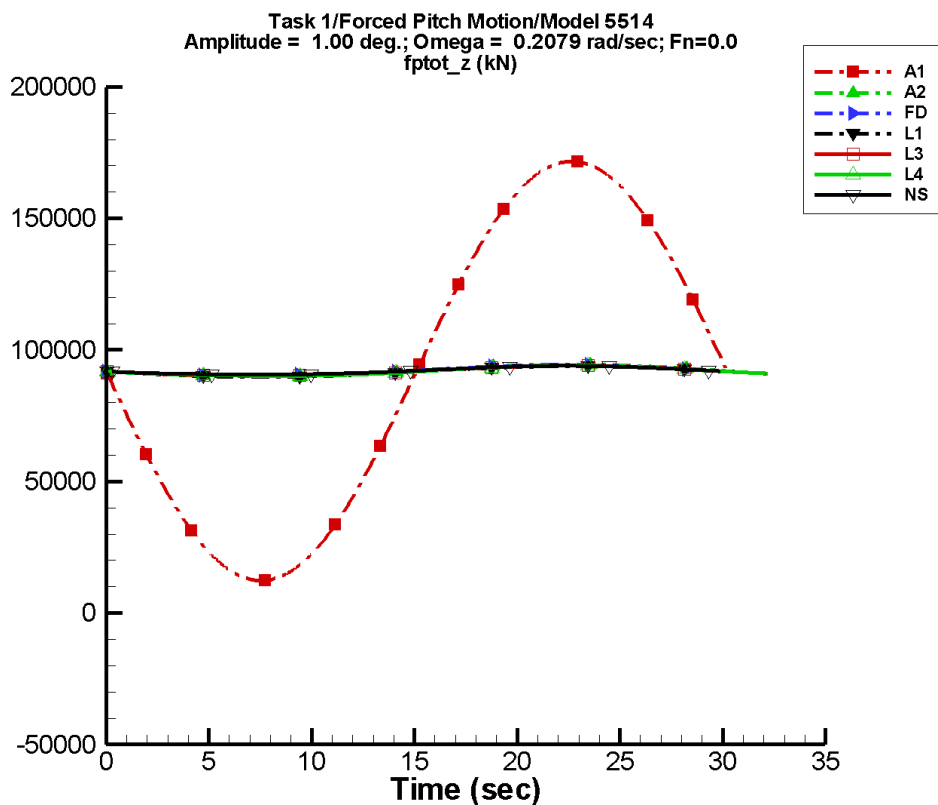
Table F–119. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.73E+04	6.11E+03	-158	1.74E+04	-87
A2	203.	6.72E+03	-160	936.	-9
FD	311.	8.72E+03	180	1.43E+03	-9
L1	424.	5.94E+03	-155	279.	-120
L3	225.	6.59E+03	-158	116.	150
L4	19.2	7.16E+03	-164	400.	26
NF	-834.	5.78E+03	-153	1.06E+03	152
NS	621.	7.91E+03	-179	1.00E+03	-40

Table F–120. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.47E+03	4.04E+04	-2.07E+03	3.81E+04
A2	-6.40E+03	7.77E+03	-6.14E+03	7.45E+03
FD	-8.76E+03	9.79E+03	-8.40E+03	9.39E+03
L1	-5.49E+03	6.44E+03	-5.43E+03	6.37E+03
L3	-6.53E+03	6.83E+03	-6.44E+03	6.74E+03
L4	-7.52E+03	7.59E+03	-7.17E+03	7.35E+03
NF	-7.45E+03	3.68E+03	-7.10E+03	3.63E+03
NS	-6.59E+03	9.01E+03	-6.58E+03	8.98E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-61. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

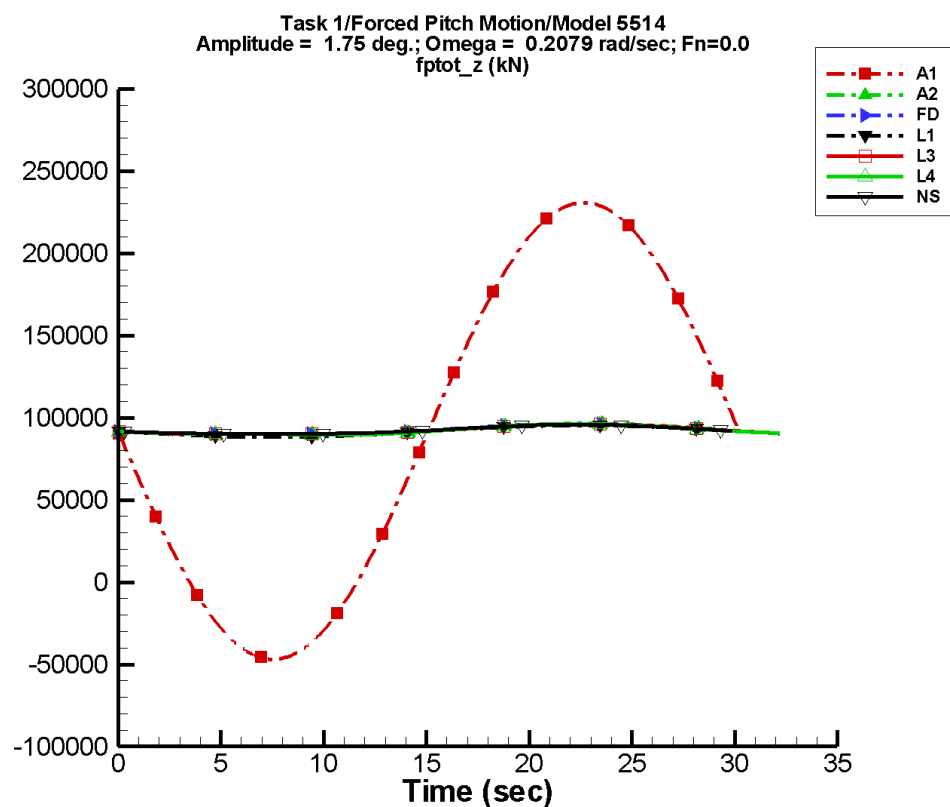
Table F–121. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.97E+04	-180	6.25	94
A2	9.21E+04	2.30E+03	-179	144.	-92
FD	9.22E+04	1.98E+03	-175	189.	-89
L1	9.18E+04	2.05E+03	179	9.12	92
L3	9.20E+04	1.97E+03	179	191.	-92
L4	9.20E+04	1.98E+03	179	229.	-68
NF	—	—	—	—	—
NS	9.22E+04	1.68E+03	-175	171.	-84

Table F–122. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.23E+04	1.72E+05	1.22E+04	1.72E+05
A2	9.00E+04	9.45E+04	9.00E+04	9.45E+04
FD	9.04E+04	9.43E+04	9.04E+04	9.43E+04
L1	8.97E+04	9.38E+04	8.97E+04	9.38E+04
L3	9.02E+04	9.41E+04	9.02E+04	9.41E+04
L4	9.02E+04	9.41E+04	9.02E+04	9.41E+04
NF	—	—	—	—
NS	9.06E+04	9.40E+04	9.06E+04	9.40E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-62. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

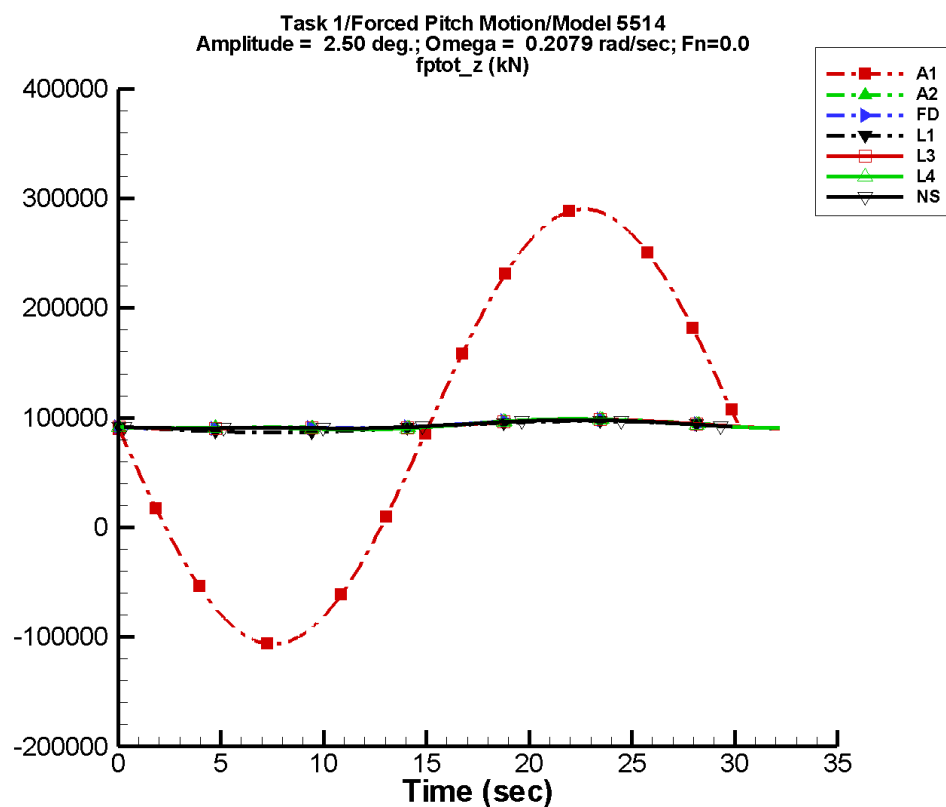
Table F–123. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	-180	18.0	95
A2	9.26E+04	3.46E+03	180	715.	-95
FD	9.27E+04	3.19E+03	-174	697.	-89
L1	9.18E+04	3.58E+03	179	28.1	90
L3	9.24E+04	3.16E+03	179	715.	-92
L4	9.24E+04	3.21E+03	180	850.	-69
NF	—	—	—	—	—
NS	9.25E+04	2.83E+03	-176	530.	-83

Table F–124. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.69E+04	2.31E+05	-4.69E+04	2.31E+05
A2	8.98E+04	9.65E+04	8.98E+04	9.65E+04
FD	9.01E+04	9.64E+04	9.01E+04	9.64E+04
L1	8.82E+04	9.53E+04	8.82E+04	9.53E+04
L3	9.00E+04	9.62E+04	9.00E+04	9.62E+04
L4	8.96E+04	9.63E+04	8.97E+04	9.63E+04
NF	—	—	—	—
NS	9.03E+04	9.58E+04	9.03E+04	9.58E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-63. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

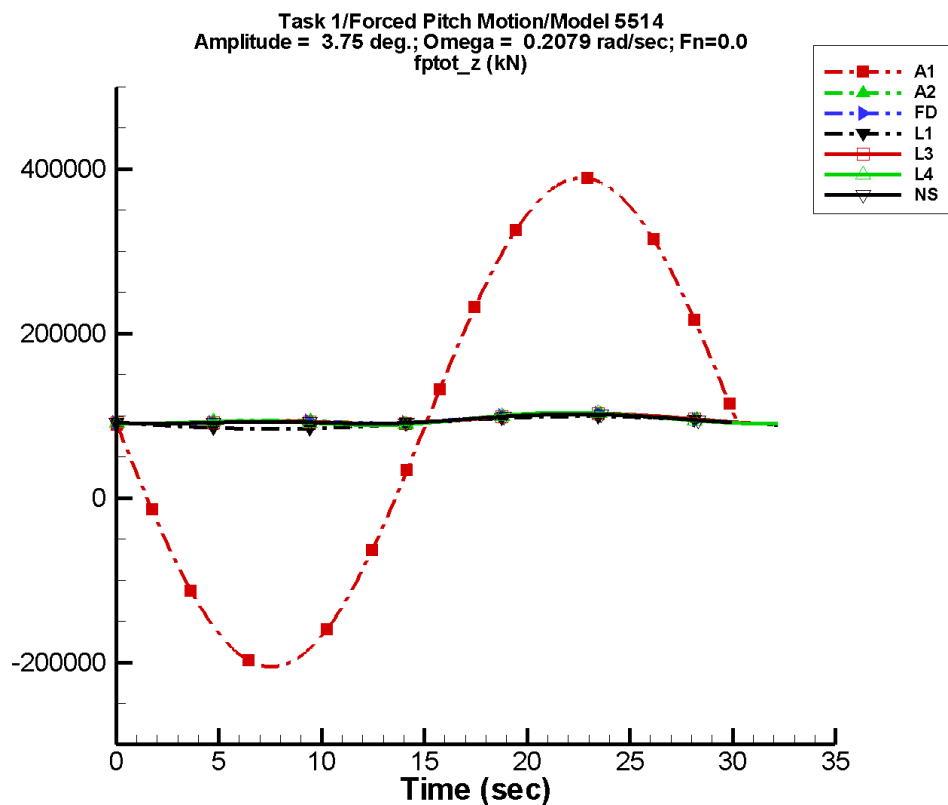
Table F–125. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.98E+05	-180	34.9	97
A2	9.34E+04	4.10E+03	-180	1.65E+03	-94
FD	9.34E+04	4.15E+03	-174	1.48E+03	-89
L1	9.18E+04	5.11E+03	179	57.5	89
L3	9.32E+04	4.10E+03	180	1.51E+03	-92
L4	9.31E+04	4.22E+03	180	1.80E+03	-70
NF	—	—	—	—	—
NS	9.32E+04	3.77E+03	-175	1.14E+03	-83

Table F–126. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.90E+05	-1.07E+05	2.90E+05
A2	8.98E+04	9.87E+04	8.98E+04	9.86E+04
FD	8.99E+04	9.88E+04	8.99E+04	9.87E+04
L1	8.66E+04	9.68E+04	8.66E+04	9.68E+04
L3	9.01E+04	9.85E+04	9.01E+04	9.85E+04
L4	8.92E+04	9.88E+04	8.93E+04	9.88E+04
NF	—	—	—	—
NS	9.03E+04	9.79E+04	9.04E+04	9.79E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-64. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

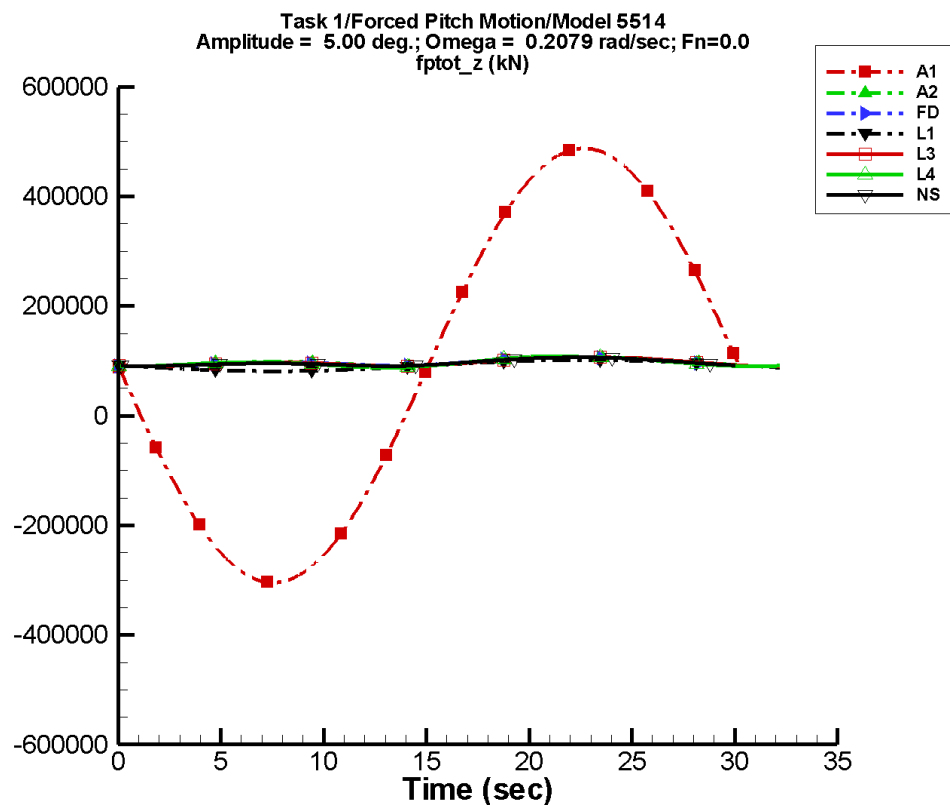
Table F–127. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.97E+05	-180	72.0	101
A2	9.53E+04	4.83E+03	-179	3.59E+03	-93
FD	9.52E+04	5.36E+03	-172	3.28E+03	-89
L1	9.17E+04	7.66E+03	179	129.	89
L3	9.50E+04	5.28E+03	180	3.31E+03	-92
L4	9.48E+04	5.53E+03	180	3.98E+03	-70
NF	—	—	—	—	—
NS	9.47E+04	5.01E+03	-175	2.56E+03	-83

Table F–128. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.05E+05	3.89E+05	-2.05E+05	3.89E+05
A2	8.97E+04	1.03E+05	8.98E+04	1.03E+05
FD	8.97E+04	1.03E+05	8.97E+04	1.03E+05
L1	8.39E+04	9.93E+04	8.39E+04	9.93E+04
L3	9.01E+04	1.03E+05	9.01E+04	1.03E+05
L4	8.85E+04	1.04E+05	8.85E+04	1.04E+05
NF	—	—	—	—
NS	9.04E+04	1.02E+05	9.06E+04	1.02E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-65. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

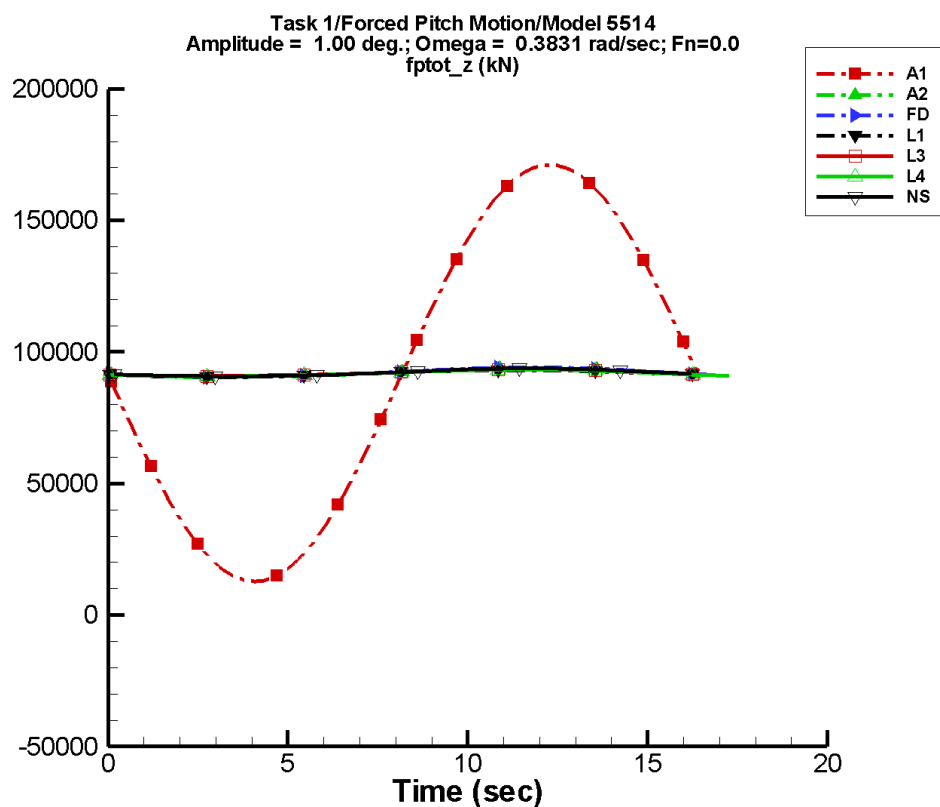
Table F–129. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.96E+05	-180	117.	106
A2	9.76E+04	5.07E+03	-178	5.64E+03	-93
FD	9.73E+04	5.78E+03	-170	5.25E+03	-88
L1	9.17E+04	1.02E+04	179	230.	89
L3	9.72E+04	5.73E+03	-180	5.35E+03	-92
L4	9.69E+04	6.12E+03	-179	6.56E+03	-69
NF	—	—	—	—	—
NS	9.67E+04	5.96E+03	-175	4.38E+03	-83

Table F–130. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.04E+05	4.88E+05	-3.05E+05	4.87E+05
A2	8.97E+04	1.07E+05	8.98E+04	1.06E+05
FD	8.94E+04	1.06E+05	8.95E+04	1.06E+05
L1	8.13E+04	1.02E+05	8.13E+04	1.02E+05
L3	9.01E+04	1.06E+05	9.01E+04	1.06E+05
L4	8.76E+04	1.08E+05	8.77E+04	1.08E+05
NF	—	—	—	—
NS	9.05E+04	1.06E+05	9.08E+04	1.06E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-66. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

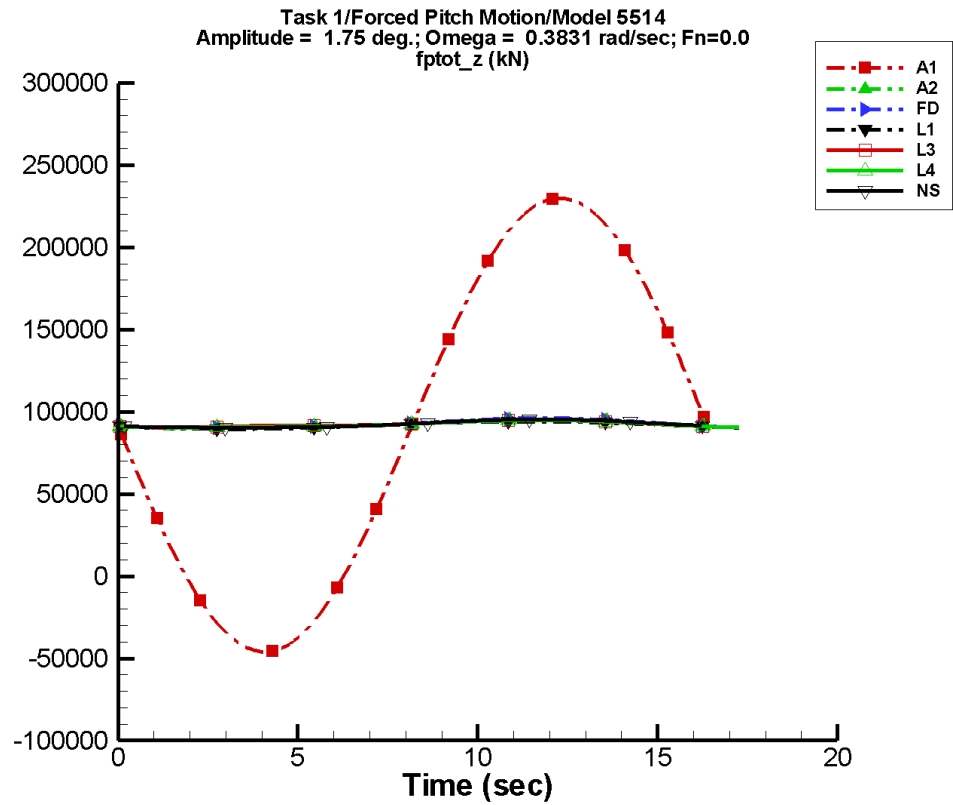
Table F–131. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.92E+04	-180	6.26	74
A2	9.21E+04	1.82E+03	-166	141.	-97
FD	9.22E+04	1.83E+03	-164	187.	-90
L1	9.18E+04	1.32E+03	-159	16.2	86
L3	9.20E+04	1.25E+03	-157	179.	-93
L4	9.19E+04	1.30E+03	-159	138.	-84
NF	—	—	—	—	—
NS	9.21E+04	1.50E+03	-166	146.	-73

Table F–132. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.28E+04	1.71E+05	1.26E+04	1.71E+05
A2	9.01E+04	9.40E+04	9.04E+04	9.40E+04
FD	9.05E+04	9.42E+04	9.05E+04	9.42E+04
L1	9.05E+04	9.31E+04	9.05E+04	9.31E+04
L3	9.08E+04	9.33E+04	9.08E+04	9.33E+04
L4	9.07E+04	9.33E+04	9.07E+04	9.33E+04
NF	—	—	—	—
NS	9.08E+04	9.38E+04	9.08E+04	9.38E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-67. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

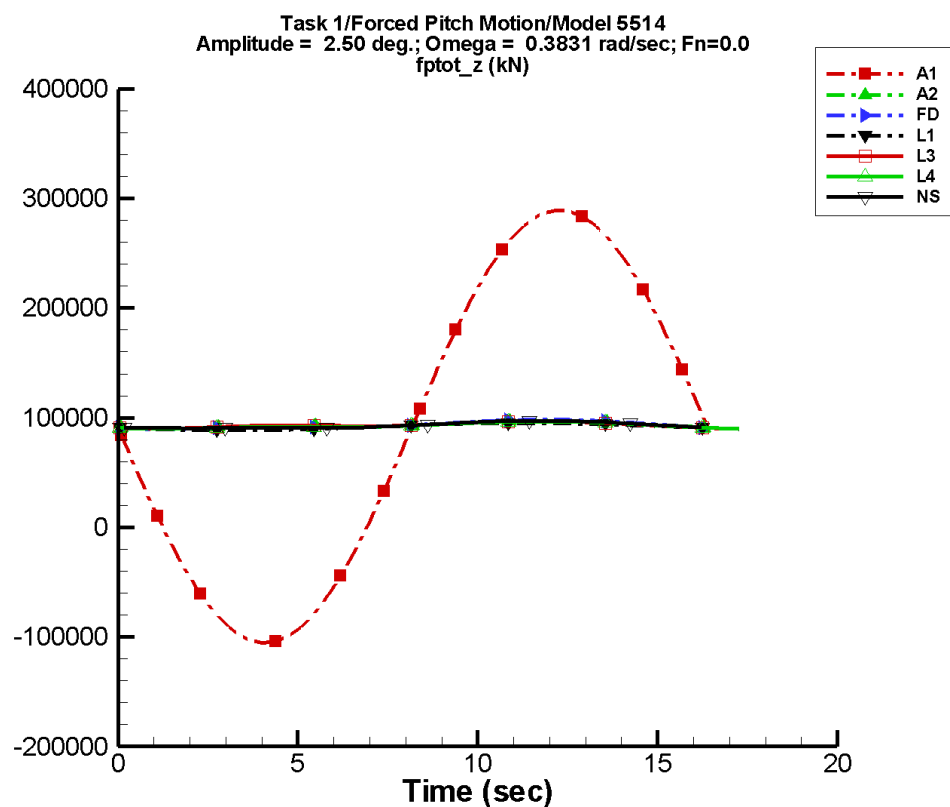
Table F–133. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.38E+05	-180	15.7	84
A2	9.26E+04	2.64E+03	-162	716.	-97
FD	9.27E+04	2.93E+03	-163	690.	-89
L1	9.18E+04	2.31E+03	-159	49.9	85
L3	9.25E+04	1.94E+03	-154	665.	-94
L4	9.23E+04	2.17E+03	-160	500.	-84
NF	—	—	—	—	—
NS	9.24E+04	2.55E+03	-166	438.	-68

Table F–134. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.60E+04	2.30E+05	-4.64E+04	2.29E+05
A2	8.98E+04	9.56E+04	8.99E+04	9.56E+04
FD	8.99E+04	9.61E+04	8.99E+04	9.61E+04
L1	8.95E+04	9.41E+04	8.95E+04	9.41E+04
L3	9.03E+04	9.48E+04	9.03E+04	9.48E+04
L4	9.03E+04	9.48E+04	9.03E+04	9.48E+04
NF	—	—	—	—
NS	9.03E+04	9.54E+04	9.04E+04	9.54E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-68. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

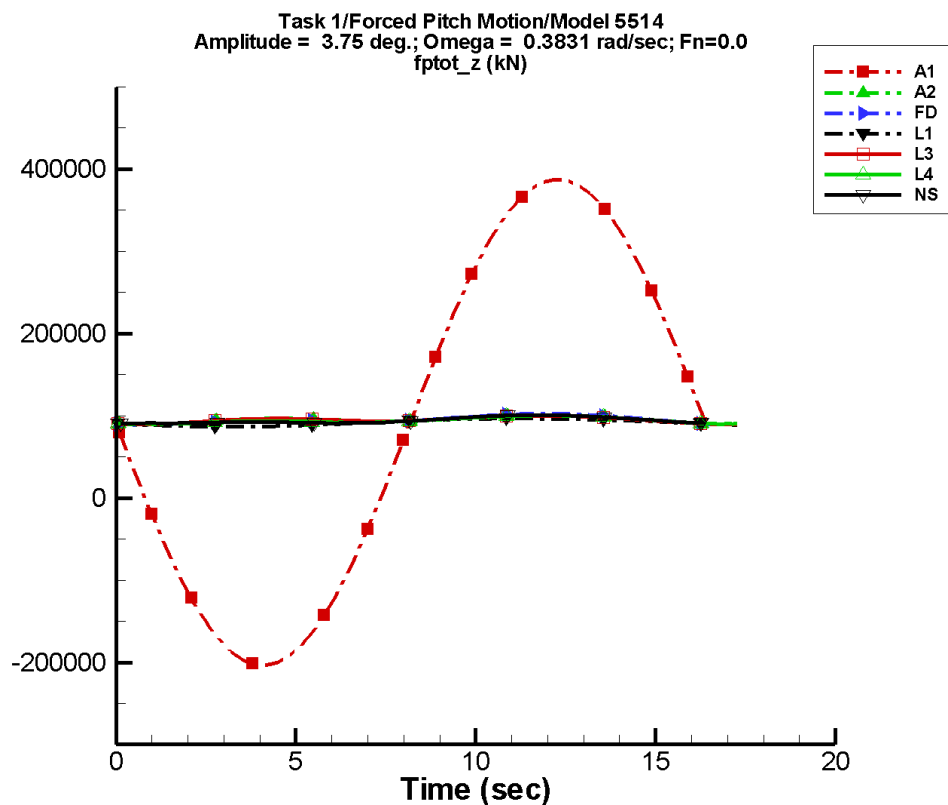
Table F–135. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.97E+05	-180	28.4	91
A2	9.34E+04	3.01E+03	-156	1.66E+03	-96
FD	9.34E+04	3.79E+03	-161	1.47E+03	-89
L1	9.18E+04	3.30E+03	-159	102.	85
L3	9.32E+04	2.43E+03	-149	1.41E+03	-94
L4	9.29E+04	2.91E+03	-161	1.08E+03	-84
NF	—	—	—	—	—
NS	9.30E+04	3.41E+03	-166	964.	-69

Table F–136. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.05E+05	2.89E+05	-1.06E+05	2.88E+05
A2	8.94E+04	9.74E+04	8.95E+04	9.74E+04
FD	8.95E+04	9.83E+04	8.95E+04	9.83E+04
L1	8.84E+04	9.50E+04	8.84E+04	9.50E+04
L3	9.00E+04	9.66E+04	9.00E+04	9.66E+04
L4	9.00E+04	9.67E+04	9.02E+04	9.66E+04
NF	—	—	—	—
NS	9.03E+04	9.73E+04	9.04E+04	9.72E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-69. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

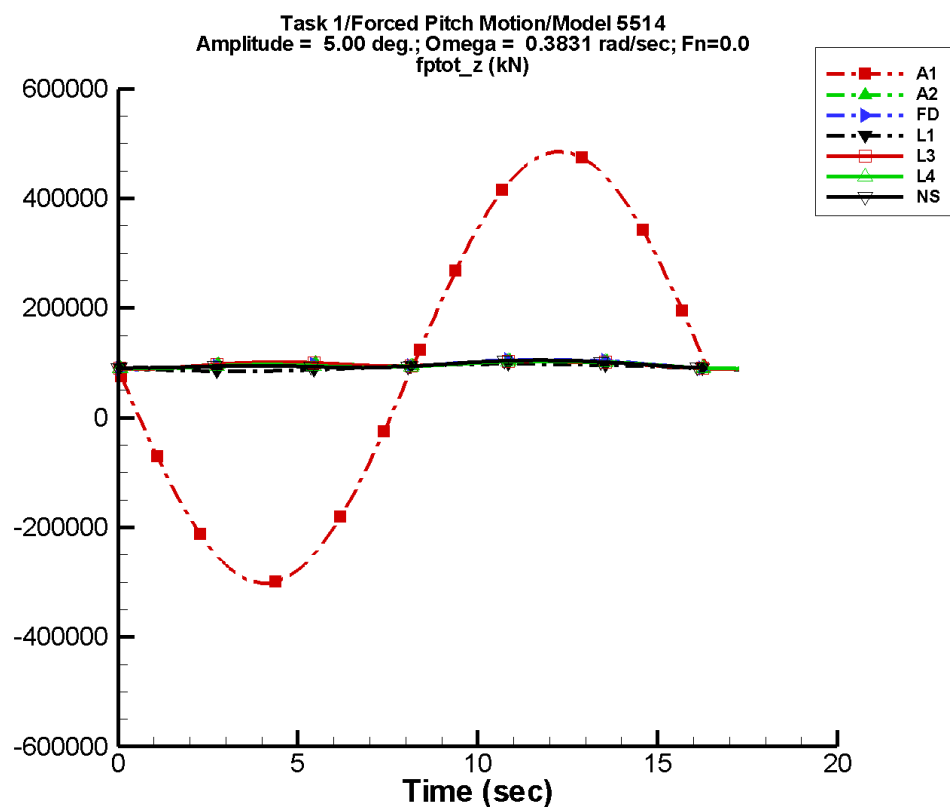
Table F–137. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.95E+05	-180	54.4	100
A2	9.53E+04	3.39E+03	-146	3.60E+03	-95
FD	9.51E+04	4.87E+03	-157	3.24E+03	-89
L1	9.18E+04	4.94E+03	-159	230.	85
L3	9.51E+04	2.96E+03	-140	3.12E+03	-93
L4	9.44E+04	3.93E+03	-161	2.45E+03	-85
NF	—	—	—	—	—
NS	9.44E+04	4.54E+03	-166	2.19E+03	-69

Table F–138. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.03E+05	3.87E+05	-2.04E+05	3.86E+05
A2	8.87E+04	1.01E+05	8.89E+04	1.01E+05
FD	8.88E+04	1.03E+05	8.89E+04	1.02E+05
L1	8.67E+04	9.66E+04	8.67E+04	9.66E+04
L3	8.95E+04	1.00E+05	8.95E+04	1.00E+05
L4	8.99E+04	1.00E+05	9.00E+04	1.00E+05
NF	—	—	—	—
NS	9.05E+04	1.01E+05	9.07E+04	1.01E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-70. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

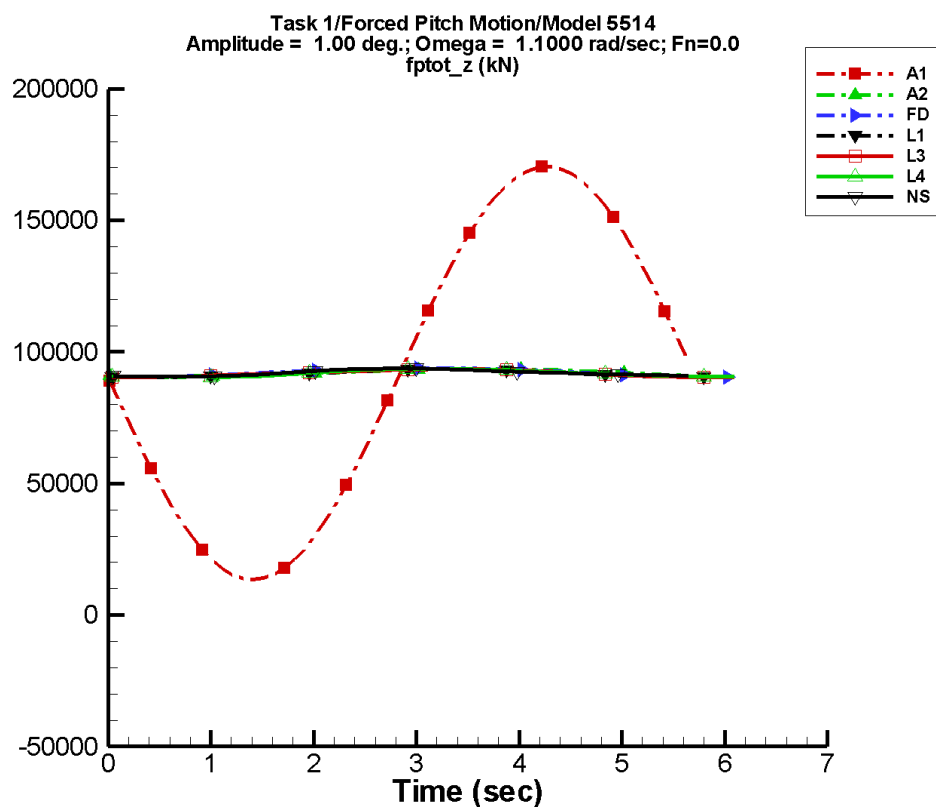
Table F–139. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.94E+05	-180	84.3	110
A2	9.76E+04	3.50E+03	-133	5.68E+03	-95
FD	9.73E+04	5.25E+03	-151	5.15E+03	-89
L1	9.19E+04	6.57E+03	-159	410.	85
L3	9.73E+04	3.13E+03	-123	5.02E+03	-93
L4	9.61E+04	4.40E+03	-160	3.96E+03	-85
NF	—	—	—	—	—
NS	9.62E+04	5.41E+03	-165	3.74E+03	-69

Table F–140. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.02E+05	4.85E+05	-3.03E+05	4.84E+05
A2	8.80E+04	1.05E+05	8.83E+04	1.04E+05
FD	8.82E+04	1.06E+05	8.83E+04	1.06E+05
L1	8.50E+04	9.82E+04	8.50E+04	9.82E+04
L3	8.90E+04	1.03E+05	8.91E+04	1.03E+05
L4	8.97E+04	1.04E+05	9.00E+04	1.03E+05
NF	—	—	—	—
NS	9.05E+04	1.05E+05	9.07E+04	1.05E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-71. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

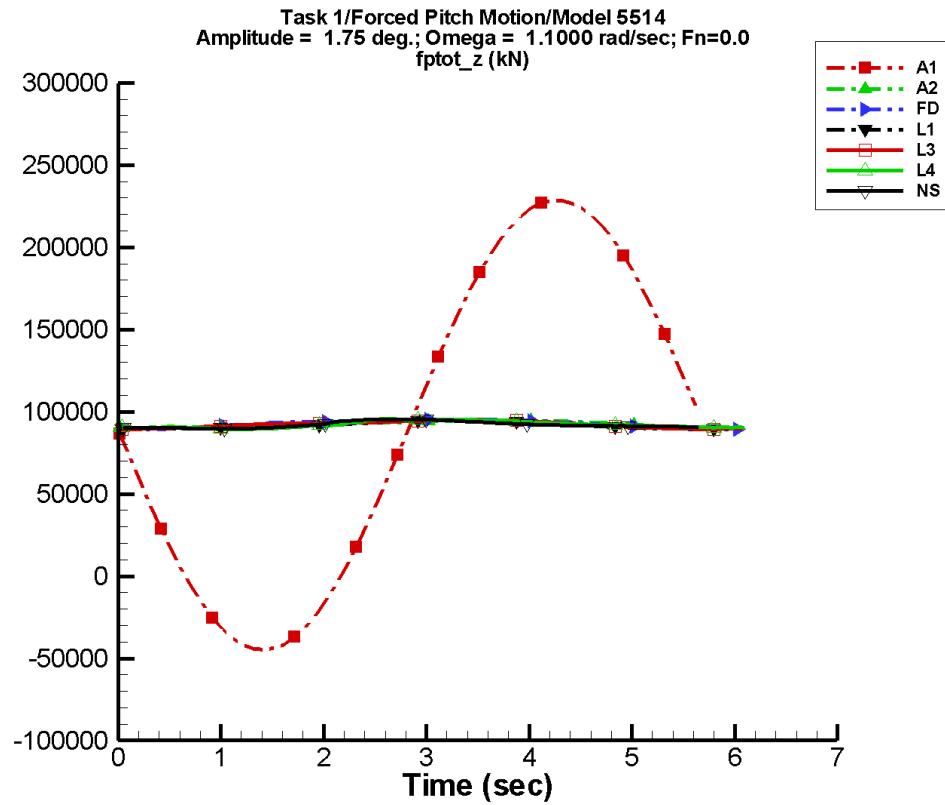
Table F-141. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	7.85E+04	-179	36.5	92
A2	9.21E+04	1.51E+03	-135	112.	-110
FD	9.22E+04	1.70E+03	-106	191.	-90
L1	9.18E+04	1.50E+03	-113	172.	19
L3	9.19E+04	1.48E+03	-110	198.	-46
L4	9.19E+04	1.55E+03	-119	296.	86
NF	—	—	—	—	—
NS	9.20E+04	1.45E+03	-104	357.	122

Table F-142. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.34E+04	1.70E+05	1.50E+04	1.68E+05
A2	9.03E+04	9.36E+04	9.06E+04	9.35E+04
FD	9.03E+04	9.38E+04	9.03E+04	9.37E+04
L1	9.04E+04	9.34E+04	9.04E+04	9.34E+04
L3	9.04E+04	9.35E+04	9.04E+04	9.35E+04
L4	9.02E+04	9.36E+04	9.06E+04	9.36E+04
NF	—	—	—	—
NS	9.07E+04	9.38E+04	9.07E+04	9.37E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-72. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

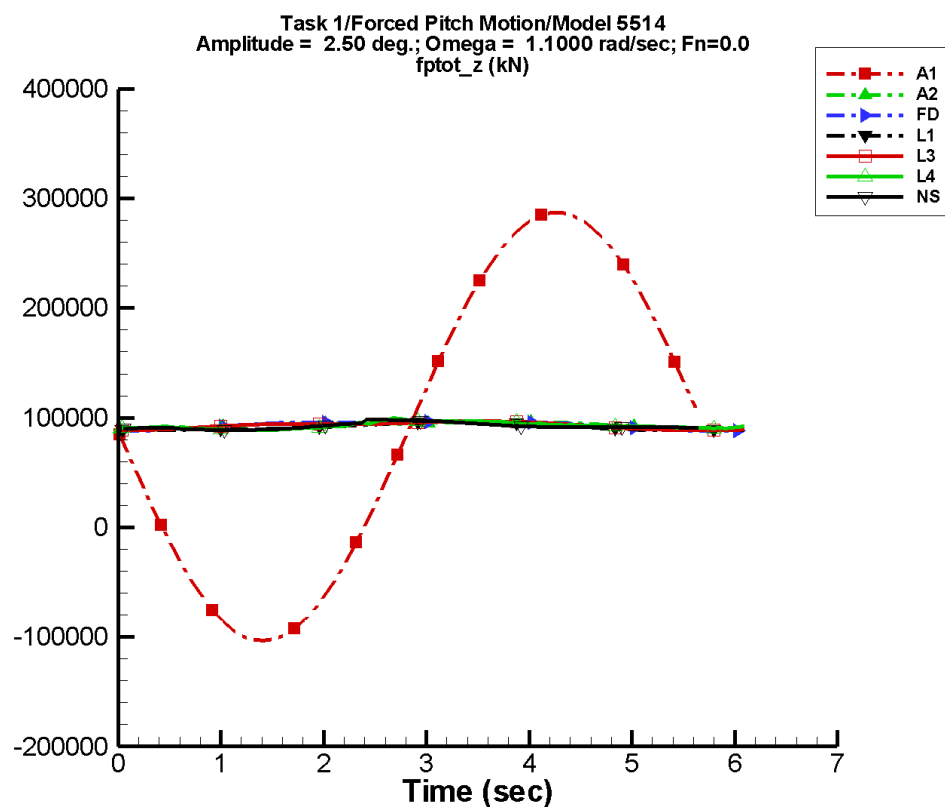
Table F–143. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.37E+05	-179	67.9	99
A2	9.25E+04	2.34E+03	-124	653.	-107
FD	9.27E+04	2.92E+03	-101	709.	-90
L1	9.17E+04	2.63E+03	-113	524.	19
L3	9.24E+04	2.52E+03	-104	693.	-55
L4	9.23E+04	2.64E+03	-124	956.	76
NF	—	—	—	—	—
NS	9.20E+04	2.36E+03	-106	1.09E+03	110

Table F–144. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.49E+04	2.28E+05	-4.21E+04	2.24E+05
A2	8.94E+04	9.48E+04	8.97E+04	9.48E+04
FD	8.91E+04	9.52E+04	8.91E+04	9.51E+04
L1	8.95E+04	9.48E+04	8.94E+04	9.48E+04
L3	8.94E+04	9.50E+04	8.94E+04	9.50E+04
L4	8.93E+04	9.58E+04	8.95E+04	9.53E+04
NF	—	—	—	—
NS	8.96E+04	9.54E+04	8.97E+04	9.53E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-73. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

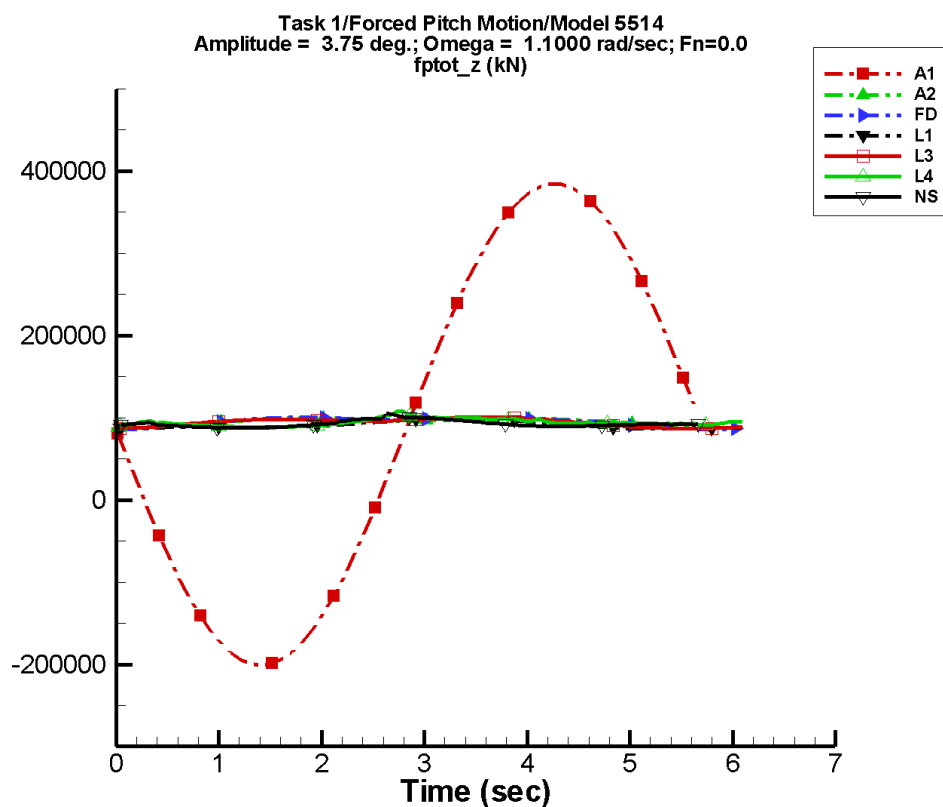
Table F–145. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.95E+05	-179	104.	106
A2	9.34E+04	3.06E+03	-110	1.57E+03	-106
FD	9.34E+04	4.11E+03	-95	1.51E+03	-90
L1	9.16E+04	3.75E+03	-113	1.07E+03	19
L3	9.30E+04	3.55E+03	-97	1.45E+03	-56
L4	9.29E+04	3.60E+03	-126	1.81E+03	73
NF	—	—	—	—	—
NS	9.23E+04	3.10E+03	-106	2.10E+03	104

Table F–146. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.04E+05	2.87E+05	-9.96E+04	2.81E+05
A2	8.86E+04	9.62E+04	8.89E+04	9.61E+04
FD	8.78E+04	9.67E+04	8.78E+04	9.66E+04
L1	8.85E+04	9.64E+04	8.85E+04	9.63E+04
L3	8.85E+04	9.69E+04	8.85E+04	9.68E+04
L4	8.87E+04	9.97E+04	8.89E+04	9.78E+04
NF	—	—	—	—
NS	8.87E+04	9.85E+04	8.88E+04	9.79E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-74. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

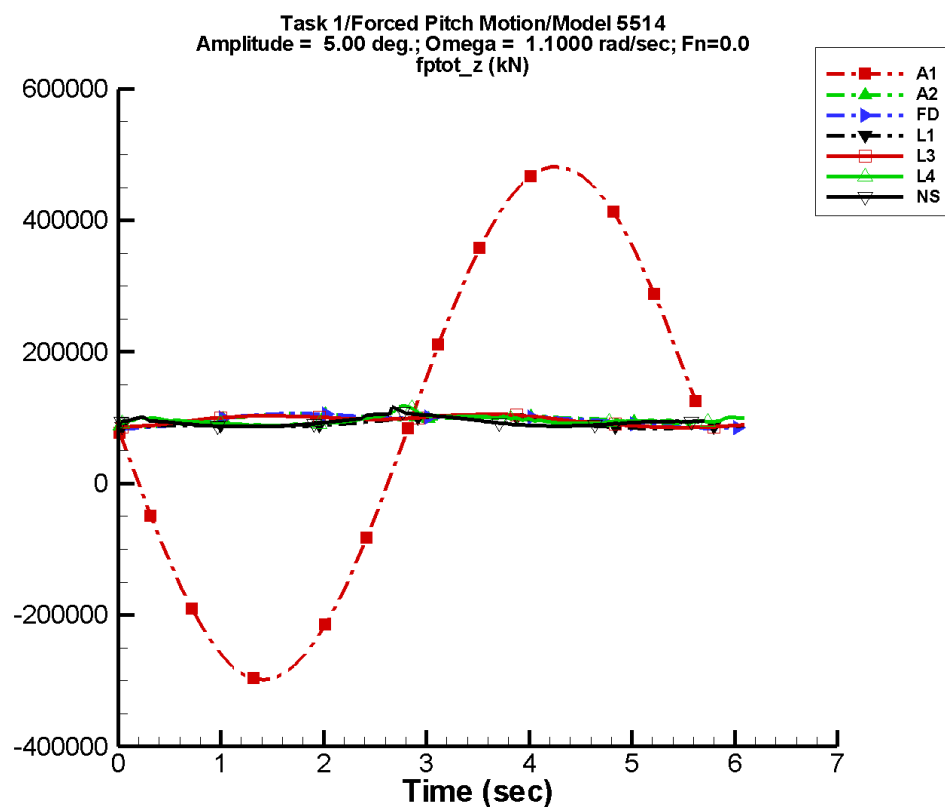
Table F-147. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	2.93E+05	-179	173.	116
A2	9.53E+04	4.47E+03	-93	3.49E+03	-105
FD	9.51E+04	6.15E+03	-87	3.33E+03	-90
L1	9.14E+04	5.63E+03	-113	2.40E+03	19
L3	9.47E+04	5.34E+03	-88	3.22E+03	-56
L4	9.46E+04	4.75E+03	-127	3.65E+03	70
NF	—	—	—	—	—
NS	9.26E+04	3.54E+03	-101	4.14E+03	98

Table F-148. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.01E+05	3.84E+05	-1.95E+05	3.75E+05
A2	8.70E+04	1.00E+05	8.75E+04	9.96E+04
FD	8.58E+04	1.00E+05	8.59E+04	9.99E+04
L1	8.64E+04	9.94E+04	8.65E+04	9.92E+04
L3	8.69E+04	1.01E+05	8.70E+04	1.00E+05
L4	8.81E+04	1.08E+05	8.84E+04	1.04E+05
NF	—	—	—	—
NS	8.76E+04	1.05E+05	8.77E+04	1.02E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-75. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

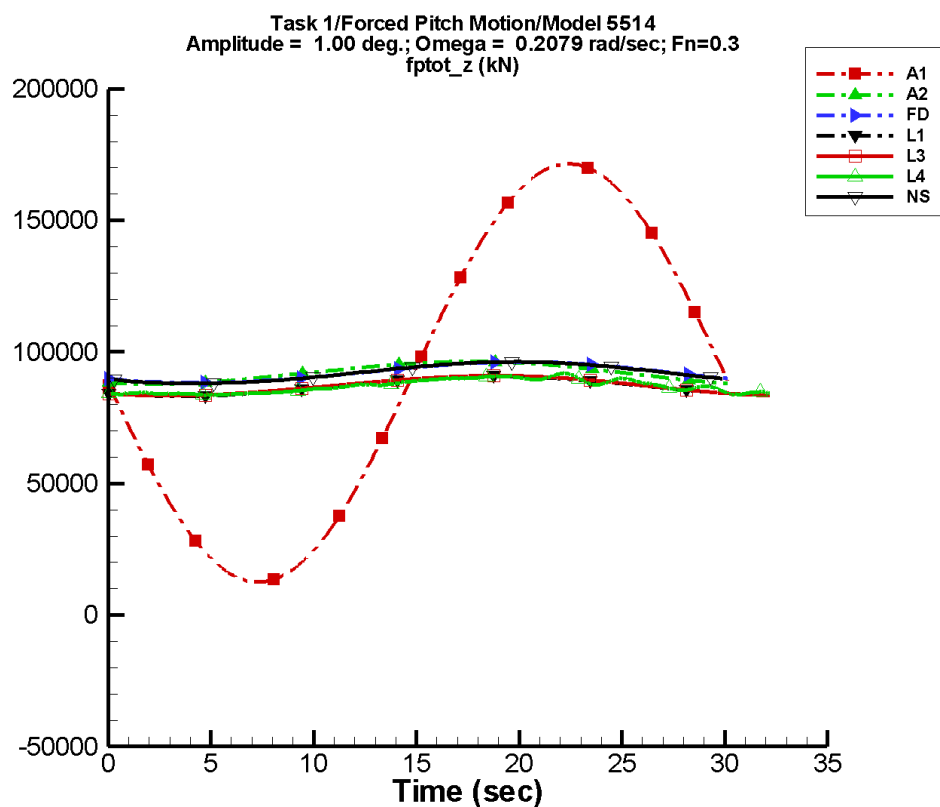
Table F–149. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.90E+05	-179	257.	125
A2	9.75E+04	6.23E+03	-80	5.55E+03	-105
FD	9.73E+04	8.38E+03	-78	5.36E+03	-90
L1	9.12E+04	7.50E+03	-113	4.26E+03	19
L3	9.66E+04	7.37E+03	-78	5.35E+03	-52
L4	9.62E+04	4.94E+03	-117	6.40E+03	69
NF	—	—	—	—	—
NS	9.35E+04	3.98E+03	-91	7.28E+03	96

Table F–150. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.99E+05	4.81E+05	-2.91E+05	4.69E+05
A2	8.55E+04	1.06E+05	8.60E+04	1.05E+05
FD	8.37E+04	1.06E+05	8.40E+04	1.05E+05
L1	8.38E+04	1.03E+05	8.40E+04	1.03E+05
L3	8.51E+04	1.05E+05	8.53E+04	1.05E+05
L4	8.79E+04	1.18E+05	8.83E+04	1.10E+05
NF	—	—	—	—
NS	8.66E+04	1.17E+05	8.66E+04	1.09E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-76. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

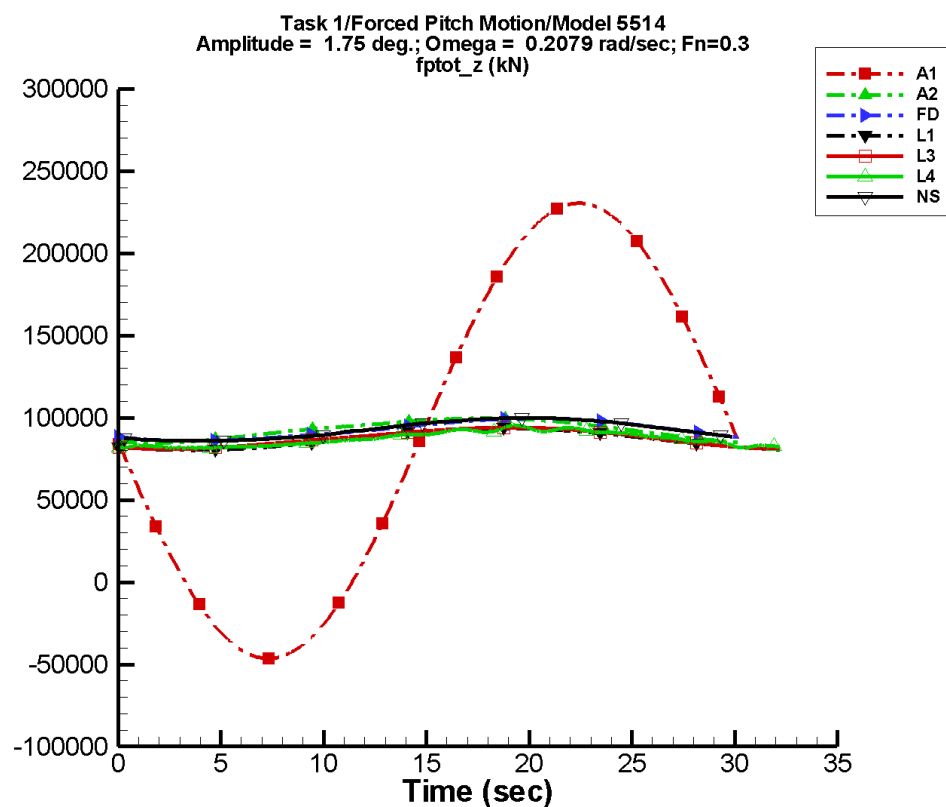
Table F–151. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.95E+04	-177	26.7	-32
A2	9.21E+04	4.31E+03	-118	164.	-86
FD	9.22E+04	3.96E+03	-147	189.	-89
L1	8.70E+04	3.81E+03	-132	27.7	86
L3	8.72E+04	3.76E+03	-131	173.	-91
L4	8.71E+04	3.37E+03	-144	112.	-69
NF	—	—	—	—	—
NS	9.21E+04	4.16E+03	-145	115.	-87

Table F–152. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.24E+04	1.71E+05	1.22E+04	1.71E+05
A2	8.75E+04	9.64E+04	8.75E+04	9.64E+04
FD	8.83E+04	9.62E+04	8.83E+04	9.62E+04
L1	8.32E+04	9.08E+04	8.32E+04	9.08E+04
L3	8.34E+04	9.10E+04	8.34E+04	9.10E+04
L4	8.34E+04	9.20E+04	8.36E+04	9.18E+04
NF	—	—	—	—
NS	8.80E+04	9.64E+04	8.80E+04	9.64E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-77. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

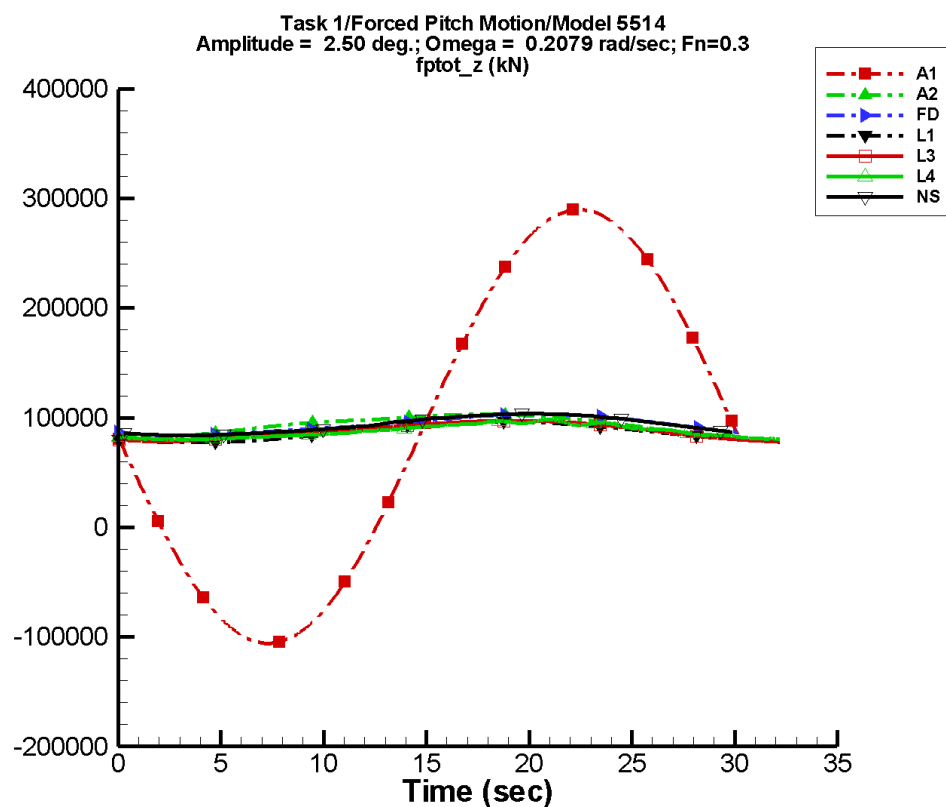
Table F–153. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.38E+05	-177	42.9	-30
A2	9.25E+04	7.29E+03	-114	752.	-92
FD	9.27E+04	6.71E+03	-145	697.	-89
L1	8.70E+04	6.66E+03	-132	84.9	86
L3	8.76E+04	6.40E+03	-129	658.	-91
L4	8.74E+04	5.79E+03	-143	435.	-70
NF	—	—	—	—	—
NS	9.27E+04	7.16E+03	-143	292.	-71

Table F–154. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.67E+04	2.30E+05	-4.69E+04	2.30E+05
A2	8.40E+04	9.97E+04	8.43E+04	9.97E+04
FD	8.59E+04	9.97E+04	8.59E+04	9.97E+04
L1	8.03E+04	9.37E+04	8.03E+04	9.37E+04
L3	8.08E+04	9.41E+04	8.08E+04	9.41E+04
L4	8.15E+04	9.56E+04	8.17E+04	9.53E+04
NF	—	—	—	—
NS	8.59E+04	1.00E+05	8.60E+04	1.00E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-78. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

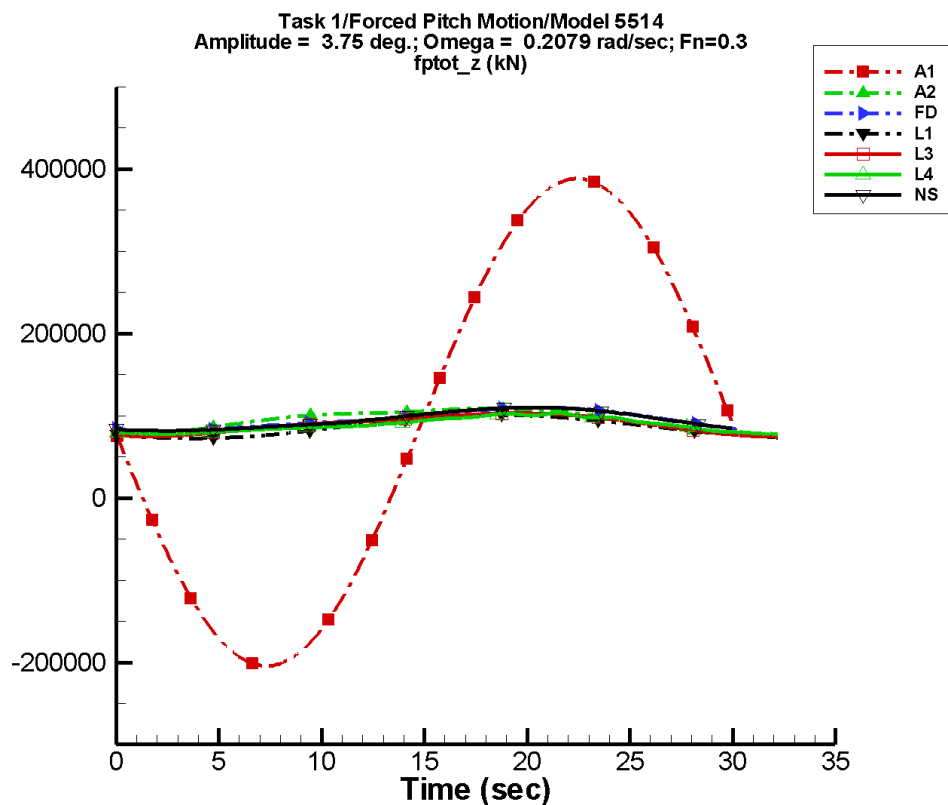
Table F–155. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.98E+05	-177	56.2	-28
A2	9.34E+04	1.01E+04	-109	1.71E+03	-92
FD	9.34E+04	9.25E+03	-144	1.48E+03	-89
L1	8.69E+04	9.52E+03	-132	173.	86
L3	8.83E+04	8.90E+03	-127	1.39E+03	-91
L4	8.79E+04	7.88E+03	-142	1.04E+03	-74
NF	—	—	—	—	—
NS	9.35E+04	9.85E+03	-143	922.	-72

Table F–156. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.06E+05	2.90E+05	-1.07E+05	2.90E+05
A2	8.11E+04	1.03E+05	8.12E+04	1.03E+05
FD	8.39E+04	1.03E+05	8.39E+04	1.03E+05
L1	7.74E+04	9.65E+04	7.74E+04	9.65E+04
L3	7.84E+04	9.73E+04	7.85E+04	9.73E+04
L4	7.98E+04	9.84E+04	8.00E+04	9.83E+04
NF	—	—	—	—
NS	8.37E+04	1.04E+05	8.40E+04	1.04E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-79. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

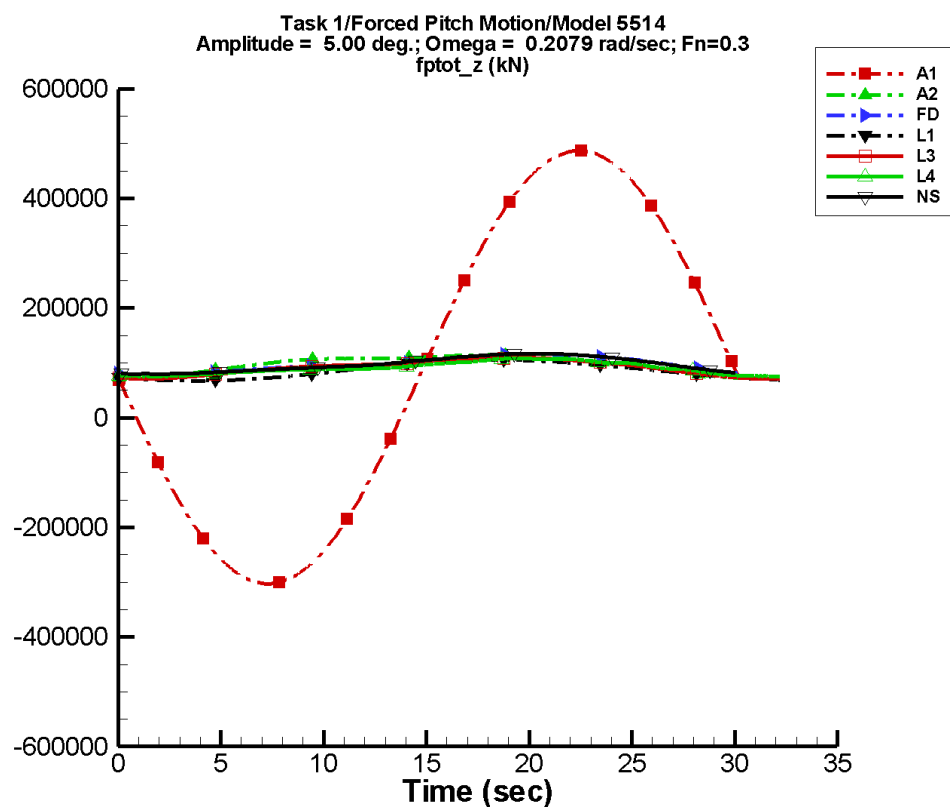
Table F–157. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.97E+05	-177	71.6	-28
A2	9.53E+04	1.49E+04	-104	3.69E+03	-92
FD	9.52E+04	1.32E+04	-141	3.28E+03	-89
L1	8.68E+04	1.43E+04	-132	389.	86
L3	9.00E+04	1.29E+04	-124	3.05E+03	-91
L4	8.93E+04	1.11E+04	-140	2.73E+03	-75
NF	—	—	—	—	—
NS	9.53E+04	1.40E+04	-142	2.20E+03	-73

Table F–158. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.05E+05	3.88E+05	-2.05E+05	3.88E+05
A2	7.60E+04	1.09E+05	7.61E+04	1.09E+05
FD	8.07E+04	1.10E+05	8.08E+04	1.10E+05
L1	7.25E+04	1.01E+05	7.25E+04	1.01E+05
L3	7.47E+04	1.03E+05	7.47E+04	1.03E+05
L4	7.73E+04	1.03E+05	7.75E+04	1.03E+05
NF	—	—	—	—
NS	8.14E+04	1.11E+05	8.17E+04	1.11E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-80. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

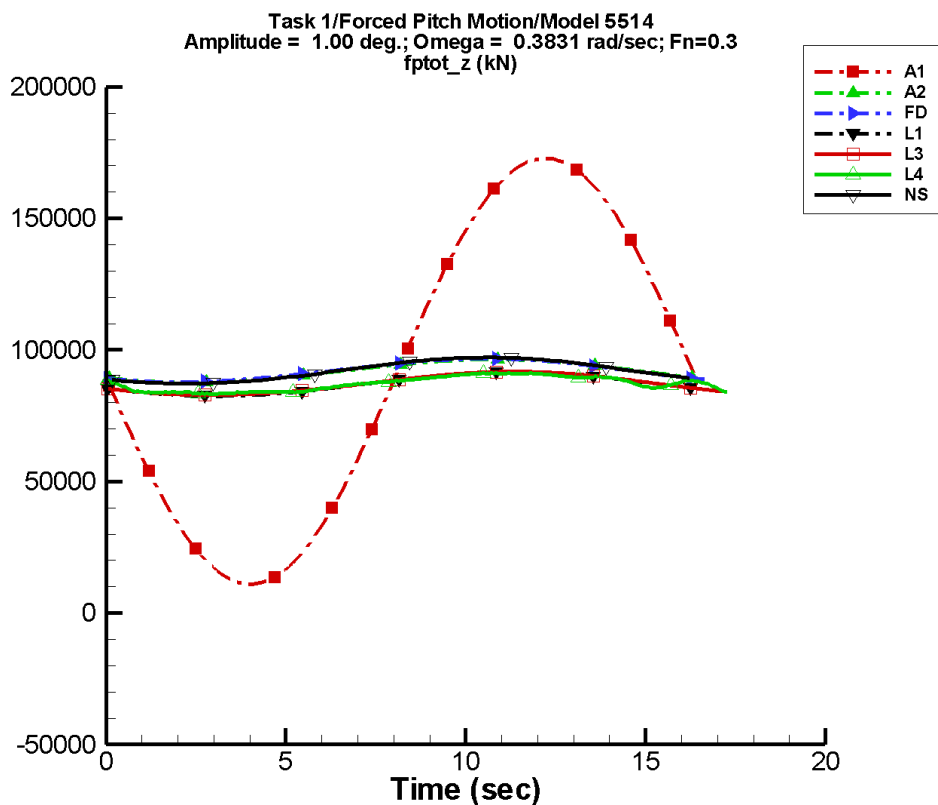
Table F–159. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.95E+05	-177	78.7	-33
A2	9.76E+04	1.96E+04	-100	5.80E+03	-92
FD	9.73E+04	1.66E+04	-138	5.25E+03	-88
L1	8.65E+04	1.90E+04	-132	692.	86
L3	9.20E+04	1.65E+04	-120	4.89E+03	-91
L4	9.12E+04	1.39E+04	-137	4.64E+03	-76
NF	—	—	—	—	—
NS	9.77E+04	1.77E+04	-140	3.86E+03	-74

Table F–160. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.04E+05	4.87E+05	-3.04E+05	4.87E+05
A2	7.09E+04	1.15E+05	7.11E+04	1.15E+05
FD	7.78E+04	1.17E+05	7.78E+04	1.17E+05
L1	6.76E+04	1.06E+05	6.76E+04	1.06E+05
L3	7.10E+04	1.09E+05	7.10E+04	1.09E+05
L4	7.49E+04	1.08E+05	7.53E+04	1.08E+05
NF	—	—	—	—
NS	7.93E+04	1.18E+05	7.97E+04	1.18E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-81. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

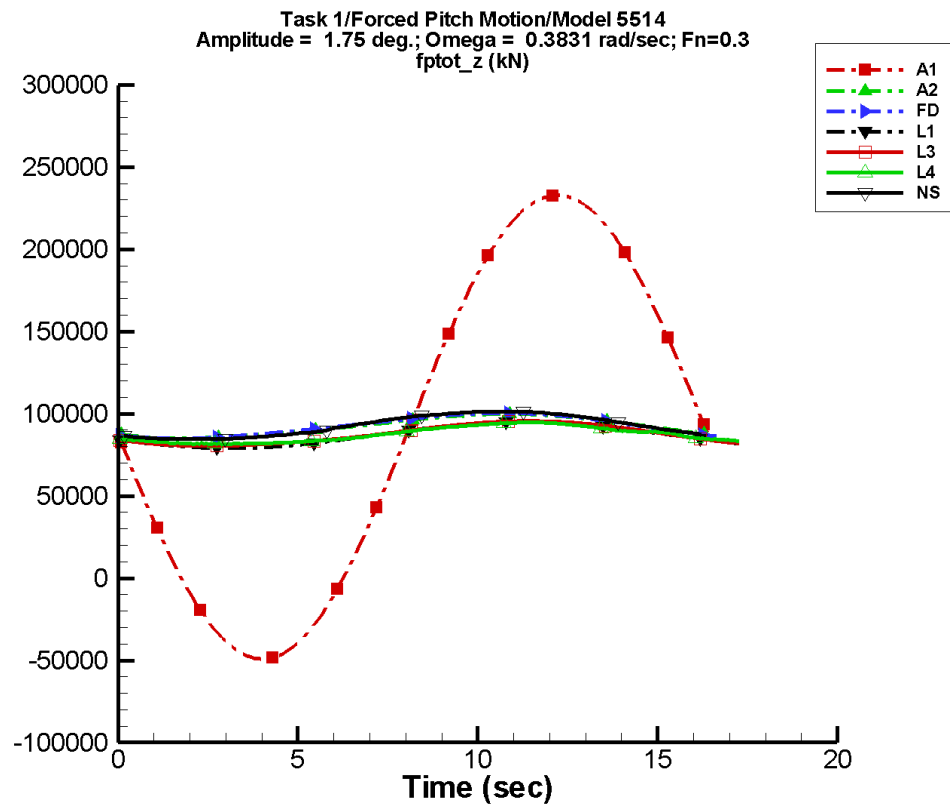
Table F–161. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	8.09E+04	-178	8.70	26
A2	9.21E+04	4.29E+03	-144	143.	-94
FD	9.22E+04	4.43E+03	-139	187.	-90
L1	8.70E+04	4.51E+03	-158	30.7	81
L3	8.72E+04	4.44E+03	-157	165.	-92
L4	8.72E+04	3.69E+03	-160	204.	43
NF	—	—	—	—	—
NS	9.21E+04	4.99E+03	-142	92.1	-57

Table F–162. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.10E+04	1.73E+05	1.08E+04	1.73E+05
A2	8.75E+04	9.64E+04	8.77E+04	9.64E+04
FD	8.77E+04	9.67E+04	8.78E+04	9.67E+04
L1	8.25E+04	9.15E+04	8.25E+04	9.15E+04
L3	8.29E+04	9.18E+04	8.29E+04	9.17E+04
L4	8.32E+04	9.13E+04	8.33E+04	9.11E+04
NF	—	—	—	—
NS	8.71E+04	9.71E+04	8.72E+04	9.71E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-82. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F-163. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.41E+05	-178	15.3	51
A2	9.25E+04	7.06E+03	-141	719.	-96
FD	9.27E+04	7.55E+03	-137	690.	-89
L1	8.70E+04	7.89E+03	-158	94.1	81
L3	8.76E+04	7.53E+03	-156	621.	-93
L4	8.75E+04	6.37E+03	-158	489.	-39
NF	—	—	—	—	—
NS	9.27E+04	8.64E+03	-141	266.	-30

Table F-164. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.91E+04	2.33E+05	-4.95E+04	2.32E+05
A2	8.50E+04	9.98E+04	8.50E+04	9.98E+04
FD	8.49E+04	1.00E+05	8.49E+04	1.00E+05
L1	7.90E+04	9.48E+04	7.90E+04	9.48E+04
L3	8.04E+04	9.55E+04	8.04E+04	9.55E+04
L4	8.15E+04	9.48E+04	8.17E+04	9.47E+04
NF	—	—	—	—
NS	8.45E+04	1.01E+05	8.46E+04	1.01E+05

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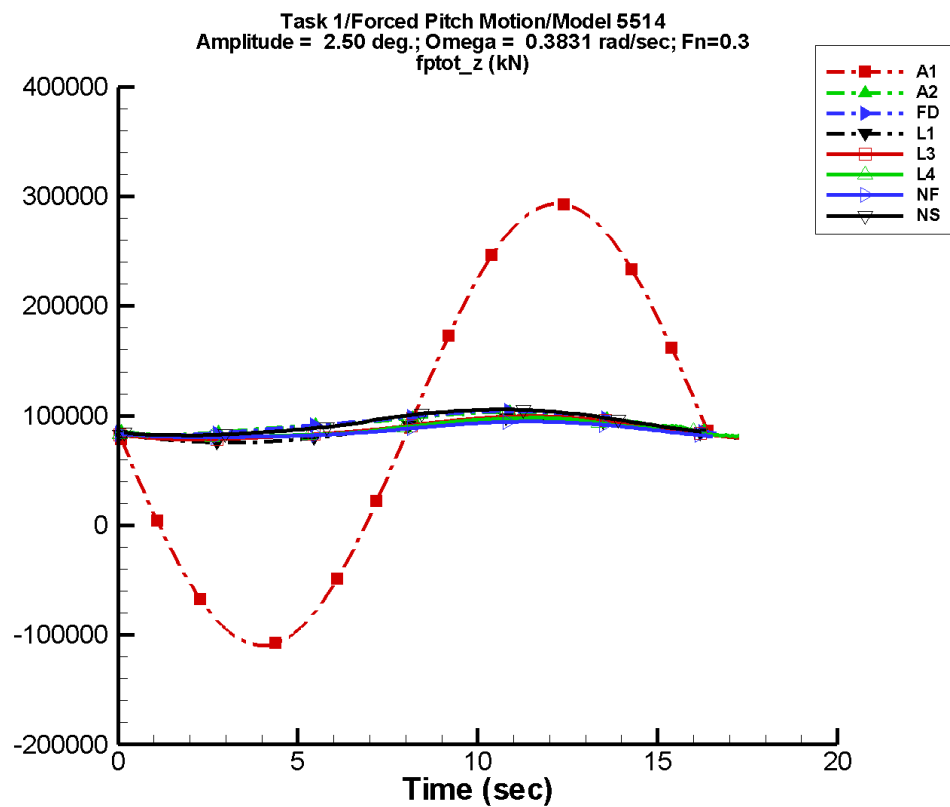


Figure F-83. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–165. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.02E+05	-178	24.5	73
A2	9.33E+04	9.47E+03	-138	1.67E+03	-96
FD	9.34E+04	1.05E+04	-136	1.47E+03	-89
L1	8.69E+04	1.13E+04	-158	192.	81
L3	8.83E+04	1.04E+04	-155	1.32E+03	-93
L4	8.81E+04	8.60E+03	-159	1.08E+03	-57
NF	8.67E+04	8.22E+03	-145	1.21E+03	-40
NS	9.33E+04	1.20E+04	-141	851.	-45

Table F–166. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.10E+05	2.93E+05	-1.10E+05	2.92E+05
A2	8.26E+04	1.03E+05	8.26E+04	1.03E+05
FD	8.23E+04	1.04E+05	8.23E+04	1.04E+05
L1	7.55E+04	9.81E+04	7.55E+04	9.81E+04
L3	7.84E+04	9.95E+04	7.84E+04	9.95E+04
L4	8.03E+04	9.84E+04	8.07E+04	9.81E+04
NF	7.85E+04	9.70E+04	7.86E+04	9.69E+04
NS	8.18E+04	1.06E+05	8.21E+04	1.06E+05

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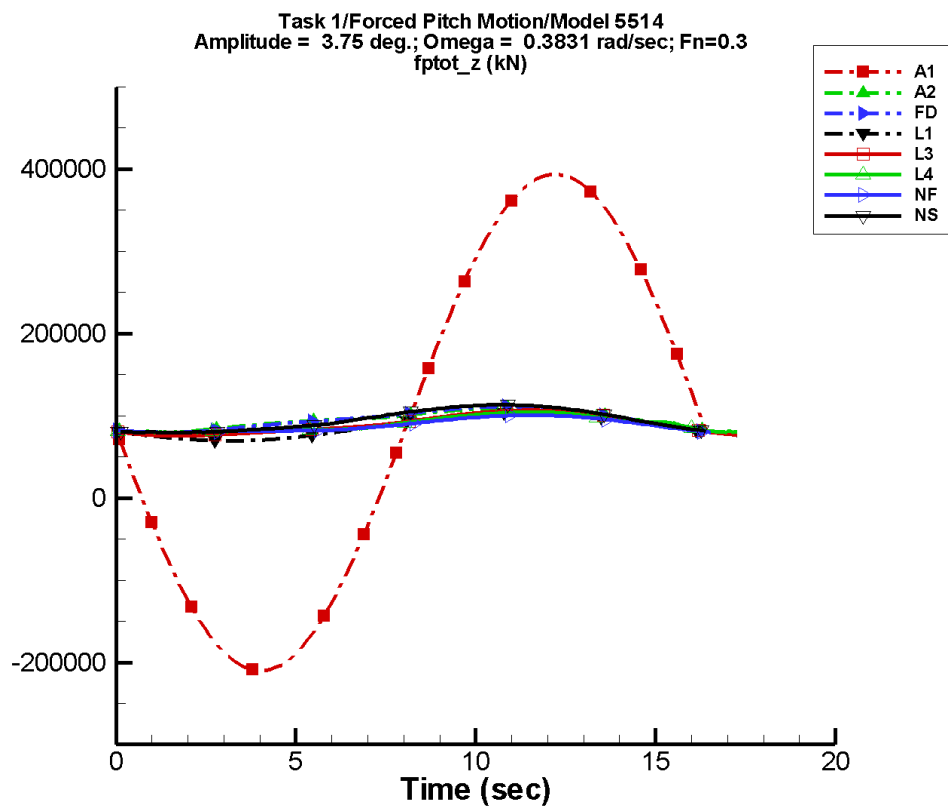


Figure F-84. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F-167. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.02E+05	-178	47.3	100
A2	9.52E+04	1.33E+04	-134	3.61E+03	-95
FD	9.51E+04	1.51E+04	-133	3.24E+03	-89
L1	8.68E+04	1.69E+04	-158	432.	81
L3	9.00E+04	1.48E+04	-154	2.92E+03	-93
L4	8.99E+04	1.19E+04	-159	2.70E+03	-66
NF	8.84E+04	1.15E+04	-145	2.72E+03	-42
NS	9.49E+04	1.70E+04	-140	2.08E+03	-51

Table F-168. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.10E+05	3.93E+05	-2.11E+05	3.92E+05
A2	7.88E+04	1.10E+05	7.90E+04	1.10E+05
FD	7.82E+04	1.11E+05	7.83E+04	1.11E+05
L1	6.96E+04	1.03E+05	6.96E+04	1.03E+05
L3	7.56E+04	1.07E+05	7.56E+04	1.07E+05
L4	7.95E+04	1.05E+05	7.98E+04	1.04E+05
NF	7.76E+04	1.03E+05	7.76E+04	1.03E+05
NS	7.92E+04	1.13E+05	7.95E+04	1.13E+05

TASK 1/PITCH MOTION/MODEL 5514

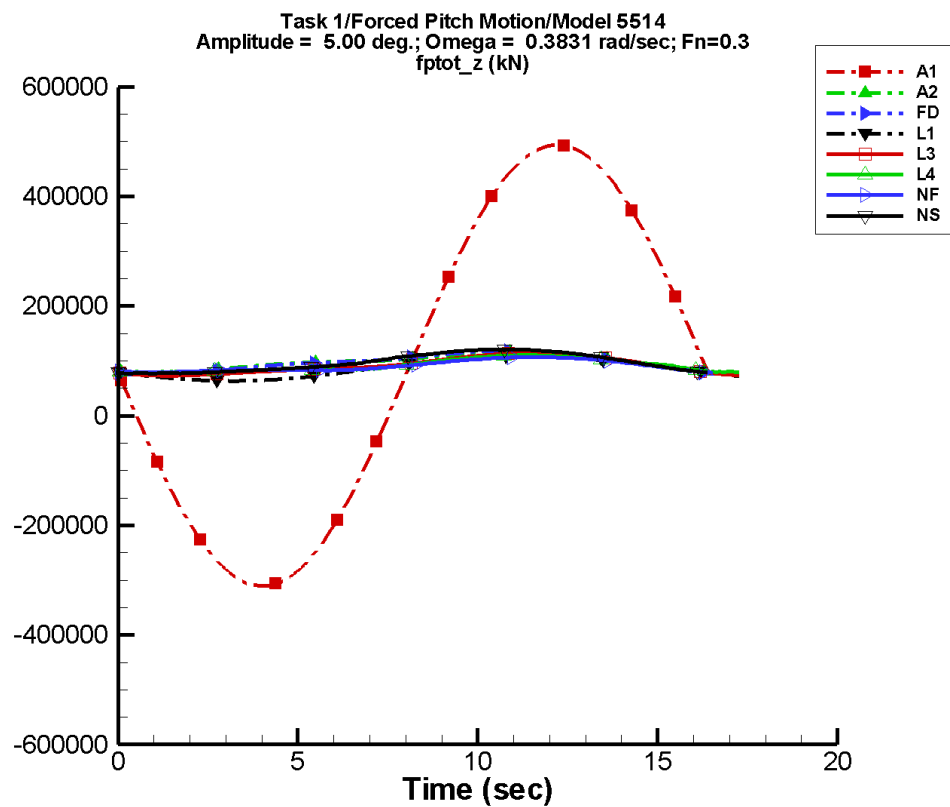


Figure F-85. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

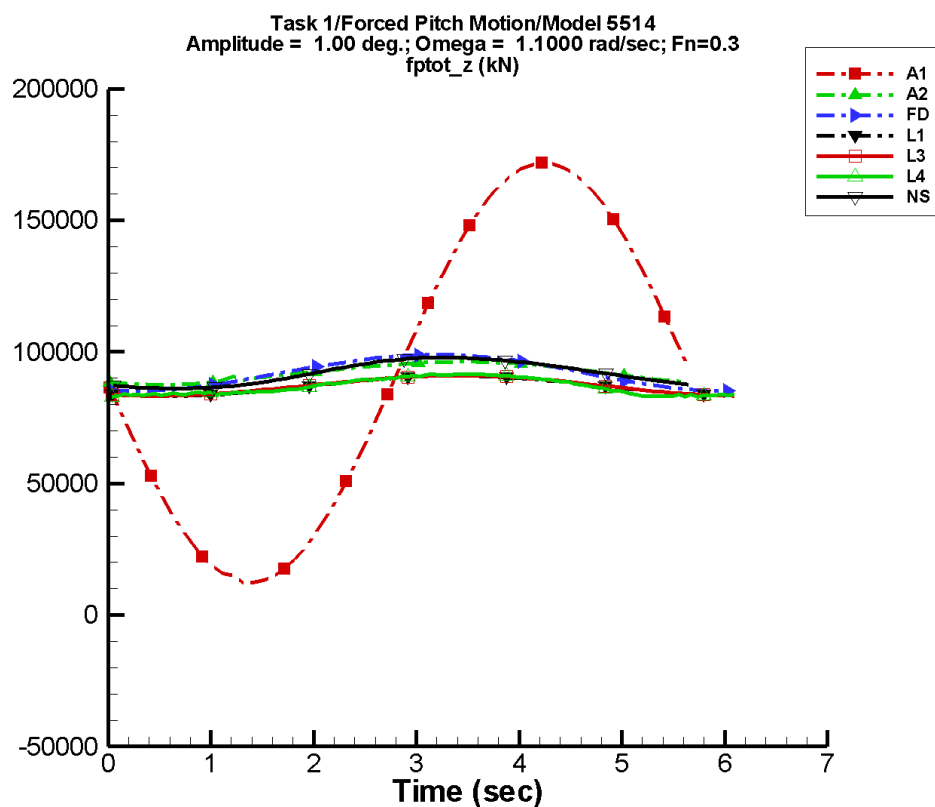
Table F–169. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.17E+04	4.03E+05	-178	80.7	119
A2	9.74E+04	1.69E+04	-131	5.69E+03	-95
FD	9.73E+04	1.93E+04	-130	5.15E+03	-89
L1	8.65E+04	2.25E+04	-158	767.	81
L3	9.20E+04	1.86E+04	-152	4.67E+03	-93
L4	9.20E+04	1.45E+04	-158	4.62E+03	-67
NF	9.06E+04	1.41E+04	-144	4.74E+03	-42
NS	9.71E+04	2.16E+04	-139	3.65E+03	-52

Table F–170. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.11E+05	4.94E+05	-3.12E+05	4.92E+05
A2	7.52E+04	1.17E+05	7.55E+04	1.16E+05
FD	7.42E+04	1.19E+05	7.44E+04	1.18E+05
L1	6.35E+04	1.09E+05	6.35E+04	1.09E+05
L3	7.30E+04	1.14E+05	7.31E+04	1.14E+05
L4	7.90E+04	1.11E+05	7.94E+04	1.11E+05
NF	7.68E+04	1.10E+05	7.70E+04	1.10E+05
NS	7.69E+04	1.21E+05	7.74E+04	1.21E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-86. Time history of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

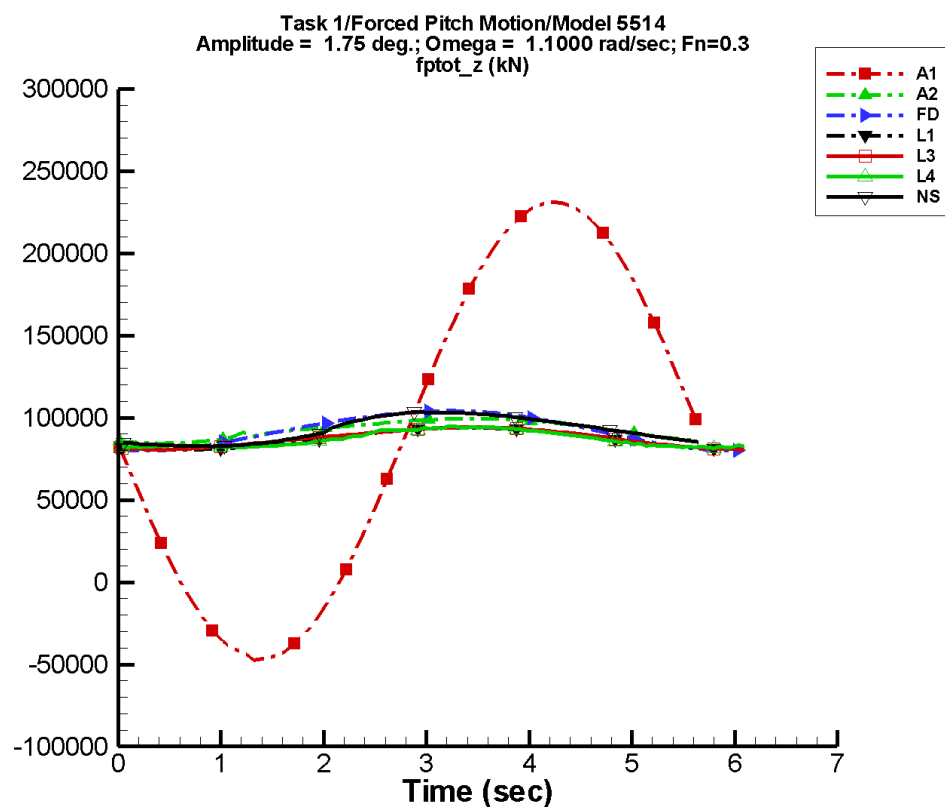
Table F-171. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.98E+04	-177	126.	-74
A2	9.21E+04	4.25E+03	-122	263.	-91
FD	9.22E+04	6.88E+03	-110	191.	-90
L1	8.70E+04	3.86E+03	-124	86.0	39
L3	8.72E+04	3.82E+03	-123	150.	-74
L4	8.70E+04	4.12E+03	-119	789.	2
NF	—	—	—	—	—
NS	9.18E+04	5.89E+03	-125	425.	100

Table F-172. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.34E+04	1.69E+05
A2	8.75E+04	9.63E+04	8.78E+04	9.62E+04
FD	8.52E+04	9.89E+04	8.52E+04	9.87E+04
L1	8.32E+04	9.10E+04	8.33E+04	9.09E+04
L3	8.33E+04	9.10E+04	8.34E+04	9.10E+04
L4	8.30E+04	9.17E+04	8.33E+04	9.15E+04
NF	—	—	—	—
NS	8.59E+04	9.79E+04	8.60E+04	9.78E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-87. Time history of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F-173. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	1.39E+05	-177	216.	-76
A2	9.26E+04	7.20E+03	-118	909.	-98
FD	9.27E+04	1.19E+04	-108	709.	-90
L1	8.70E+04	6.75E+03	-124	266.	38
L3	8.76E+04	6.55E+03	-121	582.	-79
L4	8.71E+04	6.28E+03	-122	1.53E+03	28
NF	—	—	—	—	—
NS	9.24E+04	1.04E+04	-125	1.69E+03	94

Table F-174. Minimum and maximum of F_z^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.49E+04	2.27E+05
A2	8.43E+04	9.95E+04	8.48E+04	9.93E+04
FD	8.01E+04	1.04E+05	8.01E+04	1.04E+05
L1	8.05E+04	9.40E+04	8.05E+04	9.39E+04
L3	8.07E+04	9.42E+04	8.08E+04	9.41E+04
L4	8.16E+04	9.47E+04	8.21E+04	9.42E+04
NF	—	—	—	—
NS	8.24E+04	1.04E+05	8.25E+04	1.03E+05

TASK 1/PITCH MOTION/MODEL 5514

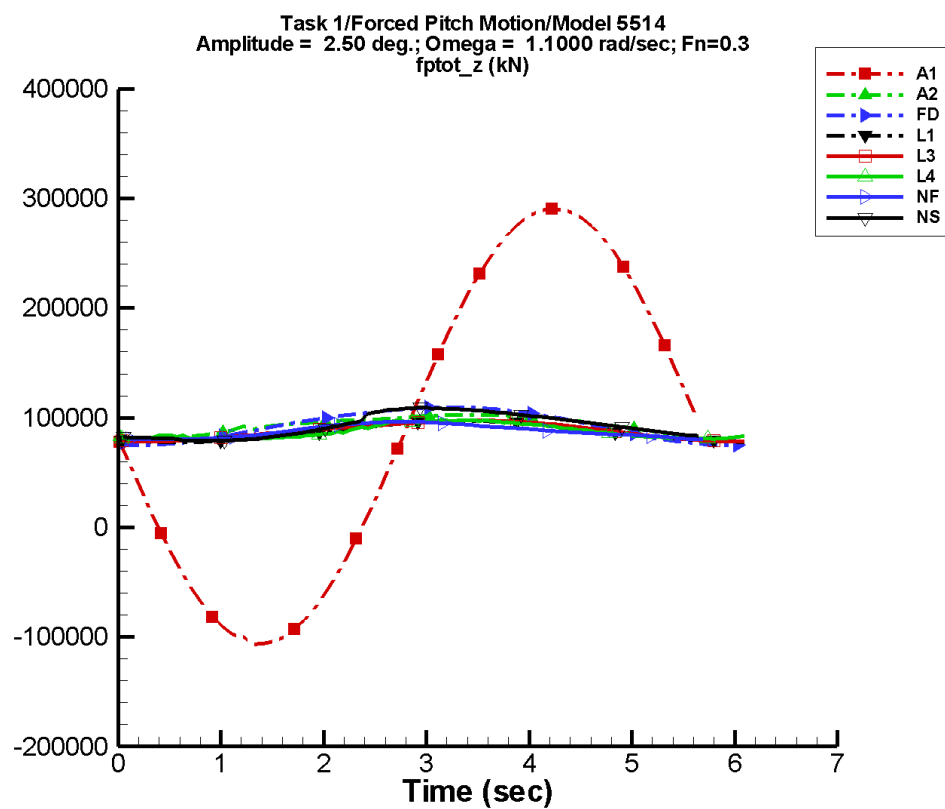


Figure F-88. Time history of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F-175. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	-177	304.	-77
A2	9.34E+04	1.00E+04	-114	1.94E+03	-100
FD	9.34E+04	1.69E+04	-107	1.51E+03	-90
L1	8.69E+04	9.64E+03	-124	544.	38
L3	8.83E+04	9.18E+03	-118	1.24E+03	-80
L4	8.76E+04	8.25E+03	-123	2.68E+03	34
NF	8.75E+04	7.68E+03	-93	1.53E+03	142
NS	9.26E+04	1.44E+04	-127	2.96E+03	82

Table F-176. Minimum and maximum of F_z^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.04E+05	2.85E+05
A2	8.11E+04	1.03E+05	8.19E+04	1.03E+05
FD	7.50E+04	1.10E+05	7.50E+04	1.09E+05
L1	7.77E+04	9.70E+04	7.78E+04	9.69E+04
L3	7.82E+04	9.75E+04	7.84E+04	9.74E+04
L4	8.06E+04	9.81E+04	8.11E+04	9.73E+04
NF	8.02E+04	9.66E+04	8.03E+04	9.57E+04
NS	7.85E+04	1.09E+05	7.86E+04	1.09E+05

TASK 1/PITCH MOTION/MODEL 5514

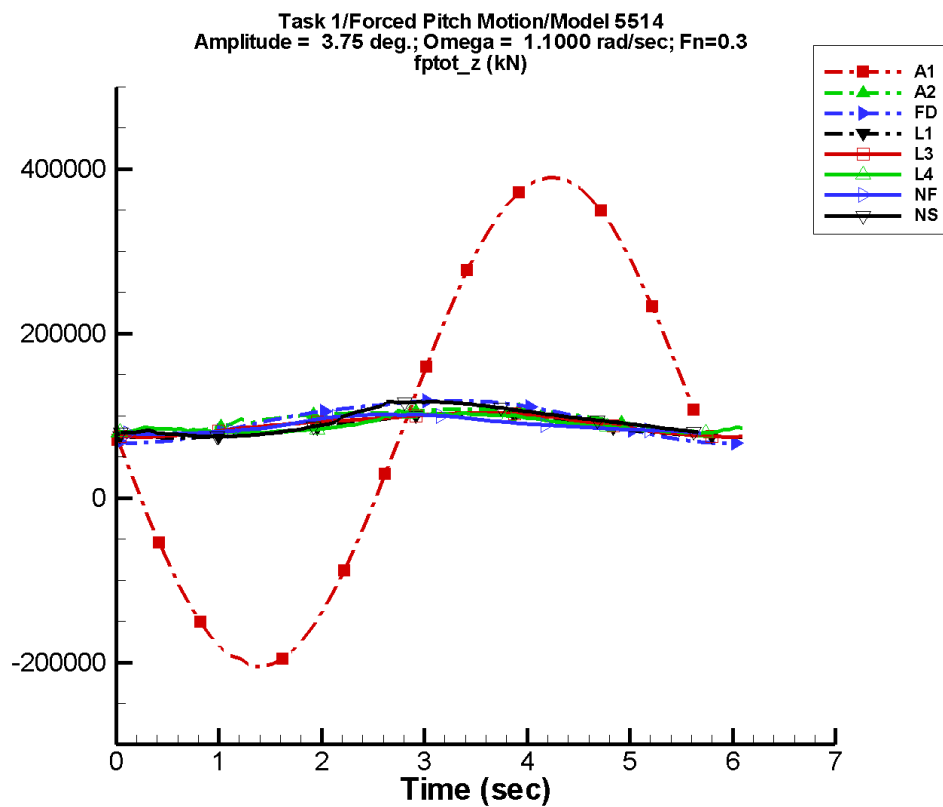


Figure F-89. Time history of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F-177. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	-177	450.	-80
A2	9.53E+04	1.47E+04	-109	4.04E+03	-101
FD	9.51E+04	2.52E+04	-105	3.33E+03	-90
L1	8.66E+04	1.45E+04	-124	1.23E+03	37
L3	8.99E+04	1.34E+04	-115	2.72E+03	-79
L4	8.89E+04	1.09E+04	-124	4.82E+03	37
NF	8.85E+04	1.13E+04	-91	2.96E+03	143
NS	9.35E+04	1.97E+04	-125	5.30E+03	80

Table F-178. Minimum and maximum of F_z^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-2.01E+05	3.81E+05
A2	7.59E+04	1.08E+05	7.72E+04	1.08E+05
FD	6.67E+04	1.18E+05	6.66E+04	1.18E+05
L1	7.33E+04	1.02E+05	7.34E+04	1.02E+05
L3	7.43E+04	1.03E+05	7.46E+04	1.03E+05
L4	7.88E+04	1.08E+05	7.99E+04	1.03E+05
NF	7.75E+04	1.02E+05	7.77E+04	1.02E+05
NS	7.42E+04	1.17E+05	7.44E+04	1.17E+05

TASK 1/PITCH MOTION/MODEL 5514

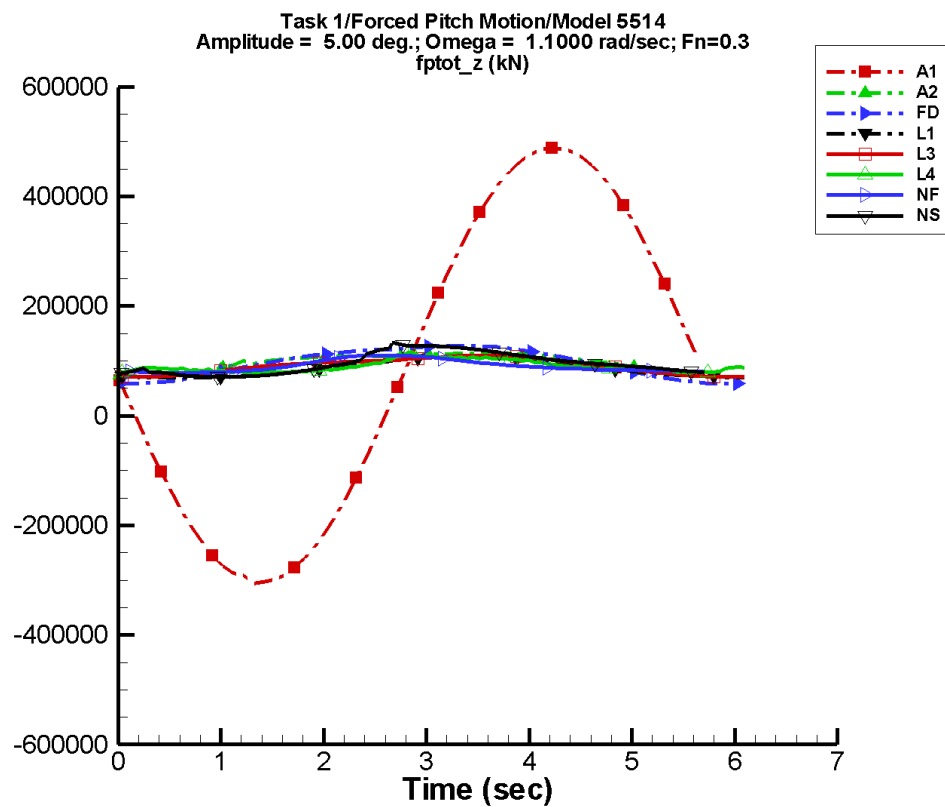


Figure F-90. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

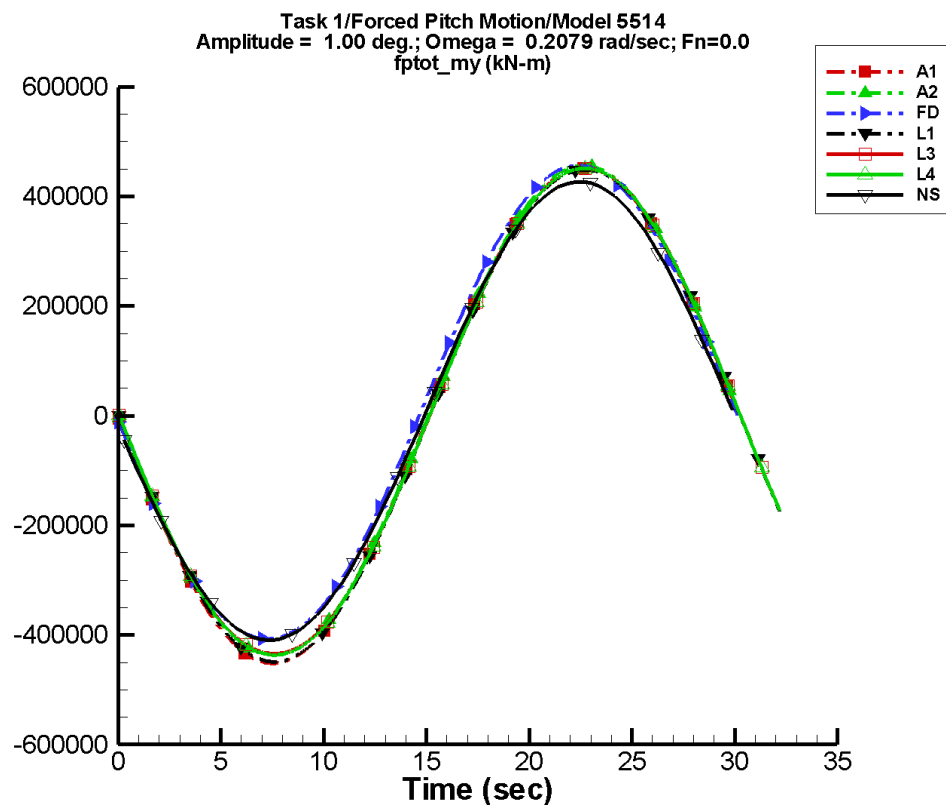
Table F–179. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	3.97E+05	-177	599.	-84
A2	9.76E+04	1.94E+04	-104	6.29E+03	-101
FD	9.73E+04	3.32E+04	-103	5.36E+03	-90
L1	8.63E+04	1.93E+04	-124	2.19E+03	37
L3	9.18E+04	1.75E+04	-111	4.36E+03	-77
L4	9.03E+04	1.28E+04	-122	7.46E+03	40
NF	9.05E+04	1.42E+04	-85	5.89E+03	132
NS	9.49E+04	2.48E+04	-125	9.02E+03	77

Table F–180. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.05E+05	4.89E+05	-2.99E+05	4.76E+05
A2	7.08E+04	1.14E+05	7.24E+04	1.14E+05
FD	5.85E+04	1.28E+05	5.84E+04	1.27E+05
L1	6.91E+04	1.08E+05	6.92E+04	1.07E+05
L3	7.05E+04	1.10E+05	7.08E+04	1.10E+05
L4	7.85E+04	1.17E+05	7.90E+04	1.11E+05
NF	7.81E+04	1.11E+05	7.89E+04	1.10E+05
NS	7.02E+04	1.33E+05	7.04E+04	1.28E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-91. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

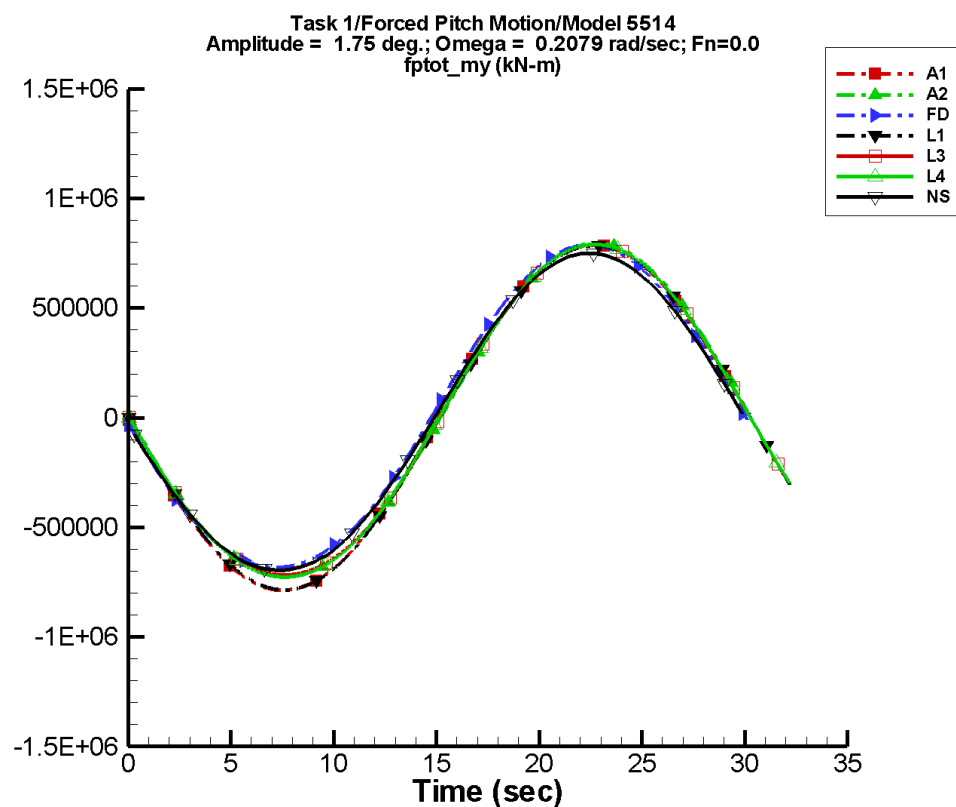
Table F–181. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-10.4	4.52E+05	-180	8.52	11
A2	5.21E+03	4.48E+05	-180	4.90E+03	-91
FD	2.02E+04	4.33E+05	-177	3.94E+03	-88
L1	52.6	4.49E+05	179	47.8	90
L3	4.21E+03	4.44E+05	179	4.19E+03	-92
L4	3.85E+03	4.45E+05	179	3.40E+03	-85
NF	—	—	—	—	—
NS	4.96E+03	4.18E+05	-178	4.21E+03	-84

Table F–182. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.51E+05	4.52E+05	-4.52E+05	4.51E+05
A2	-4.36E+05	4.57E+05	-4.36E+05	4.56E+05
FD	-4.07E+05	4.56E+05	-4.07E+05	4.56E+05
L1	-4.49E+05	4.49E+05	-4.49E+05	4.49E+05
L3	-4.34E+05	4.51E+05	-4.34E+05	4.51E+05
L4	-4.36E+05	4.51E+05	-4.36E+05	4.51E+05
NF	—	—	—	—
NS	-4.10E+05	4.27E+05	-4.05E+05	4.23E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-92. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

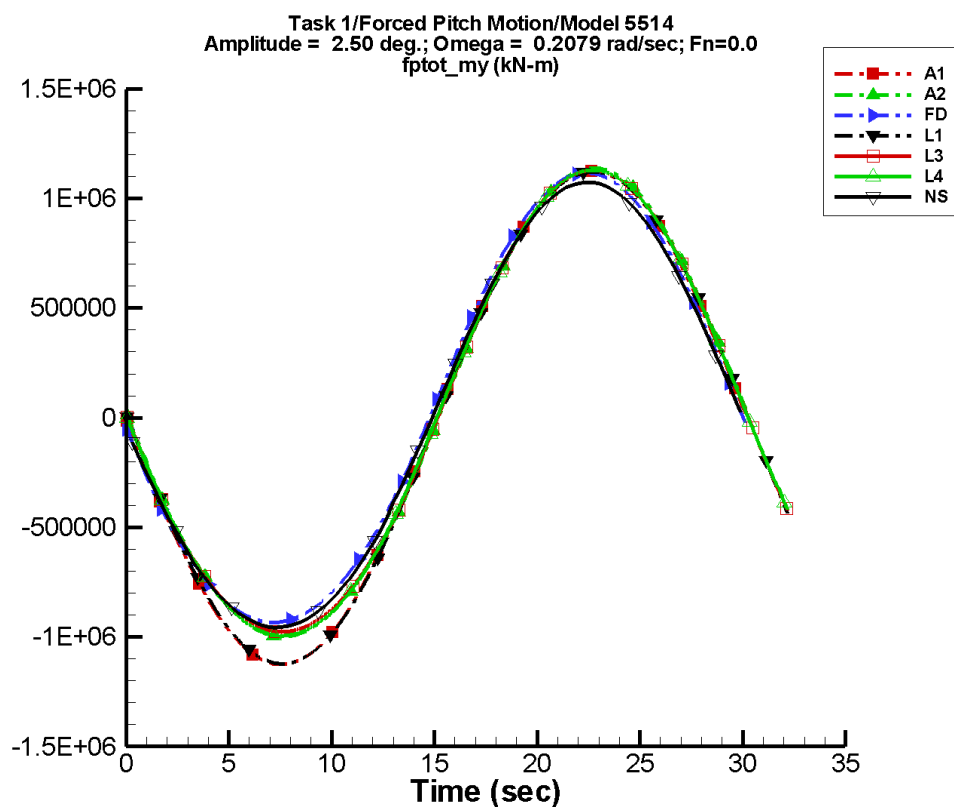
Table F–183. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-18.1	7.87E+05	-180	14.8	12
A2	1.75E+04	7.66E+05	179	1.97E+04	-94
FD	3.25E+04	7.42E+05	-177	1.92E+04	-88
L1	161.	7.86E+05	179	153.	88
L3	1.66E+04	7.61E+05	179	2.03E+04	-92
L4	1.53E+04	7.64E+05	179	1.67E+04	-88
NF	—	—	—	—	—
NS	1.39E+04	7.26E+05	-178	1.28E+04	-82

Table F–184. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.87E+05	7.87E+05	-7.88E+05	7.86E+05
A2	-7.22E+05	7.96E+05	-7.22E+05	7.95E+05
FD	-6.83E+05	7.87E+05	-6.83E+05	7.87E+05
L1	-7.86E+05	7.86E+05	-7.85E+05	7.85E+05
L3	-7.18E+05	7.90E+05	-7.17E+05	7.90E+05
L4	-7.27E+05	7.90E+05	-7.27E+05	7.90E+05
NF	—	—	—	—
NS	-6.96E+05	7.51E+05	-6.90E+05	7.43E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-93. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

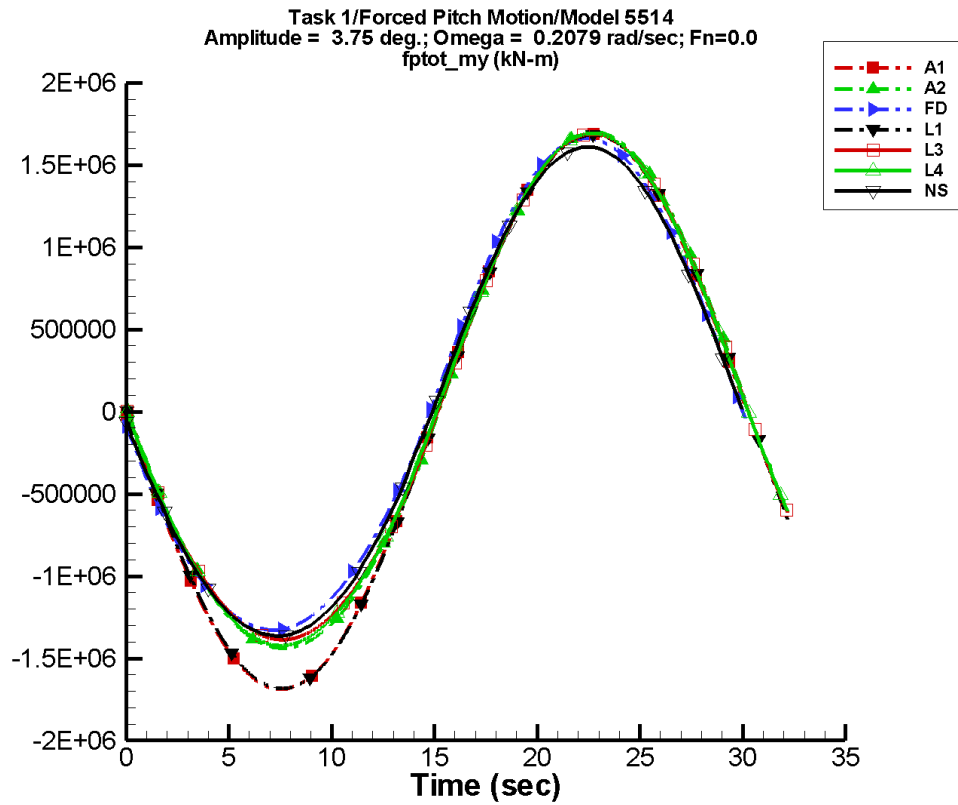
Table F–185. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-26.1	1.13E+06	-180	21.1	12
A2	3.56E+04	1.08E+06	179	3.73E+04	-93
FD	5.24E+04	1.04E+06	-177	4.11E+04	-88
L1	328.	1.12E+06	179	317.	87
L3	3.67E+04	1.06E+06	179	4.27E+04	-92
L4	3.42E+04	1.07E+06	179	3.55E+04	-89
NF	—	—	—	—	—
NS	3.05E+04	1.02E+06	-178	2.88E+04	-81

Table F–186. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.12E+06	1.13E+06	-1.13E+06	1.12E+06
A2	-9.99E+05	1.14E+06	-9.99E+05	1.14E+06
FD	-9.33E+05	1.12E+06	-9.33E+05	1.12E+06
L1	-1.12E+06	1.12E+06	-1.12E+06	1.12E+06
L3	-9.76E+05	1.13E+06	-9.76E+05	1.13E+06
L4	-9.94E+05	1.13E+06	-9.94E+05	1.13E+06
NF	—	—	—	—
NS	-9.56E+05	1.08E+06	-9.48E+05	1.06E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-94. Time history of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

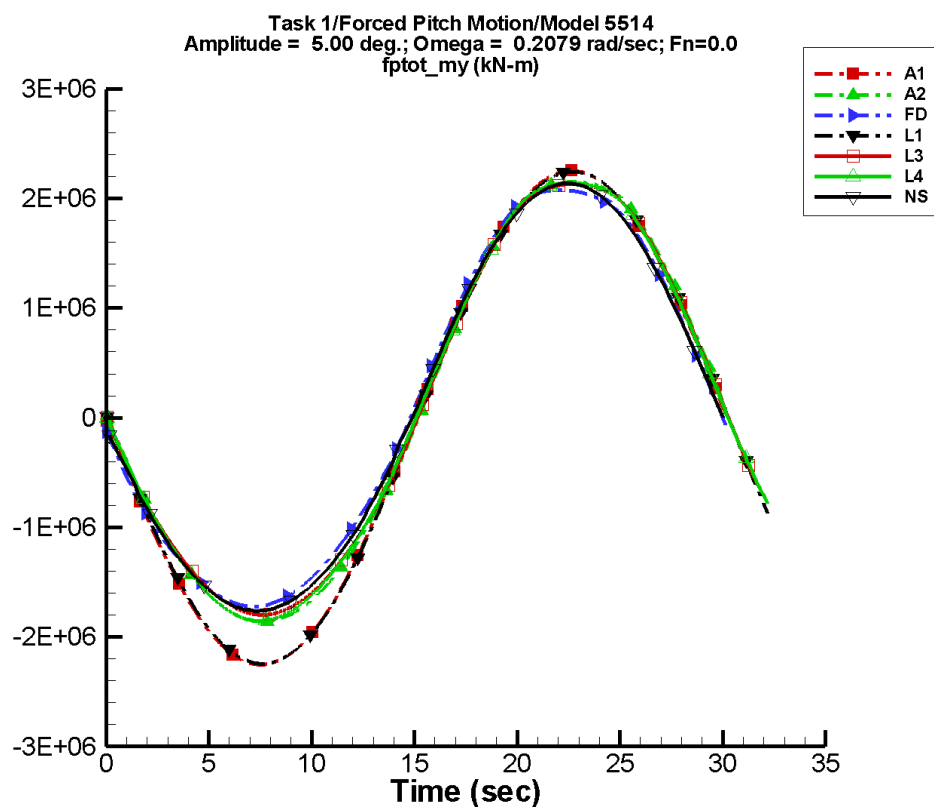
Table F–187. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-39.1	1.69E+06	-180	32.0	12
A2	6.99E+04	1.59E+06	179	6.87E+04	-93
FD	9.42E+04	1.51E+06	-176	8.14E+04	-88
L1	738.	1.68E+06	179	723.	86
L3	7.87E+04	1.56E+06	179	8.25E+04	-92
L4	7.41E+04	1.57E+06	180	6.88E+04	-90
NF	—	—	—	—	—
NS	6.60E+04	1.50E+06	-178	6.01E+04	-82

Table F–188. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.69E+06	1.69E+06	-1.69E+06	1.69E+06
A2	-1.44E+06	1.70E+06	-1.44E+06	1.70E+06
FD	-1.33E+06	1.66E+06	-1.33E+06	1.66E+06
L1	-1.68E+06	1.68E+06	-1.68E+06	1.68E+06
L3	-1.39E+06	1.69E+06	-1.39E+06	1.69E+06
L4	-1.42E+06	1.69E+06	-1.42E+06	1.69E+06
NF	—	—	—	—
NS	-1.36E+06	1.61E+06	-1.36E+06	1.60E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-95. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

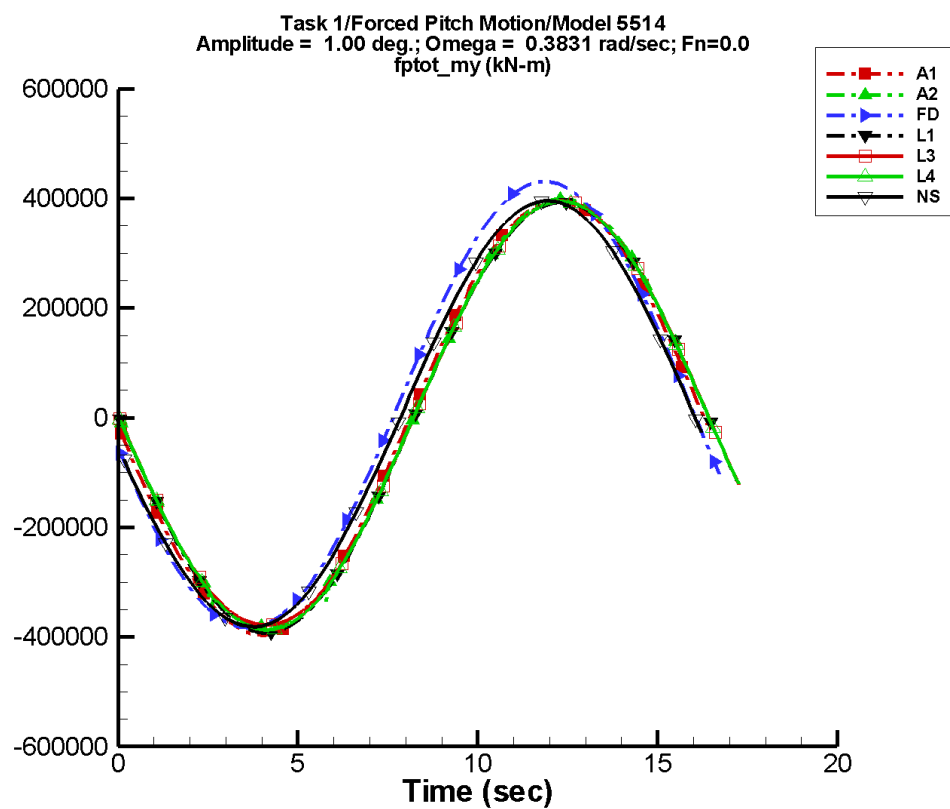
Table F–189. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-52.1	2.25E+06	-180	42.7	11
A2	9.85E+04	2.06E+06	179	8.50E+04	-92
FD	1.24E+05	1.96E+06	-176	9.62E+04	-86
L1	1.31E+03	2.24E+06	179	1.29E+03	86
L3	1.11E+05	2.02E+06	179	9.96E+04	-92
L4	1.05E+05	2.04E+06	180	7.95E+04	-92
NF	—	—	—	—	—
NS	1.07E+05	1.97E+06	-178	9.00E+04	-82

Table F–190. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.25E+06	2.25E+06	-2.25E+06	2.25E+06
A2	-1.86E+06	2.15E+06	-1.86E+06	2.15E+06
FD	-1.72E+06	2.08E+06	-1.72E+06	2.08E+06
L1	-2.24E+06	2.24E+06	-2.24E+06	2.24E+06
L3	-1.80E+06	2.13E+06	-1.80E+06	2.13E+06
L4	-1.85E+06	2.14E+06	-1.85E+06	2.14E+06
NF	—	—	—	—
NS	-1.76E+06	2.14E+06	-1.76E+06	2.13E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-96. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

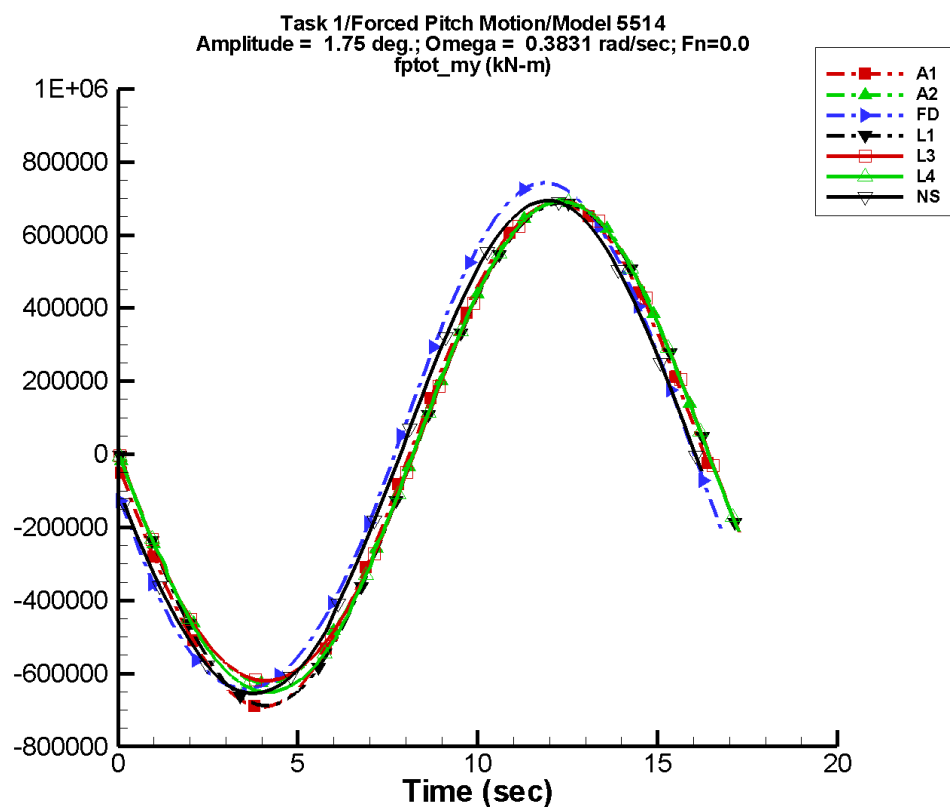
Table F–191. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-46.9	3.96E+05	-178	140.	22
A2	4.85E+03	3.92E+05	179	4.61E+03	-95
FD	2.02E+04	4.08E+05	-170	3.86E+03	-89
L1	199.	3.93E+05	179	218.	78
L3	4.37E+03	3.89E+05	179	3.71E+03	-95
L4	2.56E+03	3.91E+05	179	1.48E+03	-60
NF	—	—	—	—	—
NS	4.16E+03	3.89E+05	-172	3.26E+03	-72

Table F–192. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.97E+05	3.95E+05	-3.98E+05	3.93E+05
A2	-3.80E+05	3.99E+05	-3.81E+05	3.98E+05
FD	-3.83E+05	4.31E+05	-3.81E+05	4.29E+05
L1	-3.93E+05	3.93E+05	-3.92E+05	3.92E+05
L3	-3.78E+05	3.95E+05	-3.78E+05	3.95E+05
L4	-3.87E+05	3.95E+05	-3.86E+05	3.94E+05
NF	—	—	—	—
NS	-3.81E+05	3.96E+05	-3.78E+05	3.92E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-97. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

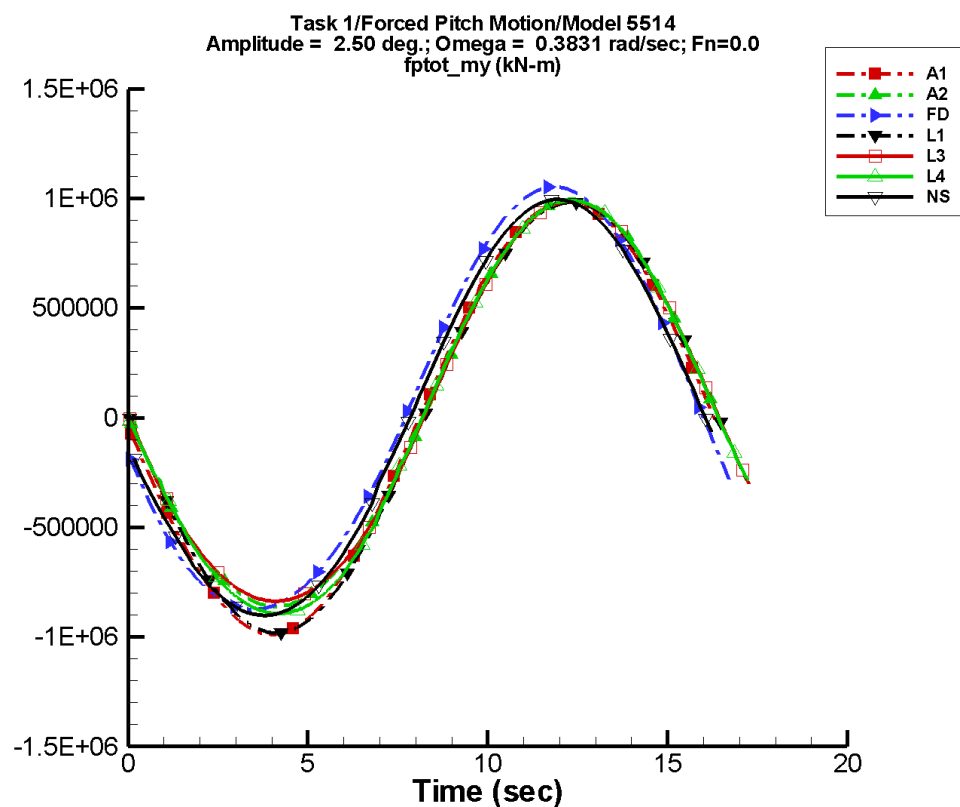
Table F–193. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-81.6	6.90E+05	-178	243.	22
A2	1.77E+04	6.67E+05	180	1.94E+04	-96
FD	3.24E+04	6.98E+05	-170	1.88E+04	-88
L1	618.	6.88E+05	179	657.	79
L3	1.71E+04	6.64E+05	180	1.82E+04	-95
L4	1.07E+04	6.76E+05	180	9.17E+03	-71
NF	—	—	—	—	—
NS	1.04E+04	6.76E+05	-172	9.21E+03	-58

Table F–194. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.91E+05	6.88E+05	-6.93E+05	6.85E+05
A2	-6.26E+05	6.96E+05	-6.27E+05	6.93E+05
FD	-6.41E+05	7.43E+05	-6.39E+05	7.40E+05
L1	-6.88E+05	6.88E+05	-6.87E+05	6.87E+05
L3	-6.20E+05	6.92E+05	-6.19E+05	6.92E+05
L4	-6.51E+05	6.92E+05	-6.50E+05	6.91E+05
NF	—	—	—	—
NS	-6.55E+05	6.95E+05	-6.49E+05	6.88E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-98. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

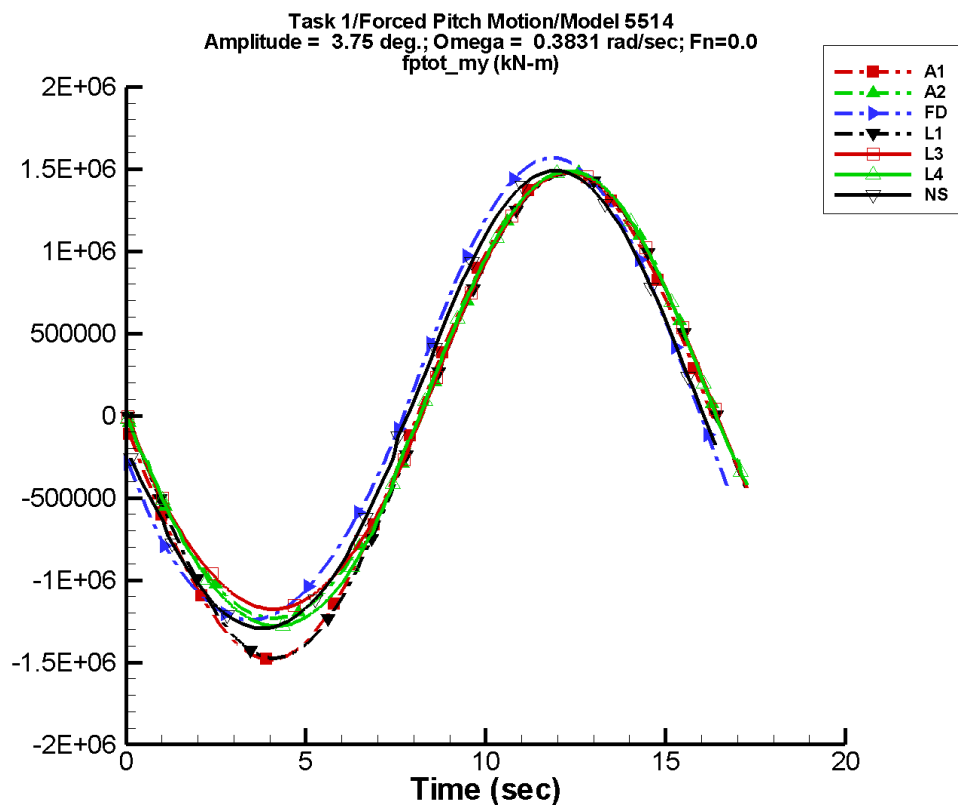
Table F–195. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-117.	9.86E+05	-178	348.	22
A2	3.55E+04	9.37E+05	180	3.72E+04	-95
FD	5.22E+04	9.75E+05	-170	4.02E+04	-88
L1	1.27E+03	9.82E+05	179	1.33E+03	79
L3	3.76E+04	9.26E+05	180	3.89E+04	-95
L4	2.58E+04	9.52E+05	180	2.21E+04	-75
NF	—	—	—	—	—
NS	2.48E+04	9.54E+05	-172	2.23E+04	-61

Table F–196. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.88E+05	9.83E+05	-9.91E+05	9.80E+05
A2	-8.61E+05	9.96E+05	-8.63E+05	9.92E+05
FD	-8.75E+05	1.05E+06	-8.72E+05	1.05E+06
L1	-9.83E+05	9.82E+05	-9.81E+05	9.81E+05
L3	-8.37E+05	9.89E+05	-8.36E+05	9.87E+05
L4	-8.93E+05	9.90E+05	-8.92E+05	9.89E+05
NF	—	—	—	—
NS	-9.03E+05	9.96E+05	-8.94E+05	9.86E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-99. Time history of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

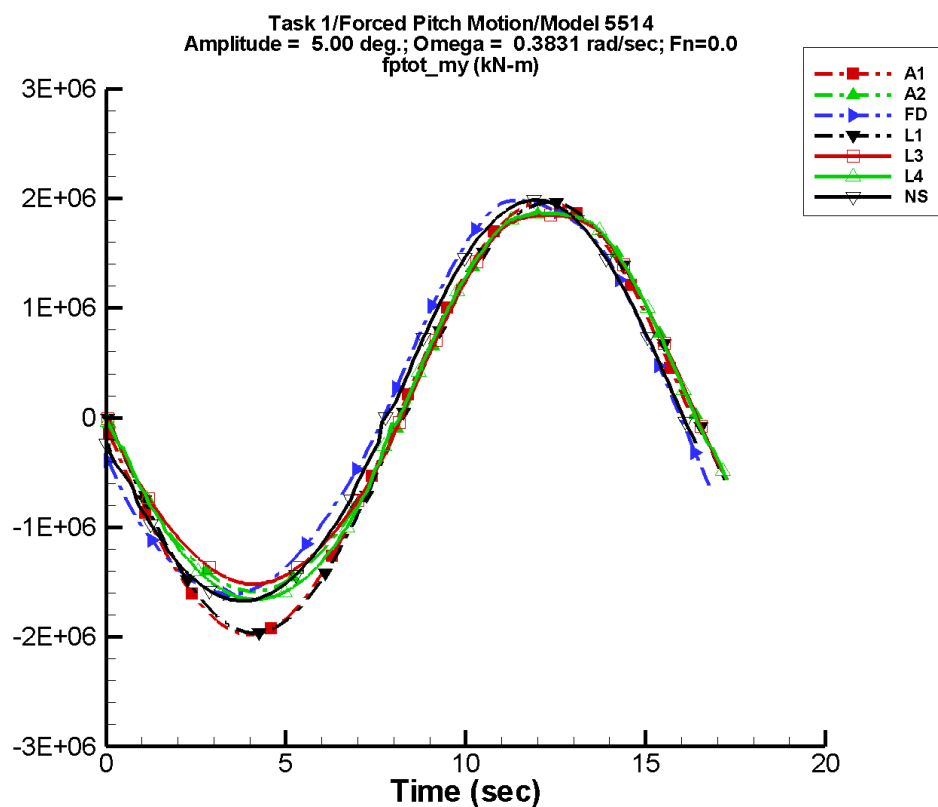
Table F–197. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-175.	1.48E+06	-178	522.	22
A2	7.00E+04	1.38E+06	180	6.82E+04	-95
FD	9.39E+04	1.42E+06	-169	7.97E+04	-89
L1	2.86E+03	1.47E+06	179	2.98E+03	79
L3	8.06E+04	1.35E+06	180	7.67E+04	-94
L4	5.90E+04	1.40E+06	180	4.60E+04	-78
NF	—	—	—	—	—
NS	5.38E+04	1.40E+06	-173	4.85E+04	-61

Table F–198. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.48E+06	1.47E+06	-1.49E+06	1.47E+06
A2	-1.23E+06	1.49E+06	-1.23E+06	1.48E+06
FD	-1.24E+06	1.57E+06	-1.24E+06	1.56E+06
L1	-1.47E+06	1.47E+06	-1.47E+06	1.47E+06
L3	-1.18E+06	1.48E+06	-1.18E+06	1.48E+06
L4	-1.28E+06	1.49E+06	-1.28E+06	1.48E+06
NF	—	—	—	—
NS	-1.29E+06	1.49E+06	-1.29E+06	1.48E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-100. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

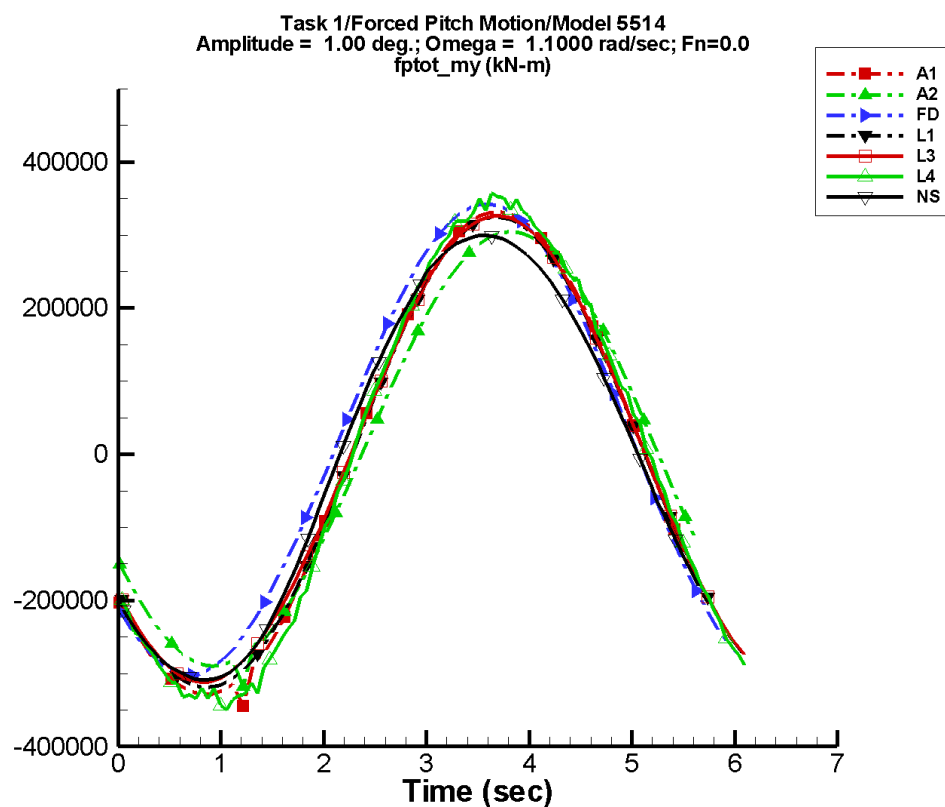
Table F–199. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-234.	1.97E+06	-178	696.	22
A2	9.78E+04	1.78E+06	180	8.45E+04	-95
FD	1.24E+05	1.83E+06	-169	9.10E+04	-88
L1	5.10E+03	1.96E+06	179	5.29E+03	79
L3	1.14E+05	1.74E+06	180	9.06E+04	-94
L4	8.39E+04	1.83E+06	-180	4.91E+04	-78
NF	—	—	—	—	—
NS	9.08E+04	1.84E+06	-173	7.32E+04	-61

Table F–200. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.98E+06	1.97E+06	-1.98E+06	1.96E+06
A2	-1.58E+06	1.87E+06	-1.59E+06	1.86E+06
FD	-1.61E+06	1.98E+06	-1.60E+06	1.98E+06
L1	-1.97E+06	1.96E+06	-1.96E+06	1.96E+06
L3	-1.52E+06	1.85E+06	-1.52E+06	1.85E+06
L4	-1.66E+06	1.88E+06	-1.66E+06	1.87E+06
NF	—	—	—	—
NS	-1.67E+06	1.99E+06	-1.67E+06	1.98E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-101. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

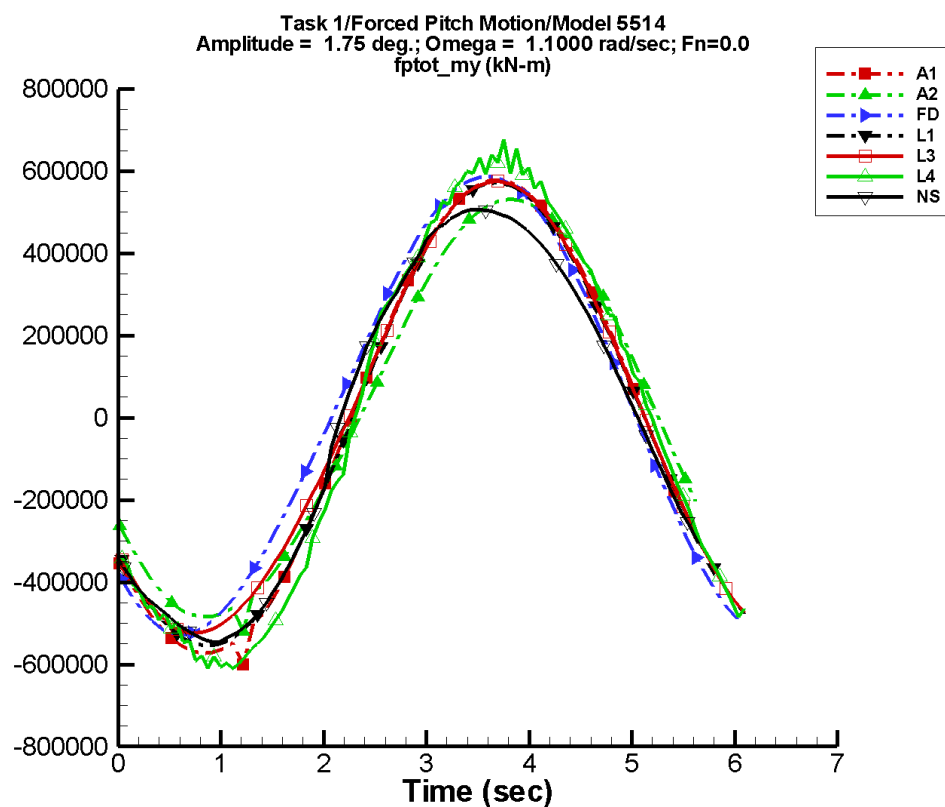
Table F–201. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-270.	3.33E+05	-143	4.37E+03	83
A2	4.93E+03	3.00E+05	-151	767.	-154
FD	2.02E+04	3.21E+05	-135	4.06E+03	-90
L1	464.	3.22E+05	-143	3.72E+03	34
L3	4.63E+03	3.18E+05	-143	3.30E+03	-40
L4	2.53E+03	3.45E+05	-145	1.02E+04	79
NF	—	—	—	—	—
NS	473.	3.07E+05	-138	1.09E+04	117

Table F–202. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.50E+05	3.32E+05	-3.25E+05	3.22E+05
A2	-3.18E+05	3.05E+05	-2.89E+05	2.96E+05
FD	-3.03E+05	3.42E+05	-2.92E+05	3.32E+05
L1	-3.19E+05	3.25E+05	-3.15E+05	3.21E+05
L3	-3.12E+05	3.26E+05	-3.08E+05	3.23E+05
L4	-3.66E+05	3.57E+05	-3.37E+05	3.44E+05
NF	—	—	—	—
NS	-3.09E+05	2.99E+05	-3.06E+05	2.97E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-102. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

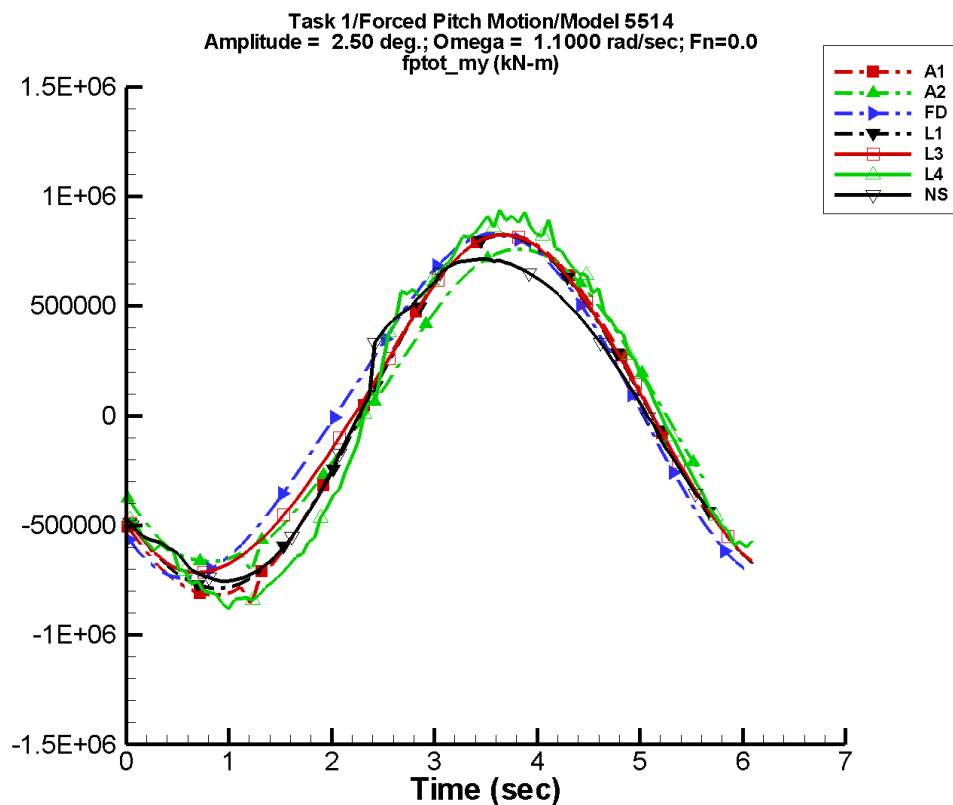
Table F–203. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-470.	5.80E+05	-143	7.62E+03	83
A2	1.72E+04	5.10E+05	-150	1.17E+04	-110
FD	3.24E+04	5.51E+05	-134	1.99E+04	-90
L1	1.28E+03	5.63E+05	-143	1.12E+04	34
L3	1.77E+04	5.44E+05	-142	1.53E+04	-65
L4	1.15E+04	6.15E+05	-146	3.48E+04	61
NF	—	—	—	—	—
NS	-8.88E+03	5.32E+05	-139	3.57E+04	95

Table F–204. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.09E+05	5.78E+05	-5.66E+05	5.61E+05
A2	-5.22E+05	5.32E+05	-4.80E+05	5.15E+05
FD	-5.28E+05	5.86E+05	-5.08E+05	5.69E+05
L1	-5.55E+05	5.71E+05	-5.49E+05	5.65E+05
L3	-5.24E+05	5.75E+05	-5.18E+05	5.68E+05
L4	-6.11E+05	6.77E+05	-5.96E+05	6.25E+05
NF	—	—	—	—
NS	-5.46E+05	5.06E+05	-5.36E+05	5.02E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-103. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

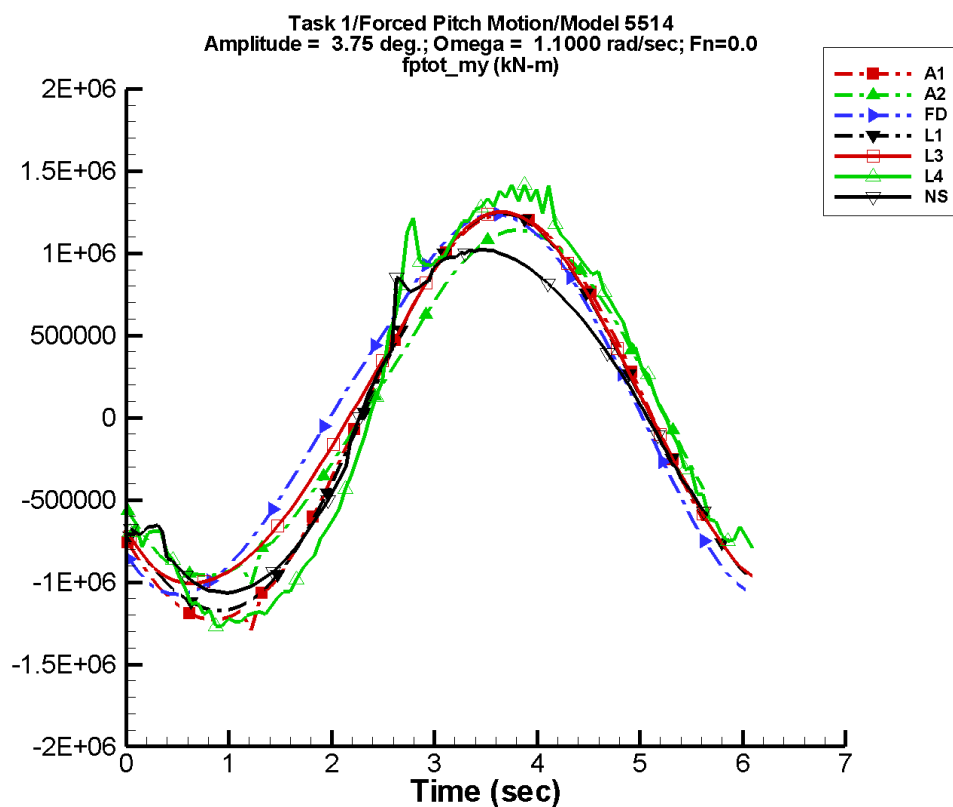
Table F–205. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-672.	8.30E+05	-143	1.09E+04	83
A2	3.49E+04	7.16E+05	-149	2.62E+04	-107
FD	5.23E+04	7.72E+05	-133	4.26E+04	-90
L1	2.49E+03	8.04E+05	-143	2.27E+04	34
L3	3.87E+04	7.61E+05	-141	3.26E+04	-67
L4	2.93E+04	8.82E+05	-147	6.73E+04	58
NF	—	—	—	—	—
NS	-7.02E+03	7.45E+05	-140	6.77E+04	84

Table F–206. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.71E+05	8.27E+05	-8.09E+05	8.02E+05
A2	-7.25E+05	7.60E+05	-6.60E+05	7.37E+05
FD	-7.39E+05	8.31E+05	-7.09E+05	8.06E+05
L1	-7.88E+05	8.21E+05	-7.80E+05	8.12E+05
L3	-7.16E+05	8.26E+05	-7.09E+05	8.17E+05
L4	-8.82E+05	9.38E+05	-8.43E+05	8.96E+05
NF	—	—	—	—
NS	-7.55E+05	7.16E+05	-7.46E+05	7.10E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-104. Time history of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

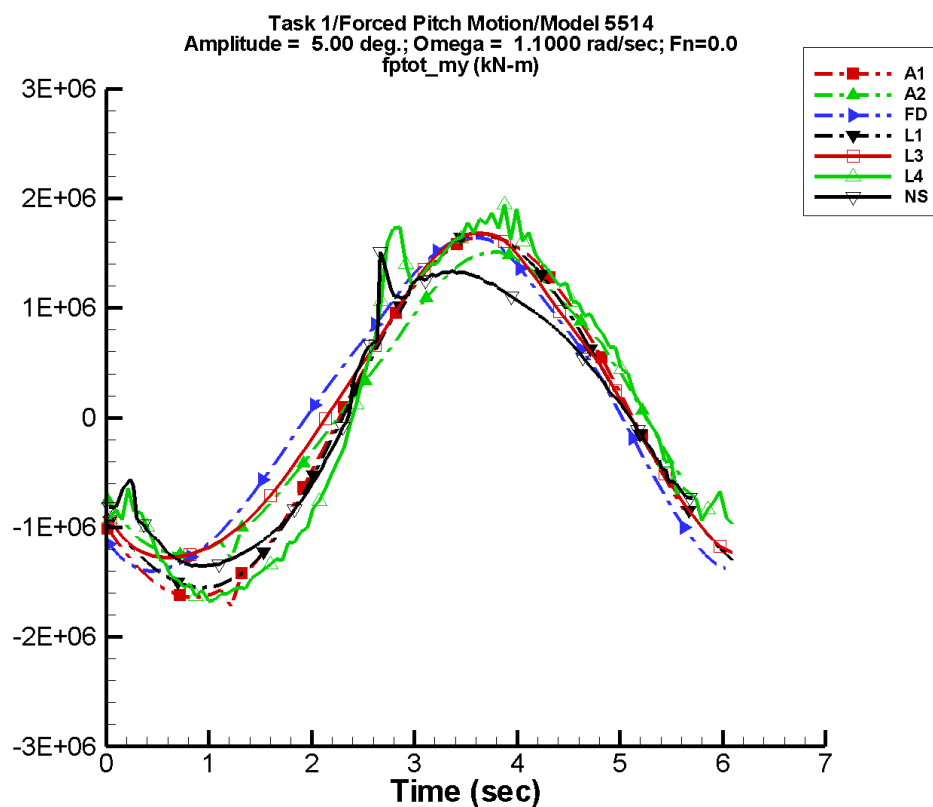
Table F–207. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.01E+03	1.24E+06	-143	1.63E+04	83
A2	6.91E+04	1.05E+06	-148	5.17E+04	-106
FD	9.38E+04	1.13E+06	-131	8.40E+04	-90
L1	5.39E+03	1.21E+06	-143	5.08E+04	35
L3	8.28E+04	1.11E+06	-139	6.26E+04	-61
L4	7.15E+04	1.32E+06	-149	1.41E+05	57
NF	—	—	—	—	—
NS	-1.95E+04	1.05E+06	-141	1.27E+05	71

Table F–208. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.31E+06	1.24E+06	-1.21E+06	1.20E+06
A2	-1.05E+06	1.14E+06	-9.49E+05	1.11E+06
FD	-1.07E+06	1.24E+06	-1.03E+06	1.20E+06
L1	-1.17E+06	1.25E+06	-1.16E+06	1.23E+06
L3	-1.01E+06	1.25E+06	-9.99E+05	1.24E+06
L4	-1.32E+06	1.41E+06	-1.24E+06	1.36E+06
NF	—	—	—	—
NS	-1.07E+06	1.02E+06	-1.06E+06	1.01E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-105. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

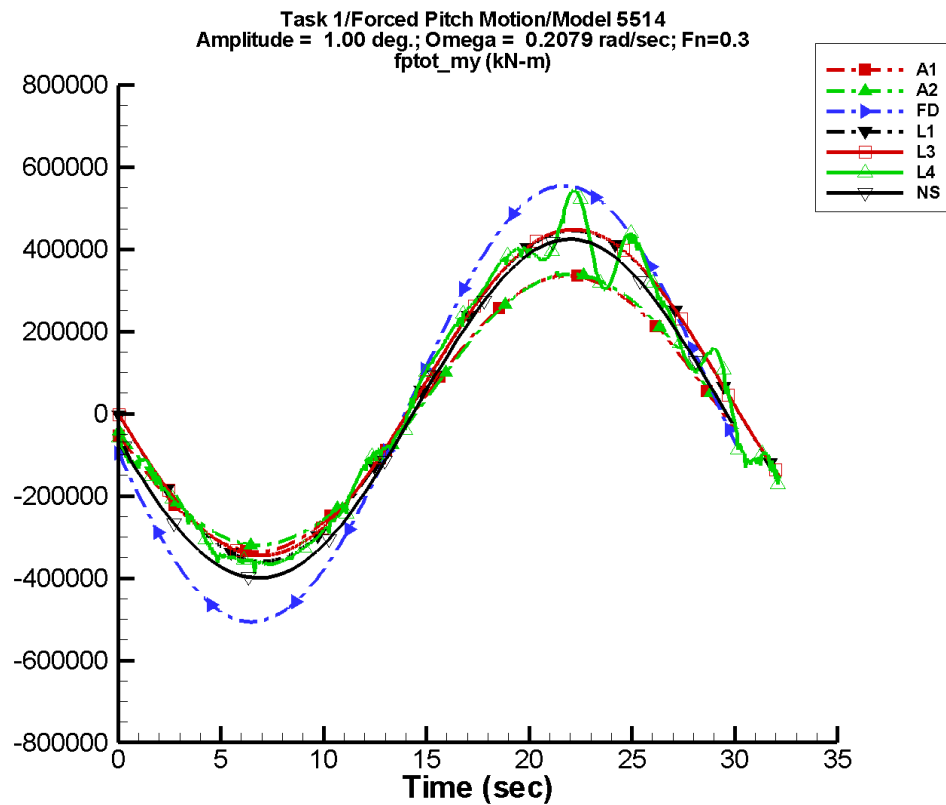
Table F–209. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.35E+03	1.66E+06	-143	2.18E+04	83
A2	9.61E+04	1.36E+06	-146	6.20E+04	-106
FD	1.23E+05	1.46E+06	-129	1.01E+05	-90
L1	9.41E+03	1.61E+06	-143	9.00E+04	35
L3	1.18E+05	1.44E+06	-138	7.95E+04	-41
L4	9.79E+04	1.73E+06	-149	2.29E+05	57
NF	—	—	—	—	—
NS	-1.08E+04	1.33E+06	-142	2.10E+05	73

Table F–210. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.74E+06	1.65E+06	-1.62E+06	1.60E+06
A2	-1.37E+06	1.51E+06	-1.23E+06	1.45E+06
FD	-1.40E+06	1.64E+06	-1.34E+06	1.58E+06
L1	-1.55E+06	1.68E+06	-1.53E+06	1.66E+06
L3	-1.27E+06	1.69E+06	-1.27E+06	1.66E+06
L4	-1.71E+06	1.95E+06	-1.63E+06	1.80E+06
NF	—	—	—	—
NS	-1.36E+06	1.51E+06	-1.35E+06	1.32E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-106. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

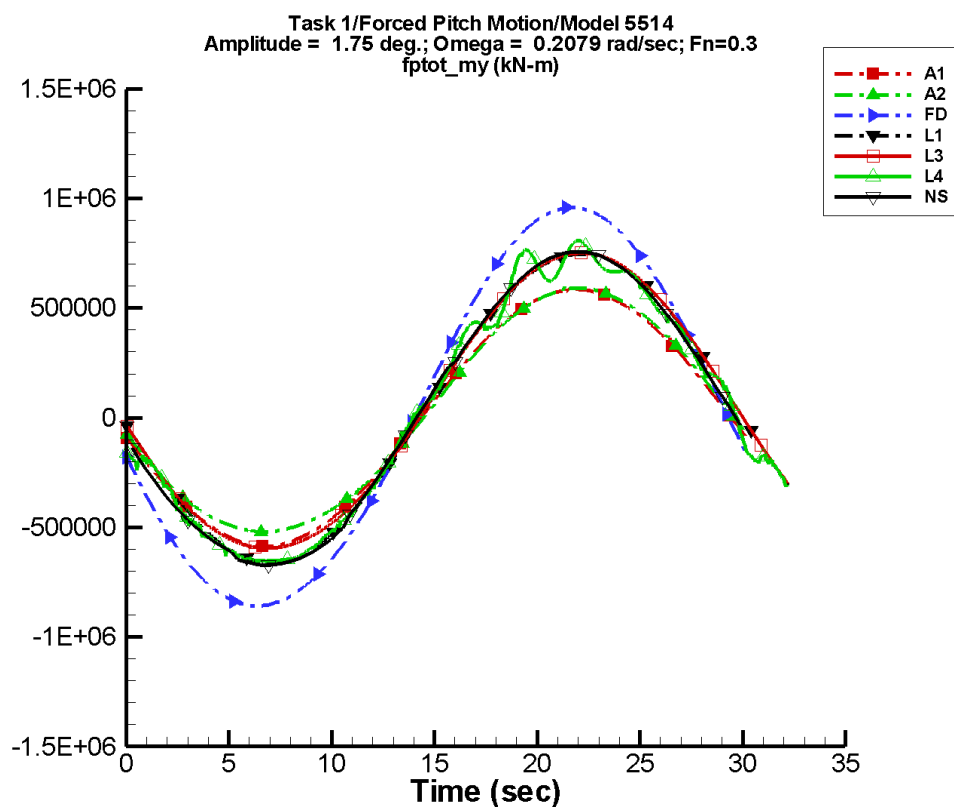
Table F–211. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-328.	3.35E+05	-171	716.	5
A2	4.88E+03	3.30E+05	-173	4.83E+03	-86
FD	2.02E+04	5.32E+05	-168	3.94E+03	-88
L1	4.35E+04	4.02E+05	-174	263.	111
L3	4.77E+04	3.98E+05	-174	3.99E+03	-93
L4	3.94E+04	4.04E+05	-171	3.60E+03	27
NF	—	—	—	—	—
NS	9.72E+03	4.13E+05	-171	4.01E+03	-92

Table F–212. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.44E+05	3.44E+05	-3.36E+05	3.36E+05
A2	-3.27E+05	3.46E+05	-3.20E+05	3.39E+05
FD	-5.06E+05	5.54E+05	-5.06E+05	5.54E+05
L1	-3.59E+05	4.45E+05	-3.59E+05	4.45E+05
L3	-3.45E+05	4.48E+05	-3.44E+05	4.48E+05
L4	-3.88E+05	5.43E+05	-3.66E+05	5.39E+05
NF	—	—	—	—
NS	-4.00E+05	4.29E+05	-3.96E+05	4.24E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-107. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

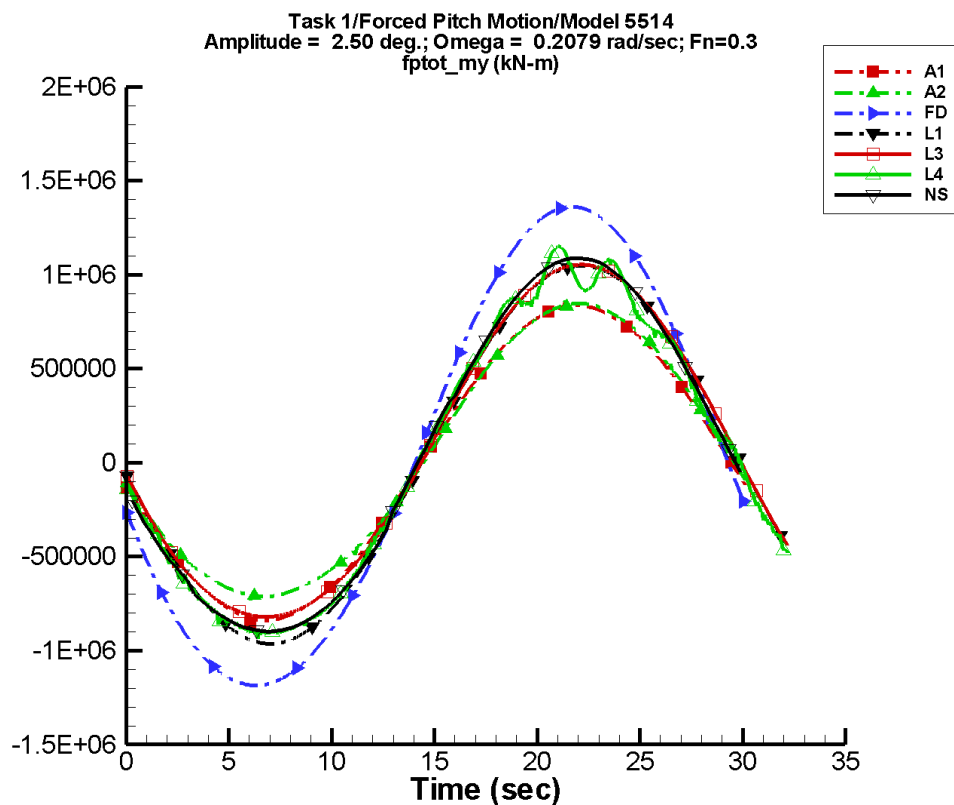
Table F–213. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-573.	5.84E+05	-171	1.25E+03	5
A2	1.70E+04	5.60E+05	-172	1.96E+04	-91
FD	3.25E+04	9.14E+05	-168	1.92E+04	-88
L1	4.35E+04	7.04E+05	-174	809.	110
L3	6.00E+04	6.80E+05	-174	1.97E+04	-92
L4	3.74E+04	7.02E+05	-171	8.55E+03	-27
NF	—	—	—	—	—
NS	3.59E+04	7.14E+05	-171	7.94E+03	-61

Table F–214. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.00E+05	5.99E+05	-5.86E+05	5.85E+05
A2	-5.35E+05	6.03E+05	-5.21E+05	5.91E+05
FD	-8.58E+05	9.59E+05	-8.58E+05	9.58E+05
L1	-6.61E+05	7.47E+05	-6.61E+05	7.46E+05
L3	-5.95E+05	7.51E+05	-5.94E+05	7.51E+05
L4	-6.54E+05	8.07E+05	-6.53E+05	8.04E+05
NF	—	—	—	—
NS	-6.71E+05	7.62E+05	-6.66E+05	7.54E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-108. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

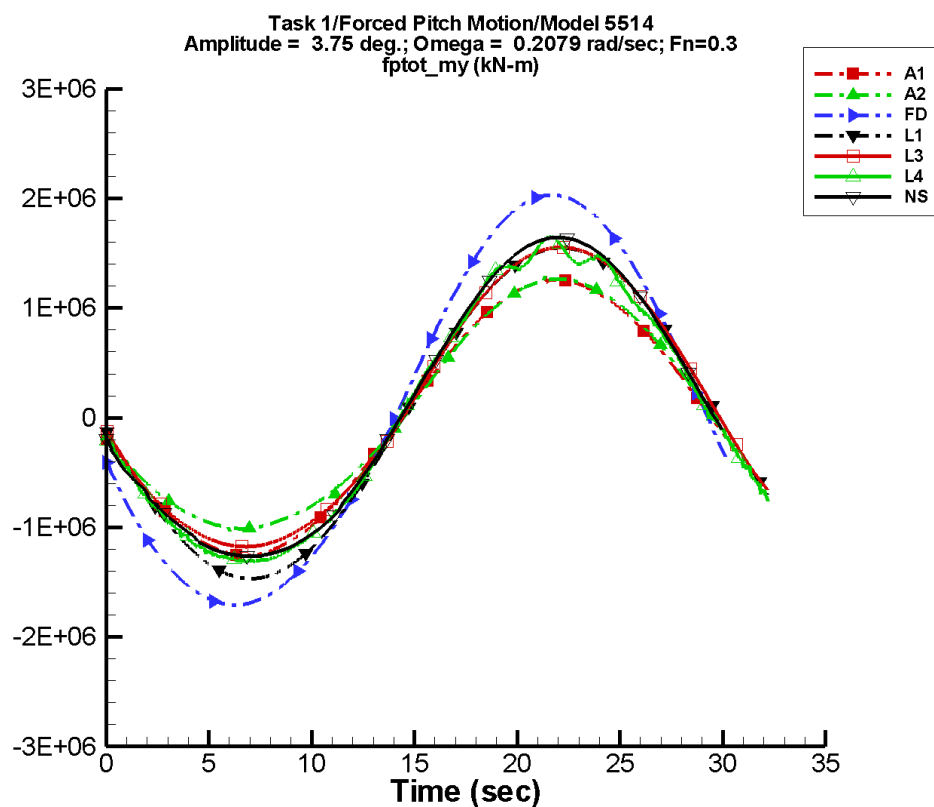
Table F–215. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-819.	8.35E+05	-171	1.78E+03	5
A2	3.48E+04	7.84E+05	-172	3.71E+04	-91
FD	5.24E+04	1.28E+06	-168	4.11E+04	-88
L1	4.36E+04	1.01E+06	-174	1.65E+03	110
L3	7.99E+04	9.49E+05	-173	4.15E+04	-92
L4	4.67E+04	9.84E+05	-171	2.11E+04	-47
NF	—	—	—	—	—
NS	6.04E+04	1.00E+06	-171	3.51E+04	-67

Table F–216. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.57E+05	8.56E+05	-8.38E+05	8.37E+05
A2	-7.32E+05	8.63E+05	-7.12E+05	8.46E+05
FD	-1.19E+06	1.36E+06	-1.18E+06	1.36E+06
L1	-9.64E+05	1.05E+06	-9.63E+05	1.05E+06
L3	-8.20E+05	1.05E+06	-8.20E+05	1.05E+06
L4	-9.36E+05	1.15E+06	-9.08E+05	1.14E+06
NF	—	—	—	—
NS	-8.98E+05	1.09E+06	-8.90E+05	1.08E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-109. Time history of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

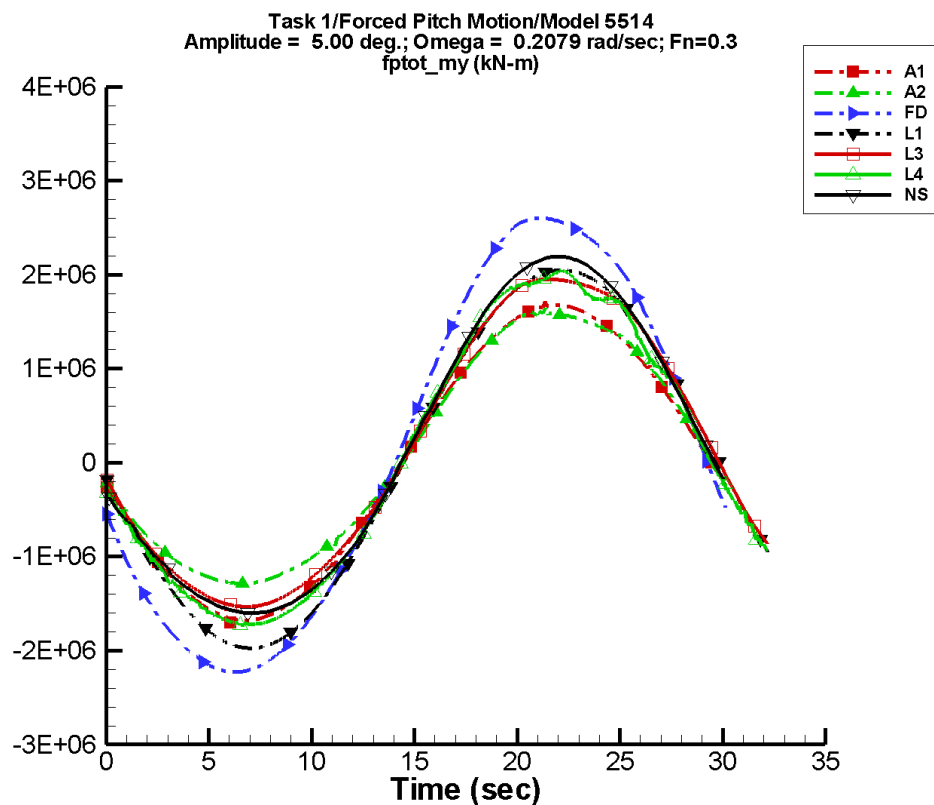
Table F–217. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.23E+03	1.25E+06	-171	2.67E+03	5
A2	6.88E+04	1.15E+06	-172	6.83E+04	-91
FD	9.42E+04	1.89E+06	-167	8.14E+04	-88
L1	4.37E+04	1.51E+06	-174	3.72E+03	110
L3	1.22E+05	1.38E+06	-173	7.98E+04	-93
L4	6.82E+04	1.44E+06	-171	5.70E+04	-58
NF	—	—	—	—	—
NS	1.10E+05	1.46E+06	-172	8.55E+04	-69

Table F–218. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.29E+06	1.28E+06	-1.26E+06	1.26E+06
A2	-1.04E+06	1.29E+06	-1.01E+06	1.26E+06
FD	-1.71E+06	2.03E+06	-1.71E+06	2.03E+06
L1	-1.47E+06	1.55E+06	-1.47E+06	1.55E+06
L3	-1.18E+06	1.55E+06	-1.18E+06	1.55E+06
L4	-1.33E+06	1.65E+06	-1.31E+06	1.64E+06
NF	—	—	—	—
NS	-1.27E+06	1.65E+06	-1.26E+06	1.64E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-110. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

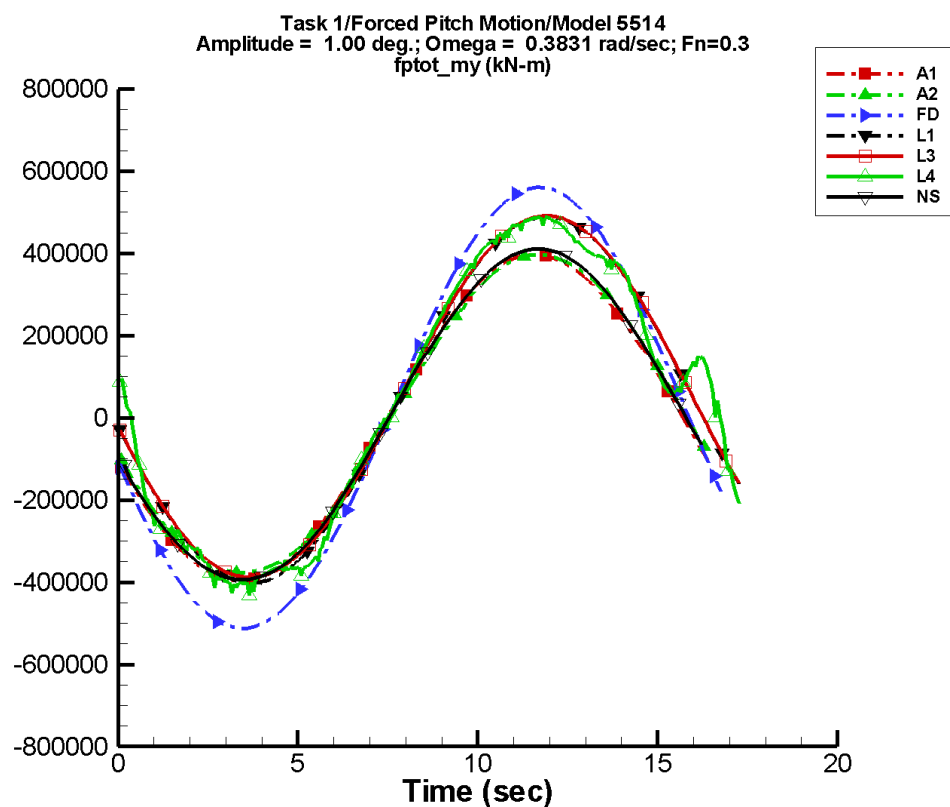
Table F–219. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.64E+03	1.67E+06	-171	3.57E+03	5
A2	9.69E+04	1.47E+06	-171	8.46E+04	-90
FD	1.24E+05	2.45E+06	-167	9.62E+04	-86
L1	4.39E+04	2.01E+06	-174	6.62E+03	110
L3	1.54E+05	1.79E+06	-173	9.48E+04	-93
L4	8.30E+04	1.88E+06	-171	7.63E+04	-54
NF	—	—	—	—	—
NS	1.66E+05	1.91E+06	-172	1.47E+05	-68

Table F–220. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.72E+06	1.71E+06	-1.68E+06	1.68E+06
A2	-1.33E+06	1.65E+06	-1.29E+06	1.59E+06
FD	-2.23E+06	2.60E+06	-2.22E+06	2.60E+06
L1	-1.97E+06	2.05E+06	-1.97E+06	2.05E+06
L3	-1.53E+06	1.95E+06	-1.53E+06	1.95E+06
L4	-1.74E+06	2.04E+06	-1.72E+06	2.03E+06
NF	—	—	—	—
NS	-1.60E+06	2.19E+06	-1.60E+06	2.19E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-111. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

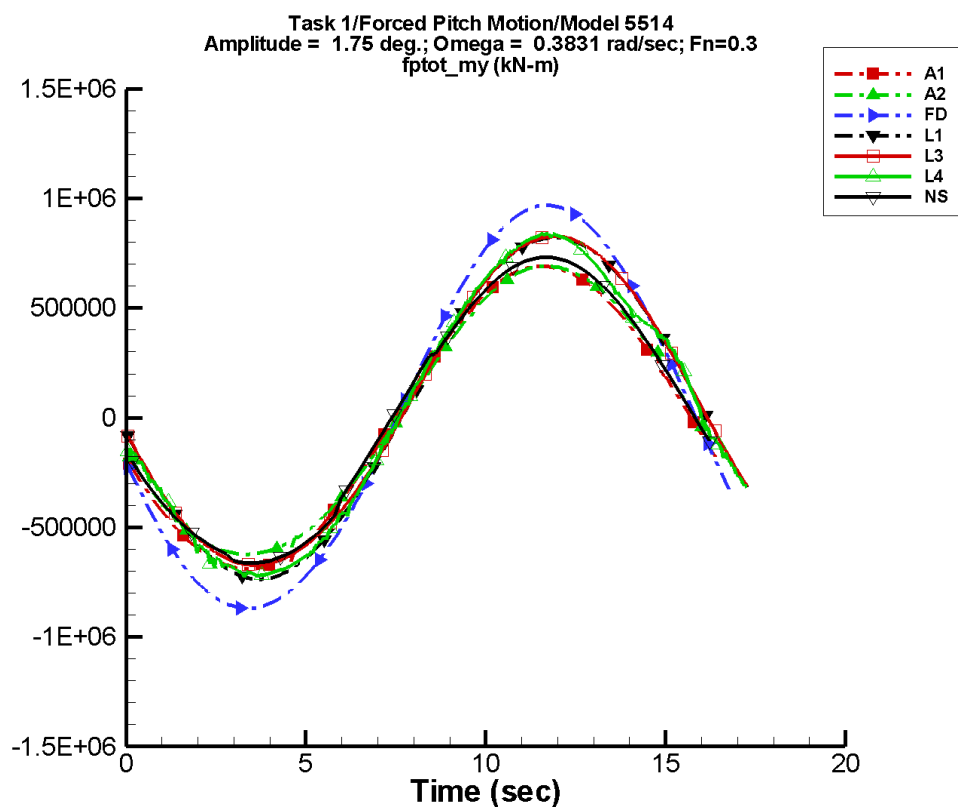
Table F–221. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	179.	3.96E+05	-165	160.	111
A2	5.08E+03	3.89E+05	-167	4.54E+03	-98
FD	2.02E+04	5.37E+05	-167	3.86E+03	-89
L1	4.36E+04	4.45E+05	-171	388.	130
L3	4.78E+04	4.41E+05	-171	3.66E+03	-99
L4	4.00E+04	4.45E+05	-170	1.57E+04	73
NF	—	—	—	—	—
NS	6.26E+03	4.04E+05	-166	2.43E+03	-97

Table F–222. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.08E+05	3.97E+05	-3.95E+05	3.95E+05
A2	-3.90E+05	3.96E+05	-3.76E+05	3.95E+05
FD	-5.13E+05	5.60E+05	-5.11E+05	5.58E+05
L1	-4.02E+05	4.89E+05	-4.02E+05	4.88E+05
L3	-3.88E+05	4.91E+05	-3.88E+05	4.91E+05
L4	-4.33E+05	4.88E+05	-4.08E+05	4.84E+05
NF	—	—	—	—
NS	-3.94E+05	4.15E+05	-3.90E+05	4.11E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-112. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Table F–223. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	313.	6.91E+05	-165	279.	111
A2	1.81E+04	6.62E+05	-167	1.93E+04	-97
FD	3.24E+04	9.25E+05	-166	1.88E+04	-88
L1	4.39E+04	7.79E+05	-171	1.19E+03	130
L3	6.03E+04	7.56E+05	-171	1.80E+04	-98
L4	4.21E+04	7.68E+05	-170	1.36E+04	13
NF	—	—	—	—	—
NS	3.08E+04	6.99E+05	-166	4.69E+03	-7

Table F–224. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.12E+05	6.91E+05	-6.88E+05	6.88E+05
A2	-6.44E+05	6.91E+05	-6.21E+05	6.88E+05
FD	-8.70E+05	9.69E+05	-8.67E+05	9.65E+05
L1	-7.37E+05	8.22E+05	-7.36E+05	8.21E+05
L3	-6.72E+05	8.27E+05	-6.71E+05	8.26E+05
L4	-7.28E+05	8.39E+05	-7.16E+05	8.35E+05
NF	—	—	—	—
NS	-6.63E+05	7.40E+05	-6.56E+05	7.32E+05

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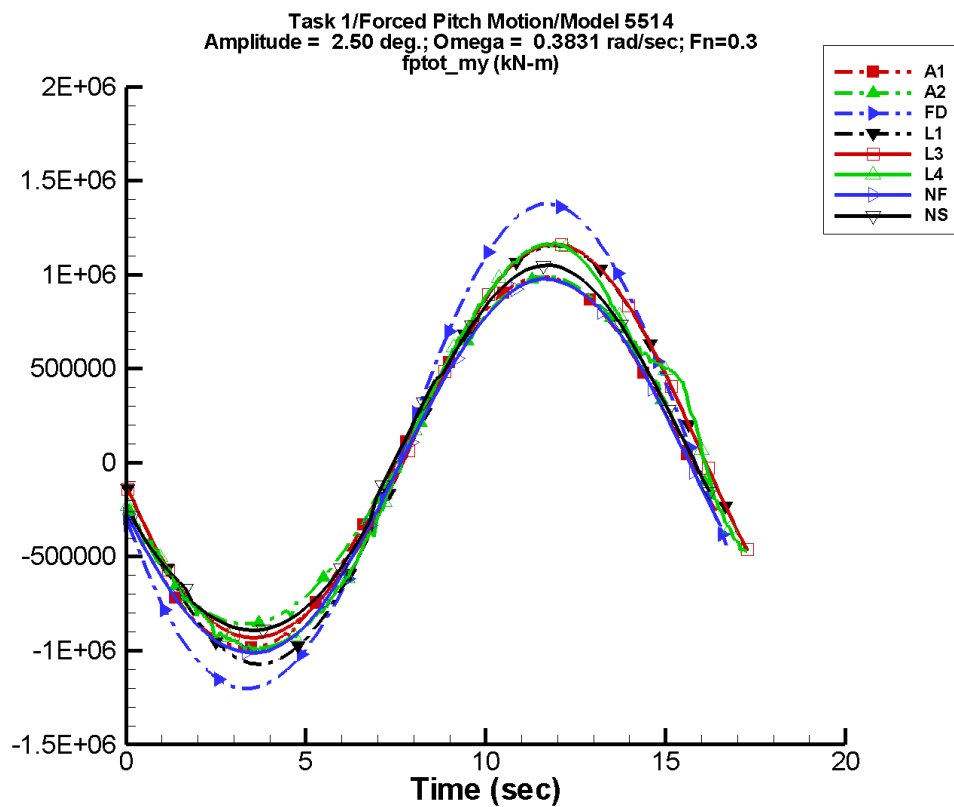


Figure F-113. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–225. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	447.	9.88E+05	-165	398.	111
A2	3.61E+04	9.30E+05	-166	3.70E+04	-96
FD	5.22E+04	1.30E+06	-166	4.02E+04	-88
L1	4.42E+04	1.11E+06	-171	2.42E+03	130
L3	8.06E+04	1.06E+06	-171	3.86E+04	-97
L4	5.40E+04	1.07E+06	-170	2.08E+04	-30
NF	-1.19E+04	1.01E+06	-154	1.21E+04	9
NS	5.04E+04	9.82E+05	-166	2.79E+04	-49

Table F–226. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.02E+06	9.88E+05	-9.83E+05	9.84E+05
A2	-8.88E+05	9.89E+05	-8.55E+05	9.85E+05
FD	-1.20E+06	1.38E+06	-1.20E+06	1.37E+06
L1	-1.07E+06	1.16E+06	-1.07E+06	1.15E+06
L3	-9.31E+05	1.16E+06	-9.30E+05	1.16E+06
L4	-1.02E+06	1.18E+06	-9.87E+05	1.16E+06
NF	-1.01E+06	1.03E+06	-1.01E+06	1.02E+06
NS	-8.91E+05	1.06E+06	-8.83E+05	1.05E+06

TASK 1/PITCH MOTION/MODEL 5514

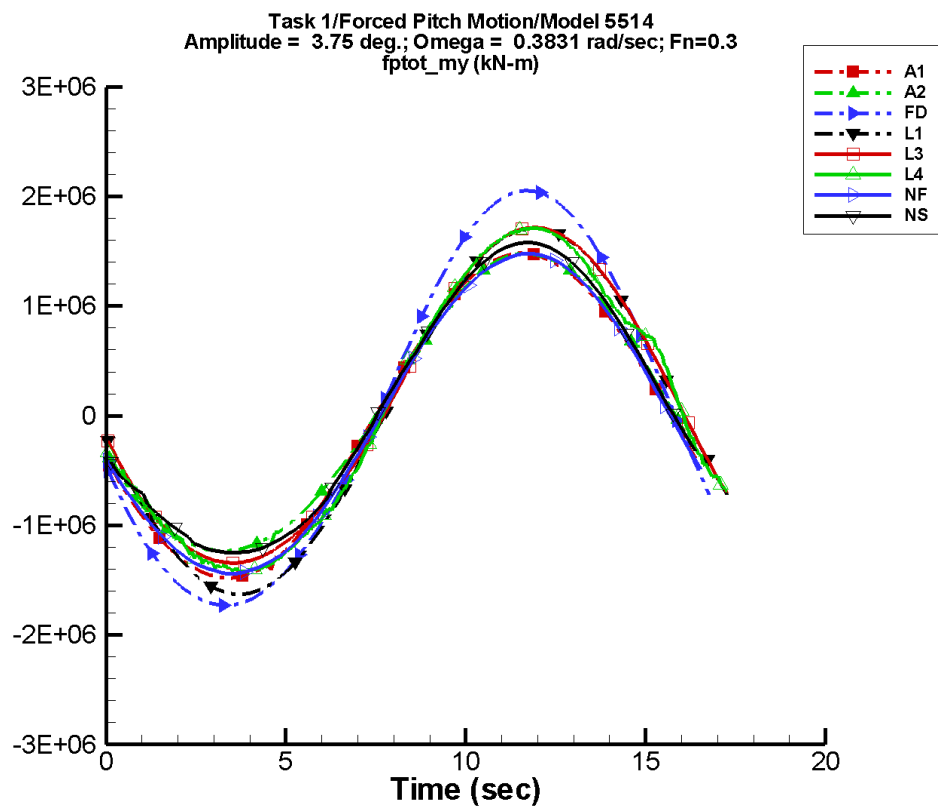


Figure F-114. Time history of M_y^{tot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–227. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	670.	1.48E+06	-165	597.	111
A2	7.08E+04	1.37E+06	-166	6.79E+04	-95
FD	9.39E+04	1.91E+06	-166	7.97E+04	-89
L1	4.52E+04	1.67E+06	-171	5.44E+03	130
L3	1.23E+05	1.55E+06	-171	7.58E+04	-97
L4	8.79E+04	1.57E+06	-170	5.07E+04	-53
NF	5.63E+03	1.47E+06	-154	3.36E+04	-17
NS	9.18E+04	1.43E+06	-167	7.61E+04	-57

Table F–228. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.53E+06	1.48E+06	-1.47E+06	1.48E+06
A2	-1.28E+06	1.48E+06	-1.23E+06	1.47E+06
FD	-1.73E+06	2.05E+06	-1.73E+06	2.05E+06
L1	-1.63E+06	1.71E+06	-1.63E+06	1.71E+06
L3	-1.34E+06	1.72E+06	-1.34E+06	1.71E+06
L4	-1.44E+06	1.71E+06	-1.41E+06	1.71E+06
NF	-1.44E+06	1.54E+06	-1.43E+06	1.53E+06
NS	-1.25E+06	1.59E+06	-1.25E+06	1.58E+06

TASK 1/PITCH MOTION/MODEL 5514

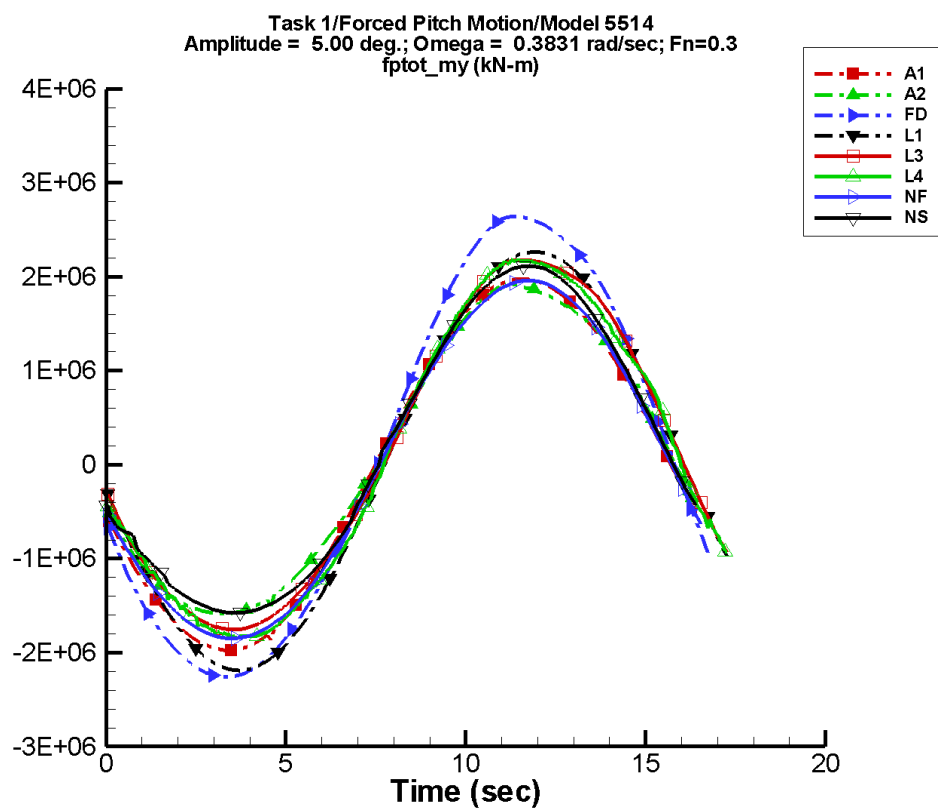


Figure F-115. Time history of M_y^{tot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

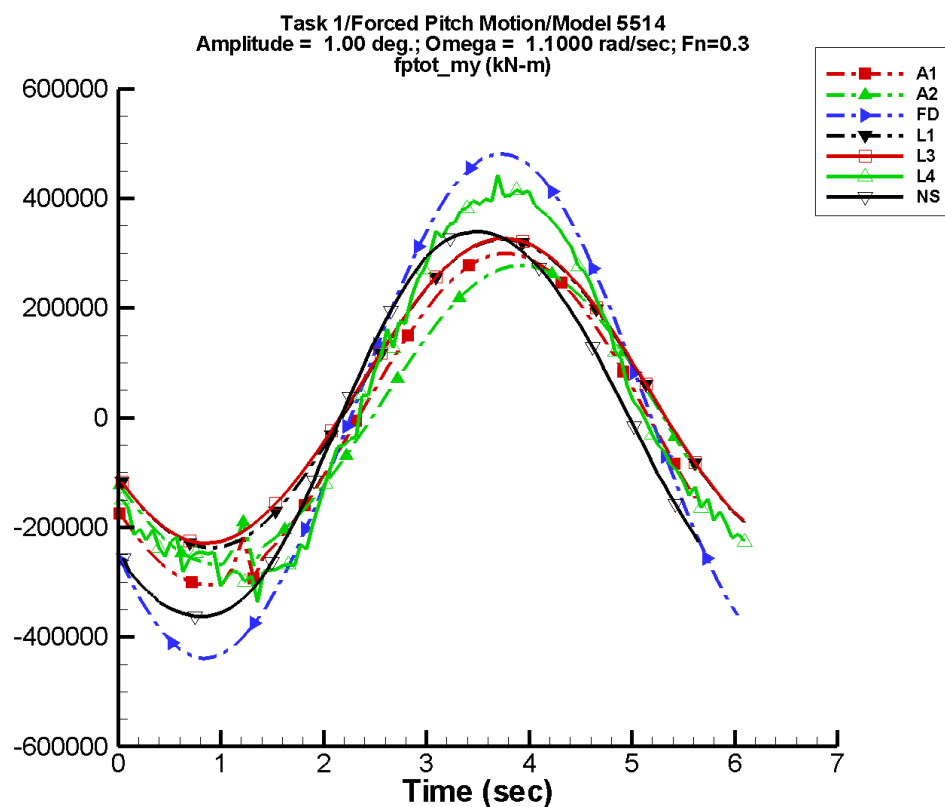
Table F–229. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	895.	1.98E+06	-165	797.	111
A2	9.89E+04	1.77E+06	-165	8.41E+04	-96
FD	1.24E+05	2.48E+06	-166	9.10E+04	-88
L1	4.65E+04	2.23E+06	-171	9.67E+03	130
L3	1.56E+05	2.01E+06	-170	8.92E+04	-99
L4	1.12E+05	2.04E+06	-170	7.21E+04	-51
NF	2.79E+04	1.93E+06	-154	5.32E+04	-24
NS	1.44E+05	1.86E+06	-167	1.36E+05	-58

Table F–230. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.04E+06	1.98E+06	-1.97E+06	1.97E+06
A2	-1.64E+06	1.92E+06	-1.58E+06	1.90E+06
FD	-2.26E+06	2.64E+06	-2.25E+06	2.63E+06
L1	-2.19E+06	2.26E+06	-2.19E+06	2.26E+06
L3	-1.75E+06	2.18E+06	-1.75E+06	2.18E+06
L4	-1.86E+06	2.19E+06	-1.83E+06	2.17E+06
NF	-1.85E+06	2.03E+06	-1.84E+06	2.02E+06
NS	-1.58E+06	2.13E+06	-1.57E+06	2.12E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-116. Time history of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

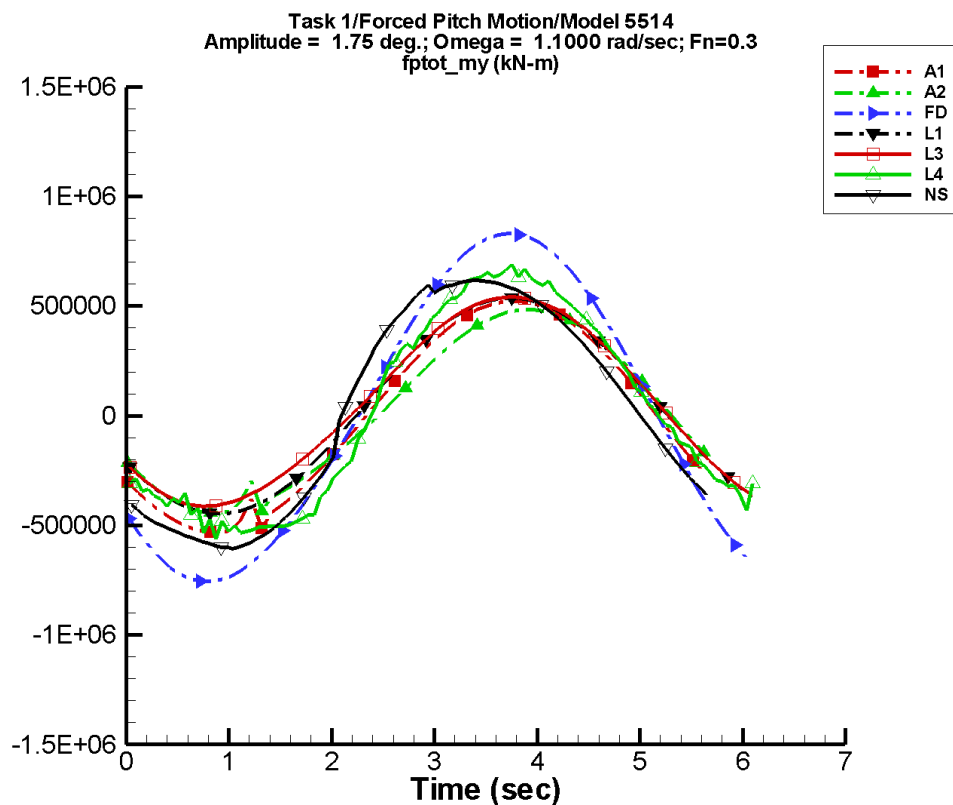
Table F–231. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.77E+03	2.99E+05	-147	4.79E+03	-65
A2	3.43E+03	2.68E+05	-155	9.04E+03	-85
FD	2.02E+04	4.59E+05	-145	4.06E+03	-90
L1	4.47E+04	2.81E+05	-147	1.16E+03	90
L3	4.89E+04	2.77E+05	-146	3.07E+03	-101
L4	3.17E+04	3.57E+05	-147	4.63E+04	9
NF	—	—	—	—	—
NS	-1.20E+04	3.56E+05	-136	1.64E+04	96

Table F–232. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.26E+05	3.00E+05	-2.90E+05	2.90E+05
A2	-2.83E+05	2.78E+05	-2.56E+05	2.69E+05
FD	-4.39E+05	4.81E+05	-4.24E+05	4.67E+05
L1	-2.37E+05	3.25E+05	-2.33E+05	3.22E+05
L3	-2.29E+05	3.27E+05	-2.26E+05	3.24E+05
L4	-3.40E+05	4.42E+05	-2.93E+05	4.09E+05
NF	—	—	—	—
NS	-3.69E+05	3.40E+05	-3.65E+05	3.36E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-117. Time history of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–233. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.08E+03	5.21E+05	-147	8.34E+03	-65
A2	1.46E+04	4.55E+05	-154	2.61E+04	-93
FD	3.24E+04	7.91E+05	-144	1.99E+04	-90
L1	4.68E+04	4.92E+05	-147	3.45E+03	89
L3	6.33E+04	4.72E+05	-145	1.69E+04	-99
L4	3.00E+04	5.97E+05	-150	8.12E+04	25
NF	—	—	—	—	—
NS	1.19E+04	6.28E+05	-135	7.50E+04	88

Table F–234. Minimum and maximum of M_y^{ptot} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.69E+05	5.22E+05	-5.05E+05	5.06E+05
A2	-4.82E+05	4.84E+05	-4.18E+05	4.69E+05
FD	-7.57E+05	8.30E+05	-7.33E+05	8.05E+05
L1	-4.46E+05	5.37E+05	-4.41E+05	5.32E+05
L3	-4.13E+05	5.41E+05	-4.07E+05	5.36E+05
L4	-5.62E+05	6.90E+05	-5.19E+05	6.51E+05
NF	—	—	—	—
NS	-6.17E+05	6.20E+05	-6.02E+05	6.12E+05

TASK 1/PITCH MOTION/MODEL 5514

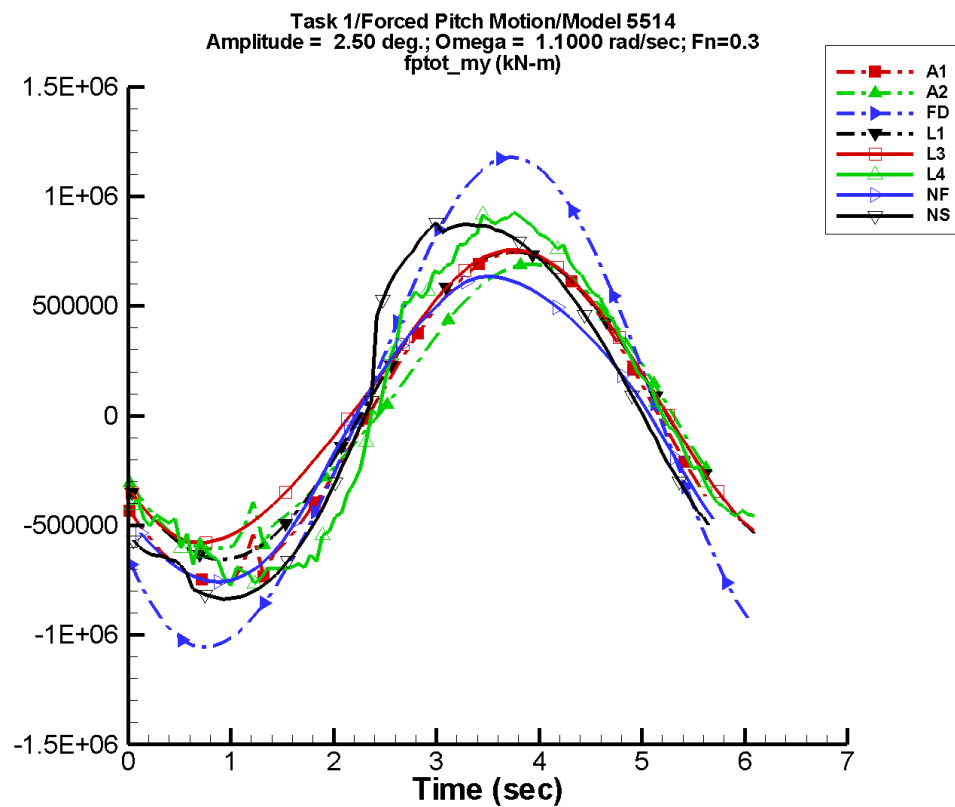


Figure F-118. Time history of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–235. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.41E+03	7.45E+05	-147	1.19E+04	-65
A2	3.12E+04	6.37E+05	-153	4.68E+04	-95
FD	5.23E+04	1.11E+06	-143	4.26E+04	-90
L1	5.01E+04	7.02E+05	-147	7.03E+03	89
L3	8.63E+04	6.58E+05	-144	3.61E+04	-99
L4	4.17E+04	8.29E+05	-150	1.26E+05	30
NF	-3.85E+04	6.97E+05	-135	4.27E+04	139
NS	6.17E+03	8.80E+05	-137	1.27E+05	70

Table F–236. Minimum and maximum of M_y^{ptot} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.13E+05	7.46E+05	-7.22E+05	7.23E+05
A2	-6.67E+05	6.92E+05	-5.74E+05	6.71E+05
FD	-1.06E+06	1.18E+06	-1.02E+06	1.14E+06
L1	-6.55E+05	7.50E+05	-6.47E+05	7.42E+05
L3	-5.79E+05	7.55E+05	-5.72E+05	7.48E+05
L4	-7.77E+05	9.29E+05	-7.31E+05	8.97E+05
NF	-7.59E+05	6.36E+05	-7.26E+05	5.98E+05
NS	-8.59E+05	8.92E+05	-8.51E+05	8.74E+05

TASK 1/PITCH MOTION/MODEL 5514

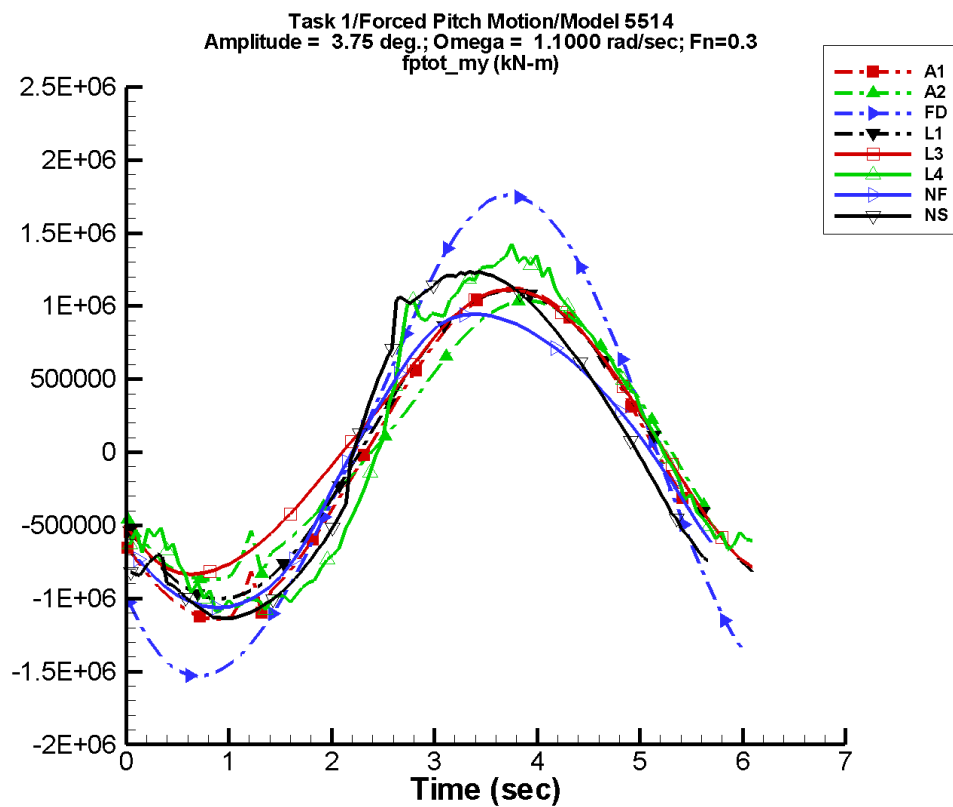


Figure F-119. Time history of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Table F–237. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.61E+03	1.12E+06	-147	1.79E+04	-65
A2	6.35E+04	9.31E+05	-152	8.26E+04	-96
FD	9.38E+04	1.63E+06	-142	8.40E+04	-90
L1	5.81E+04	1.05E+06	-147	1.58E+04	88
L3	1.35E+05	9.56E+05	-142	6.85E+04	-99
L4	7.47E+04	1.21E+06	-151	2.02E+05	31
NF	-2.87E+04	1.01E+06	-136	9.39E+04	115
NS	-1.88E+03	1.20E+06	-137	1.97E+05	61

Table F–238. Minimum and maximum of M_y^{ptot} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.22E+06	1.12E+06	-1.08E+06	1.09E+06
A2	-9.63E+05	1.04E+06	-8.23E+05	1.00E+06
FD	-1.53E+06	1.76E+06	-1.48E+06	1.71E+06
L1	-1.00E+06	1.11E+06	-9.90E+05	1.09E+06
L3	-8.33E+05	1.11E+06	-8.24E+05	1.10E+06
L4	-1.12E+06	1.42E+06	-1.06E+06	1.33E+06
NF	-1.06E+06	9.43E+05	-1.02E+06	9.01E+05
NS	-1.17E+06	1.24E+06	-1.15E+06	1.23E+06

TASK 1/PITCH MOTION/MODEL 5514

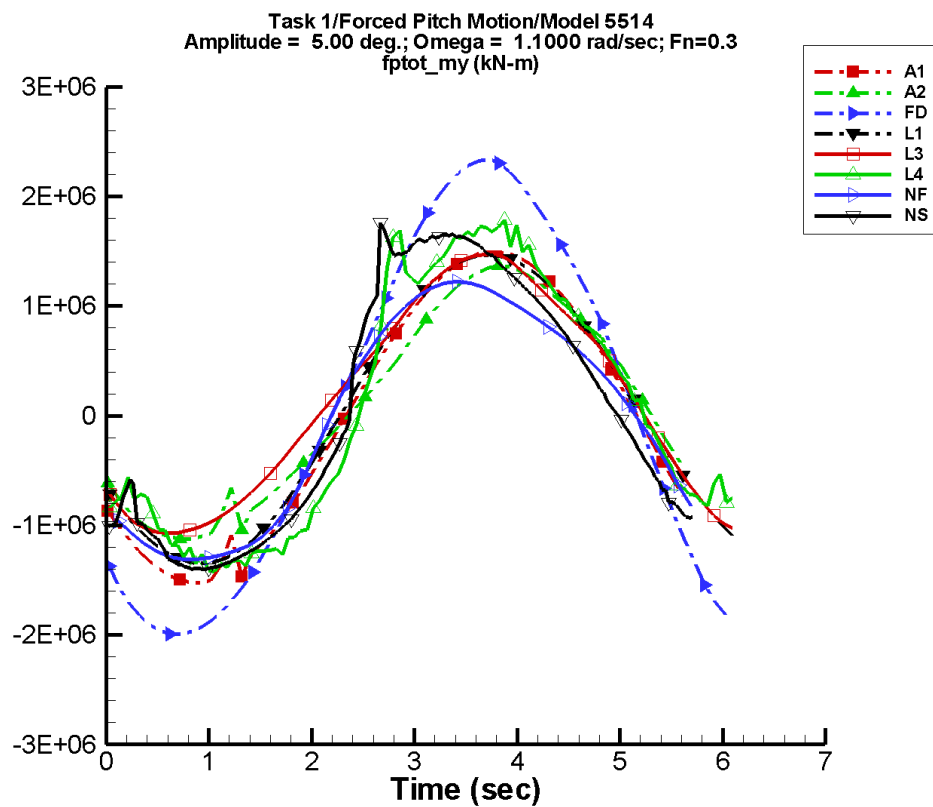


Figure F-120. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

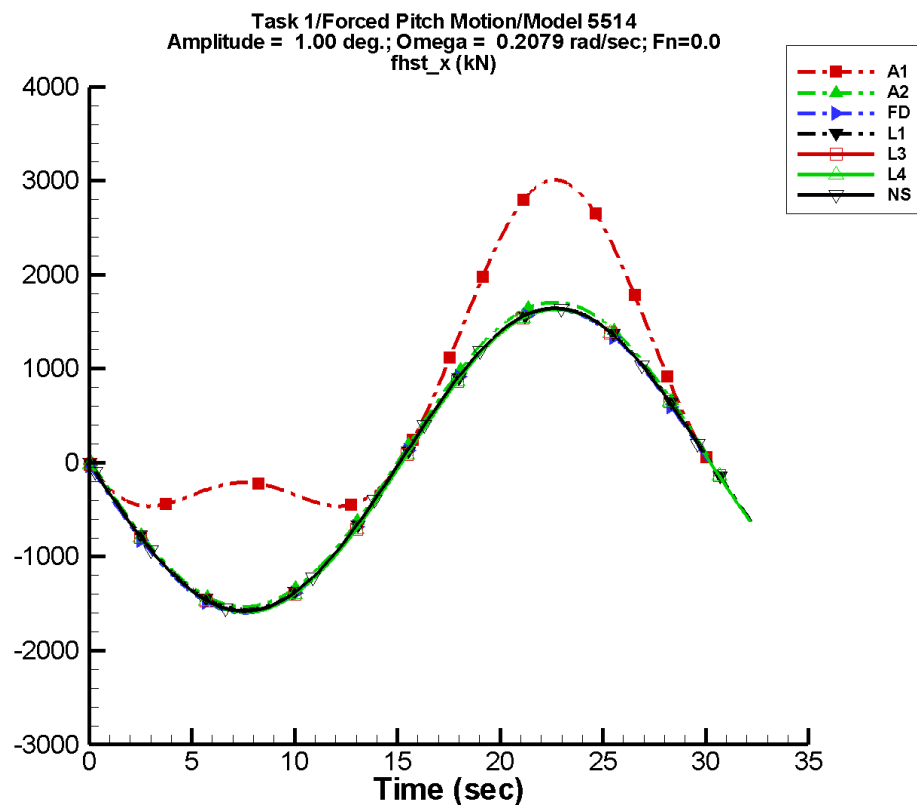
Table F–239. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.83E+03	1.49E+06	-147	2.39E+04	-65
A2	8.86E+04	1.20E+06	-150	1.03E+05	-95
FD	1.23E+05	2.13E+06	-141	1.01E+05	-90
L1	6.93E+04	1.40E+06	-147	2.82E+04	88
L3	1.78E+05	1.23E+06	-140	7.59E+04	-100
L4	9.35E+04	1.56E+06	-150	2.79E+05	34
NF	-3.22E+04	1.30E+06	-136	1.24E+05	112
NS	2.03E+04	1.52E+06	-137	3.00E+05	54

Table F–240. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.63E+06	1.49E+06	-1.44E+06	1.45E+06
A2	-1.26E+06	1.37E+06	-1.06E+06	1.31E+06
FD	-1.99E+06	2.34E+06	-1.94E+06	2.24E+06
L1	-1.35E+06	1.46E+06	-1.33E+06	1.45E+06
L3	-1.07E+06	1.47E+06	-1.06E+06	1.45E+06
L4	-1.44E+06	1.78E+06	-1.38E+06	1.70E+06
NF	-1.33E+06	1.22E+06	-1.29E+06	1.15E+06
NS	-1.44E+06	1.76E+06	-1.43E+06	1.64E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-121. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

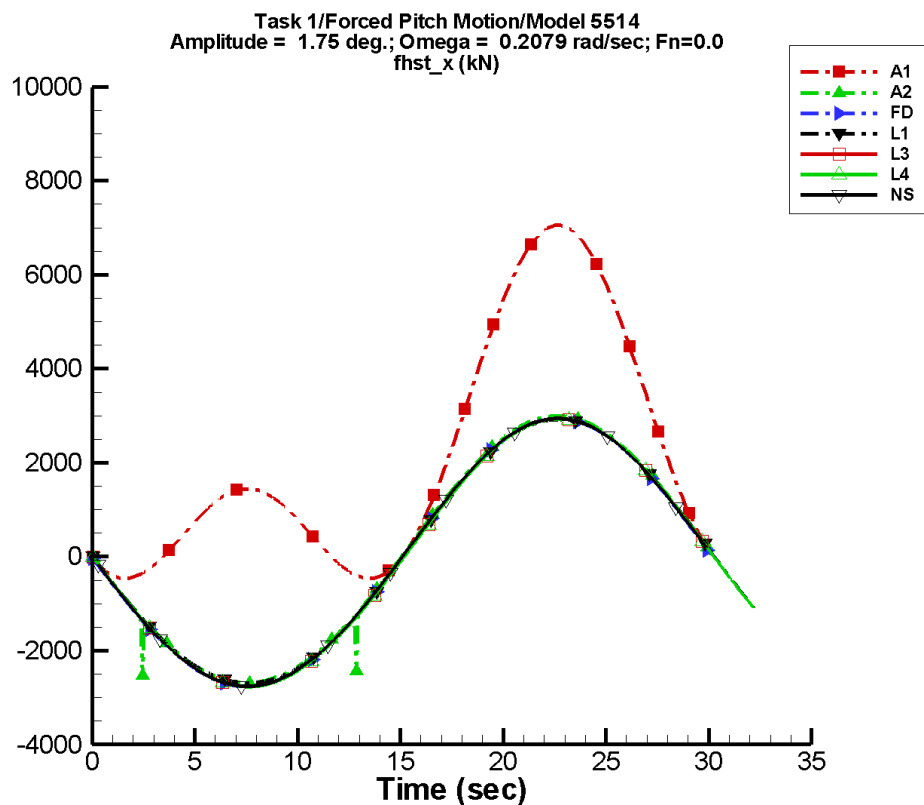
Table F-241. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	63.5	1.62E+03	180	22.4	-90
FD	-2.14	1.61E+03	180	19.1	-90
L1	—	—	—	—	—
L3	2.69	1.61E+03	179	18.2	-91
L4	2.69	1.61E+03	179	18.2	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-242. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.53E+03	1.70E+03	-1.53E+03	1.70E+03
FD	-1.60E+03	1.63E+03	-1.59E+03	1.63E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
L4	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-122. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

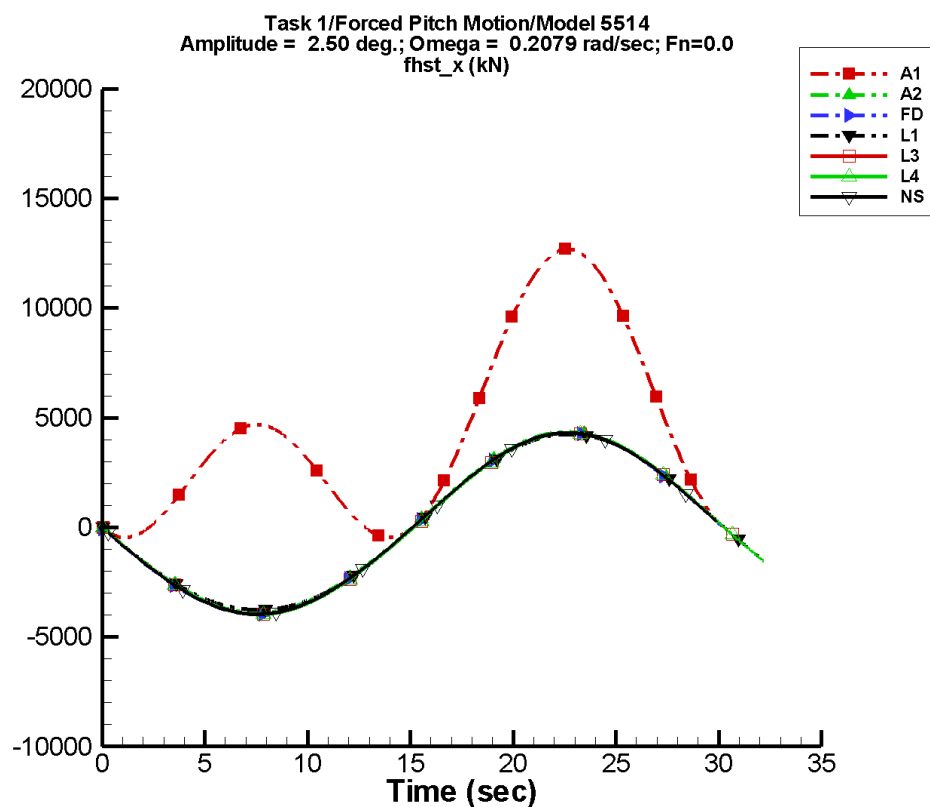
Table F-243. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	93.0	2.84E+03	180	67.3	-92
FD	33.6	2.84E+03	180	51.4	-91
L1	—	—	—	—	—
L3	37.5	2.84E+03	179	48.0	-91
L4	37.5	2.84E+03	179	48.0	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-244. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.69E+03	2.99E+03
FD	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.76E+03	2.94E+03
L4	-2.77E+03	2.94E+03	-2.76E+03	2.94E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-123. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

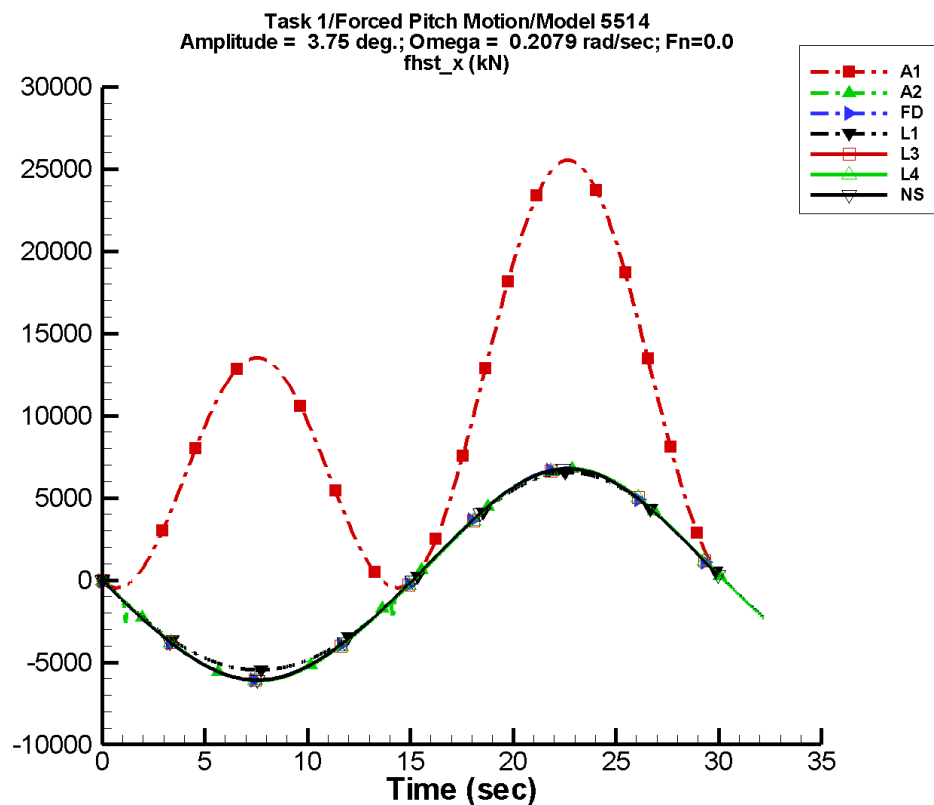
Table F–245. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	144.	4.10E+03	180	85.4	-88
FD	82.5	4.11E+03	180	92.7	-92
L1	—	—	—	—	—
L3	85.2	4.11E+03	179	85.2	-91
L4	85.2	4.11E+03	179	85.2	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–246. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.91E+03	4.35E+03
FD	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.97E+03	4.31E+03
L4	-3.97E+03	4.31E+03	-3.97E+03	4.31E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-124. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

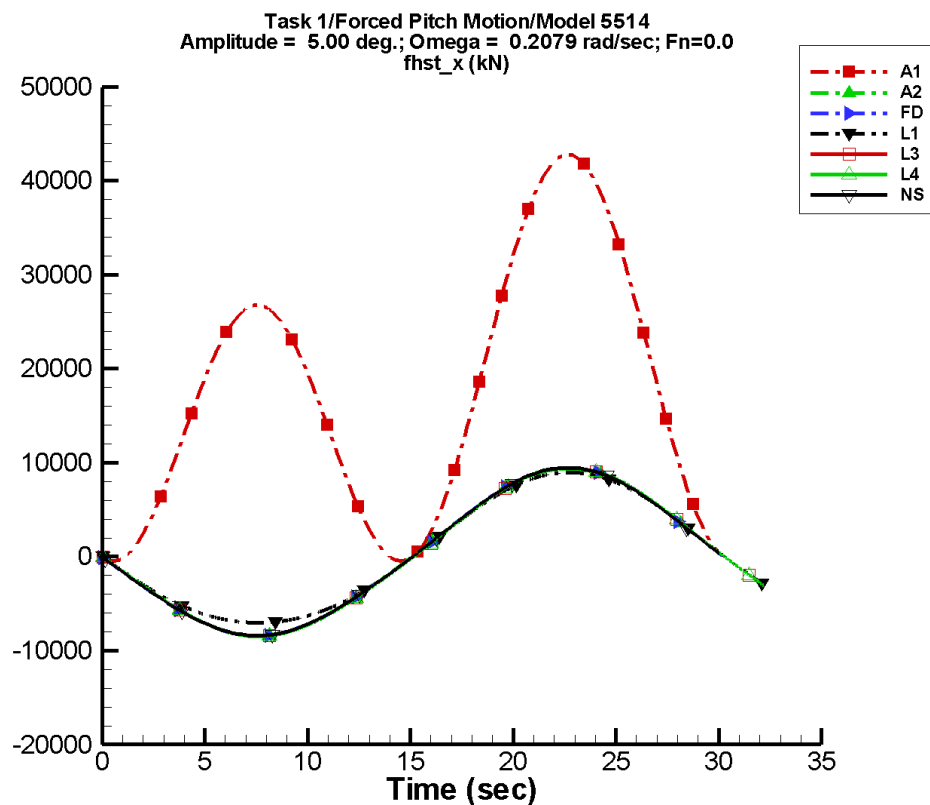
Table F-247. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	214.	6.34E+03	180	145.	-86
FD	185.	6.34E+03	180	172.	-93
L1	—	—	—	—	—
L3	185.	6.34E+03	179	151.	-91
L4	185.	6.34E+03	179	151.	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-248. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.79E+03	-6.08E+03	6.78E+03
FD	-6.09E+03	6.80E+03	-6.08E+03	6.79E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.10E+03	6.79E+03
L4	-6.10E+03	6.79E+03	-6.10E+03	6.79E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-125. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

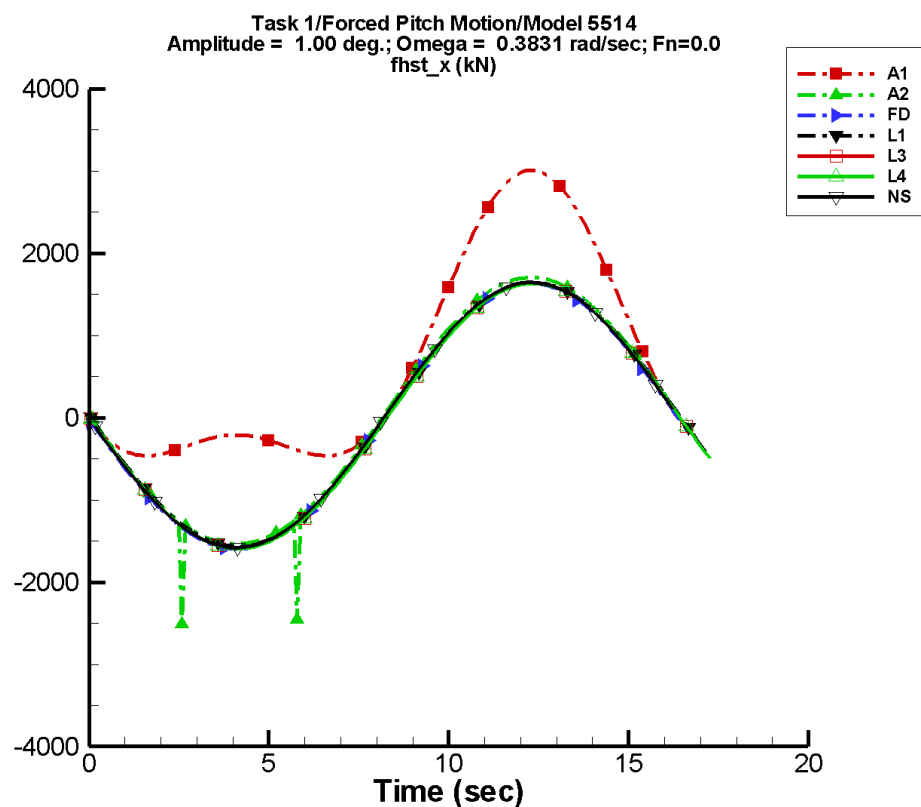
Table F–249. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	307.	8.73E+03	180	179.	-80
FD	287.	8.73E+03	180	223.	-94
L1	—	—	—	—	—
L3	285.	8.73E+03	179	182.	-91
L4	285.	8.73E+03	179	182.	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–250. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.48E+03	9.38E+03	-8.47E+03	9.36E+03
FD	-8.44E+03	9.38E+03	-8.43E+03	9.36E+03
L1	—	—	—	—
L3	-8.47E+03	9.37E+03	-8.47E+03	9.36E+03
L4	-8.47E+03	9.37E+03	-8.47E+03	9.36E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-126. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

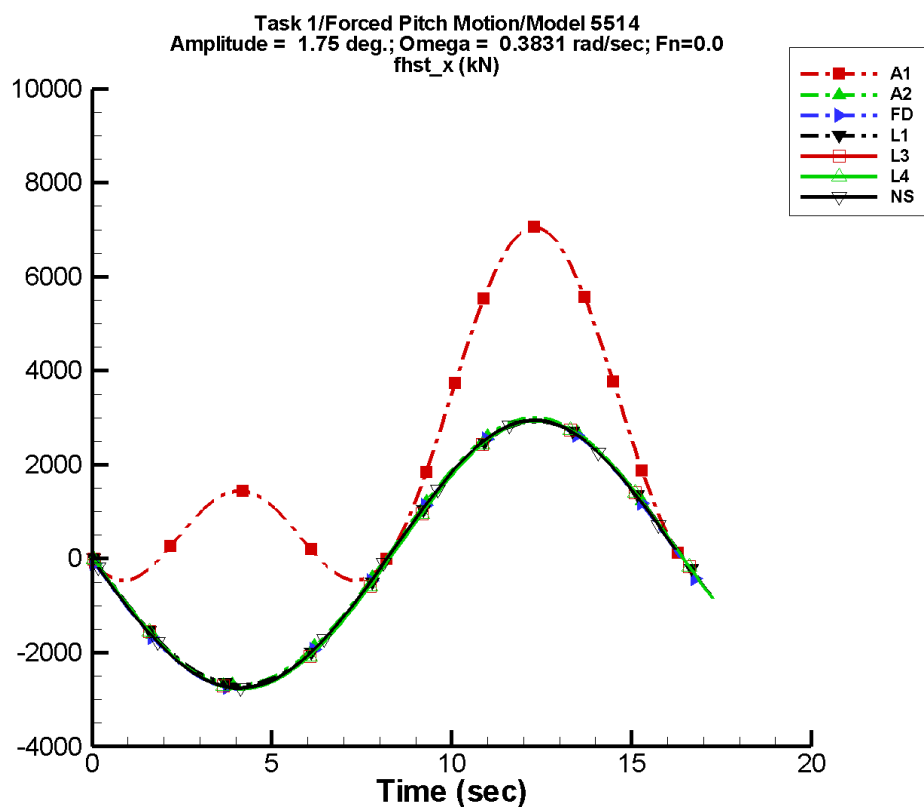
Table F–251. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	48.9	1.64E+03	180	12.3	-106
FD	-2.13	1.61E+03	180	19.1	-90
L1	—	—	—	—	—
L3	2.67	1.61E+03	179	18.6	-92
L4	2.67	1.61E+03	179	18.6	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–252. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.51E+03	1.70E+03	-1.54E+03	1.70E+03
FD	-1.60E+03	1.63E+03	-1.59E+03	1.62E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
L4	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-127. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

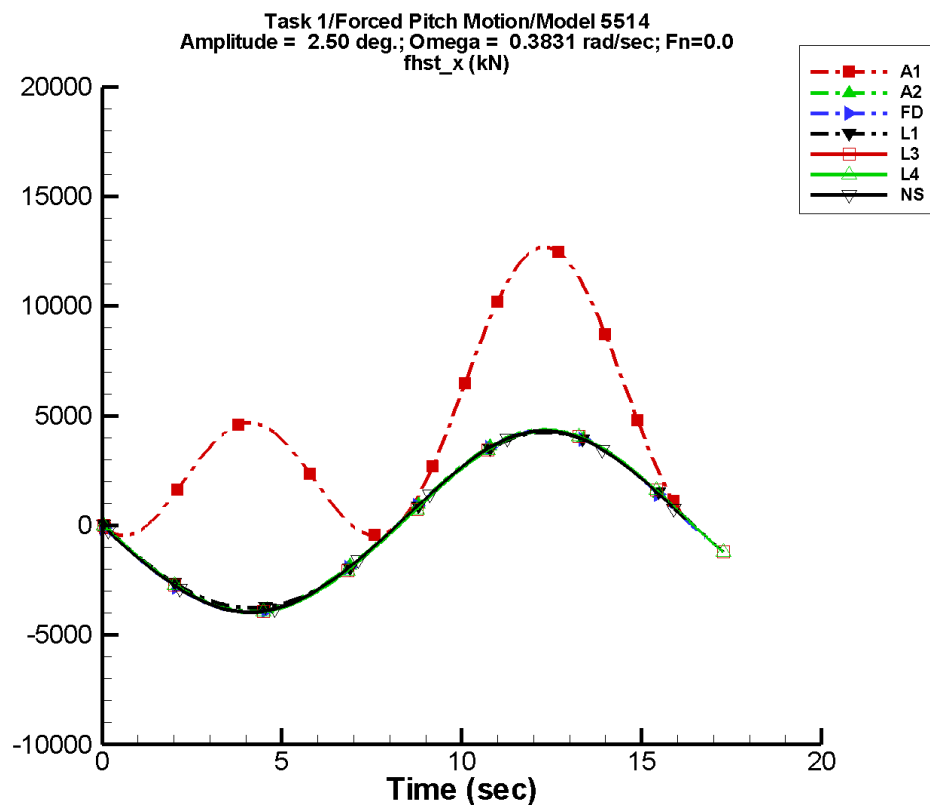
Table F–253. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	101.	2.83E+03	180	55.9	-91
FD	33.7	2.84E+03	180	52.0	-91
L1	—	—	—	—	—
L3	37.4	2.84E+03	179	50.4	-91
L4	37.4	2.84E+03	179	50.4	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–254. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.69E+03	2.98E+03
FD	-2.77E+03	2.94E+03	-2.76E+03	2.92E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
L4	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-128. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

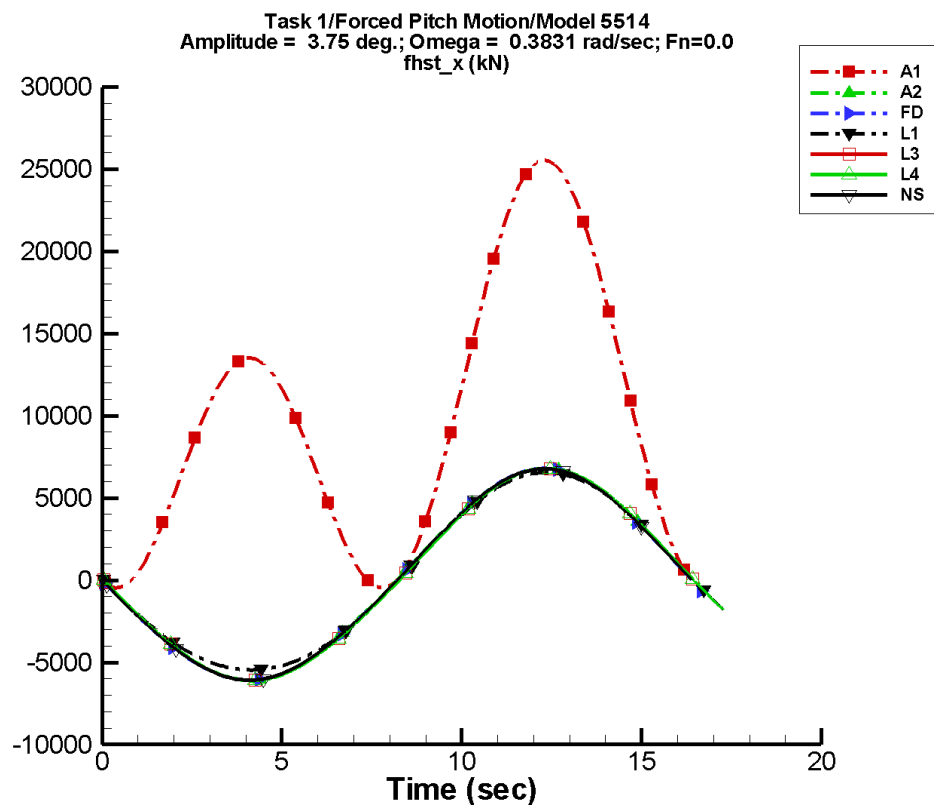
Table F–255. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	144.	4.10E+03	180	85.0	-89
FD	82.8	4.11E+03	180	94.6	-91
L1	—	—	—	—	—
L3	85.0	4.11E+03	179	91.9	-90
L4	85.0	4.11E+03	179	91.9	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–256. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.92E+03	4.34E+03
FD	-3.97E+03	4.31E+03	-3.95E+03	4.30E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
L4	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-129. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

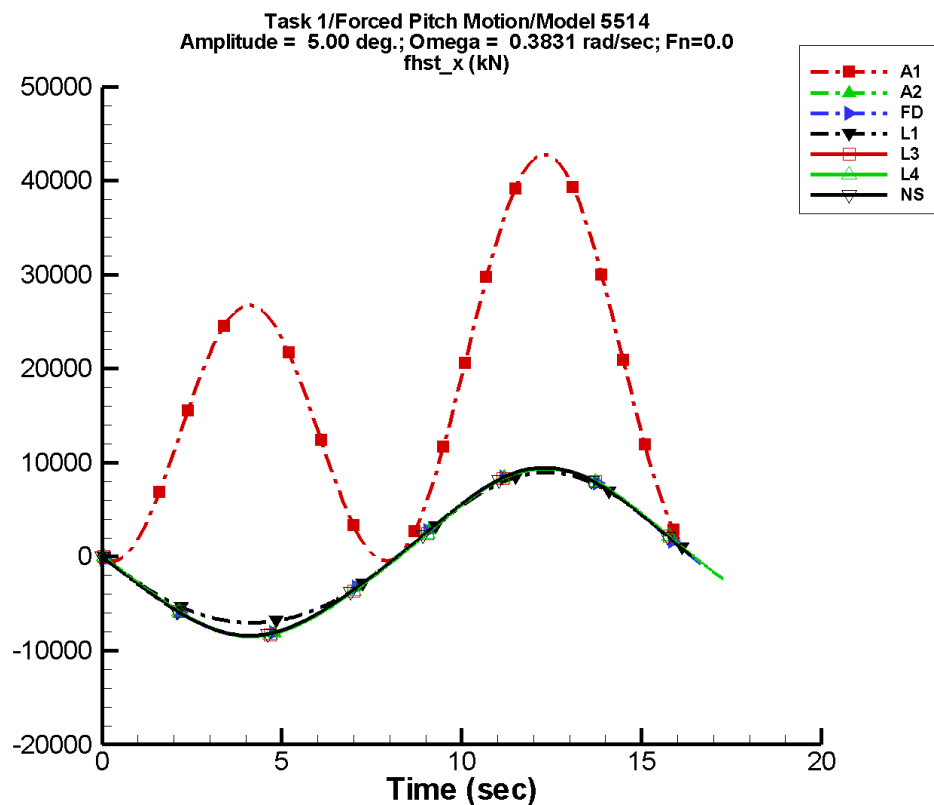
Table F–257. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	220.	6.33E+03	180	132.	-86
FD	186.	6.34E+03	180	178.	-92
L1	—	—	—	—	—
L3	185.	6.33E+03	179	172.	-89
L4	185.	6.33E+03	179	172.	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–258. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.79E+03	-6.09E+03	6.76E+03
FD	-6.09E+03	6.80E+03	-6.06E+03	6.77E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.09E+03	6.78E+03
L4	-6.10E+03	6.79E+03	-6.09E+03	6.78E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-130. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

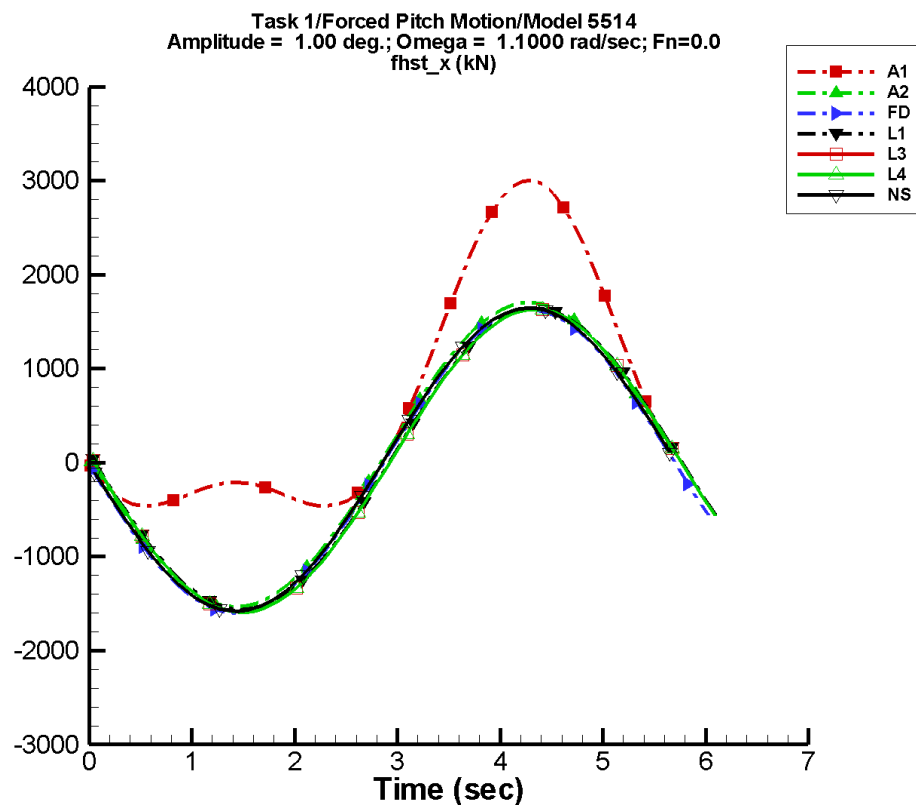
Table F–259. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	302.	8.74E+03	180	173.	-83
FD	290.	8.74E+03	180	233.	-94
L1	—	—	—	—	—
L3	283.	8.72E+03	179	228.	-87
L4	283.	8.72E+03	179	228.	-87
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–260. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.48E+03	9.38E+03	-8.49E+03	9.33E+03
FD	-8.44E+03	9.37E+03	-8.41E+03	9.34E+03
L1	—	—	—	—
L3	-8.47E+03	9.37E+03	-8.46E+03	9.35E+03
L4	-8.47E+03	9.37E+03	-8.46E+03	9.35E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-131. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

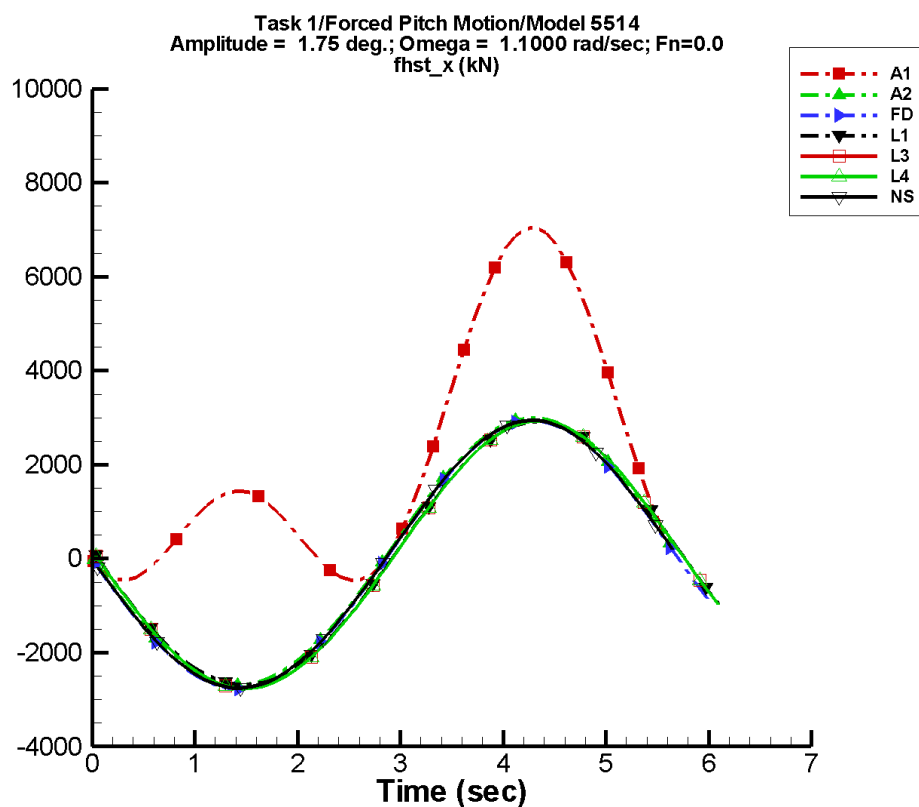
Table F–261. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	63.3	1.62E+03	180	22.5	-96
FD	-2.12	1.61E+03	180	18.9	-90
L1	—	—	—	—	—
L3	2.56	1.61E+03	176	18.2	-98
L4	2.56	1.61E+03	176	18.2	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–262. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.53E+03	1.70E+03	-1.50E+03	1.65E+03
FD	-1.60E+03	1.63E+03	-1.55E+03	1.58E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.57E+03	1.61E+03
L4	-1.59E+03	1.63E+03	-1.57E+03	1.61E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-132. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

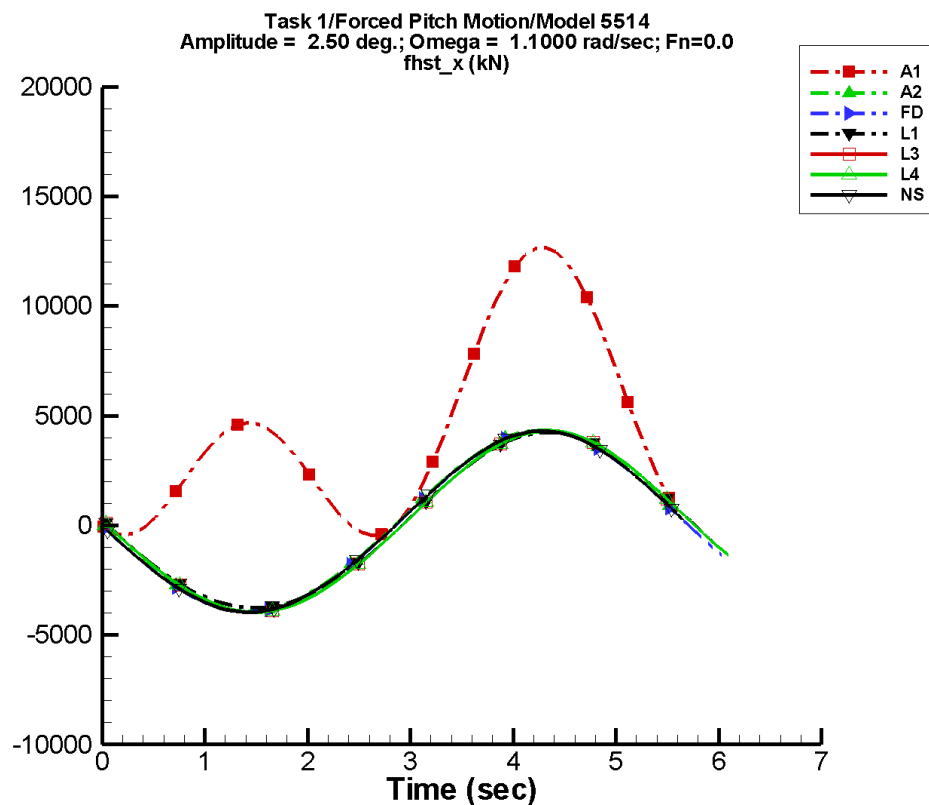
Table F-263. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	101.	2.83E+03	180	56.5	-95
FD	33.6	2.84E+03	180	50.4	-90
L1	—	—	—	—	—
L3	37.2	2.84E+03	176	48.1	-98
L4	37.2	2.84E+03	176	48.1	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-264. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.62E+03	2.90E+03
FD	-2.77E+03	2.93E+03	-2.68E+03	2.84E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.73E+03	2.90E+03
L4	-2.77E+03	2.94E+03	-2.73E+03	2.90E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-133. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

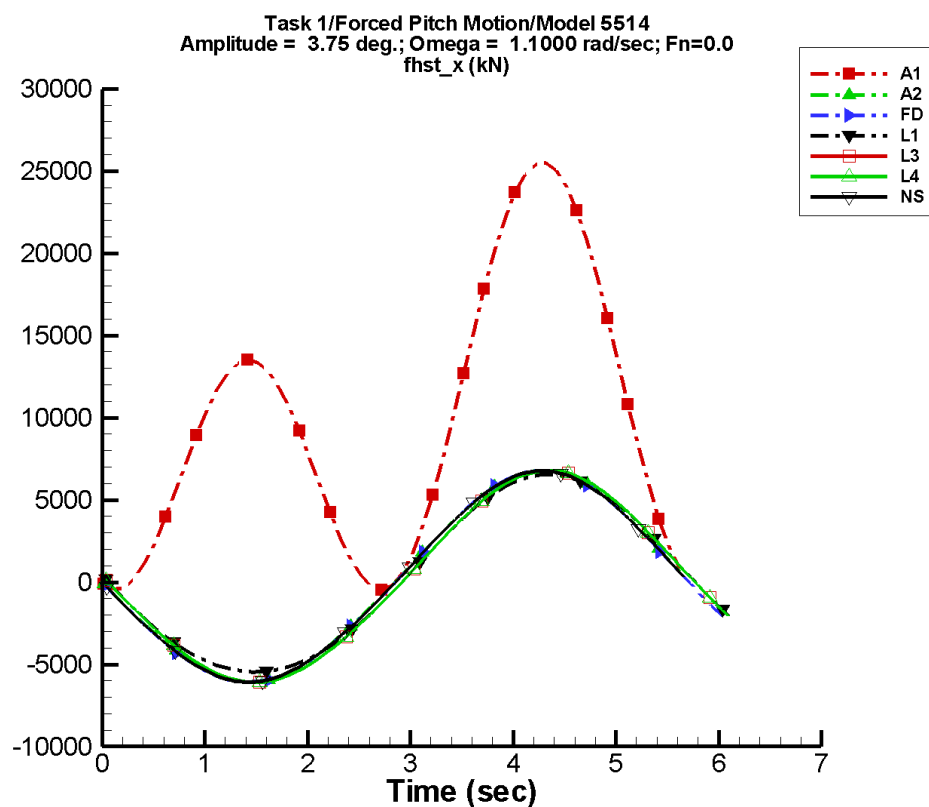
Table F–265. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	143.	4.10E+03	180	87.5	-92
FD	82.7	4.11E+03	180	89.7	-90
L1	—	—	—	—	—
L3	84.8	4.11E+03	176	85.3	-98
L4	84.8	4.11E+03	176	85.3	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–266. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.80E+03	4.21E+03
FD	-3.97E+03	4.31E+03	-3.84E+03	4.16E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.92E+03	4.26E+03
L4	-3.97E+03	4.31E+03	-3.92E+03	4.26E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-134. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

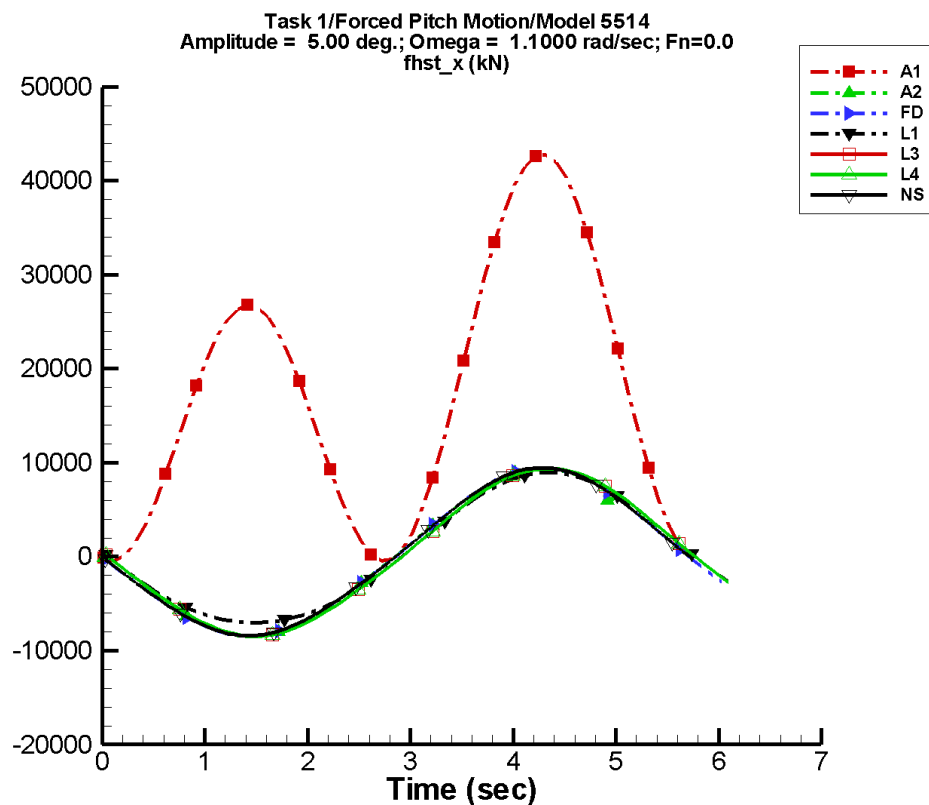
Table F-267. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	220.	6.33E+03	180	138.	-89
FD	186.	6.34E+03	180	162.	-91
L1	—	—	—	—	—
L3	185.	6.34E+03	176	150.	-97
L4	185.	6.34E+03	176	150.	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-268. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.78E+03	-5.90E+03	6.55E+03
FD	-6.09E+03	6.79E+03	-5.88E+03	6.55E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.02E+03	6.70E+03
L4	-6.10E+03	6.79E+03	-6.02E+03	6.70E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-135. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

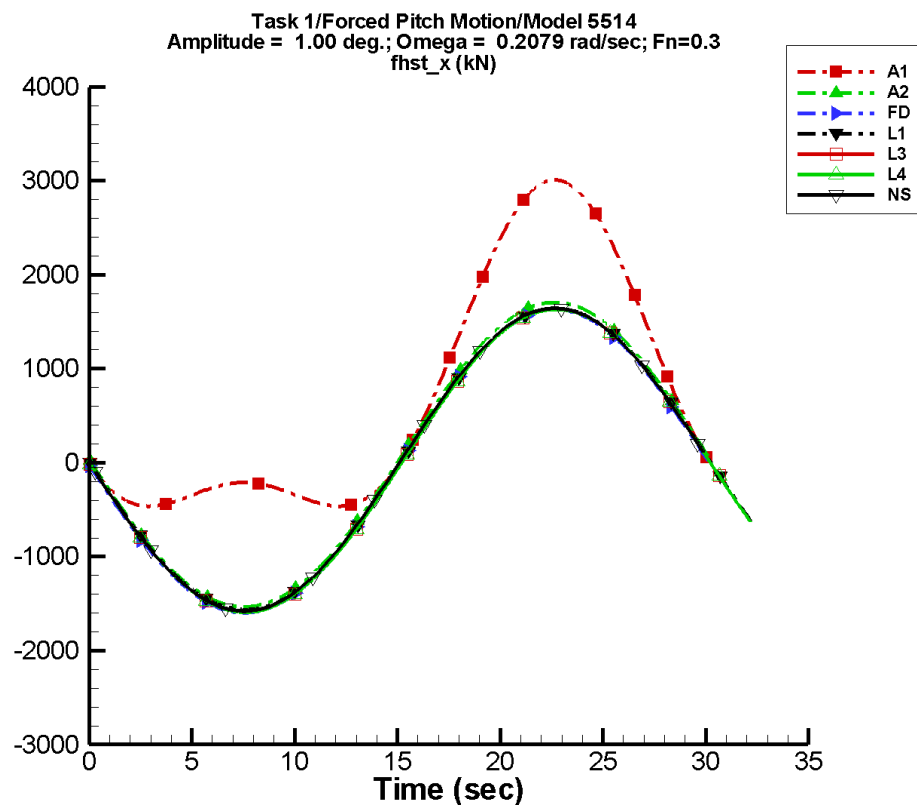
Table F-269. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	283.	8.70E+03	180	183.	-74
FD	288.	8.72E+03	180	202.	-91
L1	—	—	—	—	—
L3	284.	8.73E+03	176	183.	-97
L4	284.	8.73E+03	176	183.	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-270. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.47E+03	9.38E+03	-8.16E+03	9.04E+03
FD	-8.44E+03	9.36E+03	-8.13E+03	9.07E+03
L1	—	—	—	—
L3	-8.47E+03	9.36E+03	-8.35E+03	9.26E+03
L4	-8.47E+03	9.36E+03	-8.35E+03	9.26E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-136. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

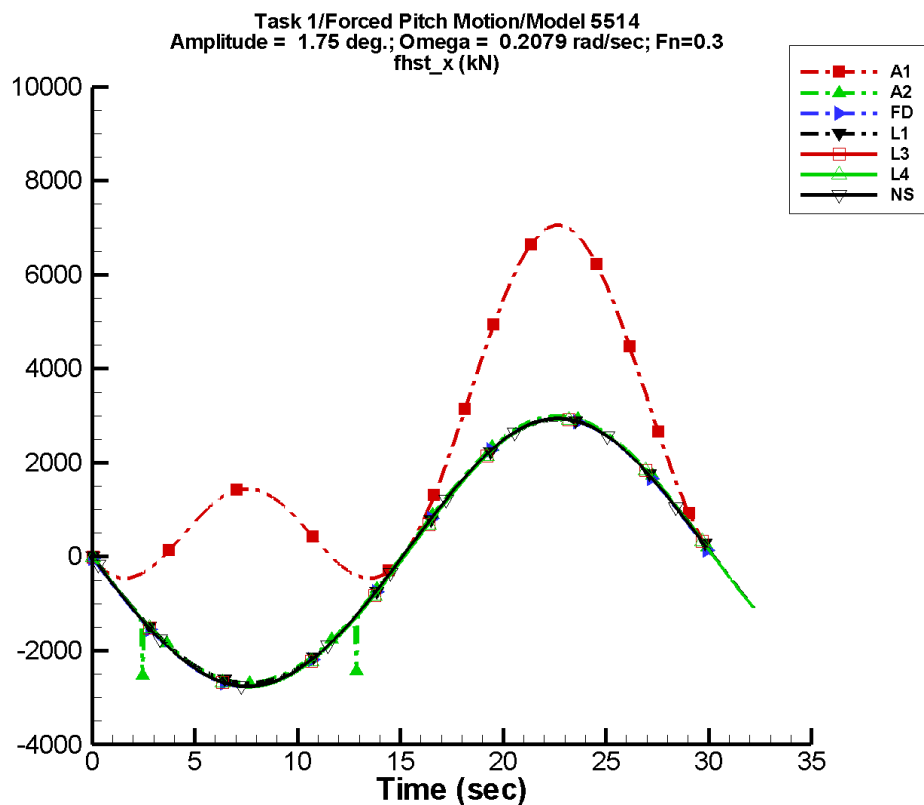
Table F-271. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	63.5	1.62E+03	180	22.4	-91
FD	-2.14	1.61E+03	180	19.1	-90
L1	—	—	—	—	—
L3	2.69	1.61E+03	179	18.2	-91
L4	2.69	1.61E+03	179	18.2	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-272. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.53E+03	1.70E+03	-1.53E+03	1.70E+03
FD	-1.60E+03	1.63E+03	-1.59E+03	1.63E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
L4	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-137. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

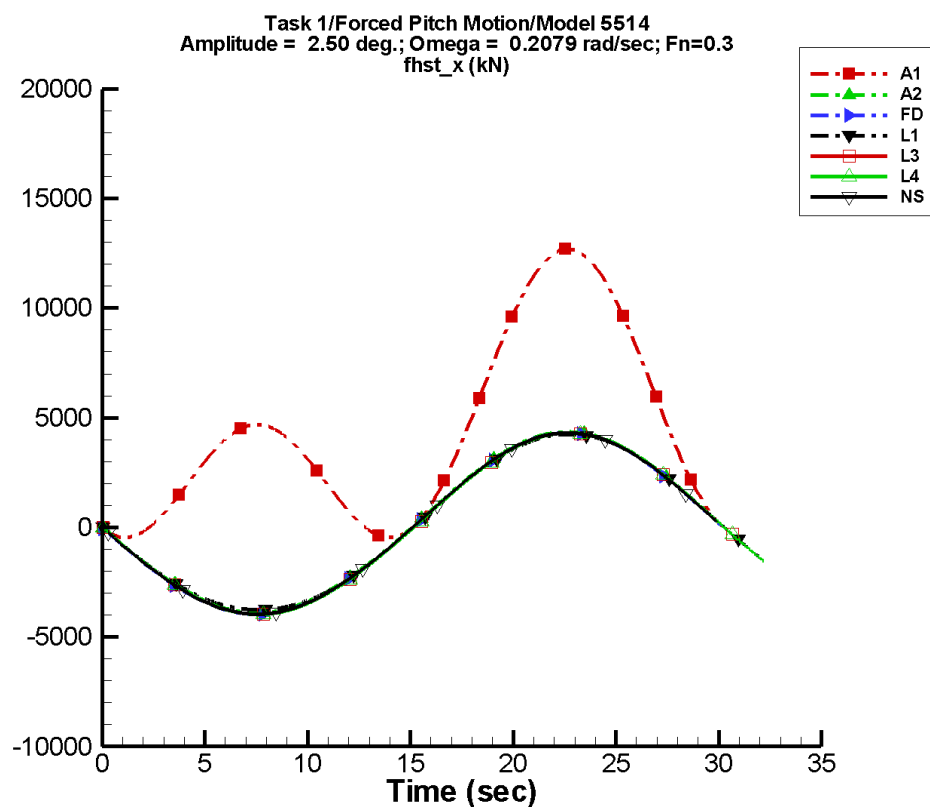
Table F-273. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	93.0	2.84E+03	180	67.3	-92
FD	33.6	2.84E+03	180	51.4	-91
L1	—	—	—	—	—
L3	37.5	2.84E+03	179	48.0	-91
L4	37.5	2.84E+03	179	48.0	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-274. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.69E+03	2.99E+03
FD	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.76E+03	2.94E+03
L4	-2.77E+03	2.94E+03	-2.76E+03	2.94E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-138. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

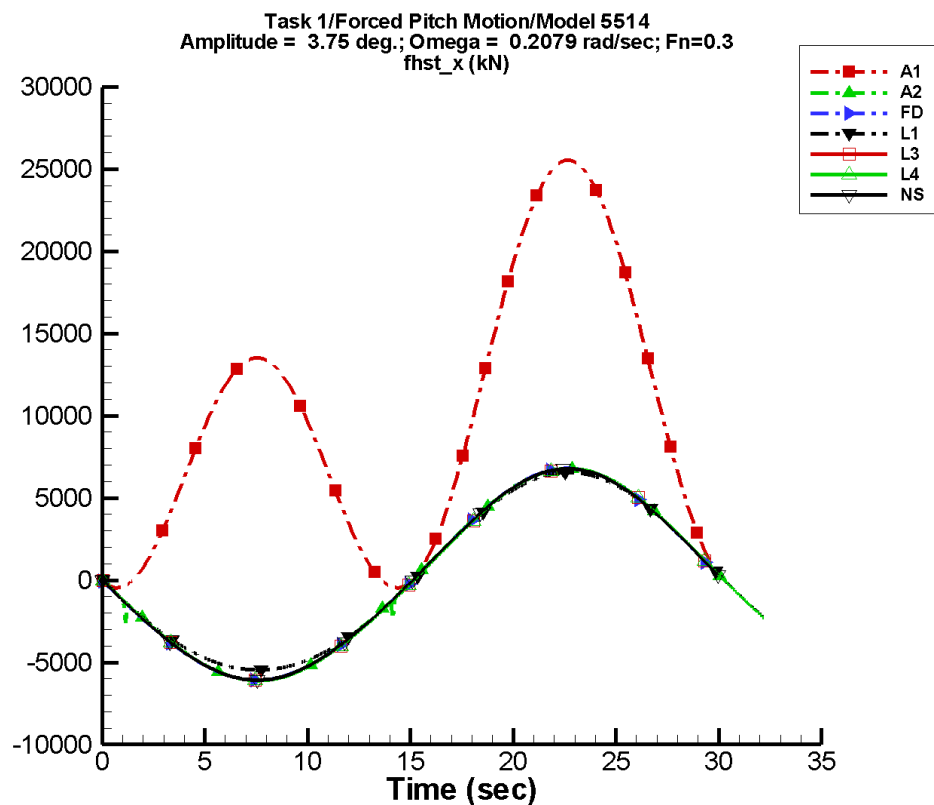
Table F–275. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	144.	4.10E+03	180	85.4	-88
FD	82.5	4.11E+03	180	92.7	-92
L1	—	—	—	—	—
L3	85.2	4.11E+03	179	85.2	-91
L4	85.2	4.11E+03	179	85.2	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–276. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.91E+03	4.35E+03
FD	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.97E+03	4.31E+03
L4	-3.97E+03	4.31E+03	-3.97E+03	4.31E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-139. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

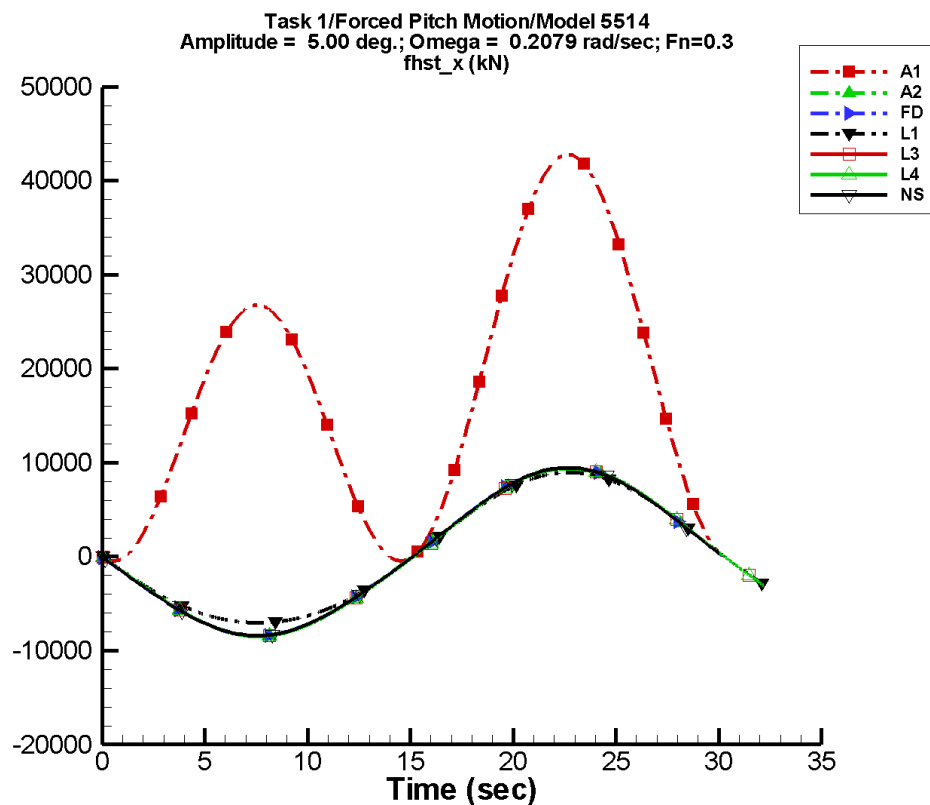
Table F-277. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	214.	6.34E+03	180	145.	-86
FD	185.	6.34E+03	180	172.	-93
L1	—	—	—	—	—
L3	185.	6.34E+03	179	151.	-91
L4	185.	6.34E+03	179	151.	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-278. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.79E+03	-6.08E+03	6.78E+03
FD	-6.09E+03	6.80E+03	-6.08E+03	6.79E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.10E+03	6.79E+03
L4	-6.10E+03	6.79E+03	-6.10E+03	6.79E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-140. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

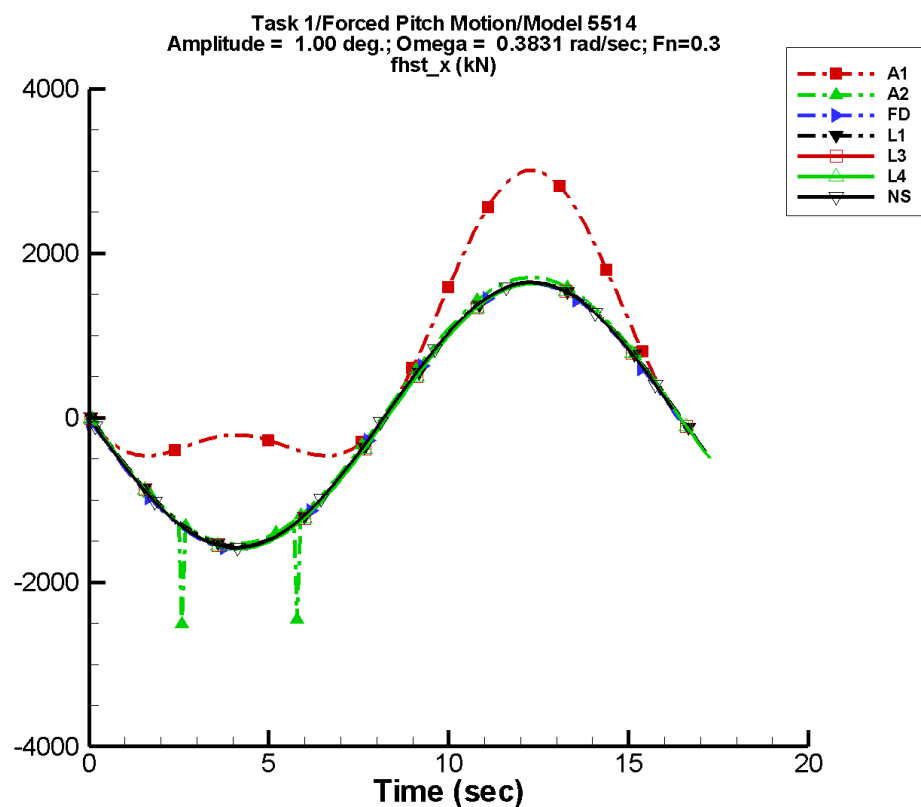
Table F–279. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	307.	8.73E+03	180	179.	-80
FD	287.	8.73E+03	180	223.	-94
L1	—	—	—	—	—
L3	285.	8.73E+03	179	182.	-91
L4	285.	8.73E+03	179	182.	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–280. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.48E+03	9.38E+03	-8.47E+03	9.36E+03
FD	-8.44E+03	9.38E+03	-8.43E+03	9.36E+03
L1	—	—	—	—
L3	-8.47E+03	9.37E+03	-8.47E+03	9.36E+03
L4	-8.47E+03	9.37E+03	-8.47E+03	9.36E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-141. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

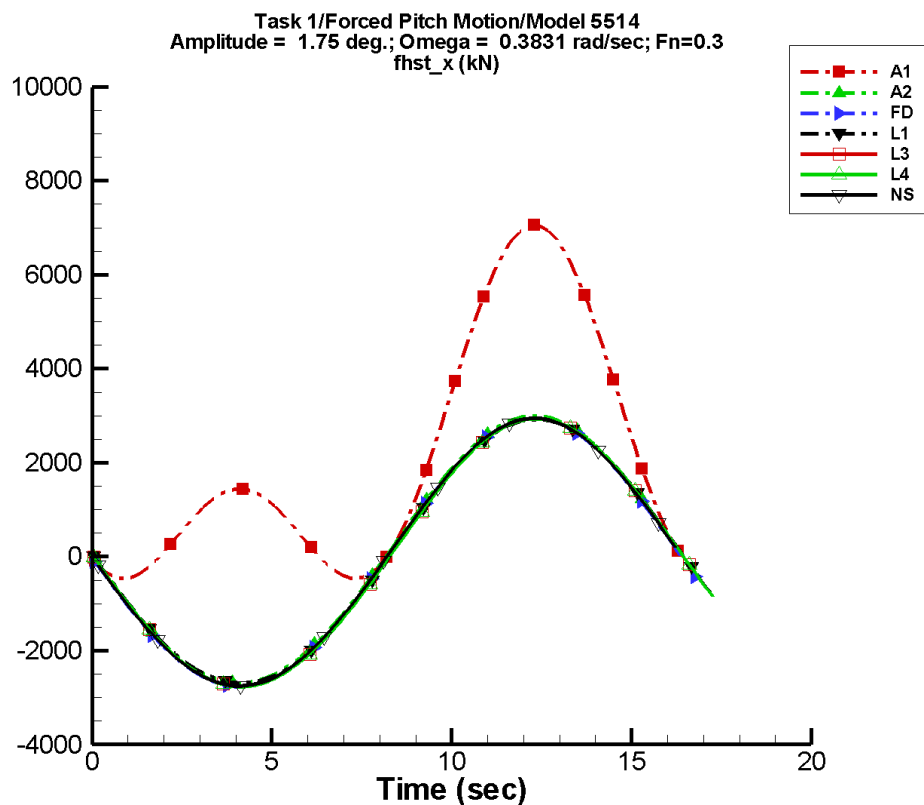
Table F–281. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	48.9	1.64E+03	180	12.3	-106
FD	-2.13	1.61E+03	180	19.1	-90
L1	—	—	—	—	—
L3	2.67	1.61E+03	179	18.6	-92
L4	2.67	1.61E+03	179	18.6	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–282. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.51E+03	1.70E+03	-1.54E+03	1.70E+03
FD	-1.60E+03	1.63E+03	-1.59E+03	1.62E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
L4	-1.59E+03	1.63E+03	-1.59E+03	1.63E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-142. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

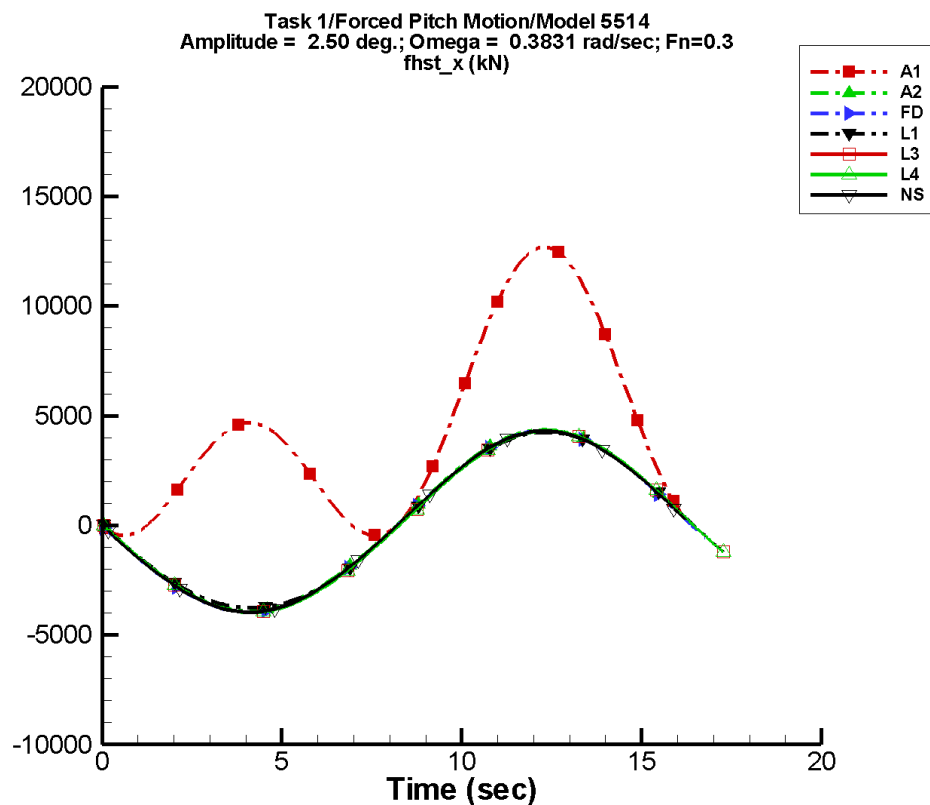
Table F–283. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	101.	2.83E+03	180	55.9	-91
FD	33.7	2.84E+03	180	52.0	-91
L1	—	—	—	—	—
L3	37.4	2.84E+03	179	50.4	-91
L4	37.4	2.84E+03	179	50.4	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–284. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.69E+03	2.98E+03
FD	-2.77E+03	2.94E+03	-2.76E+03	2.92E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
L4	-2.77E+03	2.94E+03	-2.76E+03	2.93E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-143. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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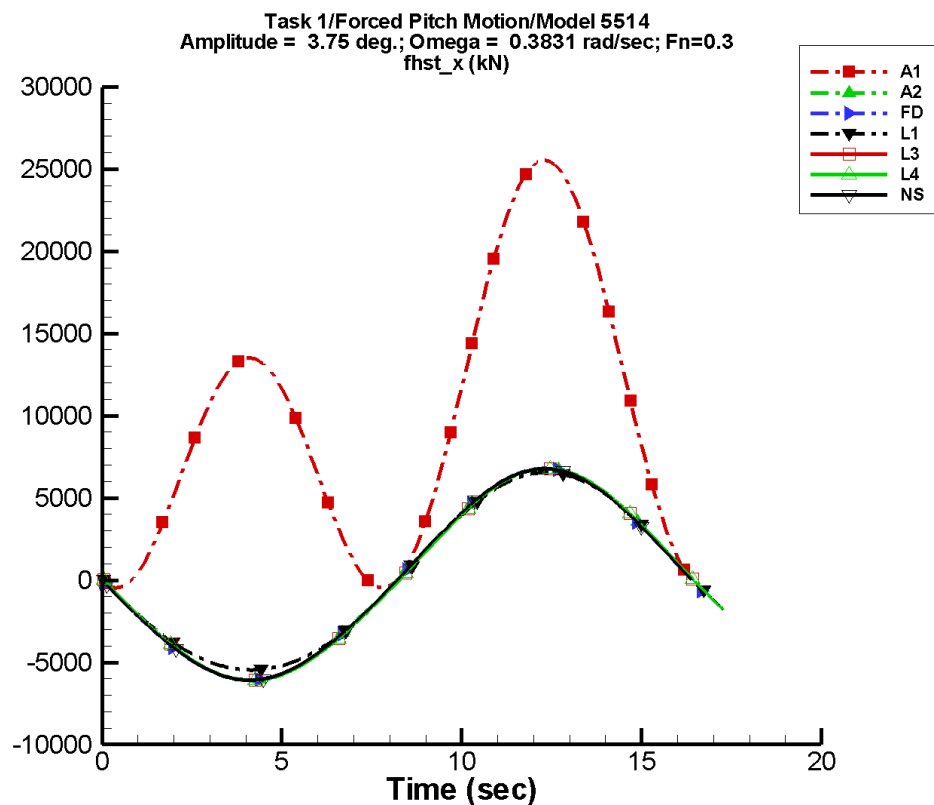
Table F–285. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	144.	4.10E+03	180	85.0	-89
FD	82.8	4.11E+03	180	94.6	-91
L1	—	—	—	—	—
L3	85.0	4.11E+03	179	91.9	-90
L4	85.0	4.11E+03	179	91.9	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–286. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.92E+03	4.34E+03
FD	-3.97E+03	4.31E+03	-3.95E+03	4.30E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
L4	-3.97E+03	4.31E+03	-3.96E+03	4.31E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure F-144. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

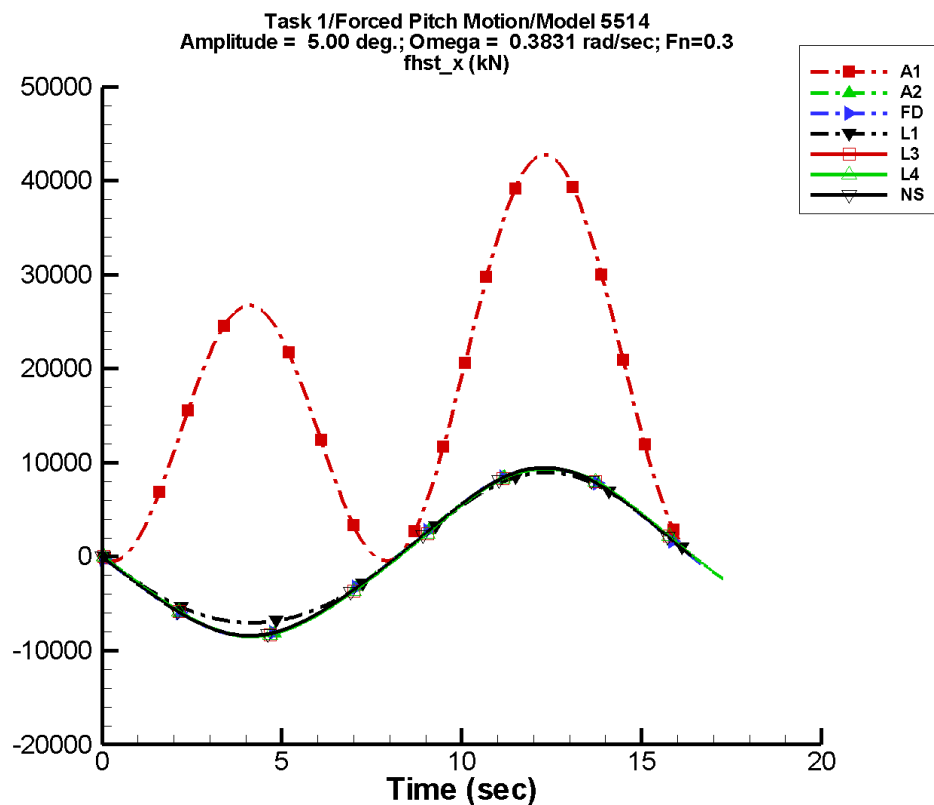
Table F–287. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	220.	6.33E+03	180	132.	-86
FD	186.	6.34E+03	180	178.	-92
L1	—	—	—	—	—
L3	185.	6.33E+03	179	172.	-89
L4	185.	6.33E+03	179	172.	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F–288. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.79E+03	-6.09E+03	6.76E+03
FD	-6.09E+03	6.80E+03	-6.06E+03	6.77E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.09E+03	6.78E+03
L4	-6.10E+03	6.79E+03	-6.09E+03	6.78E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-145. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

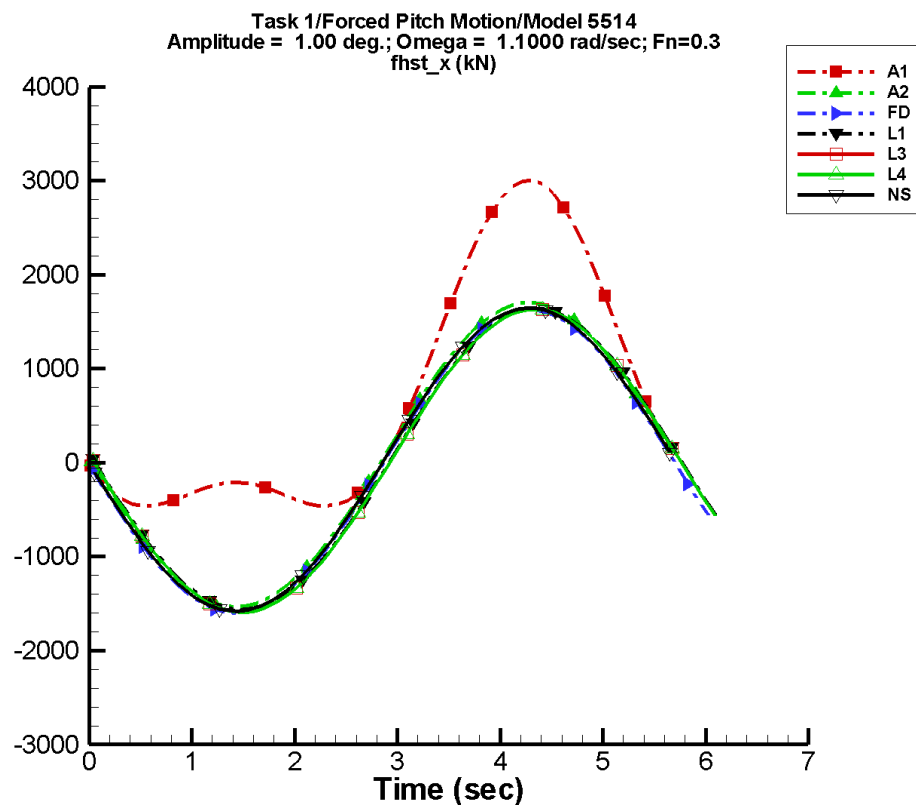
Table F–289. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	302.	8.74E+03	180	173.	-83
FD	290.	8.74E+03	180	233.	-94
L1	—	—	—	—	—
L3	283.	8.72E+03	179	228.	-87
L4	283.	8.72E+03	179	228.	-87
NF	—	—	—	—	—
NS	287.	8.72E+03	-180	259.	-90

Table F–290. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.48E+03	9.38E+03	-8.49E+03	9.33E+03
FD	-8.44E+03	9.37E+03	-8.41E+03	9.34E+03
L1	—	—	—	—
L3	-8.47E+03	9.37E+03	-8.46E+03	9.35E+03
L4	-8.47E+03	9.37E+03	-8.46E+03	9.35E+03
NF	—	—	—	—
NS	-8.42E+03	9.47E+03	-8.38E+03	9.43E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-146. Time history of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

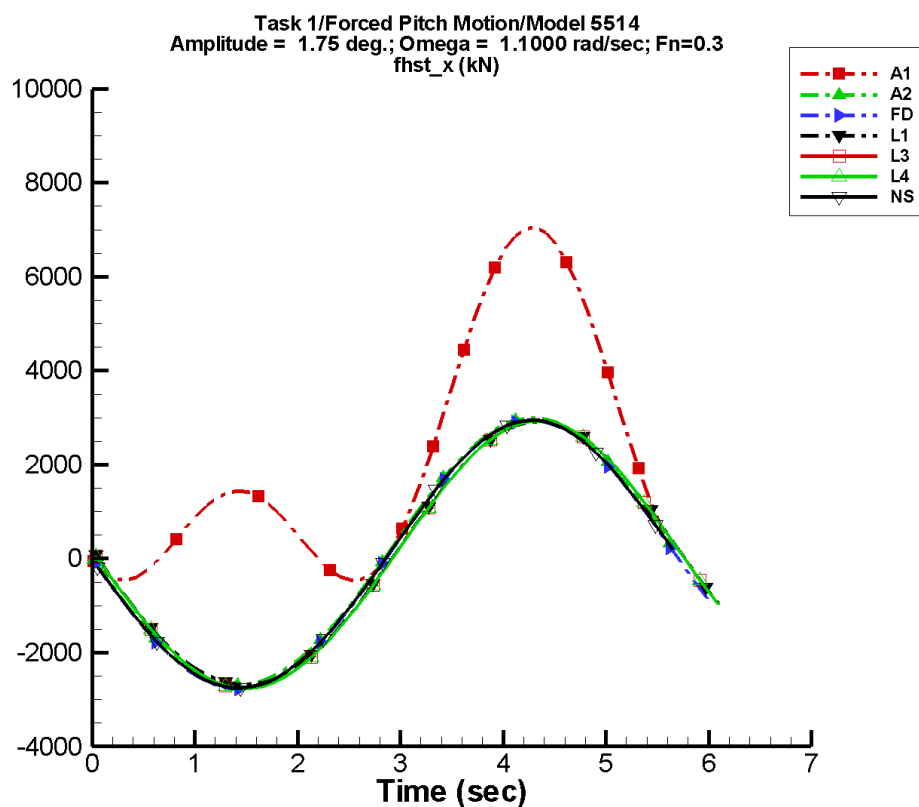
Table F–291. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	63.3	1.62E+03	180	22.5	-96
FD	-2.12	1.61E+03	180	18.9	-90
L1	—	—	—	—	—
L3	2.56	1.61E+03	176	18.2	-98
L4	2.56	1.61E+03	176	18.2	-98
NF	—	—	—	—	—
NS	16.4	1.61E+03	-180	16.3	-90

Table F–292. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.53E+03	1.70E+03	-1.50E+03	1.65E+03
FD	-1.60E+03	1.63E+03	-1.55E+03	1.58E+03
L1	—	—	—	—
L3	-1.59E+03	1.63E+03	-1.57E+03	1.61E+03
L4	-1.59E+03	1.63E+03	-1.57E+03	1.61E+03
NF	—	—	—	—
NS	-1.58E+03	1.64E+03	-1.56E+03	1.63E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-147. Time history of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

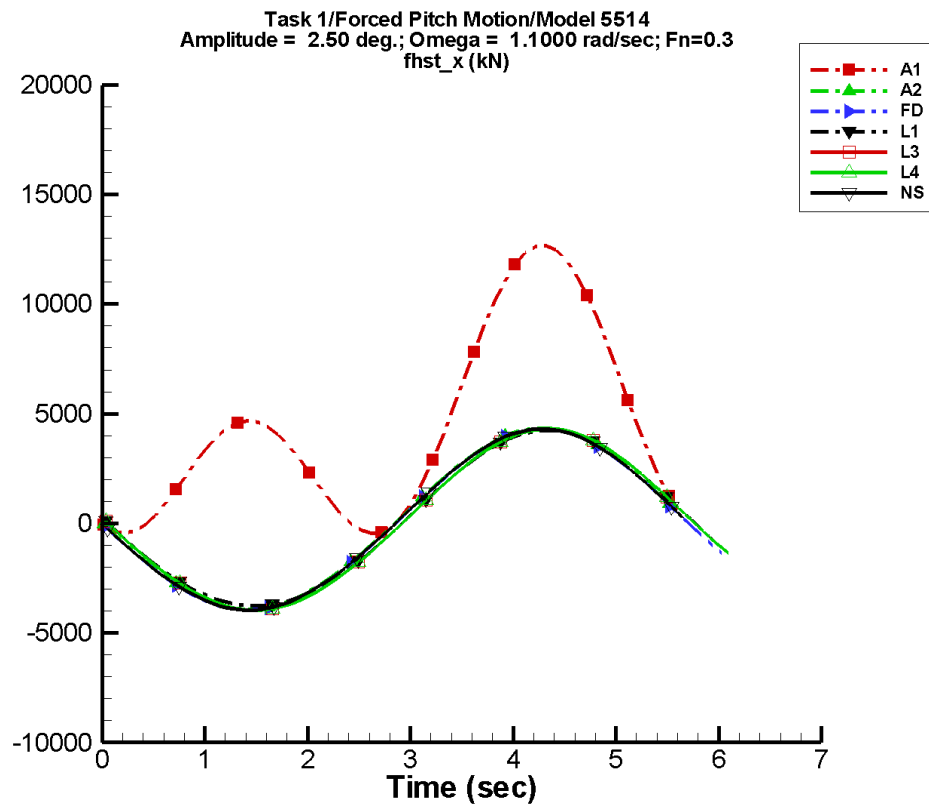
Table F–293. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	101.	2.83E+03	180	56.5	-95
FD	33.6	2.84E+03	180	50.4	-90
L1	—	—	—	—	—
L3	37.2	2.84E+03	176	48.1	-98
L4	37.2	2.84E+03	176	48.1	-98
NF	—	—	—	—	—
NS	47.9	2.84E+03	-180	46.7	-90

Table F–294. Minimum and maximum of F_x^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-2.69E+03	2.99E+03	-2.62E+03	2.90E+03
FD	-2.77E+03	2.93E+03	-2.68E+03	2.84E+03
L1	—	—	—	—
L3	-2.77E+03	2.94E+03	-2.73E+03	2.90E+03
L4	-2.77E+03	2.94E+03	-2.73E+03	2.90E+03
NF	—	—	—	—
NS	-2.76E+03	2.94E+03	-2.73E+03	2.91E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-148. Time history of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

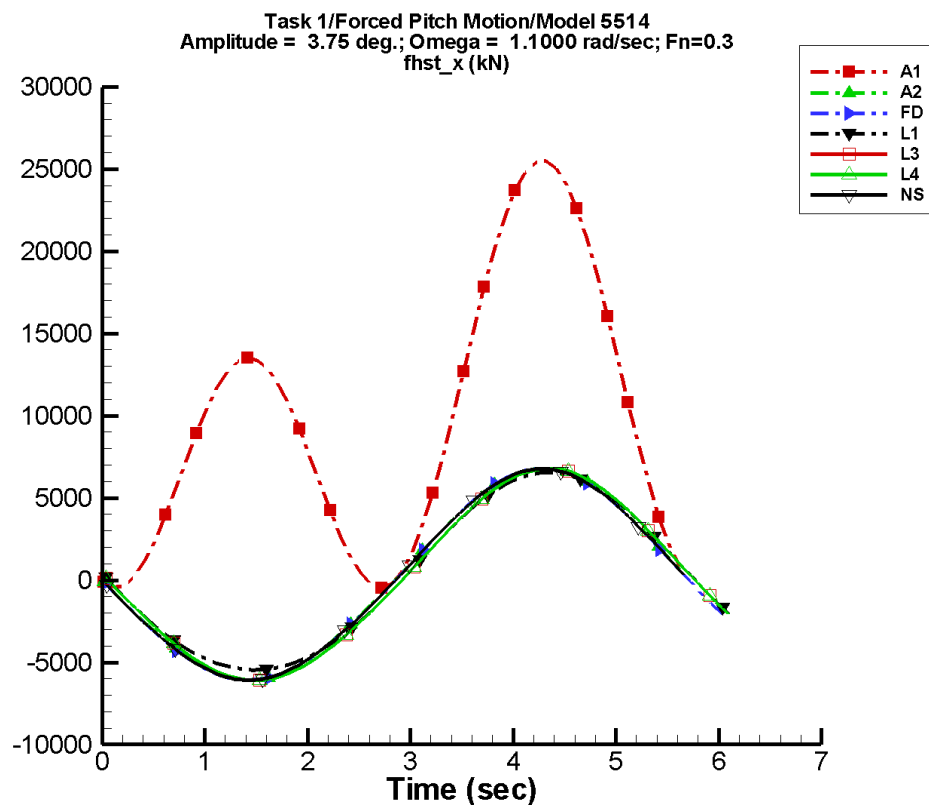
Table F–295. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	143.	4.10E+03	180	87.5	-92
FD	82.7	4.11E+03	180	89.7	-90
L1	—	—	—	—	—
L3	84.8	4.11E+03	176	85.3	-98
L4	84.8	4.11E+03	176	85.3	-98
NF	—	—	—	—	—
NS	90.9	4.10E+03	180	86.5	-90

Table F–296. Minimum and maximum of F_x^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.91E+03	4.35E+03	-3.80E+03	4.21E+03
FD	-3.97E+03	4.31E+03	-3.84E+03	4.16E+03
L1	—	—	—	—
L3	-3.97E+03	4.31E+03	-3.92E+03	4.26E+03
L4	-3.97E+03	4.31E+03	-3.92E+03	4.26E+03
NF	—	—	—	—
NS	-3.96E+03	4.31E+03	-3.92E+03	4.26E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-149. Time history of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

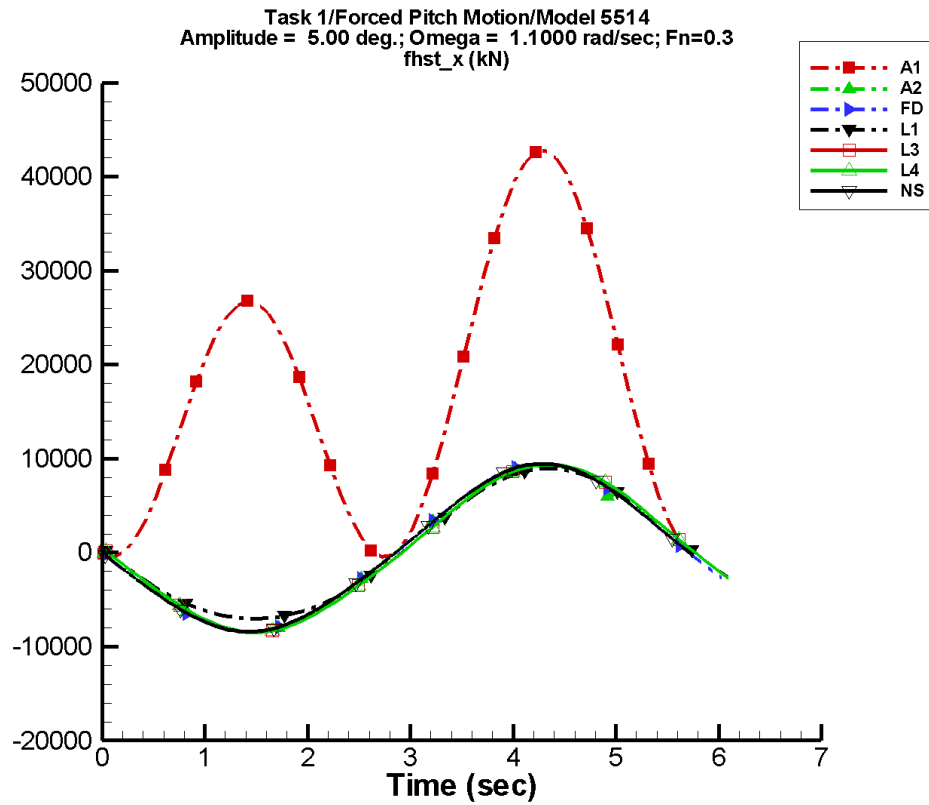
Table F-297. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	220.	6.33E+03	180	138.	-89
FD	186.	6.34E+03	180	162.	-91
L1	—	—	—	—	—
L3	185.	6.34E+03	176	150.	-97
L4	185.	6.34E+03	176	150.	-97
NF	—	—	—	—	—
NS	181.	6.32E+03	-180	167.	-90

Table F-298. Minimum and maximum of F_x^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-6.08E+03	6.78E+03	-5.90E+03	6.55E+03
FD	-6.09E+03	6.79E+03	-5.88E+03	6.55E+03
L1	—	—	—	—
L3	-6.10E+03	6.79E+03	-6.02E+03	6.70E+03
L4	-6.10E+03	6.79E+03	-6.02E+03	6.70E+03
NF	—	—	—	—
NS	-6.08E+03	6.76E+03	-6.04E+03	6.71E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1 and NFA.

Figure F-150. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

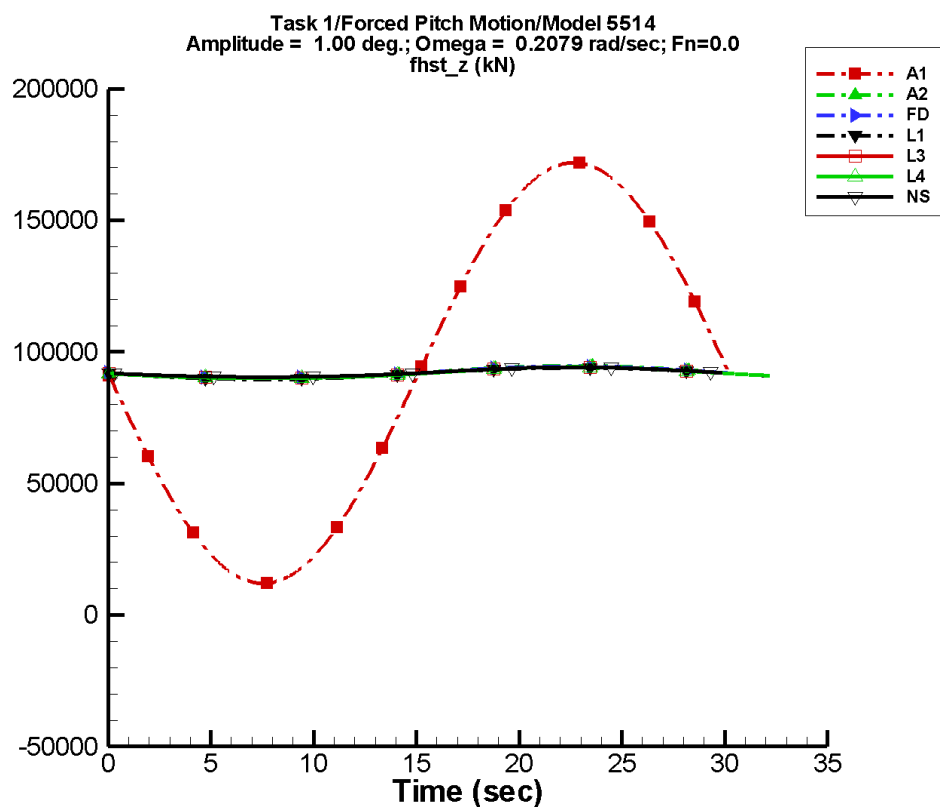
Table F–299. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	283.	8.70E+03	180	183.	-74
FD	288.	8.72E+03	180	202.	-91
L1	—	—	—	—	—
L3	284.	8.73E+03	176	183.	-97
L4	284.	8.73E+03	176	183.	-97
NF	—	—	—	—	—
NS	287.	8.72E+03	-180	259.	-90

Table F–300. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-8.47E+03	9.38E+03	-8.16E+03	9.04E+03
FD	-8.44E+03	9.36E+03	-8.13E+03	9.07E+03
L1	—	—	—	—
L3	-8.47E+03	9.36E+03	-8.35E+03	9.26E+03
L4	-8.47E+03	9.36E+03	-8.35E+03	9.26E+03
NF	—	—	—	—
NS	-8.42E+03	9.47E+03	-8.38E+03	9.43E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-151. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

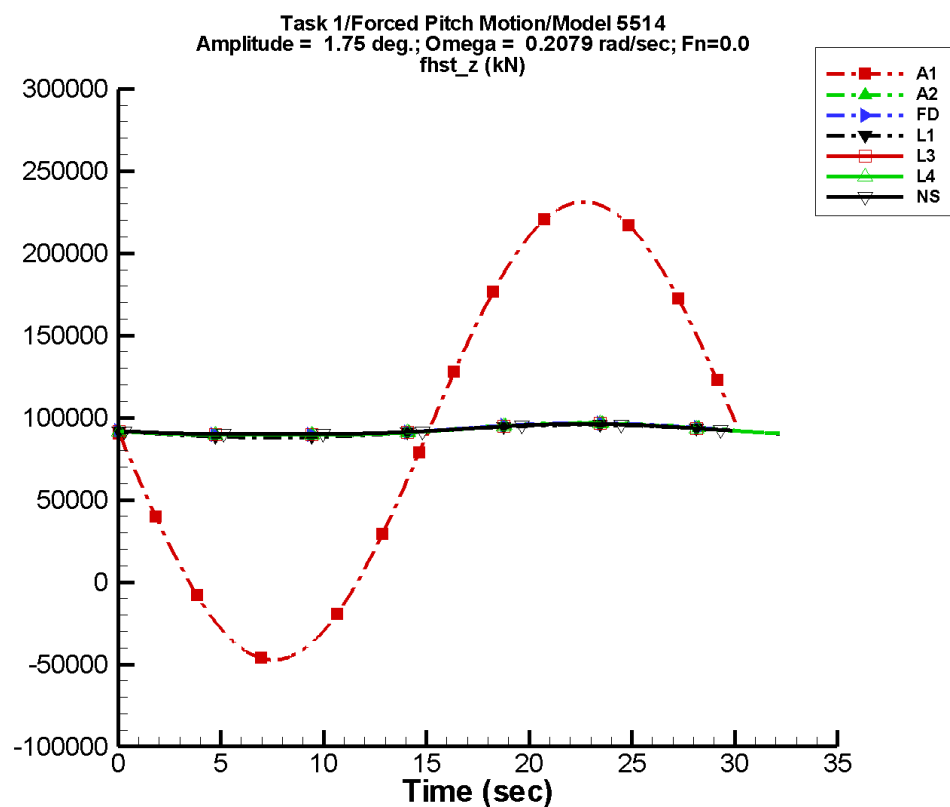
Table F–301. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	180	6.67	93
A2	9.21E+04	2.54E+03	-180	144.	-92
FD	9.22E+04	2.19E+03	-180	189.	-89
L1	9.18E+04	2.22E+03	179	6.97	89
L3	9.20E+04	2.14E+03	179	194.	-91
L4	9.20E+04	2.14E+03	179	194.	-91
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	-180	198.	-90

Table F–302. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.20E+04	1.72E+05
A2	8.98E+04	9.47E+04	8.98E+04	9.47E+04
FD	9.02E+04	9.46E+04	9.02E+04	9.46E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.00E+04	9.43E+04
L4	9.00E+04	9.43E+04	9.00E+04	9.43E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-152. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

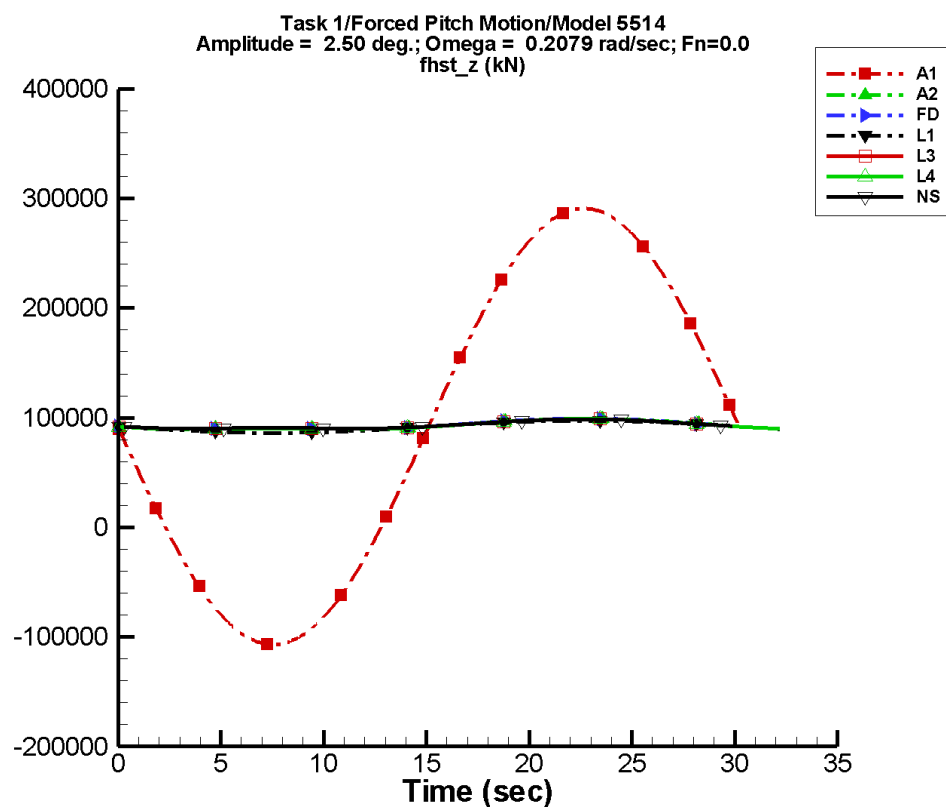
Table F–303. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	180	19.3	94
A2	9.26E+04	3.87E+03	179	714.	-95
FD	9.27E+04	3.55E+03	-180	697.	-89
L1	9.18E+04	3.88E+03	179	21.3	89
L3	9.24E+04	3.46E+03	179	721.	-92
L4	9.24E+04	3.46E+03	179	721.	-92
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	180	635.	-90

Table F–304. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.74E+04	2.31E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.69E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.68E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.65E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.65E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-153. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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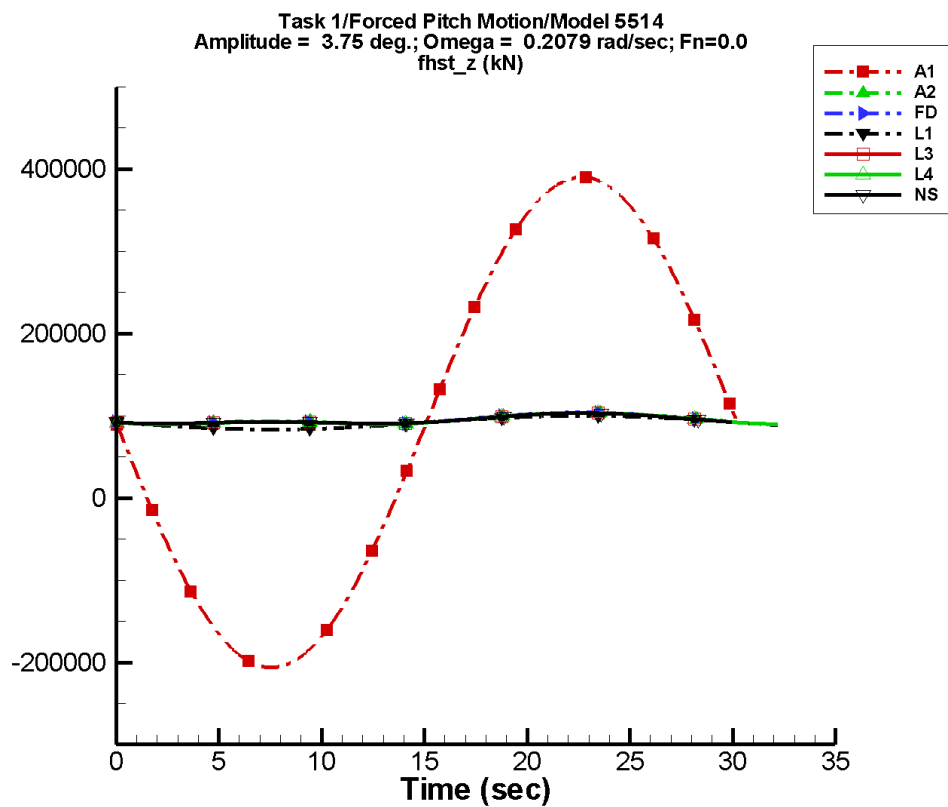
Table F–305. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	180	37.6	96
A2	9.34E+04	4.69E+03	179	1.65E+03	-94
FD	9.34E+04	4.66E+03	-180	1.48E+03	-89
L1	9.18E+04	5.54E+03	179	43.4	89
L3	9.32E+04	4.53E+03	179	1.52E+03	-92
L4	9.32E+04	4.53E+03	179	1.52E+03	-92
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–306. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.07E+05	2.91E+05
A2	8.95E+04	9.92E+04	8.95E+04	9.92E+04
FD	8.99E+04	9.93E+04	8.99E+04	9.93E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.89E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.89E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-154. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $Fn = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

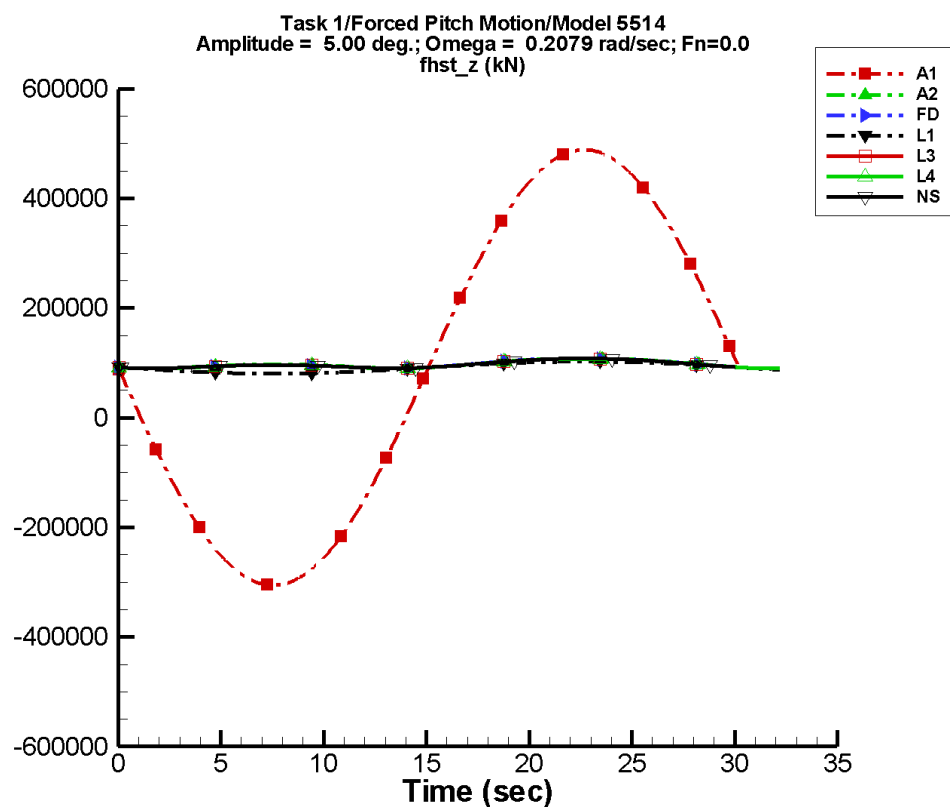
Table F–307. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	180	77.9	100
A2	9.53E+04	5.72E+03	180	3.58E+03	-93
FD	9.52E+04	6.12E+03	-179	3.28E+03	-89
L1	9.17E+04	8.31E+03	179	97.2	89
L3	9.49E+04	5.93E+03	179	3.34E+03	-92
L4	9.49E+04	5.93E+03	179	3.34E+03	-92
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F–308. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-2.06E+05	3.90E+05
A2	8.95E+04	1.04E+05	8.96E+04	1.04E+05
FD	8.99E+04	1.04E+05	8.99E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.33E+04	9.99E+04
L3	8.98E+04	1.04E+05	8.98E+04	1.04E+05
L4	8.98E+04	1.04E+05	8.98E+04	1.04E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-155. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

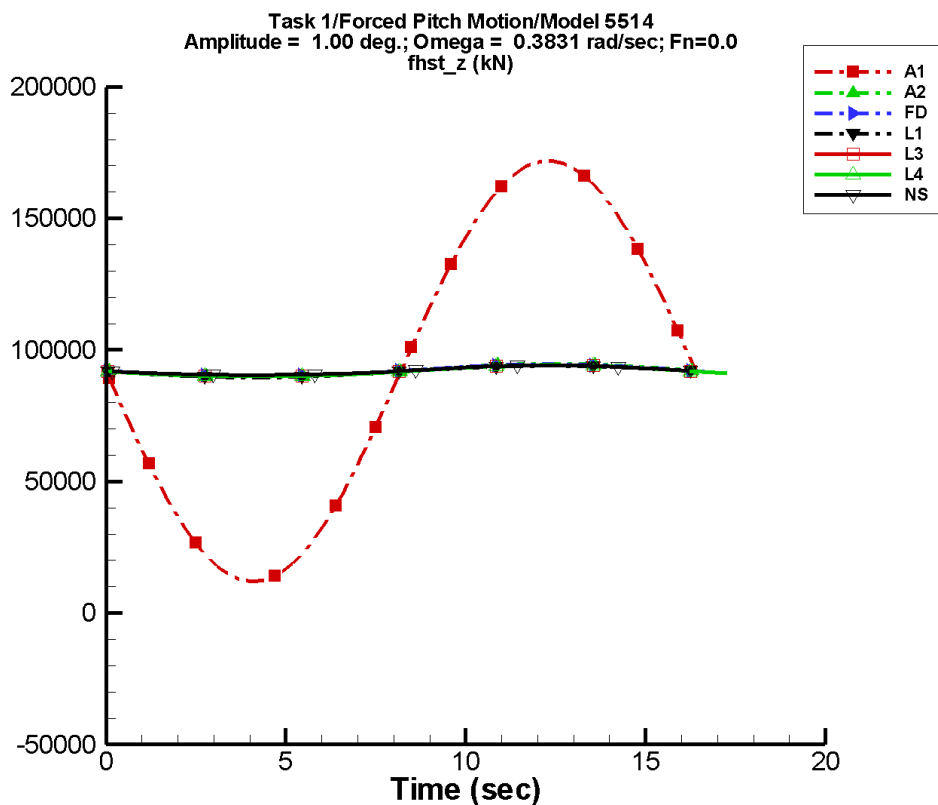
Table F–309. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	-180	128.	104
A2	9.75E+04	6.25E+03	-180	5.63E+03	-93
FD	9.73E+04	6.77E+03	-179	5.25E+03	-88
L1	9.16E+04	1.11E+04	179	172.	89
L3	9.71E+04	6.59E+03	180	5.41E+03	-92
L4	9.71E+04	6.59E+03	180	5.41E+03	-92
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F–310. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-3.06E+05	4.88E+05
A2	8.95E+04	1.08E+05	8.96E+04	1.08E+05
FD	8.99E+04	1.07E+05	9.00E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.04E+04	1.02E+05
L3	8.98E+04	1.07E+05	8.98E+04	1.07E+05
L4	8.98E+04	1.07E+05	8.98E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-156. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $Fn = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

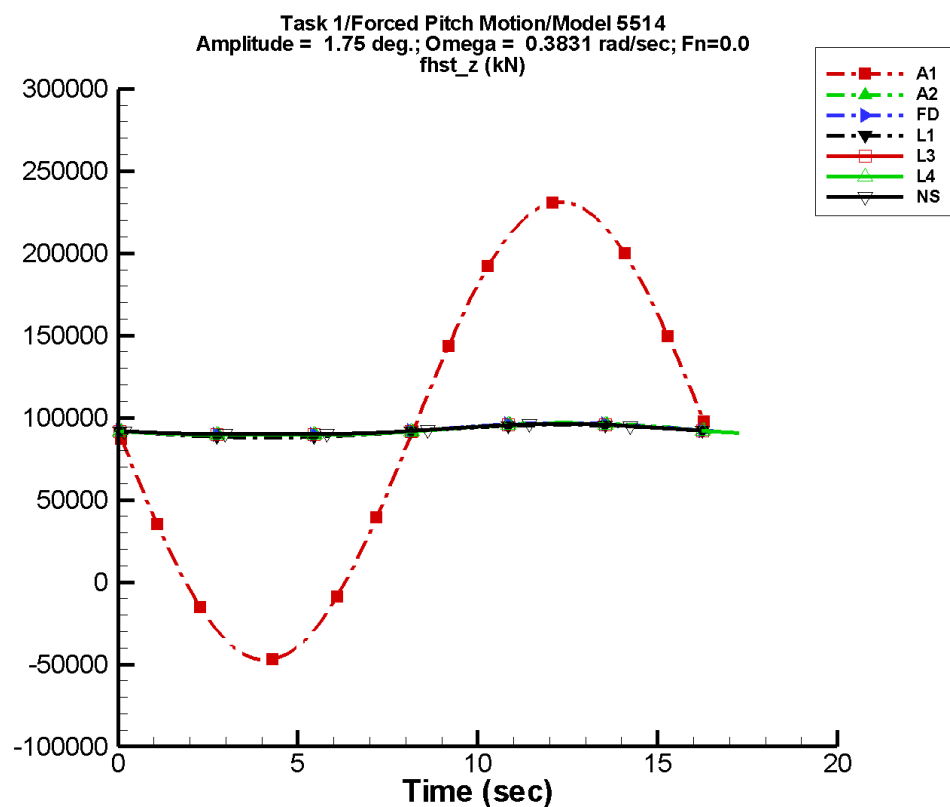
Table F–311. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	-180	6.61	92
A2	9.21E+04	2.54E+03	178	141.	-97
FD	9.22E+04	2.19E+03	-180	187.	-90
L1	9.18E+04	2.22E+03	179	6.98	87
L3	9.20E+04	2.14E+03	179	188.	-93
L4	9.20E+04	2.14E+03	179	188.	-93
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	180	198.	-90

Table F–312. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.18E+04	1.72E+05
A2	8.97E+04	9.47E+04	8.98E+04	9.47E+04
FD	9.02E+04	9.46E+04	9.02E+04	9.45E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.00E+04	9.43E+04
L4	9.00E+04	9.43E+04	9.00E+04	9.43E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-157. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

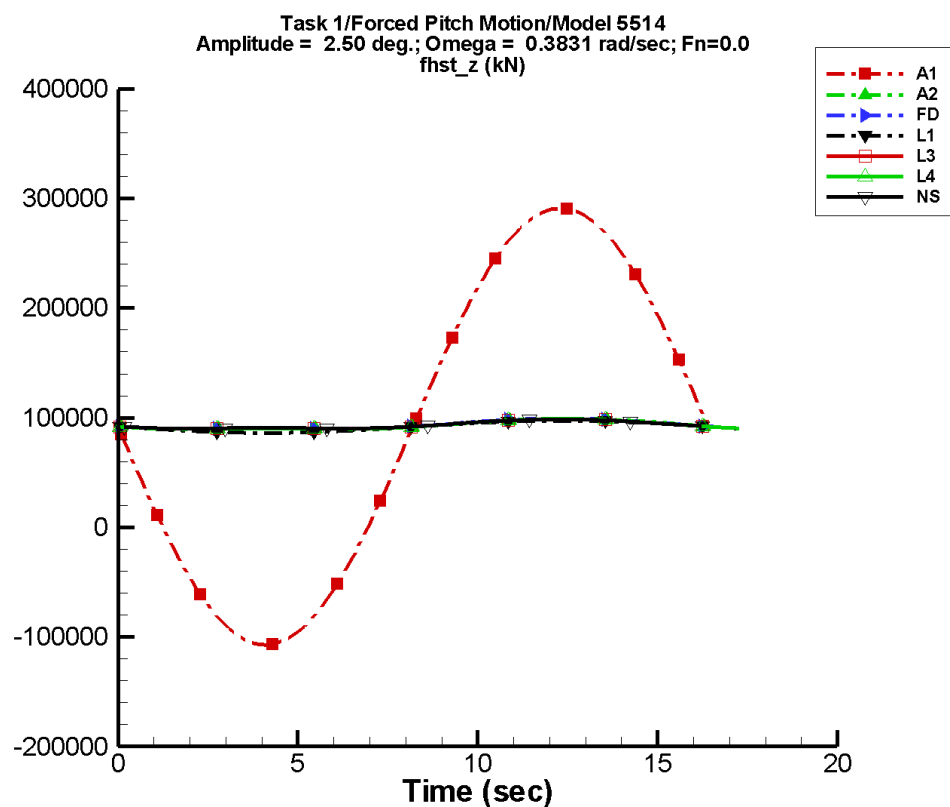
Table F–313. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	-180	19.1	94
A2	9.26E+04	3.87E+03	178	713.	-97
FD	9.27E+04	3.55E+03	-180	690.	-89
L1	9.18E+04	3.88E+03	179	21.4	87
L3	9.24E+04	3.47E+03	179	693.	-94
L4	9.24E+04	3.47E+03	179	693.	-94
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	-180	635.	-90

Table F–314. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.77E+04	2.31E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.69E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.68E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.65E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.65E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-158. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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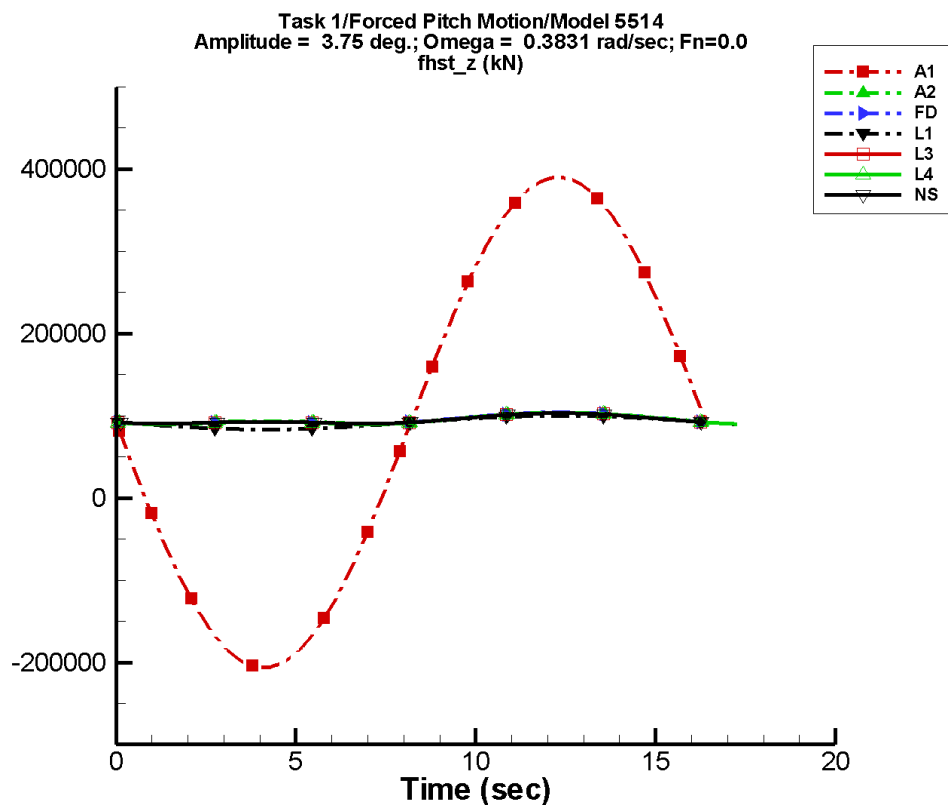
Table F–315. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	-180	37.0	96
A2	9.34E+04	4.69E+03	178	1.66E+03	-96
FD	9.34E+04	4.65E+03	-180	1.47E+03	-89
L1	9.18E+04	5.54E+03	179	43.6	88
L3	9.32E+04	4.55E+03	179	1.47E+03	-94
L4	9.32E+04	4.55E+03	179	1.47E+03	-94
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–316. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.08E+05	2.90E+05
A2	8.95E+04	9.92E+04	8.96E+04	9.92E+04
FD	8.99E+04	9.93E+04	8.99E+04	9.93E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.89E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.89E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-159. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

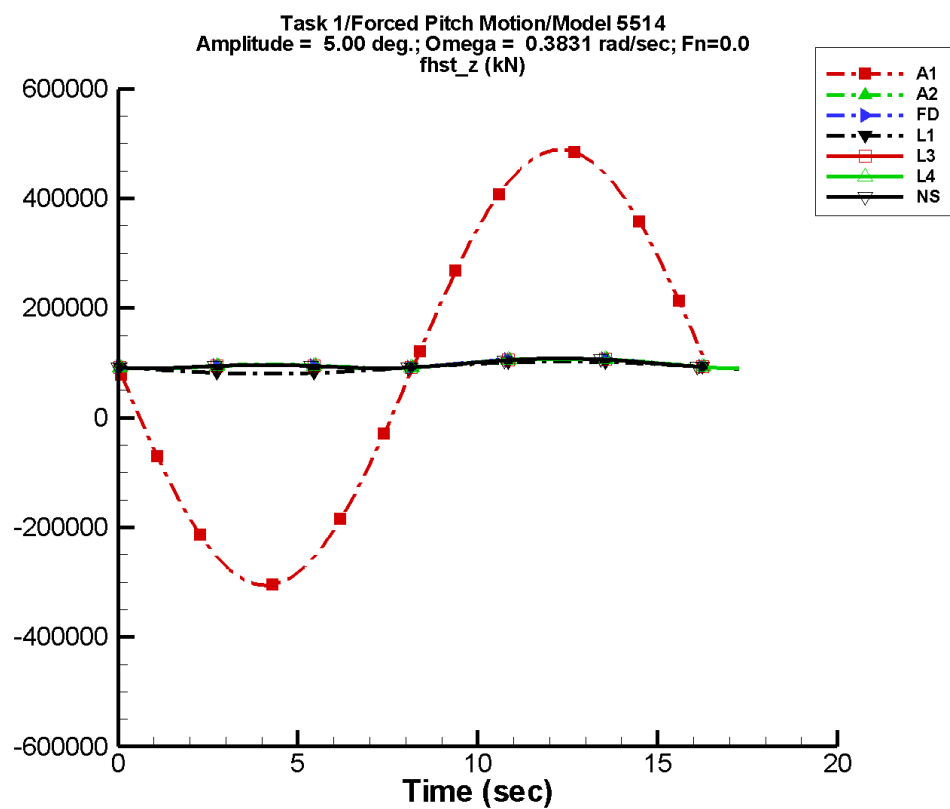
Table F–317. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	-180	76.1	100
A2	9.53E+04	5.71E+03	179	3.58E+03	-95
FD	9.51E+04	6.10E+03	-179	3.24E+03	-89
L1	9.17E+04	8.31E+03	179	98.0	88
L3	9.49E+04	5.96E+03	179	3.26E+03	-94
L4	9.49E+04	5.96E+03	179	3.26E+03	-94
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F–318. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-2.07E+05	3.89E+05
A2	8.95E+04	1.04E+05	8.96E+04	1.04E+05
FD	8.99E+04	1.04E+05	9.00E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.33E+04	9.99E+04
L3	8.98E+04	1.04E+05	8.98E+04	1.04E+05
L4	8.98E+04	1.04E+05	8.98E+04	1.04E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-160. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

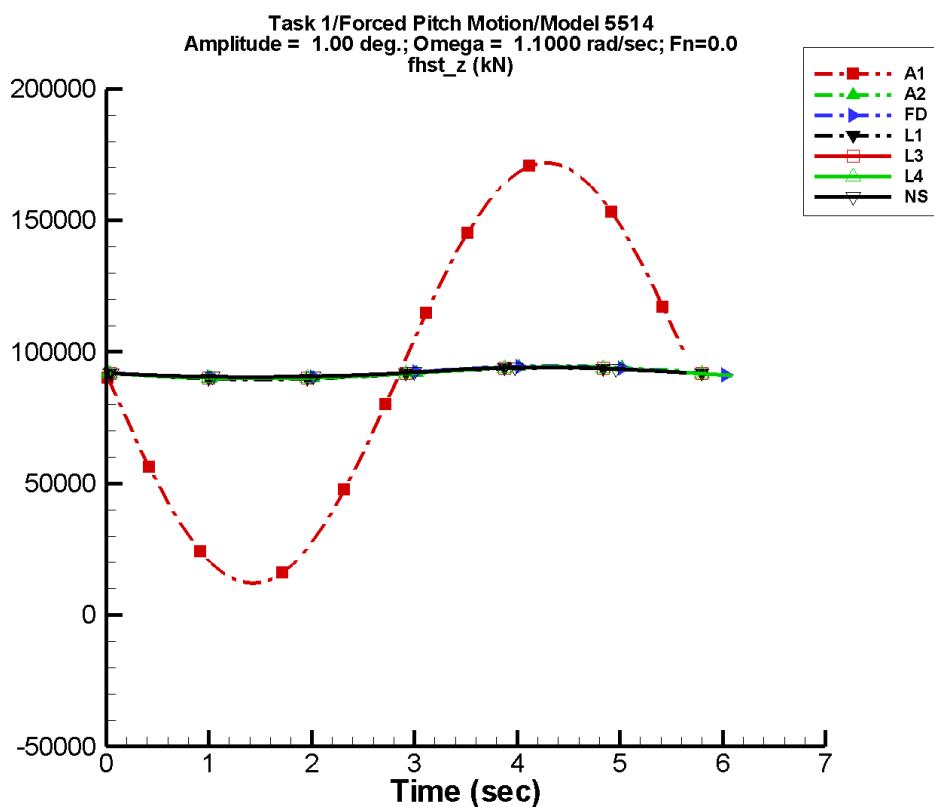
Table F–319. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	-180	124.	105
A2	9.76E+04	6.23E+03	179	5.64E+03	-95
FD	9.73E+04	6.73E+03	-179	5.15E+03	-89
L1	9.16E+04	1.11E+04	179	174.	88
L3	9.71E+04	6.65E+03	180	5.26E+03	-94
L4	9.71E+04	6.65E+03	180	5.26E+03	-94
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F–320. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-3.07E+05	4.87E+05
A2	8.95E+04	1.08E+05	8.98E+04	1.08E+05
FD	8.99E+04	1.07E+05	9.00E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.04E+04	1.02E+05
L3	8.98E+04	1.07E+05	8.98E+04	1.07E+05
L4	8.98E+04	1.07E+05	8.98E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-161. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

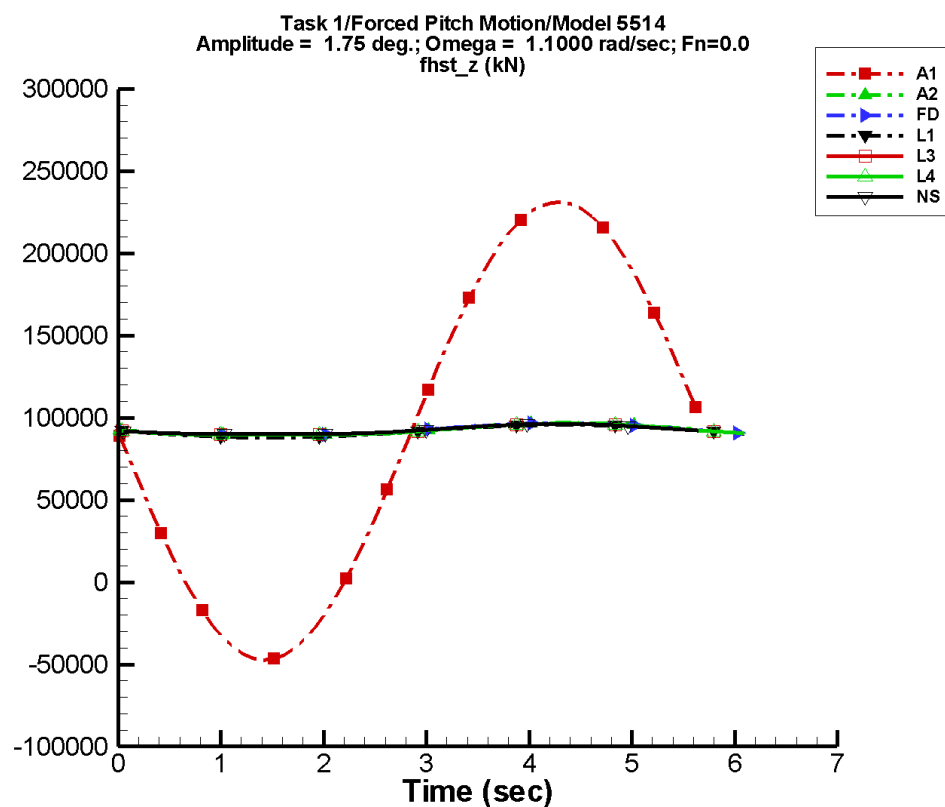
Table F–321. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	180	6.69	93
A2	9.21E+04	2.54E+03	174	140.	-106
FD	9.22E+04	2.19E+03	-180	191.	-90
L1	9.18E+04	2.22E+03	176	6.97	82
L3	9.20E+04	2.14E+03	176	193.	-98
L4	9.20E+04	2.14E+03	176	193.	-98
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	180	198.	-90

Table F–322. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.40E+04	1.69E+05
A2	8.98E+04	9.47E+04	8.98E+04	9.46E+04
FD	9.02E+04	9.46E+04	9.03E+04	9.45E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.01E+04	9.42E+04
L4	9.00E+04	9.43E+04	9.01E+04	9.42E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-162. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

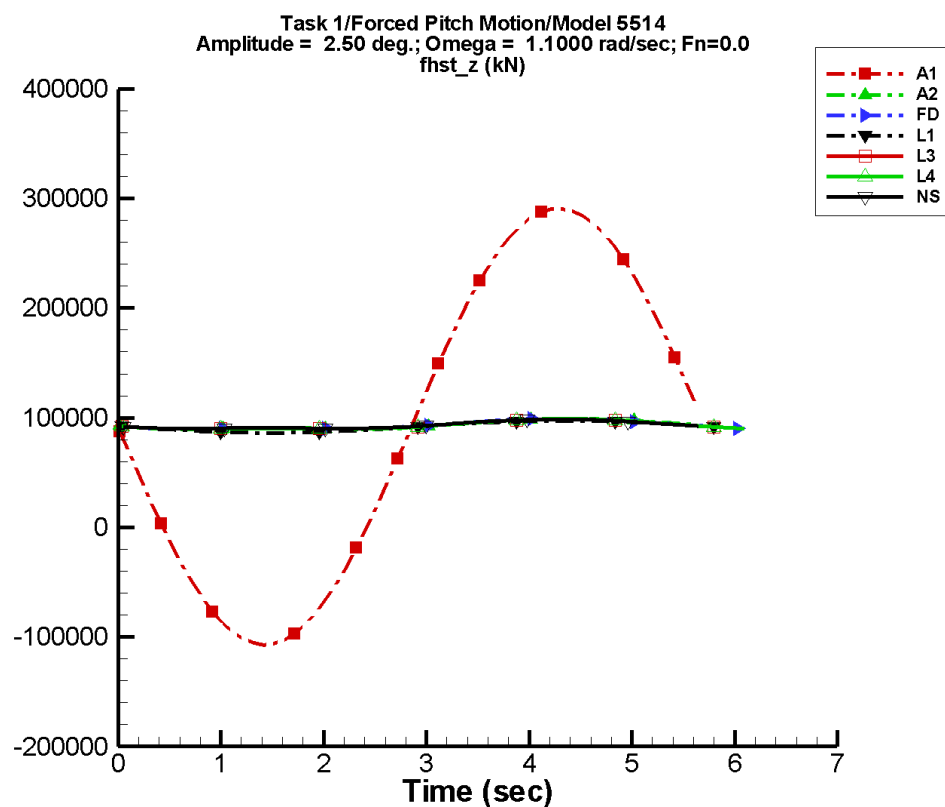
Table F–323. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	180	19.5	95
A2	9.26E+04	3.88E+03	174	697.	-106
FD	9.27E+04	3.56E+03	-180	709.	-90
L1	9.18E+04	3.88E+03	176	21.3	82
L3	9.24E+04	3.46E+03	176	719.	-98
L4	9.24E+04	3.46E+03	176	719.	-98
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	-180	635.	-90

Table F–324. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.40E+04	2.27E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.68E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.66E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.64E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.64E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-163. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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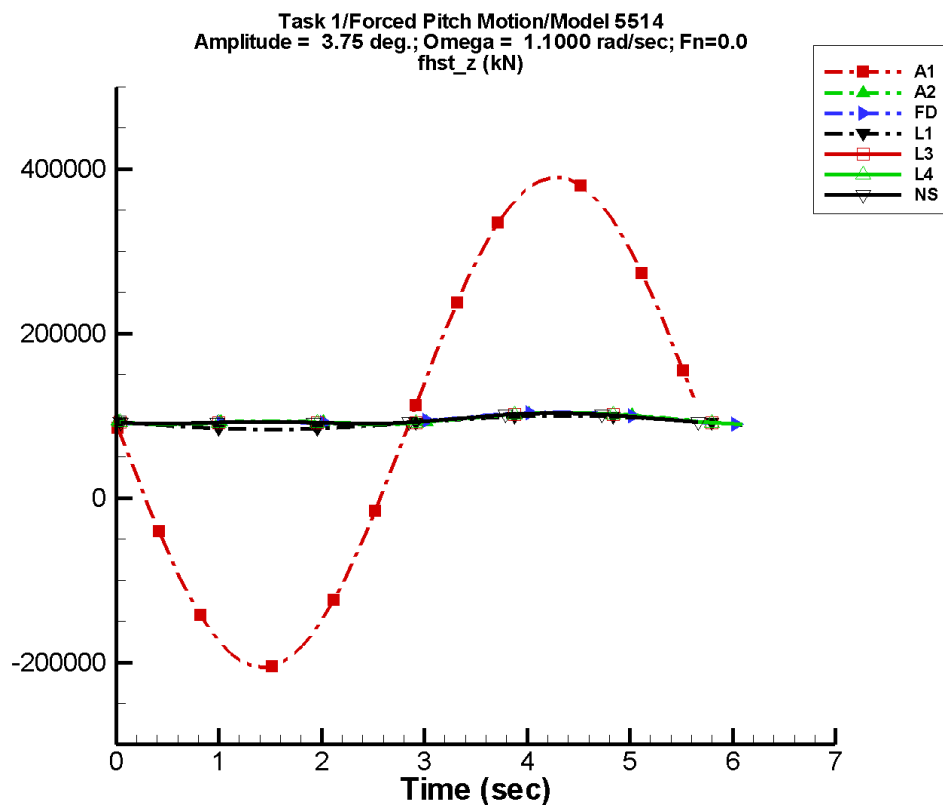
Table F–325. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	180	38.1	96
A2	9.34E+04	4.71E+03	174	1.63E+03	-105
FD	9.34E+04	4.67E+03	-180	1.51E+03	-90
L1	9.18E+04	5.54E+03	176	43.3	82
L3	9.32E+04	4.53E+03	176	1.52E+03	-98
L4	9.32E+04	4.53E+03	176	1.52E+03	-98
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–326. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.02E+05	2.85E+05
A2	8.95E+04	9.92E+04	8.99E+04	9.90E+04
FD	8.99E+04	9.93E+04	9.00E+04	9.90E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.88E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.88E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-164. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $Fn = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

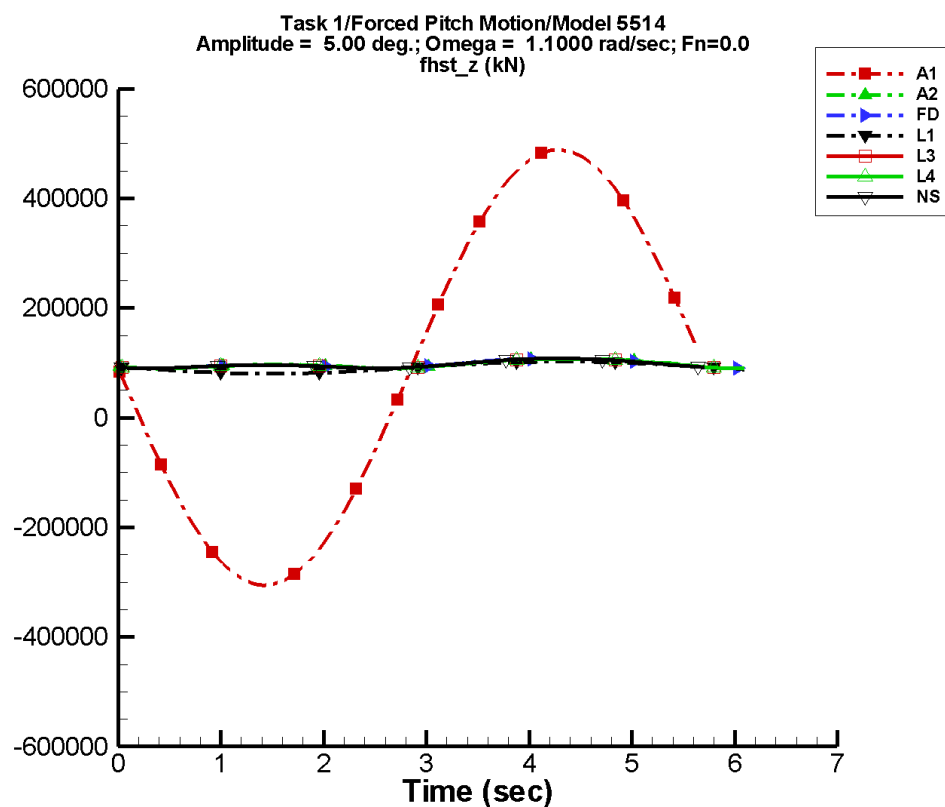
Table F–327. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	180	79.6	100
A2	9.53E+04	5.73E+03	174	3.55E+03	-104
FD	9.51E+04	6.13E+03	-180	3.33E+03	-90
L1	9.17E+04	8.30E+03	176	97.1	82
L3	9.49E+04	5.93E+03	176	3.35E+03	-98
L4	9.49E+04	5.93E+03	176	3.35E+03	-98
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F–328. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-1.99E+05	3.81E+05
A2	8.95E+04	1.04E+05	9.04E+04	1.03E+05
FD	8.99E+04	1.04E+05	9.04E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.34E+04	9.98E+04
L3	8.98E+04	1.04E+05	9.00E+04	1.03E+05
L4	8.98E+04	1.04E+05	9.00E+04	1.03E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-165. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

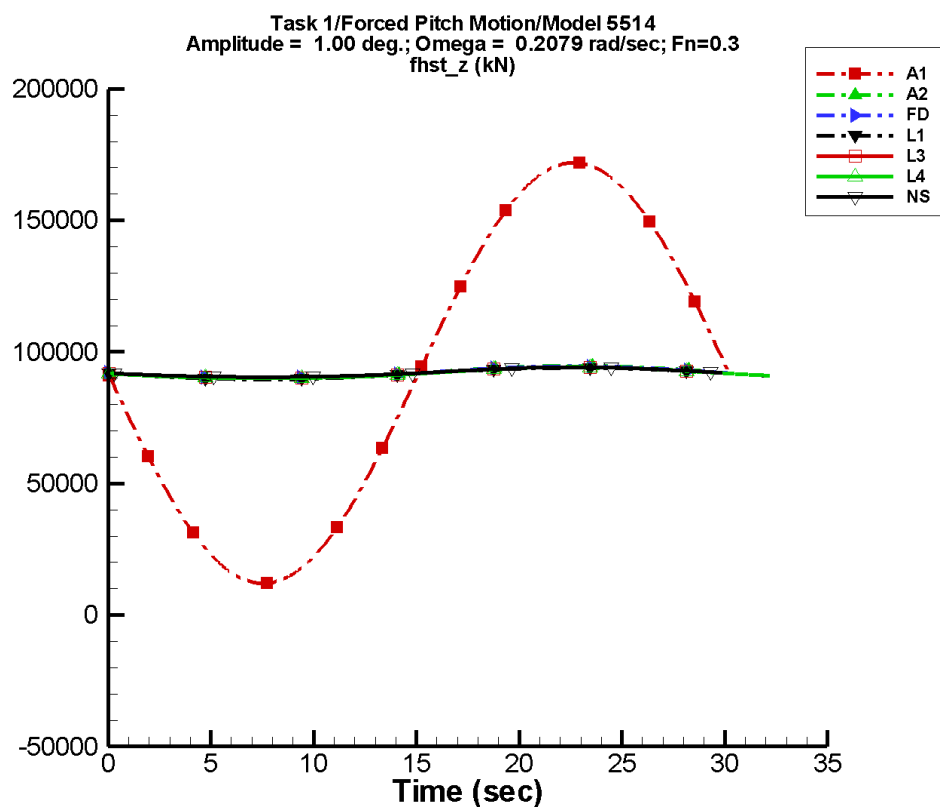
Table F–329. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	180	132.	104
A2	9.75E+04	6.24E+03	175	5.60E+03	-104
FD	9.73E+04	6.78E+03	-180	5.36E+03	-90
L1	9.16E+04	1.11E+04	176	172.	82
L3	9.71E+04	6.60E+03	176	5.45E+03	-98
L4	9.71E+04	6.60E+03	176	5.45E+03	-98
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F–330. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-2.96E+05	4.77E+05
A2	8.96E+04	1.08E+05	9.10E+04	1.07E+05
FD	8.99E+04	1.07E+05	9.08E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.05E+04	1.02E+05
L3	8.98E+04	1.07E+05	9.02E+04	1.07E+05
L4	8.98E+04	1.07E+05	9.02E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-166. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

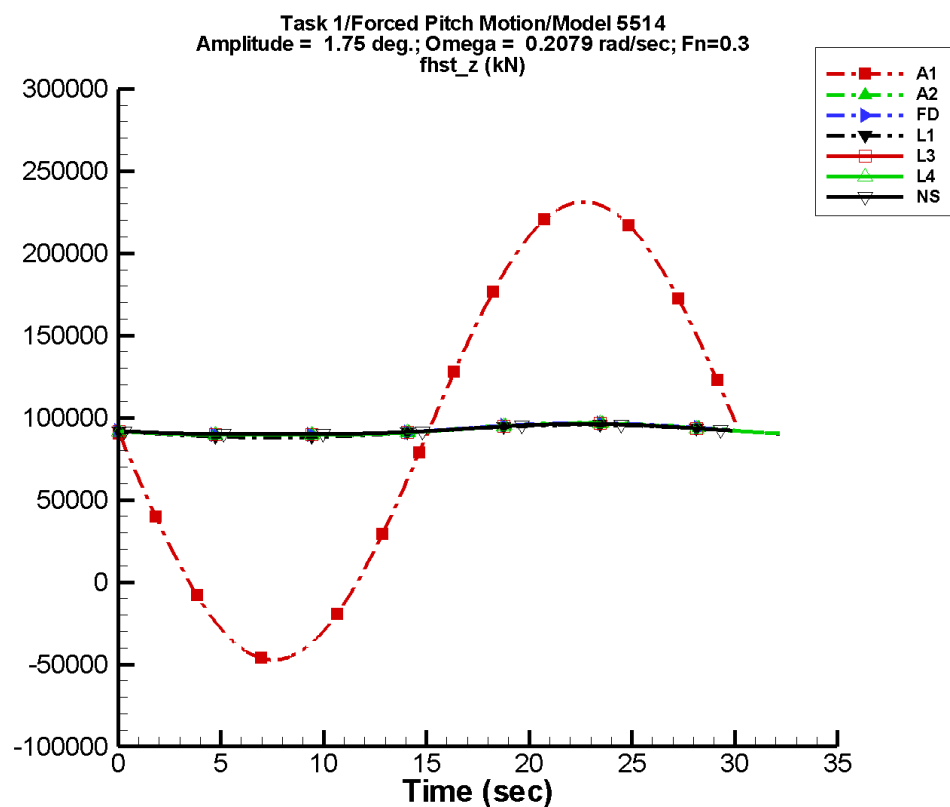
Table F–331. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	180	6.67	93
A2	9.21E+04	2.54E+03	179	143.	-95
FD	9.22E+04	2.19E+03	-180	189.	-89
L1	9.18E+04	2.22E+03	179	6.97	89
L3	9.20E+04	2.14E+03	179	194.	-91
L4	9.20E+04	2.14E+03	179	194.	-91
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	-180	198.	-90

Table F–332. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.20E+04	1.72E+05
A2	8.98E+04	9.47E+04	8.98E+04	9.47E+04
FD	9.02E+04	9.46E+04	9.02E+04	9.46E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.00E+04	9.43E+04
L4	9.00E+04	9.43E+04	9.00E+04	9.43E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-167. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

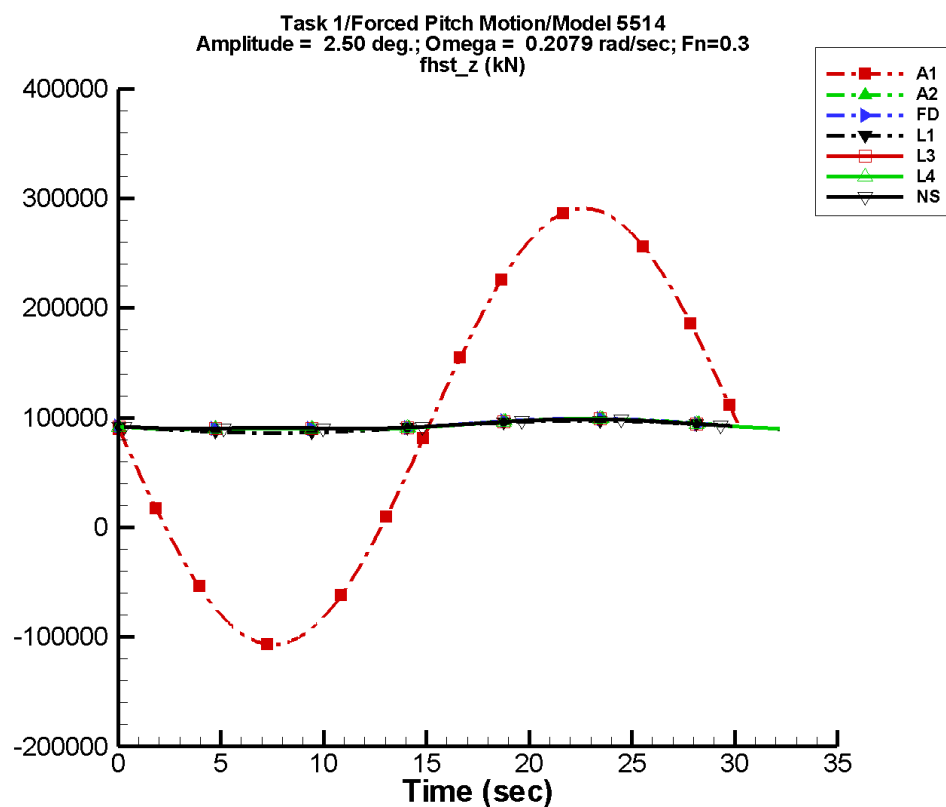
Table F–333. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	180	19.3	94
A2	9.26E+04	3.87E+03	179	714.	-95
FD	9.27E+04	3.55E+03	-180	697.	-89
L1	9.18E+04	3.88E+03	179	21.3	89
L3	9.24E+04	3.46E+03	179	721.	-92
L4	9.24E+04	3.46E+03	179	721.	-92
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	180	635.	-90

Table F–334. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.74E+04	2.31E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.69E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.68E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.65E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.65E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-168. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

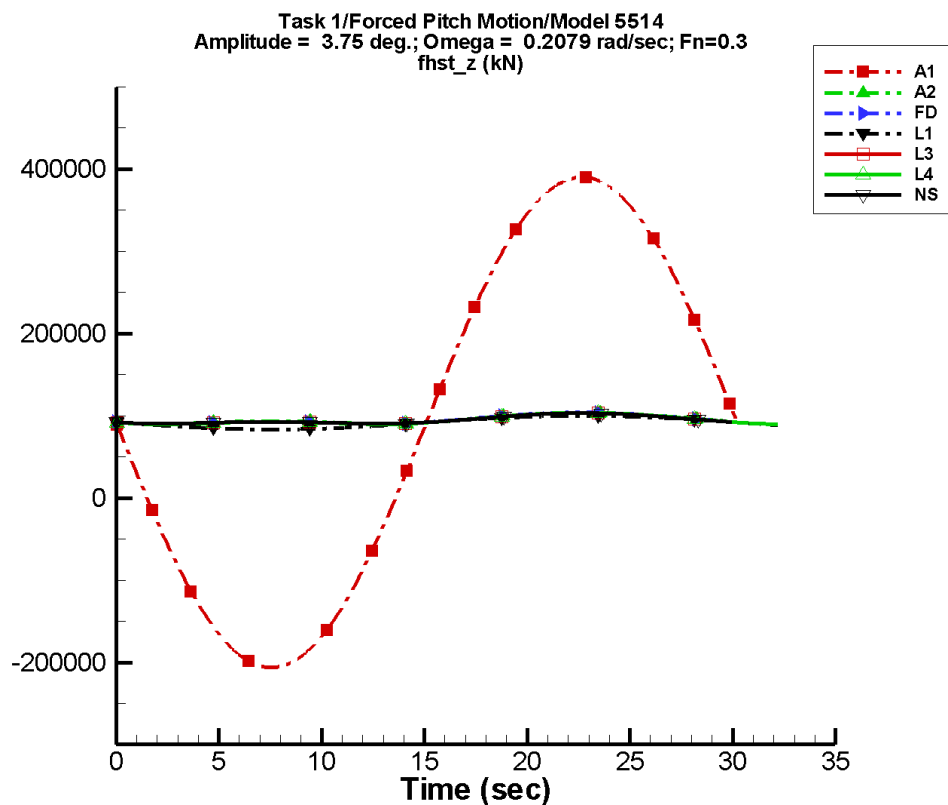
Table F–335. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	180	37.6	96
A2	9.34E+04	4.69E+03	179	1.65E+03	-94
FD	9.34E+04	4.66E+03	-180	1.48E+03	-89
L1	9.18E+04	5.54E+03	179	43.4	89
L3	9.32E+04	4.53E+03	179	1.52E+03	-92
L4	9.32E+04	4.53E+03	179	1.52E+03	-92
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–336. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.07E+05	2.91E+05
A2	8.95E+04	9.92E+04	8.95E+04	9.92E+04
FD	8.99E+04	9.93E+04	8.99E+04	9.93E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.89E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.89E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-169. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

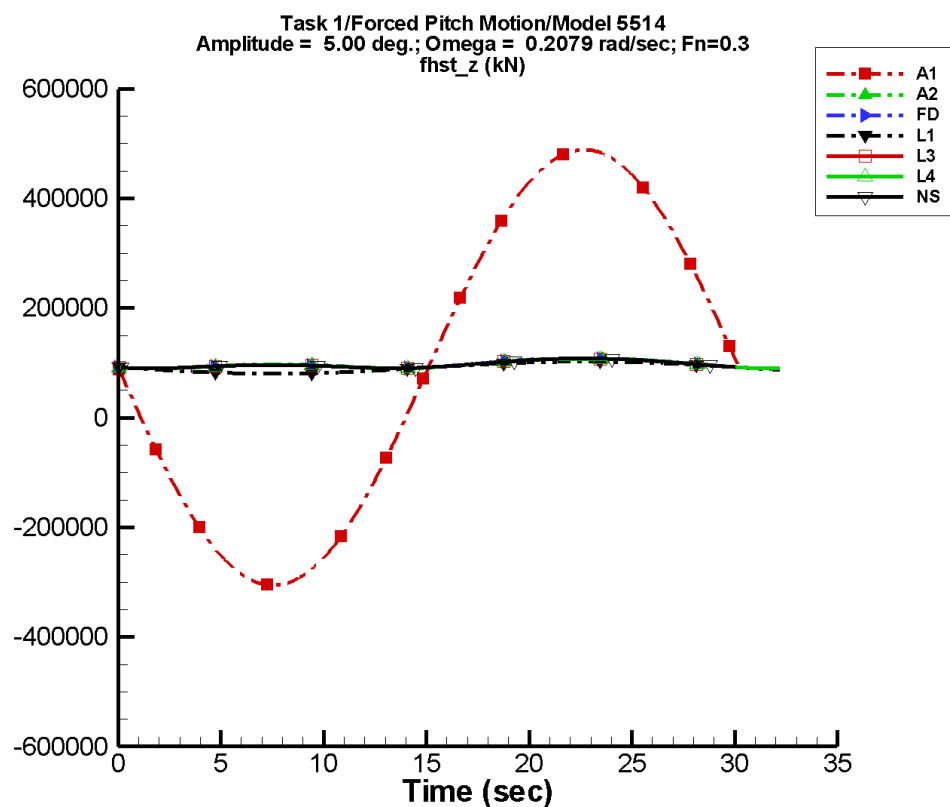
Table F–337. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	180	77.9	100
A2	9.53E+04	5.72E+03	180	3.58E+03	-93
FD	9.52E+04	6.12E+03	-179	3.28E+03	-89
L1	9.17E+04	8.31E+03	179	97.2	89
L3	9.49E+04	5.93E+03	179	3.34E+03	-92
L4	9.49E+04	5.93E+03	179	3.34E+03	-92
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F–338. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-2.06E+05	3.90E+05
A2	8.95E+04	1.04E+05	8.96E+04	1.04E+05
FD	8.99E+04	1.04E+05	8.99E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.33E+04	9.99E+04
L3	8.98E+04	1.04E+05	8.98E+04	1.04E+05
L4	8.98E+04	1.04E+05	8.98E+04	1.04E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-170. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

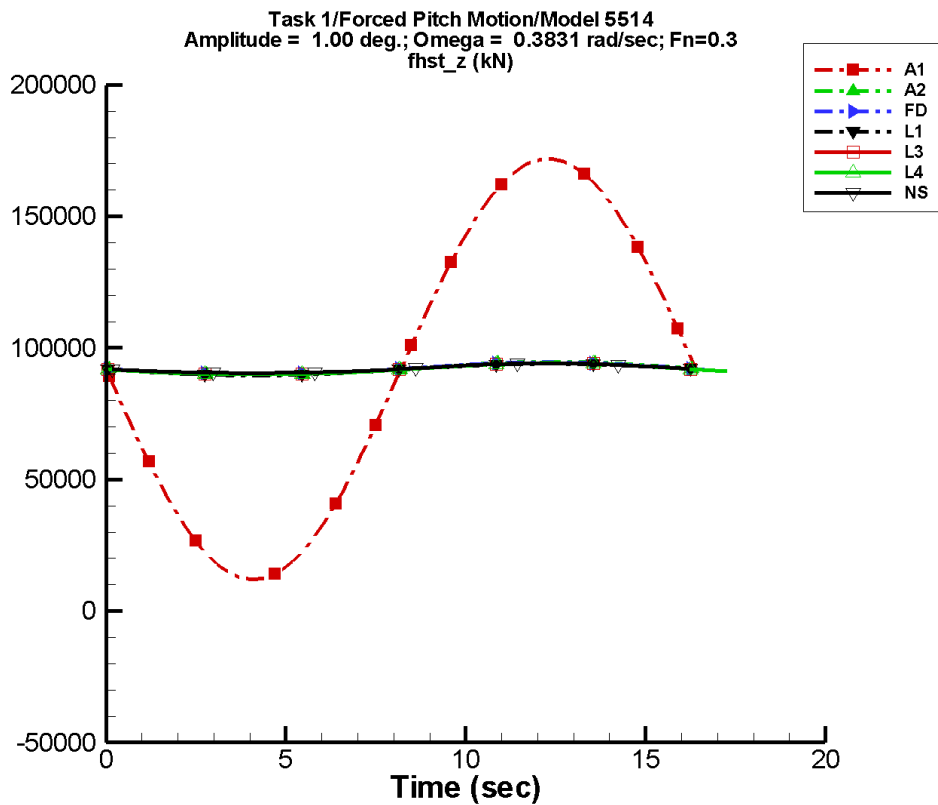
Table F-339. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	-180	128.	104
A2	9.75E+04	6.25E+03	-180	5.63E+03	-93
FD	9.73E+04	6.77E+03	-179	5.25E+03	-88
L1	9.16E+04	1.11E+04	179	172.	89
L3	9.71E+04	6.59E+03	180	5.41E+03	-92
L4	9.71E+04	6.59E+03	180	5.41E+03	-92
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F-340. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-3.06E+05	4.88E+05
A2	8.95E+04	1.08E+05	8.96E+04	1.08E+05
FD	8.99E+04	1.07E+05	9.00E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.04E+04	1.02E+05
L3	8.98E+04	1.07E+05	8.98E+04	1.07E+05
L4	8.98E+04	1.07E+05	8.98E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-171. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

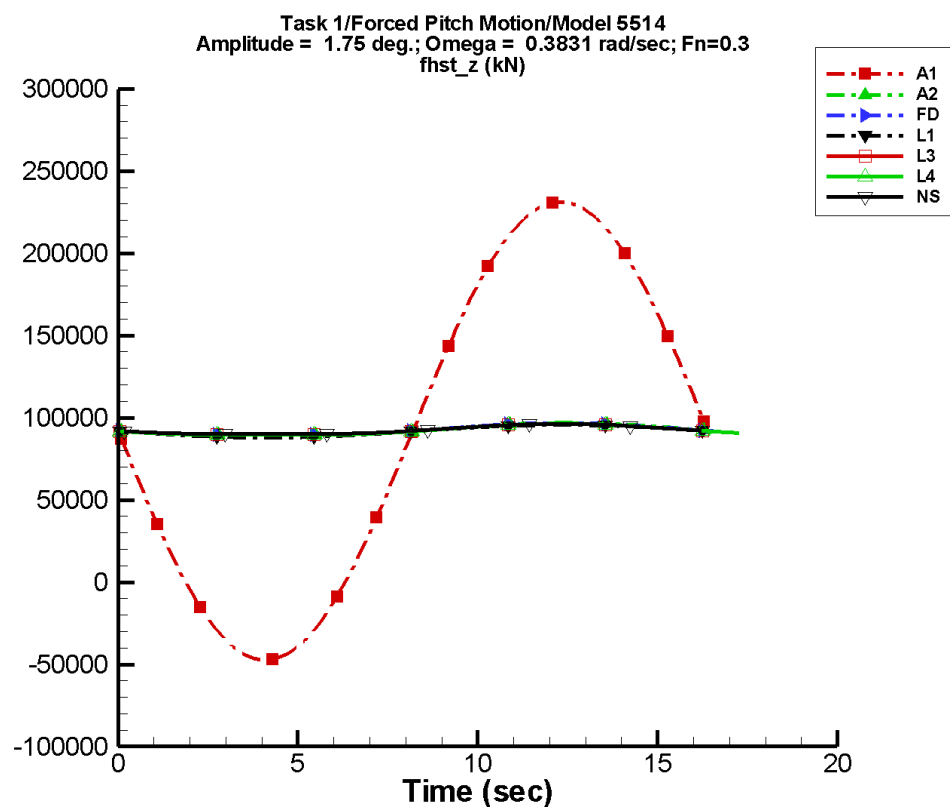
Table F-341. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	-180	6.61	92
A2	9.21E+04	2.54E+03	178	141.	-97
FD	9.22E+04	2.19E+03	-180	187.	-90
L1	9.18E+04	2.22E+03	179	6.98	87
L3	9.20E+04	2.14E+03	179	188.	-93
L4	9.20E+04	2.14E+03	179	188.	-93
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	180	198.	-90

Table F-342. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.18E+04	1.72E+05
A2	8.97E+04	9.47E+04	8.98E+04	9.47E+04
FD	9.02E+04	9.46E+04	9.02E+04	9.45E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.00E+04	9.43E+04
L4	9.00E+04	9.43E+04	9.00E+04	9.43E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-172. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

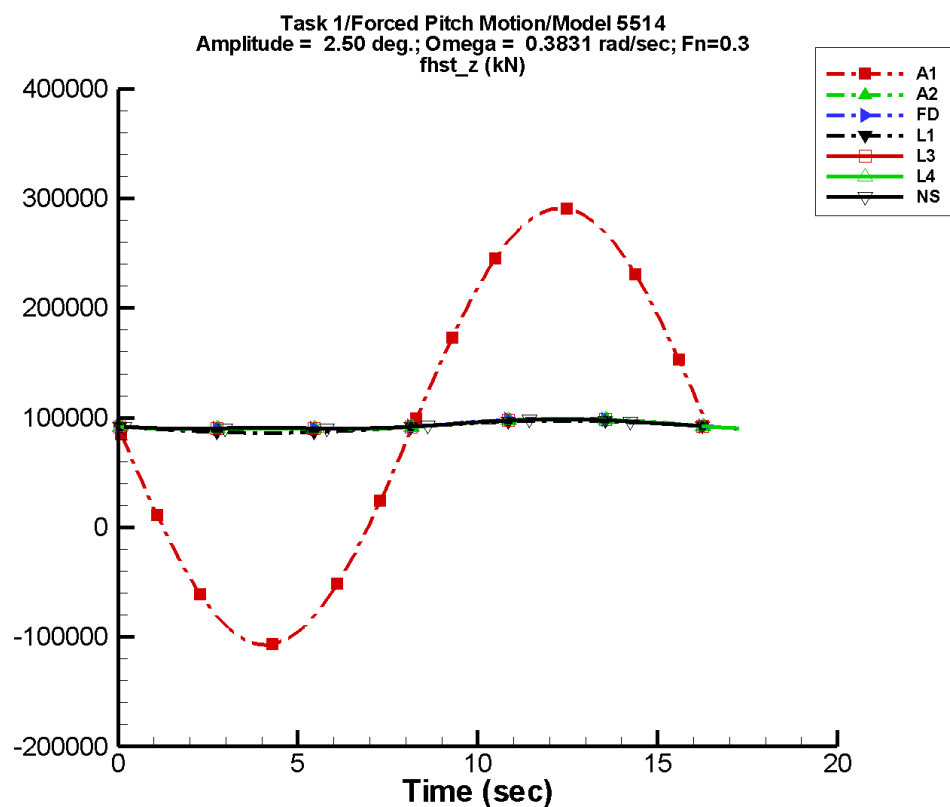
Table F-343. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	-180	19.1	94
A2	9.26E+04	3.87E+03	178	713.	-97
FD	9.27E+04	3.55E+03	-180	690.	-89
L1	9.18E+04	3.88E+03	179	21.4	87
L3	9.24E+04	3.47E+03	179	693.	-94
L4	9.24E+04	3.47E+03	179	693.	-94
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	-180	635.	-90

Table F-344. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.77E+04	2.31E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.69E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.68E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.65E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.65E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-173. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

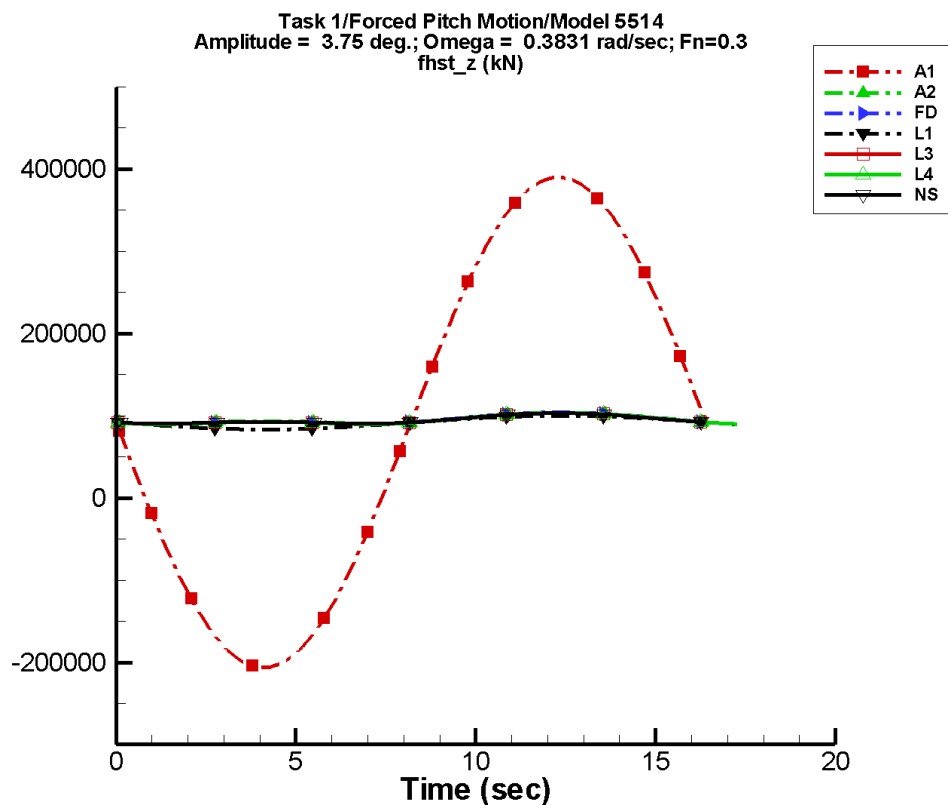
Table F–345. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	-180	37.0	96
A2	9.34E+04	4.69E+03	178	1.66E+03	-96
FD	9.34E+04	4.65E+03	-180	1.47E+03	-89
L1	9.18E+04	5.54E+03	179	43.6	88
L3	9.32E+04	4.55E+03	179	1.47E+03	-94
L4	9.32E+04	4.55E+03	179	1.47E+03	-94
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–346. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.08E+05	2.90E+05
A2	8.95E+04	9.92E+04	8.96E+04	9.92E+04
FD	8.99E+04	9.93E+04	8.99E+04	9.93E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.89E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.89E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-174. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

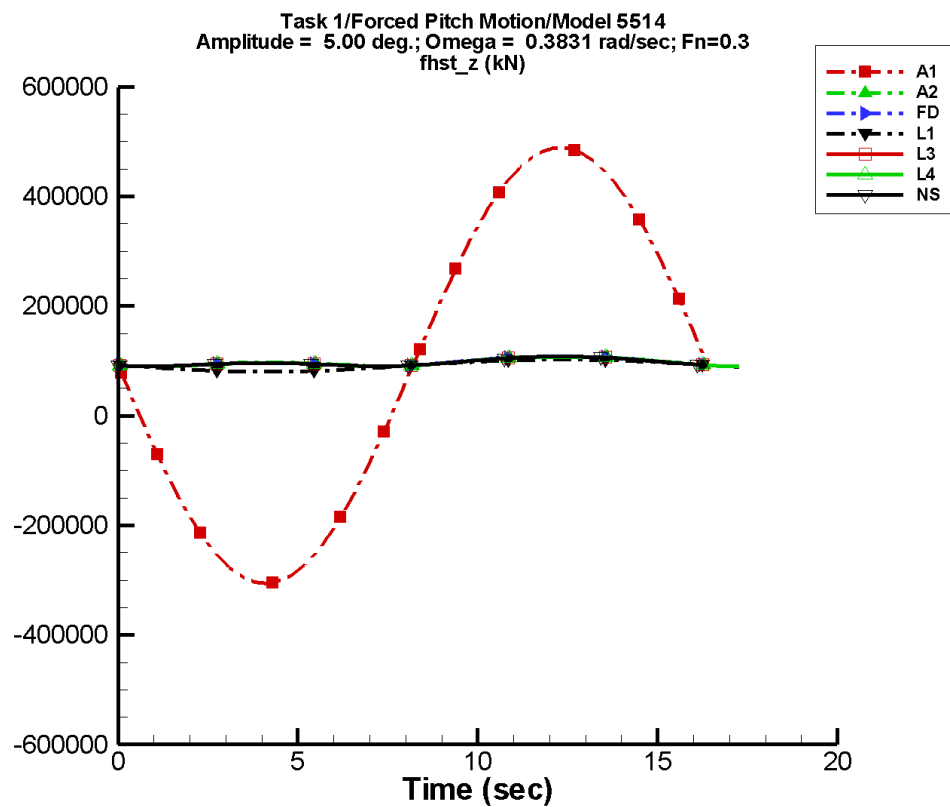
Table F-347. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	-180	76.1	100
A2	9.53E+04	5.71E+03	179	3.58E+03	-95
FD	9.51E+04	6.10E+03	-179	3.24E+03	-89
L1	9.17E+04	8.31E+03	179	98.0	88
L3	9.49E+04	5.96E+03	179	3.26E+03	-94
L4	9.49E+04	5.96E+03	179	3.26E+03	-94
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F-348. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-2.07E+05	3.89E+05
A2	8.95E+04	1.04E+05	8.96E+04	1.04E+05
FD	8.99E+04	1.04E+05	9.00E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.33E+04	9.99E+04
L3	8.98E+04	1.04E+05	8.98E+04	1.04E+05
L4	8.98E+04	1.04E+05	8.98E+04	1.04E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-175. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

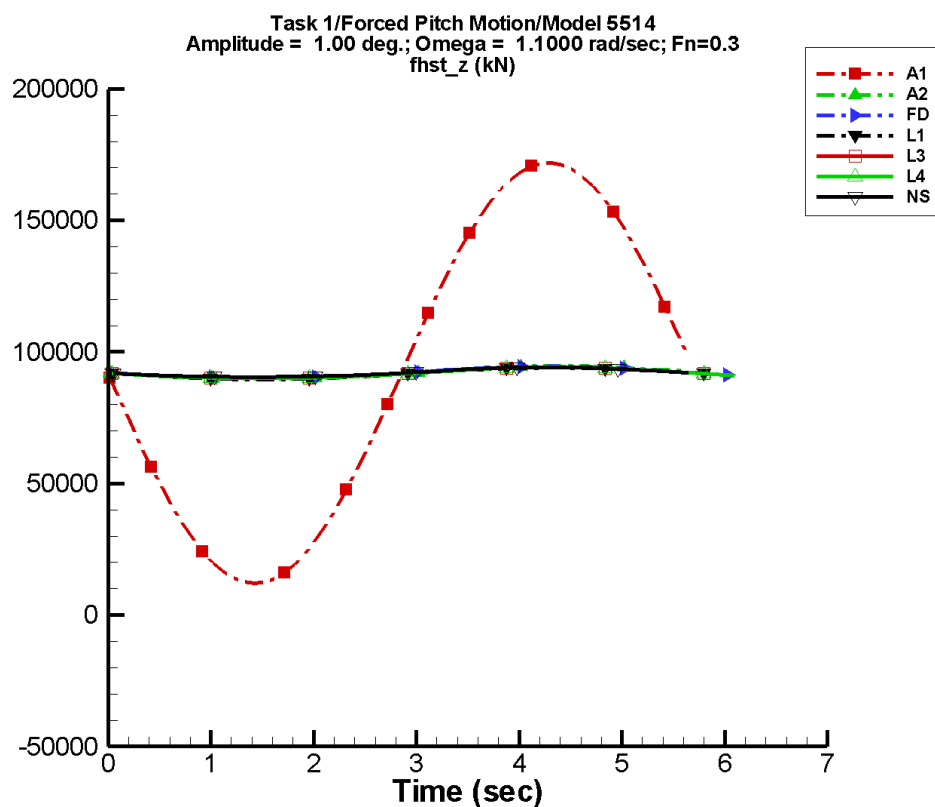
Table F–349. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	-180	124.	105
A2	9.76E+04	6.23E+03	179	5.64E+03	-95
FD	9.73E+04	6.73E+03	-179	5.15E+03	-89
L1	9.16E+04	1.11E+04	179	174.	88
L3	9.71E+04	6.65E+03	180	5.26E+03	-94
L4	9.71E+04	6.65E+03	180	5.26E+03	-94
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F–350. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-3.07E+05	4.87E+05
A2	8.95E+04	1.08E+05	8.98E+04	1.08E+05
FD	8.99E+04	1.07E+05	9.00E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.04E+04	1.02E+05
L3	8.98E+04	1.07E+05	8.98E+04	1.07E+05
L4	8.98E+04	1.07E+05	8.98E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-176. Time history of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

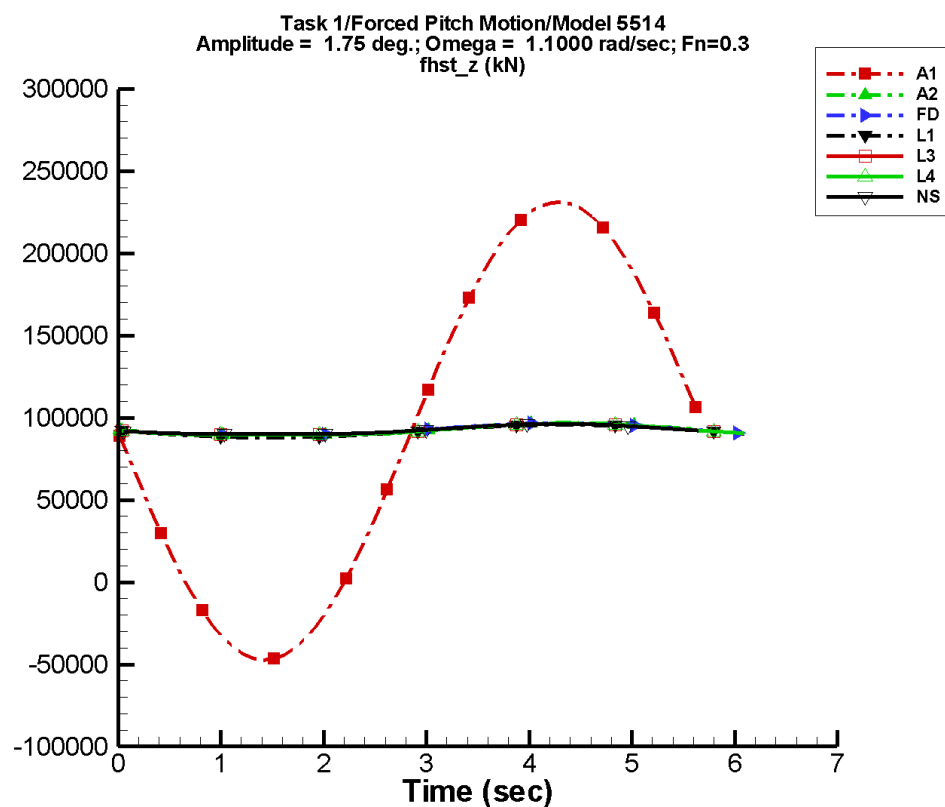
Table F–351. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.20E+04	7.99E+04	180	6.69	93
A2	9.21E+04	2.54E+03	174	140.	-106
FD	9.22E+04	2.19E+03	-180	191.	-90
L1	9.18E+04	2.22E+03	176	6.97	82
L3	9.20E+04	2.14E+03	176	193.	-98
L4	9.20E+04	2.14E+03	176	193.	-98
NF	—	—	—	—	—
NS	9.22E+04	1.88E+03	180	198.	-90

Table F–352. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.72E+05	1.40E+04	1.69E+05
A2	8.98E+04	9.47E+04	8.98E+04	9.46E+04
FD	9.02E+04	9.46E+04	9.03E+04	9.45E+04
L1	8.96E+04	9.40E+04	8.96E+04	9.40E+04
L3	9.00E+04	9.43E+04	9.01E+04	9.42E+04
L4	9.00E+04	9.43E+04	9.01E+04	9.42E+04
NF	—	—	—	—
NS	9.05E+04	9.42E+04	9.05E+04	9.42E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-177. Time history of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

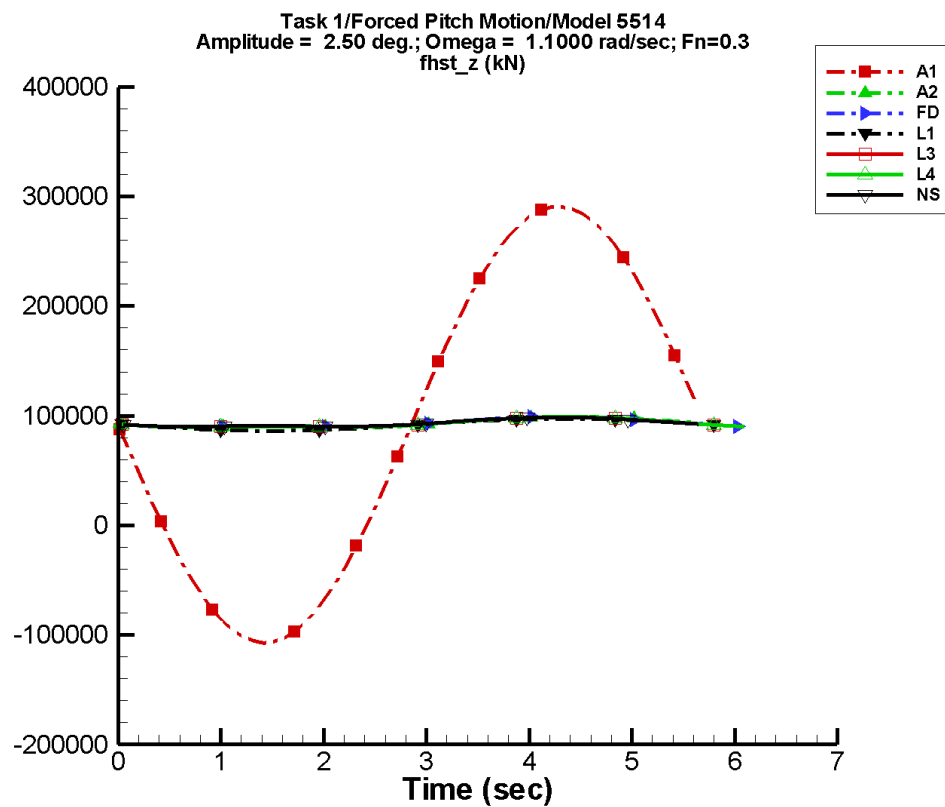
Table F–353. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.39E+05	180	19.5	95
A2	9.26E+04	3.88E+03	174	697.	-106
FD	9.27E+04	3.56E+03	-180	709.	-90
L1	9.18E+04	3.88E+03	176	21.3	82
L3	9.24E+04	3.46E+03	176	719.	-98
L4	9.24E+04	3.46E+03	176	719.	-98
NF	—	—	—	—	—
NS	9.26E+04	3.14E+03	-180	635.	-90

Table F–354. Minimum and maximum of F_z^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.73E+04	2.31E+05	-4.40E+04	2.27E+05
A2	8.95E+04	9.69E+04	8.95E+04	9.68E+04
FD	8.99E+04	9.68E+04	8.99E+04	9.66E+04
L1	8.79E+04	9.56E+04	8.79E+04	9.56E+04
L3	8.98E+04	9.65E+04	8.98E+04	9.64E+04
L4	8.98E+04	9.65E+04	8.98E+04	9.64E+04
NF	—	—	—	—
NS	9.02E+04	9.63E+04	9.02E+04	9.62E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-178. Time history of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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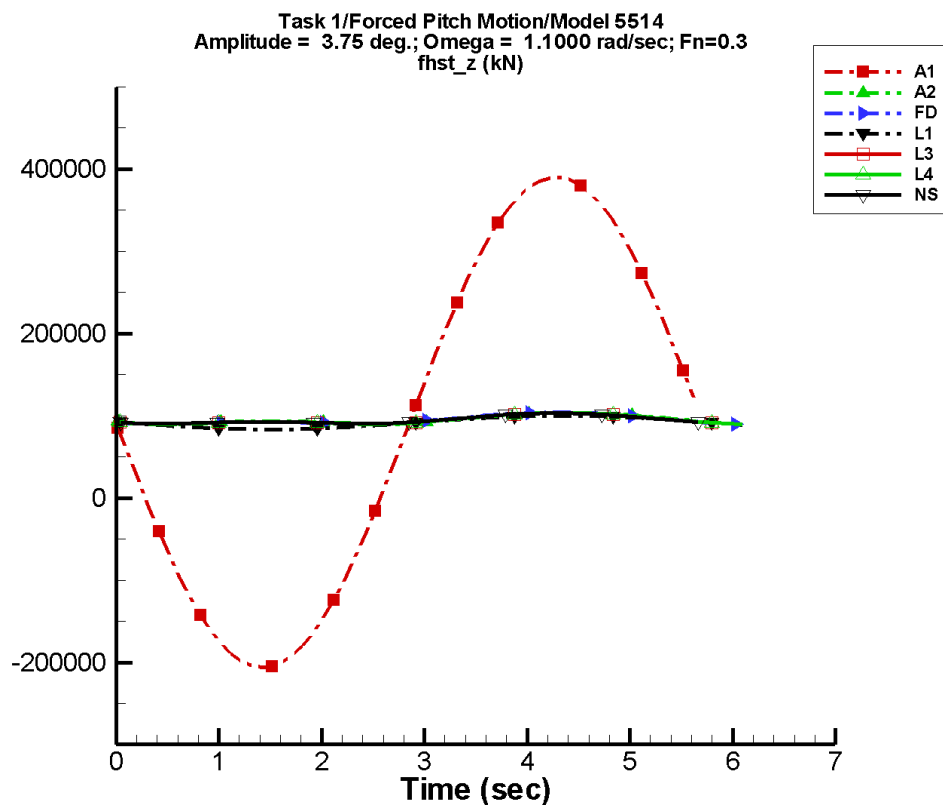
Table F–355. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	1.99E+05	180	38.1	96
A2	9.34E+04	4.71E+03	174	1.63E+03	-105
FD	9.34E+04	4.67E+03	-180	1.51E+03	-90
L1	9.18E+04	5.54E+03	176	43.3	82
L3	9.32E+04	4.53E+03	176	1.52E+03	-98
L4	9.32E+04	4.53E+03	176	1.52E+03	-98
NF	—	—	—	—	—
NS	9.33E+04	4.16E+03	180	1.35E+03	-90

Table F–356. Minimum and maximum of F_z^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+05	2.91E+05	-1.02E+05	2.85E+05
A2	8.95E+04	9.92E+04	8.99E+04	9.90E+04
FD	8.99E+04	9.93E+04	9.00E+04	9.90E+04
L1	8.62E+04	9.72E+04	8.62E+04	9.72E+04
L3	8.98E+04	9.89E+04	8.98E+04	9.88E+04
L4	8.98E+04	9.89E+04	8.98E+04	9.88E+04
NF	—	—	—	—
NS	9.02E+04	9.86E+04	9.02E+04	9.86E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-179. Time history of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

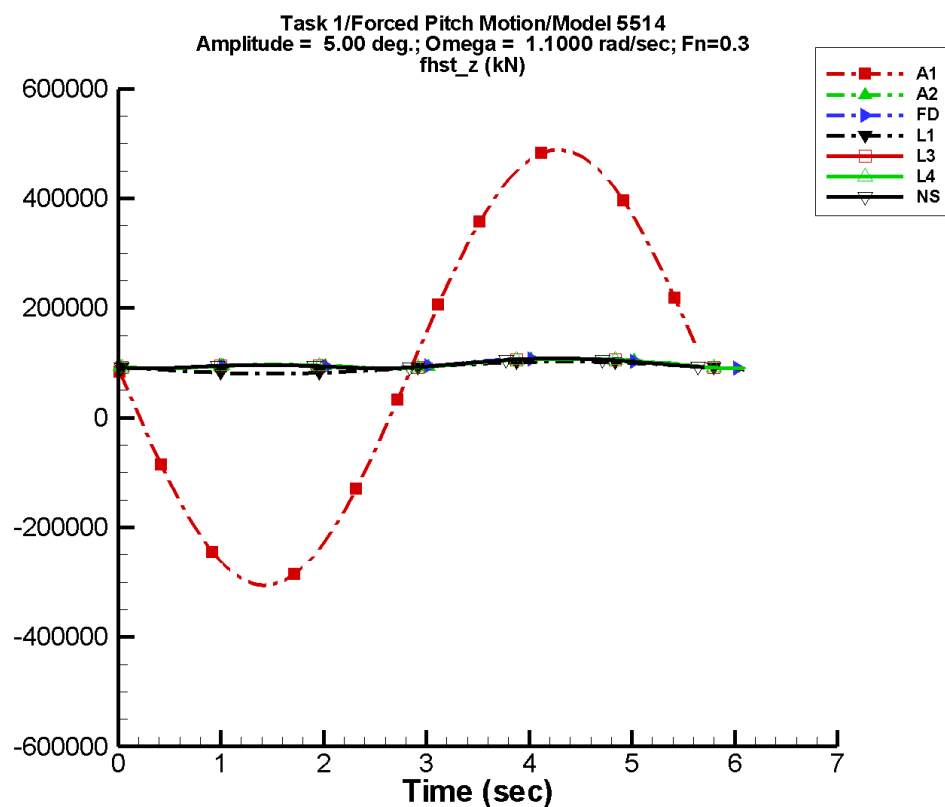
Table F–357. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.19E+04	2.98E+05	180	79.6	100
A2	9.53E+04	5.73E+03	174	3.55E+03	-104
FD	9.51E+04	6.13E+03	-180	3.33E+03	-90
L1	9.17E+04	8.30E+03	176	97.1	82
L3	9.49E+04	5.93E+03	176	3.35E+03	-98
L4	9.49E+04	5.93E+03	176	3.35E+03	-98
NF	—	—	—	—	—
NS	9.50E+04	5.53E+03	180	3.02E+03	-90

Table F–358. Minimum and maximum of F_z^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.06E+05	3.90E+05	-1.99E+05	3.81E+05
A2	8.95E+04	1.04E+05	9.04E+04	1.03E+05
FD	8.99E+04	1.04E+05	9.04E+04	1.04E+05
L1	8.33E+04	9.99E+04	8.34E+04	9.98E+04
L3	8.98E+04	1.04E+05	9.00E+04	1.03E+05
L4	8.98E+04	1.04E+05	9.00E+04	1.03E+05
NF	—	—	—	—
NS	9.02E+04	1.03E+05	9.03E+04	1.03E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-180. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

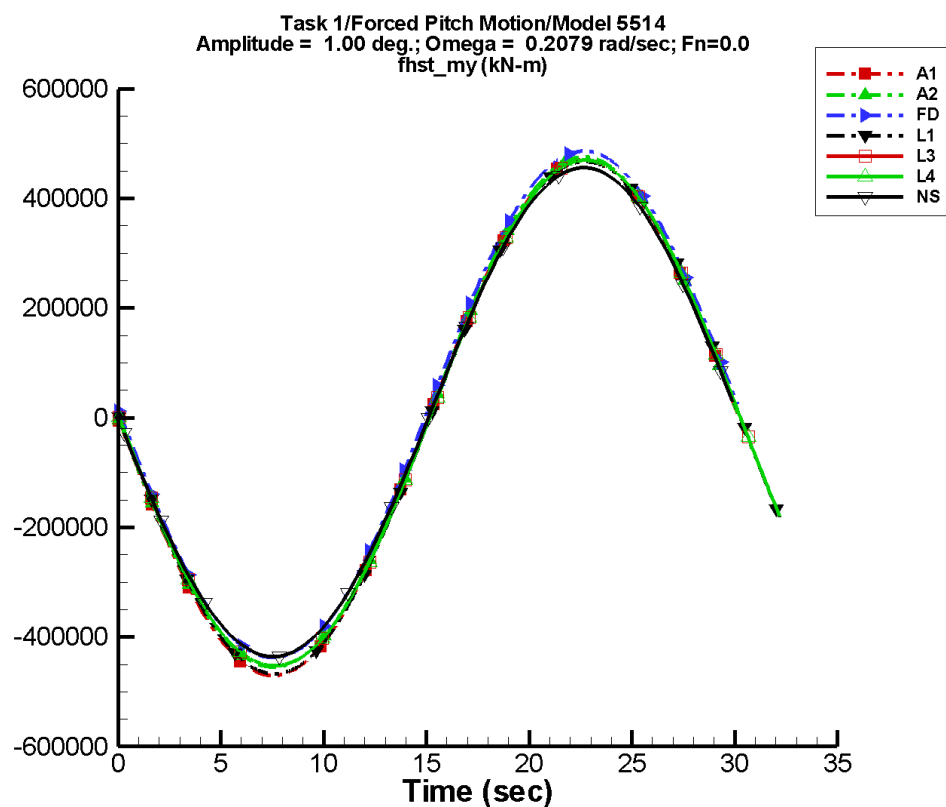
Table F–359. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.18E+04	3.98E+05	180	132.	104
A2	9.75E+04	6.24E+03	175	5.60E+03	-104
FD	9.73E+04	6.78E+03	-180	5.36E+03	-90
L1	9.16E+04	1.11E+04	176	172.	82
L3	9.71E+04	6.60E+03	176	5.45E+03	-98
L4	9.71E+04	6.60E+03	176	5.45E+03	-98
NF	—	—	—	—	—
NS	9.72E+04	6.57E+03	180	5.16E+03	-90

Table F–360. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.06E+05	4.89E+05	-2.96E+05	4.77E+05
A2	8.96E+04	1.08E+05	9.10E+04	1.07E+05
FD	8.99E+04	1.07E+05	9.08E+04	1.07E+05
L1	8.04E+04	1.02E+05	8.05E+04	1.02E+05
L3	8.98E+04	1.07E+05	9.02E+04	1.07E+05
L4	8.98E+04	1.07E+05	9.02E+04	1.07E+05
NF	—	—	—	—
NS	9.02E+04	1.08E+05	9.03E+04	1.08E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-181. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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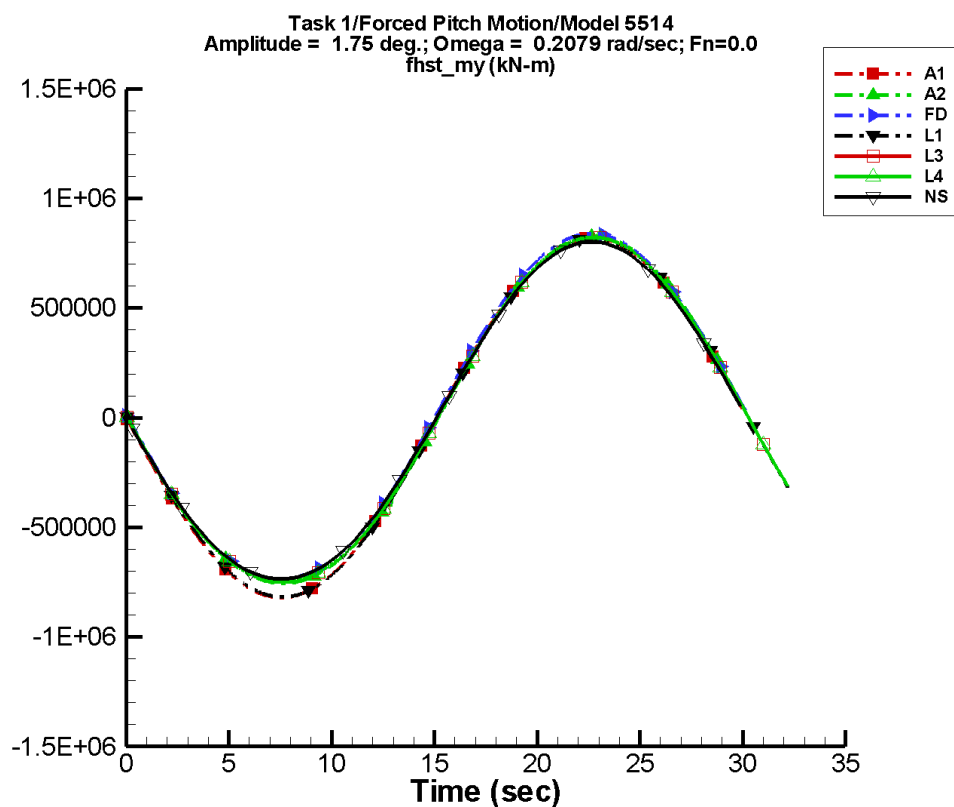
Table F–361. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	5.22E+03	4.67E+05	-180	4.90E+03	-92
FD	2.02E+04	4.64E+05	-180	3.94E+03	-88
L1	0.550	4.67E+05	179	2.52E-02	167
L3	4.16E+03	4.63E+05	179	4.24E+03	-92
L4	4.16E+03	4.63E+05	179	4.24E+03	-92
NF	—	—	—	—	—
NS	5.40E+03	4.46E+05	-180	5.01E+03	-90

Table F–362. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.76E+05	-4.55E+05	4.75E+05
FD	-4.38E+05	4.87E+05	-4.37E+05	4.86E+05
L1	-4.67E+05	4.67E+05	-4.67E+05	4.67E+05
L3	-4.53E+05	4.70E+05	-4.52E+05	4.70E+05
L4	-4.53E+05	4.70E+05	-4.52E+05	4.70E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.52E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-182. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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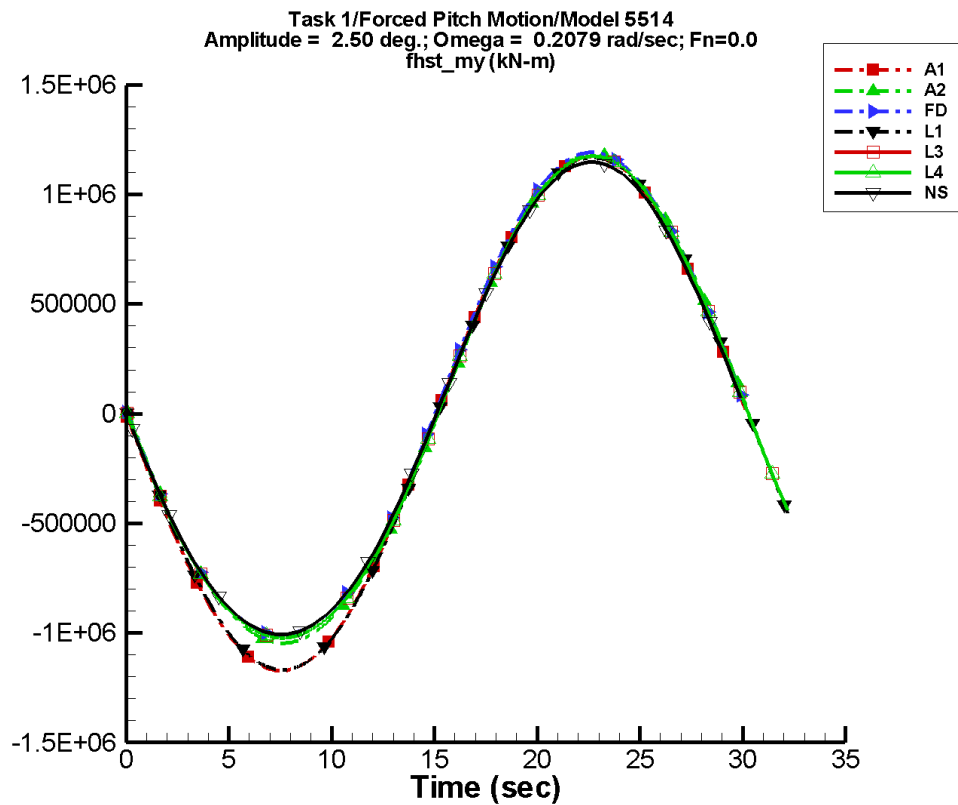
Table F-363. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.76E+04	7.98E+05	179	1.97E+04	-94
FD	3.25E+04	7.95E+05	-180	1.92E+04	-88
L1	1.01	8.18E+05	179	0.116	98
L3	1.64E+04	7.93E+05	179	2.04E+04	-92
L4	1.64E+04	7.93E+05	179	2.04E+04	-92
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F-364. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.29E+05	-7.55E+05	8.28E+05
FD	-7.36E+05	8.40E+05	-7.35E+05	8.39E+05
L1	-8.18E+05	8.18E+05	-8.17E+05	8.17E+05
L3	-7.50E+05	8.23E+05	-7.49E+05	8.22E+05
L4	-7.50E+05	8.23E+05	-7.49E+05	8.22E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-183. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

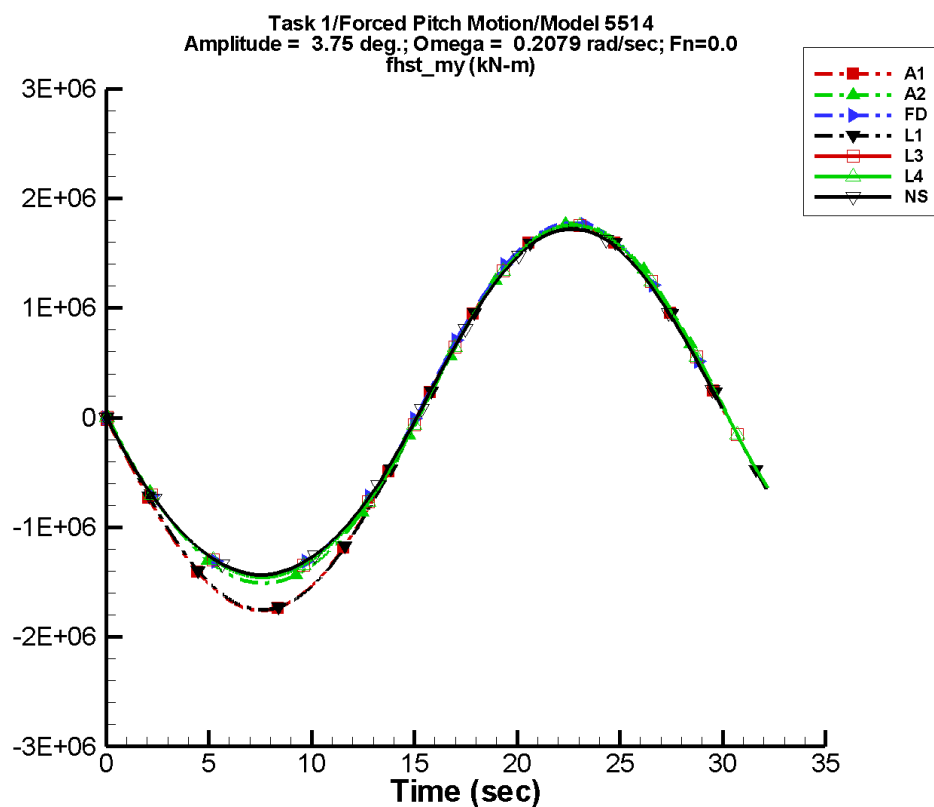
Table F-365. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	179	3.73E+04	-93
FD	5.24E+04	1.11E+06	-180	4.11E+04	-88
L1	1.11	1.17E+06	179	0.307	157
L3	3.63E+04	1.11E+06	179	4.30E+04	-92
L4	3.63E+04	1.11E+06	179	4.30E+04	-92
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	-180	3.57E+04	-90

Table F-366. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.05E+06	1.19E+06
FD	-1.01E+06	1.19E+06	-1.01E+06	1.19E+06
L1	-1.17E+06	1.17E+06	-1.17E+06	1.17E+06
L3	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
L4	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.99E+05	1.14E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-184. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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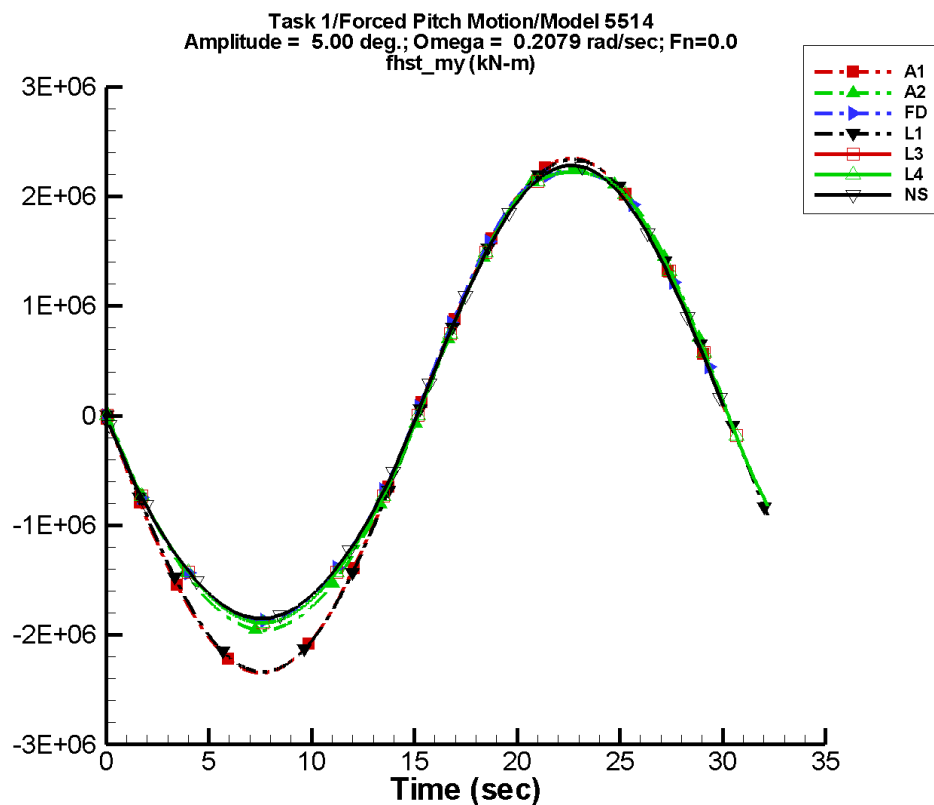
Table F-367. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.00E+04	1.66E+06	179	6.87E+04	-93
FD	9.42E+04	1.63E+06	-180	8.14E+04	-88
L1	-5.65E-02	1.75E+06	179	0.840	81
L3	7.79E+04	1.63E+06	179	8.32E+04	-92
L4	7.79E+04	1.63E+06	179	8.32E+04	-92
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	180	7.31E+04	-90

Table F-368. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.51E+06	1.77E+06
FD	-1.44E+06	1.78E+06	-1.44E+06	1.77E+06
L1	-1.75E+06	1.75E+06	-1.75E+06	1.75E+06
L3	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
L4	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-185. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

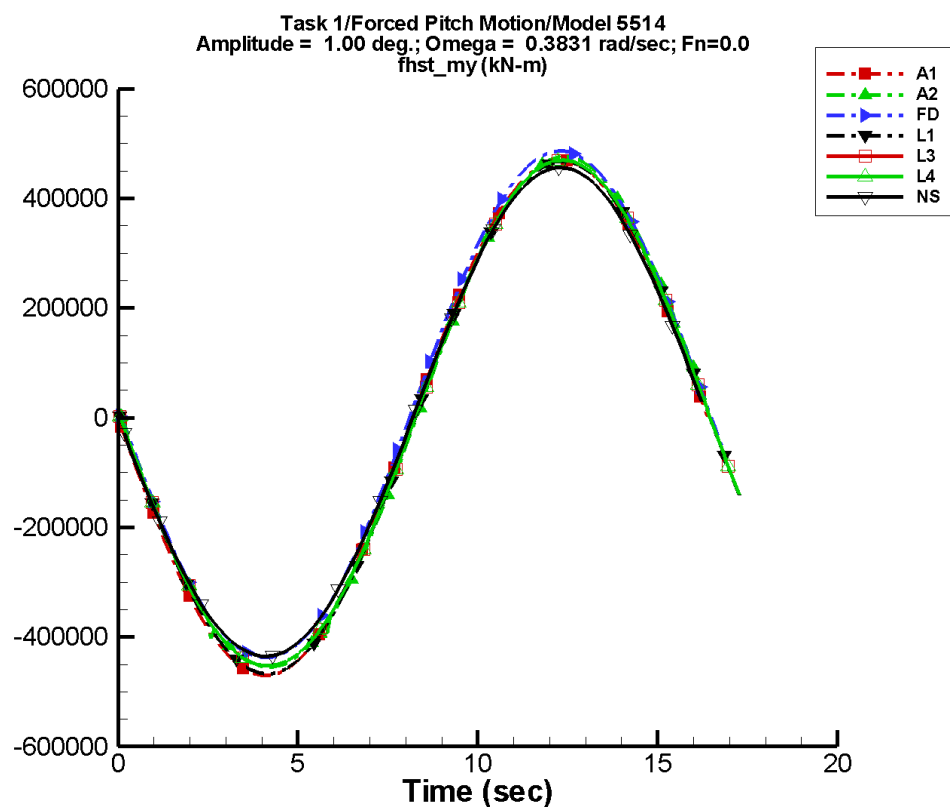
Table F–369. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.86E+04	2.15E+06	179	8.50E+04	-92
FD	1.24E+05	2.11E+06	-180	9.62E+04	-86
L1	2.94	2.34E+06	179	1.49	95
L3	1.10E+05	2.11E+06	179	1.01E+05	-92
L4	1.10E+05	2.11E+06	179	1.01E+05	-92
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F–370. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.95E+06	2.25E+06
FD	-1.87E+06	2.22E+06	-1.87E+06	2.22E+06
L1	-2.34E+06	2.34E+06	-2.34E+06	2.34E+06
L3	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
L4	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-186. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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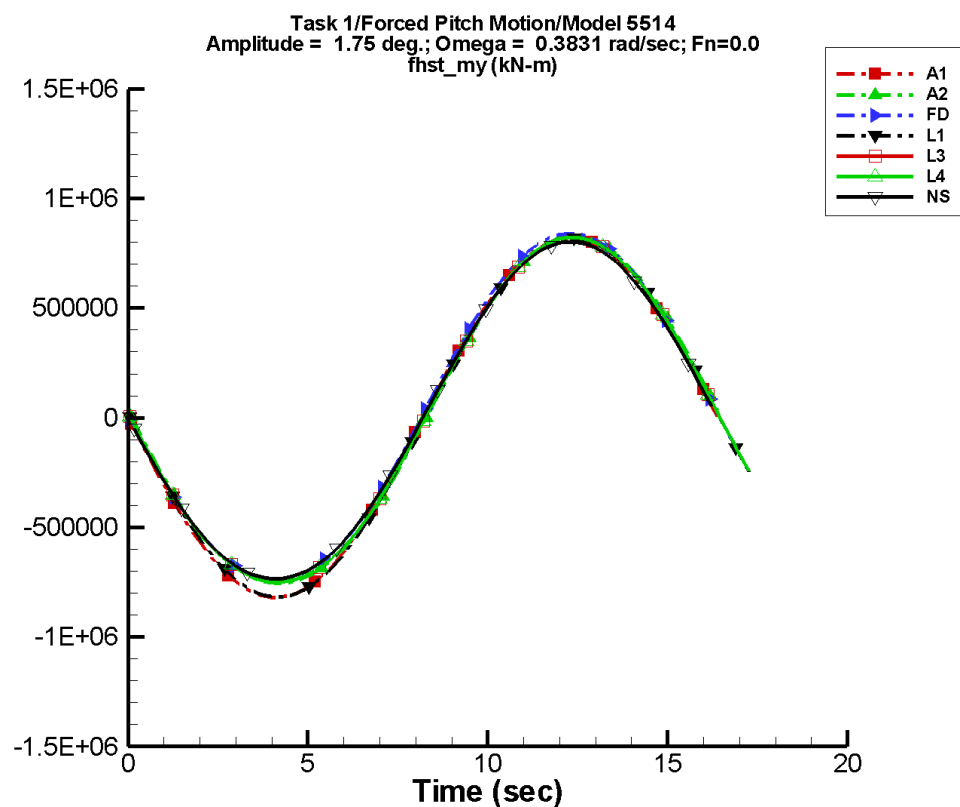
Table F-371. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.90E+03	4.67E+05	178	4.68E+03	-97
FD	2.02E+04	4.63E+05	-180	3.86E+03	-89
L1	-2.92	4.67E+05	179	7.63E-02	-91
L3	4.17E+03	4.63E+05	179	3.93E+03	-95
L4	4.17E+03	4.63E+05	179	3.93E+03	-95
NF	—	—	—	—	—
NS	5.39E+03	4.46E+05	180	5.01E+03	-90

Table F-372. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.76E+05	-4.55E+05	4.74E+05
FD	-4.37E+05	4.87E+05	-4.36E+05	4.85E+05
L1	-4.67E+05	4.67E+05	-4.67E+05	4.67E+05
L3	-4.53E+05	4.70E+05	-4.52E+05	4.69E+05
L4	-4.53E+05	4.70E+05	-4.52E+05	4.69E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.51E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-187. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

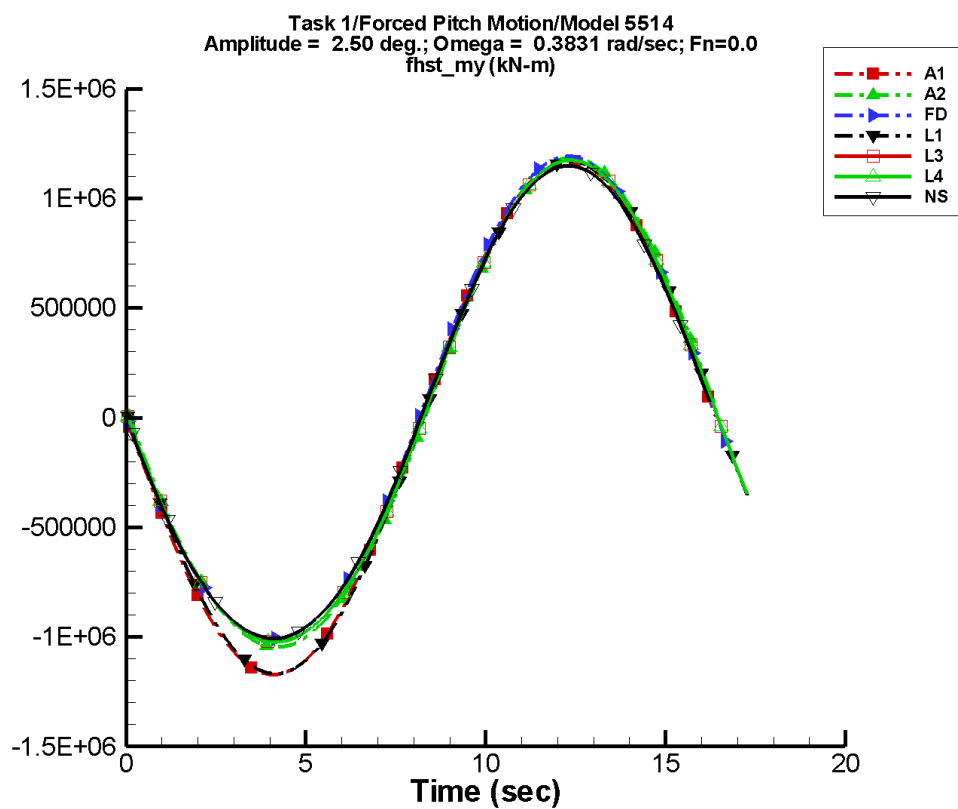
Table F-373. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.78E+04	7.98E+05	178	1.95E+04	-96
FD	3.24E+04	7.94E+05	-180	1.88E+04	-88
L1	-4.85	8.18E+05	179	0.114	-63
L3	1.65E+04	7.94E+05	179	1.88E+04	-95
L4	1.65E+04	7.94E+05	179	1.88E+04	-95
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F-374. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.29E+05	-7.56E+05	8.26E+05
FD	-7.36E+05	8.40E+05	-7.33E+05	8.37E+05
L1	-8.18E+05	8.18E+05	-8.17E+05	8.17E+05
L3	-7.50E+05	8.23E+05	-7.49E+05	8.21E+05
L4	-7.50E+05	8.23E+05	-7.49E+05	8.21E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-188. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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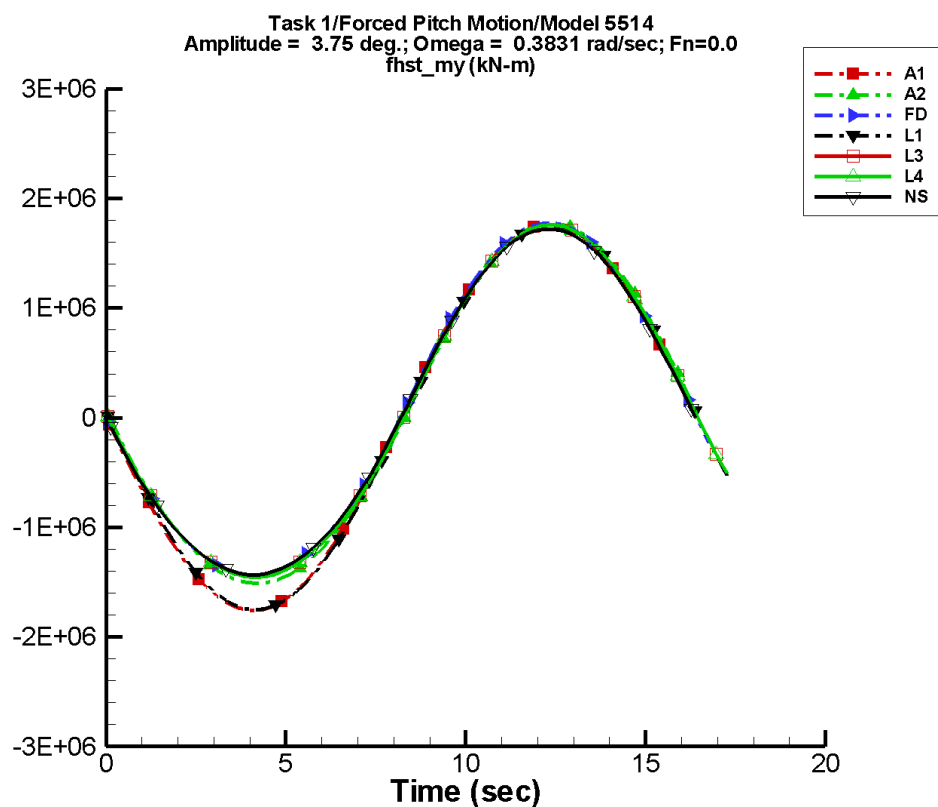
Table F-375. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	178	3.74E+04	-95
FD	5.22E+04	1.11E+06	-180	4.02E+04	-88
L1	-6.89	1.17E+06	179	0.138	-26
L3	3.63E+04	1.11E+06	179	4.03E+04	-95
L4	3.63E+04	1.11E+06	179	4.03E+04	-95
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	180	3.57E+04	-90

Table F-376. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.05E+06	1.18E+06
FD	-1.01E+06	1.19E+06	-1.00E+06	1.19E+06
L1	-1.17E+06	1.17E+06	-1.17E+06	1.17E+06
L3	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
L4	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.98E+05	1.14E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-189. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

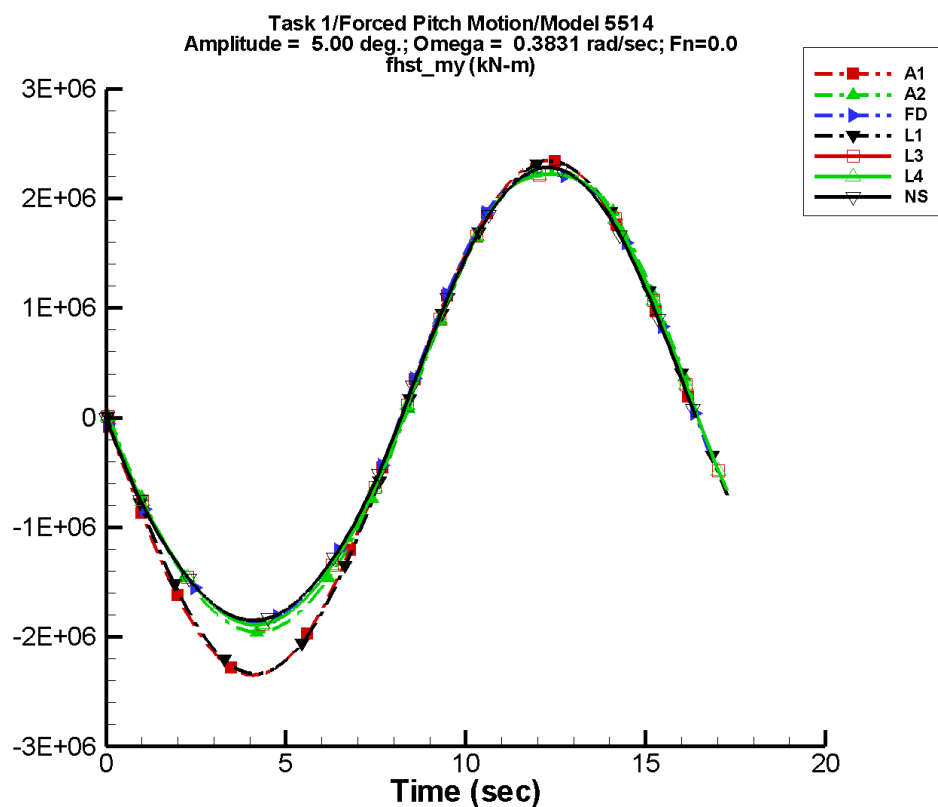
Table F-377. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.02E+04	1.66E+06	178	6.85E+04	-95
FD	9.39E+04	1.63E+06	-180	7.97E+04	-89
L1	-15.8	1.75E+06	179	0.633	-56
L3	7.78E+04	1.63E+06	179	7.96E+04	-94
L4	7.78E+04	1.63E+06	179	7.96E+04	-94
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	-180	7.31E+04	-90

Table F-378. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.51E+06	1.77E+06
FD	-1.44E+06	1.78E+06	-1.44E+06	1.77E+06
L1	-1.75E+06	1.75E+06	-1.75E+06	1.75E+06
L3	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
L4	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-190. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

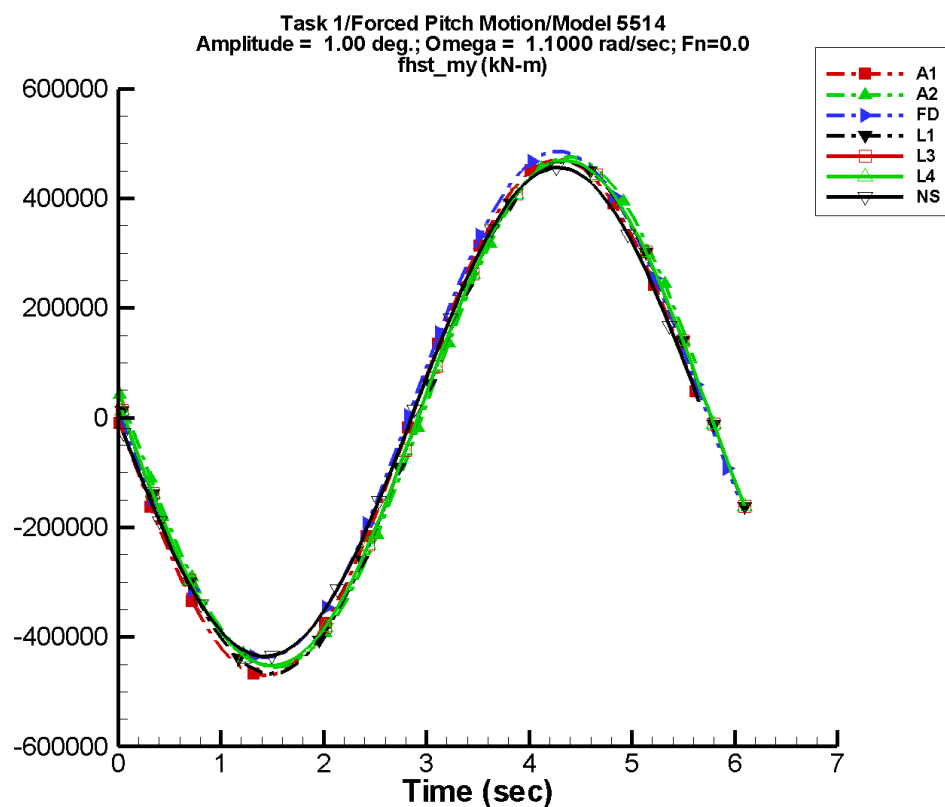
Table F–379. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.80E+04	2.15E+06	178	8.48E+04	-95
FD	1.24E+05	2.11E+06	-180	9.10E+04	-88
L1	-14.0	2.34E+06	179	0.359	58
L3	1.09E+05	2.11E+06	179	9.58E+04	-94
L4	1.09E+05	2.11E+06	179	9.58E+04	-94
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F–380. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.96E+06	2.24E+06
FD	-1.87E+06	2.22E+06	-1.87E+06	2.22E+06
L1	-2.34E+06	2.34E+06	-2.33E+06	2.33E+06
L3	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
L4	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-191. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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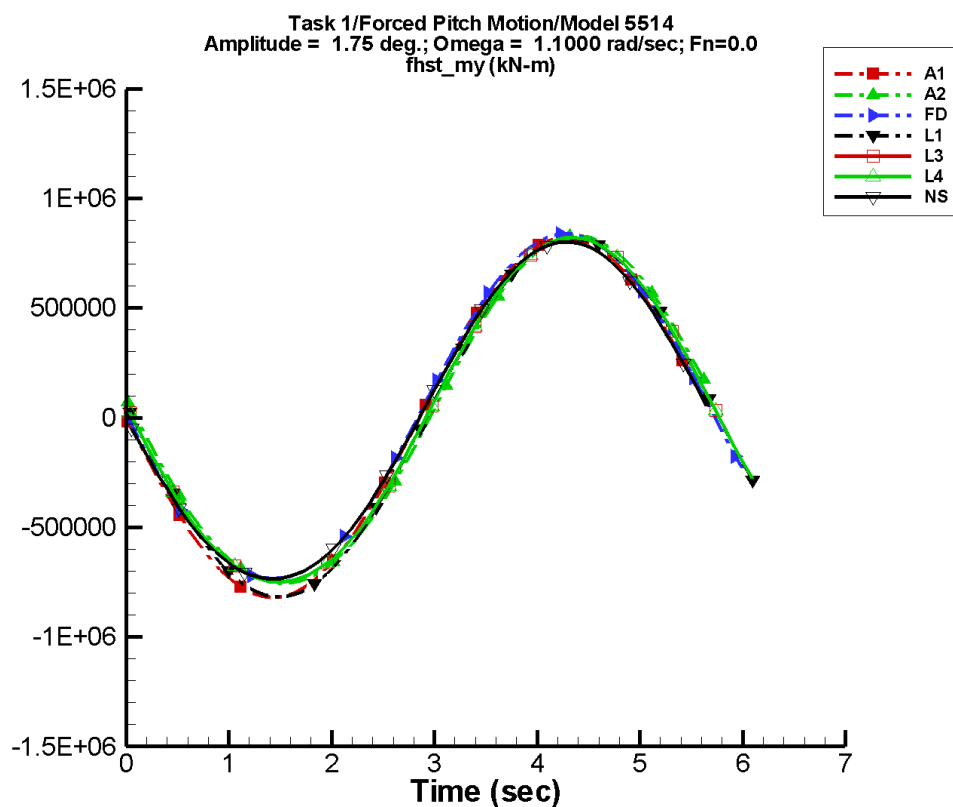
Table F–381. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	5.20E+03	4.67E+05	174	4.83E+03	-104
FD	2.02E+04	4.64E+05	-180	4.06E+03	-90
L1	-33.0	4.67E+05	176	7.60E-02	-130
L3	4.13E+03	4.63E+05	176	4.21E+03	-98
L4	4.13E+03	4.63E+05	176	4.21E+03	-98
NF	—	—	—	—	—
NS	5.39E+03	4.46E+05	180	5.01E+03	-90

Table F–382. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.75E+05	-4.41E+05	4.61E+05
FD	-4.38E+05	4.86E+05	-4.24E+05	4.72E+05
L1	-4.67E+05	4.67E+05	-4.62E+05	4.62E+05
L3	-4.52E+05	4.70E+05	-4.48E+05	4.64E+05
L4	-4.52E+05	4.70E+05	-4.48E+05	4.64E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.51E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-192. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

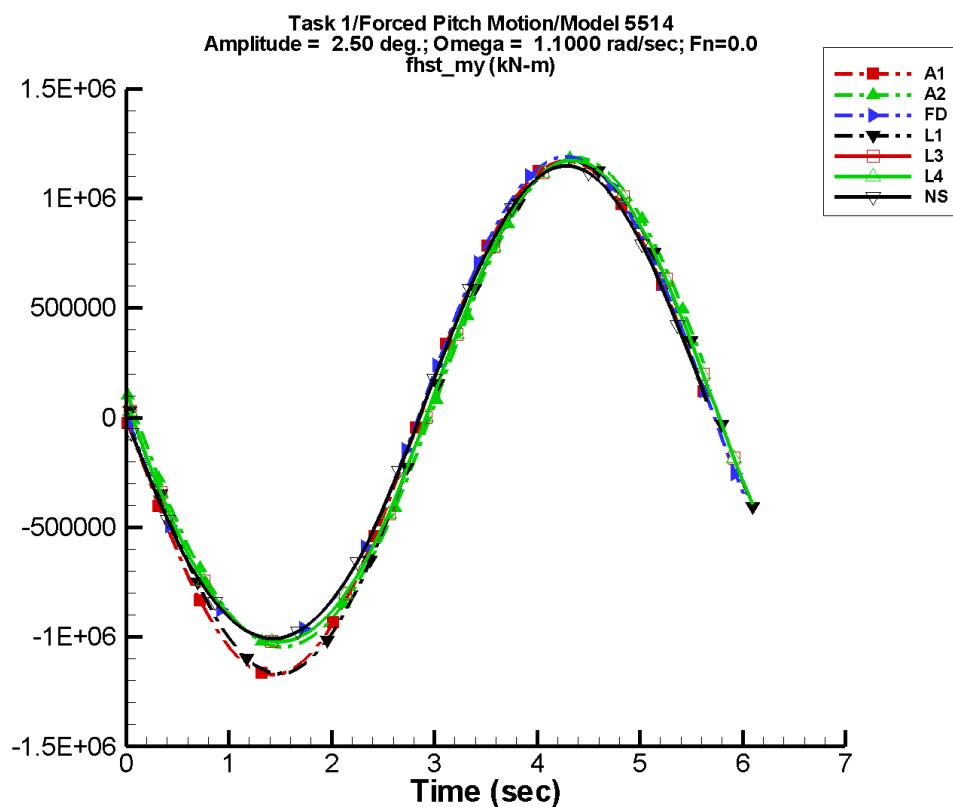
Table F–383. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.77E+04	7.98E+05	174	1.92E+04	-105
FD	3.24E+04	7.95E+05	-180	1.99E+04	-90
L1	-59.5	8.17E+05	176	0.115	-141
L3	1.64E+04	7.93E+05	176	2.03E+04	-98
L4	1.64E+04	7.93E+05	176	2.03E+04	-98
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F–384. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.28E+05	-7.33E+05	8.03E+05
FD	-7.36E+05	8.39E+05	-7.15E+05	8.14E+05
L1	-8.17E+05	8.17E+05	-8.08E+05	8.08E+05
L3	-7.50E+05	8.22E+05	-7.42E+05	8.13E+05
L4	-7.50E+05	8.22E+05	-7.42E+05	8.13E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-193. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

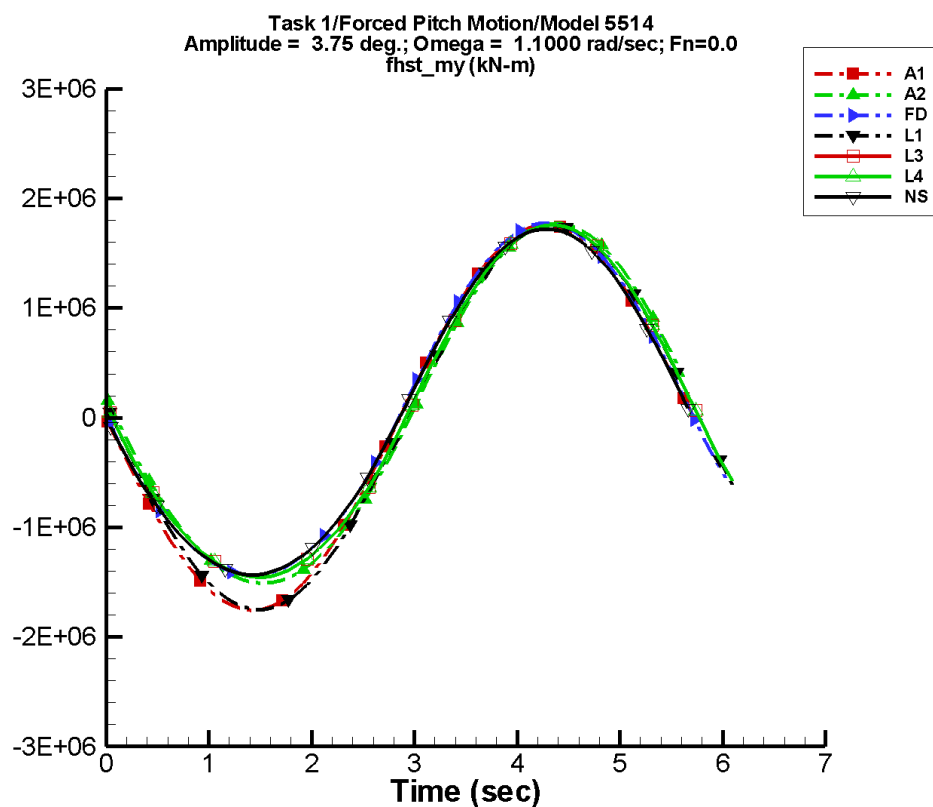
Table F–385. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	174	3.70E+04	-104
FD	5.23E+04	1.11E+06	-180	4.26E+04	-90
L1	-83.2	1.17E+06	176	0.291	101
L3	3.62E+04	1.11E+06	176	4.31E+04	-98
L4	3.62E+04	1.11E+06	176	4.31E+04	-98
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	180	3.57E+04	-90

Table F–386. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.02E+06	1.15E+06
FD	-1.01E+06	1.19E+06	-9.80E+05	1.16E+06
L1	-1.17E+06	1.17E+06	-1.15E+06	1.15E+06
L3	-1.02E+06	1.17E+06	-1.01E+06	1.16E+06
L4	-1.02E+06	1.17E+06	-1.01E+06	1.16E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.98E+05	1.14E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-194. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

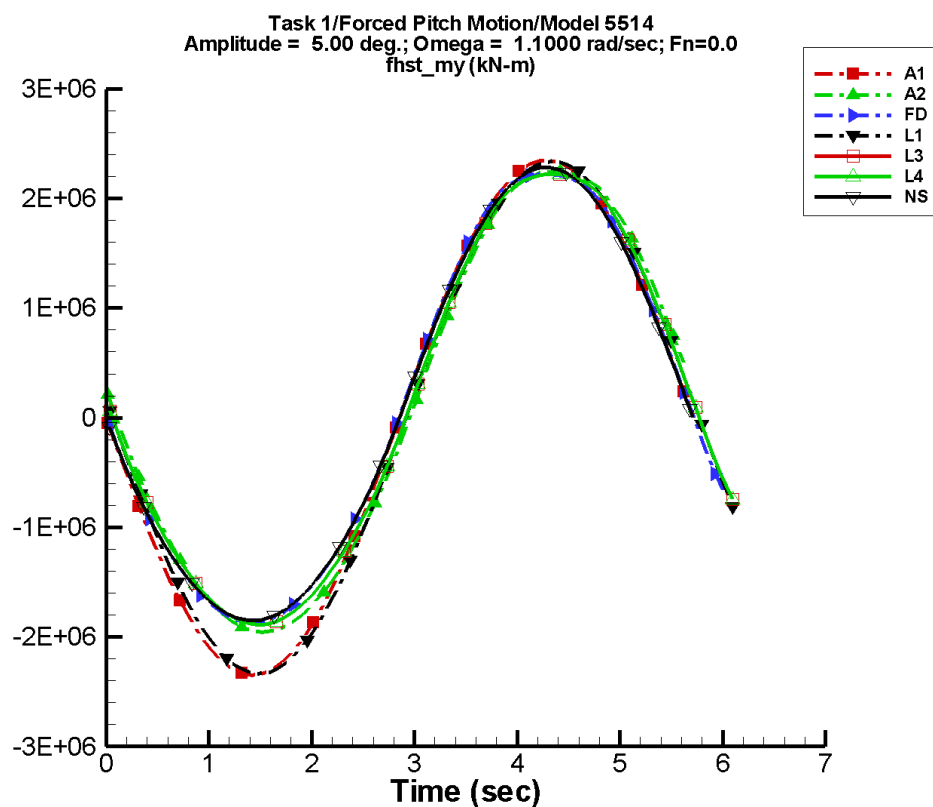
Table F–387. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.01E+04	1.66E+06	174	6.79E+04	-103
FD	9.38E+04	1.63E+06	-180	8.40E+04	-90
L1	-127.	1.75E+06	176	1.33	83
L3	7.73E+04	1.62E+06	176	8.42E+04	-98
L4	7.73E+04	1.62E+06	176	8.42E+04	-98
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	180	7.31E+04	-90

Table F–388. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.47E+06	1.72E+06
FD	-1.44E+06	1.77E+06	-1.40E+06	1.72E+06
L1	-1.75E+06	1.75E+06	-1.73E+06	1.73E+06
L3	-1.45E+06	1.76E+06	-1.44E+06	1.74E+06
L4	-1.45E+06	1.76E+06	-1.44E+06	1.74E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-195. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

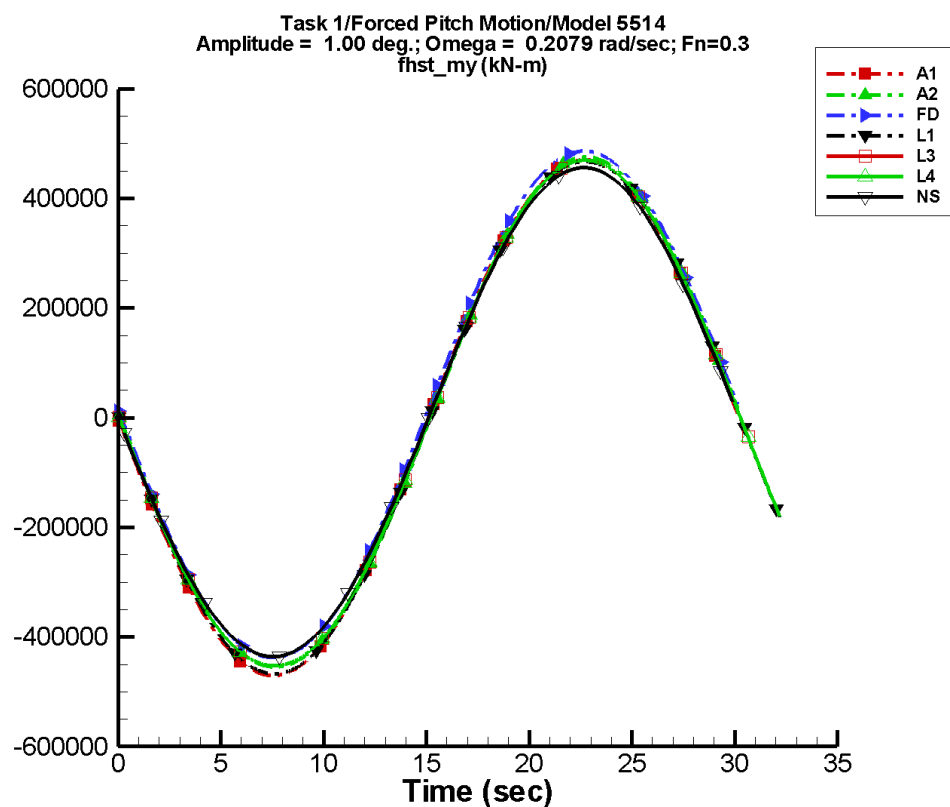
Table F–389. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.74E+04	2.15E+06	174	8.36E+04	-103
FD	1.23E+05	2.11E+06	-180	1.01E+05	-90
L1	-166.	2.34E+06	176	1.33	96
L3	1.08E+05	2.11E+06	176	1.04E+05	-98
L4	1.08E+05	2.11E+06	176	1.04E+05	-98
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F–390. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.90E+06	2.21E+06
FD	-1.87E+06	2.22E+06	-1.81E+06	2.19E+06
L1	-2.34E+06	2.34E+06	-2.31E+06	2.31E+06
L3	-1.89E+06	2.22E+06	-1.87E+06	2.21E+06
L4	-1.89E+06	2.22E+06	-1.87E+06	2.21E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

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Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-196. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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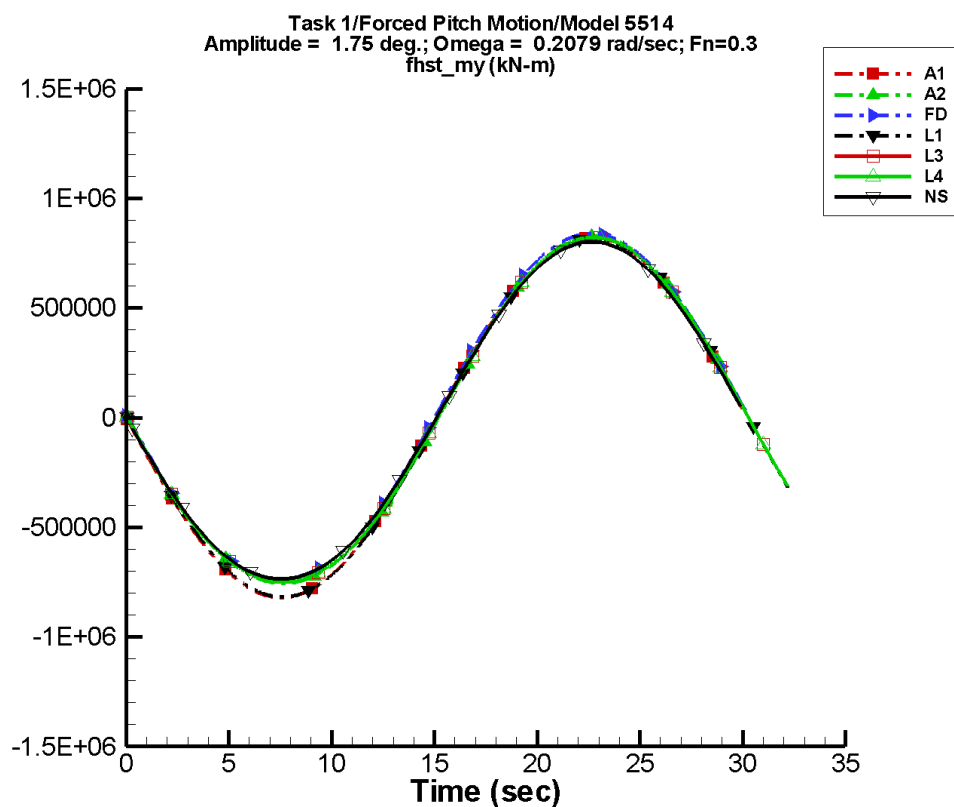
Table F-391. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	5.21E+03	4.67E+05	179	4.89E+03	-94
FD	2.02E+04	4.64E+05	-180	3.94E+03	-88
L1	0.550	4.67E+05	179	2.52E-02	167
L3	4.16E+03	4.63E+05	179	4.24E+03	-92
L4	4.16E+03	4.63E+05	179	4.24E+03	-92
NF	—	—	—	—	—
NS	5.40E+03	4.46E+05	-180	5.01E+03	-90

Table F-392. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.76E+05	-4.54E+05	4.75E+05
FD	-4.38E+05	4.87E+05	-4.37E+05	4.86E+05
L1	-4.67E+05	4.67E+05	-4.67E+05	4.67E+05
L3	-4.53E+05	4.70E+05	-4.52E+05	4.70E+05
L4	-4.53E+05	4.70E+05	-4.52E+05	4.70E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.52E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-197. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

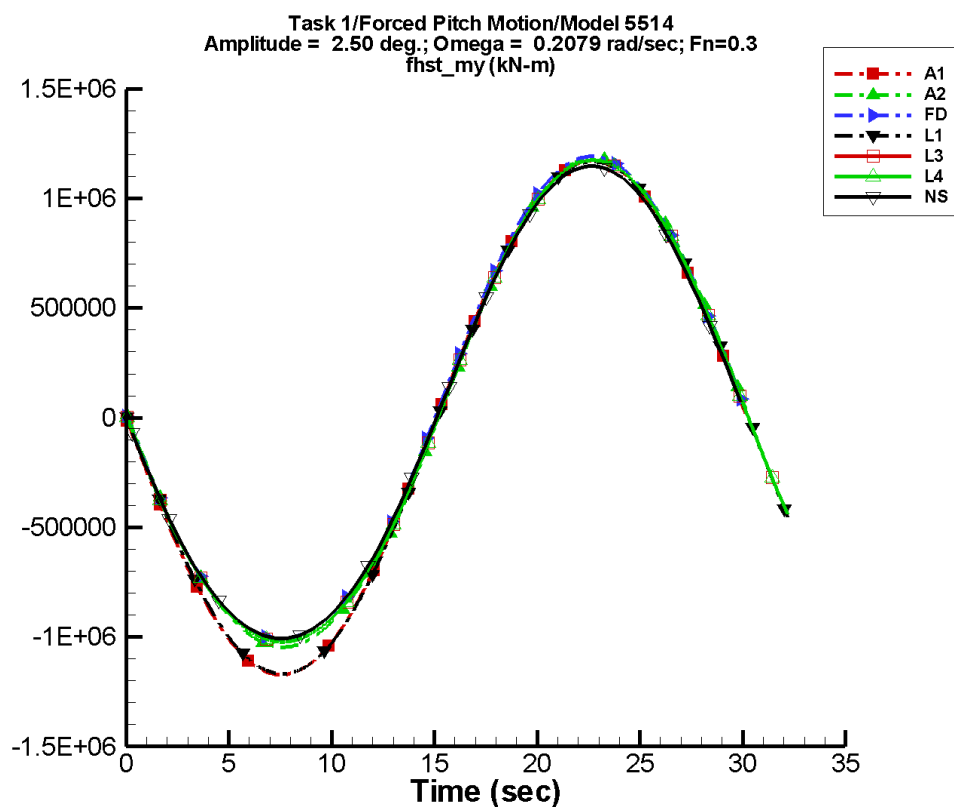
Table F-393. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.76E+04	7.98E+05	179	1.97E+04	-94
FD	3.25E+04	7.95E+05	-180	1.92E+04	-88
L1	1.01	8.18E+05	179	0.116	98
L3	1.64E+04	7.93E+05	179	2.04E+04	-92
L4	1.64E+04	7.93E+05	179	2.04E+04	-92
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F-394. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.29E+05	-7.55E+05	8.28E+05
FD	-7.36E+05	8.40E+05	-7.35E+05	8.39E+05
L1	-8.18E+05	8.18E+05	-8.17E+05	8.17E+05
L3	-7.50E+05	8.23E+05	-7.49E+05	8.22E+05
L4	-7.50E+05	8.23E+05	-7.49E+05	8.22E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-198. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

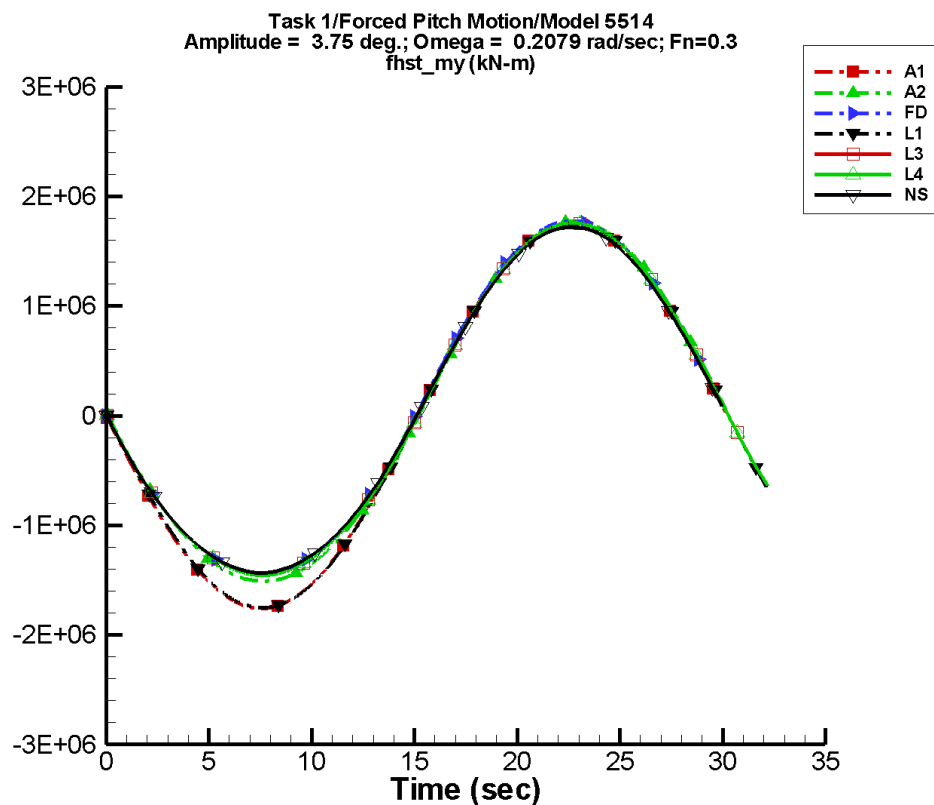
Table F–395. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	179	3.73E+04	-93
FD	5.24E+04	1.11E+06	-180	4.11E+04	-88
L1	1.11	1.17E+06	179	0.307	157
L3	3.63E+04	1.11E+06	179	4.30E+04	-92
L4	3.63E+04	1.11E+06	179	4.30E+04	-92
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	-180	3.57E+04	-90

Table F–396. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.05E+06	1.19E+06
FD	-1.01E+06	1.19E+06	-1.01E+06	1.19E+06
L1	-1.17E+06	1.17E+06	-1.17E+06	1.17E+06
L3	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
L4	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.99E+05	1.14E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-199. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

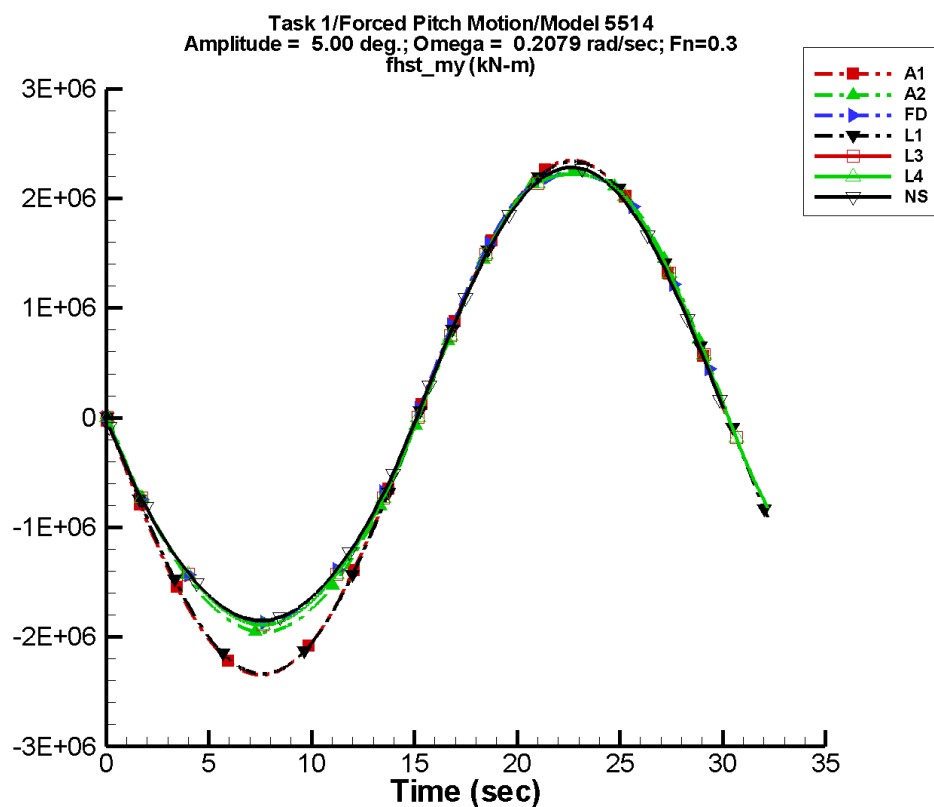
Table F-397. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.00E+04	1.66E+06	179	6.87E+04	-93
FD	9.42E+04	1.63E+06	-180	8.14E+04	-88
L1	-5.65E-02	1.75E+06	179	0.840	81
L3	7.79E+04	1.63E+06	179	8.32E+04	-92
L4	7.79E+04	1.63E+06	179	8.32E+04	-92
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	180	7.31E+04	-90

Table F-398. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.51E+06	1.77E+06
FD	-1.44E+06	1.78E+06	-1.44E+06	1.77E+06
L1	-1.75E+06	1.75E+06	-1.75E+06	1.75E+06
L3	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
L4	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-200. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

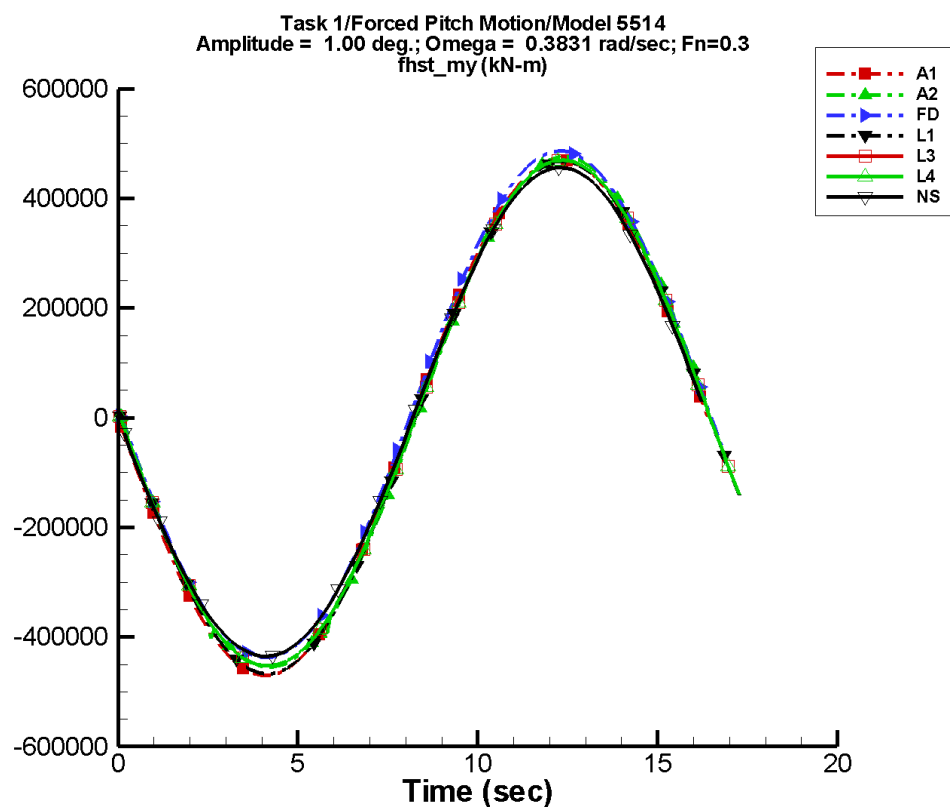
Table F-399. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.86E+04	2.15E+06	179	8.50E+04	-92
FD	1.24E+05	2.11E+06	-180	9.62E+04	-86
L1	2.94	2.34E+06	179	1.49	95
L3	1.10E+05	2.11E+06	179	1.01E+05	-92
L4	1.10E+05	2.11E+06	179	1.01E+05	-92
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F-400. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.95E+06	2.25E+06
FD	-1.87E+06	2.22E+06	-1.87E+06	2.22E+06
L1	-2.34E+06	2.34E+06	-2.34E+06	2.34E+06
L3	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
L4	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-201. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

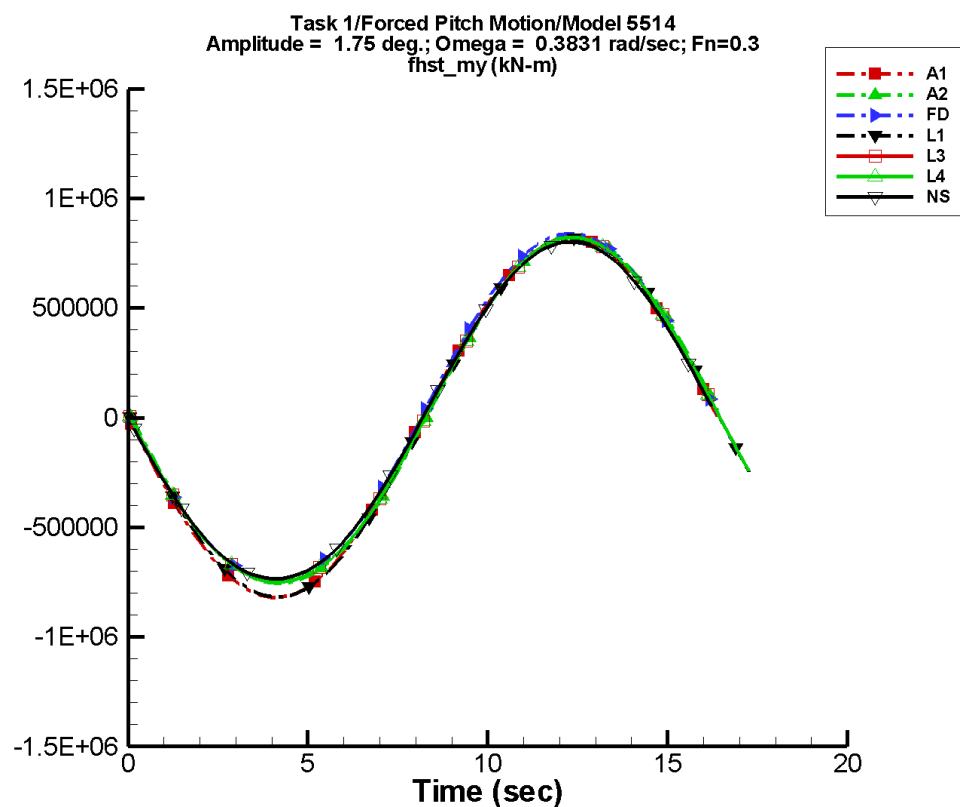
Table F-401. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.90E+03	4.67E+05	178	4.68E+03	-97
FD	2.02E+04	4.63E+05	-180	3.86E+03	-89
L1	-2.92	4.67E+05	179	7.63E-02	-91
L3	4.17E+03	4.63E+05	179	3.93E+03	-95
L4	4.17E+03	4.63E+05	179	3.93E+03	-95
NF	—	—	—	—	—
NS	5.39E+03	4.46E+05	180	5.01E+03	-90

Table F-402. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.76E+05	-4.55E+05	4.74E+05
FD	-4.37E+05	4.87E+05	-4.36E+05	4.85E+05
L1	-4.67E+05	4.67E+05	-4.67E+05	4.67E+05
L3	-4.53E+05	4.70E+05	-4.52E+05	4.69E+05
L4	-4.53E+05	4.70E+05	-4.52E+05	4.69E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.51E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-202. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

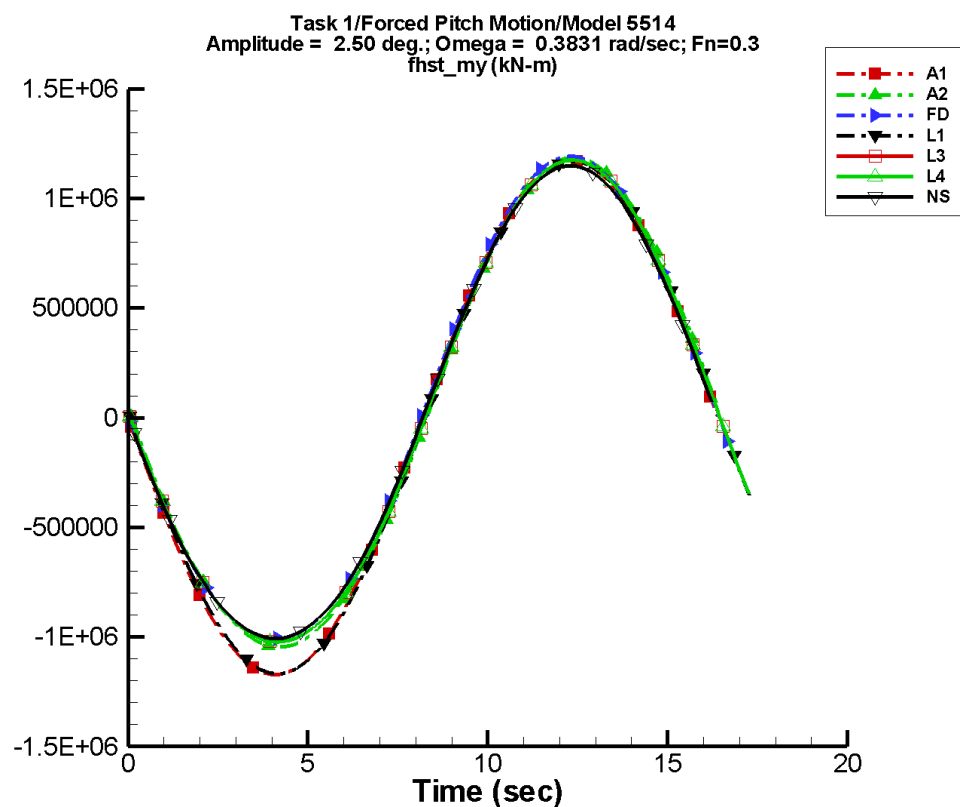
Table F-403. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.78E+04	7.98E+05	178	1.95E+04	-96
FD	3.24E+04	7.94E+05	-180	1.88E+04	-88
L1	-4.85	8.18E+05	179	0.114	-63
L3	1.65E+04	7.94E+05	179	1.88E+04	-95
L4	1.65E+04	7.94E+05	179	1.88E+04	-95
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F-404. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.29E+05	-7.56E+05	8.26E+05
FD	-7.36E+05	8.40E+05	-7.33E+05	8.37E+05
L1	-8.18E+05	8.18E+05	-8.17E+05	8.17E+05
L3	-7.50E+05	8.23E+05	-7.49E+05	8.21E+05
L4	-7.50E+05	8.23E+05	-7.49E+05	8.21E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-203. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

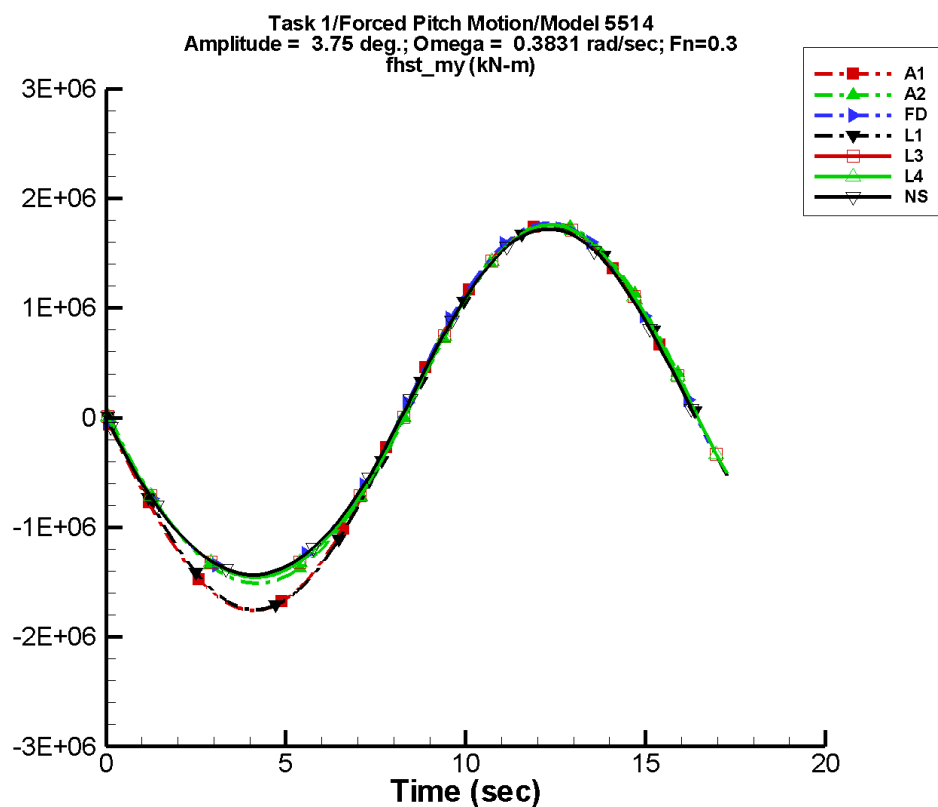
Table F-405. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	178	3.74E+04	-95
FD	5.22E+04	1.11E+06	-180	4.02E+04	-88
L1	-6.89	1.17E+06	179	0.138	-26
L3	3.63E+04	1.11E+06	179	4.03E+04	-95
L4	3.63E+04	1.11E+06	179	4.03E+04	-95
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	180	3.57E+04	-90

Table F-406. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.05E+06	1.18E+06
FD	-1.01E+06	1.19E+06	-1.00E+06	1.19E+06
L1	-1.17E+06	1.17E+06	-1.17E+06	1.17E+06
L3	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
L4	-1.02E+06	1.17E+06	-1.02E+06	1.17E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.98E+05	1.14E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-204. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

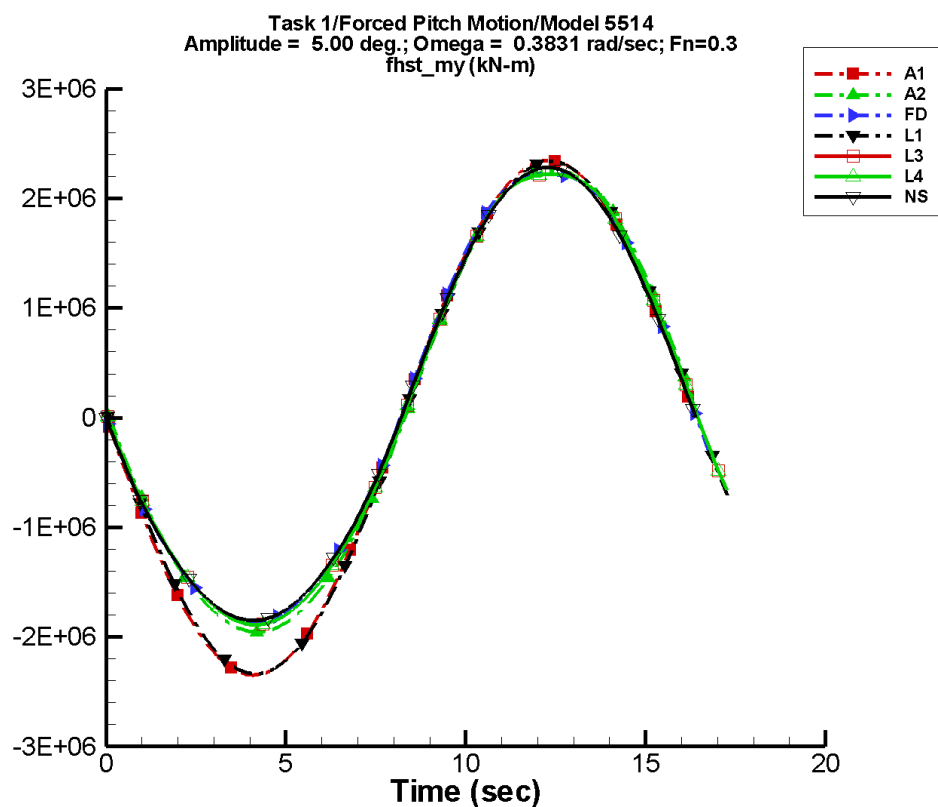
Table F-407. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.02E+04	1.66E+06	178	6.85E+04	-95
FD	9.39E+04	1.63E+06	-180	7.97E+04	-89
L1	-15.8	1.75E+06	179	0.633	-56
L3	7.78E+04	1.63E+06	179	7.96E+04	-94
L4	7.78E+04	1.63E+06	179	7.96E+04	-94
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	-180	7.31E+04	-90

Table F-408. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.51E+06	1.77E+06
FD	-1.44E+06	1.78E+06	-1.44E+06	1.77E+06
L1	-1.75E+06	1.75E+06	-1.75E+06	1.75E+06
L3	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
L4	-1.46E+06	1.76E+06	-1.45E+06	1.76E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-205. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

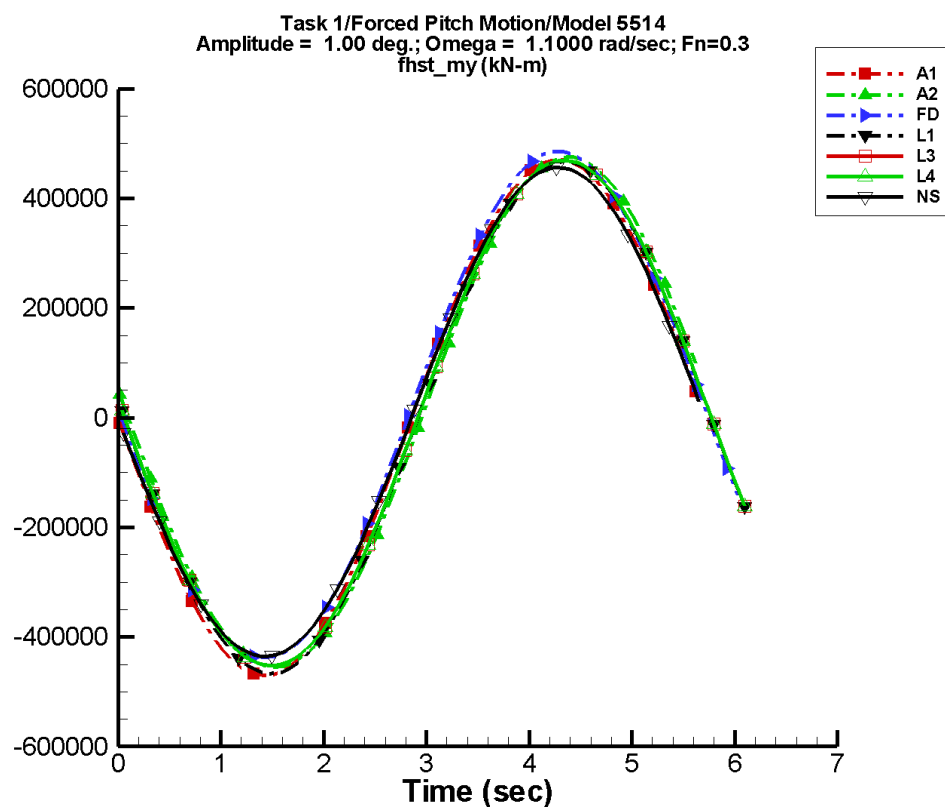
Table F-409. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.80E+04	2.15E+06	178	8.48E+04	-95
FD	1.24E+05	2.11E+06	-180	9.10E+04	-88
L1	-14.0	2.34E+06	179	0.359	58
L3	1.09E+05	2.11E+06	179	9.58E+04	-94
L4	1.09E+05	2.11E+06	179	9.58E+04	-94
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F-410. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.96E+06	2.24E+06
FD	-1.87E+06	2.22E+06	-1.87E+06	2.22E+06
L1	-2.34E+06	2.34E+06	-2.33E+06	2.33E+06
L3	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
L4	-1.89E+06	2.22E+06	-1.89E+06	2.22E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-206. Time history of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

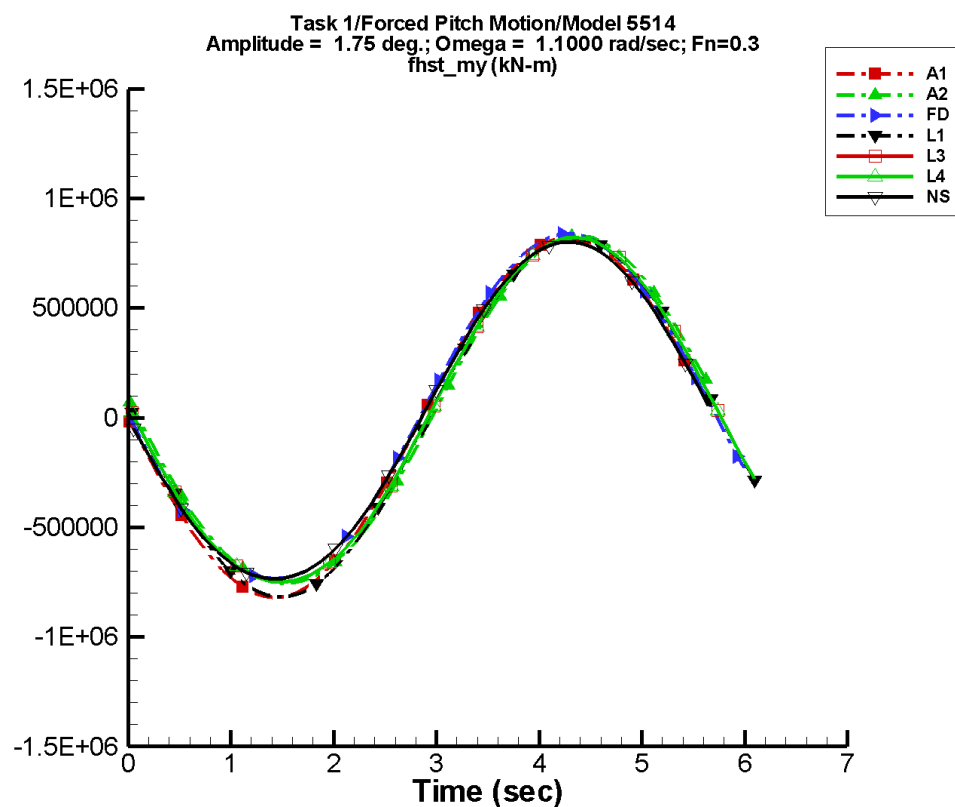
Table F-411. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	5.20E+03	4.67E+05	174	4.83E+03	-104
FD	2.02E+04	4.64E+05	-180	4.06E+03	-90
L1	-33.0	4.67E+05	176	7.60E-02	-130
L3	4.13E+03	4.63E+05	176	4.21E+03	-98
L4	4.13E+03	4.63E+05	176	4.21E+03	-98
NF	—	—	—	—	—
NS	5.39E+03	4.46E+05	180	5.01E+03	-90

Table F-412. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.55E+05	4.75E+05	-4.41E+05	4.61E+05
FD	-4.38E+05	4.86E+05	-4.24E+05	4.72E+05
L1	-4.67E+05	4.67E+05	-4.62E+05	4.62E+05
L3	-4.52E+05	4.70E+05	-4.48E+05	4.64E+05
L4	-4.52E+05	4.70E+05	-4.48E+05	4.64E+05
NF	—	—	—	—
NS	-4.36E+05	4.56E+05	-4.31E+05	4.51E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-207. Time history of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

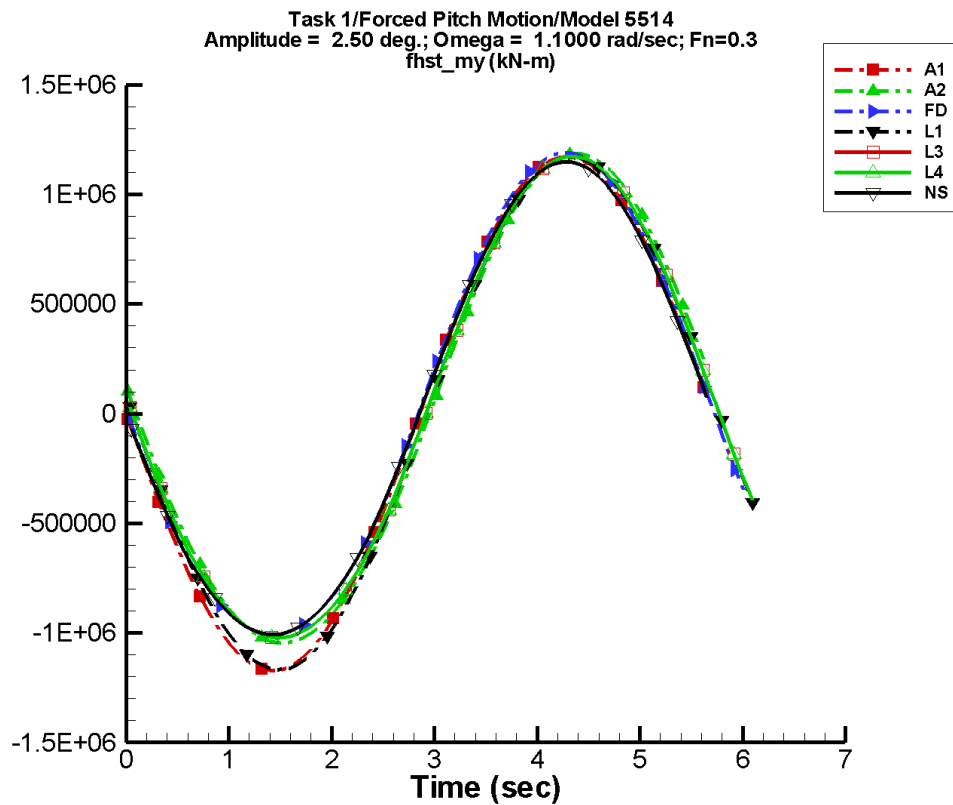
Table F-413. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.77E+04	7.98E+05	174	1.92E+04	-105
FD	3.24E+04	7.95E+05	-180	1.99E+04	-90
L1	-59.5	8.17E+05	176	0.115	-141
L3	1.64E+04	7.93E+05	176	2.03E+04	-98
L4	1.64E+04	7.93E+05	176	2.03E+04	-98
NF	—	—	—	—	—
NS	1.63E+04	7.73E+05	-180	1.64E+04	-90

Table F-414. Minimum and maximum of M_y^{hst} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-7.55E+05	8.28E+05	-7.33E+05	8.03E+05
FD	-7.36E+05	8.39E+05	-7.15E+05	8.14E+05
L1	-8.17E+05	8.17E+05	-8.08E+05	8.08E+05
L3	-7.50E+05	8.22E+05	-7.42E+05	8.13E+05
L4	-7.50E+05	8.22E+05	-7.42E+05	8.13E+05
NF	—	—	—	—
NS	-7.35E+05	8.02E+05	-7.28E+05	7.94E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-208. Time history of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

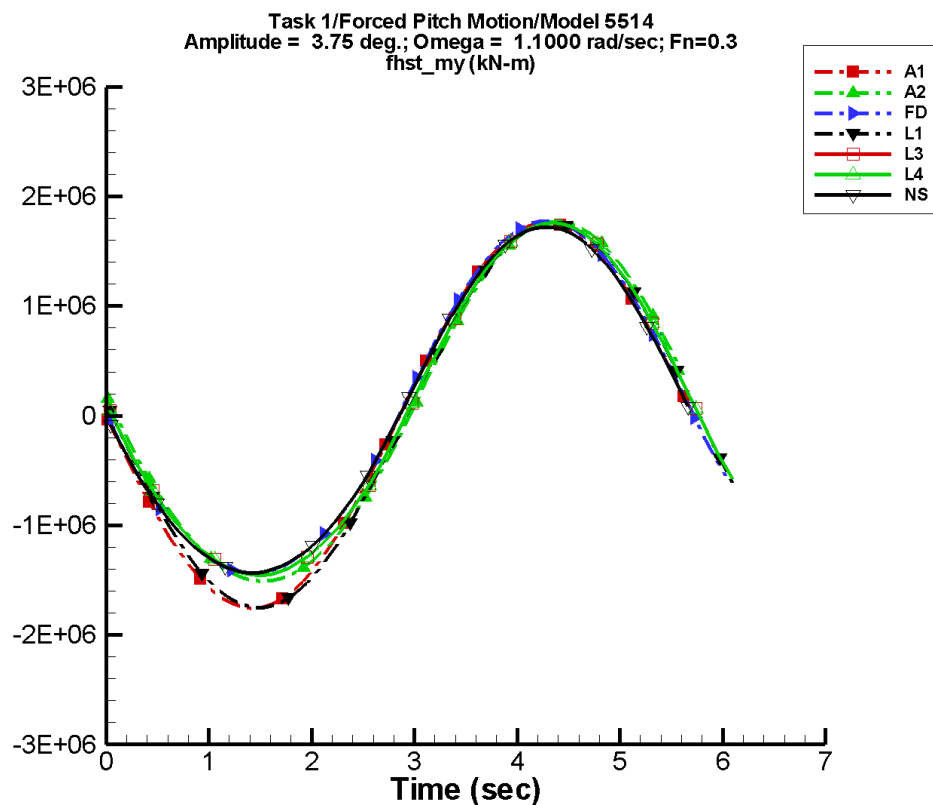
Table F-415. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.56E+04	1.12E+06	174	3.70E+04	-104
FD	5.23E+04	1.11E+06	-180	4.26E+04	-90
L1	-83.2	1.17E+06	176	0.291	101
L3	3.62E+04	1.11E+06	176	4.31E+04	-98
L4	3.62E+04	1.11E+06	176	4.31E+04	-98
NF	—	—	—	—	—
NS	3.50E+04	1.09E+06	180	3.57E+04	-90

Table F-416. Minimum and maximum of M_y^{hst} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.05E+06	1.19E+06	-1.02E+06	1.15E+06
FD	-1.01E+06	1.19E+06	-9.80E+05	1.16E+06
L1	-1.17E+06	1.17E+06	-1.15E+06	1.15E+06
L3	-1.02E+06	1.17E+06	-1.01E+06	1.16E+06
L4	-1.02E+06	1.17E+06	-1.01E+06	1.16E+06
NF	—	—	—	—
NS	-1.01E+06	1.15E+06	-9.98E+05	1.14E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-209. Time history of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

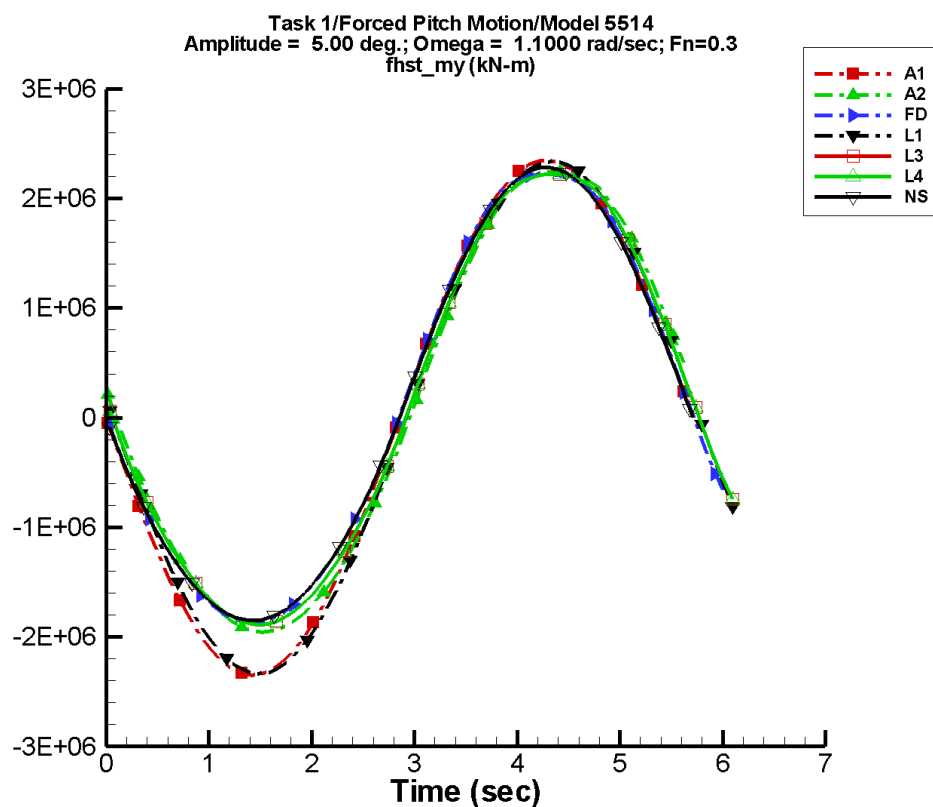
Table F-417. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.01E+04	1.66E+06	174	6.79E+04	-103
FD	9.38E+04	1.63E+06	-180	8.40E+04	-90
L1	-127.	1.75E+06	176	1.33	83
L3	7.73E+04	1.62E+06	176	8.42E+04	-98
L4	7.73E+04	1.62E+06	176	8.42E+04	-98
NF	—	—	—	—	—
NS	7.50E+04	1.60E+06	180	7.31E+04	-90

Table F-418. Minimum and maximum of M_y^{hst} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.51E+06	1.77E+06	-1.47E+06	1.72E+06
FD	-1.44E+06	1.77E+06	-1.40E+06	1.72E+06
L1	-1.75E+06	1.75E+06	-1.73E+06	1.73E+06
L3	-1.45E+06	1.76E+06	-1.44E+06	1.74E+06
L4	-1.45E+06	1.76E+06	-1.44E+06	1.74E+06
NF	—	—	—	—
NS	-1.43E+06	1.72E+06	-1.43E+06	1.71E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure F-210. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

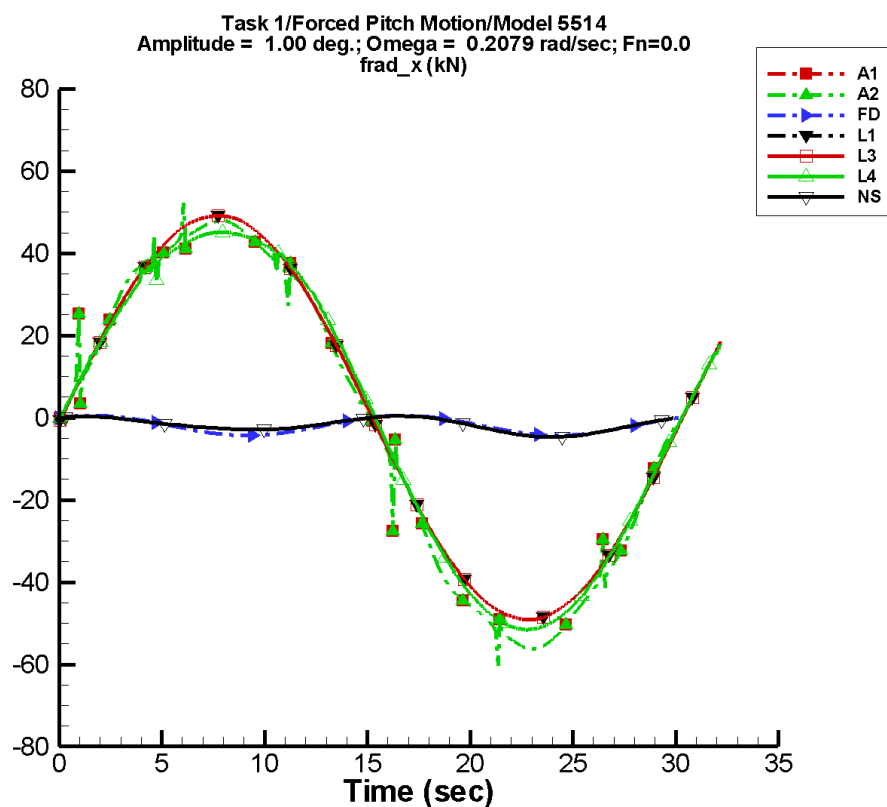
Table F-419. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	9.74E+04	2.15E+06	174	8.36E+04	-103
FD	1.23E+05	2.11E+06	-180	1.01E+05	-90
L1	-166.	2.34E+06	176	1.33	96
L3	1.08E+05	2.11E+06	176	1.04E+05	-98
L4	1.08E+05	2.11E+06	176	1.04E+05	-98
NF	—	—	—	—	—
NS	1.19E+05	2.09E+06	180	1.09E+05	-90

Table F-420. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.95E+06	2.25E+06	-1.90E+06	2.21E+06
FD	-1.87E+06	2.22E+06	-1.81E+06	2.19E+06
L1	-2.34E+06	2.34E+06	-2.31E+06	2.31E+06
L3	-1.89E+06	2.22E+06	-1.87E+06	2.21E+06
L4	-1.89E+06	2.22E+06	-1.87E+06	2.21E+06
NF	—	—	—	—
NS	-1.85E+06	2.28E+06	-1.84E+06	2.28E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-211. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

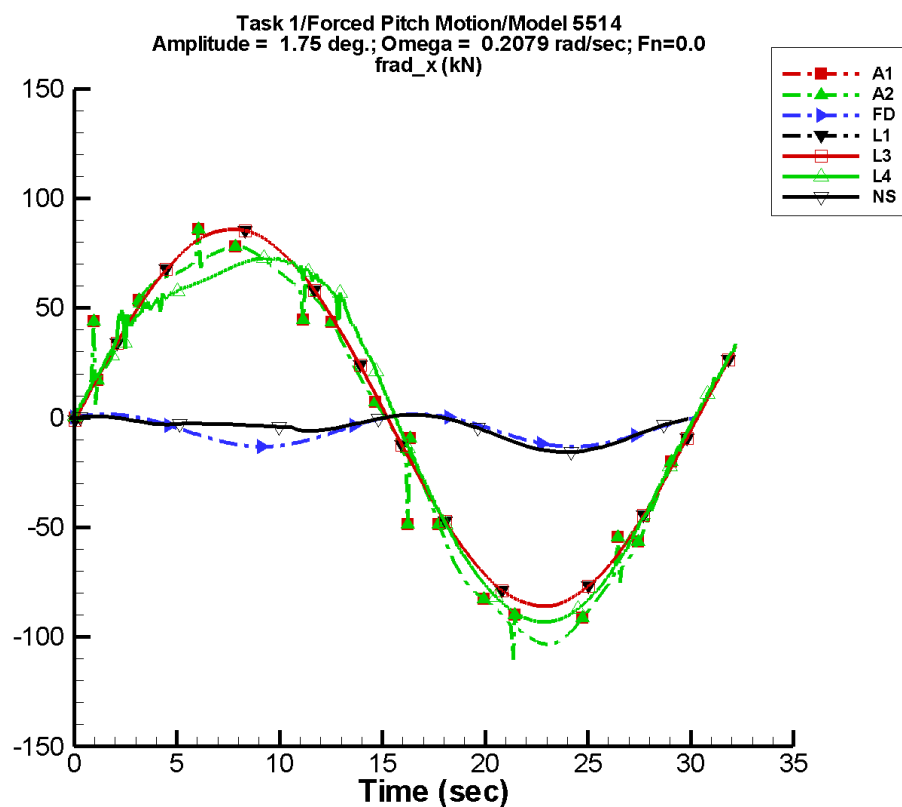
Table F-421. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.12	51.1	0	2.11	82
A2	-2.12	51.1	0	2.11	82
FD	—	—	—	—	—
L1	4.05E-02	49.1	-2	2.93E-02	76
L3	4.05E-02	49.1	-2	2.93E-02	76
L4	-0.865	48.9	-2	2.49	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-422. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-60.2	52.3	-56.1	47.8
A2	-60.2	52.3	-56.1	47.8
FD	—	—	—	—
L1	-49.1	49.2	-49.1	49.2
L3	-49.1	49.2	-49.1	49.2
L4	-51.6	45.1	-51.5	45.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-212. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

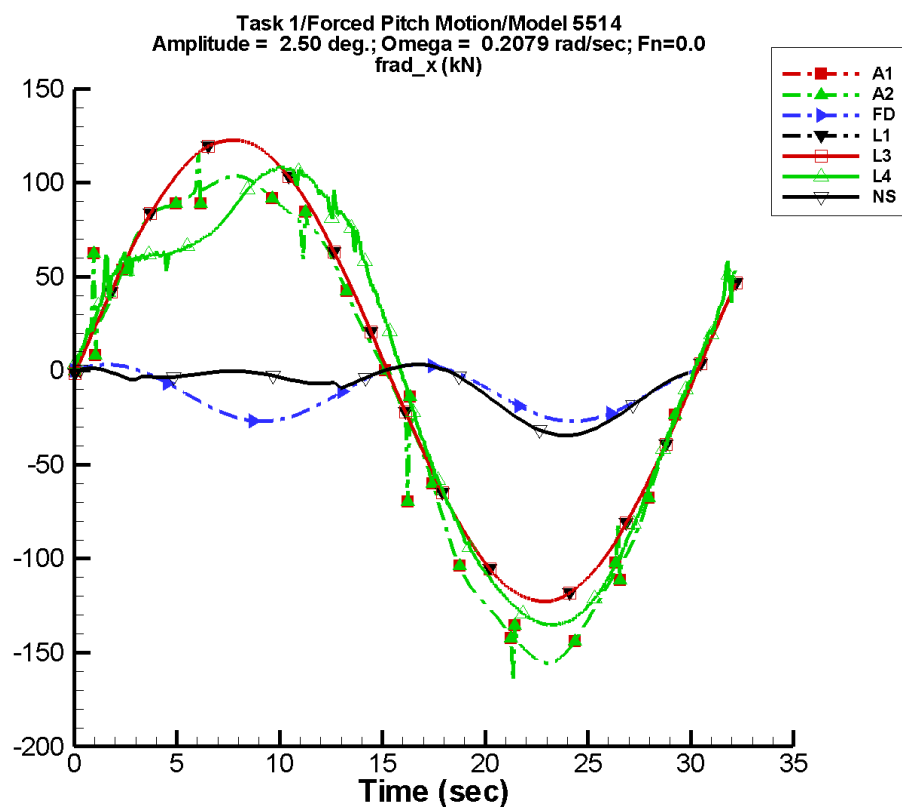
Table F-423. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-6.38	89.1	0	6.38	83
A2	-6.38	89.1	0	6.38	83
FD	—	—	—	—	—
L1	0.127	86.0	-2	0.107	79
L3	0.127	86.0	-2	0.107	79
L4	-2.39	84.1	-4	11.1	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-424. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-110.	86.1	-103.	77.8
A2	-110.	86.1	-103.	77.8
FD	—	—	—	—
L1	-86.0	86.1	-85.9	86.0
L3	-86.0	86.1	-85.9	86.0
L4	-93.2	72.9	-93.1	72.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-213. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

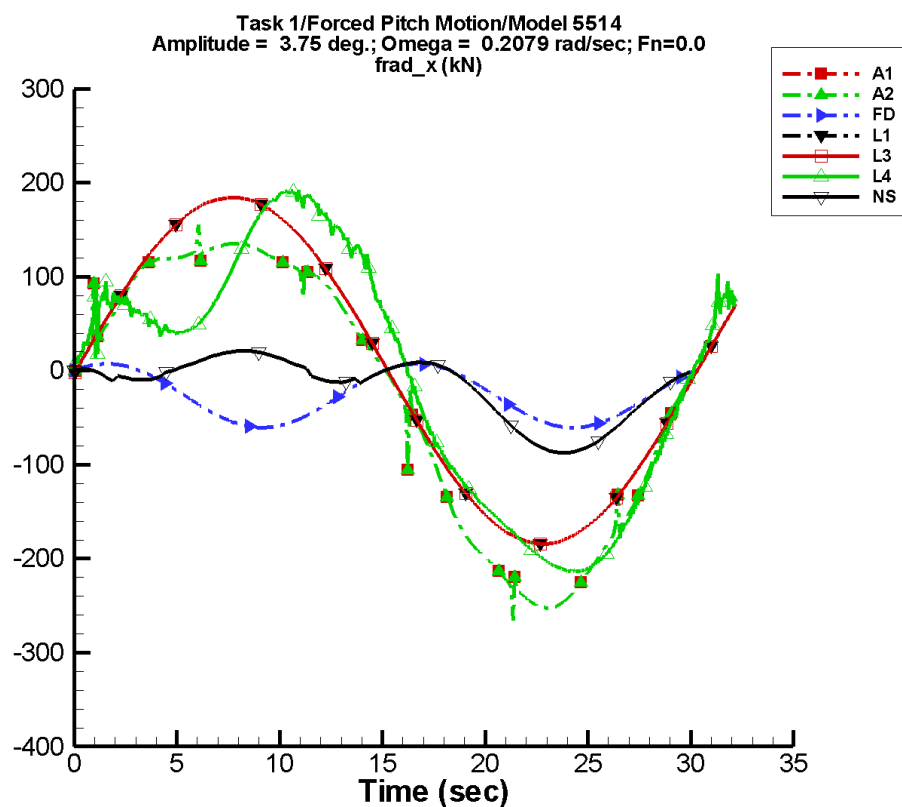
Table F-425. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-13.0	127.	0	13.0	83
A2	-13.0	127.	0	13.0	83
FD	—	—	—	—	—
L1	0.261	123.	-2	0.233	80
L3	0.261	123.	-2	0.233	80
L4	-4.36	118.	-7	24.0	109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-426. Minimum and maximum of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-165.	116.	-155.	103.
A2	-165.	116.	-155.	103.
FD	—	—	—	—
L1	-123.	123.	-123.	123.
L3	-123.	123.	-123.	123.
L4	-135.	109.	-135.	108.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-214. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

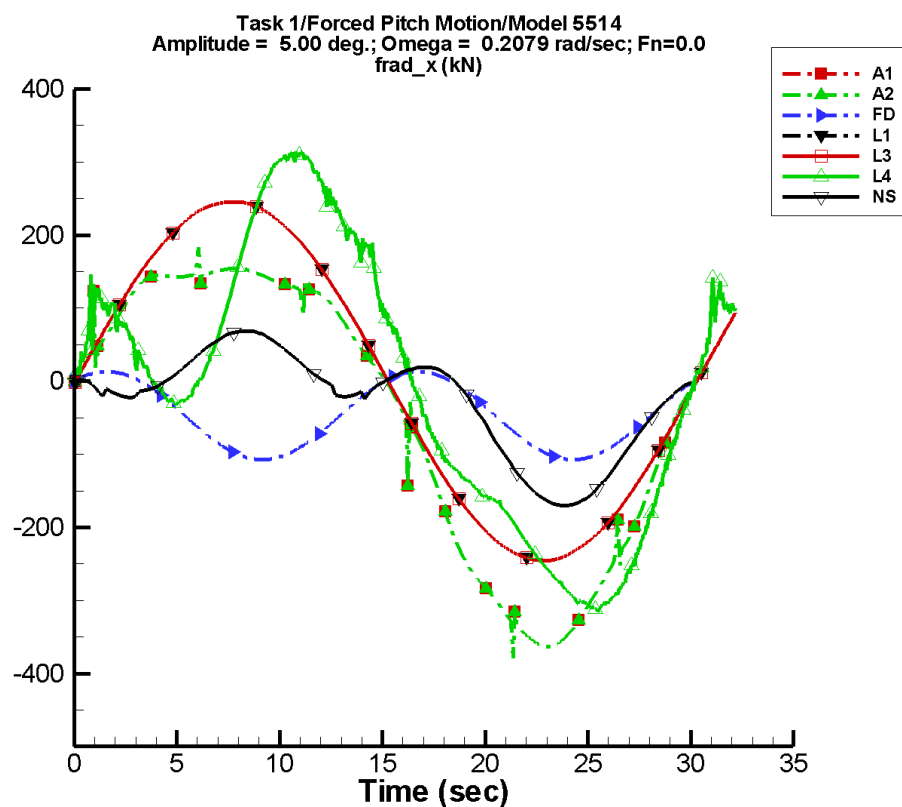
Table F-427. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-29.2	191.	0	29.3	83
A2	-29.2	191.	0	29.3	83
FD	—	—	—	—	—
L1	0.591	184.	-2	0.550	81
L3	0.591	184.	-2	0.550	81
L4	-7.92	176.	-15	53.0	114
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-428. Minimum and maximum of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-266.	155.	-252.	135.
A2	-266.	155.	-252.	135.
FD	—	—	—	—
L1	-184.	184.	-184.	184.
L3	-184.	184.	-184.	184.
L4	-214.	192.	-213.	190.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-215. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

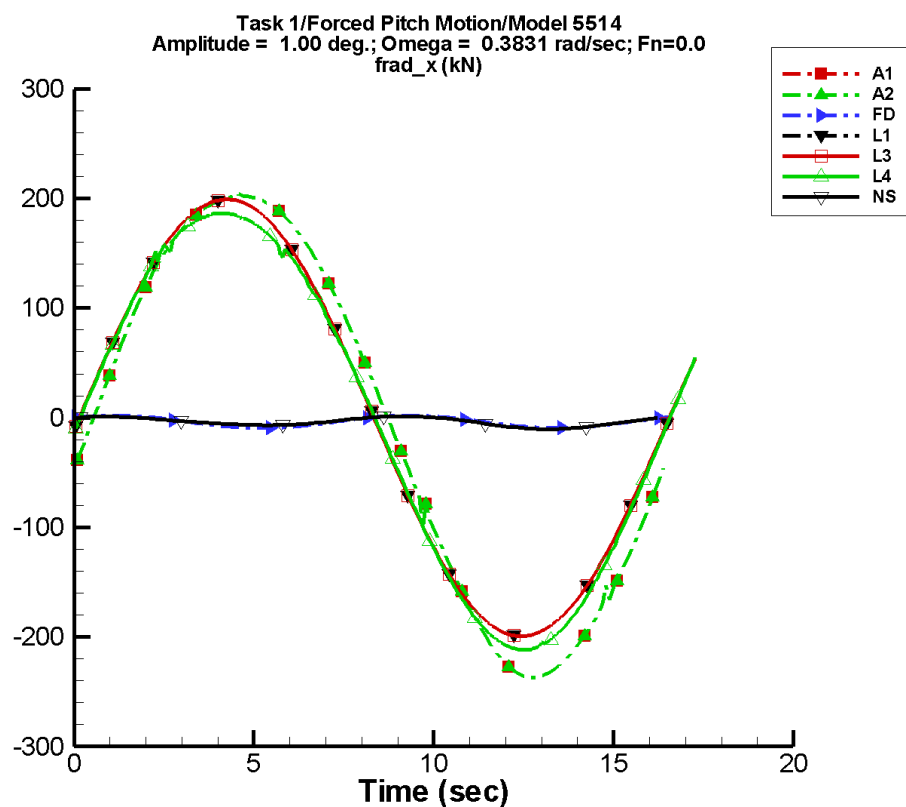
Table F-429. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-51.9	254.	0	52.1	83
A2	-51.9	254.	0	52.1	83
FD	—	—	—	—	—
L1	1.05	246.	-2	1.00	81
L3	1.05	246.	-2	1.00	81
L4	-9.65	239.	-24	87.3	121
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-430. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-379.	183.	-362.	154.
A2	-379.	183.	-362.	154.
FD	—	—	—	—
L1	-246.	246.	-246.	246.
L3	-246.	246.	-246.	246.
L4	-316.	314.	-311.	309.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-216. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

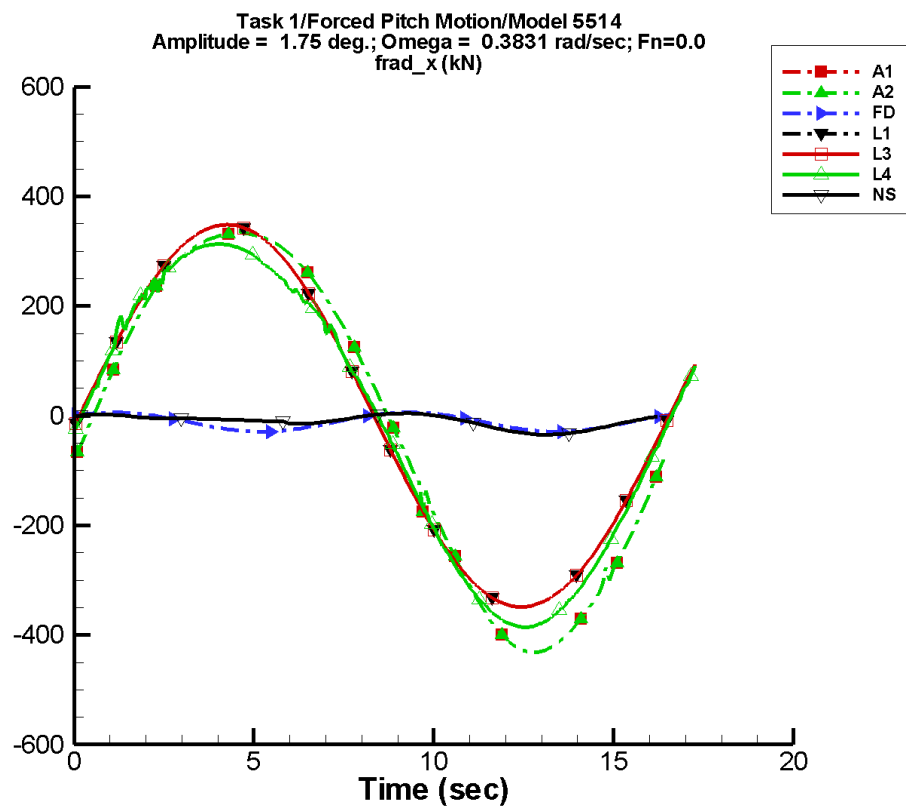
Table F-431. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-6.93	219.	-11	8.59	54
A2	-6.93	219.	-11	8.59	54
FD	—	—	—	—	—
L1	-0.195	199.	-3	0.146	-124
L3	-0.195	199.	-3	0.146	-124
L4	-6.00	199.	-3	6.75	58
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-432. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-237.	204.	-236.	201.
A2	-237.	204.	-236.	201.
FD	—	—	—	—
L1	-199.	199.	-199.	199.
L3	-199.	199.	-199.	199.
L4	-212.	186.	-211.	186.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-217. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

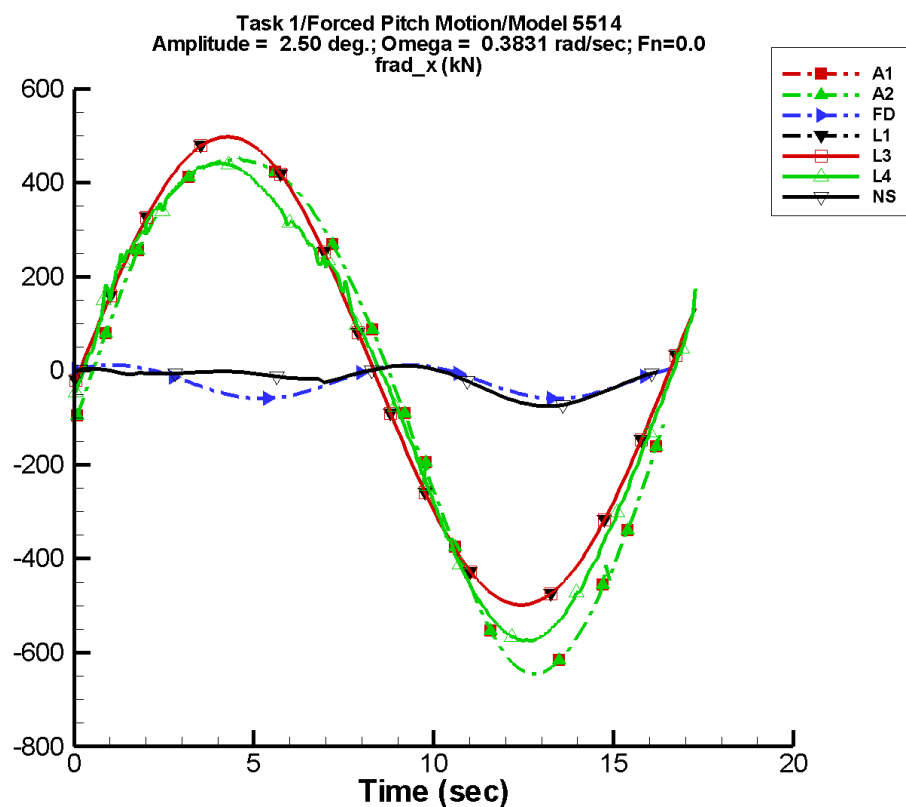
Table F-433. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-20.9	382.	-11	25.6	54
A2	-20.9	382.	-11	25.6	54
FD	—	—	—	—	—
L1	-0.574	349.	-3	0.502	-123
L3	-0.574	349.	-3	0.502	-123
L4	-16.7	348.	-4	23.1	54
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-434. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-432.	336.	-430.	332.
A2	-432.	336.	-430.	332.
FD	—	—	—	—
L1	-349.	349.	-348.	348.
L3	-349.	349.	-348.	348.
L4	-386.	313.	-385.	313.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-218. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

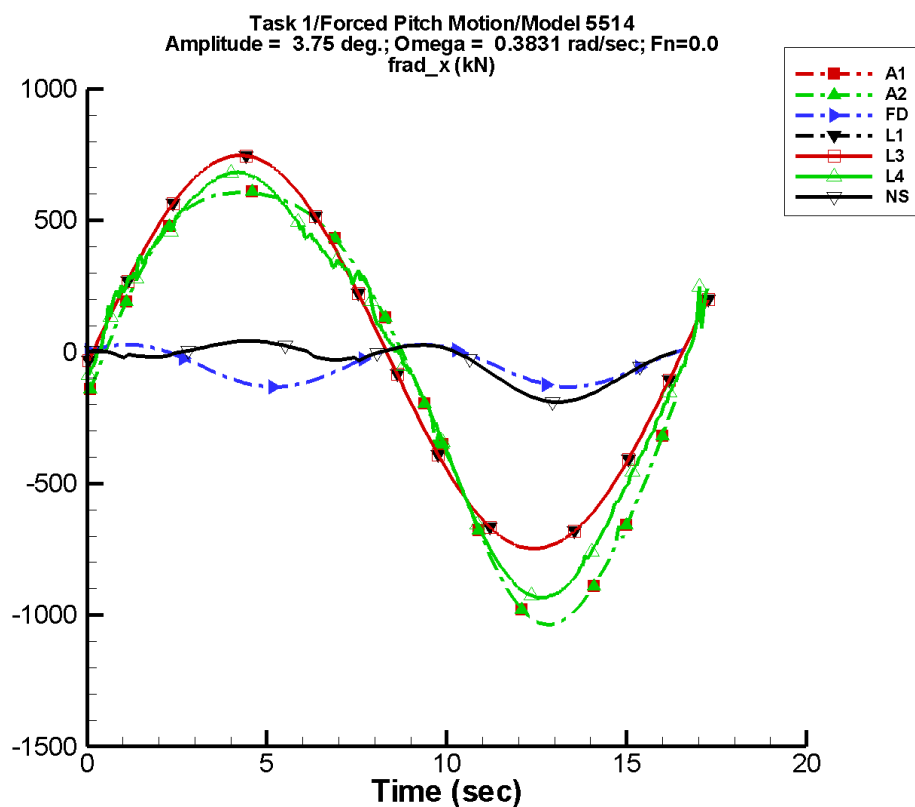
Table F-435. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-42.5	546.	-11	52.0	55
A2	-42.5	546.	-11	52.0	55
FD	—	—	—	—	—
L1	-1.15	498.	-3	1.07	-123
L3	-1.15	498.	-3	1.07	-123
L4	-30.5	499.	-5	45.9	53
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-436. Minimum and maximum of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-645.	453.	-642.	448.
A2	-645.	453.	-642.	448.
FD	—	—	—	—
L1	-498.	498.	-498.	497.
L3	-498.	498.	-498.	497.
L4	-575.	442.	-574.	441.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-219. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

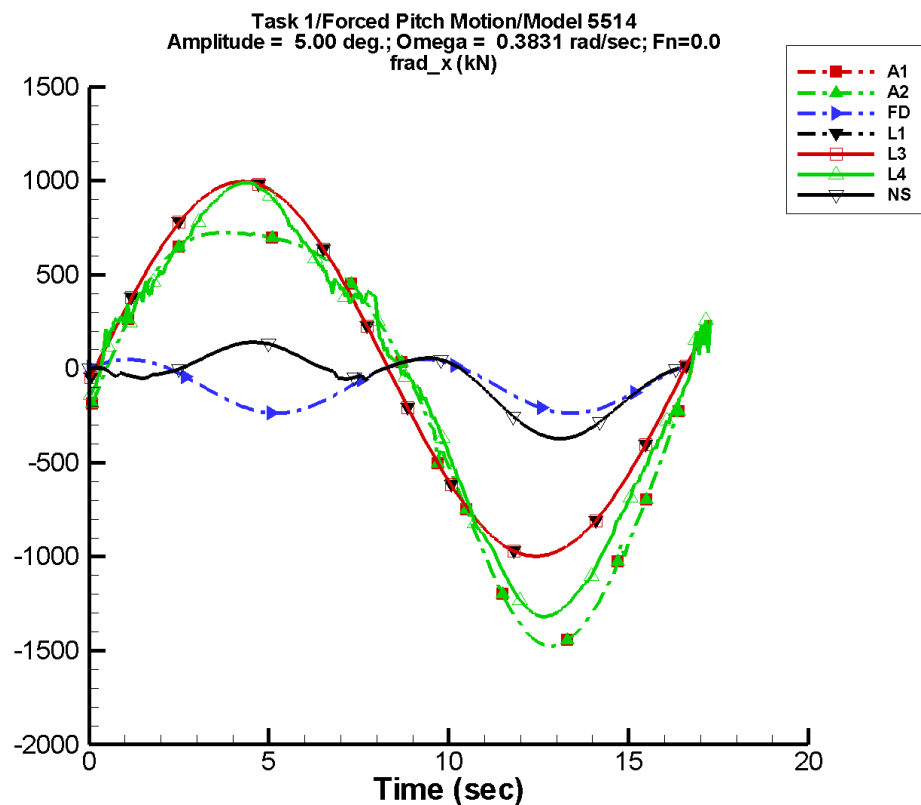
Table F-437. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-95.3	819.	-11	116.	55
A2	-95.3	819.	-11	116.	55
FD	—	—	—	—	—
L1	-2.56	748.	-3	2.48	-123
L3	-2.56	748.	-3	2.48	-123
L4	-57.8	768.	-7	88.0	55
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-438. Minimum and maximum of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.04E+03	621.	-1.03E+03	606.
A2	-1.04E+03	621.	-1.03E+03	606.
FD	—	—	—	—
L1	-748.	747.	-747.	746.
L3	-748.	747.	-747.	746.
L4	-935.	683.	-933.	681.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-220. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

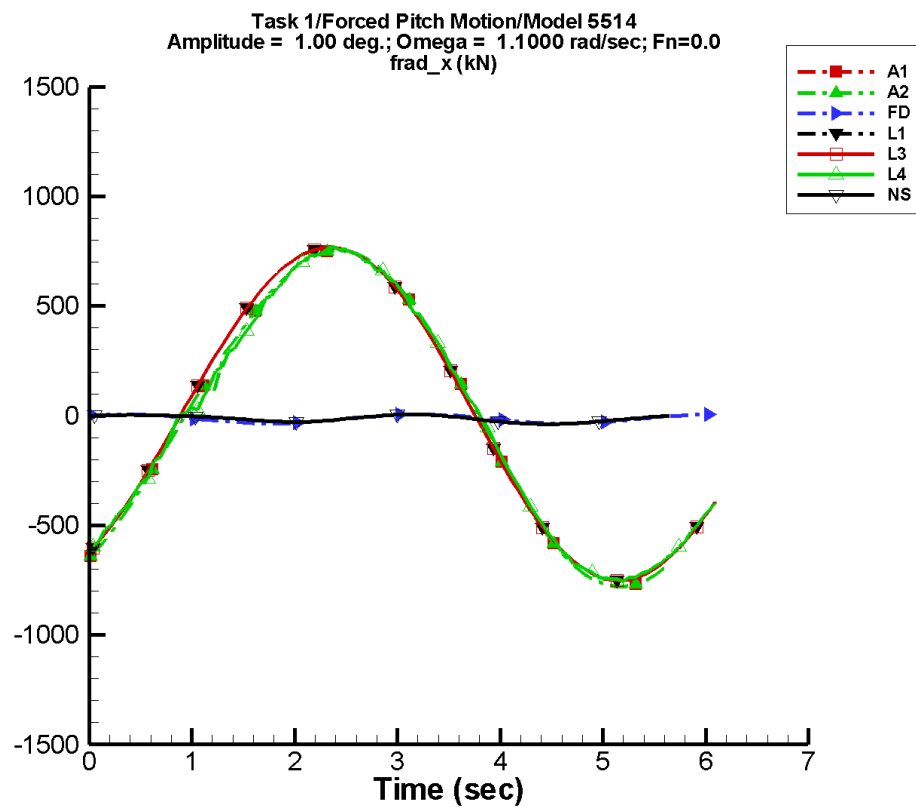
Table F-439. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-169.	1.09E+03	-11	207.	55
A2	-169.	1.09E+03	-11	207.	55
FD	—	—	—	—	—
L1	-4.53	997.	-3	4.48	-123
L3	-4.53	997.	-3	4.48	-123
L4	-77.7	1.05E+03	-9	117.	55
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-440. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.47E+03	757.	-1.47E+03	725.
A2	-1.47E+03	757.	-1.47E+03	725.
FD	—	—	—	—
L1	-997.	996.	-996.	994.
L3	-997.	996.	-996.	994.
L4	-1.32E+03	990.	-1.31E+03	988.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-221. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

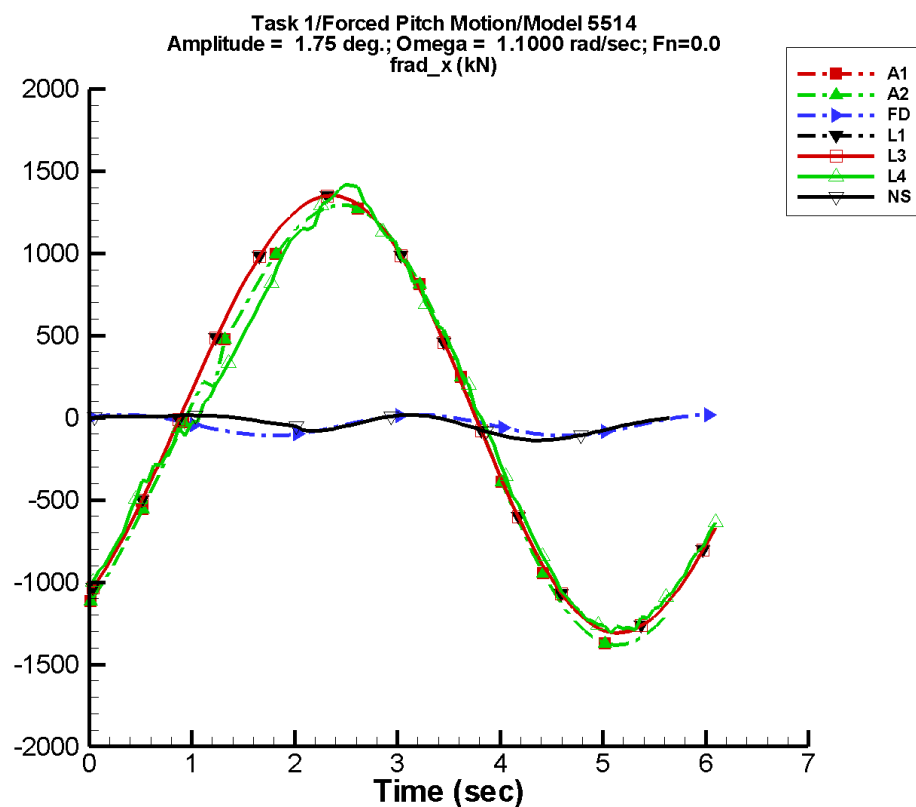
Table F-441. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-13.5	761.	-59	30.3	62
A2	-13.5	761.	-59	30.3	62
FD	—	—	—	—	—
L1	6.48	759.	-56	8.67	70
L3	6.49	759.	-56	8.67	70
L4	-3.06	740.	-59	36.2	72
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-442. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-779.	753.	-756.	730.
A2	-779.	753.	-756.	730.
FD	—	—	—	—
L1	-752.	766.	-744.	758.
L3	-752.	766.	-744.	758.
L4	-754.	768.	-739.	750.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-222. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

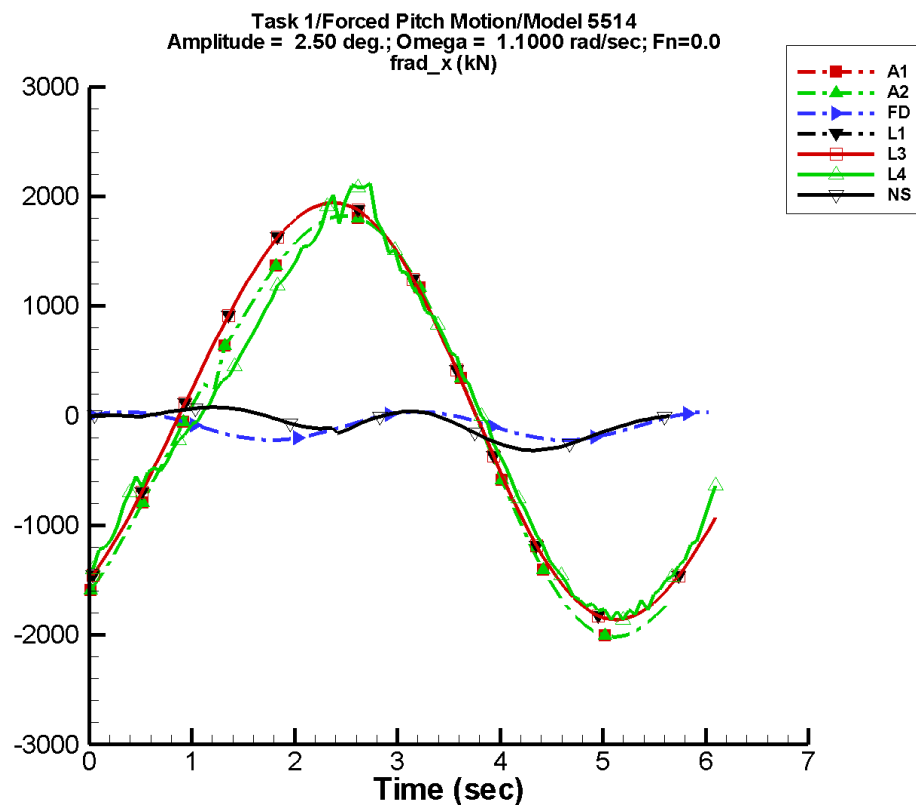
Table F-443. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-40.0	1.33E+03	-59	74.6	58
A2	-40.0	1.33E+03	-59	74.6	58
FD	—	—	—	—	—
L1	19.2	1.33E+03	-56	26.3	71
L3	19.2	1.33E+03	-56	26.3	71
L4	-6.93	1.25E+03	-61	129.	74
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-444. Minimum and maximum of of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.38E+03	1.29E+03	-1.34E+03	1.25E+03
A2	-1.38E+03	1.29E+03	-1.34E+03	1.25E+03
FD	—	—	—	—
L1	-1.31E+03	1.35E+03	-1.29E+03	1.34E+03
L3	-1.31E+03	1.35E+03	-1.29E+03	1.34E+03
L4	-1.31E+03	1.44E+03	-1.27E+03	1.35E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-223. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

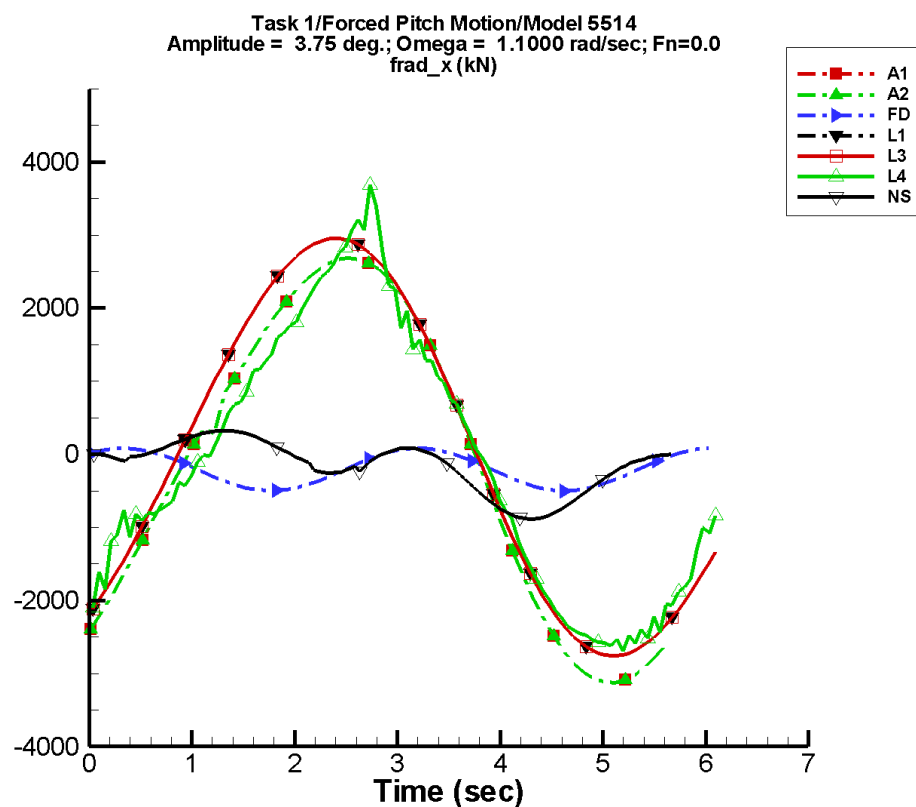
Table F-445. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-81.0	1.90E+03	-59	138.	55
A2	-81.0	1.90E+03	-59	138.	55
FD	—	—	—	—	—
L1	38.6	1.90E+03	-56	53.5	71
L3	38.6	1.90E+03	-56	53.5	71
L4	-14.0	1.75E+03	-62	249.	75
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-446. Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.02E+03	1.82E+03	-1.96E+03	1.76E+03
A2	-2.02E+03	1.82E+03	-1.96E+03	1.76E+03
FD	—	—	—	—
L1	-1.86E+03	1.94E+03	-1.84E+03	1.92E+03
L3	-1.86E+03	1.94E+03	-1.84E+03	1.92E+03
L4	-1.86E+03	2.12E+03	-1.79E+03	1.98E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-224. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

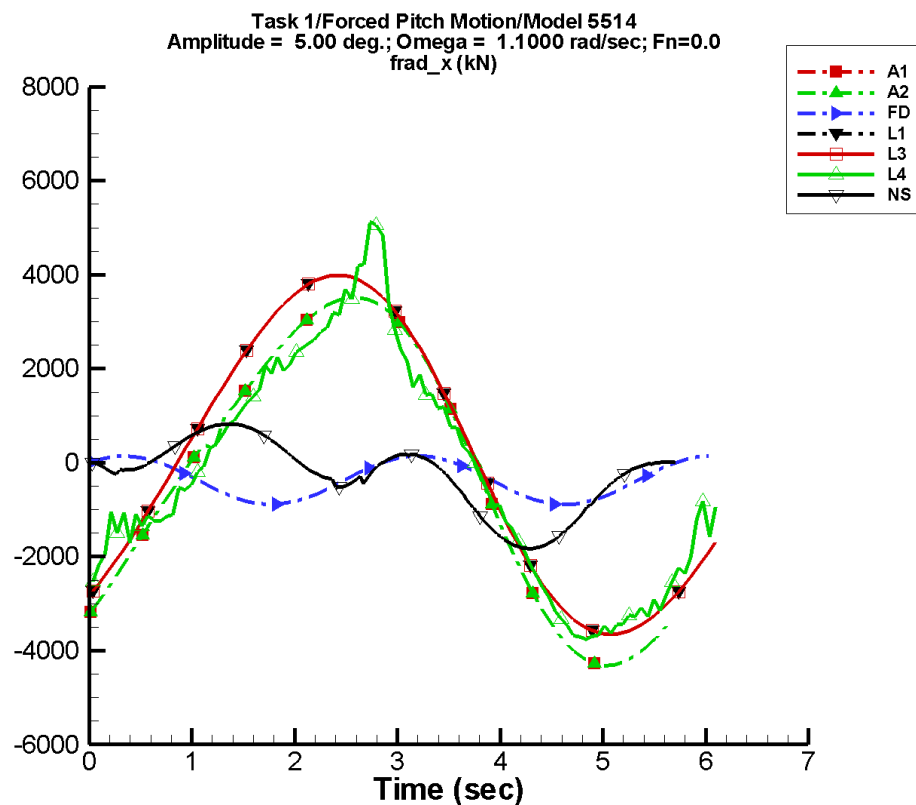
Table F-447. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-181.	2.85E+03	-59	287.	53
A2	-181.	2.85E+03	-59	287.	53
FD	—	—	—	—	—
L1	85.9	2.85E+03	-56	120.	71
L3	85.9	2.85E+03	-56	120.	71
L4	-35.6	2.53E+03	-63	488.	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-448. Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.12E+03	2.68E+03	-3.03E+03	2.59E+03
A2	-3.12E+03	2.68E+03	-3.03E+03	2.59E+03
FD	—	—	—	—
L1	-2.76E+03	2.95E+03	-2.73E+03	2.92E+03
L3	-2.76E+03	2.95E+03	-2.73E+03	2.92E+03
L4	-2.69E+03	3.68E+03	-2.57E+03	3.06E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-225. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

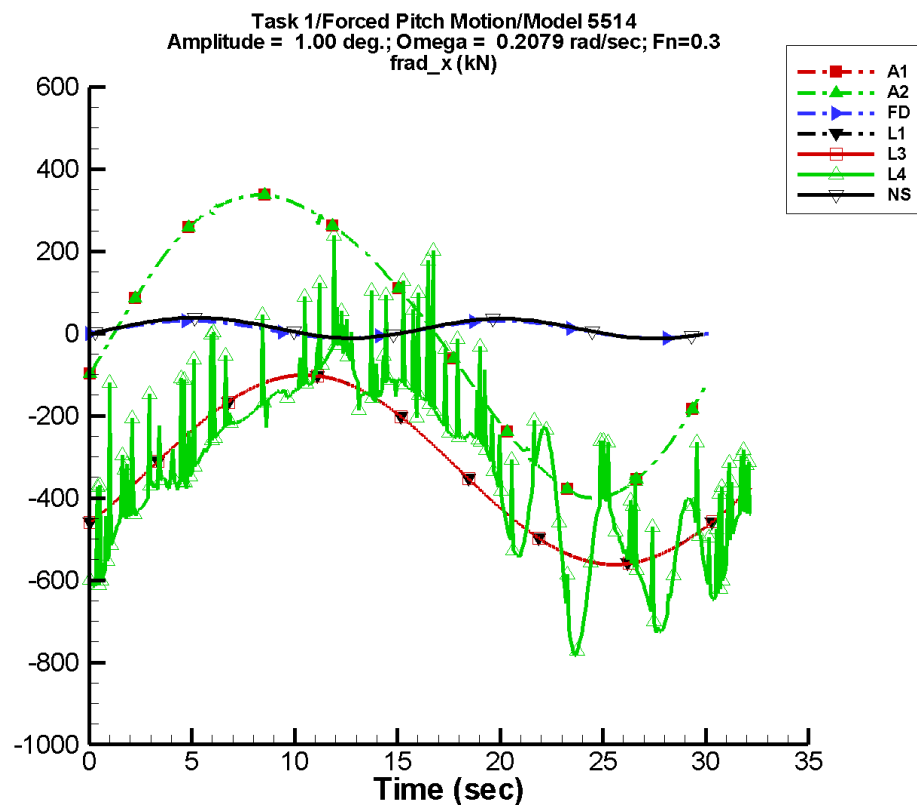
Table F-449. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-321.	3.80E+03	-59	490.	52
A2	-321.	3.80E+03	-59	490.	52
FD	—	—	—	—	—
L1	152.	3.80E+03	-56	213.	71
L3	152.	3.80E+03	-56	213.	71
L4	-124.	3.35E+03	-61	748.	76
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-450. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.32E+03	3.51E+03	-4.17E+03	3.38E+03
A2	-4.32E+03	3.51E+03	-4.17E+03	3.38E+03
FD	—	—	—	—
L1	-3.65E+03	3.99E+03	-3.61E+03	3.94E+03
L3	-3.65E+03	3.99E+03	-3.61E+03	3.94E+03
L4	-3.76E+03	5.12E+03	-3.63E+03	4.17E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-226. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

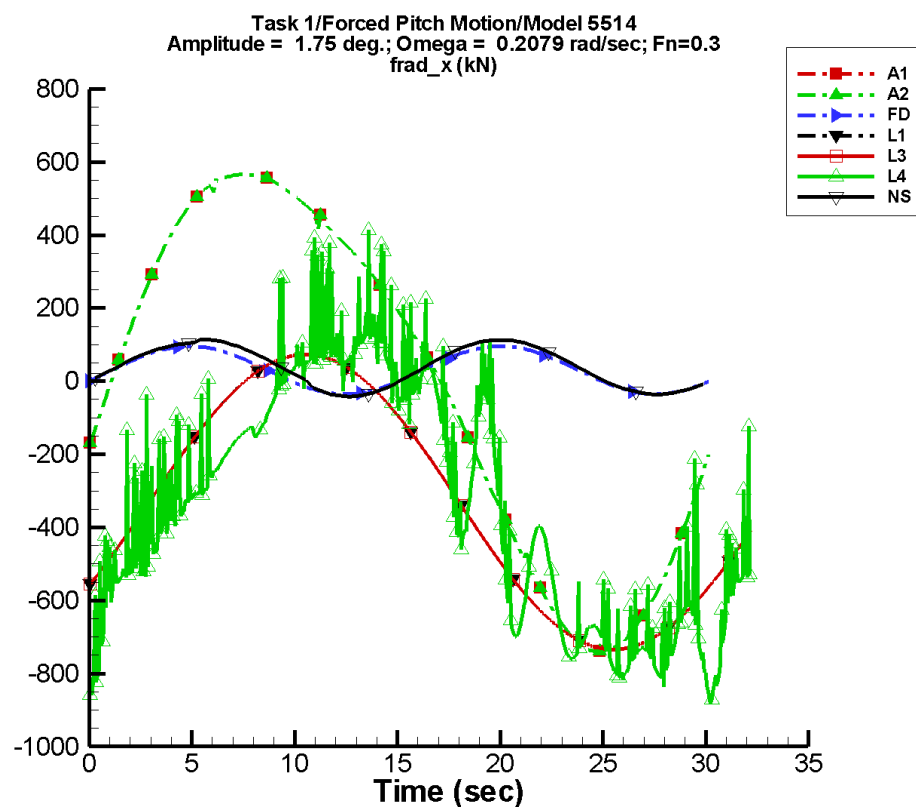
Table F-451. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.84	364.	-17	36.5	8
A2	-5.84	364.	-17	36.5	8
FD	—	—	—	—	—
L1	-332.	230.	-35	0.841	126
L3	-332.	230.	-35	0.842	126
L4	-315.	252.	-54	16.1	64
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-452. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-400.	343.	-399.	343.
A2	-400.	343.	-399.	343.
FD	—	—	—	—
L1	-562.	-101.	-562.	-101.
L3	-562.	-101.	-562.	-101.
L4	-783.	279.	-768.	35.7
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-227. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

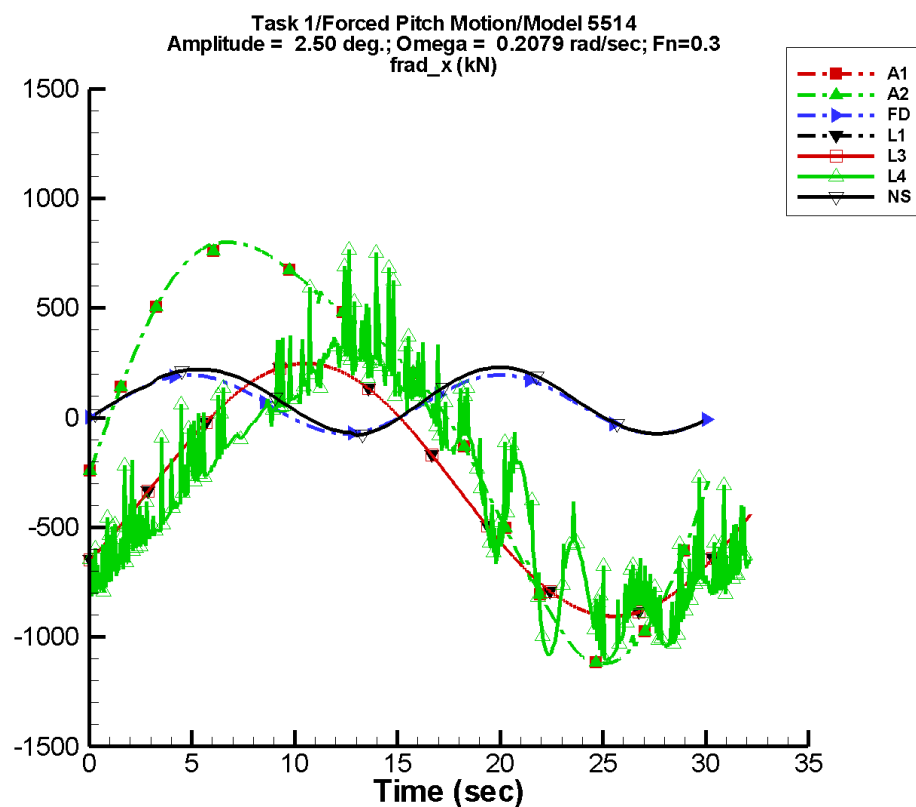
Table F-453. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-16.4	635.	-17	108.	8
A2	-16.4	635.	-17	108.	8
FD	—	—	—	—	—
L1	-331.	403.	-35	2.59	126
L3	-331.	403.	-35	2.59	126
L4	-321.	427.	-54	45.8	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-454. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-739.	592.	-738.	593.
A2	-739.	592.	-738.	593.
FD	—	—	—	—
L1	-734.	73.1	-734.	72.6
L3	-734.	72.8	-734.	72.6
L4	-882.	479.	-850.	174.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-228. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

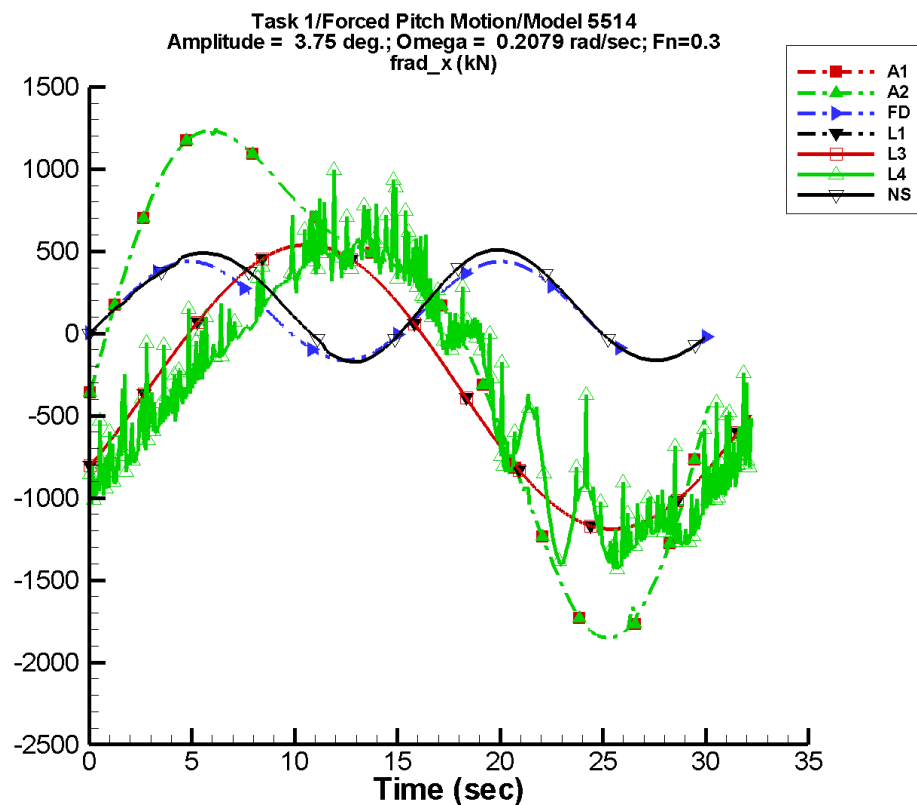
Table F-455. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-32.4	908.	-17	218.	8
A2	-32.4	908.	-17	218.	8
FD	—	—	—	—	—
L1	-330.	576.	-35	5.28	126
L3	-330.	576.	-35	5.28	126
L4	-321.	591.	-54	73.3	84
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-456. Minimum and maximum of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.12E+03	857.	-1.12E+03	841.
A2	-1.12E+03	857.	-1.12E+03	841.
FD	—	—	—	—
L1	-905.	248.	-905.	247.
L3	-905.	247.	-905.	247.
L4	-1.11E+03	766.	-1.08E+03	421.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-229. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

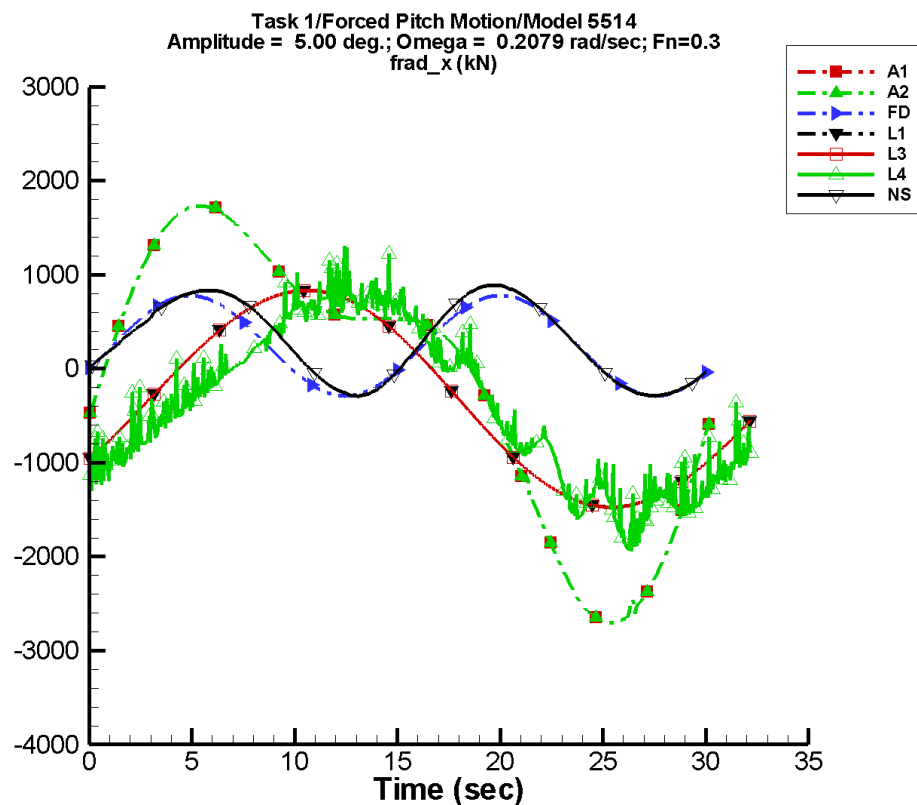
Table F-457. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-70.8	1.36E+03	-17	486.	8
A2	-70.8	1.36E+03	-17	486.	8
FD	—	—	—	—	—
L1	-328.	864.	-35	11.9	126
L3	-328.	864.	-35	11.9	126
L4	-346.	882.	-53	114.	75
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-458. Minimum and maximum of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.85E+03	1.32E+03	-1.85E+03	1.31E+03
A2	-1.85E+03	1.32E+03	-1.85E+03	1.31E+03
FD	—	—	—	—
L1	-1.19E+03	539.	-1.19E+03	539.
L3	-1.19E+03	539.	-1.19E+03	539.
L4	-1.43E+03	1.03E+03	-1.38E+03	624.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-230. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

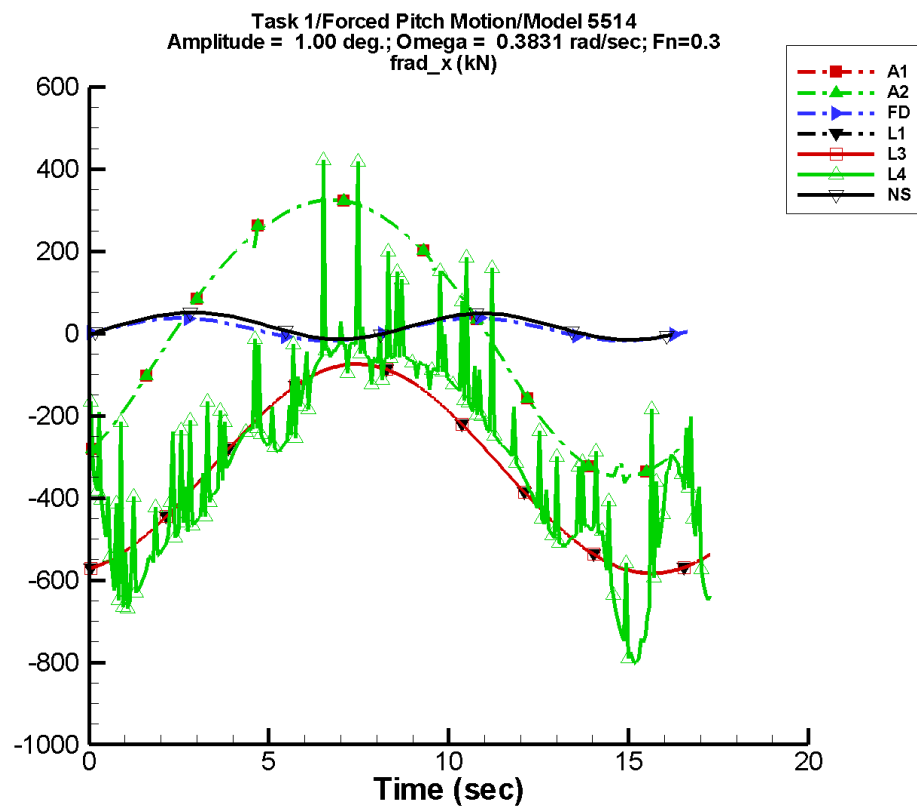
Table F-459. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-124.	1.81E+03	-17	862.	8
A2	-124.	1.81E+03	-17	862.	8
FD	—	—	—	—	—
L1	-326.	1.15E+03	-35	21.1	126
L3	-326.	1.15E+03	-35	21.1	126
L4	-369.	1.12E+03	-54	115.	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-460. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.70E+03	1.86E+03	-2.70E+03	1.86E+03
A2	-2.70E+03	1.86E+03	-2.70E+03	1.86E+03
FD	—	—	—	—
L1	-1.47E+03	833.	-1.47E+03	833.
L3	-1.47E+03	833.	-1.47E+03	833.
L4	-1.94E+03	1.31E+03	-1.81E+03	912.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-231. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

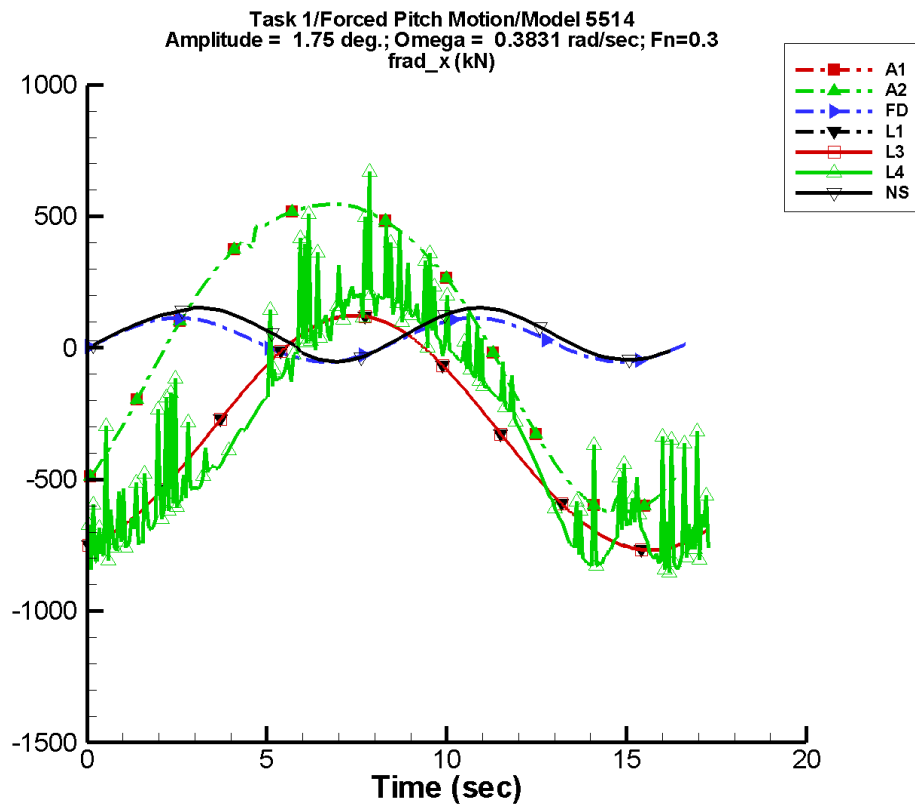
Table F-461. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.31	337.	-57	23.6	-20
A2	9.31	337.	-57	23.6	-20
FD	—	—	—	—	—
L1	-331.	255.	-73	1.84	130
L3	-331.	255.	-73	1.85	130
L4	-299.	269.	-83	43.3	67
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-462. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-363.	325.	-341.	324.
A2	-363.	325.	-341.	324.
FD	—	—	—	—
L1	-584.	-74.5	-583.	-74.8
L3	-584.	-74.5	-583.	-74.9
L4	-802.	422.	-773.	27.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-232. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

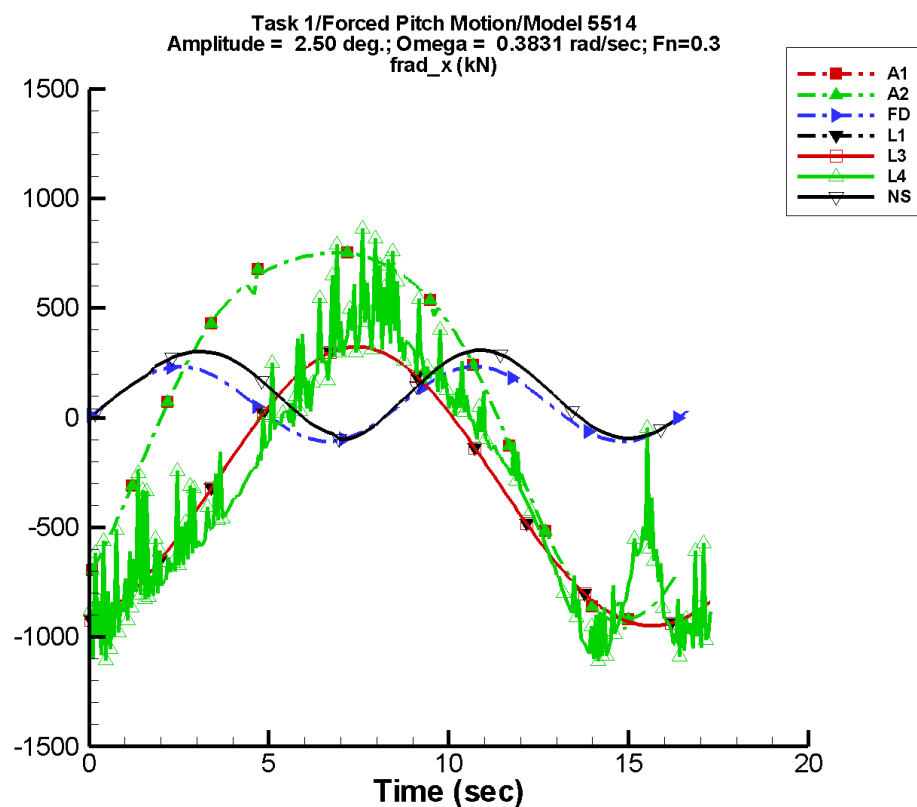
Table F-463. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	27.0	588.	-56	72.2	-20
A2	27.0	588.	-56	72.2	-20
FD	—	—	—	—	—
L1	-328.	445.	-73	5.65	130
L3	-328.	445.	-73	5.66	130
L4	-300.	485.	-83	78.8	68
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-464. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-654.	547.	-614.	545.
A2	-654.	547.	-614.	545.
FD	—	—	—	—
L1	-768.	123.	-767.	122.
L3	-768.	123.	-768.	122.
L4	-854.	670.	-781.	284.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-233. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

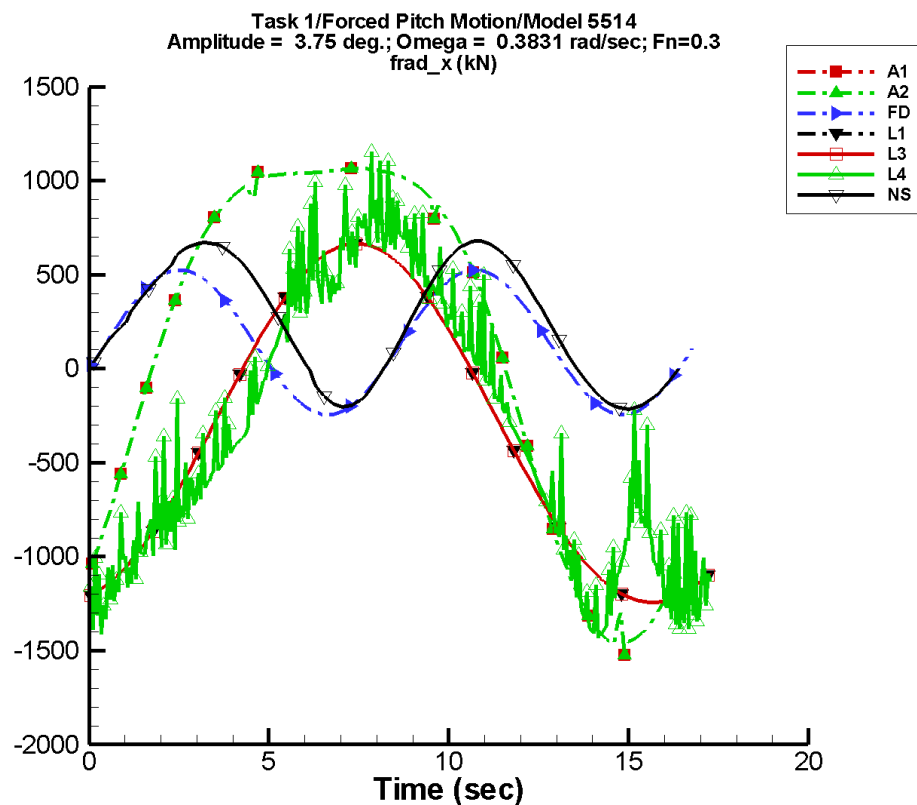
Table F-465. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	54.1	840.	-56	148.	-20
A2	54.1	840.	-56	148.	-20
FD	—	—	—	—	—
L1	-324.	636.	-73	11.5	130
L3	-324.	636.	-73	11.5	130
L4	-297.	663.	-82	113.	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-466. Minimum and maximum of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-965.	753.	-905.	751.
A2	-965.	753.	-905.	751.
FD	—	—	—	—
L1	-949.	323.	-948.	323.
L3	-949.	323.	-948.	322.
L4	-1.11E+03	862.	-1.02E+03	538.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure F-234. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

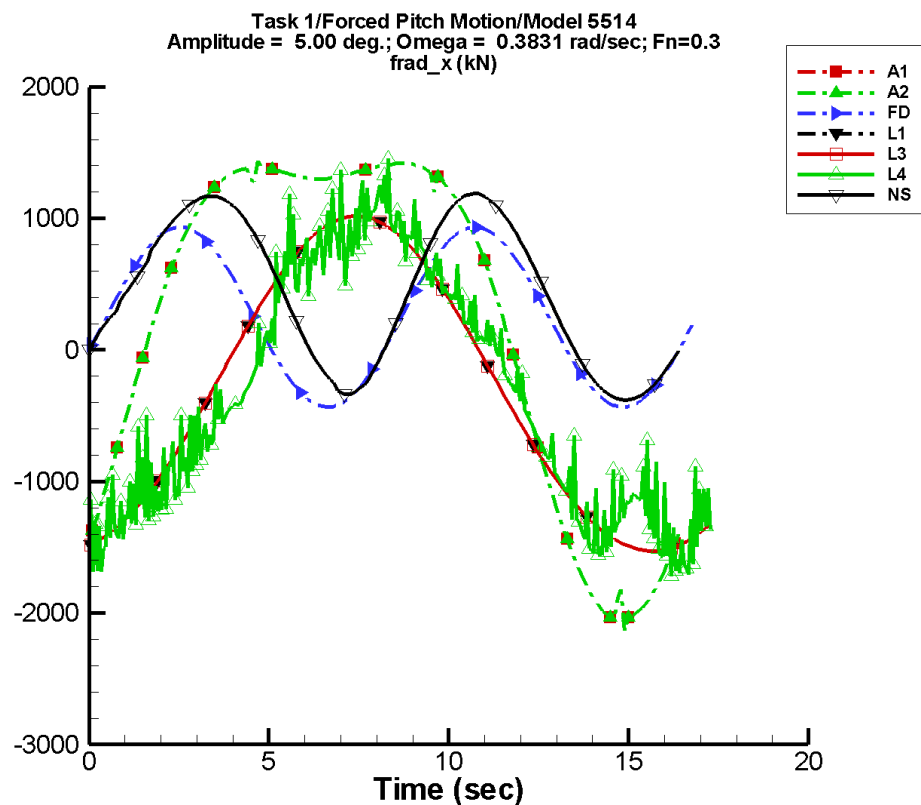
Table F-467. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	120.	1.26E+03	-56	333.	-20
A2	120.	1.26E+03	-56	333.	-20
FD	—	—	—	—	—
L1	-315.	954.	-73	26.0	130
L3	-315.	954.	-73	26.0	130
L4	-291.	945.	-81	136.	82
NF	—	—	—	—	—
NS	—	—	—	—	—

Table F-468. Minimum and maximum of of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.52E+03	1.07E+03	-1.43E+03	1.06E+03
A2	-1.52E+03	1.07E+03	-1.43E+03	1.06E+03
FD	—	—	—	—
L1	-1.24E+03	666.	-1.24E+03	664.
L3	-1.24E+03	666.	-1.24E+03	664.
L4	-1.43E+03	1.15E+03	-1.36E+03	843.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-235. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

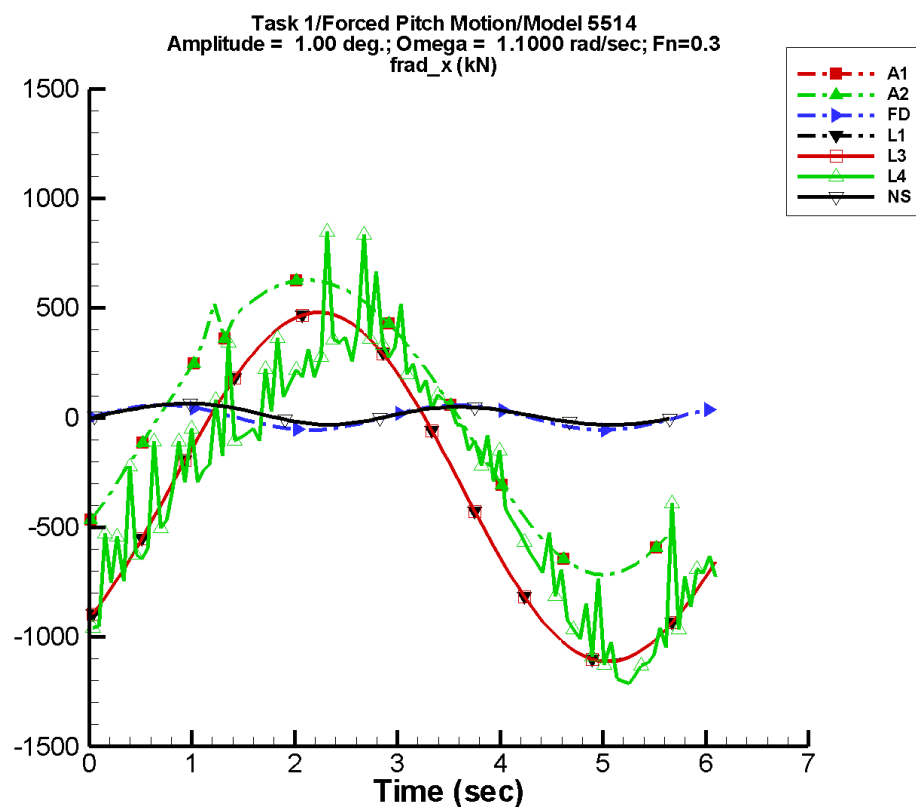
Table F-469. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	212.	1.69E+03	-56	595.	-20
A2	212.	1.69E+03	-56	595.	-20
FD	—	—	—	—	—
L1	-301.	1.27E+03	-73	46.2	130
L3	-301.	1.27E+03	-73	46.2	130
L4	-292.	1.21E+03	-82	138.	93
NF	—	—	—	—	—
NS	429.	143.	-43	734.	-37

Table F-470. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.13E+03	1.44E+03	-2.00E+03	1.42E+03
A2	-2.13E+03	1.44E+03	-2.00E+03	1.42E+03
FD	—	—	—	—
L1	-1.53E+03	1.02E+03	-1.53E+03	1.02E+03
L3	-1.53E+03	1.02E+03	-1.53E+03	1.02E+03
L4	-1.72E+03	1.45E+03	-1.58E+03	1.16E+03
NF	—	—	—	—
NS	-381.	1.21E+03	-371.	1.20E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-236. Time history of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

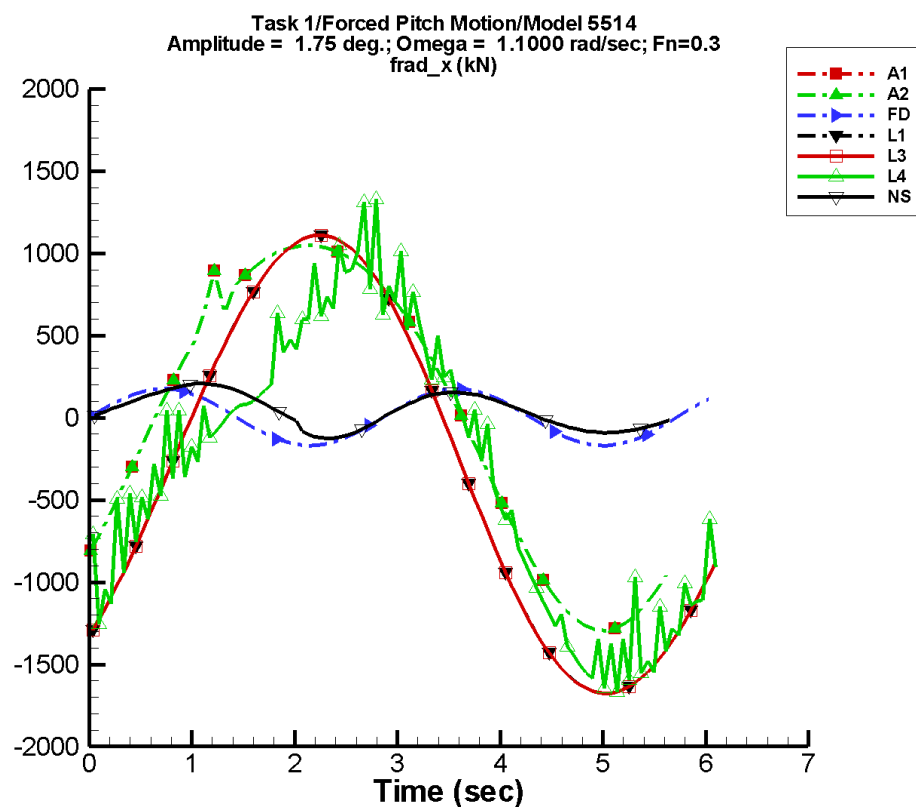
Table F-471. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-6.81	672.	-44	41.0	-7
A2	-6.81	672.	-44	41.0	-7
FD	—	—	—	—	—
L1	-320.	795.	-49	10.1	108
L3	-321.	795.	-49	10.1	108
L4	-278.	687.	-64	116.	18
NF	—	—	—	—	—
NS	13.0	11.6	3	43.8	-18

Table F-472. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-716.	628.	-692.	609.
A2	-716.	628.	-692.	609.
FD	—	—	—	—
L1	-1.11E+03	480.	-1.10E+03	471.
L3	-1.11E+03	480.	-1.10E+03	471.
L4	-1.21E+03	849.	-1.13E+03	462.
NF	—	—	—	—
NS	-33.6	67.3	-32.2	65.6

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Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-237. Time history of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

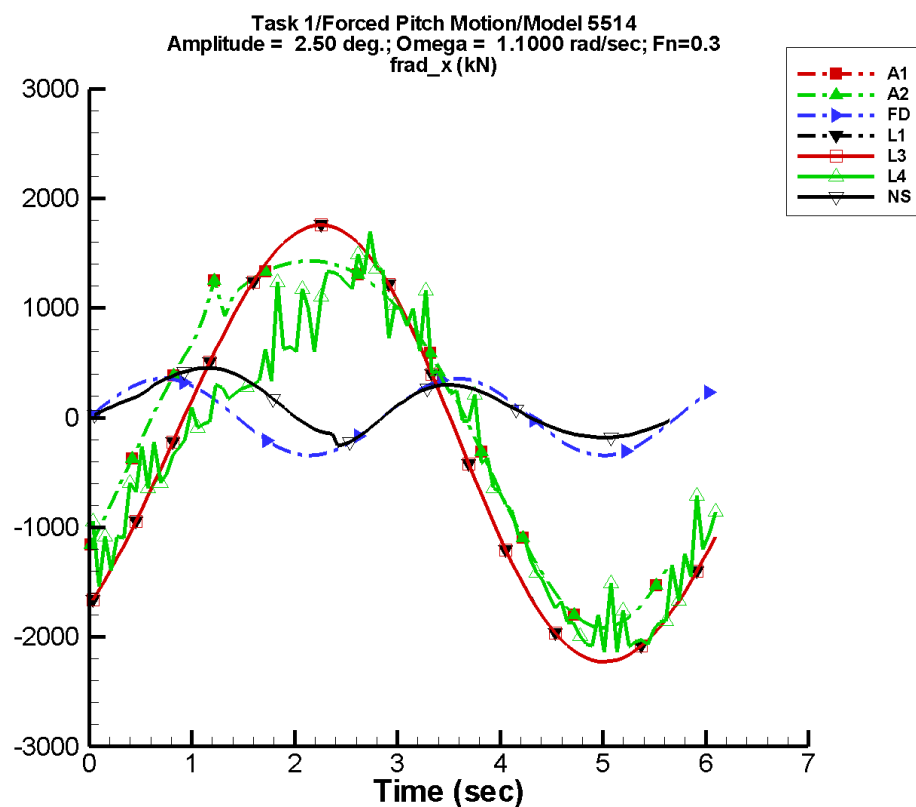
Table F-473. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-14.9	1.17E+03	-44	115.	-3
A2	-14.9	1.17E+03	-44	115.	-3
FD	—	—	—	—	—
L1	-298.	1.39E+03	-49	30.8	108
L3	-298.	1.39E+03	-49	30.8	108
L4	-273.	1.13E+03	-61	248.	42
NF	—	—	—	—	—
NS	42.4	41.3	2	134.	-23

Table F-474. Minimum and maximum of F_x^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.30E+03	1.05E+03	-1.25E+03	1.02E+03
A2	-1.30E+03	1.05E+03	-1.25E+03	1.02E+03
FD	—	—	—	—
L1	-1.68E+03	1.11E+03	-1.66E+03	1.09E+03
L3	-1.68E+03	1.11E+03	-1.66E+03	1.09E+03
L4	-1.67E+03	1.33E+03	-1.50E+03	974.
NF	—	—	—	—
NS	-127.	218.	-116.	210.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-238. Time history of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

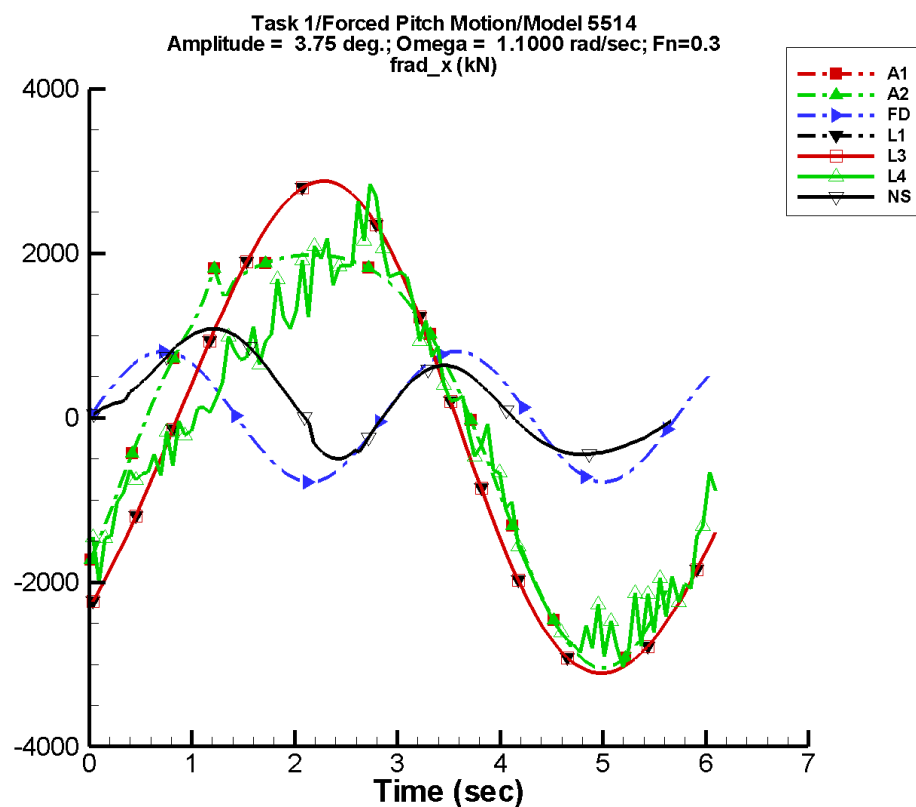
Table F-475. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-25.7	1.67E+03	-44	227.	-1
A2	-25.7	1.67E+03	-44	227.	-1
FD	—	—	—	—	—
L1	-263.	1.99E+03	-49	62.8	108
L3	-263.	1.99E+03	-49	62.8	108
L4	-298.	1.55E+03	-58	337.	42
NF	—	—	—	—	—
NS	96.2	125.	-4	253.	-26

Table F-476. Minimum and maximum of of F_x^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.92E+03	1.43E+03	-1.84E+03	1.40E+03
A2	-1.92E+03	1.43E+03	-1.84E+03	1.40E+03
FD	—	—	—	—
L1	-2.23E+03	1.76E+03	-2.21E+03	1.73E+03
L3	-2.23E+03	1.76E+03	-2.21E+03	1.73E+03
L4	-2.13E+03	1.70E+03	-1.97E+03	1.45E+03
NF	—	—	—	—
NS	-260.	475.	-187.	462.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-239. Time history of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

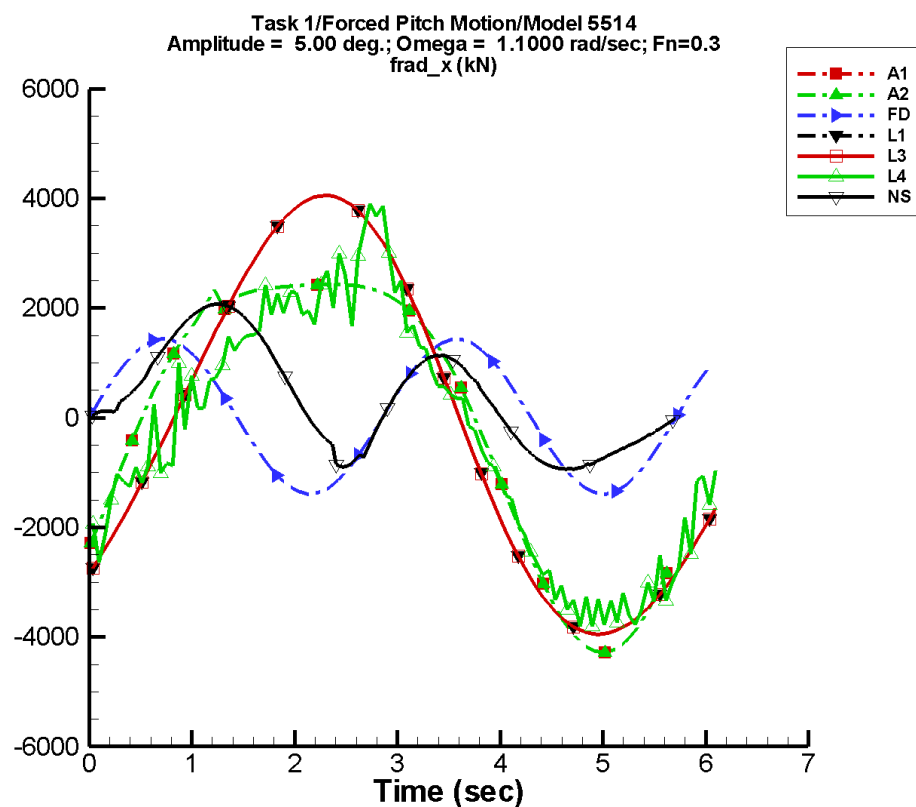
Table F-477. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-49.6	2.50E+03	-44	497.	1
A2	-49.6	2.50E+03	-44	497.	1
FD	—	—	—	—	—
L1	-178.	2.98E+03	-49	141.	108
L3	-178.	2.98E+03	-49	141.	108
L4	-260.	2.30E+03	-56	462.	48
NF	—	—	—	—	—
NS	189.	366.	-5	529.	-26

Table F-478. Minimum and maximum of F_x^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.05E+03	1.98E+03	-2.91E+03	1.95E+03
A2	-3.05E+03	1.98E+03	-2.91E+03	1.95E+03
FD	—	—	—	—
L1	-3.11E+03	2.88E+03	-3.08E+03	2.84E+03
L3	-3.11E+03	2.88E+03	-3.08E+03	2.84E+03
L4	-3.04E+03	2.84E+03	-2.70E+03	2.23E+03
NF	—	—	—	—
NS	-500.	1.11E+03	-469.	1.09E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from FREDYN and NFA.

Figure F-240. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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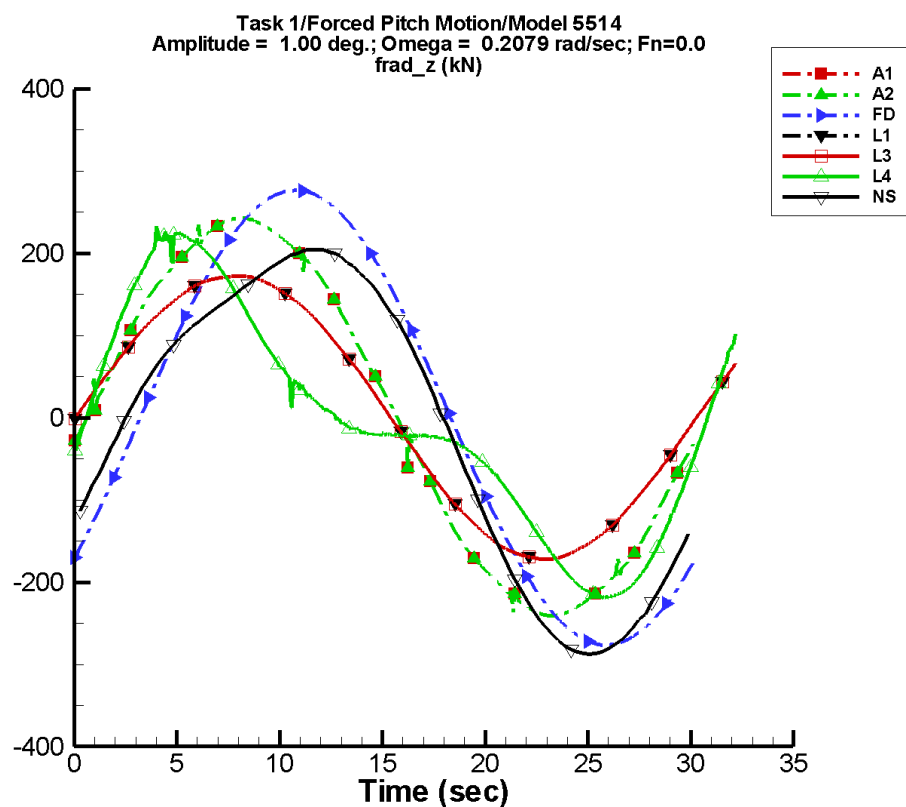
Table F-479. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-80.8	3.33E+03	-45	874.	2
A2	-80.8	3.33E+03	-45	874.	2
FD	—	—	—	—	—
L1	-58.3	3.98E+03	-49	251.	108
L3	-58.4	3.98E+03	-49	251.	108
L4	-264.	3.08E+03	-54	524.	43
NF	—	—	—	—	—
NS	334.	815.	-6	861.	-26

Table F-480. Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.29E+03	2.43E+03	-4.08E+03	2.42E+03
A2	-4.29E+03	2.43E+03	-4.08E+03	2.42E+03
FD	—	—	—	—
L1	-3.95E+03	4.05E+03	-3.91E+03	4.01E+03
L3	-3.95E+03	4.05E+03	-3.91E+03	4.01E+03
L4	-3.81E+03	4.16E+03	-3.54E+03	3.17E+03
NF	—	—	—	—
NS	-944.	2.11E+03	-932.	2.09E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-241. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

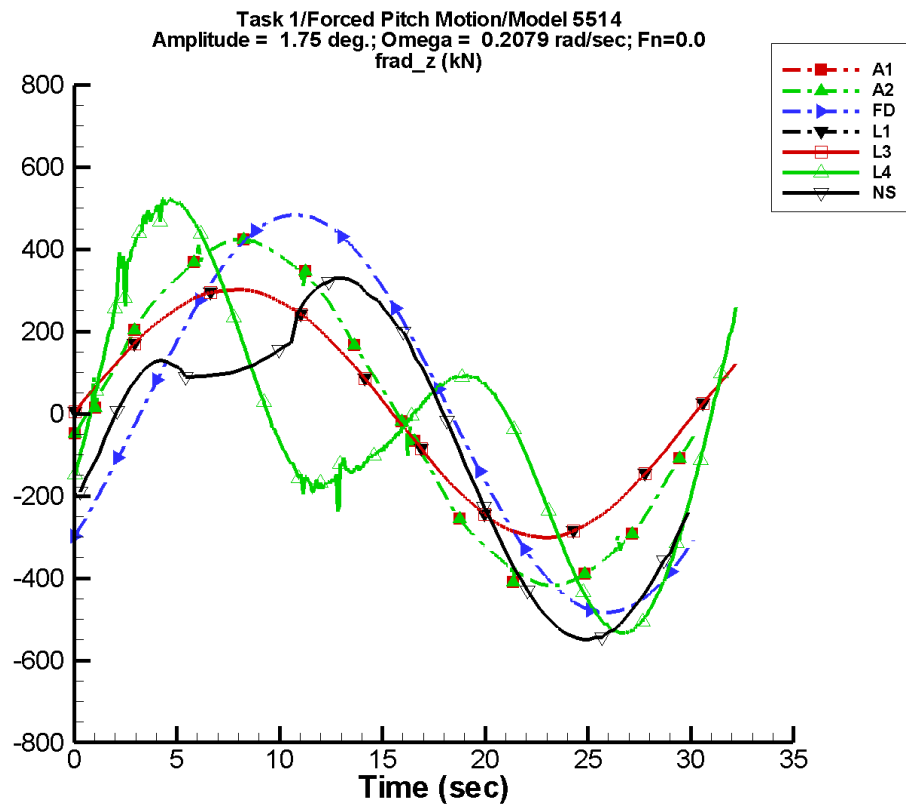
Table F-481. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.422	239.	-7	0.438	-104
A2	0.422	239.	-7	0.438	-104
FD	-4.46E-05	276.	-38	1.86E-03	94
L1	2.30	172.	-2	2.21	103
L3	2.30	172.	-2	2.21	103
L4	-8.59	161.	-3	91.4	-12
NF	—	—	—	—	—
NS	-17.9	241.	-34	33.1	58

Table F-482. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-241.	243.	-240.	242.
A2	-241.	243.	-240.	242.
FD	-276.	276.	-276.	276.
L1	-172.	173.	-172.	173.
L3	-172.	173.	-172.	173.
L4	-219.	233.	-218.	223.
NF	—	—	—	—
NS	-288.	209.	-284.	206.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-242. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

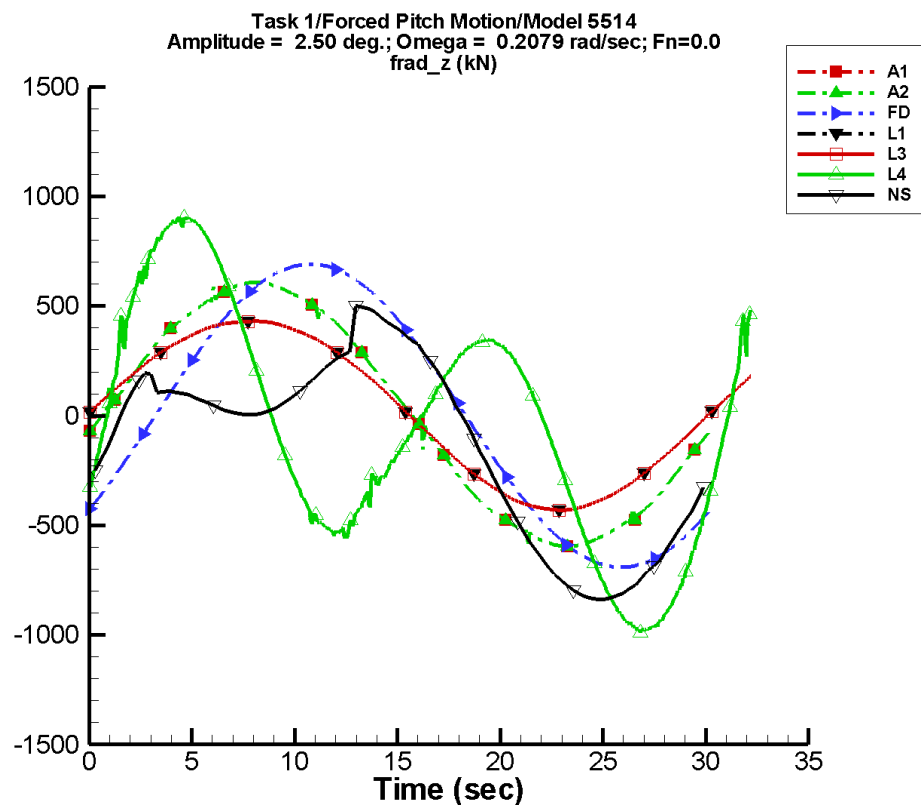
Table F-483. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.32	417.	-7	1.33	-98
A2	1.32	417.	-7	1.33	-98
FD	-1.18E-04	484.	-38	9.98E-03	94
L1	7.10	301.	-2	6.85	95
L3	7.10	301.	-2	6.85	95
L4	-31.2	249.	-4	330.	-13
NF	—	—	—	—	—
NS	-71.0	383.	-35	127.	60

Table F-484. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-418.	424.	-418.	424.
A2	-418.	424.	-418.	424.
FD	-484.	484.	-483.	483.
L1	-301.	302.	-301.	302.
L3	-301.	302.	-301.	302.
L4	-533.	526.	-533.	517.
NF	—	—	—	—
NS	-549.	335.	-542.	326.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-243. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

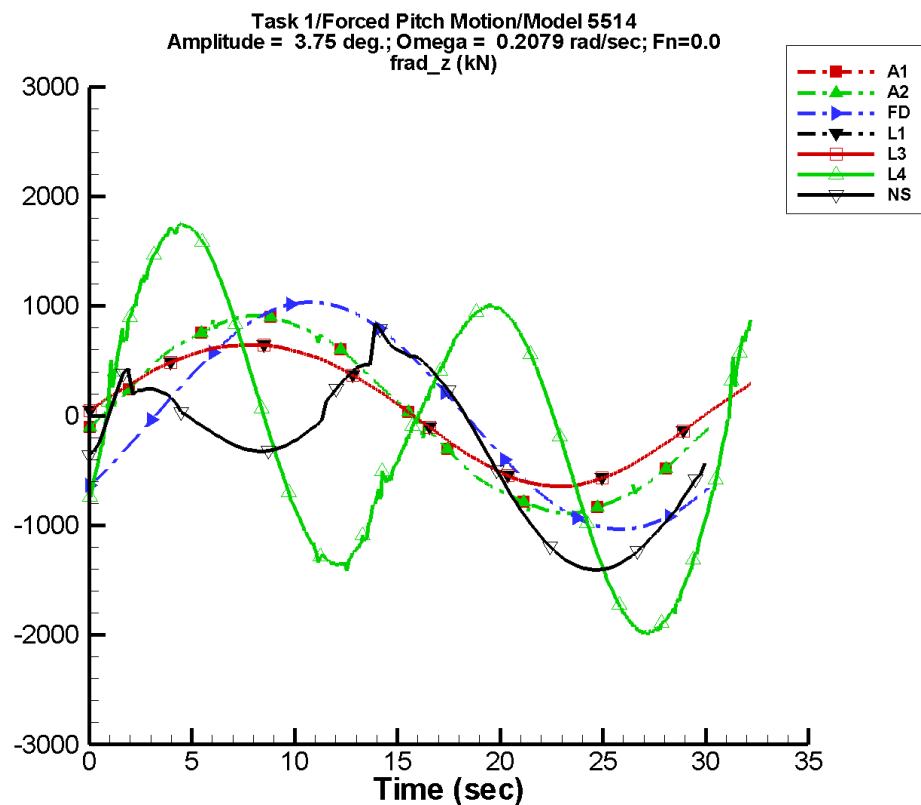
Table F-485. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.72	596.	-7	2.72	-95
A2	2.72	596.	-7	2.72	-95
FD	-1.20E-04	691.	-38	2.91E-02	94
L1	14.5	430.	-2	14.1	92
L3	14.5	430.	-2	14.1	92
L4	-63.7	316.	-5	691.	-14
NF	—	—	—	—	—
NS	-139.	503.	-36	260.	57

Table F-486. Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-596.	608.	-595.	607.
A2	-596.	608.	-595.	607.
FD	-691.	691.	-690.	690.
L1	-430.	432.	-430.	431.
L3	-430.	432.	-430.	431.
L4	-988.	908.	-978.	896.
NF	—	—	—	—
NS	-837.	507.	-826.	448.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-244. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

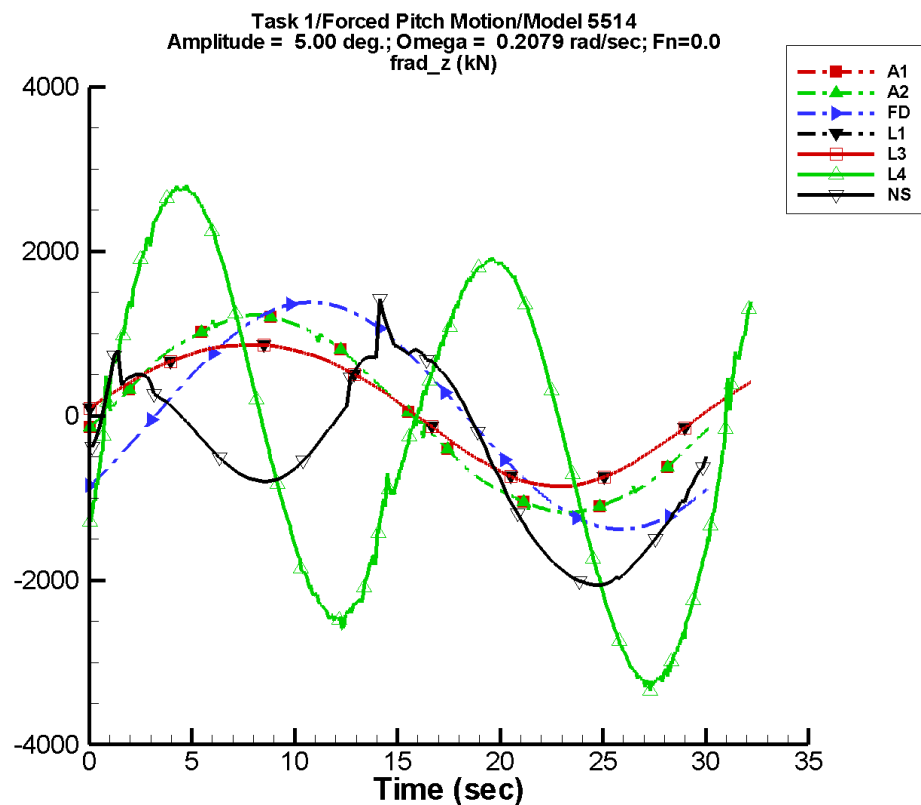
Table F-487. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.16	893.	-7	6.12	-93
A2	6.16	893.	-7	6.12	-93
FD	-4.29E-04	1.04E+03	-38	9.82E-02	94
L1	32.8	645.	-2	32.1	90
L3	32.8	645.	-2	32.1	90
L4	-137.	404.	-8	1.52E+03	-15
NF	—	—	—	—	—
NS	-305.	664.	-37	570.	57

Table F-488. Minimum and maximum of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-889.	915.	-888.	914.
A2	-889.	915.	-888.	914.
FD	-1.04E+03	1.04E+03	-1.03E+03	1.03E+03
L1	-646.	648.	-645.	647.
L3	-646.	648.	-645.	647.
L4	-2.00E+03	1.75E+03	-1.98E+03	1.73E+03
NF	—	—	—	—
NS	-1.41E+03	846.	-1.39E+03	649.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-245. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

TASK 1/PITCH MOTION/MODEL 5514

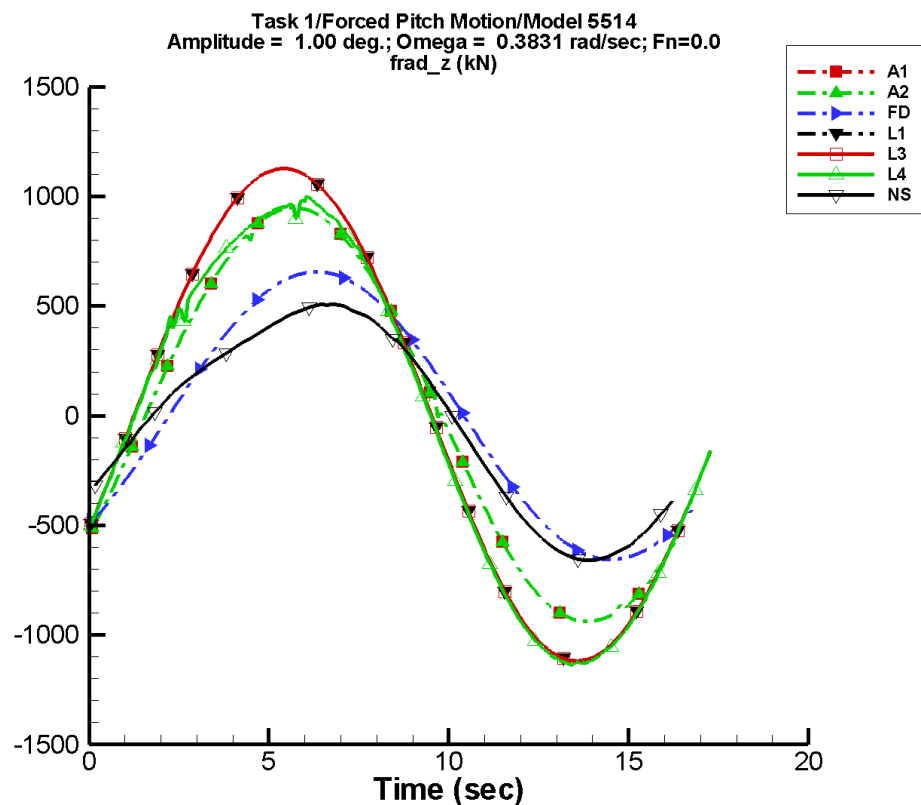
Table F-489. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	11.0	1.19E+03	-7	10.9	-92
A2	11.0	1.19E+03	-7	10.9	-92
FD	-8.81E-04	1.38E+03	-38	0.233	94
L1	58.3	861.	-2	57.5	89
L3	58.3	861.	-2	57.5	89
L4	-233.	471.	-11	2.59E+03	-16
NF	—	—	—	—	—
NS	-491.	807.	-39	971.	57

Table F-490. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.18E+03	1.23E+03	-1.18E+03	1.22E+03
A2	-1.18E+03	1.23E+03	-1.18E+03	1.22E+03
FD	-1.38E+03	1.38E+03	-1.38E+03	1.38E+03
L1	-861.	863.	-860.	863.
L3	-861.	863.	-860.	863.
L4	-3.35E+03	2.80E+03	-3.26E+03	2.76E+03
NF	—	—	—	—
NS	-2.06E+03	1.42E+03	-2.05E+03	988.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-246. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

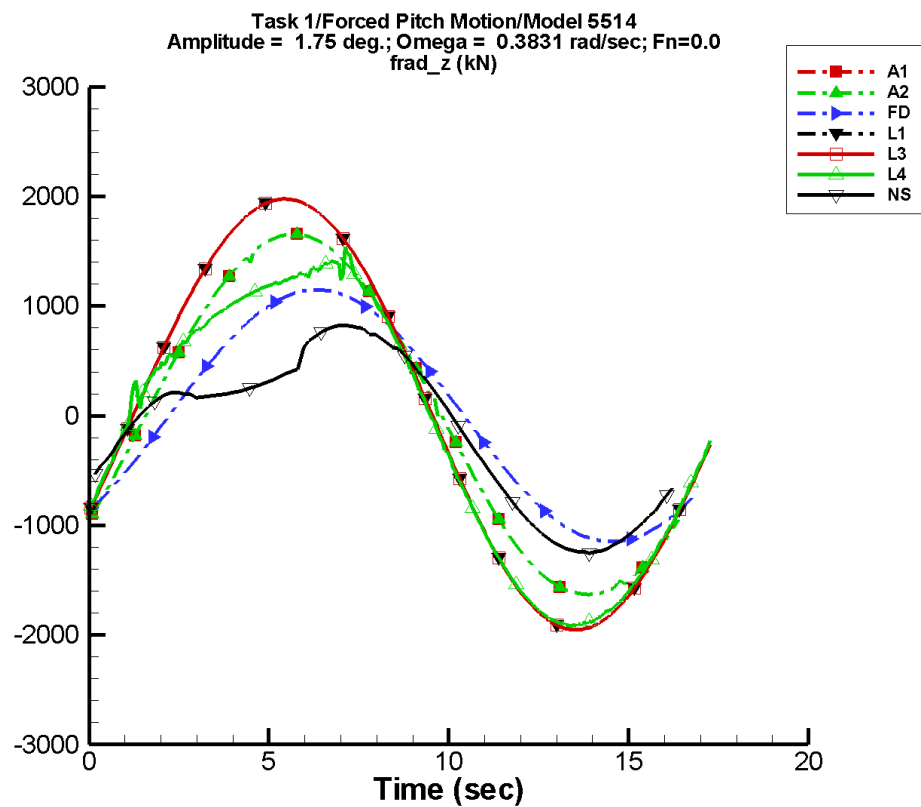
Table F-491. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.28	944.	-35	2.10	-16
A2	1.28	944.	-35	2.10	-16
FD	1.32E-03	656.	-49	2.48E-03	128
L1	9.65	1.12E+03	-28	9.21	84
L3	9.65	1.12E+03	-28	9.21	84
L4	-39.0	1.06E+03	-29	56.7	62
NF	—	—	—	—	—
NS	-35.5	564.	-41	72.4	54

Table F-492. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-938.	949.	-935.	945.
A2	-938.	949.	-935.	945.
FD	-656.	656.	-656.	654.
L1	-1.12E+03	1.13E+03	-1.12E+03	1.13E+03
L3	-1.12E+03	1.13E+03	-1.12E+03	1.13E+03
L4	-1.14E+03	1.00E+03	-1.13E+03	979.
NF	—	—	—	—
NS	-659.	510.	-651.	503.

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-247. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

TASK 1/PITCH MOTION/MODEL 5514

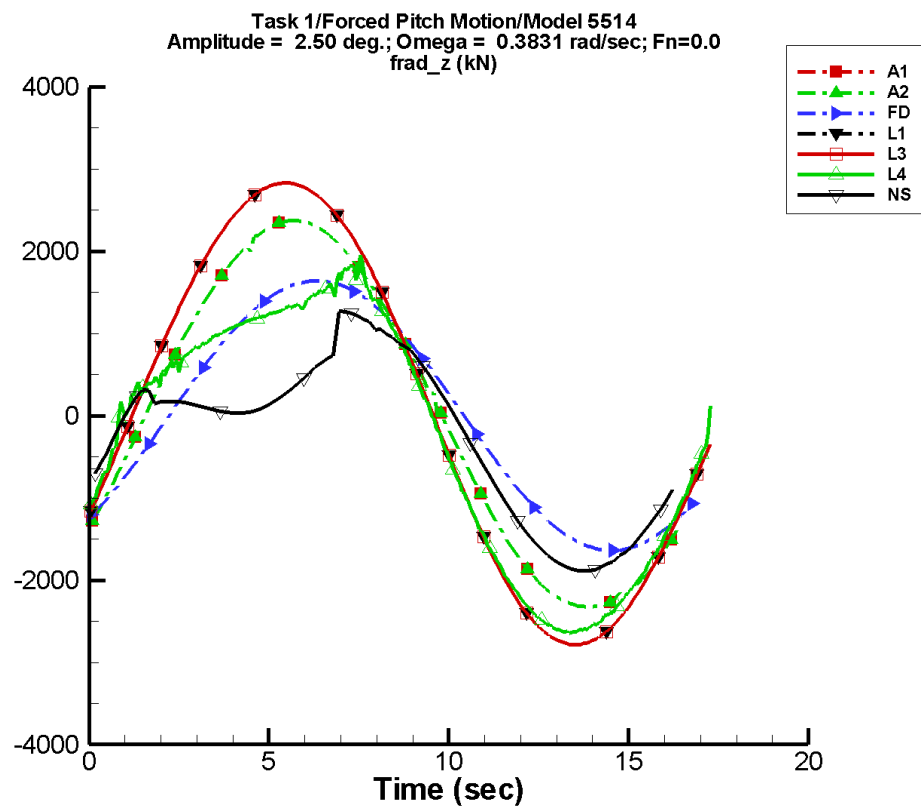
Table F-493. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.66	1.64E+03	-35	4.59	-48
A2	4.66	1.64E+03	-35	4.59	-48
FD	7.28E-03	1.15E+03	-49	1.38E-02	127
L1	29.2	1.96E+03	-28	28.6	84
L3	29.2	1.96E+03	-28	28.6	84
L4	-139.	1.64E+03	-29	221.	62
NF	—	—	—	—	—
NS	-146.	901.	-43	280.	55

Table F-494. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.63E+03	1.66E+03	-1.63E+03	1.65E+03
A2	-1.63E+03	1.66E+03	-1.63E+03	1.65E+03
FD	-1.15E+03	1.15E+03	-1.15E+03	1.14E+03
L1	-1.95E+03	1.98E+03	-1.95E+03	1.97E+03
L3	-1.95E+03	1.98E+03	-1.95E+03	1.97E+03
L4	-1.92E+03	1.54E+03	-1.91E+03	1.39E+03
NF	—	—	—	—
NS	-1.25E+03	827.	-1.23E+03	807.

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Data identically zero, insufficient, or not available from NFA.

Figure F-248. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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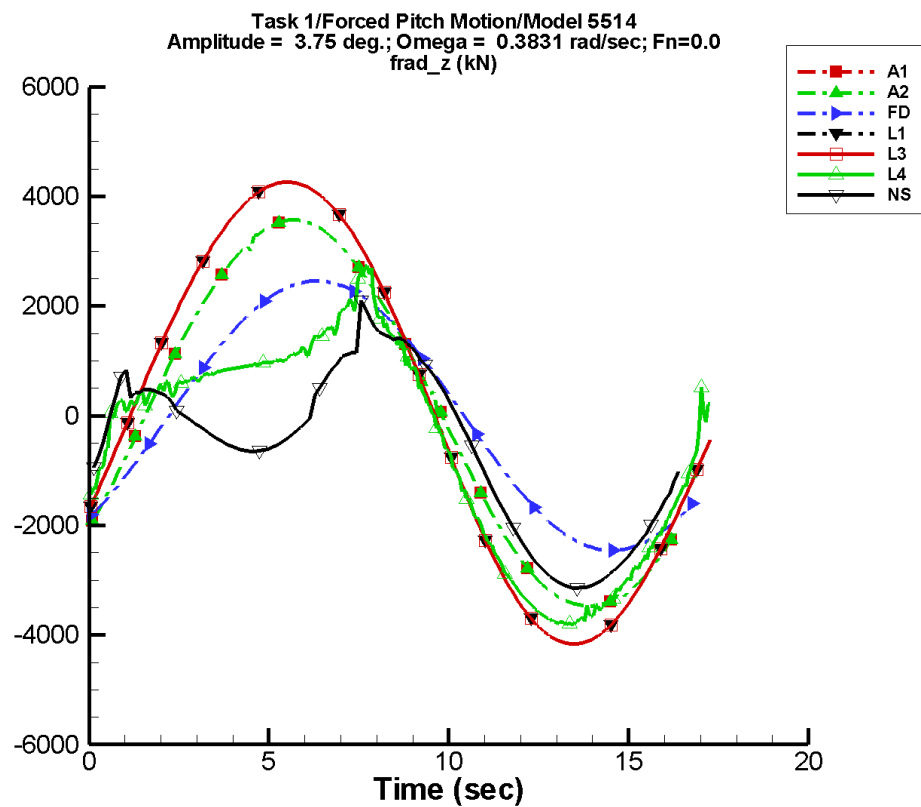
Table F-495. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	10.2	2.35E+03	-35	9.18	-66
A2	10.2	2.35E+03	-35	9.18	-66
FD	2.13E-02	1.64E+03	-49	4.02E-02	127
L1	59.3	2.81E+03	-28	58.6	84
L3	59.3	2.81E+03	-28	58.6	84
L4	-276.	2.08E+03	-30	444.	62
NF	—	—	—	—	—
NS	-275.	1.19E+03	-44	575.	52

Table F-496. Minimum and maximum of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.32E+03	2.37E+03	-2.32E+03	2.36E+03
A2	-2.32E+03	2.37E+03	-2.32E+03	2.36E+03
FD	-1.64E+03	1.64E+03	-1.64E+03	1.63E+03
L1	-2.78E+03	2.83E+03	-2.78E+03	2.83E+03
L3	-2.78E+03	2.83E+03	-2.78E+03	2.83E+03
L4	-2.65E+03	1.95E+03	-2.63E+03	1.79E+03
NF	—	—	—	—
NS	-1.89E+03	1.27E+03	-1.86E+03	1.14E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-249. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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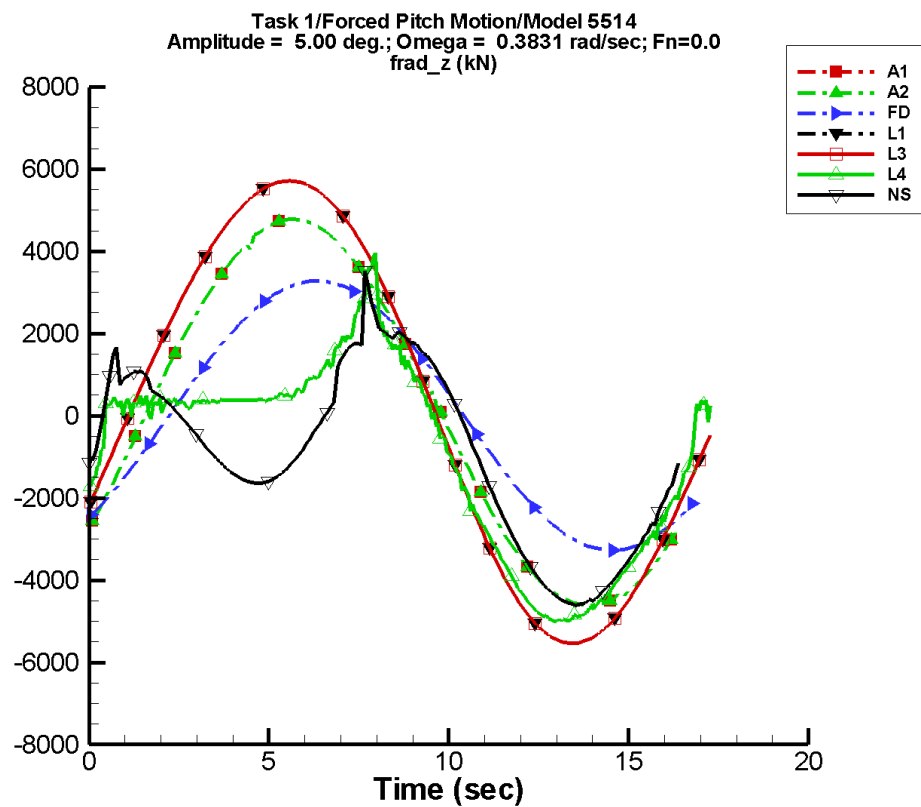
Table F-497. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	24.1	3.52E+03	-35	21.7	-80
A2	24.1	3.52E+03	-35	21.7	-80
FD	7.20E-02	2.46E+03	-49	0.135	127
L1	133.	4.21E+03	-28	132.	83
L3	133.	4.21E+03	-28	132.	83
L4	-577.	2.60E+03	-31	908.	63
NF	—	—	—	—	—
NS	-617.	1.57E+03	-44	1.27E+03	51

Table F-498. Minimum and maximum of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.47E+03	3.57E+03	-3.46E+03	3.56E+03
A2	-3.47E+03	3.57E+03	-3.46E+03	3.56E+03
FD	-2.46E+03	2.46E+03	-2.46E+03	2.45E+03
L1	-4.16E+03	4.26E+03	-4.16E+03	4.26E+03
L3	-4.16E+03	4.26E+03	-4.16E+03	4.26E+03
L4	-3.81E+03	2.73E+03	-3.79E+03	2.53E+03
NF	—	—	—	—
NS	-3.15E+03	2.10E+03	-3.12E+03	1.61E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-250. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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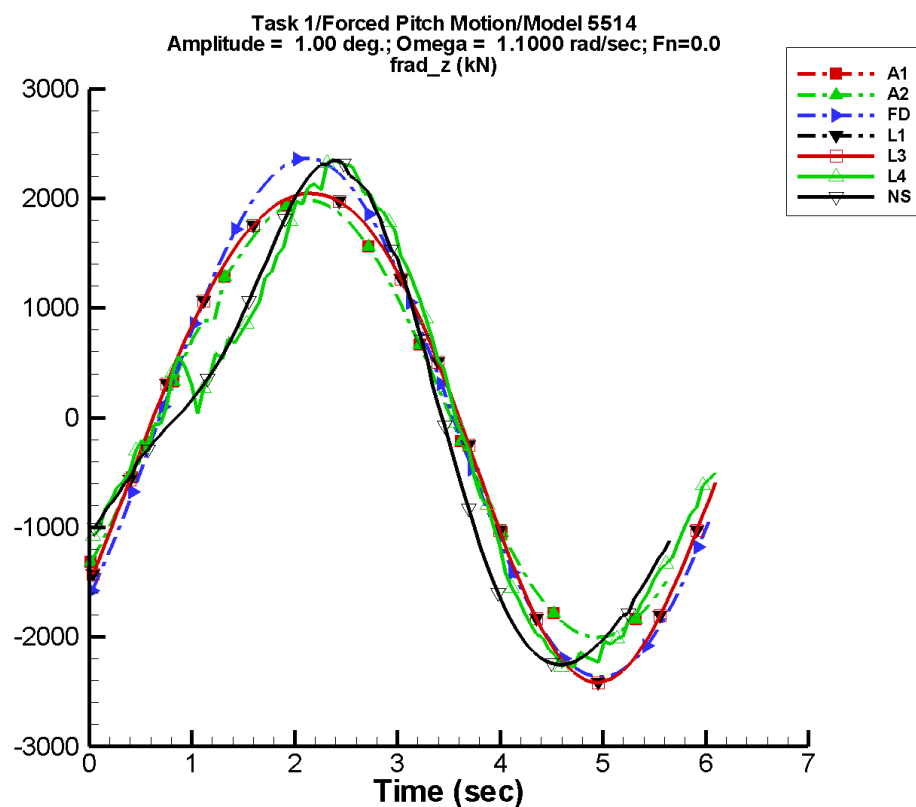
Table F-499. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	43.9	4.70E+03	-35	40.2	-86
A2	43.9	4.70E+03	-35	40.2	-86
FD	0.171	3.28E+03	-49	0.322	127
L1	236.	5.61E+03	-28	236.	83
L3	236.	5.61E+03	-28	236.	83
L4	-967.	2.95E+03	-32	1.45E+03	63
NF	—	—	—	—	—
NS	-974.	1.92E+03	-46	2.16E+03	51

Table F-500. Minimum and maximum of of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.61E+03	4.78E+03	-4.60E+03	4.76E+03
A2	-4.61E+03	4.78E+03	-4.60E+03	4.76E+03
FD	-3.28E+03	3.28E+03	-3.27E+03	3.26E+03
L1	-5.54E+03	5.71E+03	-5.53E+03	5.71E+03
L3	-5.54E+03	5.71E+03	-5.53E+03	5.71E+03
L4	-5.00E+03	3.97E+03	-4.98E+03	3.33E+03
NF	—	—	—	—
NS	-4.61E+03	3.52E+03	-4.56E+03	2.44E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-251. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

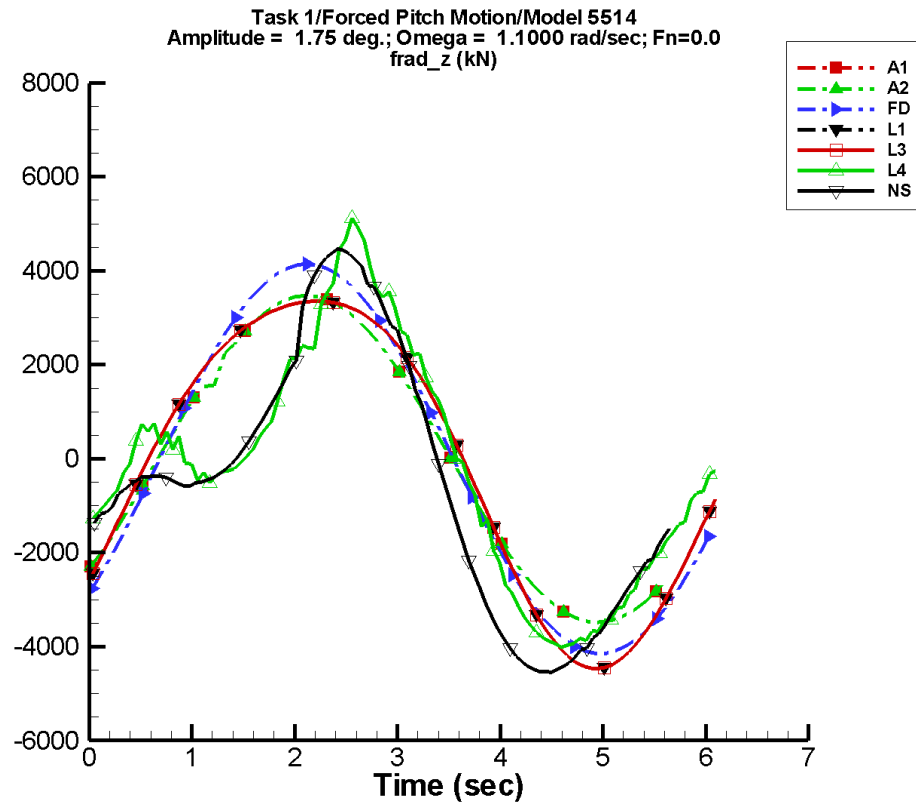
Table F-501. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-15.8	1.99E+03	-43	29.8	92
A2	-15.8	1.99E+03	-43	29.8	92
FD	4.56E-03	2.37E+03	-44	2.07E-02	54
L1	-18.5	2.23E+03	-43	169.	16
L3	-18.5	2.23E+03	-43	169.	16
L4	-39.2	2.05E+03	-47	489.	85
NF	—	—	—	—	—
NS	-120.	2.08E+03	-43	536.	110

Table F-502. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.00E+03	1.99E+03	-1.94E+03	1.92E+03
A2	-2.00E+03	1.99E+03	-1.94E+03	1.92E+03
FD	-2.37E+03	2.37E+03	-2.29E+03	2.30E+03
L1	-2.42E+03	2.05E+03	-2.38E+03	2.04E+03
L3	-2.42E+03	2.05E+03	-2.38E+03	2.04E+03
L4	-2.28E+03	2.37E+03	-2.20E+03	2.26E+03
NF	—	—	—	—
NS	-2.25E+03	2.38E+03	-2.23E+03	2.32E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-252. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

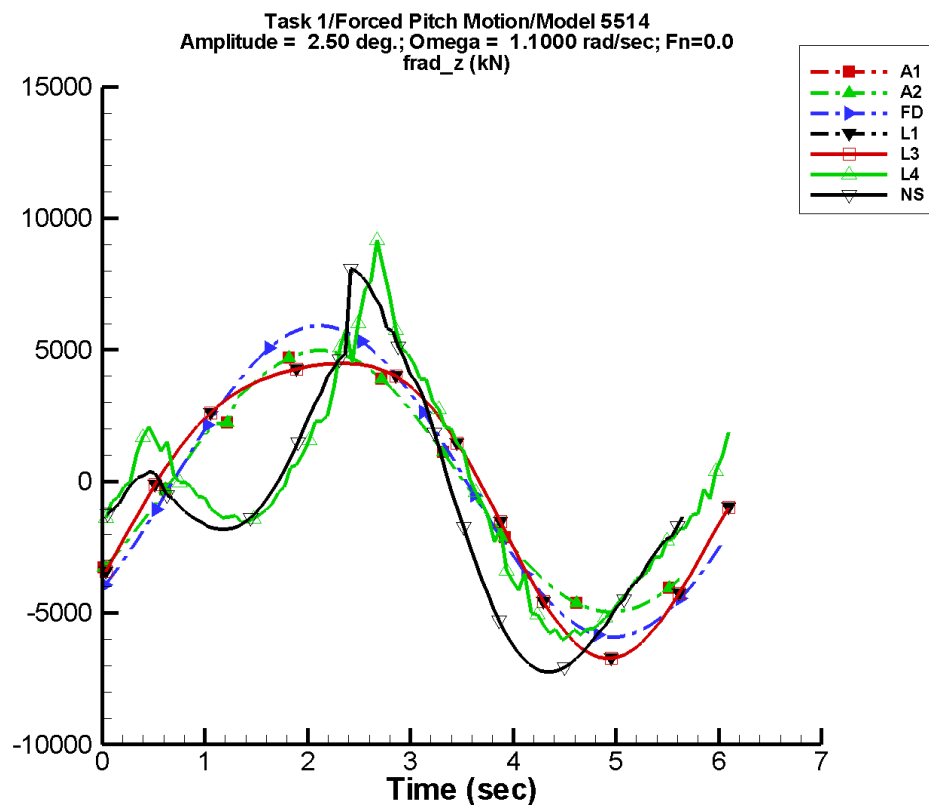
Table F-503. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-23.2	3.46E+03	-43	48.5	101
A2	-23.2	3.46E+03	-43	48.5	101
FD	2.42E-02	4.14E+03	-44	0.110	55
L1	-56.8	3.91E+03	-43	515.	16
L3	-56.8	3.91E+03	-43	515.	16
L4	-151.	3.14E+03	-51	1.67E+03	79
NF	—	—	—	—	—
NS	-551.	3.36E+03	-43	1.70E+03	103

Table F-504. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.48E+03	3.47E+03	-3.38E+03	3.36E+03
A2	-3.48E+03	3.47E+03	-3.38E+03	3.36E+03
FD	-4.14E+03	4.14E+03	-4.01E+03	4.03E+03
L1	-4.47E+03	3.37E+03	-4.40E+03	3.35E+03
L3	-4.47E+03	3.37E+03	-4.40E+03	3.35E+03
L4	-4.01E+03	5.18E+03	-3.90E+03	4.39E+03
NF	—	—	—	—
NS	-4.56E+03	4.50E+03	-4.48E+03	4.33E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-253. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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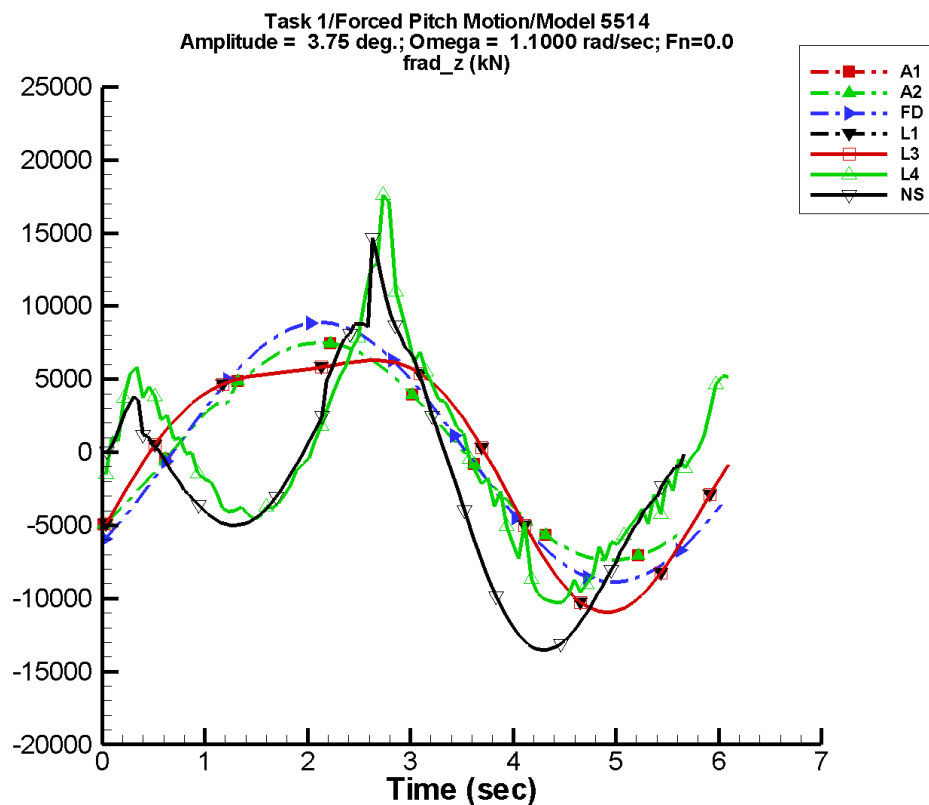
Table F–505. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-26.7	4.95E+03	-43	66.2	111
A2	-26.7	4.95E+03	-43	66.2	111
FD	7.11E-02	5.92E+03	-44	0.320	55
L1	-116.	5.58E+03	-43	1.05E+03	16
L3	-116.	5.58E+03	-43	1.05E+03	16
L4	-250.	4.03E+03	-53	3.32E+03	77
NF	—	—	—	—	—
NS	-998.	4.46E+03	-42	3.43E+03	98

Table F–506. Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.96E+03	4.98E+03	-4.81E+03	4.82E+03
A2	-4.96E+03	4.98E+03	-4.81E+03	4.82E+03
FD	-5.91E+03	5.92E+03	-5.73E+03	5.75E+03
L1	-6.72E+03	4.51E+03	-6.62E+03	4.49E+03
L3	-6.72E+03	4.51E+03	-6.62E+03	4.49E+03
L4	-6.02E+03	9.18E+03	-5.75E+03	7.05E+03
NF	—	—	—	—
NS	-7.29E+03	8.11E+03	-7.16E+03	6.91E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-254. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

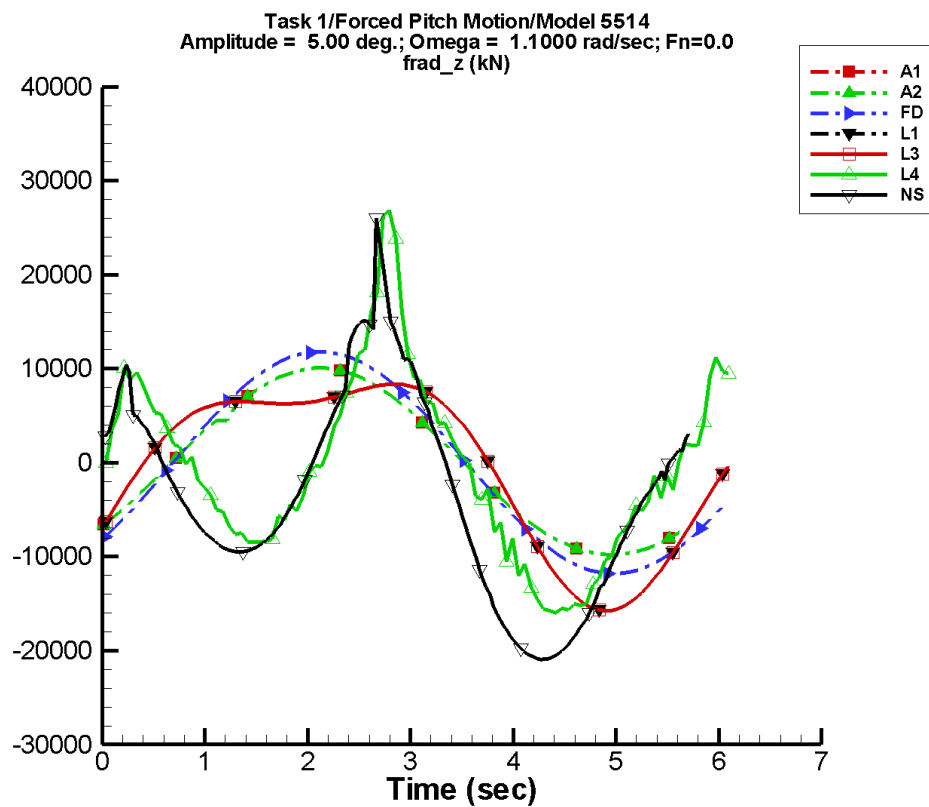
Table F–507. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-24.1	7.41E+03	-43	98.9	129
A2	-24.1	7.41E+03	-43	98.9	129
FD	0.240	8.87E+03	-44	1.08	55
L1	-261.	8.37E+03	-43	2.36E+03	17
L3	-261.	8.37E+03	-43	2.36E+03	17
L4	-362.	5.23E+03	-54	6.96E+03	76
NF	—	—	—	—	—
NS	-2.36E+03	6.00E+03	-36	7.15E+03	94

Table F–508. Minimum and maximum of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.38E+03	7.51E+03	-7.17E+03	7.27E+03
A2	-7.38E+03	7.51E+03	-7.17E+03	7.27E+03
FD	-8.86E+03	8.87E+03	-8.59E+03	8.62E+03
L1	-1.10E+04	6.32E+03	-1.08E+04	6.25E+03
L3	-1.10E+04	6.32E+03	-1.08E+04	6.25E+03
L4	-1.03E+04	1.76E+04	-9.73E+03	1.30E+04
NF	—	—	—	—
NS	-1.37E+04	1.47E+04	-1.35E+04	1.08E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-255. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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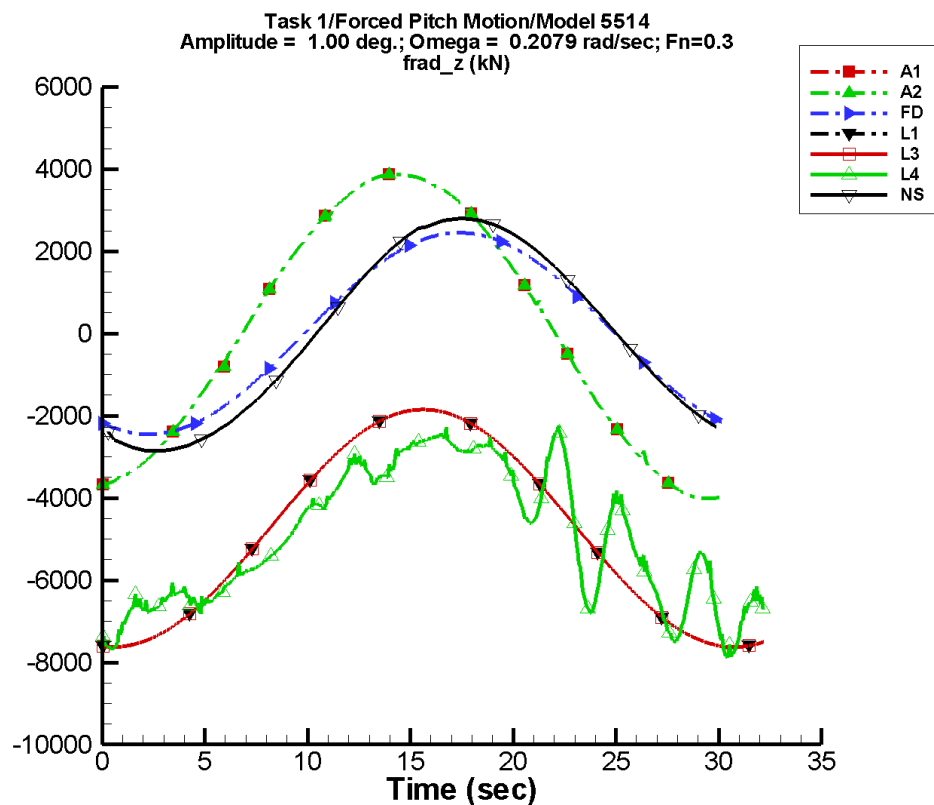
Table F-509. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-10.7	9.89E+03	-43	144.	145
A2	-10.7	9.89E+03	-43	144.	145
FD	0.569	1.18E+04	-44	2.55	55
L1	-465.	1.12E+04	-43	4.18E+03	17
L3	-465.	1.12E+04	-43	4.18E+03	17
L4	-829.	6.54E+03	-48	1.18E+04	75
NF	—	—	—	—	—
NS	-3.66E+03	7.65E+03	-31	1.24E+04	93

Table F-510. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.79E+03	1.01E+04	-9.50E+03	9.75E+03
A2	-9.79E+03	1.01E+04	-9.50E+03	9.75E+03
FD	-1.18E+04	1.18E+04	-1.14E+04	1.15E+04
L1	-1.58E+04	8.39E+03	-1.55E+04	8.45E+03
L3	-1.58E+04	8.39E+03	-1.55E+04	8.45E+03
L4	-1.60E+04	2.69E+04	-1.54E+04	1.93E+04
NF	—	—	—	—
NS	-2.13E+04	2.60E+04	-2.11E+04	1.84E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-256. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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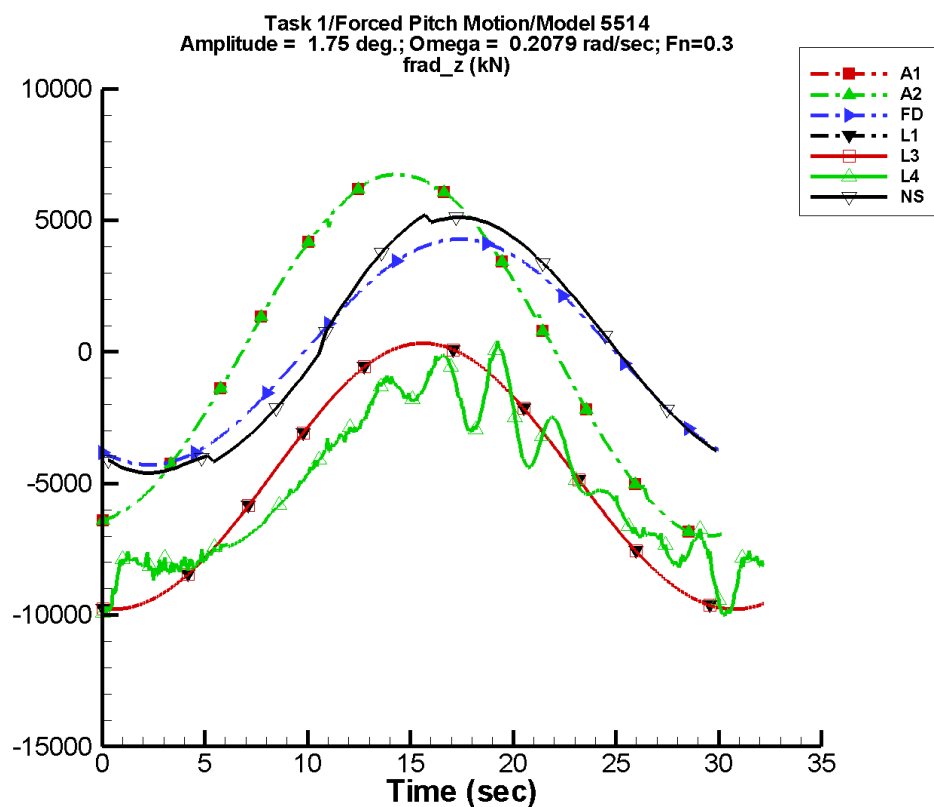
Table F-511. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-7.83	3.90E+03	-82	31.0	-42
A2	-7.83	3.90E+03	-82	31.0	-42
FD	-6.49E-03	2.45E+03	-117	1.36E-02	17
L1	-4.76E+03	2.89E+03	-96	20.8	85
L3	-4.76E+03	2.89E+03	-96	20.8	85
L4	-4.85E+03	2.10E+03	-106	99.9	63
NF	—	—	—	—	—
NS	-42.3	2.85E+03	-122	83.3	86

Table F-512. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.01E+03	3.87E+03	-4.01E+03	3.86E+03
A2	-4.01E+03	3.87E+03	-4.01E+03	3.86E+03
FD	-2.45E+03	2.45E+03	-2.45E+03	2.45E+03
L1	-7.63E+03	-1.85E+03	-7.63E+03	-1.85E+03
L3	-7.63E+03	-1.85E+03	-7.63E+03	-1.85E+03
L4	-7.88E+03	-2.24E+03	-7.79E+03	-2.45E+03
NF	—	—	—	—
NS	-2.92E+03	2.90E+03	-2.90E+03	2.86E+03

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-257. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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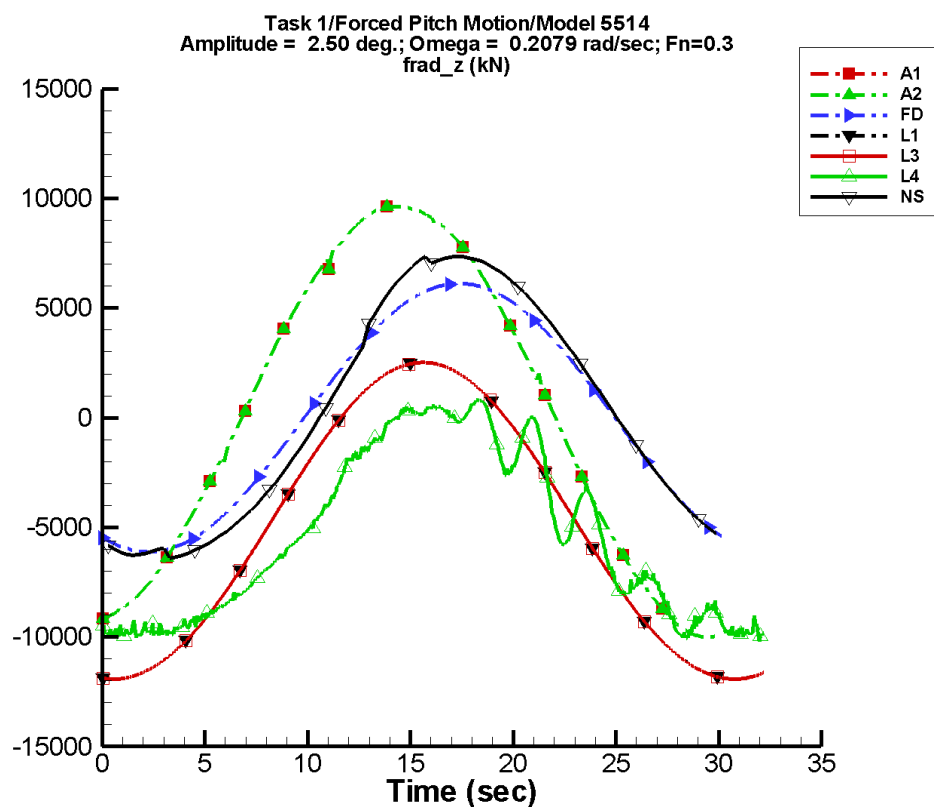
Table F–513. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.69	6.80E+03	-82	56.0	-46
A2	-9.69	6.80E+03	-82	56.0	-46
FD	-3.39E-02	4.29E+03	-117	7.07E-02	18
L1	-4.79E+03	5.05E+03	-96	63.6	85
L3	-4.79E+03	5.05E+03	-96	63.6	85
L4	-5.06E+03	3.73E+03	-108	355.	62
NF	—	—	—	—	—
NS	137.	5.00E+03	-121	371.	75

Table F–514. Minimum and maximum of of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.99E+03	6.74E+03	-6.99E+03	6.74E+03
A2	-6.99E+03	6.74E+03	-6.99E+03	6.74E+03
FD	-4.29E+03	4.29E+03	-4.28E+03	4.28E+03
L1	-9.78E+03	331.	-9.78E+03	329.
L3	-9.78E+03	332.	-9.78E+03	330.
L4	-1.00E+04	423.	-9.93E+03	110.
NF	—	—	—	—
NS	-4.62E+03	5.37E+03	-4.56E+03	5.27E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-258. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

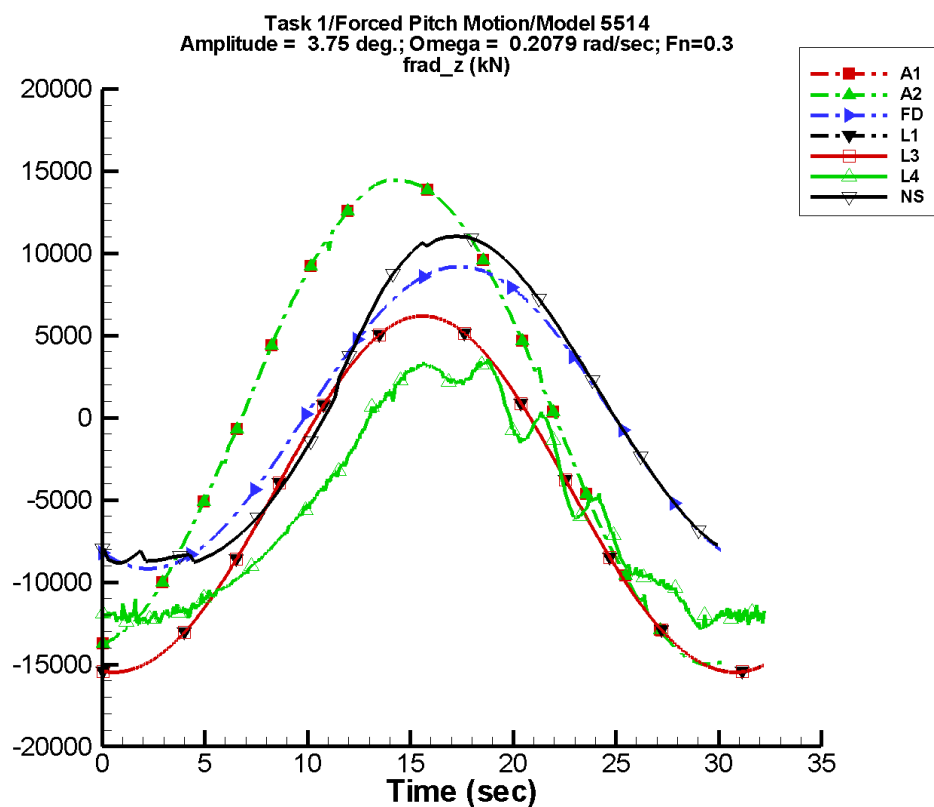
Table F–515. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.15	9.72E+03	-82	83.3	-50
A2	-8.15	9.72E+03	-82	83.3	-50
FD	-9.86E-02	6.12E+03	-117	0.206	18
L1	-4.83E+03	7.22E+03	-96	130.	85
L3	-4.83E+03	7.22E+03	-96	130.	85
L4	-5.22E+03	5.19E+03	-109	617.	57
NF	—	—	—	—	—
NS	187.	7.00E+03	-122	554.	59

Table F–516. Minimum and maximum of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.00E+04	9.64E+03	-9.99E+03	9.63E+03
A2	-1.00E+04	9.64E+03	-9.99E+03	9.63E+03
FD	-6.12E+03	6.12E+03	-6.12E+03	6.12E+03
L1	-1.19E+04	2.52E+03	-1.19E+04	2.52E+03
L3	-1.19E+04	2.52E+03	-1.19E+04	2.52E+03
L4	-1.02E+04	819.	-9.95E+03	763.
NF	—	—	—	—
NS	-6.47E+03	7.65E+03	-6.24E+03	7.58E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-259. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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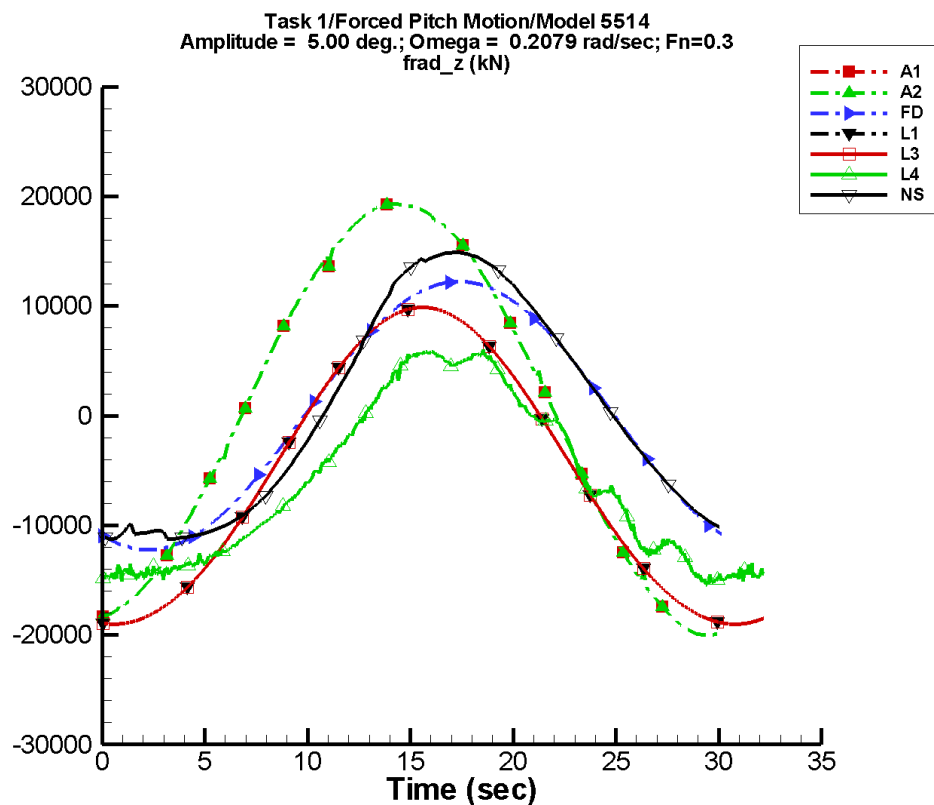
Table F-517. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.07	1.46E+04	-82	134.	-55
A2	2.07	1.46E+04	-82	134.	-55
FD	-0.334	9.18E+03	-117	0.696	18
L1	-4.93E+03	1.08E+04	-96	292.	85
L3	-4.93E+03	1.08E+04	-96	292.	85
L4	-5.59E+03	7.65E+03	-109	1.05E+03	42
NF	—	—	—	—	—
NS	322.	1.02E+04	-122	1.11E+03	55

Table F-518. Minimum and maximum of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.50E+04	1.45E+04	-1.50E+04	1.44E+04
A2	-1.50E+04	1.45E+04	-1.50E+04	1.44E+04
FD	-9.18E+03	9.18E+03	-9.17E+03	9.17E+03
L1	-1.55E+04	6.19E+03	-1.55E+04	6.18E+03
L3	-1.55E+04	6.19E+03	-1.55E+04	6.18E+03
L4	-1.29E+04	3.55E+03	-1.26E+04	3.34E+03
NF	—	—	—	—
NS	-8.84E+03	1.16E+04	-8.61E+03	1.15E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-260. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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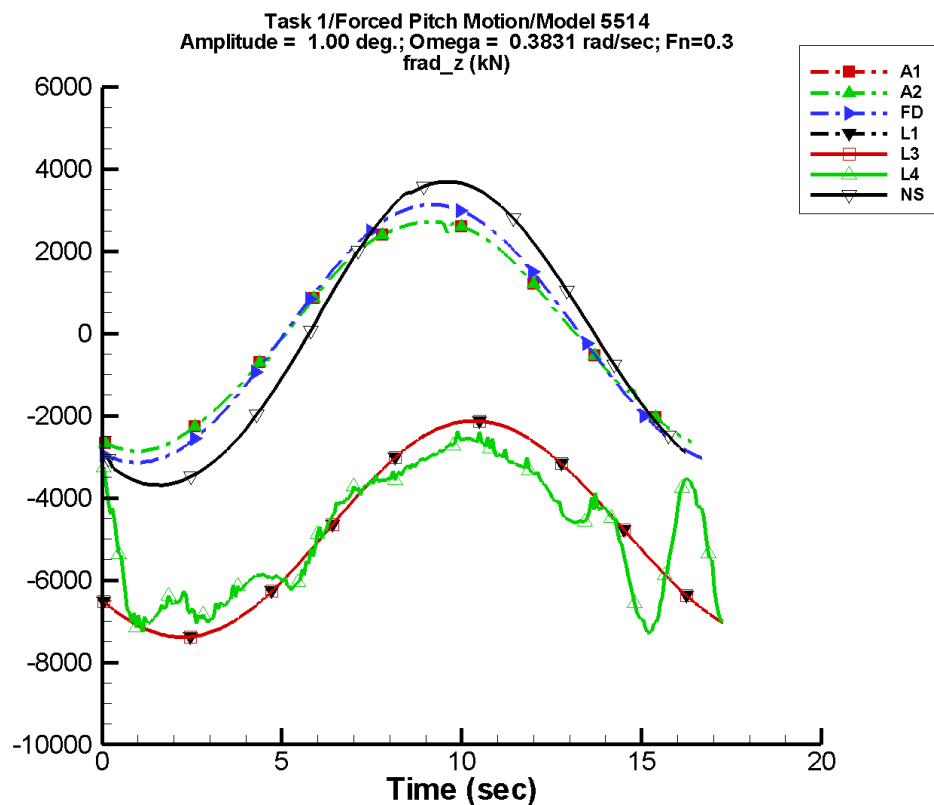
Table F–519. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	22.0	1.95E+04	-82	193.	-60
A2	22.0	1.95E+04	-82	193.	-60
FD	-0.792	1.22E+04	-117	1.65	18
L1	-5.08E+03	1.44E+04	-96	520.	85
L3	-5.08E+03	1.44E+04	-96	520.	85
L4	-5.89E+03	1.01E+04	-111	1.52E+03	36
NF	—	—	—	—	—
NS	525.	1.33E+04	-122	1.80E+03	54

Table F–520. Minimum and maximum of of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.00E+04	1.93E+04	-2.00E+04	1.93E+04
A2	-2.00E+04	1.93E+04	-2.00E+04	1.93E+04
FD	-1.22E+04	1.22E+04	-1.22E+04	1.22E+04
L1	-1.90E+04	9.88E+03	-1.90E+04	9.87E+03
L3	-1.90E+04	9.88E+03	-1.90E+04	9.87E+03
L4	-1.54E+04	6.06E+03	-1.51E+04	5.75E+03
NF	—	—	—	—
NS	-1.13E+04	1.57E+04	-1.11E+04	1.56E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-261. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

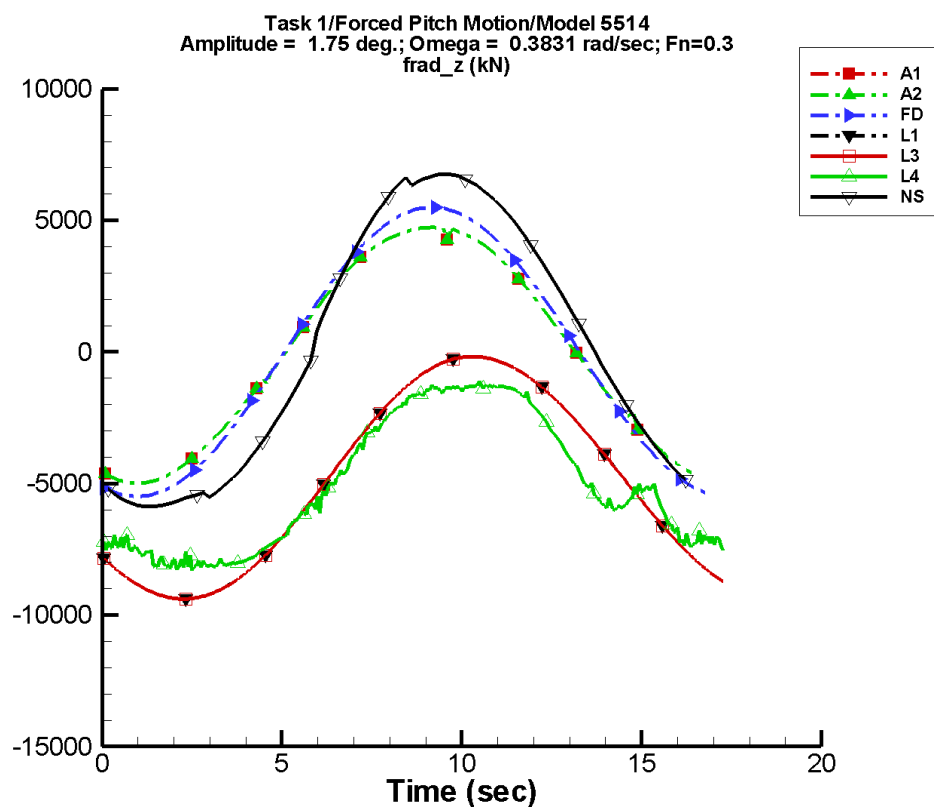
Table F-521. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-28.5	2.76E+03	-110	8.56	-19
A2	-28.5	2.76E+03	-110	8.56	-19
FD	8.95E-04	3.14E+03	-111	2.96E-03	83
L1	-4.76E+03	2.63E+03	-138	23.8	78
L3	-4.76E+03	2.63E+03	-138	23.8	78
L4	-4.79E+03	1.88E+03	-135	364.	64
NF	—	—	—	—	—
NS	-92.0	3.70E+03	-124	131.	67

Table F-522. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.86E+03	2.72E+03	-2.85E+03	2.70E+03
A2	-2.86E+03	2.72E+03	-2.85E+03	2.70E+03
FD	-3.14E+03	3.14E+03	-3.13E+03	3.13E+03
L1	-7.39E+03	-2.13E+03	-7.39E+03	-2.13E+03
L3	-7.39E+03	-2.13E+03	-7.39E+03	-2.13E+03
L4	-7.28E+03	-2.38E+03	-7.12E+03	-2.57E+03
NF	—	—	—	—
NS	-3.77E+03	3.69E+03	-3.74E+03	3.66E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-262. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

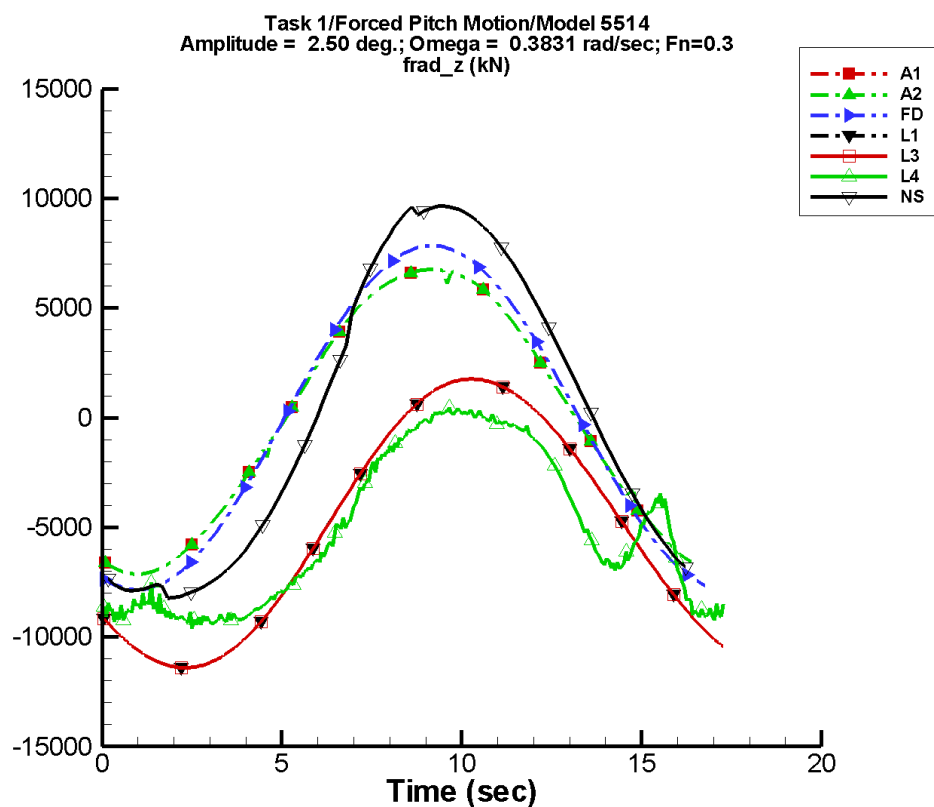
Table F-523. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-47.6	4.81E+03	-110	13.0	-33
A2	-47.6	4.81E+03	-110	13.0	-33
FD	5.80E-03	5.49E+03	-111	1.56E-02	77
L1	-4.79E+03	4.60E+03	-138	72.9	78
L3	-4.79E+03	4.60E+03	-138	72.9	78
L4	-4.97E+03	3.44E+03	-135	572.	42
NF	—	—	—	—	—
NS	59.9	6.51E+03	-123	552.	65

Table F-524. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.99E+03	4.73E+03	-4.97E+03	4.70E+03
A2	-4.99E+03	4.73E+03	-4.97E+03	4.70E+03
FD	-5.49E+03	5.49E+03	-5.47E+03	5.47E+03
L1	-9.39E+03	-176.	-9.38E+03	-182.
L3	-9.39E+03	-176.	-9.38E+03	-182.
L4	-8.31E+03	-1.11E+03	-8.10E+03	-1.28E+03
NF	—	—	—	—
NS	-5.98E+03	6.74E+03	-5.92E+03	6.67E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-263. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $Fn = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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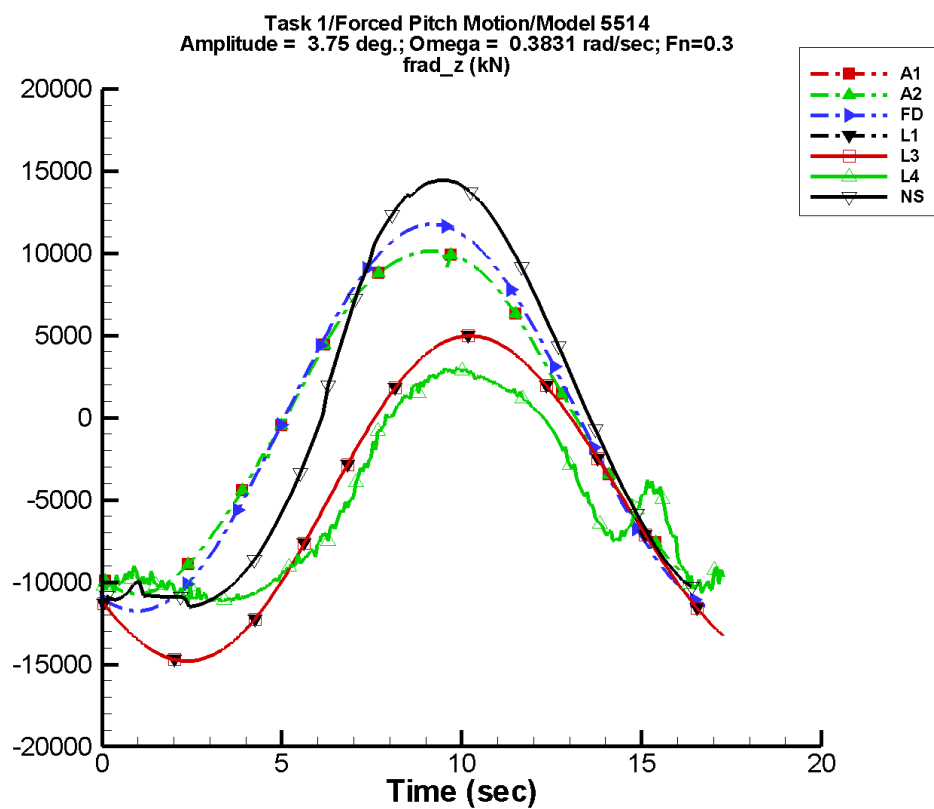
Table F–525. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-65.0	6.87E+03	-110	17.4	-50
A2	-65.0	6.87E+03	-110	17.4	-50
FD	1.56E-02	7.84E+03	-111	4.55E-02	78
L1	-4.83E+03	6.58E+03	-138	149.	78
L3	-4.83E+03	6.58E+03	-138	149.	78
L4	-5.02E+03	4.72E+03	-137	891.	39
NF	—	—	—	—	—
NS	3.36	9.11E+03	-124	960.	51

Table F–526. Minimum and maximum of of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.14E+03	6.76E+03	-7.11E+03	6.71E+03
A2	-7.14E+03	6.76E+03	-7.11E+03	6.71E+03
FD	-7.84E+03	7.84E+03	-7.82E+03	7.81E+03
L1	-1.14E+04	1.76E+03	-1.14E+04	1.75E+03
L3	-1.14E+04	1.76E+03	-1.14E+04	1.75E+03
L4	-9.60E+03	469.	-9.26E+03	277.
NF	—	—	—	—
NS	-8.37E+03	9.65E+03	-8.10E+03	9.55E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-264. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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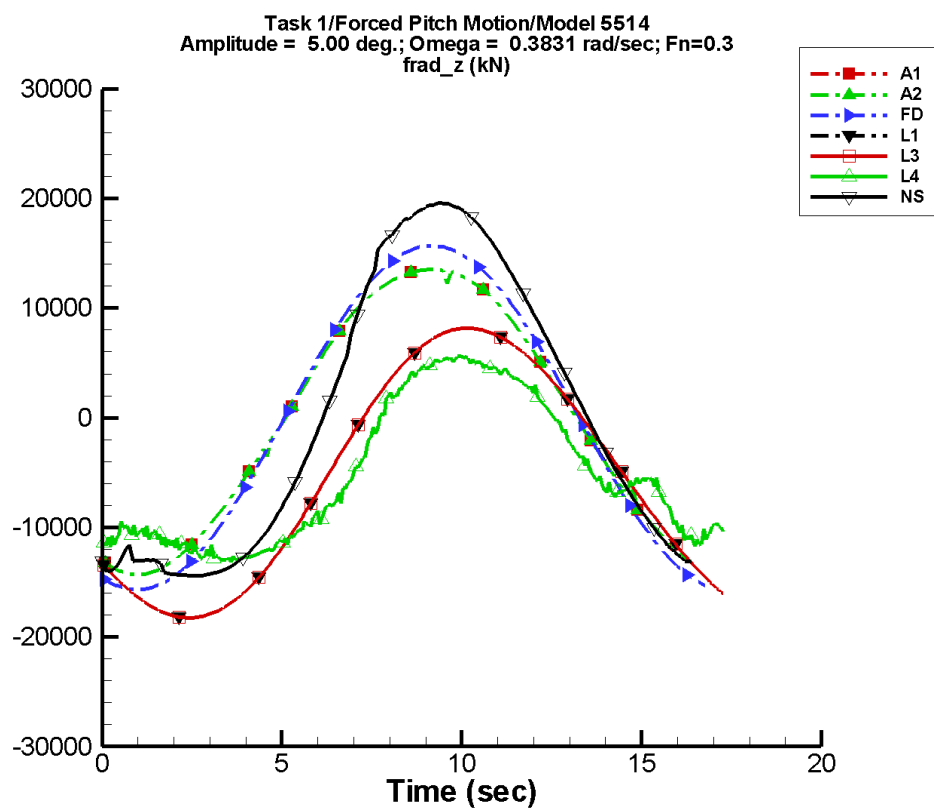
Table F-527. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-89.9	1.03E+04	-110	28.7	-79
A2	-89.9	1.03E+04	-110	28.7	-79
FD	5.14E-02	1.18E+04	-111	0.154	78
L1	-4.94E+03	9.86E+03	-138	335.	78
L3	-4.94E+03	9.86E+03	-138	335.	78
L4	-5.07E+03	6.78E+03	-139	1.53E+03	31
NF	—	—	—	—	—
NS	-49.6	1.32E+04	-125	1.92E+03	47

Table F-528. Minimum and maximum of of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+04	1.01E+04	-1.07E+04	1.01E+04
A2	-1.07E+04	1.01E+04	-1.07E+04	1.01E+04
FD	-1.18E+04	1.18E+04	-1.17E+04	1.17E+04
L1	-1.48E+04	4.97E+03	-1.48E+04	4.96E+03
L3	-1.48E+04	4.97E+03	-1.48E+04	4.96E+03
L4	-1.13E+04	3.01E+03	-1.11E+04	2.90E+03
NF	—	—	—	—
NS	-1.16E+04	1.45E+04	-1.13E+04	1.44E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-265. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

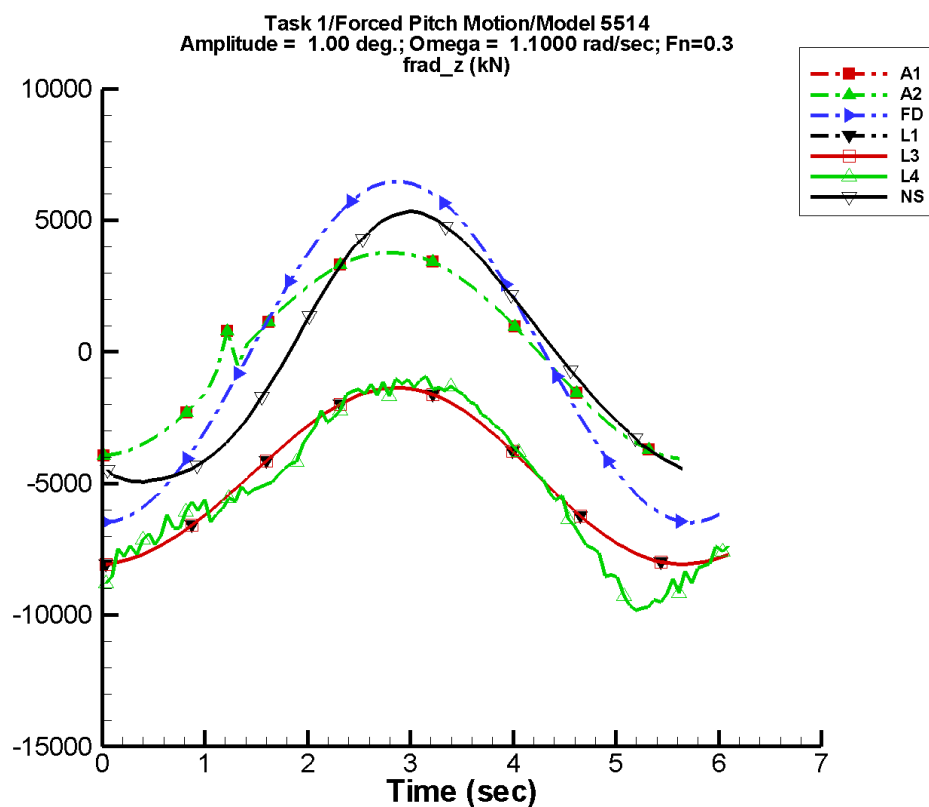
Table F–529. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-110.	1.38E+04	-110	49.7	-99
A2	-110.	1.38E+04	-110	49.7	-99
FD	0.121	1.57E+04	-111	0.366	78
L1	-5.10E+03	1.32E+04	-138	595.	78
L3	-5.10E+03	1.32E+04	-138	595.	78
L4	-5.06E+03	8.74E+03	-141	2.35E+03	25
NF	—	—	—	—	—
NS	-51.9	1.72E+04	-125	3.19E+03	45

Table F–530. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.43E+04	1.35E+04	-1.42E+04	1.34E+04
A2	-1.43E+04	1.35E+04	-1.42E+04	1.34E+04
FD	-1.57E+04	1.57E+04	-1.56E+04	1.56E+04
L1	-1.83E+04	8.16E+03	-1.82E+04	8.14E+03
L3	-1.83E+04	8.16E+03	-1.82E+04	8.14E+03
L4	-1.32E+04	5.63E+03	-1.29E+04	5.46E+03
NF	—	—	—	—
NS	-1.45E+04	1.97E+04	-1.45E+04	1.96E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-266. Time history of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

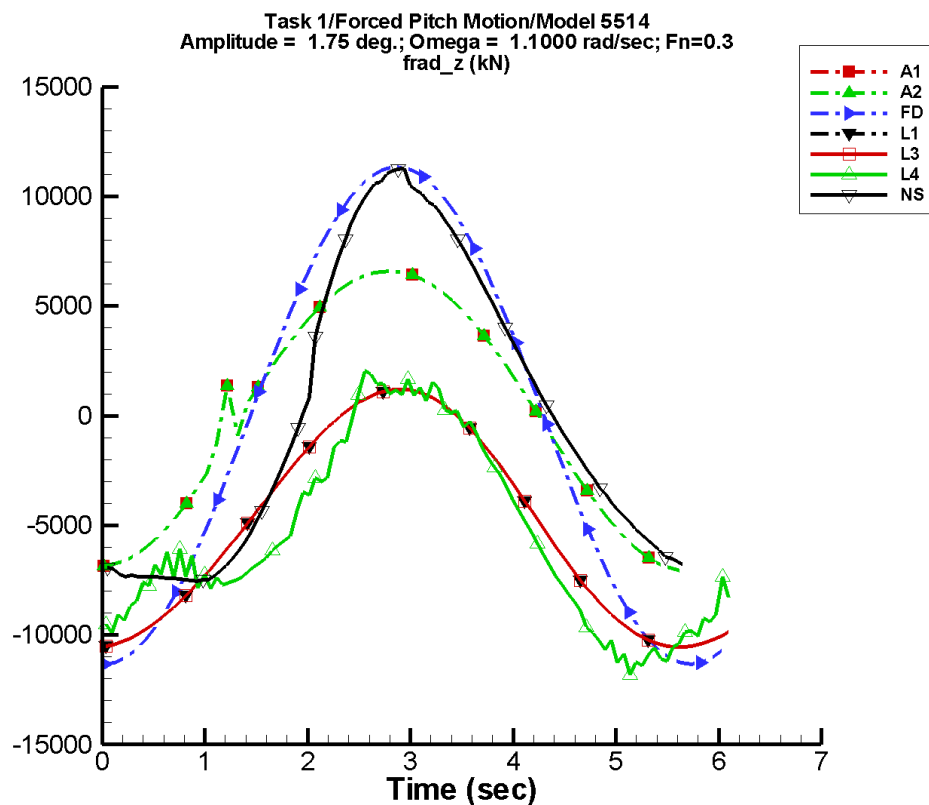
Table F-531. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.75	3.89E+03	-86	133.	-75
A2	2.75	3.89E+03	-86	133.	-75
FD	4.82E-03	6.48E+03	-91	5.14E-02	7
L1	-4.76E+03	3.35E+03	-89	81.1	35
L3	-4.76E+03	3.35E+03	-89	81.0	35
L4	-4.96E+03	3.75E+03	-88	842.	15
NF	—	—	—	—	—
NS	-353.	5.05E+03	-107	621.	97

Table F-532. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.05E+03	3.78E+03	-3.91E+03	3.68E+03
A2	-4.05E+03	3.78E+03	-3.91E+03	3.68E+03
FD	-6.48E+03	6.48E+03	-6.52E+03	6.56E+03
L1	-8.07E+03	-1.36E+03	-8.08E+03	-1.33E+03
L3	-8.07E+03	-1.36E+03	-8.08E+03	-1.33E+03
L4	-9.84E+03	-930.	-9.48E+03	-1.19E+03
NF	—	—	—	—
NS	-5.16E+03	5.34E+03	-5.08E+03	5.23E+03

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Data identically zero, insufficient, or not available from NFA.

Figure F-267. Time history of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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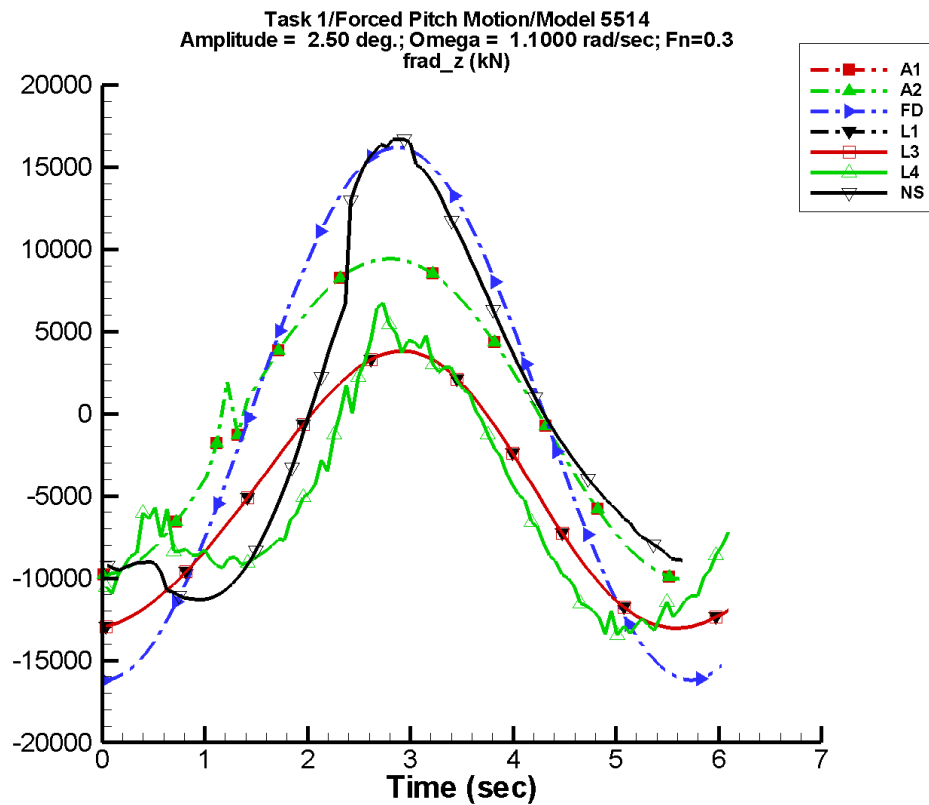
Table F-533. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	10.3	6.78E+03	-86	235.	-76
A2	10.3	6.78E+03	-86	235.	-76
FD	2.37E-02	1.13E+04	-91	0.274	7
L1	-4.81E+03	5.87E+03	-89	251.	34
L3	-4.81E+03	5.87E+03	-89	251.	34
L4	-5.31E+03	5.54E+03	-89	2.03E+03	45
NF	—	—	—	—	—
NS	-192.	9.00E+03	-108	2.32E+03	93

Table F-534. Minimum and maximum of F_z^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.07E+03	6.60E+03	-6.82E+03	6.42E+03
A2	-7.07E+03	6.60E+03	-6.82E+03	6.42E+03
FD	-1.13E+04	1.13E+04	-1.14E+04	1.15E+04
L1	-1.06E+04	1.21E+03	-1.05E+04	1.26E+03
L3	-1.06E+04	1.21E+03	-1.05E+04	1.26E+03
L4	-1.18E+04	2.32E+03	-1.11E+04	1.75E+03
NF	—	—	—	—
NS	-7.81E+03	1.13E+04	-7.68E+03	1.08E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-268. Time history of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

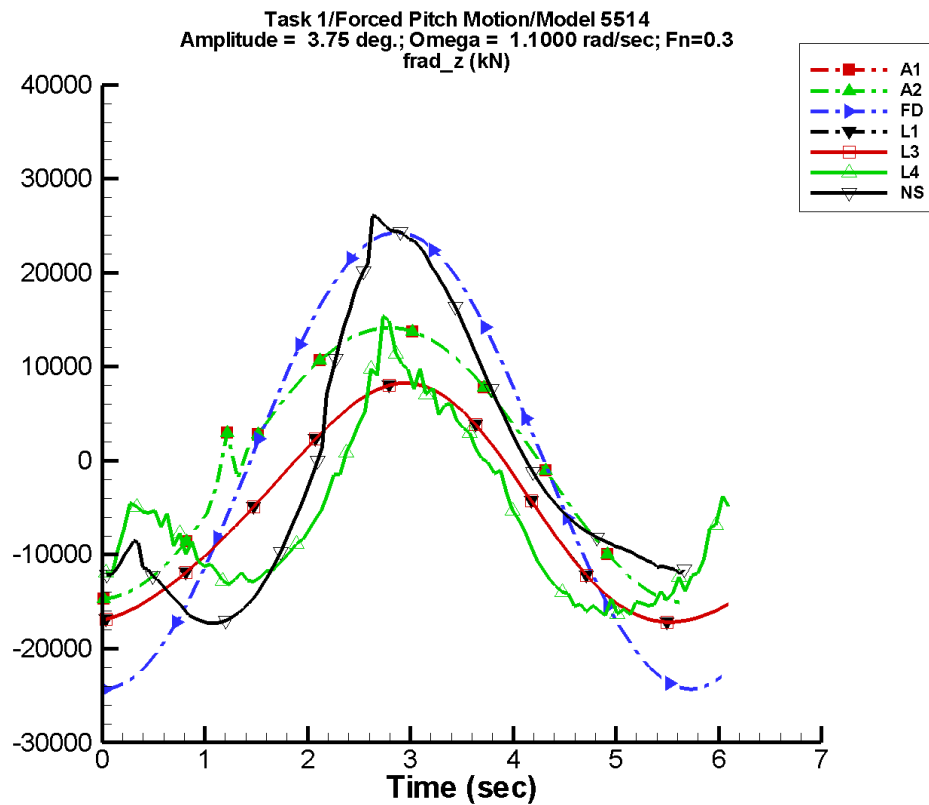
Table F–535. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	22.5	9.69E+03	-86	342.	-78
A2	22.5	9.69E+03	-86	342.	-78
FD	6.66E-02	1.62E+04	-91	0.800	7
L1	-4.88E+03	8.38E+03	-89	514.	34
L3	-4.88E+03	8.38E+03	-89	514.	34
L4	-5.53E+03	7.20E+03	-90	3.87E+03	51
NF	—	—	—	—	—
NS	-726.	1.24E+04	-111	4.30E+03	85

Table F–536. Minimum and maximum of F_z^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.01E+04	9.43E+03	-9.74E+03	9.17E+03
A2	-1.01E+04	9.43E+03	-9.74E+03	9.17E+03
FD	-1.62E+04	1.62E+04	-1.63E+04	1.64E+04
L1	-1.30E+04	3.81E+03	-1.29E+04	3.86E+03
L3	-1.30E+04	3.81E+03	-1.29E+04	3.86E+03
L4	-1.35E+04	6.75E+03	-1.29E+04	4.98E+03
NF	—	—	—	—
NS	-1.18E+04	1.67E+04	-1.17E+04	1.65E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-269. Time history of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

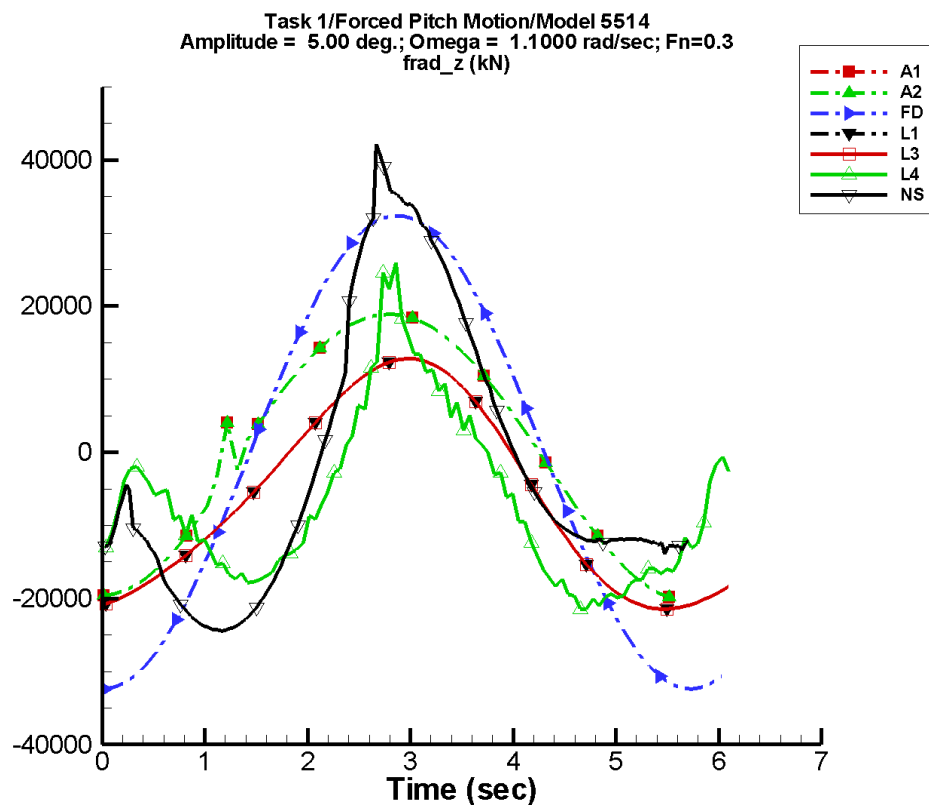
Table F-537. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	53.4	1.45E+04	-86	530.	-80
A2	53.4	1.45E+04	-86	530.	-80
FD	0.216	2.43E+04	-91	2.70	7
L1	-5.06E+03	1.26E+04	-89	1.16E+03	34
L3	-5.06E+03	1.26E+04	-89	1.16E+03	34
L4	-6.03E+03	9.50E+03	-91	7.56E+03	55
NF	—	—	—	—	—
NS	-1.44E+03	1.72E+04	-110	8.29E+03	84

Table F-538. Minimum and maximum of F_z^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.52E+04	1.41E+04	-1.46E+04	1.38E+04
A2	-1.52E+04	1.41E+04	-1.46E+04	1.38E+04
FD	-2.43E+04	2.43E+04	-2.44E+04	2.46E+04
L1	-1.72E+04	8.24E+03	-1.71E+04	8.26E+03
L3	-1.72E+04	8.24E+03	-1.71E+04	8.26E+03
L4	-1.64E+04	1.68E+04	-1.58E+04	1.19E+04
NF	—	—	—	—
NS	-1.78E+04	2.61E+04	-1.76E+04	2.47E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-270. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

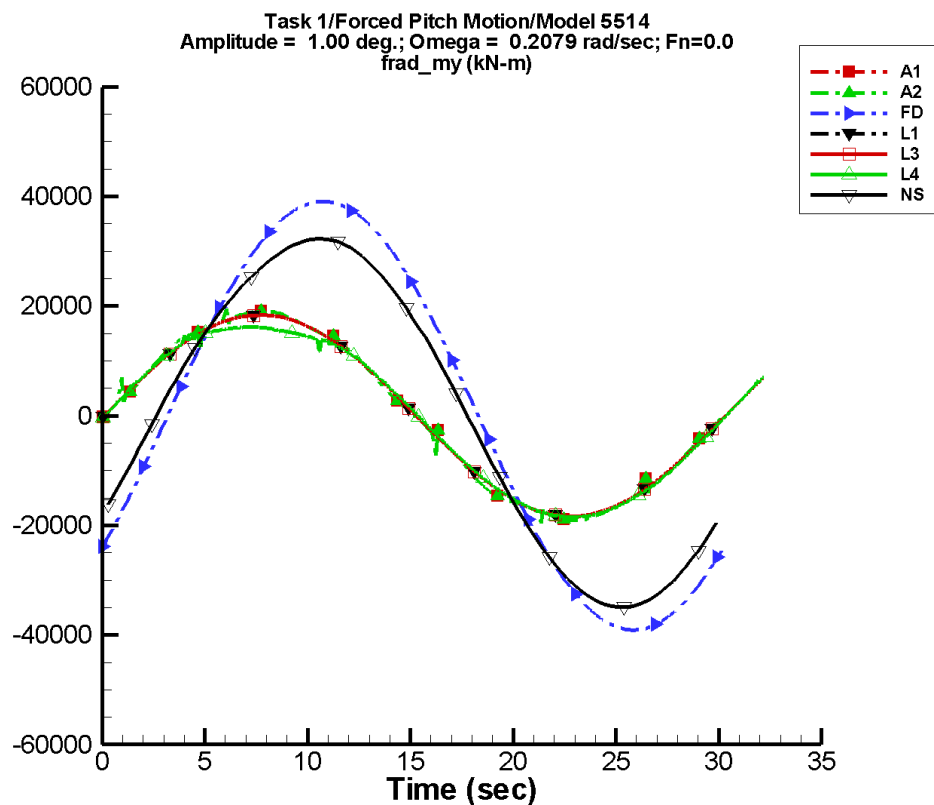
Table F–539. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	97.5	1.94E+04	-86	730.	-83
A2	97.5	1.94E+04	-86	730.	-83
FD	0.511	3.24E+04	-91	6.39	7
L1	-5.32E+03	1.68E+04	-89	2.07E+03	34
L3	-5.32E+03	1.68E+04	-89	2.07E+03	34
L4	-6.76E+03	1.14E+04	-91	1.21E+04	58
NF	—	—	—	—	—
NS	-2.28E+03	2.17E+04	-111	1.41E+04	82

Table F–540. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.02E+04	1.89E+04	-1.95E+04	1.84E+04
A2	-2.02E+04	1.89E+04	-1.95E+04	1.84E+04
FD	-3.24E+04	3.24E+04	-3.26E+04	3.28E+04
L1	-2.14E+04	1.28E+04	-2.13E+04	1.27E+04
L3	-2.14E+04	1.28E+04	-2.13E+04	1.27E+04
L4	-2.15E+04	2.63E+04	-2.04E+04	1.98E+04
NF	—	—	—	—
NS	-2.49E+04	4.21E+04	-2.47E+04	3.70E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-271. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

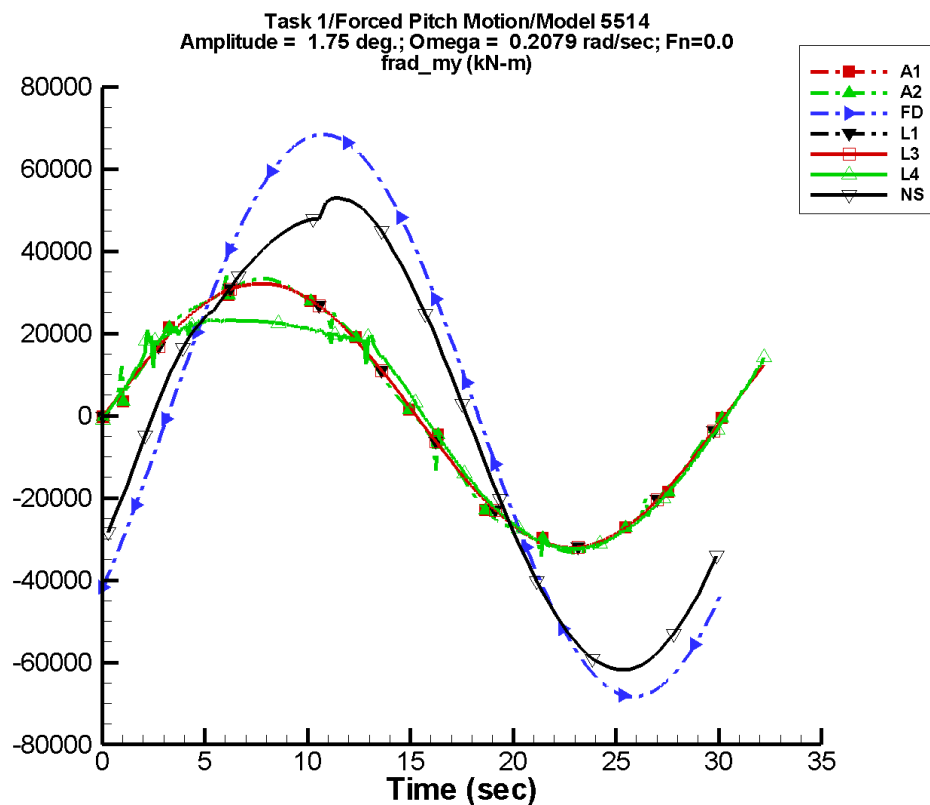
Table F-541. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-10.8	1.88E+04	-1	8.91	10
A2	-10.8	1.88E+04	-1	8.91	10
FD	1.77E-04	3.91E+04	-38	3.42E-03	-107
L1	52.0	1.84E+04	-2	47.8	90
L3	52.0	1.84E+04	-2	47.8	90
L4	-304.	1.77E+04	-2	929.	66
NF	—	—	—	—	—
NS	-440.	3.35E+04	-32	909.	63

Table F-542. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.96E+04	1.97E+04	-1.91E+04	1.91E+04
A2	-1.96E+04	1.97E+04	-1.91E+04	1.91E+04
FD	-3.91E+04	3.91E+04	-3.90E+04	3.90E+04
L1	-1.84E+04	1.84E+04	-1.84E+04	1.84E+04
L3	-1.84E+04	1.84E+04	-1.84E+04	1.84E+04
L4	-1.85E+04	1.62E+04	-1.85E+04	1.62E+04
NF	—	—	—	—
NS	-3.49E+04	3.28E+04	-3.46E+04	3.24E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-272. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

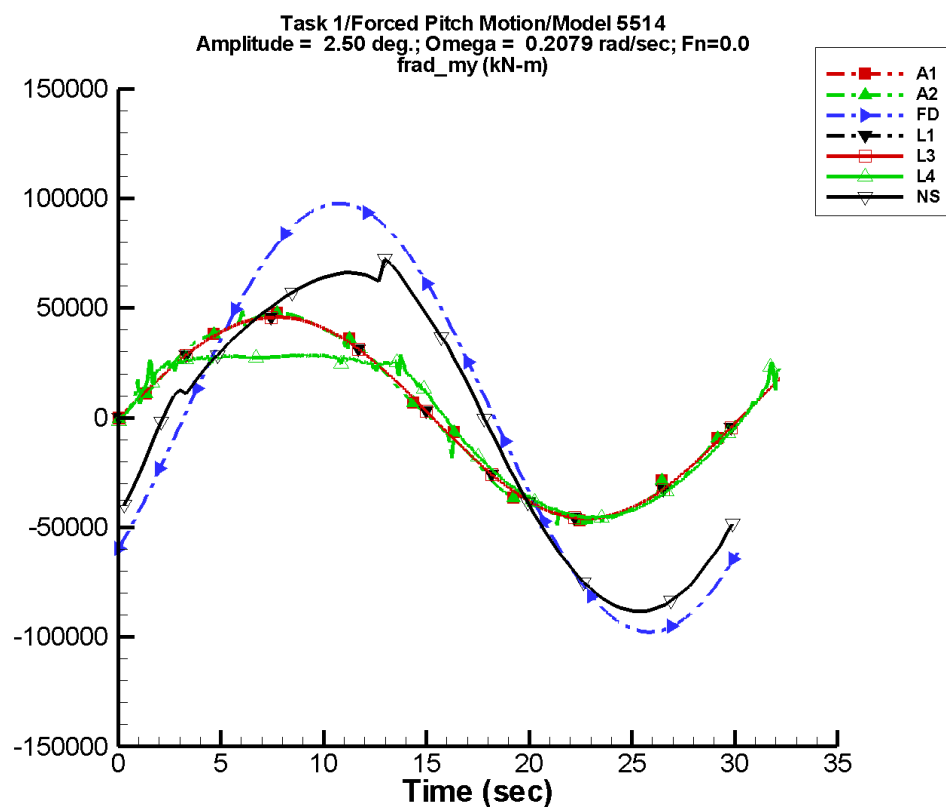
Table F-543. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-18.8	3.28E+04	-1	15.5	10
A2	-18.8	3.28E+04	-1	15.5	10
FD	-3.13E-03	6.84E+04	-38	4.63E-03	-66
L1	160.	3.21E+04	-2	153.	88
L3	160.	3.21E+04	-2	153.	88
L4	-1.15E+03	2.92E+04	-3	3.93E+03	73
NF	—	—	—	—	—
NS	-2.38E+03	5.64E+04	-33	4.25E+03	64

Table F-544. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.42E+04	3.44E+04	-3.32E+04	3.33E+04
A2	-3.42E+04	3.44E+04	-3.32E+04	3.33E+04
FD	-6.84E+04	6.84E+04	-6.83E+04	6.83E+04
L1	-3.21E+04	3.22E+04	-3.21E+04	3.22E+04
L3	-3.21E+04	3.22E+04	-3.21E+04	3.22E+04
L4	-3.23E+04	2.33E+04	-3.23E+04	2.32E+04
NF	—	—	—	—
NS	-6.17E+04	5.39E+04	-6.12E+04	5.25E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-273. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

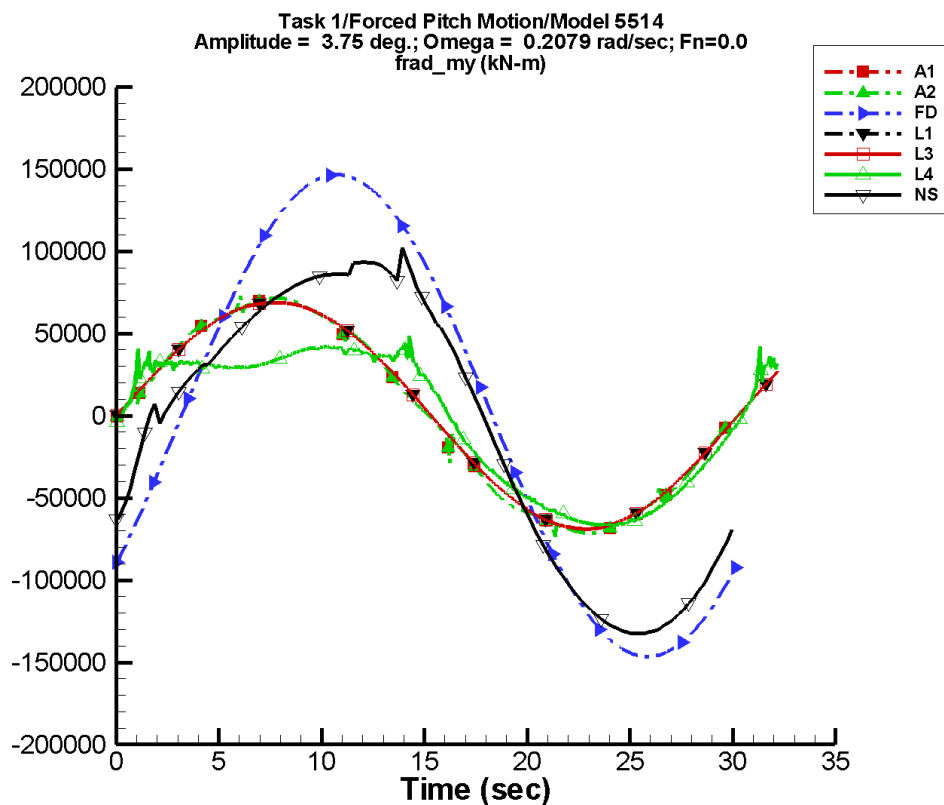
Table F-545. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-26.9	4.69E+04	-1	22.2	10
A2	-26.9	4.69E+04	-1	22.2	10
FD	-2.70E-02	9.77E+04	-38	2.24E-02	41
L1	327.	4.59E+04	-2	317.	87
L3	327.	4.59E+04	-2	317.	87
L4	-2.16E+03	3.95E+04	-5	7.65E+03	76
NF	—	—	—	—	—
NS	-4.41E+03	7.81E+04	-33	8.39E+03	59

Table F-546. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.89E+04	4.91E+04	-4.75E+04	4.76E+04
A2	-4.89E+04	4.91E+04	-4.75E+04	4.76E+04
FD	-9.77E+04	9.77E+04	-9.76E+04	9.76E+04
L1	-4.59E+04	4.60E+04	-4.59E+04	4.59E+04
L3	-4.59E+04	4.60E+04	-4.59E+04	4.59E+04
L4	-4.56E+04	2.88E+04	-4.55E+04	2.85E+04
NF	—	—	—	—
NS	-8.83E+04	7.42E+04	-8.74E+04	6.78E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-274. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

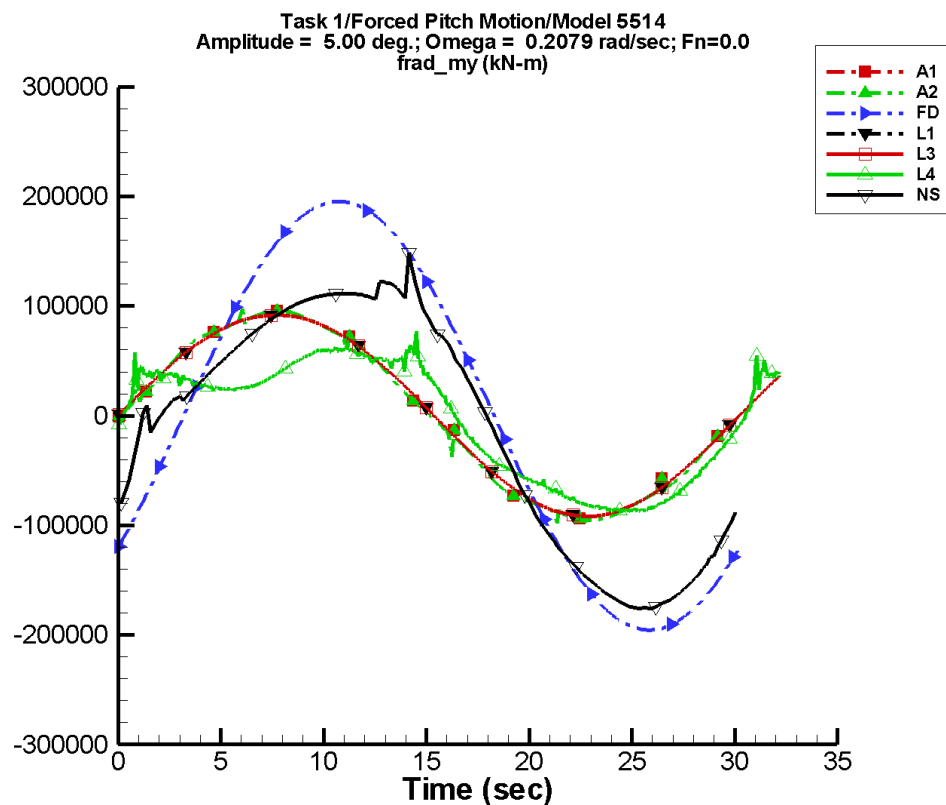
Table F-547. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-40.3	7.04E+04	-1	33.3	10
A2	-40.3	7.04E+04	-1	33.3	10
FD	-5.27E-03	1.47E+05	-38	1.49E-02	-168
L1	738.	6.88E+04	-2	722.	86
L3	738.	6.88E+04	-2	722.	86
L4	-3.81E+03	5.52E+04	-9	1.45E+04	82
NF	—	—	—	—	—
NS	-8.97E+03	1.12E+05	-33	1.63E+04	57

Table F-548. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.34E+04	7.37E+04	-7.12E+04	7.13E+04
A2	-7.34E+04	7.37E+04	-7.12E+04	7.13E+04
FD	-1.47E+05	1.47E+05	-1.46E+05	1.46E+05
L1	-6.89E+04	6.89E+04	-6.88E+04	6.89E+04
L3	-6.89E+04	6.89E+04	-6.88E+04	6.89E+04
L4	-6.68E+04	4.83E+04	-6.63E+04	4.17E+04
NF	—	—	—	—
NS	-1.33E+05	1.04E+05	-1.32E+05	9.35E+04

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-275. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

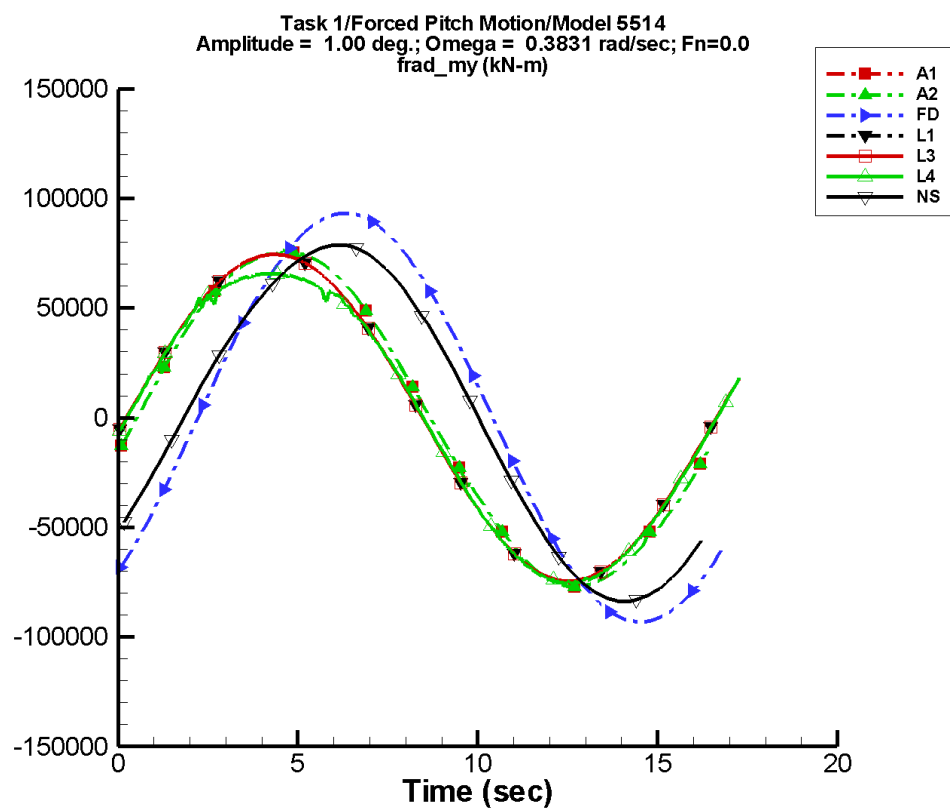
Table F-549. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-53.8	9.39E+04	-1	44.5	10
A2	-53.8	9.39E+04	-1	44.5	10
FD	-4.73E-02	1.95E+05	-38	4.79E-02	52
L1	1.31E+03	9.18E+04	-2	1.29E+03	86
L3	1.31E+03	9.18E+04	-2	1.29E+03	86
L4	-5.14E+03	7.01E+04	-14	2.14E+04	88
NF	—	—	—	—	—
NS	-1.21E+04	1.46E+05	-34	2.36E+04	56

Table F-550. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.80E+04	9.83E+04	-9.51E+04	9.52E+04
A2	-9.80E+04	9.83E+04	-9.51E+04	9.52E+04
FD	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L1	-9.18E+04	9.19E+04	-9.18E+04	9.19E+04
L3	-9.18E+04	9.19E+04	-9.18E+04	9.19E+04
L4	-8.74E+04	7.66E+04	-8.65E+04	6.17E+04
NF	—	—	—	—
NS	-1.76E+05	1.51E+05	-1.75E+05	1.25E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-276. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

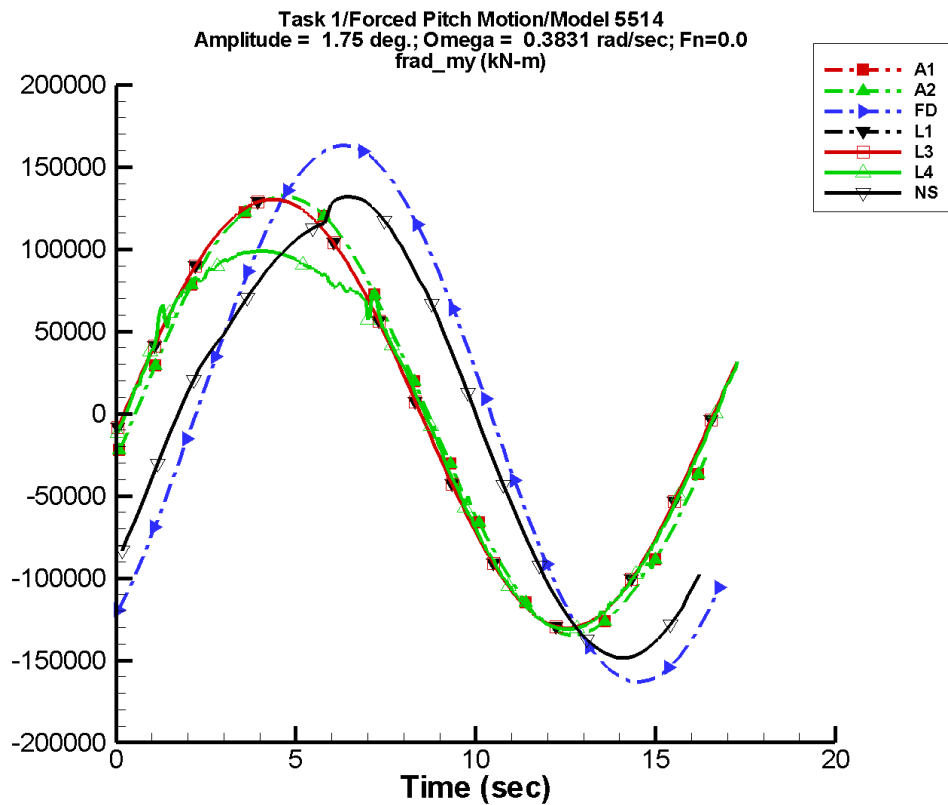
Table F-551. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-46.9	7.64E+04	-11	140.	22
A2	-46.9	7.64E+04	-11	140.	22
FD	-5.53E-03	9.32E+04	-49	1.22E-02	-111
L1	202.	7.45E+04	-5	218.	78
L3	202.	7.45E+04	-5	218.	78
L4	-1.61E+03	7.18E+04	-6	2.83E+03	68
NF	—	—	—	—	—
NS	-1.23E+03	8.07E+04	-40	2.14E+03	63

Table F-552. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.72E+04	7.64E+04	-7.69E+04	7.53E+04
A2	-7.72E+04	7.64E+04	-7.69E+04	7.53E+04
FD	-9.32E+04	9.32E+04	-9.32E+04	9.29E+04
L1	-7.45E+04	7.45E+04	-7.44E+04	7.44E+04
L3	-7.45E+04	7.45E+04	-7.44E+04	7.44E+04
L4	-7.55E+04	6.57E+04	-7.52E+04	6.56E+04
NF	—	—	—	—
NS	-8.39E+04	7.91E+04	-8.30E+04	7.82E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-277. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

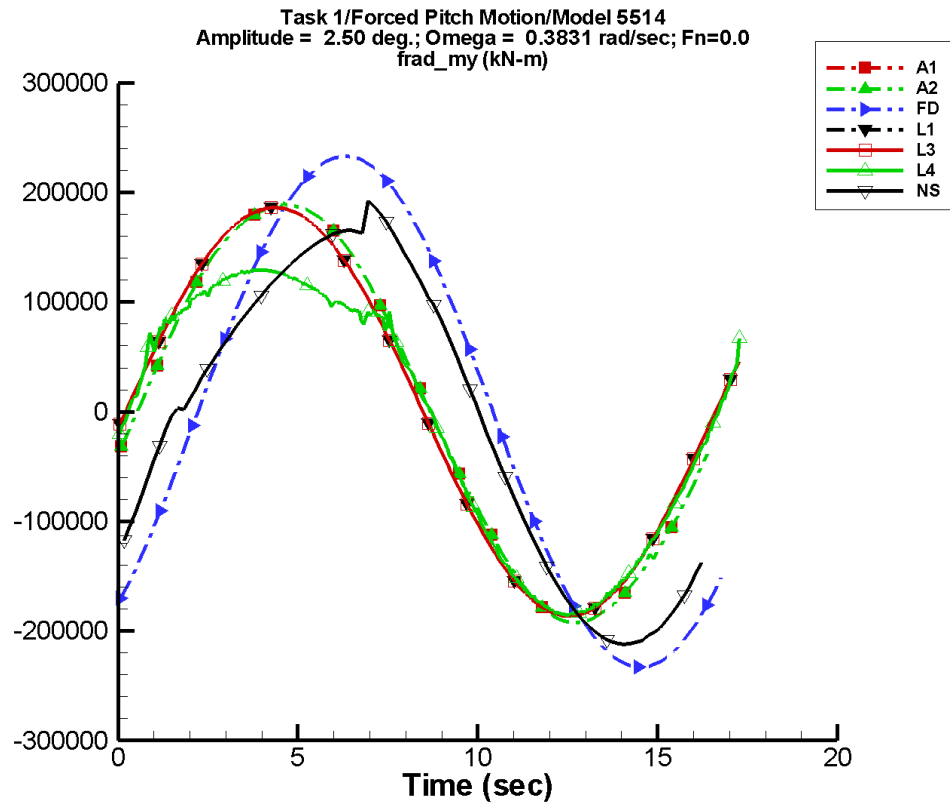
Table F–553. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-81.7	1.33E+05	-11	243.	22
A2	-81.7	1.33E+05	-11	243.	22
FD	-1.80E-02	1.63E+05	-49	1.72E-02	-108
L1	623.	1.30E+05	-5	657.	79
L3	623.	1.30E+05	-5	657.	79
L4	-5.75E+03	1.18E+05	-6	1.11E+04	65
NF	—	—	—	—	—
NS	-5.91E+03	1.36E+05	-41	9.93E+03	60

Table F–554. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.35E+05	1.33E+05	-1.34E+05	1.31E+05
A2	-1.35E+05	1.33E+05	-1.34E+05	1.31E+05
FD	-1.63E+05	1.63E+05	-1.63E+05	1.62E+05
L1	-1.30E+05	1.30E+05	-1.30E+05	1.30E+05
L3	-1.30E+05	1.30E+05	-1.30E+05	1.30E+05
L4	-1.31E+05	9.89E+04	-1.31E+05	9.88E+04
NF	—	—	—	—
NS	-1.48E+05	1.33E+05	-1.47E+05	1.29E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-278. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

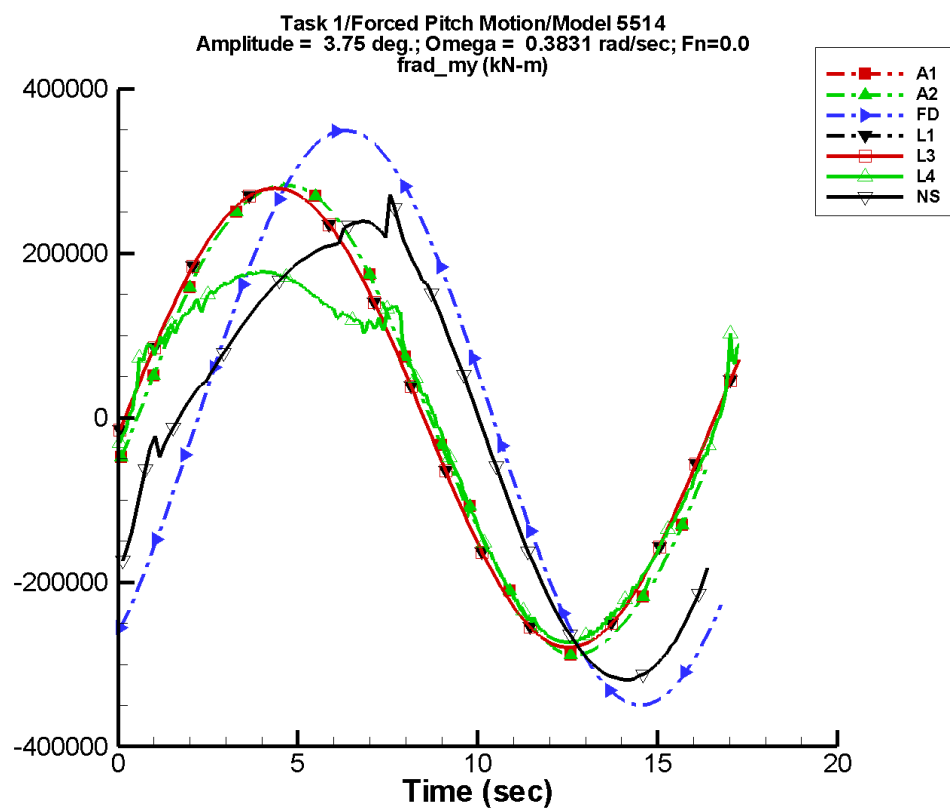
Table F-555. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-117.	1.90E+05	-11	348.	22
A2	-117.	1.90E+05	-11	348.	22
FD	-2.71E-02	2.33E+05	-49	3.43E-02	-91
L1	1.27E+03	1.86E+05	-5	1.33E+03	79
L3	1.27E+03	1.86E+05	-5	1.33E+03	79
L4	-1.06E+04	1.60E+05	-6	2.08E+04	64
NF	—	—	—	—	—
NS	-1.02E+04	1.89E+05	-42	1.95E+04	56

Table F-556. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.92E+05	1.90E+05	-1.92E+05	1.88E+05
A2	-1.92E+05	1.90E+05	-1.92E+05	1.88E+05
FD	-2.33E+05	2.33E+05	-2.33E+05	2.32E+05
L1	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05
L3	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05
L4	-1.85E+05	1.29E+05	-1.85E+05	1.29E+05
NF	—	—	—	—
NS	-2.12E+05	1.93E+05	-2.10E+05	1.75E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-279. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

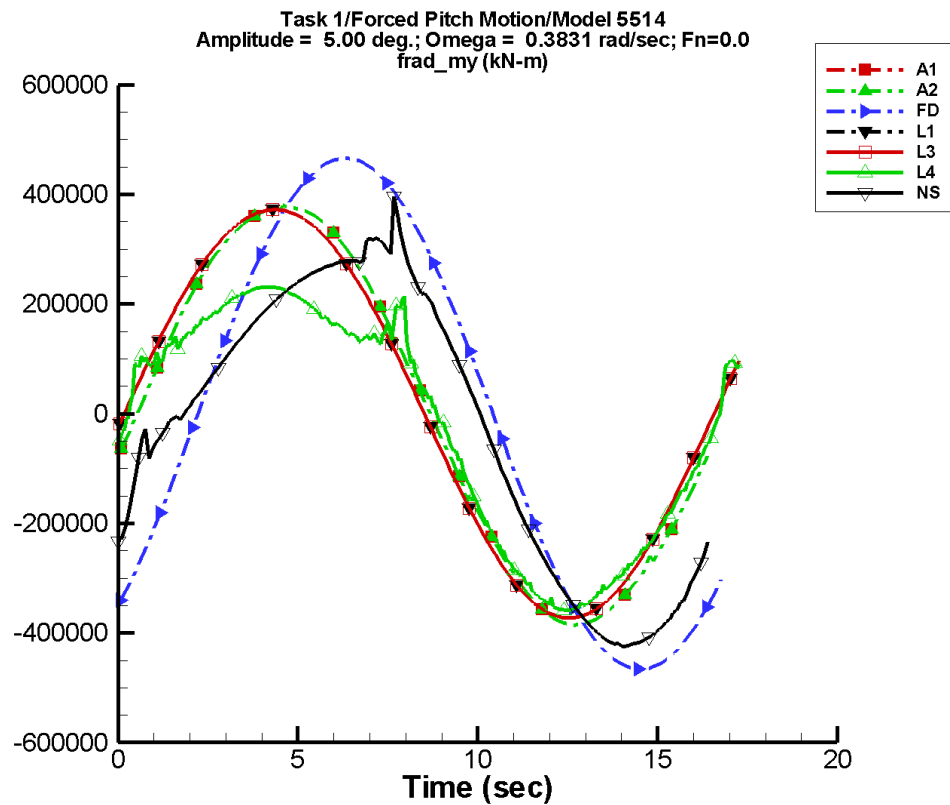
Table F-557. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-175.	2.85E+05	-11	522.	22
A2	-175.	2.85E+05	-11	522.	22
FD	-3.35E-02	3.50E+05	-49	4.86E-02	-46
L1	2.87E+03	2.79E+05	-5	2.98E+03	79
L3	2.87E+03	2.79E+05	-5	2.98E+03	79
L4	-1.87E+04	2.26E+05	-8	3.75E+04	66
NF	—	—	—	—	—
NS	-2.11E+04	2.71E+05	-41	3.86E+04	52

Table F-558. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.89E+05	2.85E+05	-2.87E+05	2.82E+05
A2	-2.89E+05	2.85E+05	-2.87E+05	2.82E+05
FD	-3.50E+05	3.50E+05	-3.49E+05	3.48E+05
L1	-2.79E+05	2.79E+05	-2.79E+05	2.79E+05
L3	-2.79E+05	2.79E+05	-2.79E+05	2.79E+05
L4	-2.73E+05	1.77E+05	-2.73E+05	1.77E+05
NF	—	—	—	—
NS	-3.18E+05	2.72E+05	-3.16E+05	2.39E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-280. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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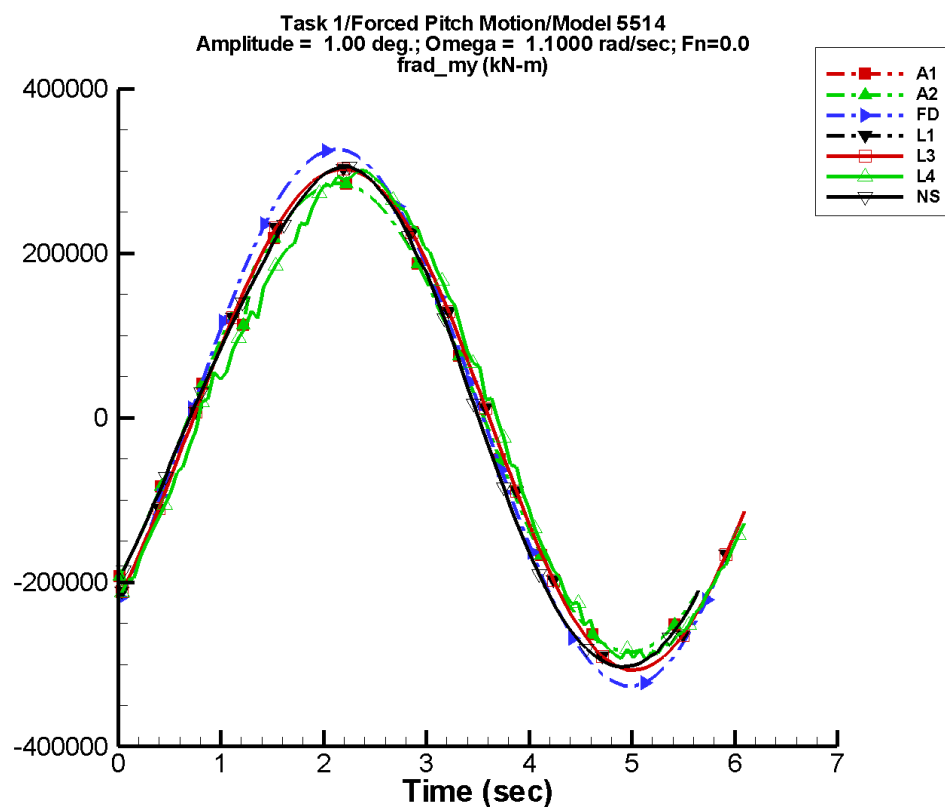
Table F-559. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-234.	3.81E+05	-11	696.	22
A2	-234.	3.81E+05	-11	696.	22
FD	-5.17E-02	4.66E+05	-49	6.65E-02	-85
L1	5.11E+03	3.73E+05	-5	5.29E+03	79
L3	5.11E+03	3.73E+05	-5	5.29E+03	79
L4	-2.55E+04	2.89E+05	-9	5.09E+04	69
NF	—	—	—	—	—
NS	-2.80E+04	3.52E+05	-42	5.65E+04	52

Table F-560. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.85E+05	3.81E+05	-3.84E+05	3.76E+05
A2	-3.85E+05	3.81E+05	-3.84E+05	3.76E+05
FD	-4.66E+05	4.66E+05	-4.66E+05	4.64E+05
L1	-3.73E+05	3.72E+05	-3.72E+05	3.72E+05
L3	-3.73E+05	3.72E+05	-3.72E+05	3.72E+05
L4	-3.58E+05	2.31E+05	-3.57E+05	2.31E+05
NF	—	—	—	—
NS	-4.25E+05	3.96E+05	-4.21E+05	3.26E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-281. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

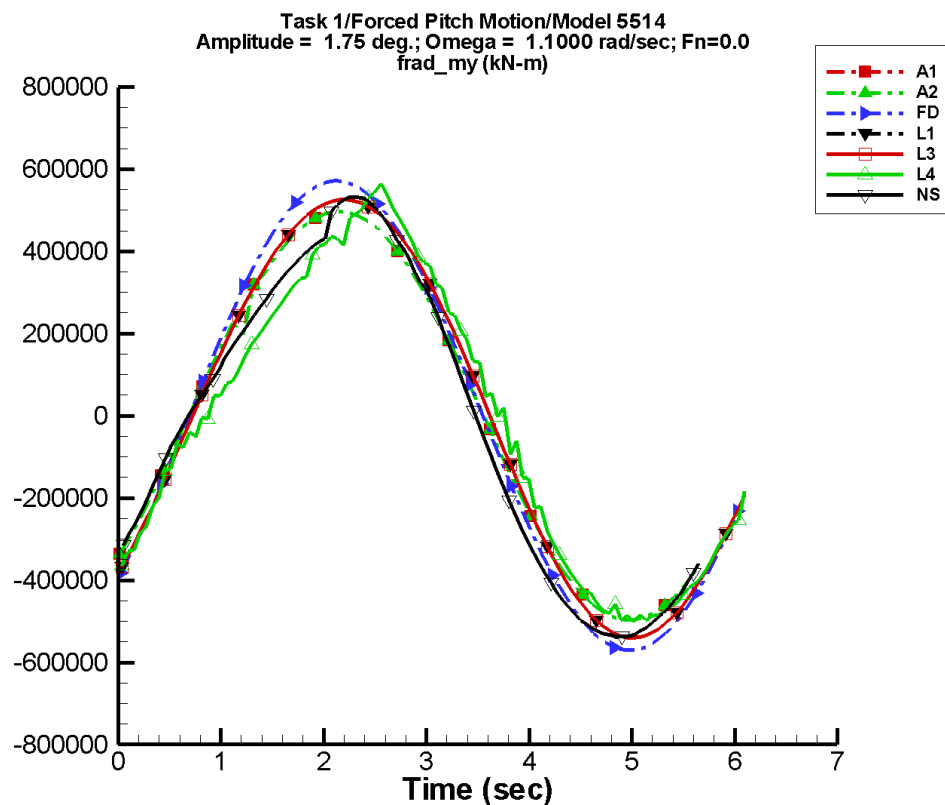
Table F-561. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-270.	2.84E+05	-44	4.37E+03	83
A2	-270.	2.84E+05	-44	4.37E+03	83
FD	1.42E-02	3.26E+05	-44	8.50E-02	-28
L1	497.	3.05E+05	-47	3.72E+03	34
L3	497.	3.05E+05	-47	3.72E+03	34
L4	-1.60E+03	2.91E+05	-52	1.44E+04	80
NF	—	—	—	—	—
NS	-4.92E+03	3.00E+05	-43	1.56E+04	109

Table F-562. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.85E+05	2.85E+05	-2.77E+05	2.77E+05
A2	-2.85E+05	2.85E+05	-2.77E+05	2.77E+05
FD	-3.26E+05	3.26E+05	-3.16E+05	3.17E+05
L1	-3.07E+05	3.02E+05	-3.04E+05	2.99E+05
L3	-3.07E+05	3.02E+05	-3.04E+05	2.99E+05
L4	-2.95E+05	3.04E+05	-2.88E+05	2.95E+05
NF	—	—	—	—
NS	-3.03E+05	3.07E+05	-3.00E+05	3.02E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-282. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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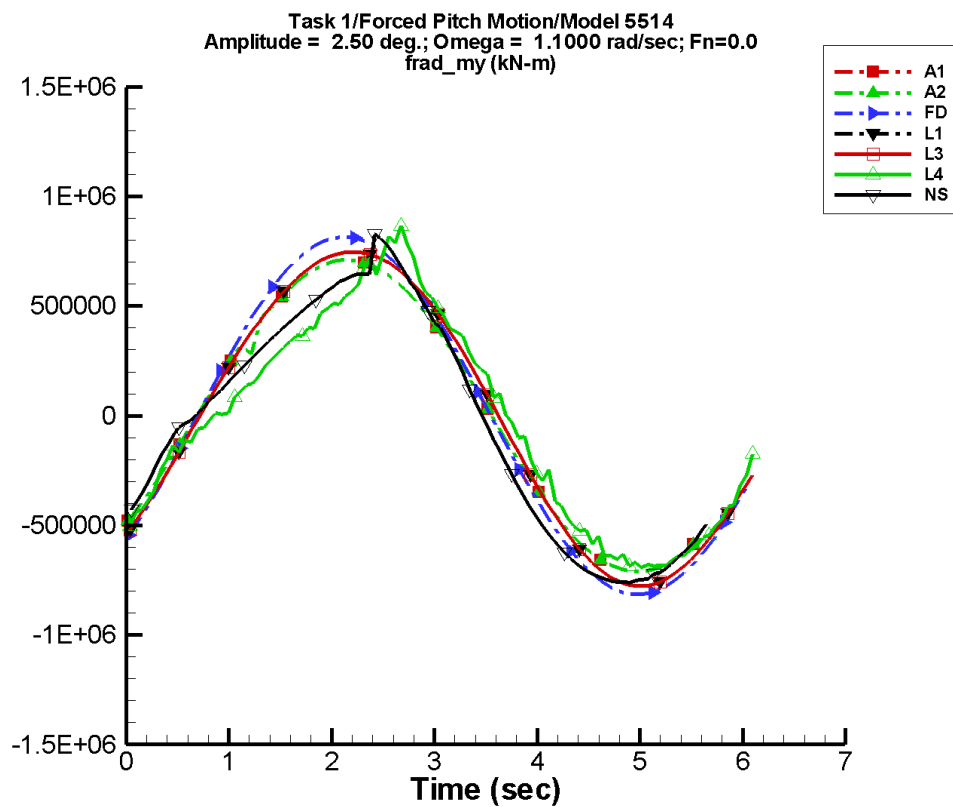
Table F-563. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-471.	4.95E+05	-44	7.62E+03	83
A2	-471.	4.95E+05	-44	7.62E+03	83
FD	3.41E-03	5.71E+05	-44	0.129	-14
L1	1.33E+03	5.33E+05	-47	1.12E+04	34
L3	1.33E+03	5.33E+05	-47	1.12E+04	34
L4	-4.93E+03	4.84E+05	-55	5.43E+04	69
NF	—	—	—	—	—
NS	-2.52E+04	5.09E+05	-43	5.21E+04	94

Table F-564. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.97E+05	4.97E+05	-4.82E+05	4.82E+05
A2	-4.97E+05	4.97E+05	-4.82E+05	4.82E+05
FD	-5.70E+05	5.71E+05	-5.53E+05	5.55E+05
L1	-5.41E+05	5.26E+05	-5.34E+05	5.21E+05
L3	-5.41E+05	5.26E+05	-5.34E+05	5.21E+05
L4	-5.01E+05	5.64E+05	-4.89E+05	5.17E+05
NF	—	—	—	—
NS	-5.39E+05	5.33E+05	-5.32E+05	5.20E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-283. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

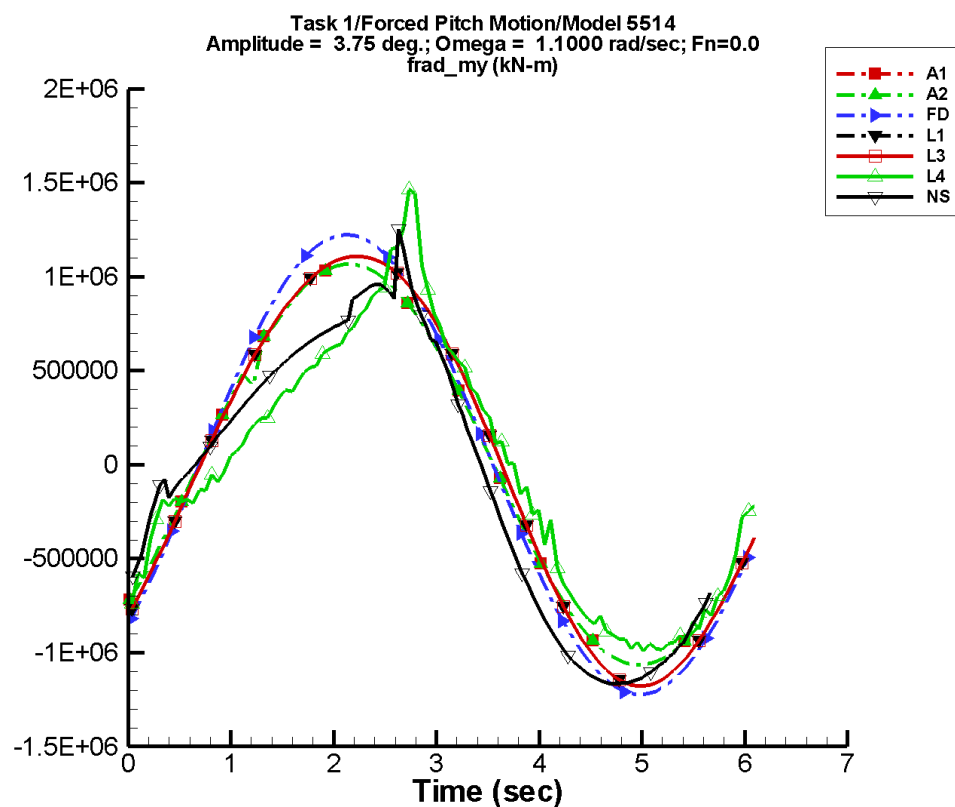
Table F-565. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-673.	7.08E+05	-44	1.09E+04	83
A2	-673.	7.08E+05	-44	1.09E+04	83
FD	4.25E-02	8.16E+05	-44	0.124	-10
L1	2.57E+03	7.62E+05	-47	2.27E+04	34
L3	2.57E+03	7.62E+05	-47	2.27E+04	34
L4	-6.84E+03	6.60E+05	-56	1.08E+05	68
NF	—	—	—	—	—
NS	-4.20E+04	7.06E+05	-43	1.03E+05	86

Table F-566. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.10E+05	7.11E+05	-6.89E+05	6.89E+05
A2	-7.10E+05	7.11E+05	-6.89E+05	6.89E+05
FD	-8.15E+05	8.16E+05	-7.90E+05	7.93E+05
L1	-7.77E+05	7.47E+05	-7.68E+05	7.39E+05
L3	-7.77E+05	7.47E+05	-7.68E+05	7.39E+05
L4	-6.93E+05	8.66E+05	-6.78E+05	7.53E+05
NF	—	—	—	—
NS	-7.64E+05	8.30E+05	-7.56E+05	7.27E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-284. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

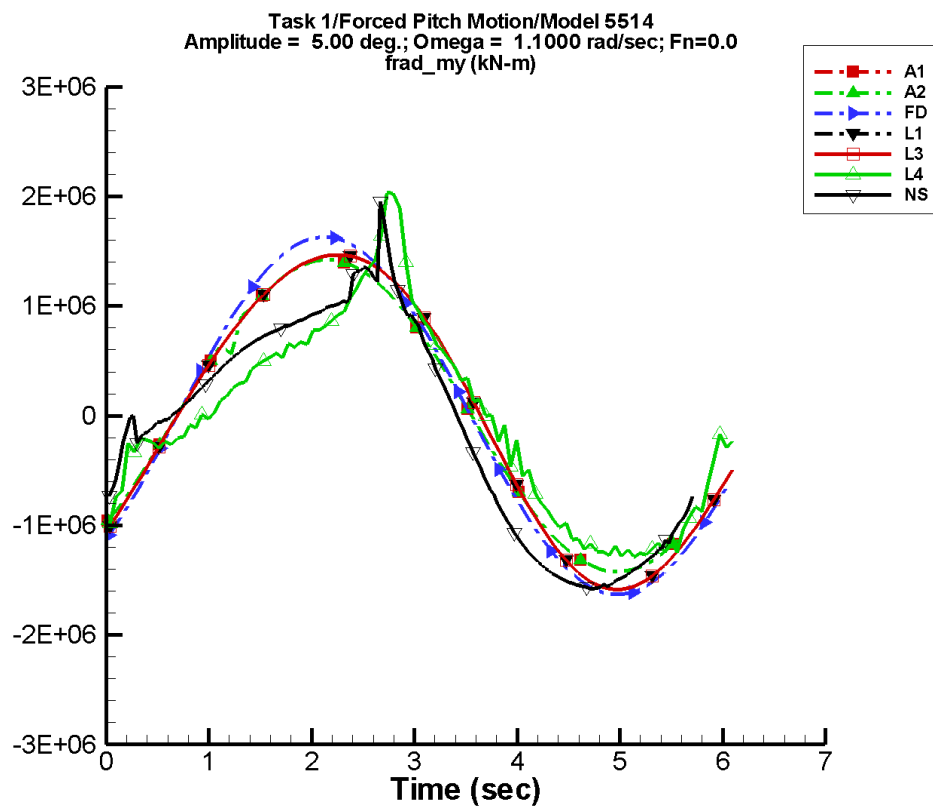
Table F-567. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.01E+03	1.06E+06	-44	1.63E+04	83
A2	-1.01E+03	1.06E+06	-44	1.63E+04	83
FD	9.94E-03	1.22E+06	-44	0.161	-1
L1	5.52E+03	1.14E+06	-47	5.08E+04	35
L3	5.52E+03	1.14E+06	-47	5.08E+04	35
L4	-5.78E+03	9.36E+05	-58	2.19E+05	66
NF	—	—	—	—	—
NS	-9.45E+04	1.02E+06	-40	1.97E+05	78

Table F-568. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.07E+06	1.07E+06	-1.03E+06	1.03E+06
A2	-1.07E+06	1.07E+06	-1.03E+06	1.03E+06
FD	-1.22E+06	1.22E+06	-1.18E+06	1.19E+06
L1	-1.18E+06	1.11E+06	-1.16E+06	1.10E+06
L3	-1.18E+06	1.11E+06	-1.16E+06	1.10E+06
L4	-9.91E+05	1.47E+06	-9.65E+05	1.20E+06
NF	—	—	—	—
NS	-1.17E+06	1.25E+06	-1.17E+06	1.01E+06

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-285. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

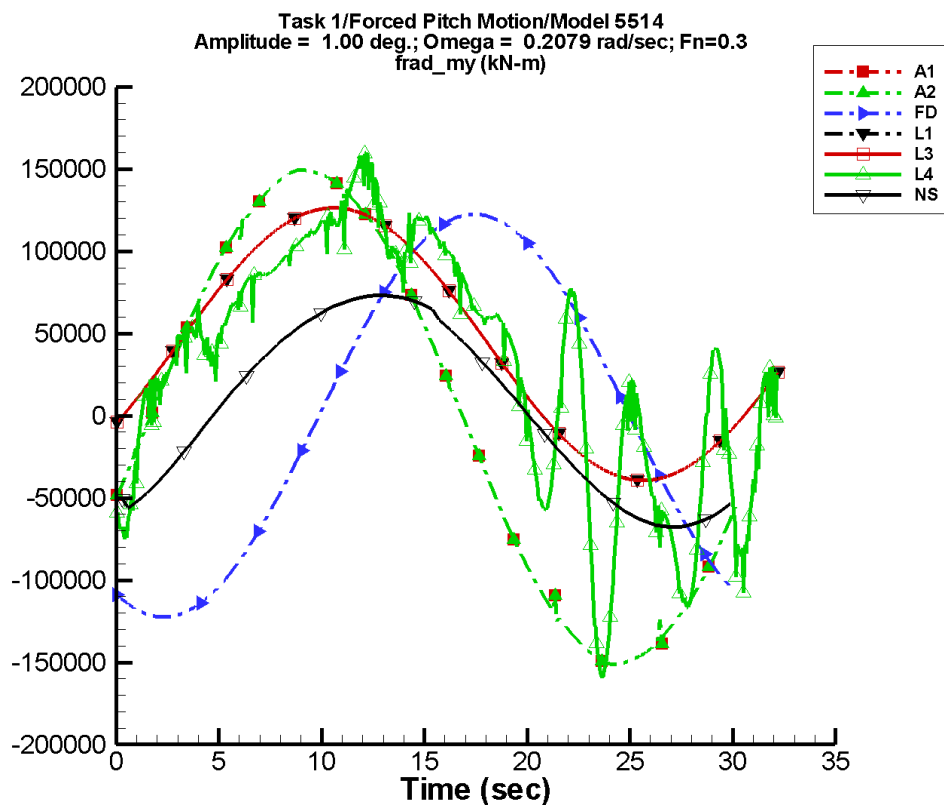
Table F-569. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.35E+03	1.42E+06	-44	2.18E+04	83
A2	-1.35E+03	1.42E+06	-44	2.18E+04	83
FD	3.81E-02	1.63E+06	-44	0.295	1
L1	9.57E+03	1.52E+06	-47	9.00E+04	35
L3	9.57E+03	1.52E+06	-47	9.00E+04	35
L4	-1.03E+04	1.20E+06	-59	3.26E+05	65
NF	—	—	—	—	—
NS	-1.30E+05	1.33E+06	-38	3.15E+05	78

Table F-570. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.42E+06	1.42E+06	-1.38E+06	1.38E+06
A2	-1.42E+06	1.42E+06	-1.38E+06	1.38E+06
FD	-1.63E+06	1.63E+06	-1.58E+06	1.59E+06
L1	-1.59E+06	1.47E+06	-1.57E+06	1.45E+06
L3	-1.59E+06	1.47E+06	-1.57E+06	1.45E+06
L4	-1.29E+06	2.10E+06	-1.25E+06	1.63E+06
NF	—	—	—	—
NS	-1.59E+06	1.95E+06	-1.58E+06	1.47E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-286. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

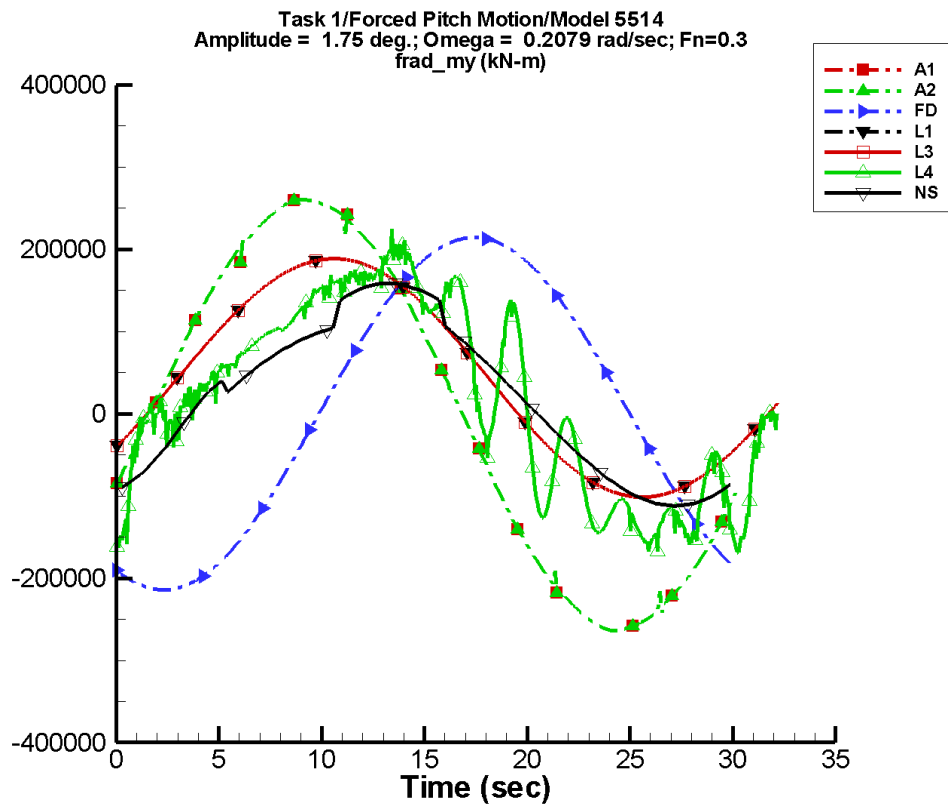
Table F-571. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-329.	1.49E+05	-21	716.	5
A2	-329.	1.49E+05	-21	716.	5
FD	-4.63E-03	1.22E+05	-118	2.37E-02	-9
L1	4.35E+04	8.28E+04	-36	263.	111
L3	4.35E+04	8.29E+04	-36	263.	110
L4	3.53E+04	9.33E+04	-47	6.73E+03	60
NF	—	—	—	—	—
NS	4.33E+03	7.18E+04	-59	1.01E+03	97

Table F-572. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.51E+05	1.49E+05	-1.51E+05	1.49E+05
A2	-1.51E+05	1.49E+05	-1.51E+05	1.49E+05
FD	-1.22E+05	1.22E+05	-1.22E+05	1.22E+05
L1	-3.93E+04	1.26E+05	-3.93E+04	1.26E+05
L3	-3.93E+04	1.26E+05	-3.93E+04	1.26E+05
L4	-1.59E+05	1.60E+05	-1.53E+05	1.55E+05
NF	—	—	—	—
NS	-6.77E+04	7.88E+04	-6.70E+04	7.83E+04

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Data identically zero, insufficient, or not available from NFA.

Figure F-287. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

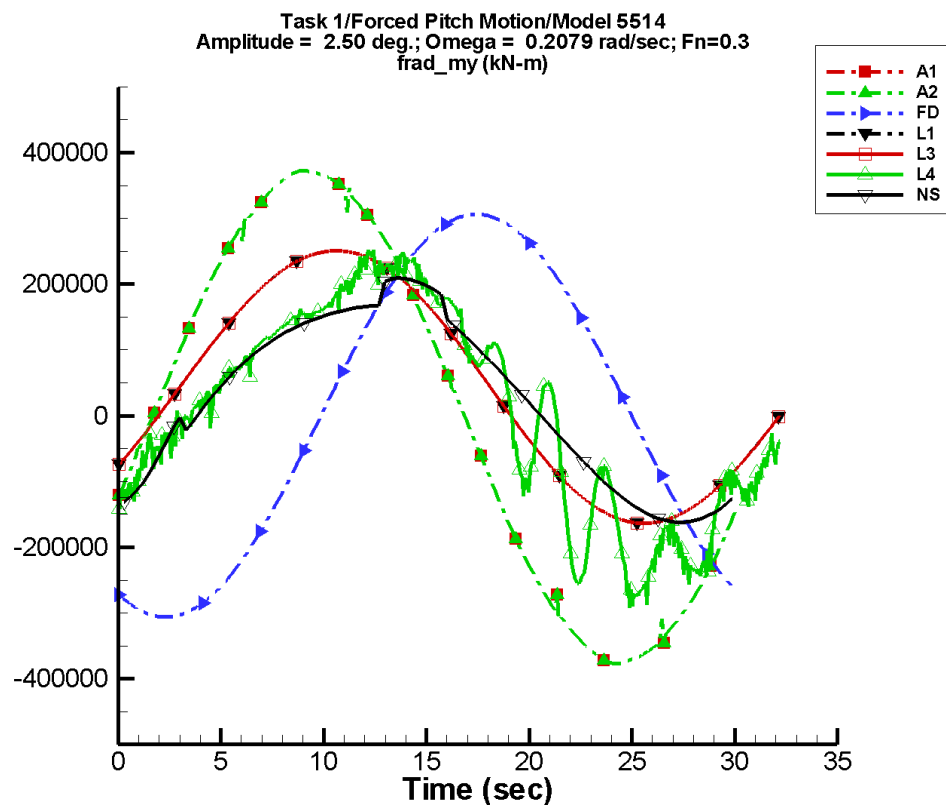
Table F-573. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-573.	2.60E+05	-21	1.25E+03	5
A2	-573.	2.60E+05	-21	1.25E+03	5
FD	2.34E-02	2.14E+05	-118	1.24E-02	72
L1	4.35E+04	1.45E+05	-36	809.	110
L3	4.35E+04	1.45E+05	-36	810.	110
L4	2.10E+04	1.52E+05	-49	1.84E+04	64
NF	—	—	—	—	—
NS	1.96E+04	1.29E+05	-58	1.02E+04	68

Table F-574. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.64E+05	2.60E+05	-2.63E+05	2.60E+05
A2	-2.64E+05	2.60E+05	-2.63E+05	2.60E+05
FD	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
L1	-1.01E+05	1.89E+05	-1.01E+05	1.88E+05
L3	-1.01E+05	1.89E+05	-1.01E+05	1.89E+05
L4	-1.69E+05	2.24E+05	-1.60E+05	2.01E+05
NF	—	—	—	—
NS	-1.15E+05	1.71E+05	-1.14E+05	1.70E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-288. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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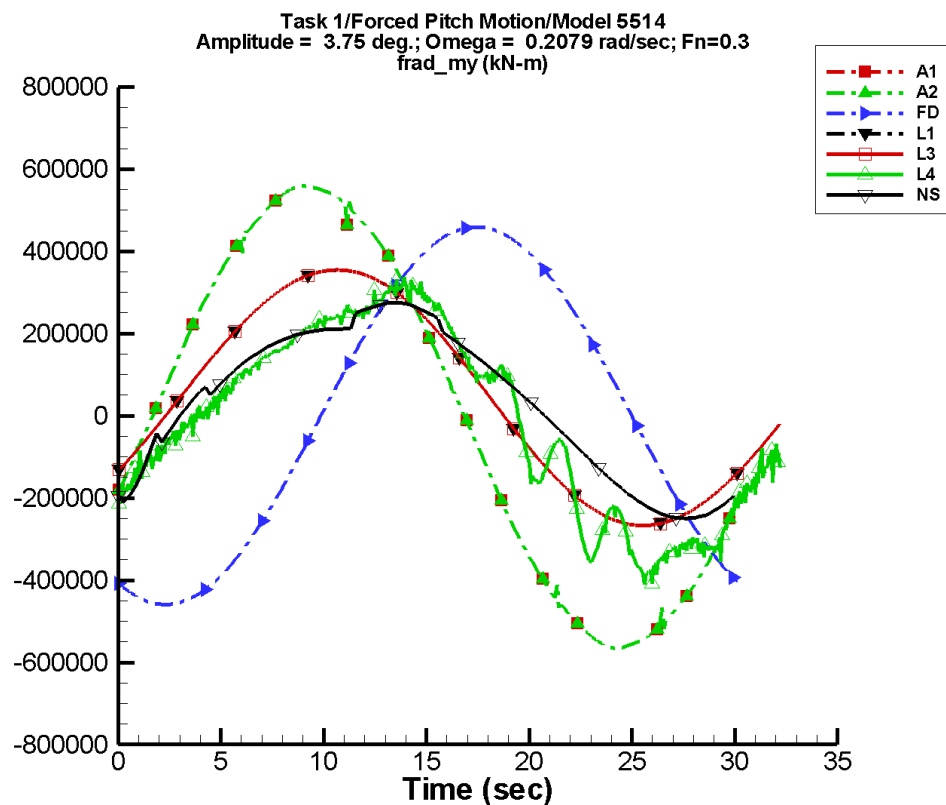
Table F-575. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-819.	3.72E+05	-21	1.78E+03	5
A2	-819.	3.72E+05	-21	1.78E+03	5
FD	-3.74E-03	3.06E+05	-118	6.22E-02	-7
L1	4.36E+04	2.07E+05	-36	1.65E+03	110
L3	4.36E+04	2.07E+05	-36	1.65E+03	110
L4	1.03E+04	2.11E+05	-49	3.15E+04	60
NF	—	—	—	—	—
NS	2.55E+04	1.78E+05	-57	1.40E+04	14

Table F-576. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.77E+05	3.72E+05	-3.76E+05	3.72E+05
A2	-3.77E+05	3.72E+05	-3.76E+05	3.72E+05
FD	-3.06E+05	3.06E+05	-3.06E+05	3.06E+05
L1	-1.64E+05	2.51E+05	-1.63E+05	2.51E+05
L3	-1.64E+05	2.51E+05	-1.63E+05	2.51E+05
L4	-2.91E+05	2.52E+05	-2.75E+05	2.41E+05
NF	—	—	—	—
NS	-1.70E+05	2.24E+05	-1.68E+05	2.17E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-289. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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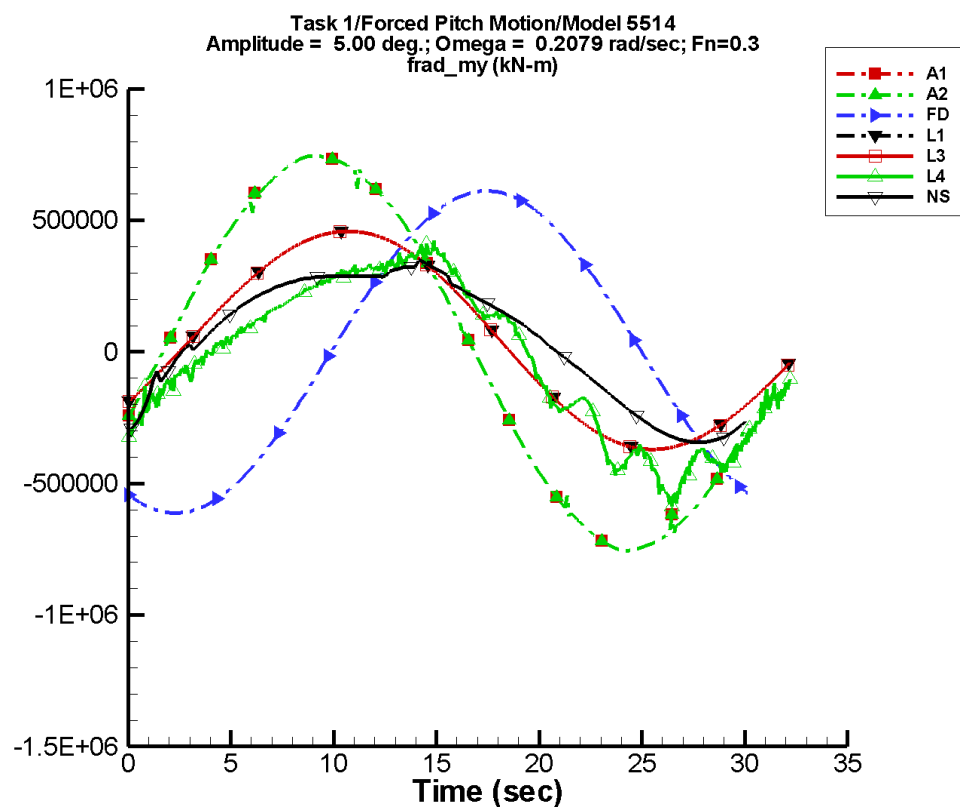
Table F-577. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.23E+03	5.58E+05	-21	2.68E+03	5
A2	-1.23E+03	5.58E+05	-21	2.68E+03	5
FD	1.82E-02	4.59E+05	-118	7.29E-03	95
L1	4.37E+04	3.11E+05	-36	3.72E+03	110
L3	4.37E+04	3.11E+05	-36	3.72E+03	110
L4	-9.72E+03	3.05E+05	-50	4.73E+04	47
NF	—	—	—	—	—
NS	3.50E+04	2.52E+05	-55	3.17E+04	-12

Table F-578. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.66E+05	5.59E+05	-5.64E+05	5.58E+05
A2	-5.66E+05	5.59E+05	-5.64E+05	5.58E+05
FD	-4.59E+05	4.59E+05	-4.59E+05	4.59E+05
L1	-2.67E+05	3.55E+05	-2.67E+05	3.54E+05
L3	-2.67E+05	3.55E+05	-2.67E+05	3.55E+05
L4	-4.10E+05	3.37E+05	-3.87E+05	3.14E+05
NF	—	—	—	—
NS	-2.63E+05	2.94E+05	-2.61E+05	2.92E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-290. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

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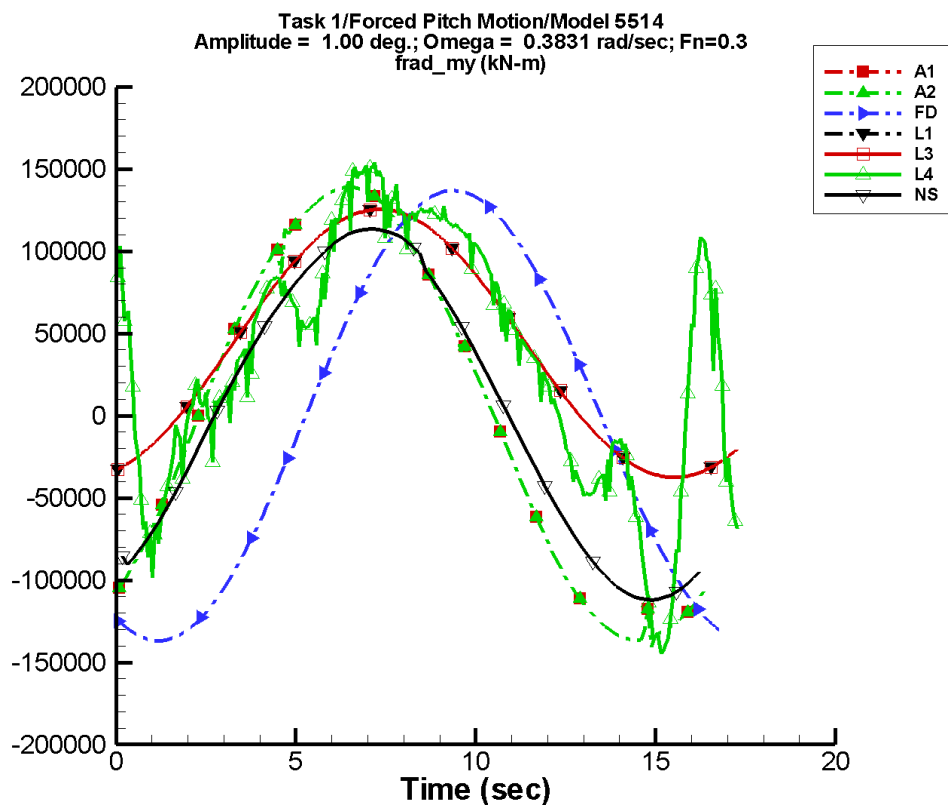
Table F–579. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.64E+03	7.44E+05	-21	3.57E+03	5
A2	-1.64E+03	7.44E+05	-21	3.57E+03	5
FD	3.28E-02	6.12E+05	-118	9.91E-02	-12
L1	4.39E+04	4.14E+05	-36	6.62E+03	110
L3	4.39E+04	4.14E+05	-36	6.62E+03	110
L4	-2.69E+04	3.95E+05	-51	6.20E+04	39
NF	—	—	—	—	—
NS	4.75E+04	3.30E+05	-52	6.19E+04	-26

Table F–580. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.55E+05	7.46E+05	-7.53E+05	7.44E+05
A2	-7.55E+05	7.46E+05	-7.53E+05	7.44E+05
FD	-6.12E+05	6.12E+05	-6.11E+05	6.11E+05
L1	-3.70E+05	4.59E+05	-3.70E+05	4.58E+05
L3	-3.70E+05	4.59E+05	-3.70E+05	4.58E+05
L4	-5.86E+05	4.23E+05	-5.55E+05	3.87E+05
NF	—	—	—	—
NS	-3.69E+05	3.69E+05	-3.67E+05	3.50E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-291. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

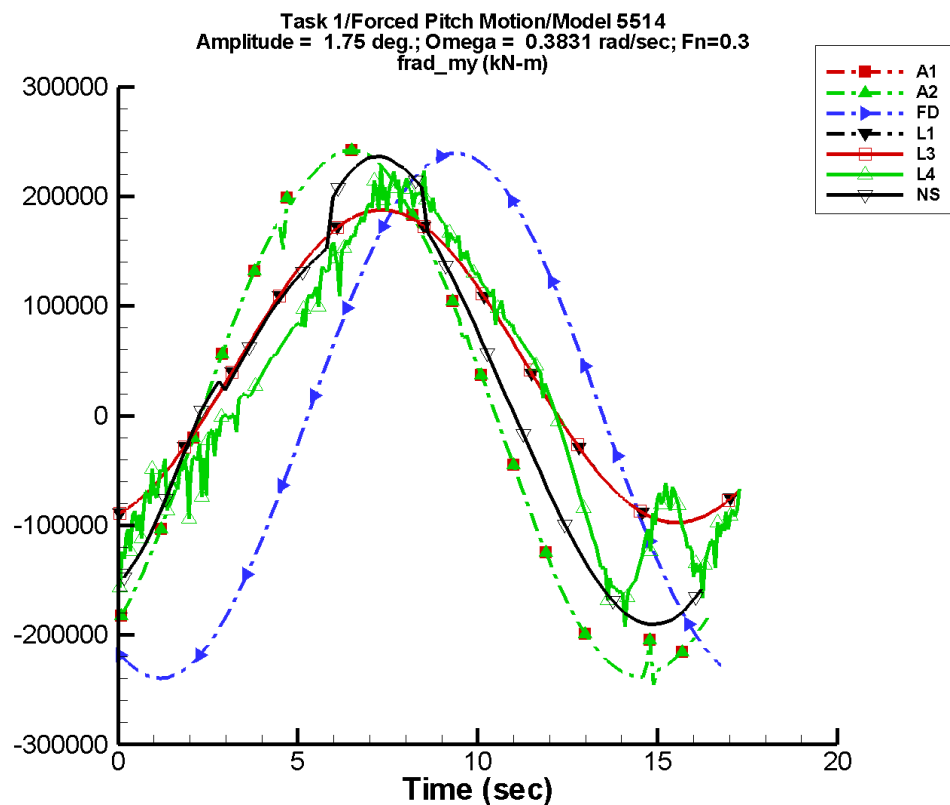
Table F–581. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	179.	1.37E+05	-50	160.	111
A2	179.	1.37E+05	-50	160.	111
FD	3.85E-03	1.37E+05	-116	9.02E-03	-108
L1	4.36E+04	8.15E+04	-71	388.	130
L3	4.36E+04	8.15E+04	-71	387.	130
L4	3.59E+04	8.93E+04	-74	1.96E+04	76
NF	—	—	—	—	—
NS	864.	1.11E+05	-61	2.61E+03	96

Table F–582. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.41E+05	1.39E+05	-1.35E+05	1.38E+05
A2	-1.41E+05	1.39E+05	-1.35E+05	1.38E+05
FD	-1.37E+05	1.37E+05	-1.36E+05	1.36E+05
L1	-3.75E+04	1.25E+05	-3.74E+04	1.25E+05
L3	-3.75E+04	1.25E+05	-3.74E+04	1.25E+05
L4	-1.45E+05	1.54E+05	-1.37E+05	1.48E+05
NF	—	—	—	—
NS	-1.12E+05	1.15E+05	-1.11E+05	1.14E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-292. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

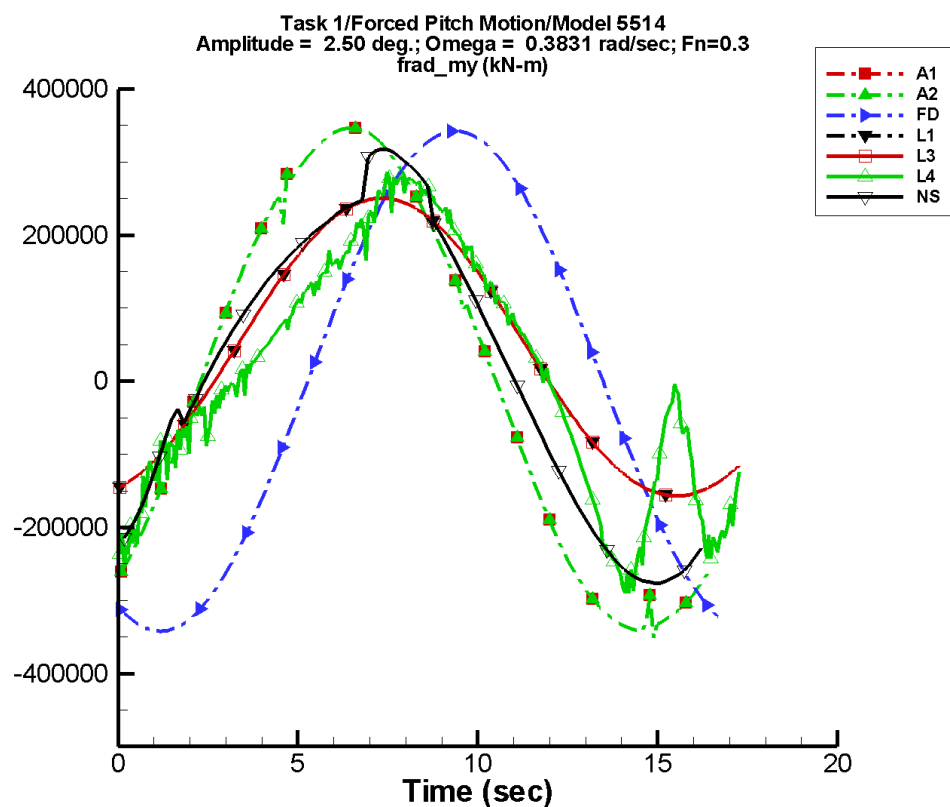
Table F–583. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	313.	2.39E+05	-50	279.	111
A2	313.	2.39E+05	-50	279.	111
FD	1.63E-02	2.39E+05	-116	1.43E-02	4
L1	4.39E+04	1.43E+05	-71	1.19E+03	130
L3	4.39E+04	1.43E+05	-71	1.18E+03	130
L4	2.56E+04	1.61E+05	-76	2.65E+04	56
NF	—	—	—	—	—
NS	1.45E+04	1.98E+05	-61	1.65E+04	74

Table F–584. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.45E+05	2.42E+05	-2.35E+05	2.41E+05
A2	-2.45E+05	2.42E+05	-2.35E+05	2.41E+05
FD	-2.39E+05	2.39E+05	-2.39E+05	2.39E+05
L1	-9.75E+04	1.88E+05	-9.74E+04	1.87E+05
L3	-9.75E+04	1.88E+05	-9.74E+04	1.87E+05
L4	-1.92E+05	2.27E+05	-1.65E+05	2.08E+05
NF	—	—	—	—
NS	-1.90E+05	2.43E+05	-1.88E+05	2.41E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-293. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

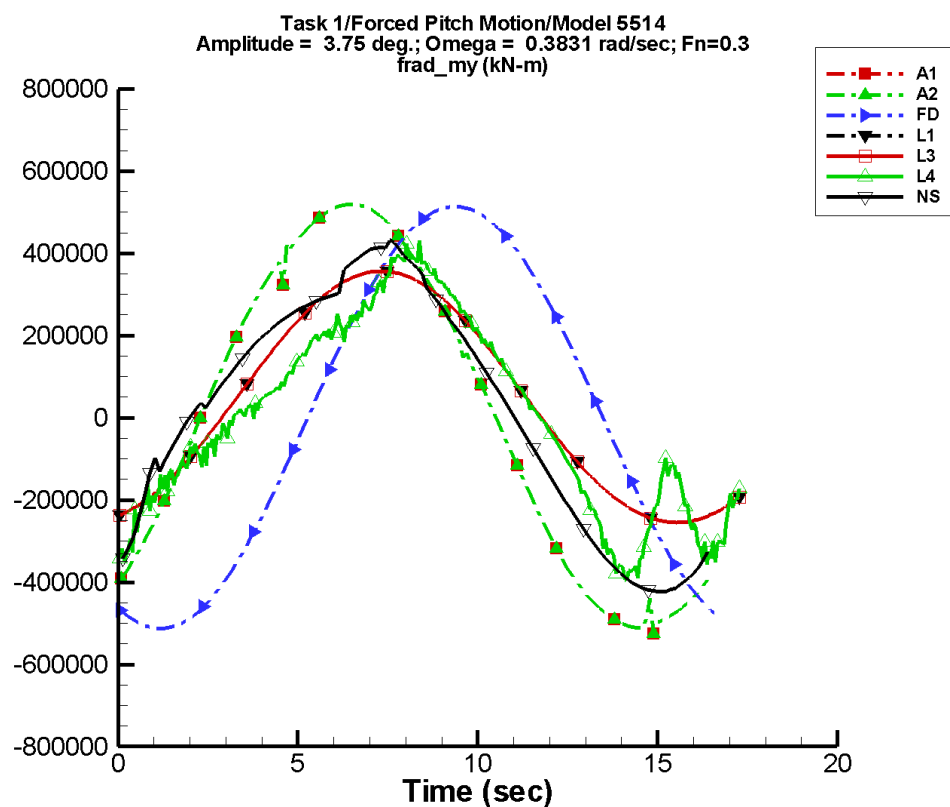
Table F–585. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	447.	3.42E+05	-50	398.	111
A2	447.	3.42E+05	-50	398.	111
FD	2.76E-02	3.42E+05	-116	2.25E-02	-42
L1	4.43E+04	2.04E+05	-71	2.42E+03	130
L3	4.42E+04	2.04E+05	-71	2.42E+03	130
L4	1.76E+04	2.18E+05	-76	3.67E+04	54
NF	—	—	—	—	—
NS	1.55E+04	2.70E+05	-60	2.37E+04	39

Table F–586. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.51E+05	3.46E+05	-3.35E+05	3.45E+05
A2	-3.51E+05	3.46E+05	-3.35E+05	3.45E+05
FD	-3.42E+05	3.42E+05	-3.41E+05	3.41E+05
L1	-1.57E+05	2.50E+05	-1.57E+05	2.50E+05
L3	-1.57E+05	2.50E+05	-1.57E+05	2.50E+05
L4	-2.90E+05	2.87E+05	-2.72E+05	2.74E+05
NF	—	—	—	—
NS	-2.76E+05	3.25E+05	-2.72E+05	3.15E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-294. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

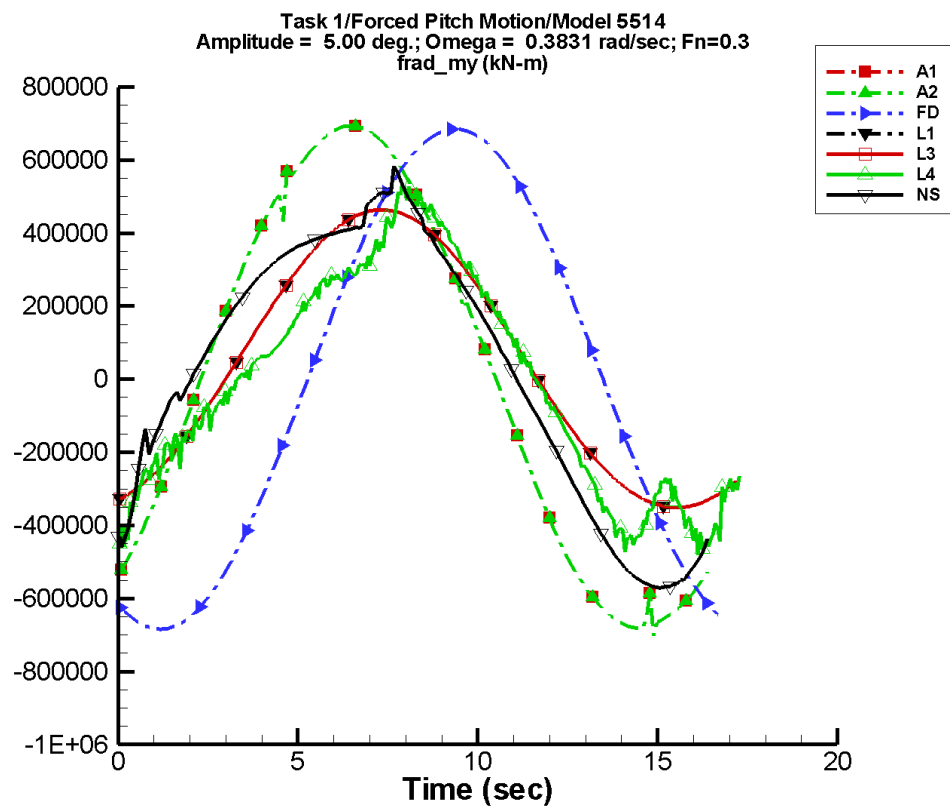
Table F–587. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	670.	5.13E+05	-50	597.	111
A2	670.	5.13E+05	-50	597.	111
FD	6.96E-02	5.13E+05	-116	2.95E-02	124
L1	4.52E+04	3.06E+05	-71	5.44E+03	130
L3	4.52E+04	3.06E+05	-71	5.44E+03	130
L4	1.01E+04	3.11E+05	-75	5.32E+04	47
NF	—	—	—	—	—
NS	1.68E+04	3.86E+05	-58	4.19E+04	12

Table F–588. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.26E+05	5.19E+05	-5.03E+05	5.18E+05
A2	-5.26E+05	5.19E+05	-5.03E+05	5.18E+05
FD	-5.13E+05	5.13E+05	-5.11E+05	5.11E+05
L1	-2.55E+05	3.56E+05	-2.55E+05	3.56E+05
L3	-2.55E+05	3.56E+05	-2.55E+05	3.56E+05
L4	-3.95E+05	4.31E+05	-3.76E+05	3.94E+05
NF	—	—	—	—
NS	-4.23E+05	4.43E+05	-4.20E+05	4.25E+05

TASK 1/PITCH MOTION/MODEL 5514



Data identically zero, insufficient, or not available from NFA.

Figure F-295. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

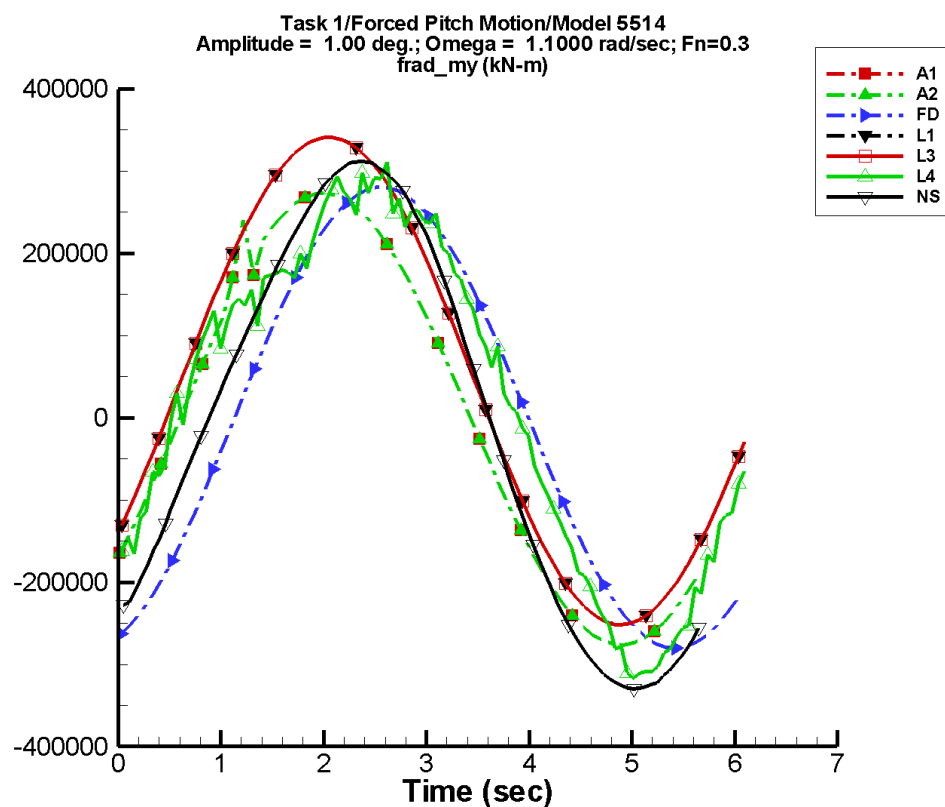
Table F-589. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	895.	6.85E+05	-50	797.	111
A2	895.	6.85E+05	-50	797.	111
FD	5.84E-02	6.84E+05	-116	6.01E-02	-69
L1	4.65E+04	4.07E+05	-71	9.67E+03	130
L3	4.65E+04	4.07E+05	-71	9.67E+03	130
L4	2.82E+03	4.04E+05	-75	6.54E+04	37
NF	—	—	—	—	—
NS	2.56E+04	4.98E+05	-56	7.23E+04	-5

Table F-590. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.02E+05	6.93E+05	-6.71E+05	6.91E+05
A2	-7.02E+05	6.93E+05	-6.71E+05	6.91E+05
FD	-6.84E+05	6.84E+05	-6.82E+05	6.82E+05
L1	-3.51E+05	4.64E+05	-3.51E+05	4.63E+05
L3	-3.51E+05	4.64E+05	-3.51E+05	4.63E+05
L4	-4.81E+05	5.34E+05	-4.46E+05	5.06E+05
NF	—	—	—	—
NS	-5.71E+05	5.95E+05	-5.68E+05	5.43E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-296. Time history of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

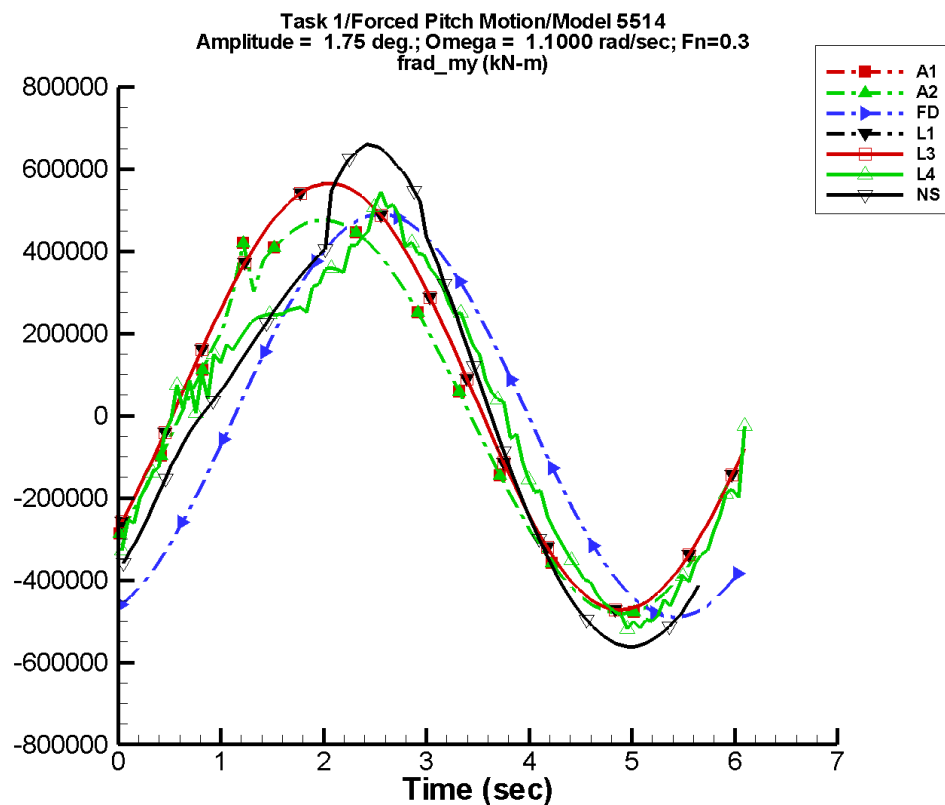
Table F–591. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.77E+03	2.76E+05	-37	4.79E+03	-65
A2	-1.77E+03	2.76E+05	-37	4.79E+03	-65
FD	-5.05E-04	2.80E+05	-72	8.63E-02	-33
L1	4.48E+04	2.96E+05	-39	1.16E+03	90
L3	4.47E+04	2.96E+05	-39	1.15E+03	90
L4	2.75E+04	2.74E+05	-54	4.77E+04	14
NF	—	—	—	—	—
NS	-1.74E+04	3.15E+05	-52	2.14E+04	94

Table F–592. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.00 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.77E+05	2.73E+05	-2.68E+05	2.64E+05
A2	-2.77E+05	2.73E+05	-2.68E+05	2.64E+05
FD	-2.80E+05	2.80E+05	-2.72E+05	2.72E+05
L1	-2.52E+05	3.41E+05	-2.49E+05	3.38E+05
L3	-2.52E+05	3.41E+05	-2.49E+05	3.38E+05
L4	-3.17E+05	3.22E+05	-3.03E+05	2.89E+05
NF	—	—	—	—
NS	-3.30E+05	3.12E+05	-3.27E+05	3.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-297. Time history of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

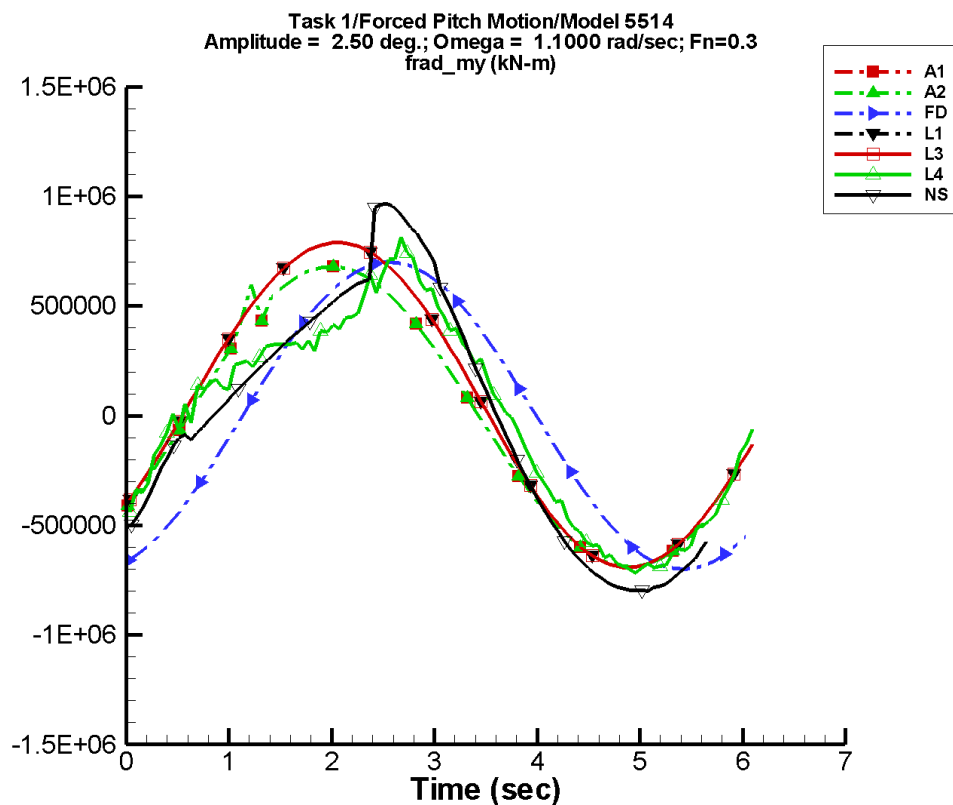
Table F–593. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.09E+03	4.80E+05	-37	8.34E+03	-65
A2	-3.09E+03	4.80E+05	-37	8.34E+03	-65
FD	2.06E-02	4.91E+05	-72	0.130	-35
L1	4.69E+04	5.19E+05	-39	3.45E+03	89
L3	4.69E+04	5.19E+05	-39	3.44E+03	89
L4	1.36E+04	4.49E+05	-52	9.37E+04	35
NF	—	—	—	—	—
NS	-4.37E+03	5.53E+05	-53	9.14E+04	88

Table F–594. Minimum and maximum of M_y^{rad} for one period at amplitude = 1.75 deg, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed pitch motion of Model 5514 scaled to $L = 142$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.82E+05	4.76E+05	-4.67E+05	4.60E+05
A2	-4.82E+05	4.76E+05	-4.67E+05	4.60E+05
FD	-4.91E+05	4.90E+05	-4.76E+05	4.75E+05
L1	-4.73E+05	5.65E+05	-4.67E+05	5.59E+05
L3	-4.73E+05	5.65E+05	-4.67E+05	5.59E+05
L4	-5.18E+05	5.45E+05	-4.96E+05	4.81E+05
NF	—	—	—	—
NS	-5.62E+05	6.66E+05	-5.55E+05	6.54E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-298. Time history of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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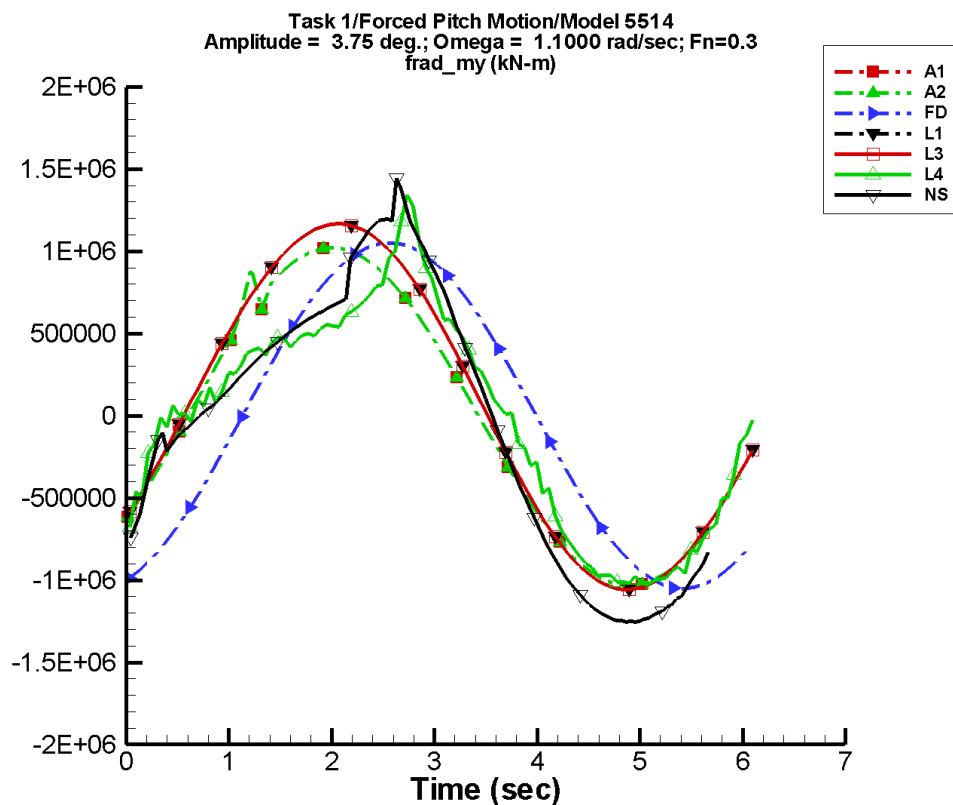
Table F–595. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.41E+03	6.87E+05	-37	1.19E+04	-65
A2	-4.41E+03	6.87E+05	-37	1.19E+04	-65
FD	2.32E-02	7.01E+05	-72	0.250	-22
L1	5.02E+04	7.41E+05	-39	7.03E+03	89
L3	5.02E+04	7.41E+05	-39	7.01E+03	89
L4	5.58E+03	6.20E+05	-51	1.56E+05	42
NF	—	—	—	—	—
NS	-2.88E+04	7.43E+05	-54	1.61E+05	75

Table F–596. Minimum and maximum of M_y^{rad} for one period at amplitude = 2.50 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.89E+05	6.81E+05	-6.68E+05	6.57E+05
A2	-6.89E+05	6.81E+05	-6.68E+05	6.57E+05
FD	-7.01E+05	7.00E+05	-6.79E+05	6.79E+05
L1	-6.93E+05	7.90E+05	-6.84E+05	7.82E+05
L3	-6.93E+05	7.90E+05	-6.84E+05	7.81E+05
L4	-7.18E+05	8.15E+05	-6.91E+05	6.94E+05
NF	—	—	—	—
NS	-7.98E+05	9.74E+05	-7.91E+05	9.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure F-299. Time history of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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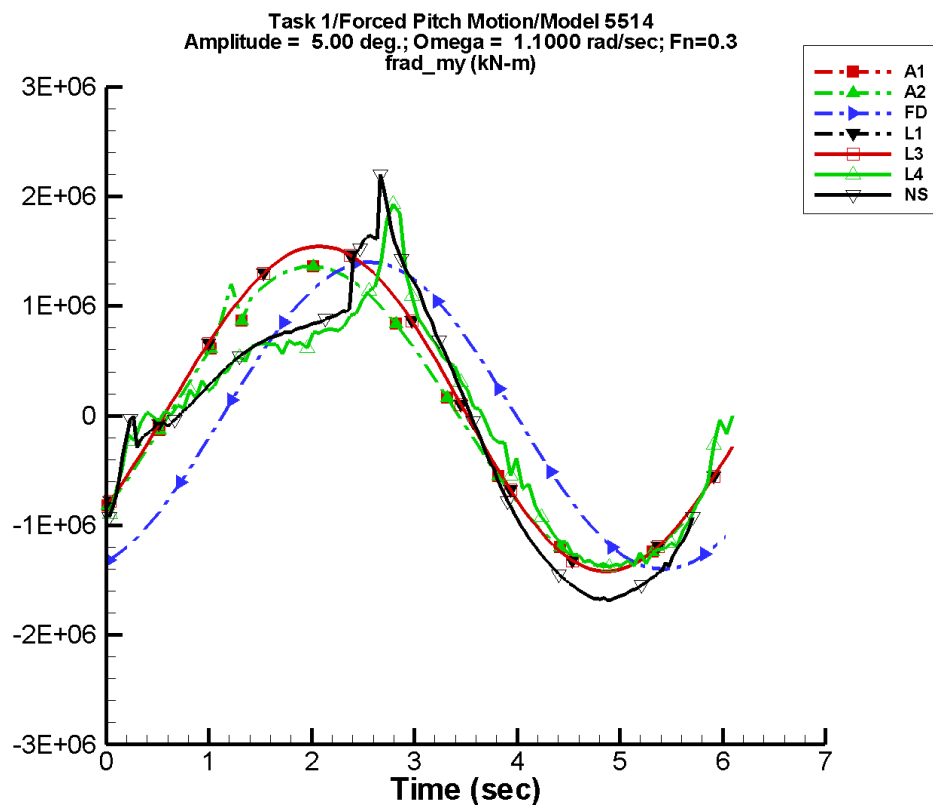
Table F-597. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.62E+03	1.03E+06	-37	1.79E+04	-65
A2	-6.62E+03	1.03E+06	-37	1.79E+04	-65
FD	6.04E-02	1.05E+06	-72	0.223	-1
L1	5.82E+04	1.11E+06	-39	1.58E+04	88
L3	5.82E+04	1.11E+06	-39	1.58E+04	88
L4	-2.52E+03	9.04E+05	-51	2.63E+05	46
NF	—	—	—	—	—
NS	-7.69E+04	1.10E+06	-49	2.63E+05	69

Table F-598. Minimum and maximum of M_y^{rad} for one period at amplitude = 3.75 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.03E+06	1.02E+06	-1.00E+06	9.86E+05
A2	-1.03E+06	1.02E+06	-1.00E+06	9.86E+05
FD	-1.05E+06	1.05E+06	-1.02E+06	1.02E+06
L1	-1.06E+06	1.17E+06	-1.04E+06	1.15E+06
L3	-1.06E+06	1.17E+06	-1.04E+06	1.15E+06
L4	-1.02E+06	1.35E+06	-1.01E+06	1.09E+06
NF	—	—	—	—
NS	-1.25E+06	1.44E+06	-1.25E+06	1.26E+06

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Data identically zero, insufficient, or not available from NFA.

Figure F-300. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

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Table F–599. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.83E+03	1.38E+06	-37	2.39E+04	-65
A2	-8.83E+03	1.38E+06	-37	2.39E+04	-65
FD	5.59E-02	1.40E+06	-72	0.560	-17
L1	6.95E+04	1.48E+06	-39	2.81E+04	88
L3	6.95E+04	1.48E+06	-39	2.81E+04	88
L4	-1.47E+04	1.20E+06	-51	3.57E+05	47
NF	—	—	—	—	—
NS	-9.84E+04	1.41E+06	-47	3.94E+05	64

Table F–600. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed pitch motion of Model 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.38E+06	1.36E+06	-1.34E+06	1.32E+06
A2	-1.38E+06	1.36E+06	-1.34E+06	1.32E+06
FD	-1.40E+06	1.40E+06	-1.36E+06	1.36E+06
L1	-1.42E+06	1.55E+06	-1.40E+06	1.53E+06
L3	-1.42E+06	1.55E+06	-1.40E+06	1.53E+06
L4	-1.38E+06	1.93E+06	-1.35E+06	1.50E+06
NF	—	—	—	—
NS	-1.68E+06	2.20E+06	-1.67E+06	1.80E+06