

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

Appendix A — Time History Plots for Prescribed Heave Motion of Model 5613

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Introduction

This appendix contains all the plots and tables for the simulations of task 1 that involve 1-DOF prescribed heave motion of Model 5613 scaled to the length 154 m. Each of Figures A–1 through A–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 heave displacement of CG is of the form $z/T = z_a \sin \omega t$ for some amplitude z_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 Furthermore, the time t has been replaced by $t \bmod T_e$ where T_e is the period of the motion.

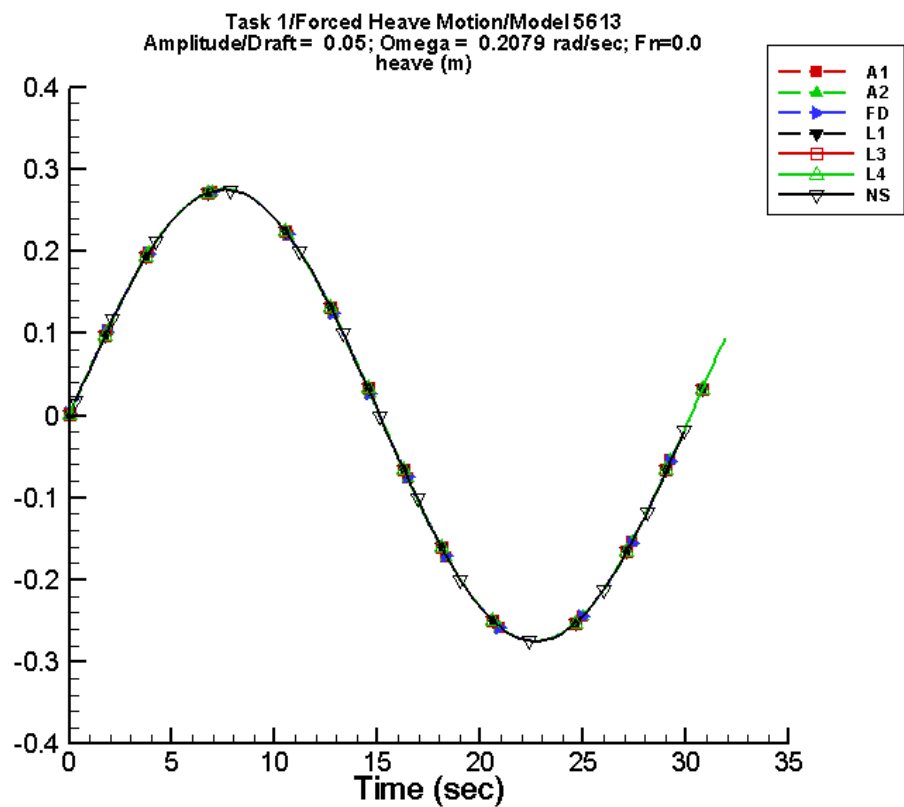
Tables A–1 through A–600 contain information related to the results depicted in the figures. Two tables follow each figure. The first table gives estimates of the mean value and the amplitudes and phases of the first and second harmonics obtained by Fourier analysis. The second table gives the minimum and maximum of the variable plotted in the figure. The minimum and maximum of both the filtered and unfiltered variables are provided. However, 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 K contains plots and tables for the behavior of the minimum and the maximum of each variable plotted in this appendix versus the nondimensional amplitude z_a/T .

In the prescribed heave motions of task 1, the frequencies and nondimensional amplitudes 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 the prescribed heave motion of task 1, they are given in the main part of the report and are also here for ease of reference:

Heave Motion $z_e = z_a \sin(\omega t)$					
Heave Amplitudes z_a					
% of T_{mean}	5	10	20	40	80
M5514 (m)	0.326	0.651	1.302	2.604	5.208
M5613 (m)	0.275	0.550	1.100	2.200	4.400
Heave 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/HEAVE MOTION/MODEL 5613



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

Figure A-1. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $Fr = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

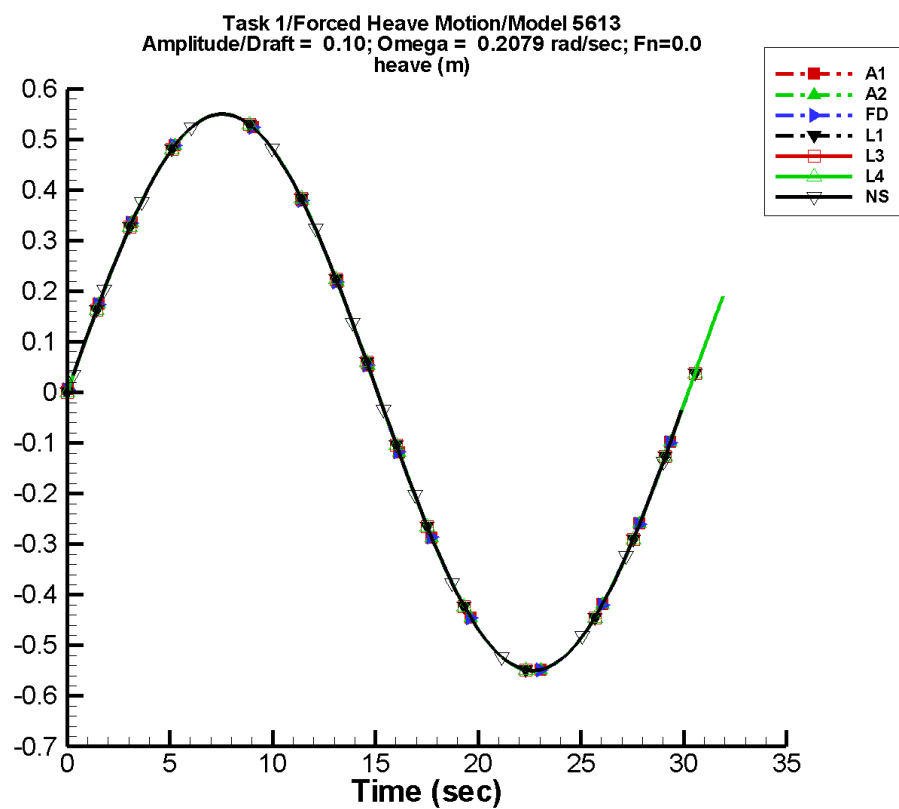
Table A–1. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.82E-07	0.275	0	2.79E-07	-20
A2	-1.82E-07	0.275	0	2.79E-07	-20
FD	-3.18E-08	0.275	0	2.39E-08	-171
L1	-1.97E-07	0.275	0	1.95E-08	151
L3	-1.97E-07	0.275	0	1.95E-08	151
L4	-1.97E-07	0.275	0	1.95E-08	151
NF	—	—	—	—	—
NS	2.93E-08	0.275	0	2.83E-08	14

Table A–2. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.275	0.275
A2	-0.275	0.275	-0.275	0.275
FD	-0.275	0.275	-0.275	0.275
L1	-0.275	0.275	-0.275	0.275
L3	-0.275	0.275	-0.275	0.275
L4	-0.275	0.275	-0.275	0.275
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-2. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

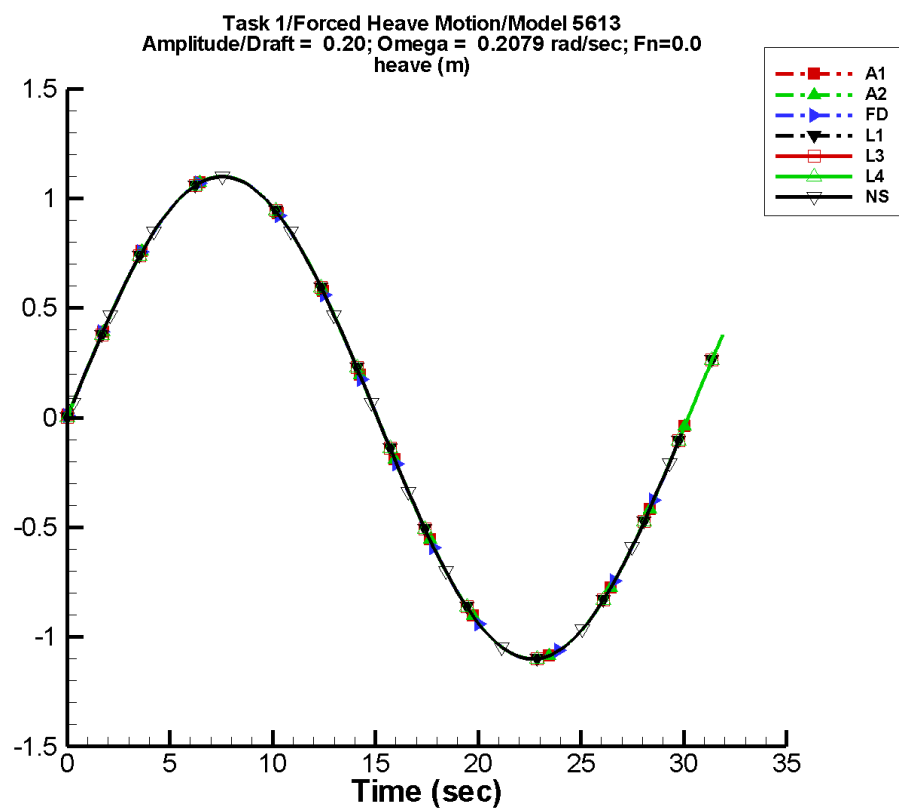
Table A–3. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-3.78E-07	0.550	0	5.57E-07	-22
A2	-3.78E-07	0.550	0	5.57E-07	-22
FD	-9.58E-08	0.550	0	3.80E-08	-170
L1	-4.35E-07	0.550	0	1.96E-08	77
L3	-4.35E-07	0.550	0	1.96E-08	77
L4	-4.35E-07	0.550	0	1.96E-08	77
NF	—	—	—	—	—
NS	6.32E-08	0.550	0	4.40E-08	-1

Table A–4. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.549	0.550
A2	-0.550	0.550	-0.549	0.550
FD	-0.550	0.550	-0.549	0.549
L1	-0.550	0.550	-0.550	0.550
L3	-0.550	0.550	-0.550	0.550
L4	-0.550	0.550	-0.550	0.550
NF	—	—	—	—
NS	-0.550	0.550	-0.545	0.545

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-3. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

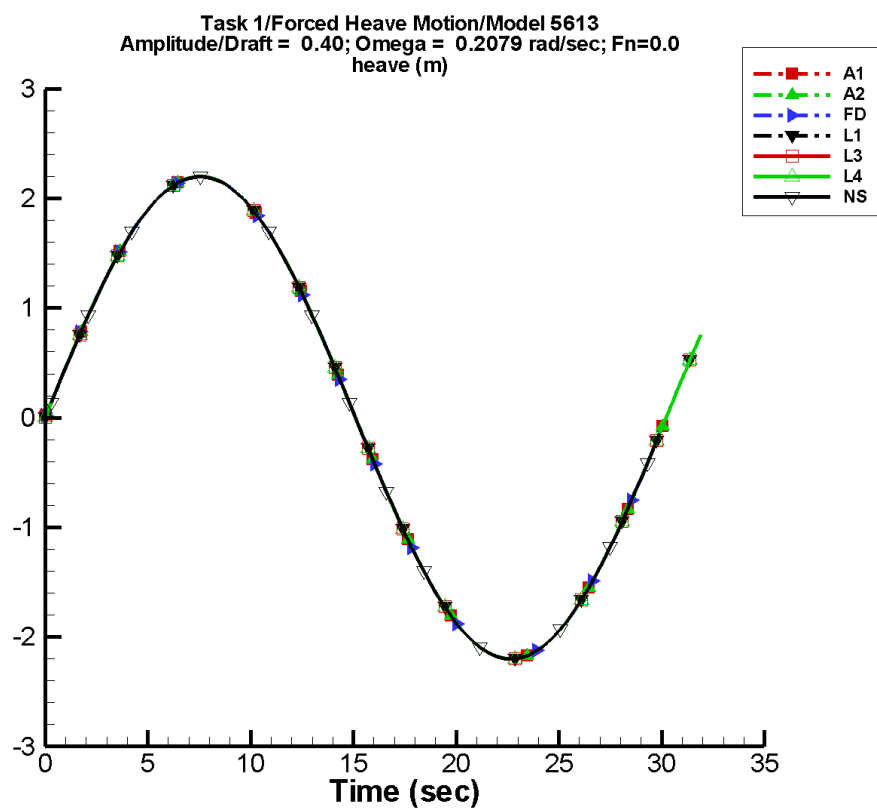
Table A–5. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-7.22E-07	1.10	0	1.13E-06	-22
A2	-7.22E-07	1.10	0	1.13E-06	-22
FD	-1.75E-07	1.10	0	7.44E-08	161
L1	-7.49E-07	1.10	0	9.97E-08	-24
L3	-7.49E-07	1.10	0	9.97E-08	-24
L4	-7.49E-07	1.10	0	9.97E-08	-24
NF	—	—	—	—	—
NS	1.29E-07	1.10	0	6.56E-08	15

Table A–6. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.10	1.10
A2	-1.10	1.10	-1.10	1.10
FD	-1.10	1.10	-1.10	1.10
L1	-1.10	1.10	-1.10	1.10
L3	-1.10	1.10	-1.10	1.10
L4	-1.10	1.10	-1.10	1.10
NF	—	—	—	—
NS	-1.10	1.10	-1.09	1.09

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

Figure A-4. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

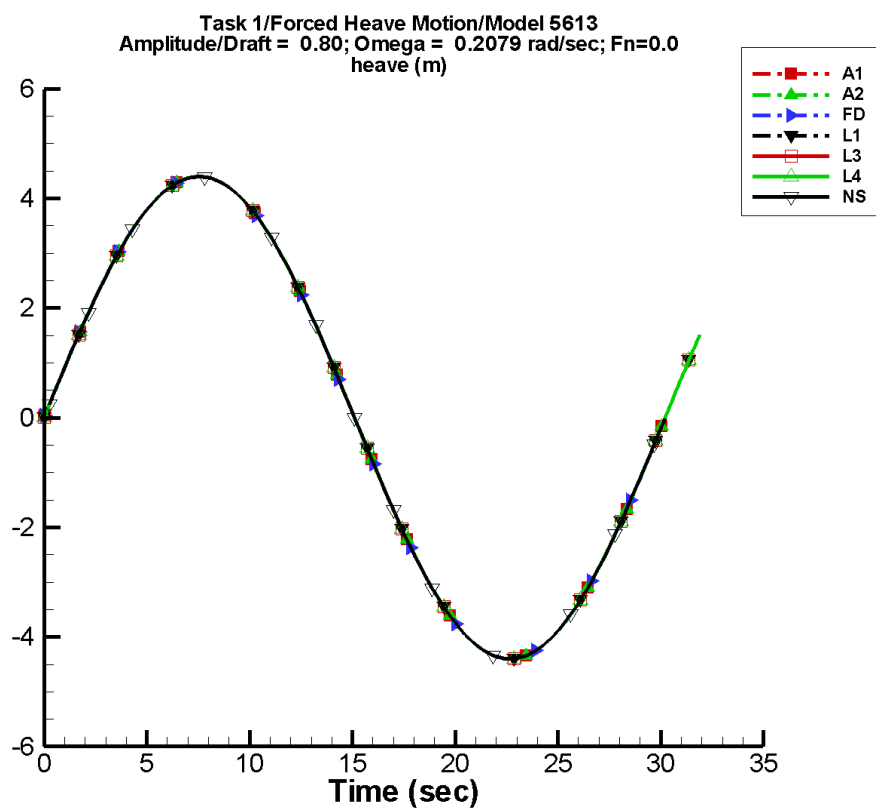
Table A–7. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.62E-06	2.20	0	2.11E-06	-18
A2	-1.62E-06	2.20	0	2.11E-06	-18
FD	-3.96E-07	2.20	0	1.10E-07	-175
L1	-1.22E-06	2.20	0	4.00E-07	-18
L3	-1.22E-06	2.20	0	4.00E-07	-18
L4	-1.22E-06	2.20	0	4.00E-07	-18
NF	—	—	—	—	—
NS	2.39E-07	2.20	0	1.73E-07	-5

Table A–8. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.20	2.20
A2	-2.20	2.20	-2.20	2.20
FD	-2.20	2.20	-2.20	2.20
L1	-2.20	2.20	-2.20	2.20
L3	-2.20	2.20	-2.20	2.20
L4	-2.20	2.20	-2.20	2.20
NF	—	—	—	—
NS	-2.20	2.20	-2.18	2.18

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-5. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

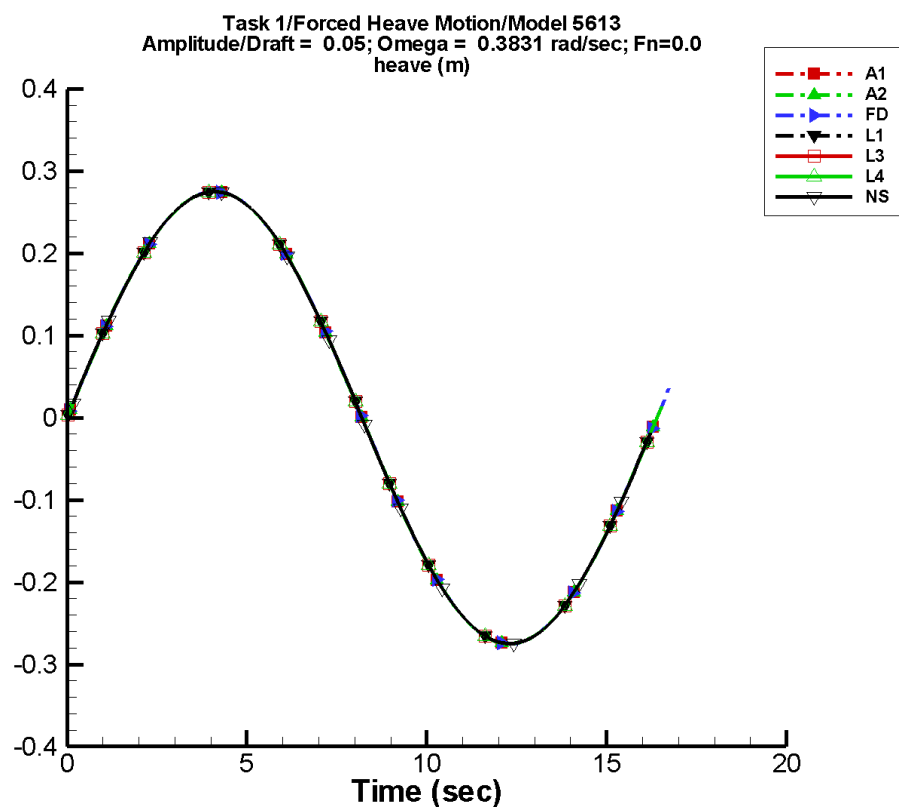
Table A–9. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-3.05E-06	4.40	0	4.24E-06	-22
A2	-3.05E-06	4.40	0	4.24E-06	-22
FD	-9.35E-07	4.40	0	3.70E-07	-167
L1	-2.70E-06	4.40	0	2.15E-07	-118
L3	-2.70E-06	4.40	0	2.15E-07	-118
L4	-2.70E-06	4.40	0	2.15E-07	-118
NF	—	—	—	—	—
NS	2.05E-07	4.40	0	9.46E-07	-17

Table A–10. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.40	4.40
A2	-4.40	4.40	-4.40	4.40
FD	-4.40	4.40	-4.40	4.40
L1	-4.40	4.40	-4.40	4.40
L3	-4.40	4.40	-4.40	4.40
L4	-4.40	4.40	-4.40	4.40
NF	—	—	—	—
NS	-4.40	4.40	-4.36	4.36

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

Figure A-6. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

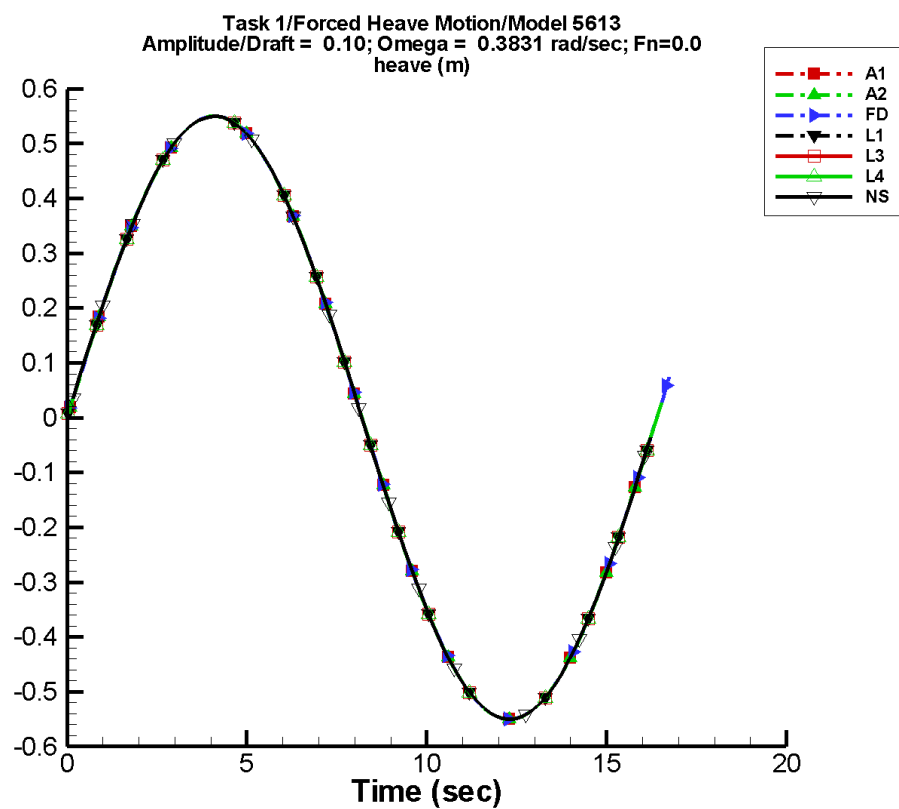
Table A–11. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	1.38E-08	0.275	0	2.74E-08	-106
A2	1.38E-08	0.275	0	2.74E-08	-106
FD	-1.63E-08	0.275	0	1.69E-08	-60
L1	-3.95E-07	0.275	0	4.19E-08	109
L3	-3.95E-07	0.275	0	4.19E-08	109
L4	-3.95E-07	0.275	0	4.19E-08	109
NF	—	—	—	—	—
NS	5.12E-09	0.275	0	1.63E-08	178

Table A–12. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.274	0.276
A2	-0.275	0.275	-0.274	0.276
FD	-0.275	0.275	-0.274	0.274
L1	-0.275	0.275	-0.275	0.275
L3	-0.275	0.275	-0.275	0.275
L4	-0.275	0.275	-0.275	0.275
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

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

Figure A-7. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

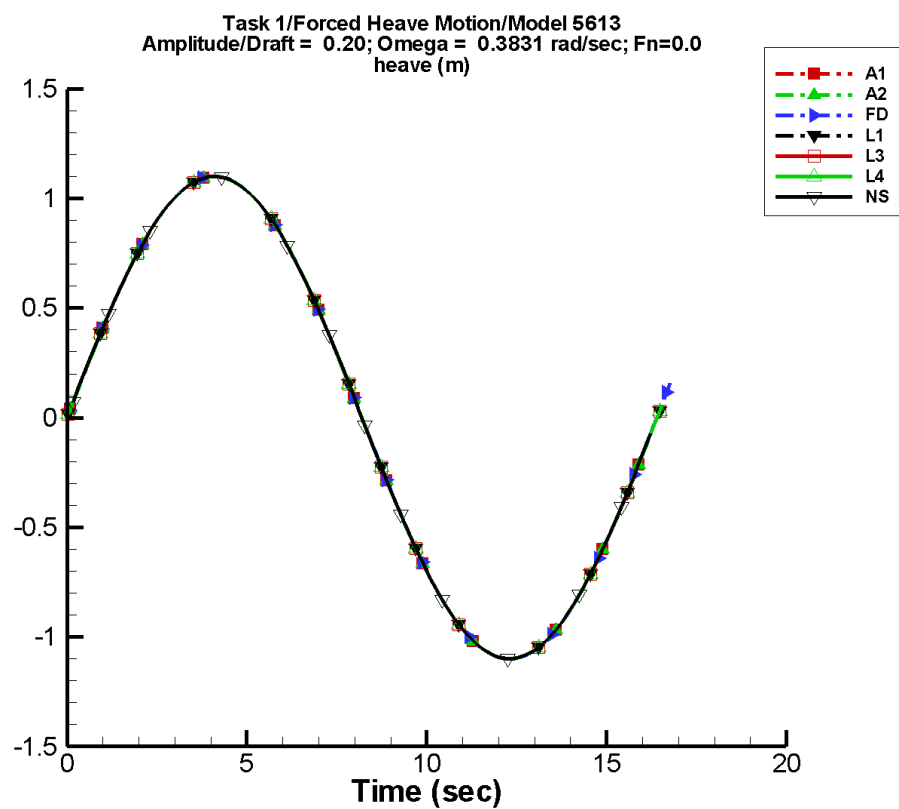
Table A–13. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	7.26E-09	0.550	0	6.02E-08	-115
A2	7.26E-09	0.550	0	6.02E-08	-115
FD	-4.38E-08	0.550	0	1.09E-08	-69
L1	-6.99E-07	0.550	0	1.49E-07	122
L3	-6.99E-07	0.550	0	1.49E-07	122
L4	-6.99E-07	0.550	0	1.49E-07	122
NF	—	—	—	—	—
NS	1.96E-08	0.550	0	4.22E-08	165

Table A–14. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.548	0.552
A2	-0.550	0.550	-0.548	0.552
FD	-0.550	0.550	-0.548	0.548
L1	-0.550	0.550	-0.549	0.549
L3	-0.550	0.550	-0.549	0.549
L4	-0.550	0.550	-0.549	0.549
NF	—	—	—	—
NS	-0.550	0.550	-0.544	0.544

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

Figure A–8. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

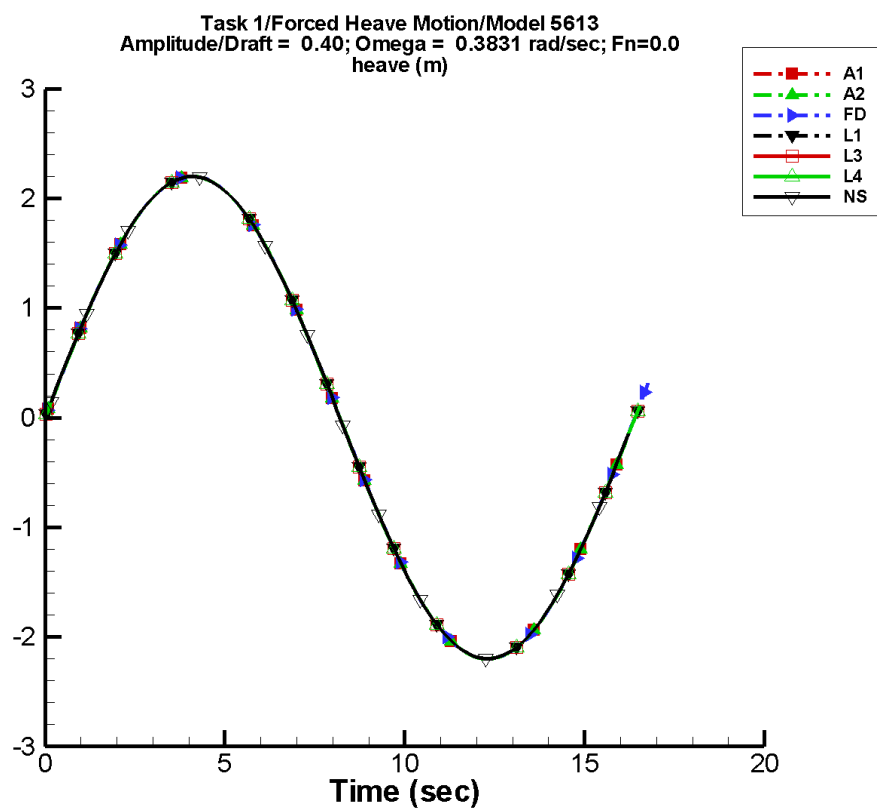
Table A–15. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	2.27E-08	1.10	0	8.86E-08	-117
A2	2.27E-08	1.10	0	8.86E-08	-117
FD	-1.05E-07	1.10	0	1.32E-07	-71
L1	-1.33E-06	1.10	0	1.38E-07	125
L3	-1.33E-06	1.10	0	1.38E-07	125
L4	-1.33E-06	1.10	0	1.38E-07	125
NF	—	—	—	—	—
NS	4.58E-08	1.10	0	9.25E-08	144

Table A–16. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.10	1.10
A2	-1.10	1.10	-1.10	1.10
FD	-1.10	1.10	-1.10	1.10
L1	-1.10	1.10	-1.10	1.10
L3	-1.10	1.10	-1.10	1.10
L4	-1.10	1.10	-1.10	1.10
NF	—	—	—	—
NS	-1.10	1.10	-1.09	1.09

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

Figure A-9. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

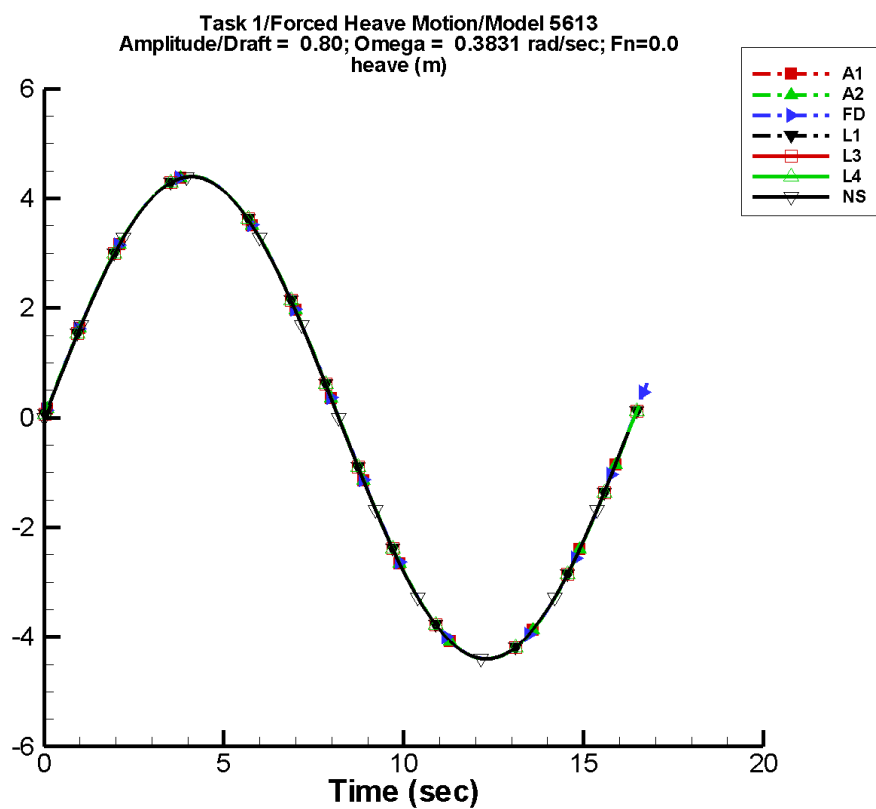
Table A–17. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	3.01E-08	2.20	0	2.28E-07	-151
A2	3.01E-08	2.20	0	2.28E-07	-151
FD	-1.66E-07	2.20	0	1.32E-07	-56
L1	-2.90E-06	2.20	0	4.05E-07	135
L3	-2.90E-06	2.20	0	4.05E-07	135
L4	-2.90E-06	2.20	0	4.05E-07	135
NF	—	—	—	—	—
NS	-3.34E-08	2.20	0	2.19E-07	162

Table A–18. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.19	2.21
A2	-2.20	2.20	-2.19	2.21
FD	-2.20	2.20	-2.19	2.19
L1	-2.20	2.20	-2.20	2.20
L3	-2.20	2.20	-2.20	2.20
L4	-2.20	2.20	-2.20	2.20
NF	—	—	—	—
NS	-2.20	2.20	-2.18	2.18

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

Figure A-10. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

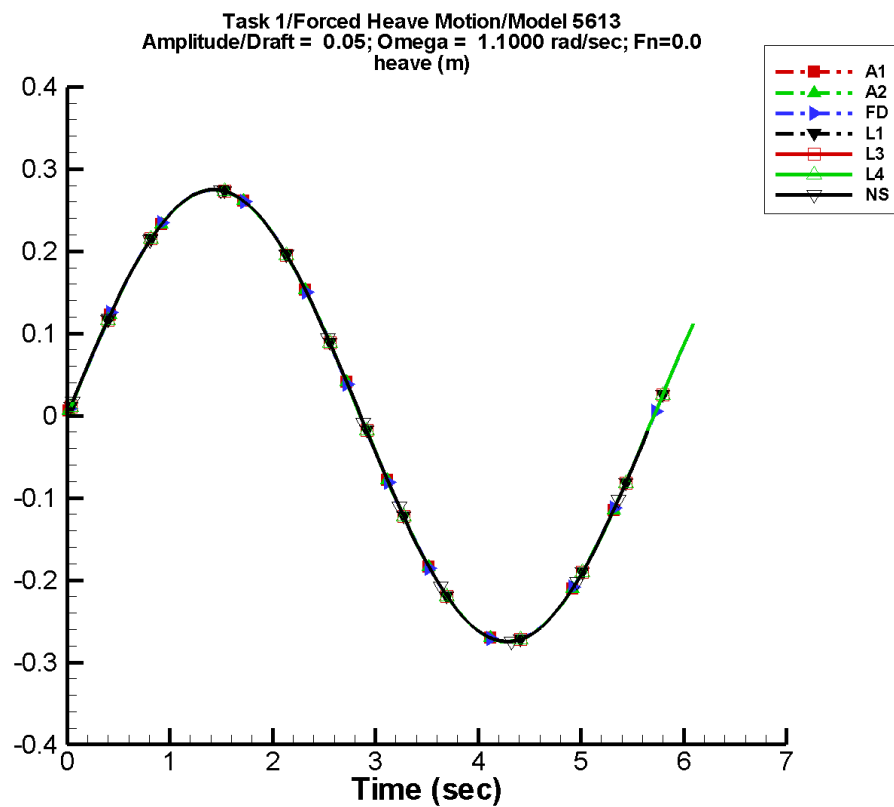
Table A–19. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	5.34E-08	4.40	0	3.54E-07	-117
A2	5.34E-08	4.40	0	3.54E-07	-117
FD	-2.70E-07	4.40	0	3.69E-07	-83
L1	-6.32E-06	4.40	0	1.08E-06	119
L3	-6.32E-06	4.40	0	1.08E-06	119
L4	-6.32E-06	4.40	0	1.08E-06	119
NF	—	—	—	—	—
NS	4.96E-07	4.40	0	3.17E-07	81

Table A–20. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.38	4.41
A2	-4.40	4.40	-4.38	4.41
FD	-4.40	4.40	-4.38	4.38
L1	-4.40	4.40	-4.39	4.39
L3	-4.40	4.40	-4.39	4.39
L4	-4.40	4.40	-4.39	4.39
NF	—	—	—	—
NS	-4.40	4.40	-4.36	4.36

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

Figure A-11. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

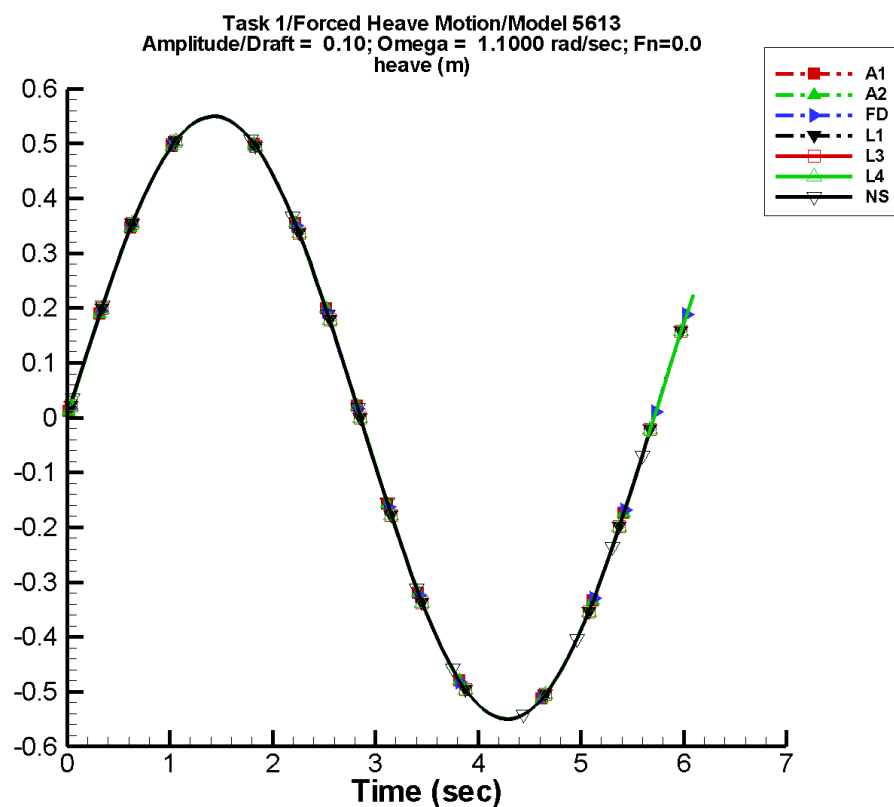
Table A–21. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-2.91E-07	0.275	0	4.31E-07	-11
A2	-2.91E-07	0.275	0	4.31E-07	-11
FD	-5.43E-08	0.275	0	6.38E-08	11
L1	-5.88E-07	0.275	0	5.41E-08	164
L3	-5.88E-07	0.275	0	5.41E-08	164
L4	-5.88E-07	0.275	0	5.41E-08	164
NF	—	—	—	—	—
NS	-1.04E-08	0.275	0	2.61E-08	-66

Table A–22. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.266	0.268
A2	-0.275	0.275	-0.266	0.268
FD	-0.275	0.275	-0.266	0.266
L1	-0.275	0.275	-0.272	0.272
L3	-0.275	0.275	-0.272	0.272
L4	-0.275	0.275	-0.272	0.272
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

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

Figure A-12. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

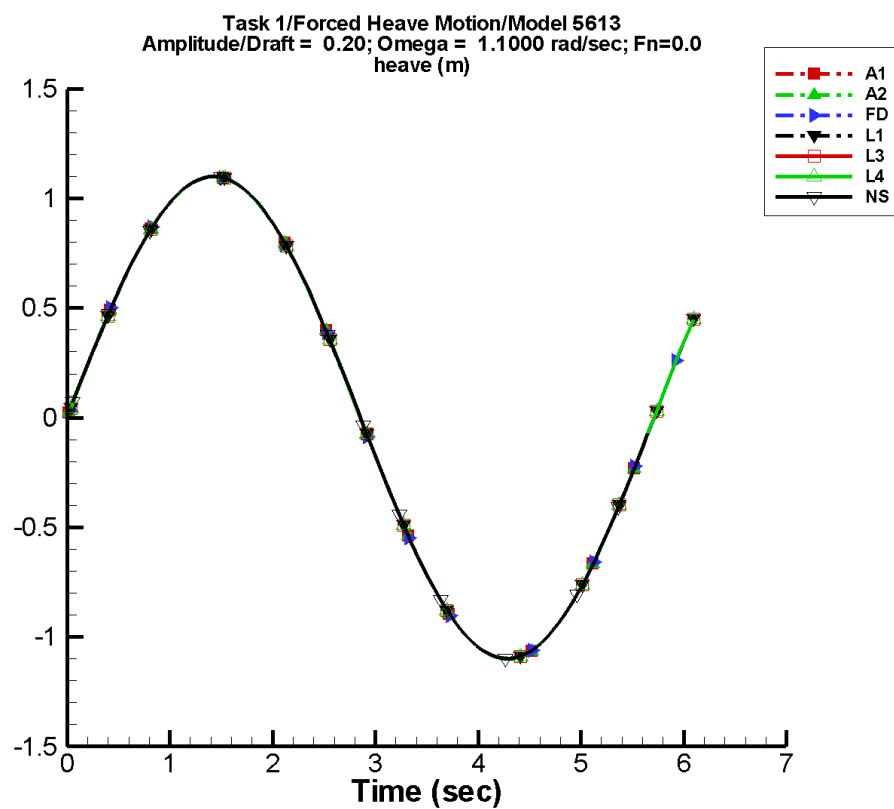
Table A–23. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-5.71E-07	0.550	0	8.82E-07	-13
A2	-5.71E-07	0.550	0	8.82E-07	-13
FD	-1.21E-07	0.550	0	1.27E-07	19
L1	-1.20E-06	0.550	0	7.66E-08	-154
L3	-1.20E-06	0.550	0	7.66E-08	-154
L4	-1.20E-06	0.550	0	7.66E-08	-154
NF	—	—	—	—	—
NS	-1.84E-08	0.550	0	4.50E-08	-79

Table A–24. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.533	0.537
A2	-0.550	0.550	-0.533	0.537
FD	-0.549	0.550	-0.533	0.533
L1	-0.550	0.550	-0.544	0.544
L3	-0.550	0.550	-0.544	0.544
L4	-0.550	0.550	-0.544	0.544
NF	—	—	—	—
NS	-0.550	0.550	-0.544	0.544

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

Figure A-13. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

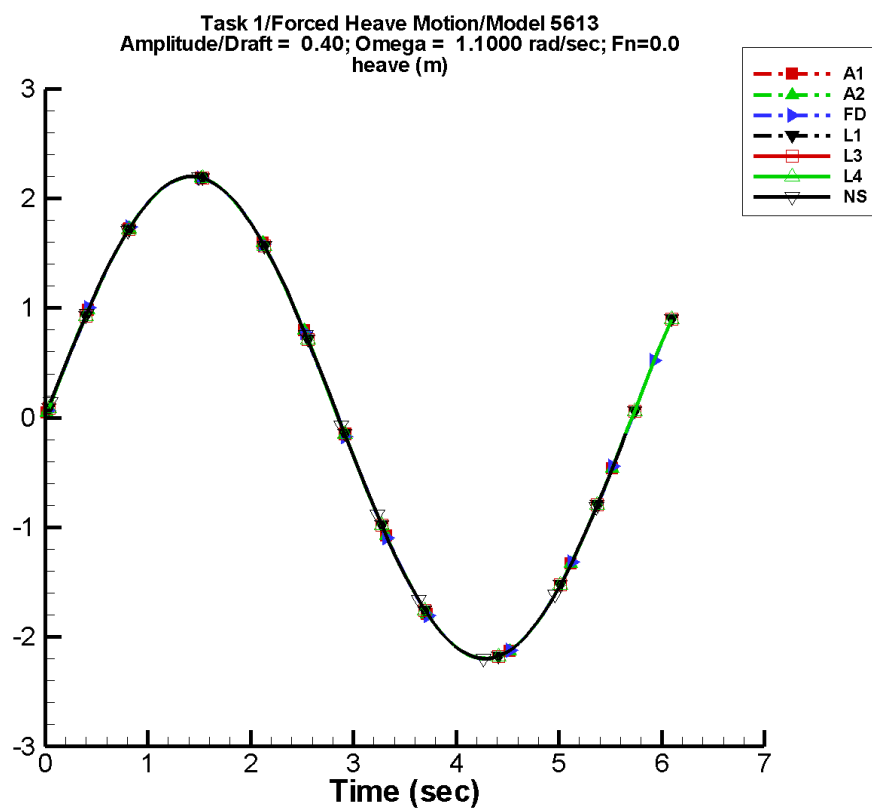
Table A–25. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.21E-06	1.10	0	1.79E-06	-10
A2	-1.21E-06	1.10	0	1.79E-06	-10
FD	-2.64E-07	1.10	0	3.05E-07	14
L1	-2.35E-06	1.10	0	9.72E-08	-149
L3	-2.35E-06	1.10	0	9.72E-08	-149
L4	-2.35E-06	1.10	0	9.72E-08	-149
NF	—	—	—	—	—
NS	-4.64E-08	1.10	0	7.87E-08	-84

Table A–26. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.07	1.07
A2	-1.10	1.10	-1.07	1.07
FD	-1.10	1.10	-1.07	1.07
L1	-1.10	1.10	-1.09	1.09
L3	-1.10	1.10	-1.09	1.09
L4	-1.10	1.10	-1.09	1.09
NF	—	—	—	—
NS	-1.10	1.10	-1.09	1.09

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

Figure A-14. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

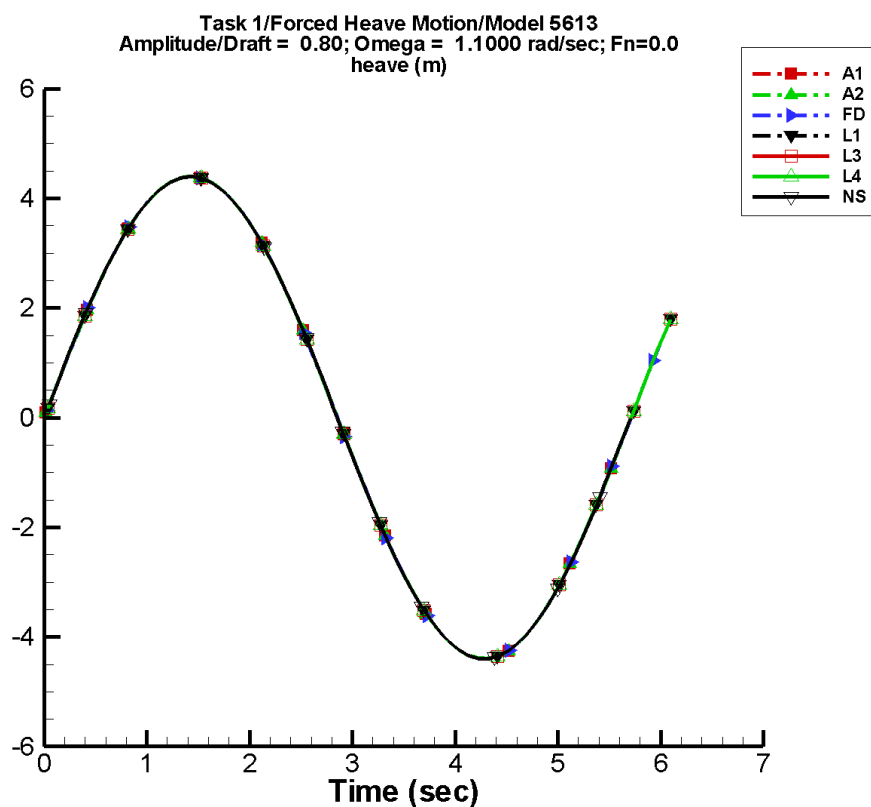
Table A–27. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-2.33E-06	2.20	0	3.45E-06	-11
A2	-2.33E-06	2.20	0	3.45E-06	-11
FD	-4.83E-07	2.20	0	4.96E-07	12
L1	-4.81E-06	2.20	0	1.28E-07	-88
L3	-4.81E-06	2.20	0	1.28E-07	-88
L4	-4.81E-06	2.20	0	1.28E-07	-88
NF	—	—	—	—	—
NS	-3.47E-08	2.20	0	2.07E-07	-98

Table A–28. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.13	2.15
A2	-2.20	2.20	-2.13	2.15
FD	-2.20	2.20	-2.13	2.13
L1	-2.20	2.20	-2.17	2.17
L3	-2.20	2.20	-2.17	2.17
L4	-2.20	2.20	-2.17	2.17
NF	—	—	—	—
NS	-2.20	2.20	-2.18	2.18

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

Figure A-15. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

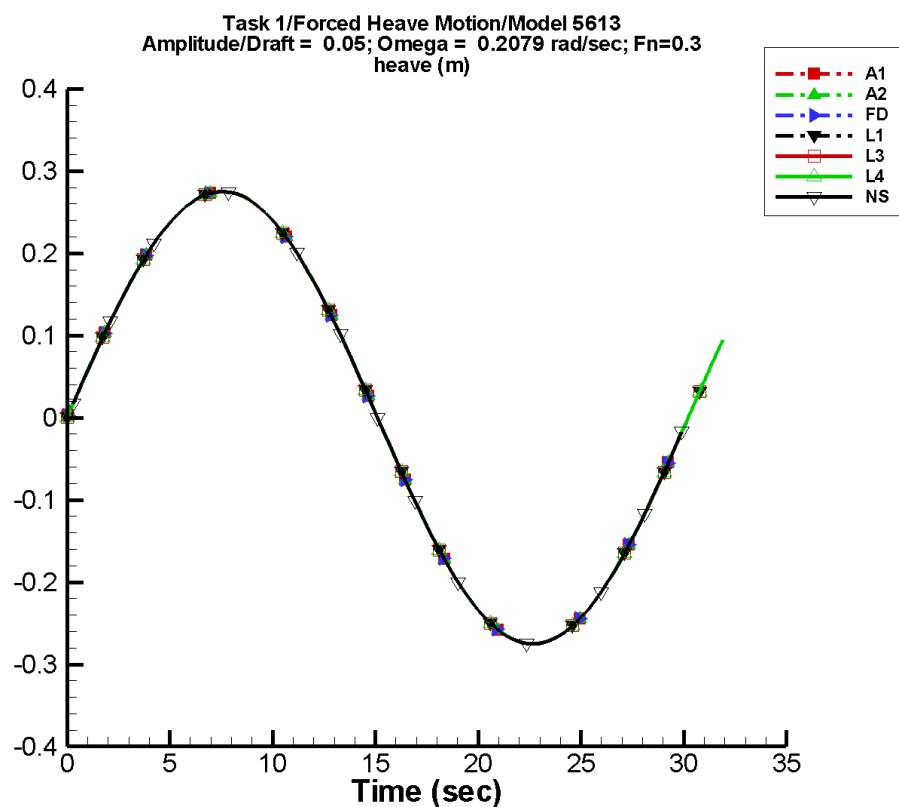
Table A–29. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-4.73E-06	4.40	0	7.02E-06	-11
A2	-4.73E-06	4.40	0	7.02E-06	-11
FD	-9.56E-07	4.40	0	9.86E-07	14
L1	-9.72E-06	4.40	0	1.22E-06	179
L3	-9.72E-06	4.40	0	1.22E-06	179
L4	-9.72E-06	4.40	0	1.22E-06	179
NF	—	—	—	—	—
NS	-4.82E-07	4.40	0	1.77E-07	98

Table A–30. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.26	4.29
A2	-4.40	4.40	-4.26	4.29
FD	-4.39	4.40	-4.26	4.26
L1	-4.40	4.40	-4.35	4.35
L3	-4.40	4.40	-4.35	4.35
L4	-4.40	4.40	-4.35	4.35
NF	—	—	—	—
NS	-4.40	4.40	-4.36	4.36

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

Figure A-16. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

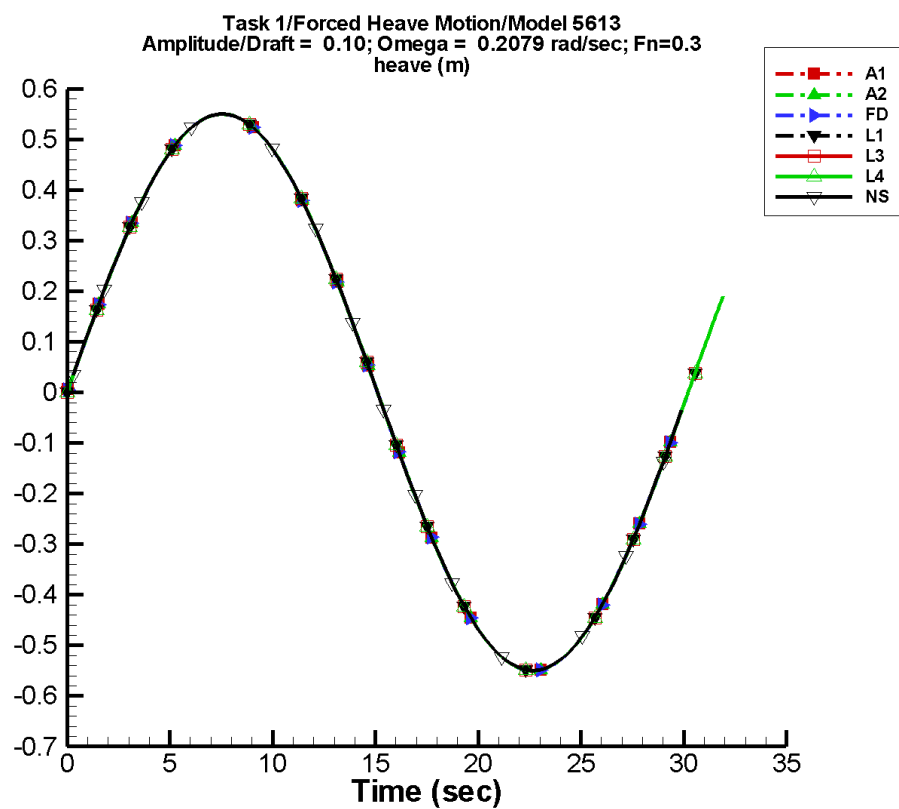
Table A–31. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.82E-07	0.275	0	2.79E-07	-20
A2	-1.82E-07	0.275	0	2.79E-07	-20
FD	-3.18E-08	0.275	0	2.39E-08	-171
L1	-1.97E-07	0.275	0	1.95E-08	151
L3	-1.97E-07	0.275	0	1.95E-08	151
L4	-1.97E-07	0.275	0	1.95E-08	151
NF	—	—	—	—	—
NS	2.93E-08	0.275	0	2.83E-08	14

Table A–32. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.275	0.275
A2	-0.275	0.275	-0.275	0.275
FD	-0.275	0.275	-0.275	0.275
L1	-0.275	0.275	-0.275	0.275
L3	-0.275	0.275	-0.275	0.275
L4	-0.275	0.275	-0.275	0.275
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–17. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

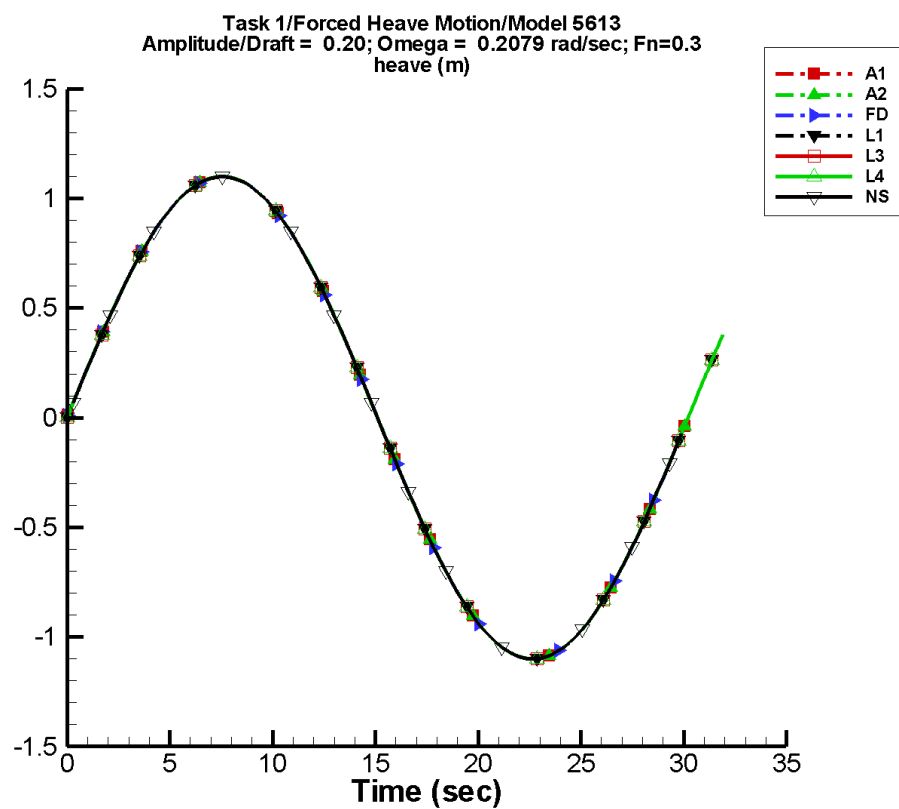
Table A–33. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-3.78E-07	0.550	0	5.57E-07	-22
A2	-3.78E-07	0.550	0	5.57E-07	-22
FD	-9.58E-08	0.550	0	3.80E-08	-170
L1	-4.35E-07	0.550	0	1.96E-08	77
L3	-4.35E-07	0.550	0	1.96E-08	77
L4	-4.35E-07	0.550	0	1.96E-08	77
NF	—	—	—	—	—
NS	6.32E-08	0.550	0	4.40E-08	-1

Table A–34. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.549	0.550
A2	-0.550	0.550	-0.549	0.550
FD	-0.550	0.550	-0.549	0.549
L1	-0.550	0.550	-0.550	0.550
L3	-0.550	0.550	-0.550	0.550
L4	-0.550	0.550	-0.550	0.550
NF	—	—	—	—
NS	-0.550	0.550	-0.545	0.545

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–18. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

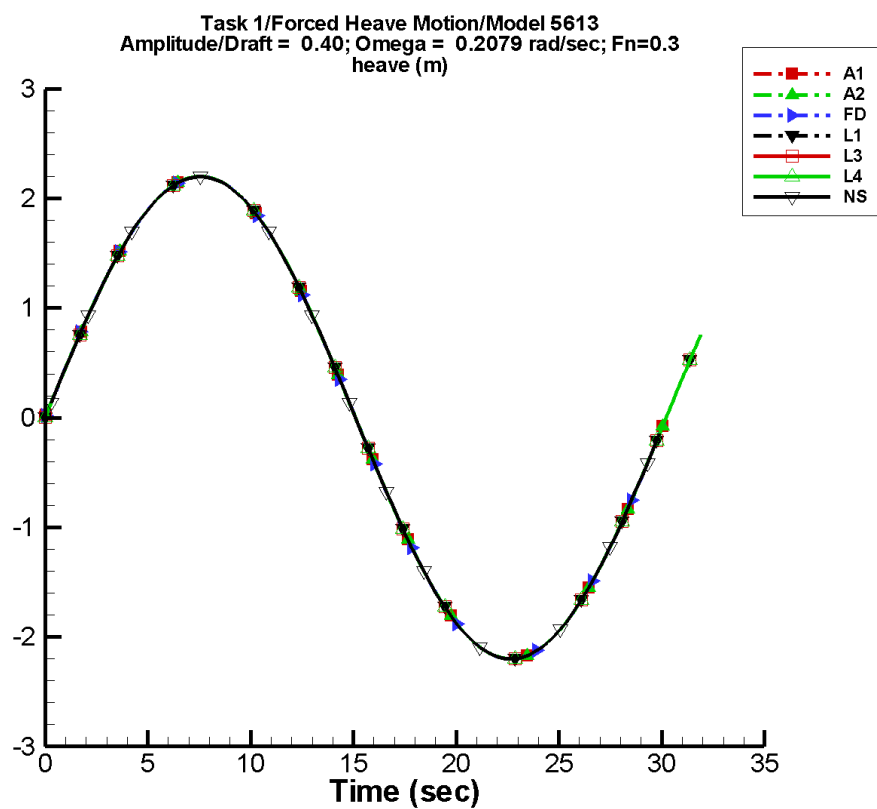
Table A–35. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-7.22E-07	1.10	0	1.13E-06	-22
A2	-7.22E-07	1.10	0	1.13E-06	-22
FD	-1.75E-07	1.10	0	7.44E-08	161
L1	-7.49E-07	1.10	0	9.97E-08	-24
L3	-7.49E-07	1.10	0	9.97E-08	-24
L4	-7.49E-07	1.10	0	9.97E-08	-24
NF	—	—	—	—	—
NS	1.29E-07	1.10	0	6.56E-08	15

Table A–36. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.10	1.10
A2	-1.10	1.10	-1.10	1.10
FD	-1.10	1.10	-1.10	1.10
L1	-1.10	1.10	-1.10	1.10
L3	-1.10	1.10	-1.10	1.10
L4	-1.10	1.10	-1.10	1.10
NF	—	—	—	—
NS	-1.10	1.10	-1.09	1.09

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

Figure A–19. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

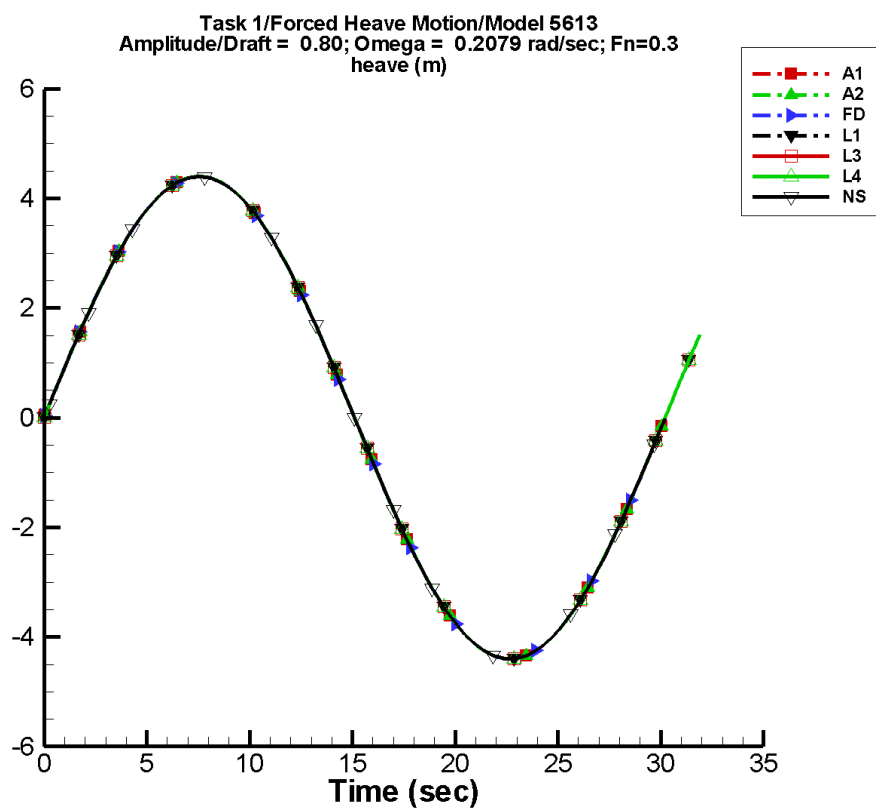
Table A–37. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.62E-06	2.20	0	2.11E-06	-18
A2	-1.62E-06	2.20	0	2.11E-06	-18
FD	-3.96E-07	2.20	0	1.10E-07	-175
L1	-1.22E-06	2.20	0	4.00E-07	-18
L3	-1.22E-06	2.20	0	4.00E-07	-18
L4	-1.22E-06	2.20	0	4.00E-07	-18
NF	—	—	—	—	—
NS	2.39E-07	2.20	0	1.73E-07	-5

Table A–38. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.20	2.20
A2	-2.20	2.20	-2.20	2.20
FD	-2.20	2.20	-2.20	2.20
L1	-2.20	2.20	-2.20	2.20
L3	-2.20	2.20	-2.20	2.20
L4	-2.20	2.20	-2.20	2.20
NF	—	—	—	—
NS	-2.20	2.20	-2.18	2.18

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–20. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

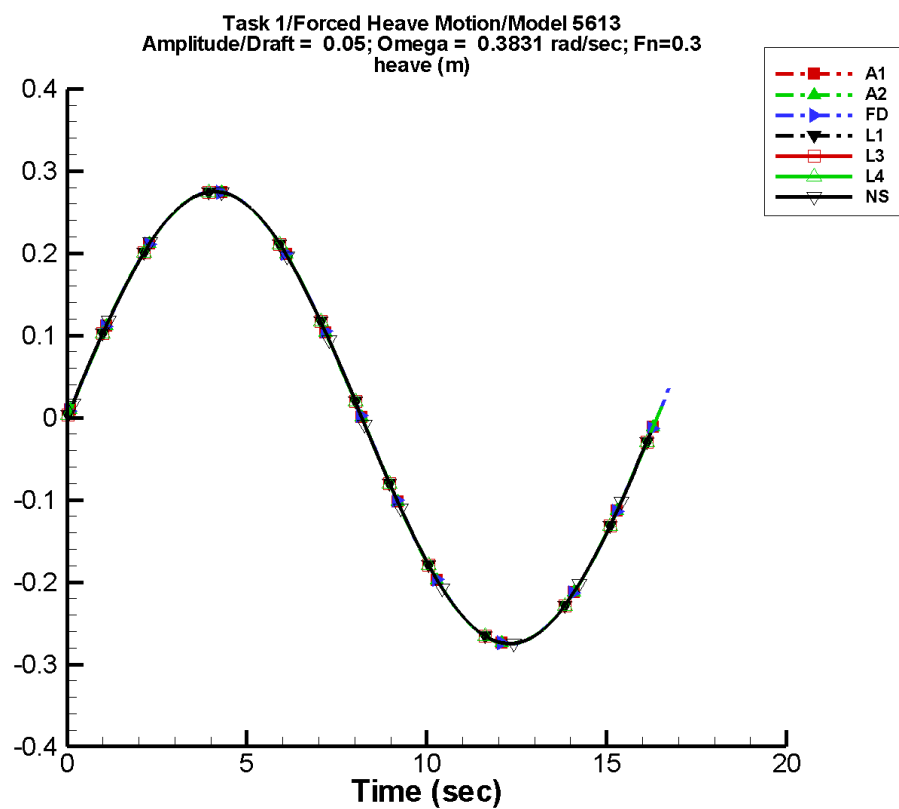
Table A–39. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-3.05E-06	4.40	0	4.24E-06	-22
A2	-3.05E-06	4.40	0	4.24E-06	-22
FD	-9.35E-07	4.40	0	3.70E-07	-167
L1	-2.70E-06	4.40	0	2.15E-07	-118
L3	-2.70E-06	4.40	0	2.15E-07	-118
L4	-2.70E-06	4.40	0	2.15E-07	-118
NF	—	—	—	—	—
NS	2.05E-07	4.40	0	9.46E-07	-17

Table A–40. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.40	4.40
A2	-4.40	4.40	-4.40	4.40
FD	-4.40	4.40	-4.40	4.40
L1	-4.40	4.40	-4.40	4.40
L3	-4.40	4.40	-4.40	4.40
L4	-4.40	4.40	-4.40	4.40
NF	—	—	—	—
NS	-4.40	4.40	-4.36	4.36

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

Figure A-21. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

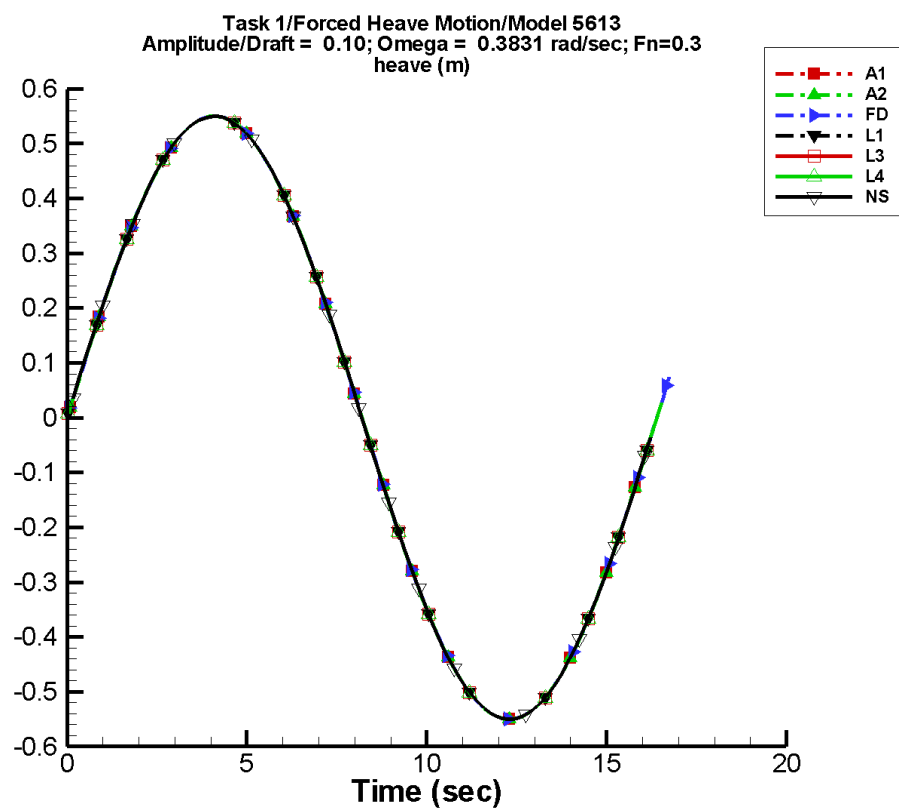
Table A–41. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	1.38E-08	0.275	0	2.74E-08	-106
A2	1.38E-08	0.275	0	2.74E-08	-106
FD	-1.63E-08	0.275	0	1.69E-08	-60
L1	-3.95E-07	0.275	0	4.19E-08	109
L3	-3.95E-07	0.275	0	4.19E-08	109
L4	-3.95E-07	0.275	0	4.19E-08	109
NF	—	—	—	—	—
NS	5.12E-09	0.275	0	1.63E-08	178

Table A–42. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.274	0.276
A2	-0.275	0.275	-0.274	0.276
FD	-0.275	0.275	-0.274	0.274
L1	-0.275	0.275	-0.275	0.275
L3	-0.275	0.275	-0.275	0.275
L4	-0.275	0.275	-0.275	0.275
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

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

Figure A–22. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	7.26E-09	0.550	0	6.02E-08	-115
A2	7.26E-09	0.550	0	6.02E-08	-115
FD	-4.38E-08	0.550	0	1.09E-08	-69
L1	-6.99E-07	0.550	0	1.49E-07	122
L3	-6.99E-07	0.550	0	1.49E-07	122
L4	-6.99E-07	0.550	0	1.49E-07	122
NF	—	—	—	—	—
NS	1.96E-08	0.550	0	4.22E-08	165

Table A–44. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.548	0.552
A2	-0.550	0.550	-0.548	0.552
FD	-0.550	0.550	-0.548	0.548
L1	-0.550	0.550	-0.549	0.549
L3	-0.550	0.550	-0.549	0.549
L4	-0.550	0.550	-0.549	0.549
NF	—	—	—	—
NS	-0.550	0.550	-0.544	0.544

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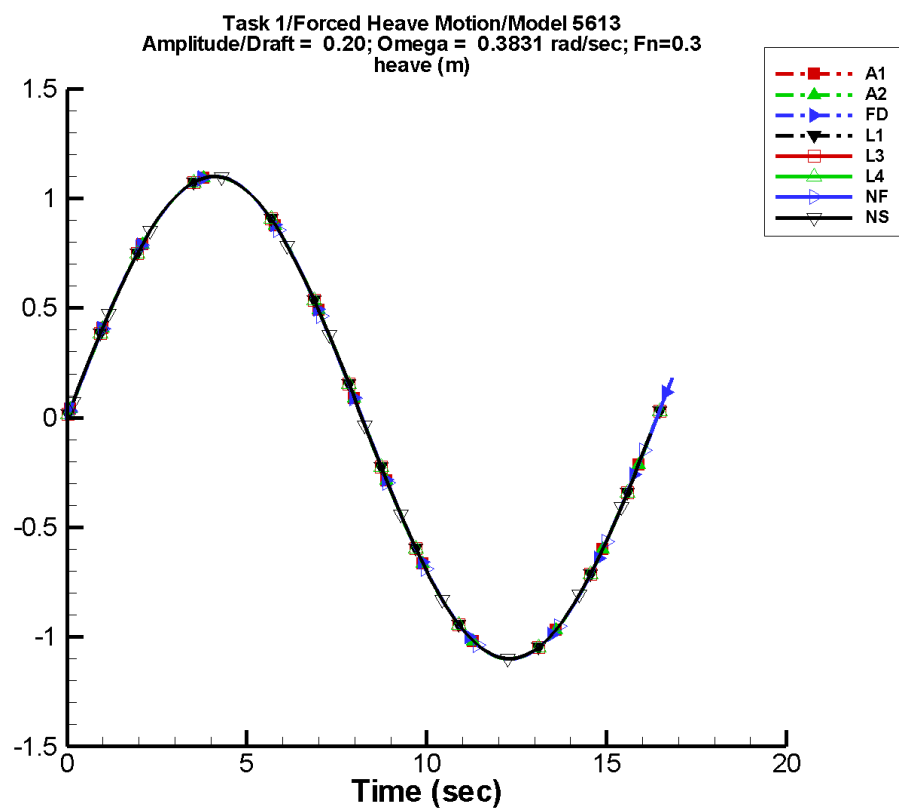


Figure A-23. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	2.27E-08	1.10	0	8.86E-08	-117
A2	2.27E-08	1.10	0	8.86E-08	-117
FD	-1.05E-07	1.10	0	1.32E-07	-71
L1	-1.33E-06	1.10	0	1.38E-07	125
L3	-1.33E-06	1.10	0	1.38E-07	125
L4	-1.33E-06	1.10	0	1.38E-07	125
NF	4.13E-03	1.07	41	5.57E-02	-108
NS	4.58E-08	1.10	0	9.25E-08	144

Table A–46. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.10	1.10
A2	-1.10	1.10	-1.10	1.10
FD	-1.10	1.10	-1.10	1.10
L1	-1.10	1.10	-1.10	1.10
L3	-1.10	1.10	-1.10	1.10
L4	-1.10	1.10	-1.10	1.10
NF	-1.10	1.10	-1.09	1.09
NS	-1.10	1.10	-1.09	1.09

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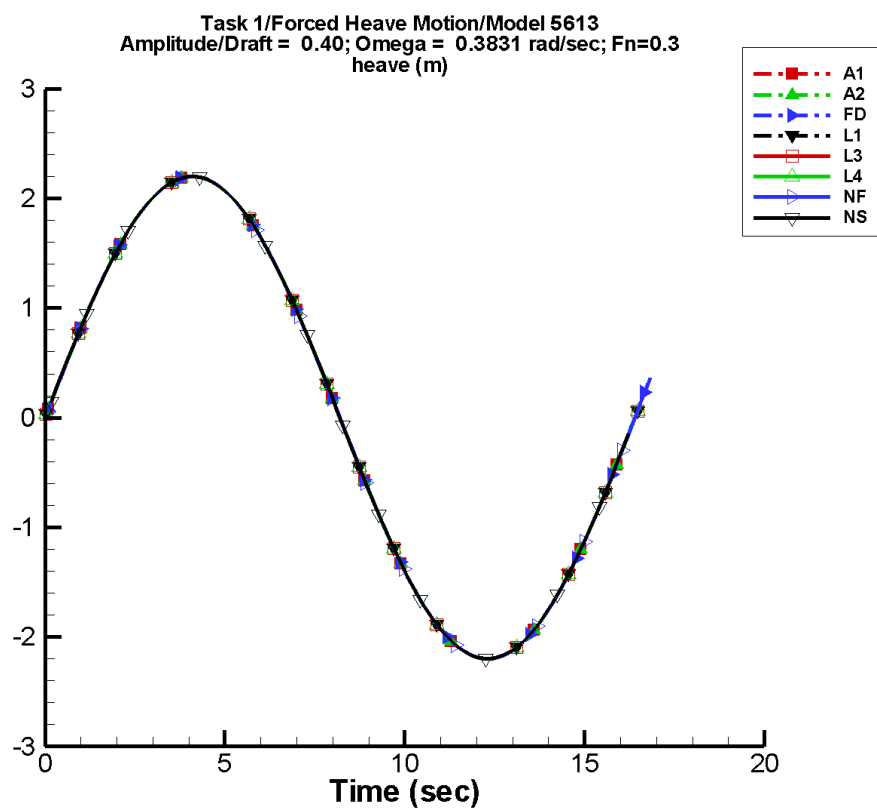


Figure A-24. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	3.01E-08	2.20	0	2.28E-07	-151
A2	3.01E-08	2.20	0	2.28E-07	-151
FD	-1.66E-07	2.20	0	1.32E-07	-56
L1	-2.90E-06	2.20	0	4.05E-07	135
L3	-2.90E-06	2.20	0	4.05E-07	135
L4	-2.90E-06	2.20	0	4.05E-07	135
NF	8.27E-03	2.14	41	0.112	-108
NS	-3.34E-08	2.20	0	2.19E-07	162

Table A–48. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.19	2.21
A2	-2.20	2.20	-2.19	2.21
FD	-2.20	2.20	-2.19	2.19
L1	-2.20	2.20	-2.20	2.20
L3	-2.20	2.20	-2.20	2.20
L4	-2.20	2.20	-2.20	2.20
NF	-2.20	2.20	-2.19	2.19
NS	-2.20	2.20	-2.18	2.18

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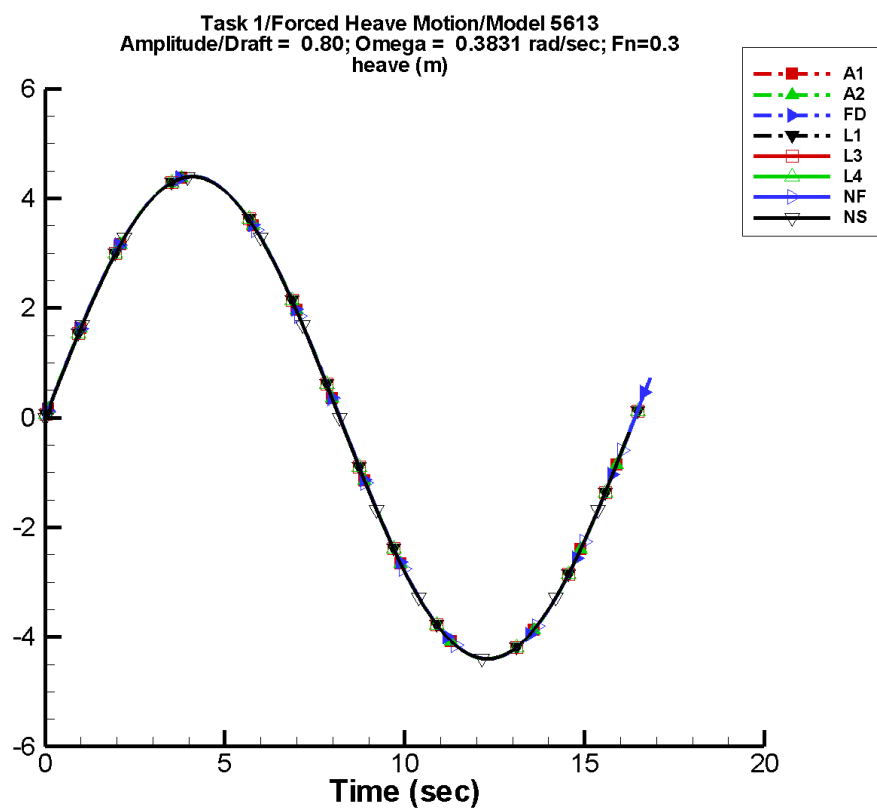


Figure A-25. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

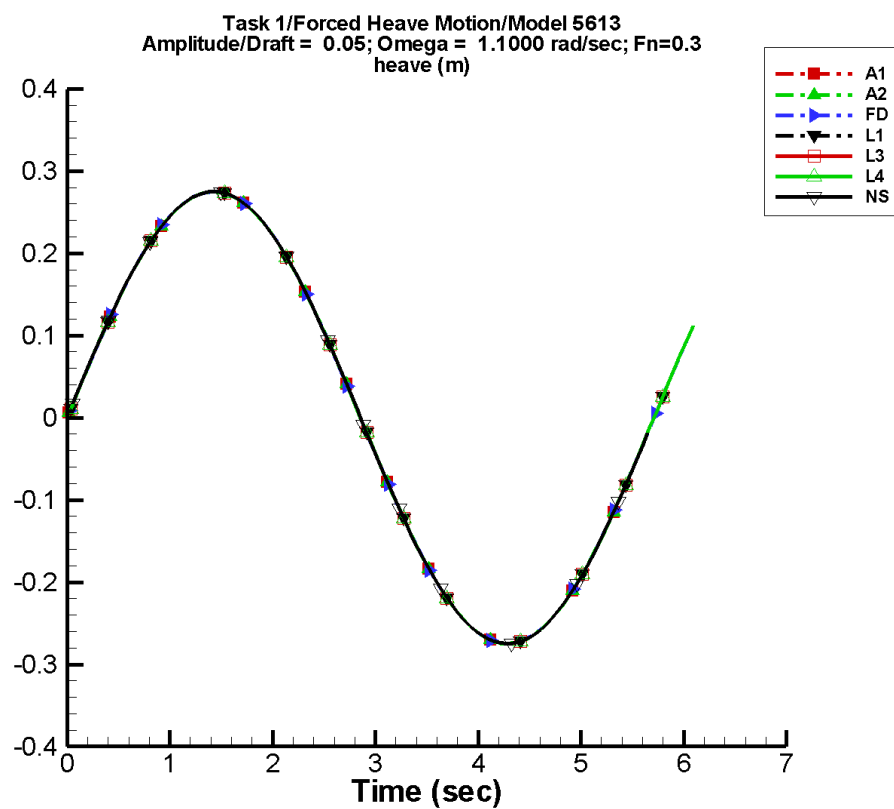
Table A–49. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	5.34E-08	4.40	0	3.54E-07	-117
A2	5.34E-08	4.40	0	3.54E-07	-117
FD	-2.70E-07	4.40	0	3.69E-07	-83
L1	-6.32E-06	4.40	0	1.08E-06	119
L3	-6.32E-06	4.40	0	1.08E-06	119
L4	-6.32E-06	4.40	0	1.08E-06	119
NF	1.65E-02	4.28	41	0.223	-108
NS	4.96E-07	4.40	0	3.17E-07	81

Table A–50. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.38	4.41
A2	-4.40	4.40	-4.38	4.41
FD	-4.40	4.40	-4.38	4.38
L1	-4.40	4.40	-4.39	4.39
L3	-4.40	4.40	-4.39	4.39
L4	-4.40	4.40	-4.39	4.39
NF	-4.40	4.40	-4.37	4.37
NS	-4.40	4.40	-4.36	4.36

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

Figure A-26. Time history of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

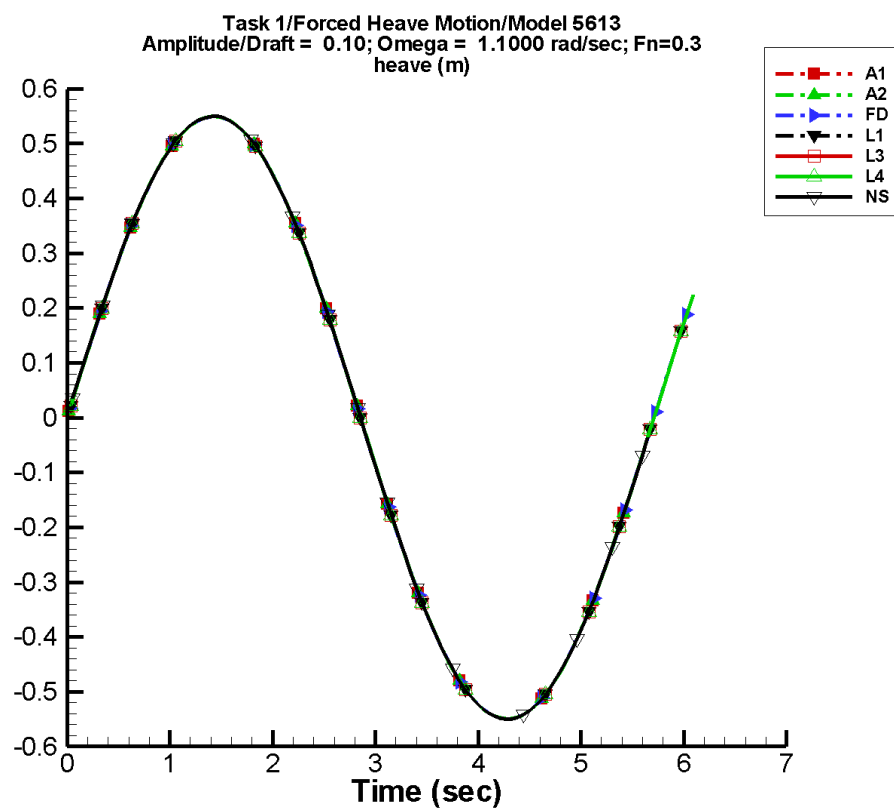
Table A–51. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $Fn = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-2.91E-07	0.275	0	4.31E-07	-11
A2	-2.91E-07	0.275	0	4.31E-07	-11
FD	-5.43E-08	0.275	0	6.38E-08	11
L1	-5.88E-07	0.275	0	5.41E-08	164
L3	-5.88E-07	0.275	0	5.41E-08	164
L4	-5.88E-07	0.275	0	5.41E-08	164
NF	—	—	—	—	—
NS	-1.04E-08	0.275	0	2.61E-08	-66

Table A–52. Minimum and maximum of z_e for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $Fn = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.275	0.275	-0.266	0.268
A2	-0.275	0.275	-0.266	0.268
FD	-0.275	0.275	-0.266	0.266
L1	-0.275	0.275	-0.272	0.272
L3	-0.275	0.275	-0.272	0.272
L4	-0.275	0.275	-0.272	0.272
NF	—	—	—	—
NS	-0.275	0.275	-0.272	0.272

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

Figure A-27. Time history of z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-5.71E-07	0.550	0	8.82E-07	-13
A2	-5.71E-07	0.550	0	8.82E-07	-13
FD	-1.21E-07	0.550	0	1.27E-07	19
L1	-1.20E-06	0.550	0	7.66E-08	-154
L3	-1.20E-06	0.550	0	7.66E-08	-154
L4	-1.20E-06	0.550	0	7.66E-08	-154
NF	—	—	—	—	—
NS	-1.84E-08	0.550	0	4.50E-08	-79

Table A–54. Minimum and maximum of z_e for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.550	0.550	-0.533	0.537
A2	-0.550	0.550	-0.533	0.537
FD	-0.549	0.550	-0.533	0.533
L1	-0.550	0.550	-0.544	0.544
L3	-0.550	0.550	-0.544	0.544
L4	-0.550	0.550	-0.544	0.544
NF	—	—	—	—
NS	-0.550	0.550	-0.544	0.544

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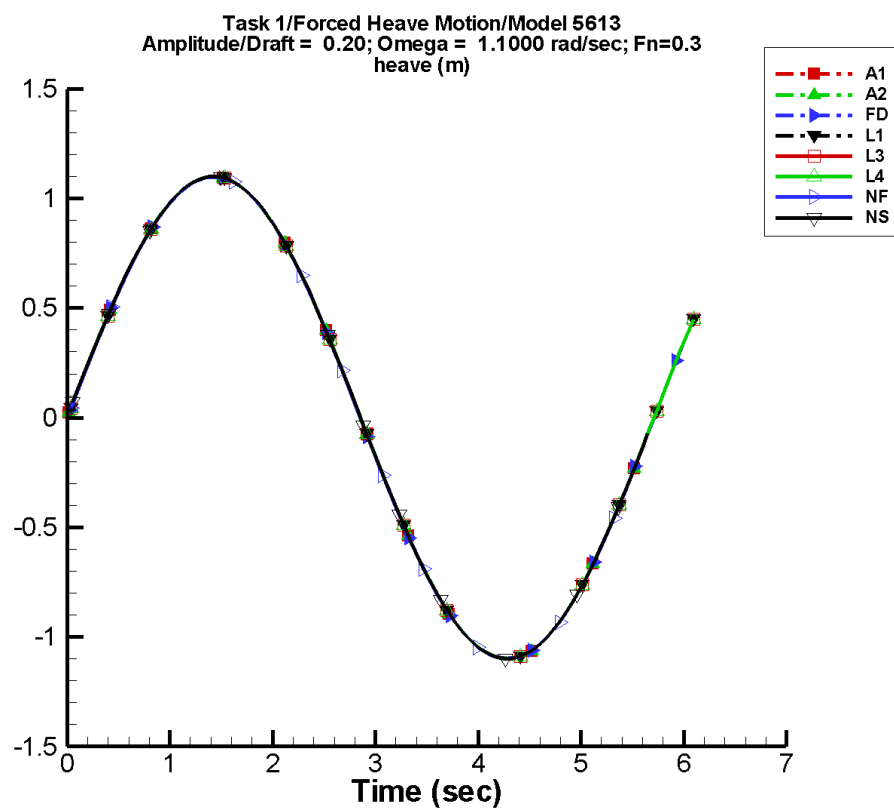


Figure A-28. Time history of z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-1.21E-06	1.10	0	1.79E-06	-10
A2	-1.21E-06	1.10	0	1.79E-06	-10
FD	-2.64E-07	1.10	0	3.05E-07	14
L1	-2.35E-06	1.10	0	9.72E-08	-149
L3	-2.35E-06	1.10	0	9.72E-08	-149
L4	-2.35E-06	1.10	0	9.72E-08	-149
NF	9.55E-03	1.10	-24	1.65E-02	3
NS	-4.64E-08	1.10	0	7.87E-08	-84

Table A–56. Minimum and maximum of z_e for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.10	1.10	-1.07	1.07
A2	-1.10	1.10	-1.07	1.07
FD	-1.10	1.10	-1.07	1.07
L1	-1.10	1.10	-1.09	1.09
L3	-1.10	1.10	-1.09	1.09
L4	-1.10	1.10	-1.09	1.09
NF	-1.10	1.10	-1.04	1.04
NS	-1.10	1.10	-1.09	1.09

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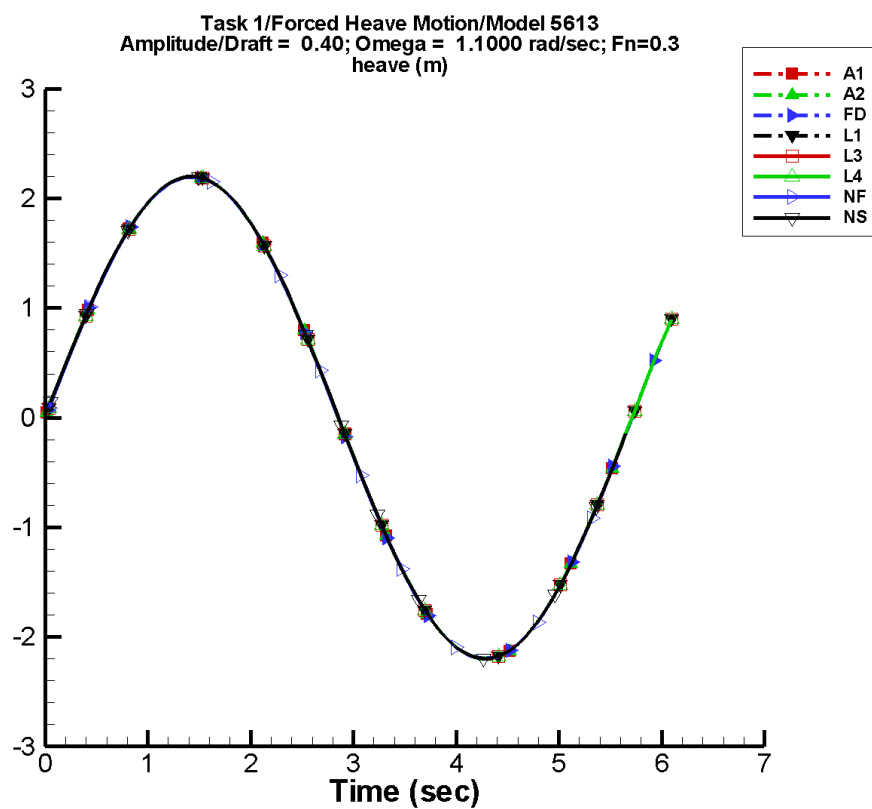


Figure A-29. Time history of z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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 z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-2.33E-06	2.20	0	3.45E-06	-11
A2	-2.33E-06	2.20	0	3.45E-06	-11
FD	-4.83E-07	2.20	0	4.96E-07	12
L1	-4.81E-06	2.20	0	1.28E-07	-88
L3	-4.81E-06	2.20	0	1.28E-07	-88
L4	-4.81E-06	2.20	0	1.28E-07	-88
NF	1.91E-02	2.20	-24	3.30E-02	3
NS	-3.47E-08	2.20	0	2.07E-07	-98

Table A–58. Minimum and maximum of z_e for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.20	2.20	-2.13	2.15
A2	-2.20	2.20	-2.13	2.15
FD	-2.20	2.20	-2.13	2.13
L1	-2.20	2.20	-2.17	2.17
L3	-2.20	2.20	-2.17	2.17
L4	-2.20	2.20	-2.17	2.17
NF	-2.20	2.20	-2.08	2.08
NS	-2.20	2.20	-2.18	2.18

TASK 1/HEAVE MOTION/MODEL 5613

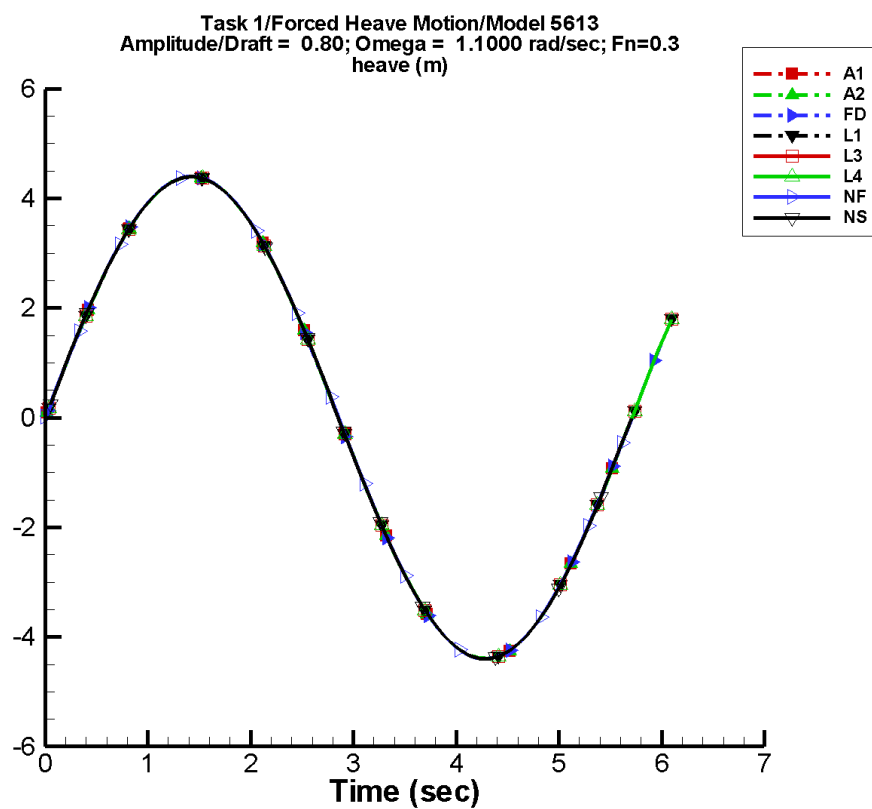


Figure A-30. Time history of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

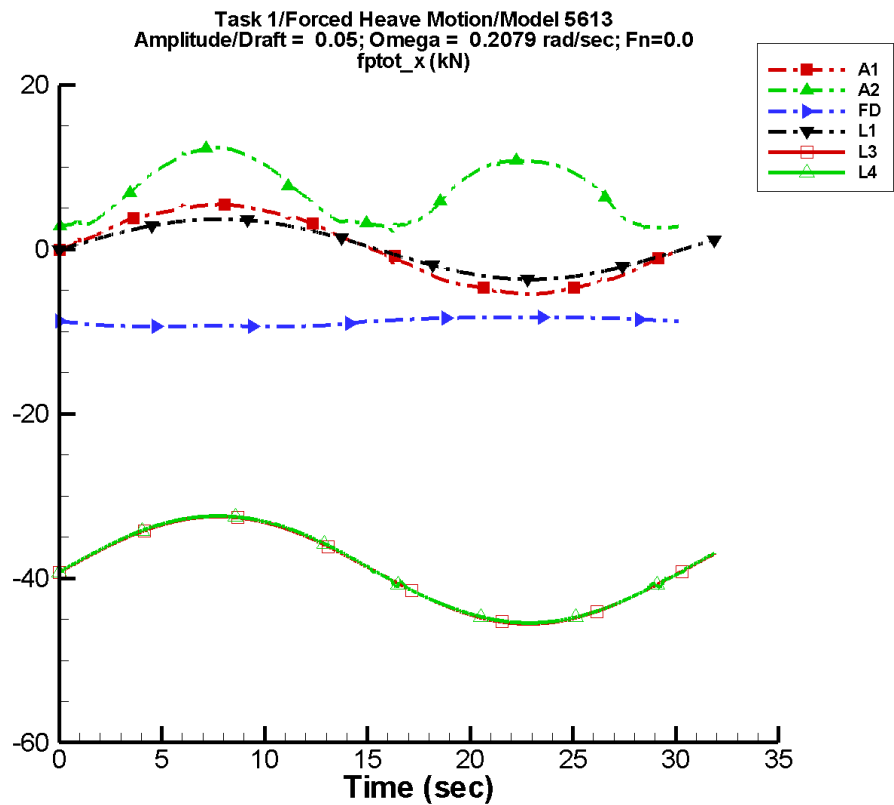
Table A-59. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (m)	a_1 (m)	Φ_1 (deg)	a_2 (m)	Φ_2 (deg)
A1	-4.73E-06	4.40	0	7.02E-06	-11
A2	-4.73E-06	4.40	0	7.02E-06	-11
FD	-9.56E-07	4.40	0	9.86E-07	14
L1	-9.72E-06	4.40	0	1.22E-06	179
L3	-9.72E-06	4.40	0	1.22E-06	179
L4	-9.72E-06	4.40	0	1.22E-06	179
NF	1.91E-02	4.40	-15	3.01E-02	6
NS	-4.82E-07	4.40	0	1.77E-07	98

Table A-60. Minimum and maximum of z_e for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-4.40	4.40	-4.26	4.29
A2	-4.40	4.40	-4.26	4.29
FD	-4.39	4.40	-4.26	4.26
L1	-4.40	4.40	-4.35	4.35
L3	-4.40	4.40	-4.35	4.35
L4	-4.40	4.40	-4.35	4.35
NF	-4.40	4.40	-4.38	4.34
NS	-4.40	4.40	-4.36	4.36

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–31. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

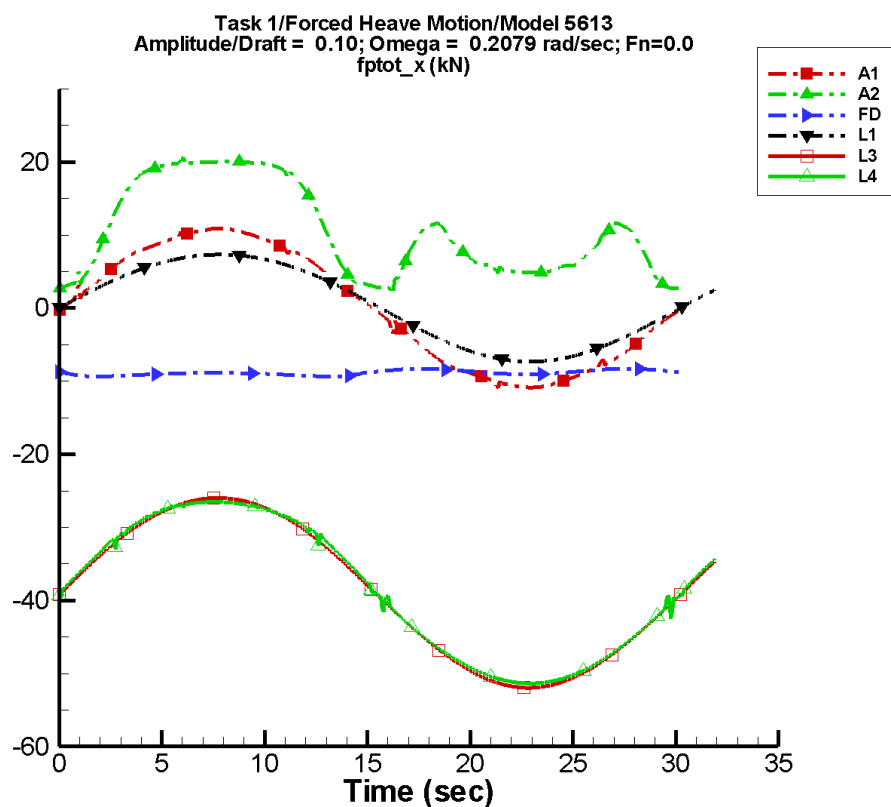
Table A–61. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.04E-03	5.37	-1	4.15E-03	158
A2	7.09	0.724	-7	4.61	-90
FD	-8.84	0.615	-179	2.30E-02	-71
L1	4.87E-02	3.66	-3	4.88E-02	87
L3	-39.0	6.52	-2	1.40E-02	-87
L4	-39.0	6.53	-2	3.28E-02	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–62. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.43	5.45	-5.42	5.43
A2	2.09	12.4	2.64	12.4
FD	-9.37	-8.29	-9.37	-8.29
L1	-3.66	3.66	-3.66	3.66
L3	-45.6	-32.5	-45.6	-32.5
L4	-45.4	-32.4	-45.4	-32.4
NF	—	—	—	—
NS	—	—	—	—

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

Figure A–32. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

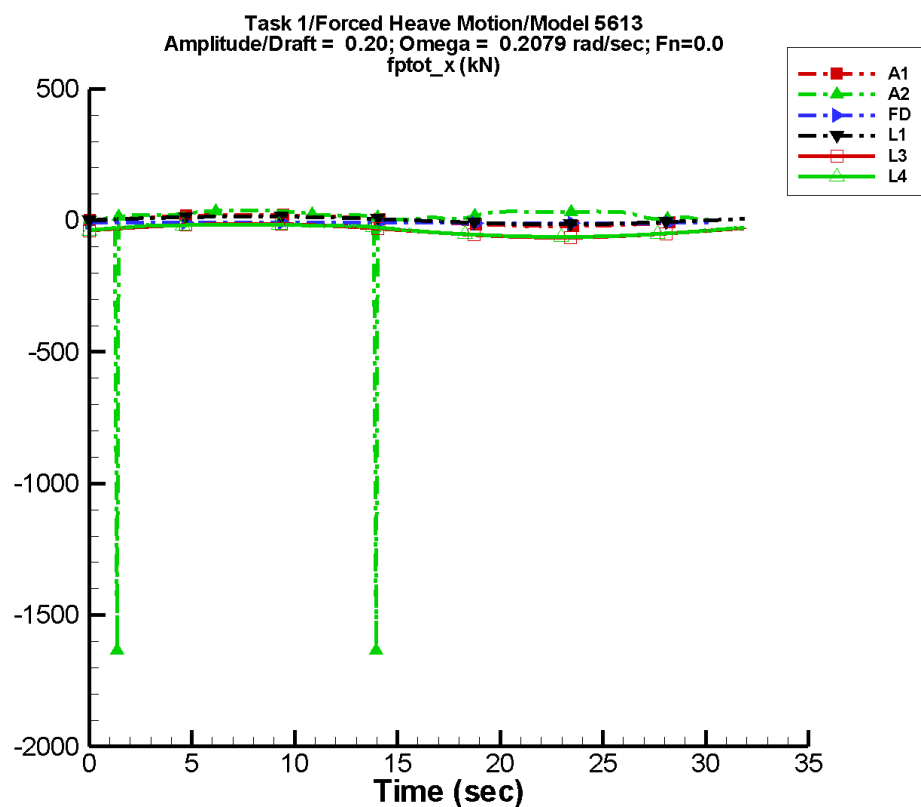
Table A–63. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.07E-03	10.7	-1	8.31E-03	158
A2	10.5	6.74	-3	4.43	-90
FD	-8.87	0.232	-167	4.14E-02	-13
L1	0.195	7.33	-3	0.195	87
L3	-38.8	13.0	-2	0.123	86
L4	-38.6	12.8	-2	0.307	75
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–64. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-10.9	10.9	-10.8	10.9
A2	1.90	20.6	2.71	20.1
FD	-9.37	-8.28	-9.36	-8.29
L1	-7.33	7.33	-7.33	7.33
L3	-52.0	-26.0	-52.0	-26.0
L4	-51.3	-26.5	-51.3	-26.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–33. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

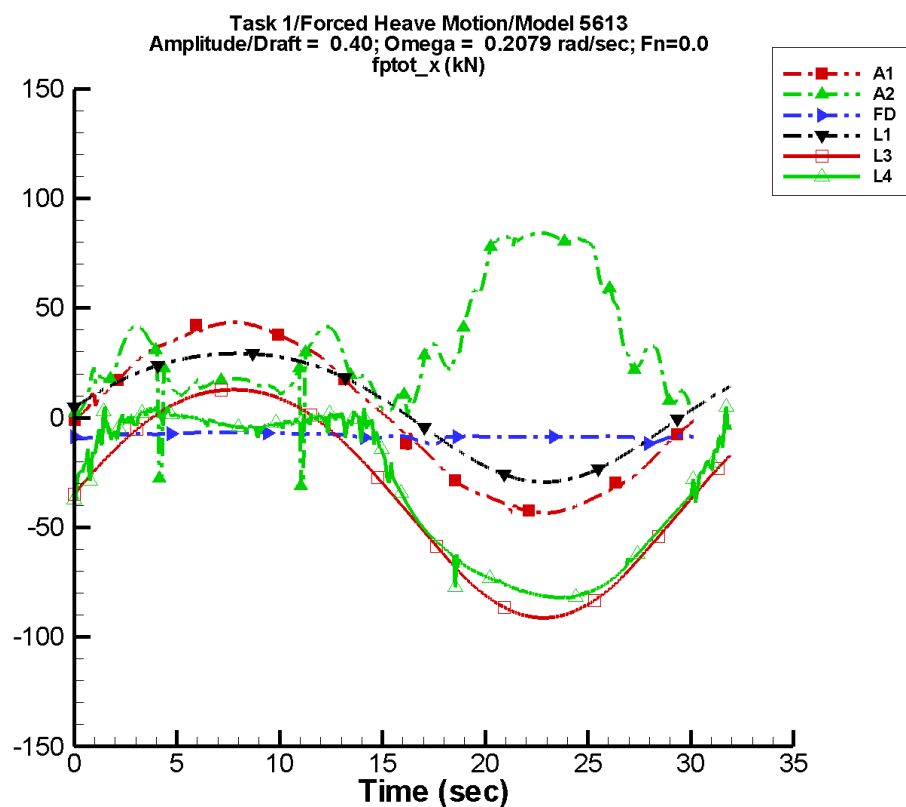
Table A–65. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.14E-03	21.5	-1	1.66E-02	158
A2	12.8	4.75	121	31.0	-88
FD	-9.37	1.91	-3	0.459	83
L1	0.779	14.7	-3	0.780	87
L3	-38.2	26.0	-2	0.695	87
L4	-37.4	24.2	-2	2.35	76
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–66. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-21.7	21.8	-21.7	21.7
A2	-1.63E+03	38.6	-207.	38.7
FD	-12.0	-7.55	-11.9	-7.55
L1	-14.7	14.7	-14.6	14.7
L3	-64.9	-12.8	-64.9	-12.9
L4	-62.4	-15.6	-62.4	-16.3
NF	—	—	—	—
NS	—	—	—	—

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

Figure A–34. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

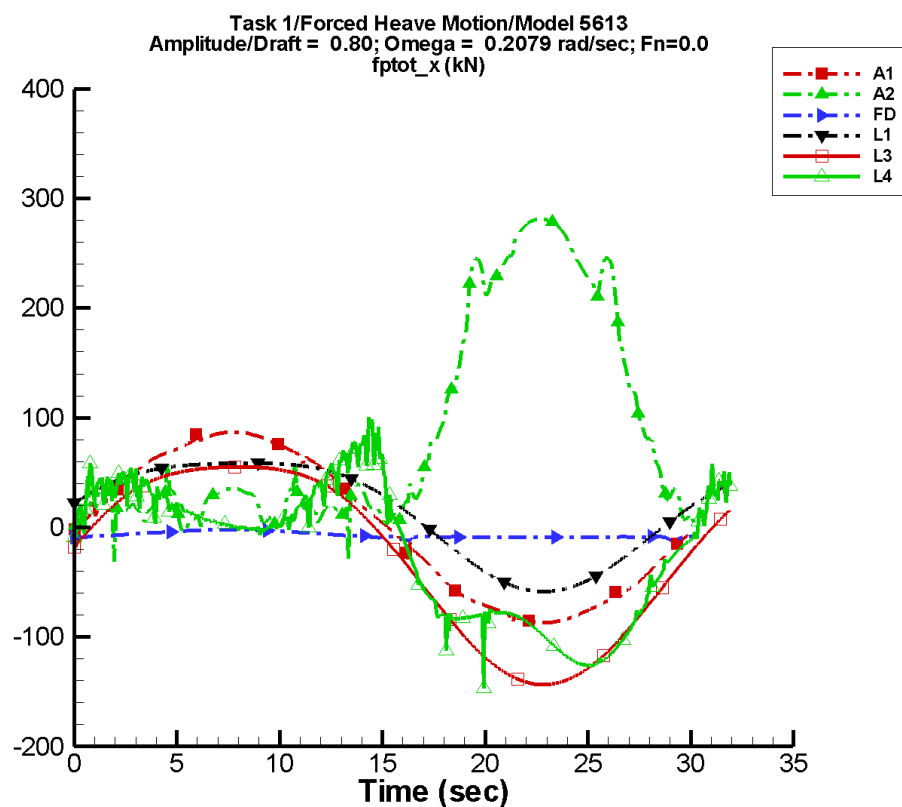
Table A–67. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.28E-03	43.0	-1	3.32E-02	158
A2	33.6	26.3	176	17.0	-87
FD	-8.36	1.15	1	0.768	-92
L1	3.12	29.3	-3	3.12	87
L3	-36.0	52.3	-2	3.28	87
L4	-33.6	44.1	-3	10.6	77
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–68. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-43.5	43.6	-43.4	43.4
A2	-31.1	84.4	2.54	84.2
FD	-12.0	-6.62	-11.7	-6.63
L1	-29.3	29.3	-29.3	29.3
L3	-91.3	12.8	-91.2	12.8
L4	-82.2	5.45	-82.0	3.54
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–35. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

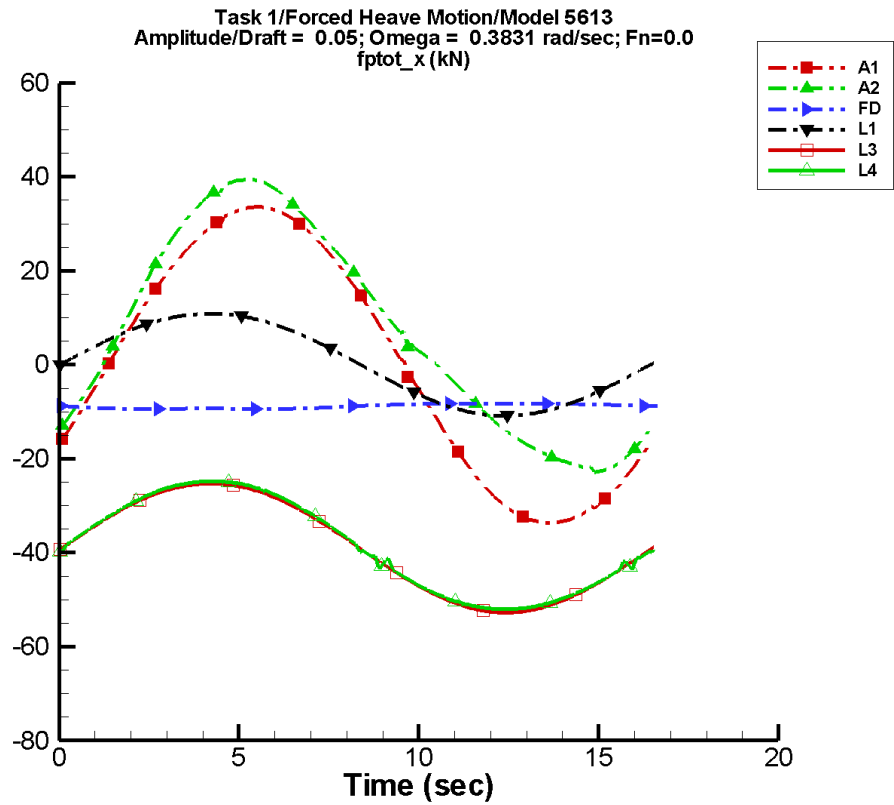
Table A–69. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.66E-02	85.9	-1	6.65E-02	158
A2	90.2	113.	177	67.5	-88
FD	-7.06	3.00	-1	1.77	-89
L1	12.5	58.6	-3	12.5	87
L3	-28.6	101.	-2	15.6	87
L4	-23.4	68.6	-6	39.1	77
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–70. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-86.9	87.3	-86.7	86.8
A2	-30.7	1.05E+03	-8.74	281.
FD	-12.0	-2.14	-10.7	-2.15
L1	-58.6	58.8	-58.6	58.8
L3	-144.	55.1	-143.	55.1
L4	-147.	100.	-126.	82.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-36. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

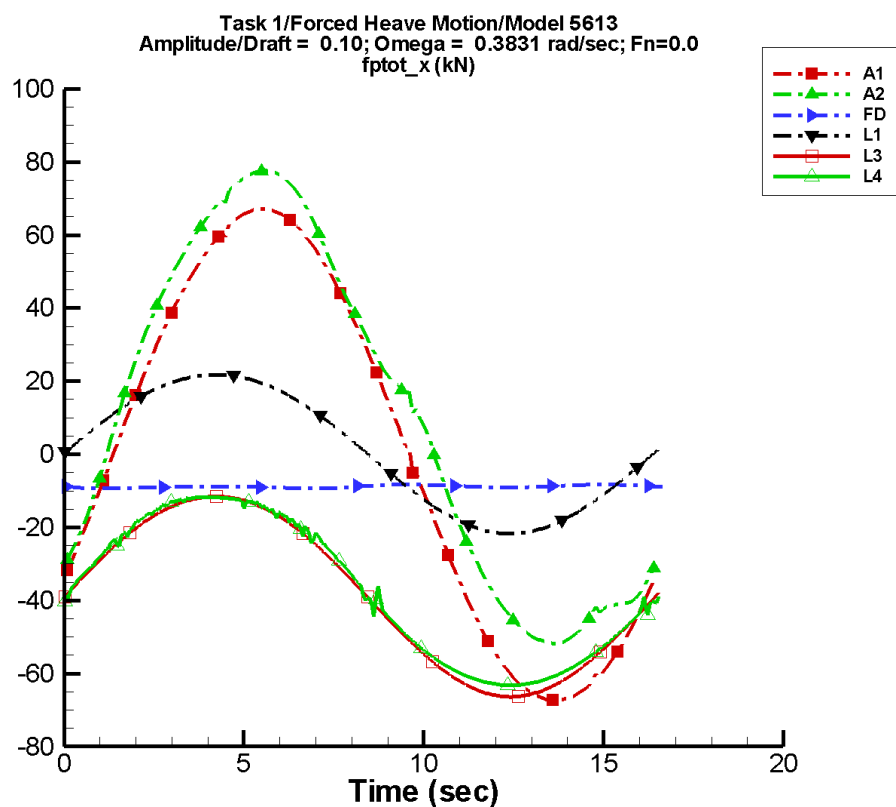
Table A-71. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.68E-02	33.6	-30	0.148	27
A2	7.01	29.6	-34	4.54	-93
FD	-8.84	0.612	-179	1.72E-02	-70
L1	0.148	10.9	-2	0.148	89
L3	-38.9	13.7	-3	8.55E-02	85
L4	-38.6	13.7	-3	0.193	-118
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-72. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-33.6	33.6	-33.5	33.4
A2	-23.0	39.4	-22.3	39.3
FD	-9.37	-8.28	-9.37	-8.29
L1	-10.9	10.9	-10.9	10.9
L3	-52.8	-25.3	-52.7	-25.3
L4	-52.0	-24.8	-52.0	-24.8
NF	—	—	—	—
NS	—	—	—	—

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

Figure A–37. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

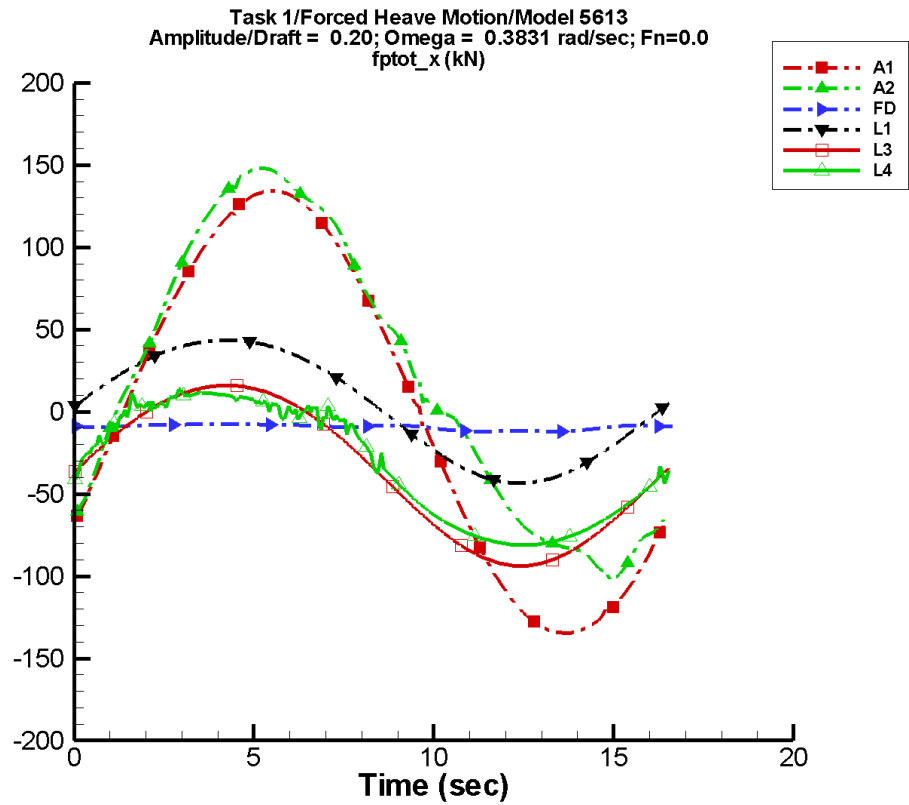
Table A-73. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.174	67.3	-30	0.295	27
A2	10.3	63.8	-32	4.28	-89
FD	-8.87	0.217	-169	3.37E-02	30
L1	0.591	21.7	-2	0.592	89
L3	-38.4	27.4	-3	0.516	86
L4	-37.2	26.5	-3	0.169	88
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-74. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-67.3	67.1	-67.1	66.9
A2	-52.0	77.6	-51.5	77.3
FD	-9.37	-8.28	-9.35	-8.30
L1	-21.8	21.7	-21.7	21.7
L3	-66.4	-11.6	-66.3	-11.6
L4	-63.2	-11.8	-63.2	-11.8
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-38. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

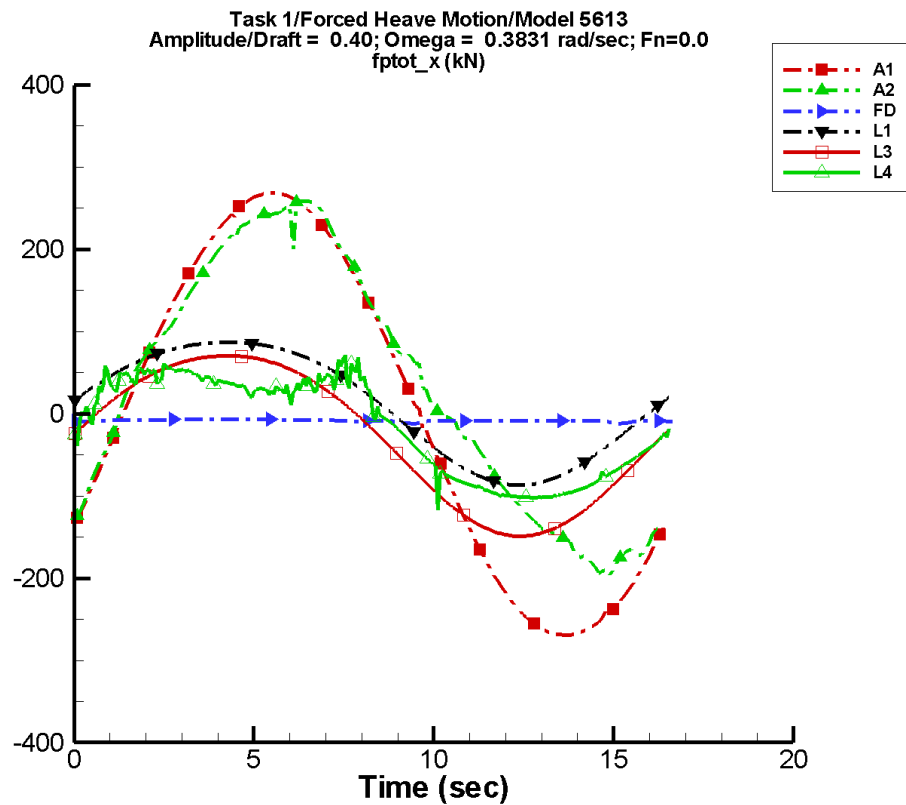
Table A–75. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.347	135.	-30	0.590	27
A2	21.4	118.	-35	14.8	-92
FD	-9.38	1.93	-3	0.480	81
L1	2.37	43.5	-2	2.37	89
L3	-36.6	54.8	-3	2.29	87
L4	-32.4	48.0	-3	3.93	66
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–76. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-135.	134.	-134.	134.
A2	-102.	148.	-98.1	147.
FD	-12.0	-7.55	-11.9	-7.56
L1	-43.5	43.5	-43.4	43.4
L3	-93.8	16.0	-93.7	15.9
L4	-81.1	13.9	-81.1	11.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–39. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

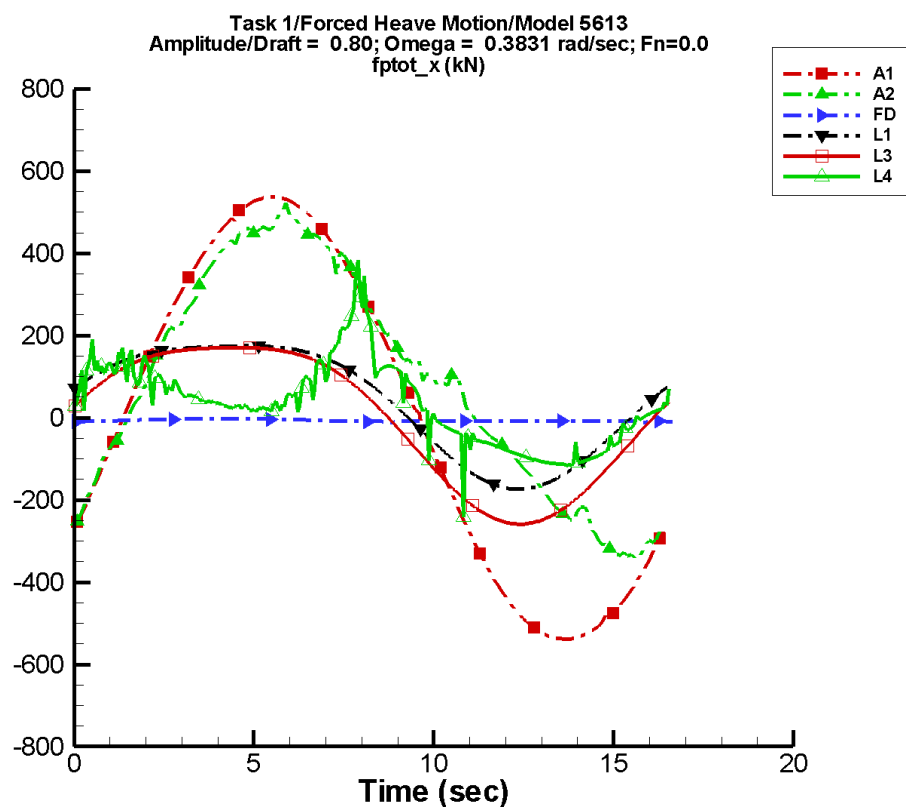
Table A–77. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.695	269.	-30	1.18	27
A2	33.1	210.	-39	16.7	-84
FD	-8.34	1.13	3	0.767	-95
L1	9.47	87.0	-2	9.48	89
L3	-29.6	110.	-3	9.62	87
L4	-15.2	78.0	-6	20.9	68
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–78. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-269.	269.	-268.	268.
A2	-196.	259.	-188.	253.
FD	-12.0	-6.63	-11.0	-6.64
L1	-87.0	87.0	-86.8	86.9
L3	-149.	70.4	-149.	70.3
L4	-117.	70.9	-102.	54.1
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-40. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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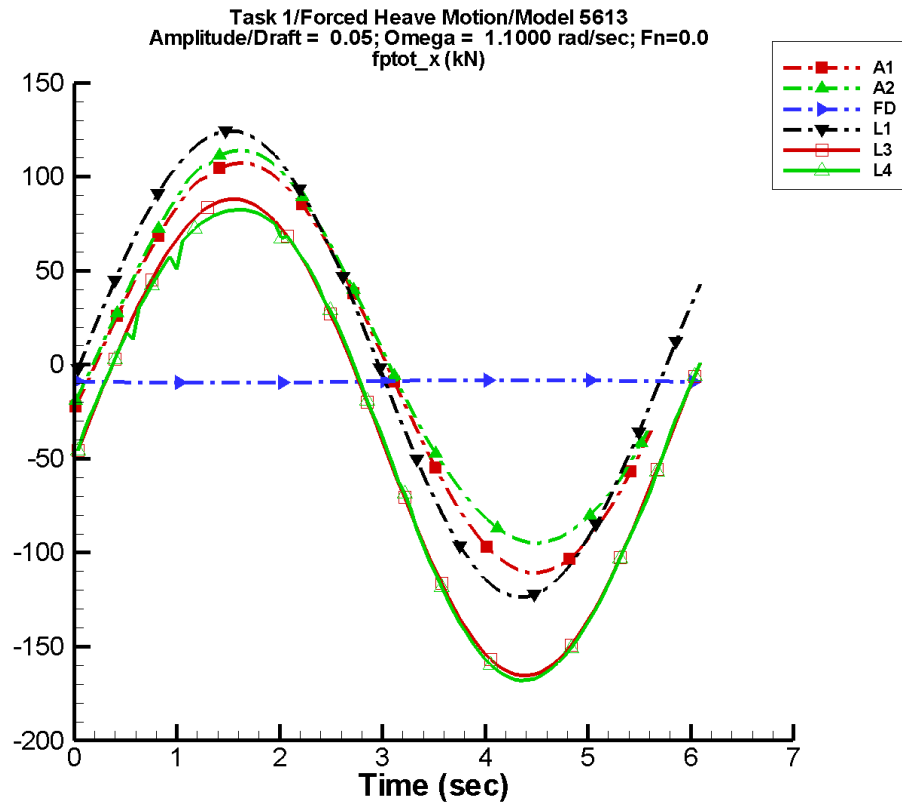
Table A–79. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.39	538.	-30	2.36	27
A2	87.1	370.	-45	64.8	-91
FD	-7.06	3.01	0	1.74	-89
L1	37.9	174.	-2	37.9	89
L3	-3.16	216.	-3	40.8	87
L4	34.5	87.4	-24	88.5	73
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–80. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-538.	537.	-537.	535.
A2	-343.	522.	-334.	488.
FD	-12.0	-2.14	-9.84	-2.17
L1	-174.	175.	-174.	175.
L3	-259.	171.	-258.	171.
L4	-248.	402.	-113.	308.
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-41. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

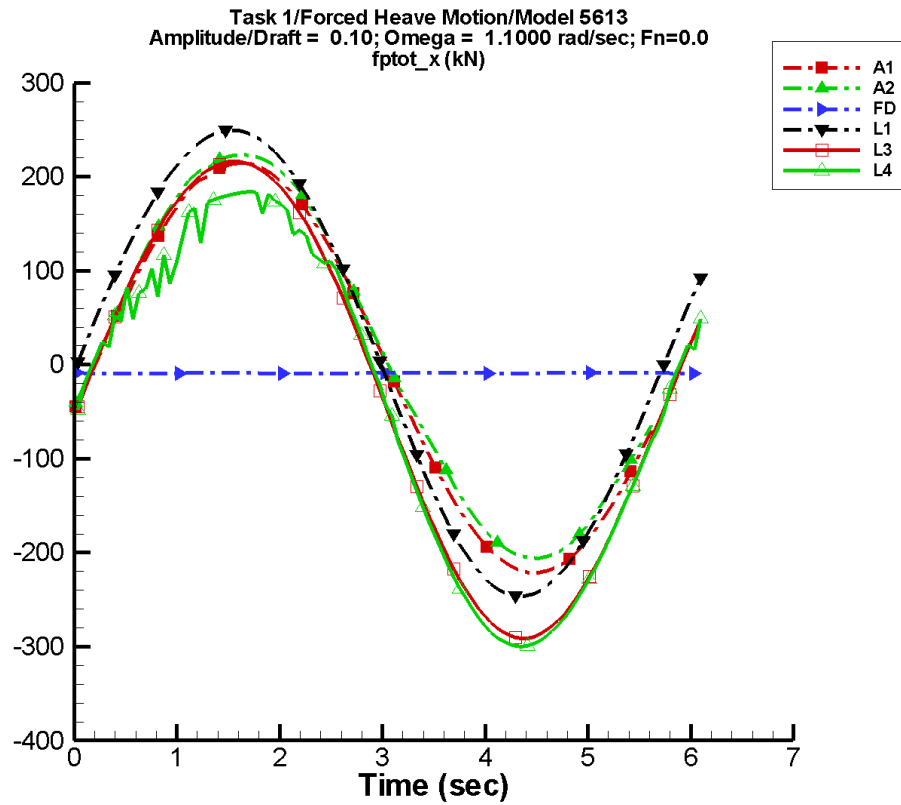
Table A–81. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.14	109.	-12	0.601	37
A2	5.96	105.	-12	4.17	-97
FD	-8.84	0.618	-180	2.89E-02	-86
L1	2.00	124.	-5	1.88	110
L3	-37.1	127.	-7	1.77	105
L4	-38.8	126.	-7	4.93	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–82. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-111.	107.	-107.	104.
A2	-94.8	114.	-91.9	111.
FD	-9.37	-8.29	-9.36	-8.29
L1	-124.	124.	-122.	123.
L3	-165.	88.2	-164.	86.8
L4	-168.	82.4	-166.	81.6
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-42. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

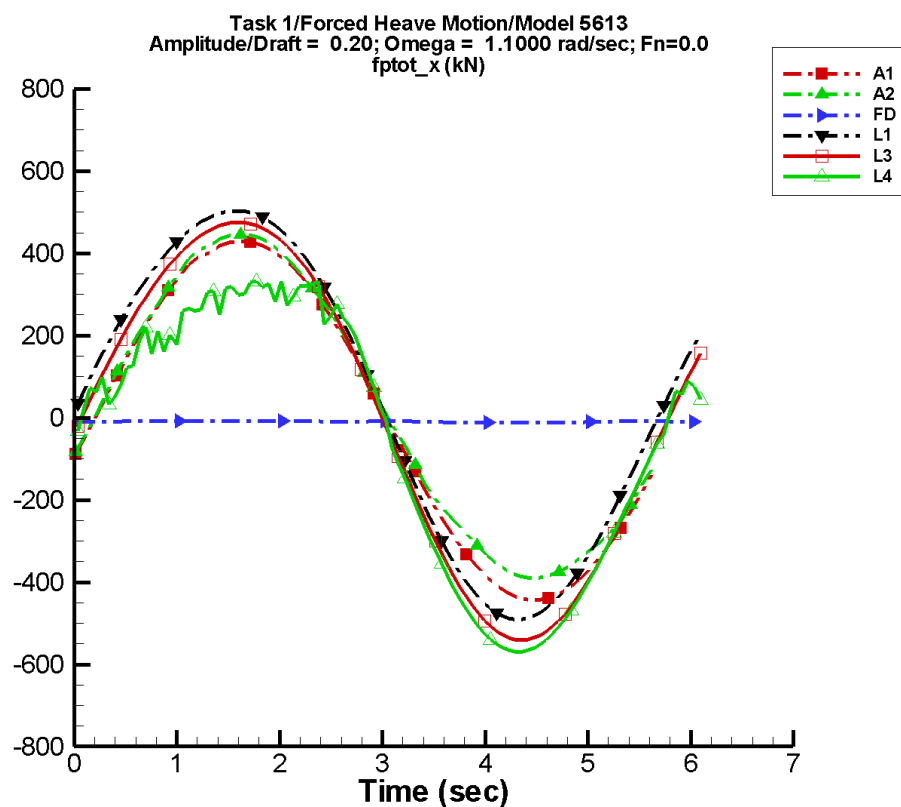
Table A–83. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.28	219.	-12	1.20	37
A2	8.18	215.	-12	3.77	-88
FD	-8.87	0.234	-177	4.88E-02	-83
L1	8.00	248.	-5	7.56	110
L3	-31.0	254.	-7	7.27	104
L4	-44.0	238.	-8	24.4	111
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–84. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-222.	215.	-215.	208.
A2	-206.	224.	-199.	218.
FD	-9.37	-8.29	-9.21	-8.41
L1	-247.	250.	-244.	247.
L3	-291.	216.	-288.	214.
L4	-300.	184.	-297.	181.
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-43. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

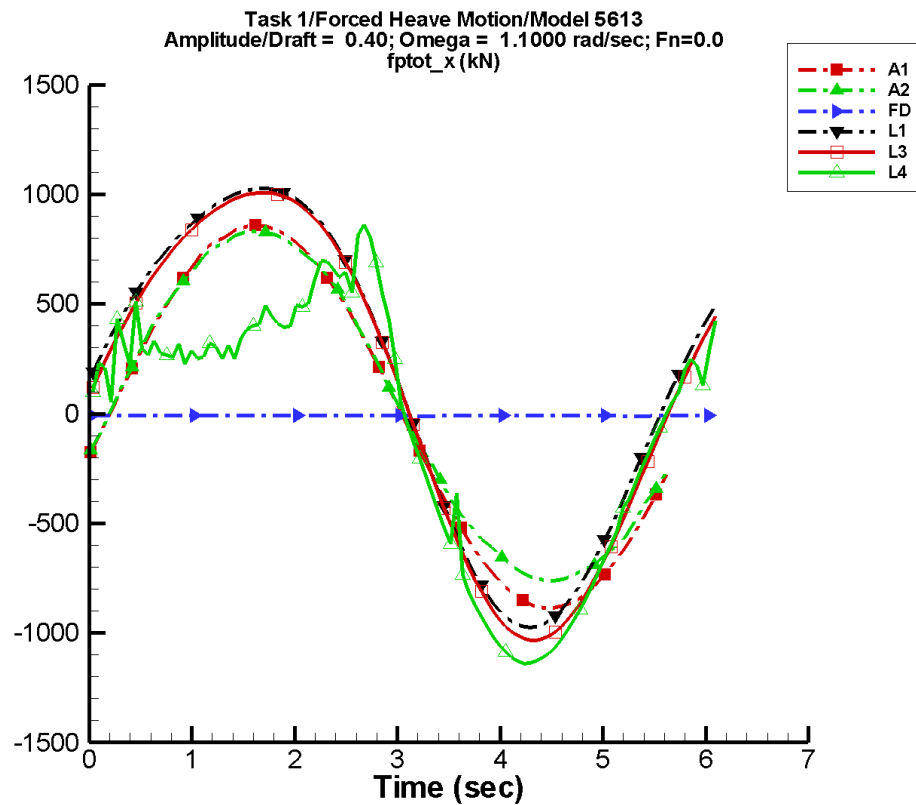
Table A–85. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.56	438.	-12	2.40	37
A2	17.1	418.	-12	13.5	-95
FD	-9.37	1.88	-1	0.368	87
L1	32.0	496.	-5	30.3	110
L3	-6.97	507.	-7	29.3	104
L4	-58.9	442.	-10	92.3	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–86. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-443.	429.	-430.	416.
A2	-390.	446.	-376.	432.
FD	-12.0	-7.55	-11.9	-7.60
L1	-491.	503.	-484.	499.
L3	-541.	475.	-534.	471.
L4	-569.	353.	-562.	313.
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-44. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

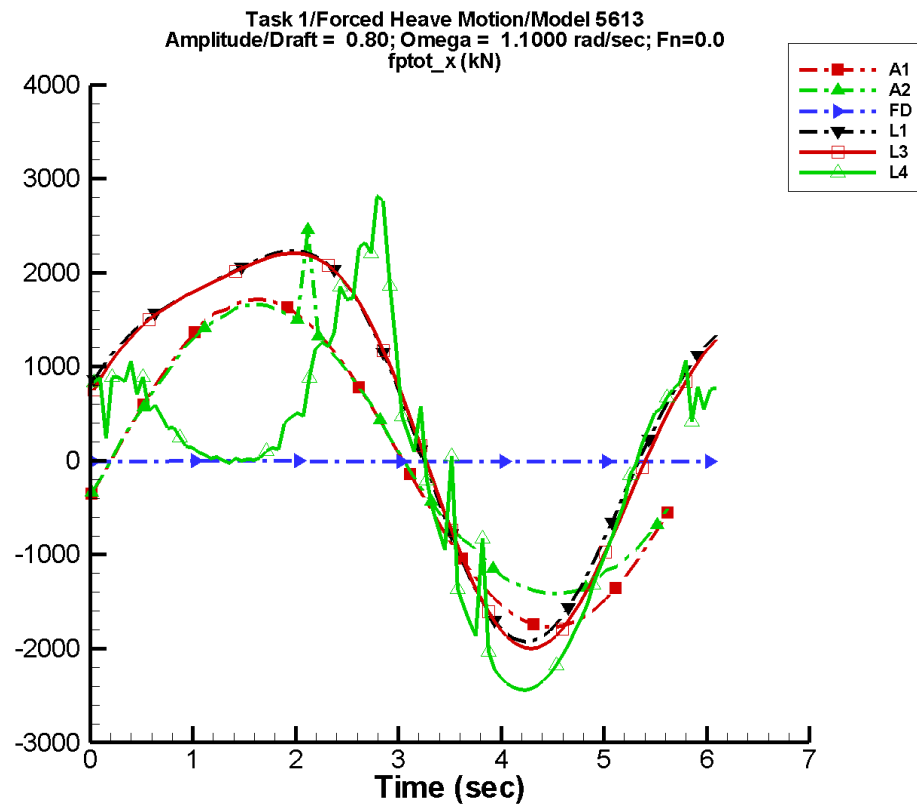
Table A–87. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.13	875.	-12	4.81	37
A2	25.0	808.	-13	14.8	-84
FD	-8.34	1.15	-2	0.699	-88
L1	128.	992.	-5	121.	110
L3	88.9	1.01E+03	-7	118.	104
L4	-78.8	772.	-12	372.	99
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–88. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-886.	859.	-859.	832.
A2	-761.	833.	-737.	806.
FD	-11.8	-6.63	-9.59	-6.76
L1	-974.	1.03E+03	-959.	1.02E+03
L3	-1.03E+03	1.01E+03	-1.02E+03	1.00E+03
L4	-1.14E+03	1.01E+03	-1.12E+03	716.
NF	—	—	—	—
NS	—	—	—	—

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

Figure A–45. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

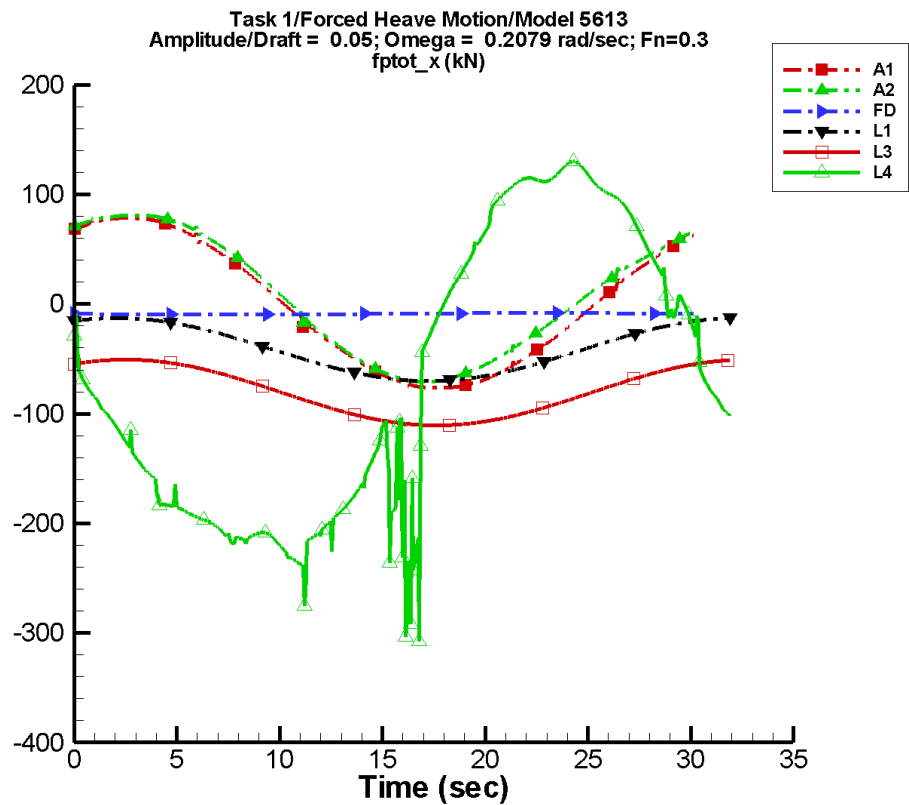
Table A–89. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-18.3	1.75E+03	-12	9.62	37
A2	89.1	1.58E+03	-13	69.0	-123
FD	-7.06	3.01	0	1.79	-90
L1	512.	1.98E+03	-5	486.	110
L3	471.	2.03E+03	-7	474.	104
L4	-64.7	1.27E+03	-17	1.30E+03	95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–90. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03
A2	-1.41E+03	2.45E+03	-1.37E+03	1.66E+03
FD	-11.4	-2.14	-9.74	-2.55
L1	-1.92E+03	2.23E+03	-1.88E+03	2.21E+03
L3	-2.00E+03	2.21E+03	-1.96E+03	2.19E+03
L4	-2.44E+03	3.02E+03	-2.38E+03	2.32E+03
NF	—	—	—	—
NS	—	—	—	—

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

Figure A-46. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

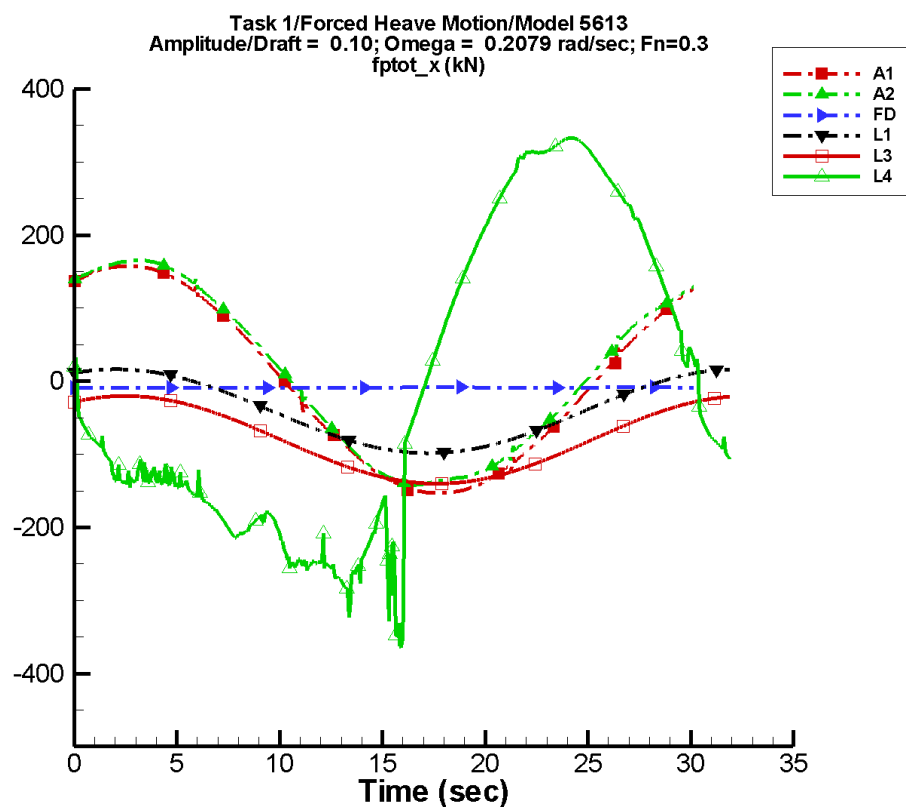
Table A–91. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.208	76.7	58	0.469	-24
A2	6.89	74.5	61	4.81	-87
FD	-8.84	0.615	-179	2.30E-02	-71
L1	-41.5	28.7	65	7.91E-02	96
L3	-80.6	30.0	60	1.88E-02	121
L4	-69.4	178.	162	29.8	-103
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–92. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-76.4	78.6	-76.4	78.5
A2	-71.2	81.1	-70.8	81.1
FD	-9.37	-8.29	-9.37	-8.29
L1	-70.1	-12.7	-70.1	-12.8
L3	-111.	-50.6	-111.	-50.6
L4	-307.	130.	-246.	129.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-47. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

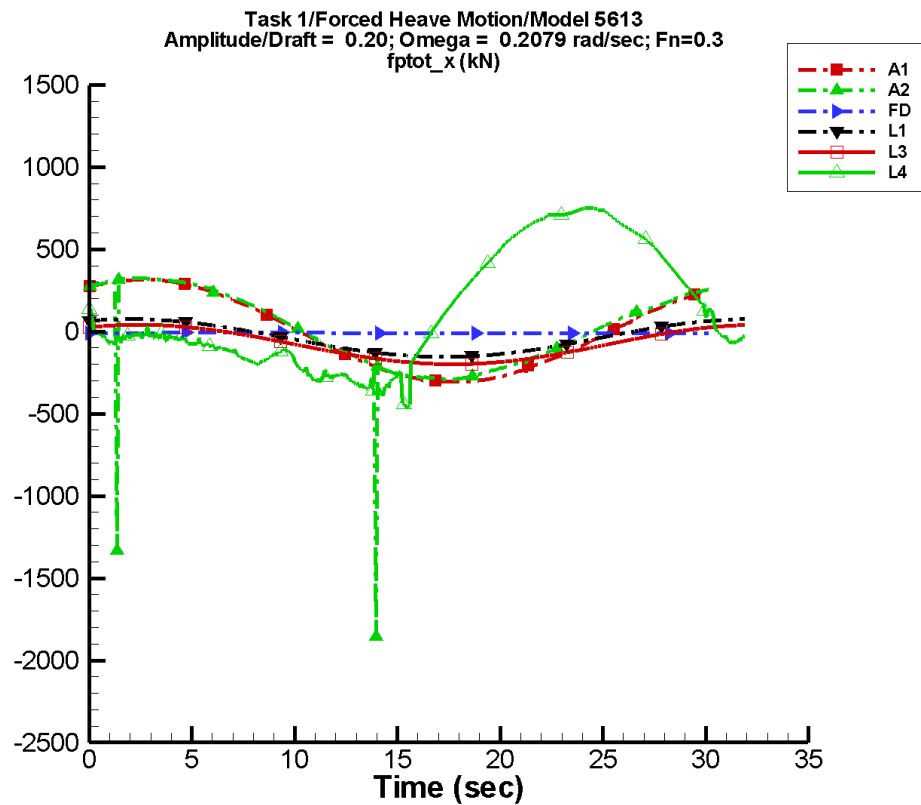
Table A–93. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.416	153.	58	0.939	-24
A2	10.1	151.	59	4.89	-80
FD	-8.87	0.232	-167	4.14E-02	-13
L1	-41.2	57.4	65	0.318	96
L3	-80.3	59.9	60	0.246	98
L4	-7.52	279.	161	91.7	-95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–94. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-153.	157.	-153.	157.
A2	-144.	165.	-142.	165.
FD	-9.37	-8.28	-9.36	-8.29
L1	-98.4	16.3	-98.4	16.3
L3	-140.	-20.2	-140.	-20.3
L4	-364.	333.	-322.	332.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-48. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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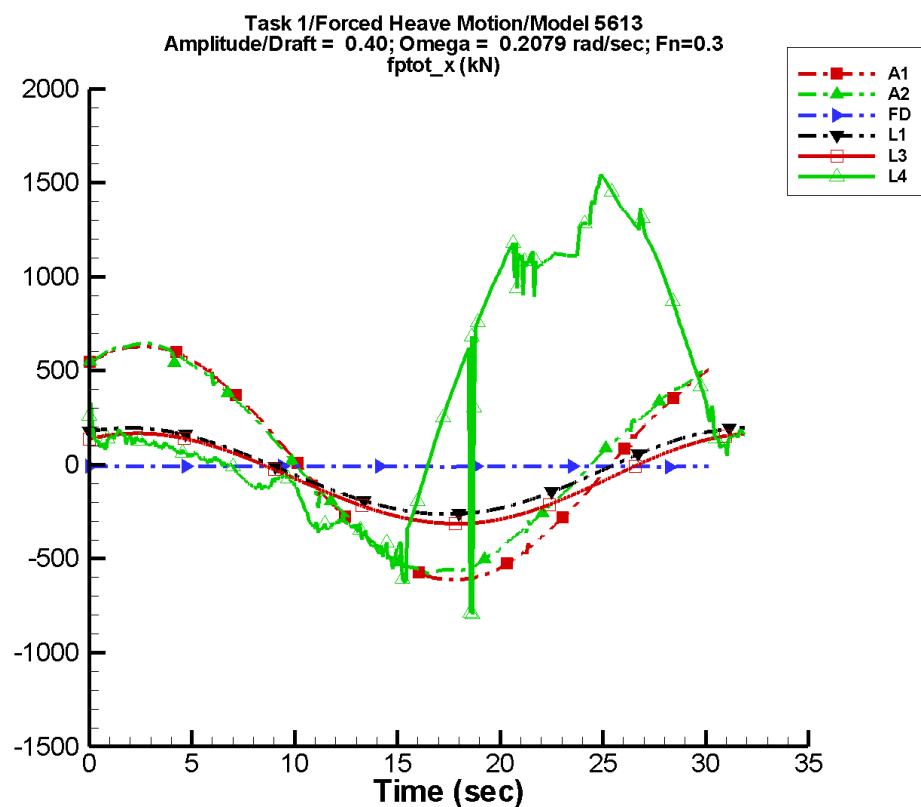
Table A–95. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.833	307.	58	1.88	-24
A2	12.0	299.	62	31.8	-85
FD	-9.37	1.91	-3	0.459	83
L1	-40.3	115.	65	1.27	96
L3	-79.3	120.	60	1.19	96
L4	134.	470.	159	192.	-95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–96. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-306.	314.	-305.	314.
A2	-1.85E+03	324.	-428.	342.
FD	-12.0	-7.55	-11.9	-7.55
L1	-154.	75.2	-154.	75.1
L3	-199.	41.1	-199.	41.0
L4	-466.	752.	-403.	751.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-49. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

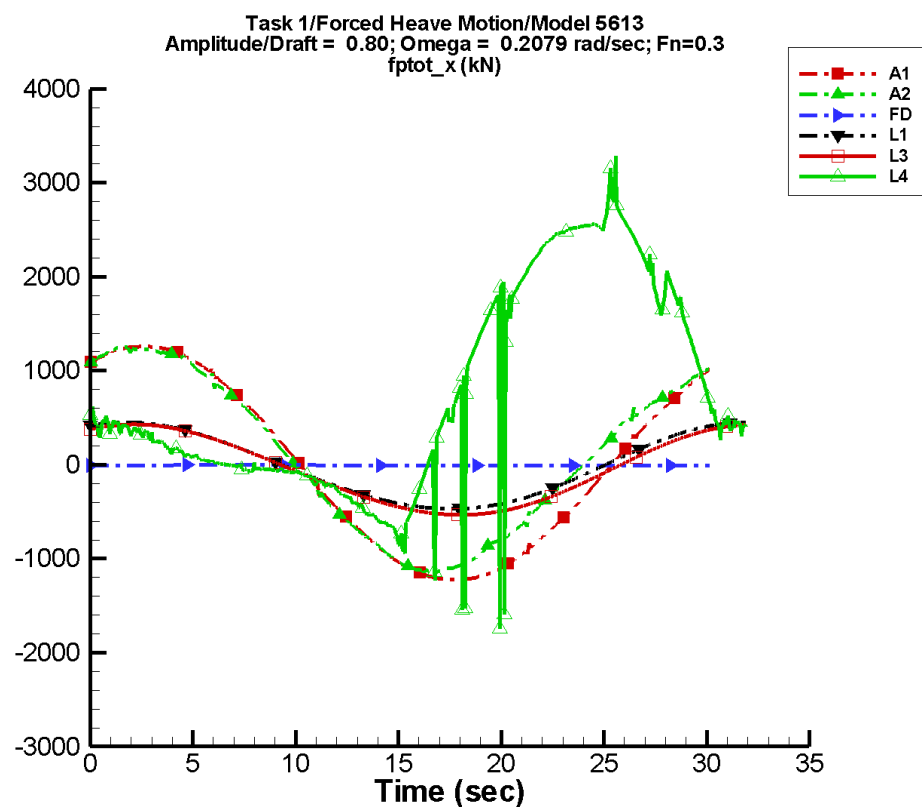
Table A-97. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.67	614.	58	3.76	-24
A2	31.9	583.	64	19.0	-77
FD	-8.36	1.15	1	0.768	-92
L1	-36.4	229.	65	5.08	96
L3	-75.6	240.	60	5.24	96
L4	362.	769.	154	309.	-103
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-98. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-611.	629.	-611.	628.
A2	-584.	646.	-575.	644.
FD	-12.0	-6.62	-11.7	-6.63
L1	-263.	196.	-263.	196.
L3	-313.	167.	-313.	166.
L4	-795.	1.54E+03	-509.	1.52E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-50. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

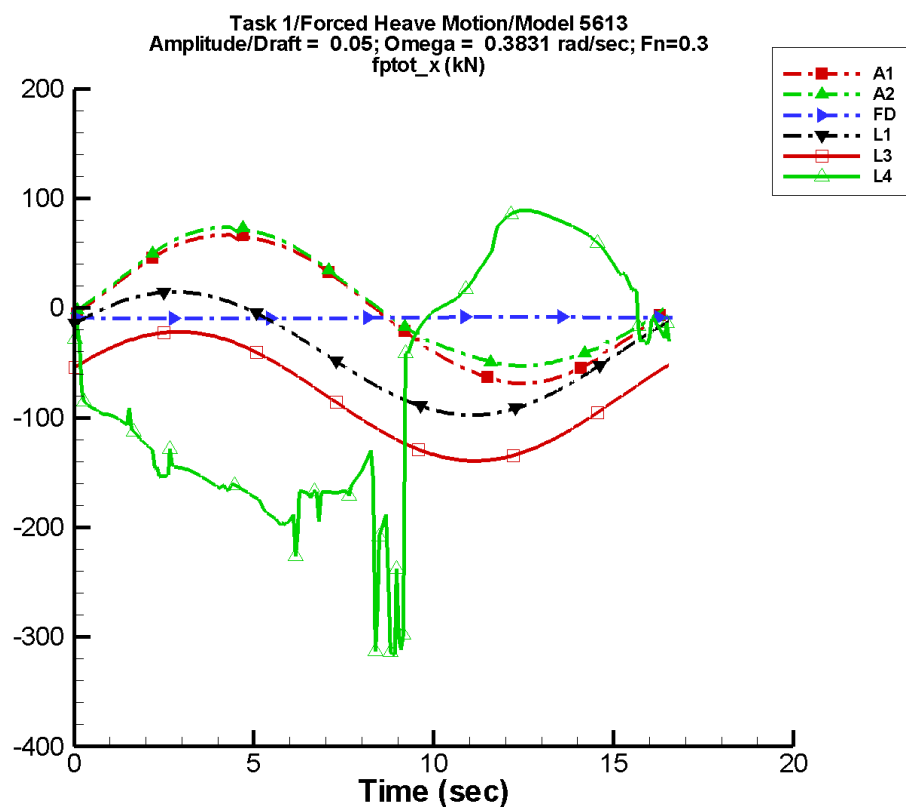
Table A–99. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.33	1.23E+03	58	7.51	-24
A2	86.8	1.14E+03	67	71.2	-82
FD	-7.06	3.00	-1	1.77	-89
L1	-21.0	459.	65	20.3	96
L3	-62.1	478.	60	23.4	95
L4	763.	1.38E+03	153	581.	-116
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–100. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03
A2	-1.15E+03	2.10E+03	-1.14E+03	1.24E+03
FD	-12.0	-2.14	-10.7	-2.15
L1	-470.	450.	-470.	450.
L3	-533.	429.	-533.	429.
L4	-1.74E+03	3.28E+03	-811.	2.90E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-51. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

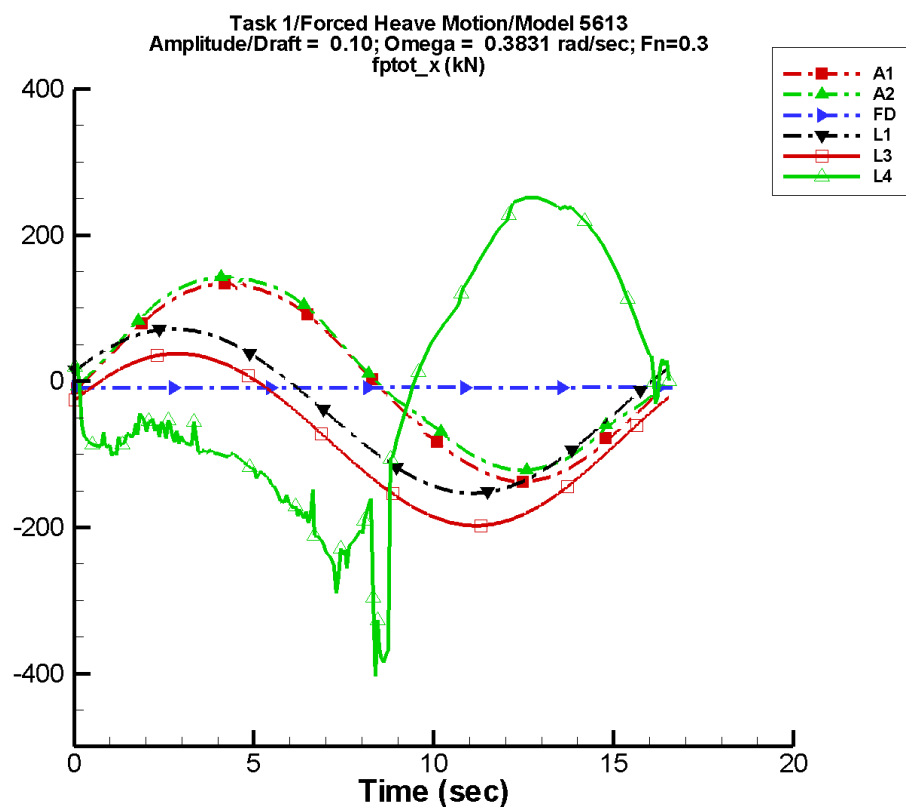
Table A–101. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.80E-02	67.9	-3	2.57E-02	29
A2	7.14	63.3	-3	4.60	-94
FD	-8.84	0.612	-179	1.72E-02	-70
L1	-41.2	56.2	28	0.310	87
L3	-80.3	58.8	26	0.248	84
L4	-72.7	137.	154	40.1	-105
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–102. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-68.9	70.4	-68.6	70.5
A2	-52.7	77.4	-52.5	77.4
FD	-9.37	-8.28	-9.37	-8.29
L1	-97.6	14.8	-97.5	14.7
L3	-139.	-21.6	-139.	-21.7
L4	-323.	89.8	-282.	89.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-52. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

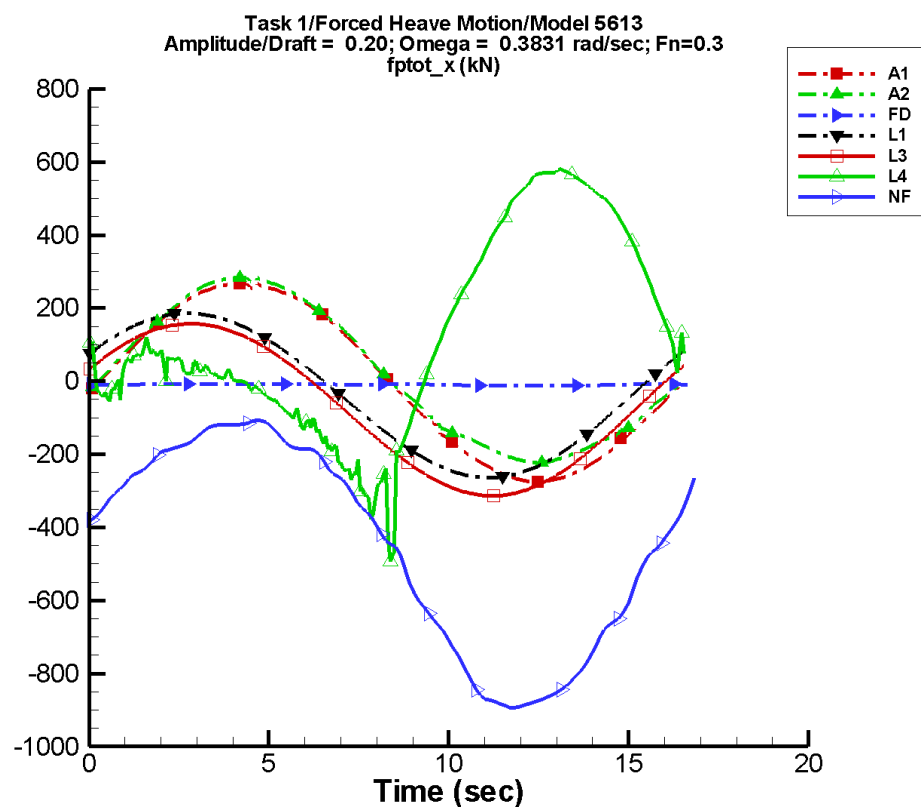
Table A–103. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.60E-02	136.	-3	5.14E-02	29
A2	10.6	132.	-4	4.39	-92
FD	-8.87	0.217	-169	3.37E-02	30
L1	-40.3	112.	28	1.24	87
L3	-79.4	118.	26	1.16	85
L4	-11.5	198.	152	97.2	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–104. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-138.	141.	-137.	141.
A2	-122.	150.	-121.	150.
FD	-9.37	-8.28	-9.35	-8.30
L1	-153.	71.4	-153.	71.2
L3	-198.	37.6	-198.	37.5
L4	-403.	252.	-334.	252.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-53. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

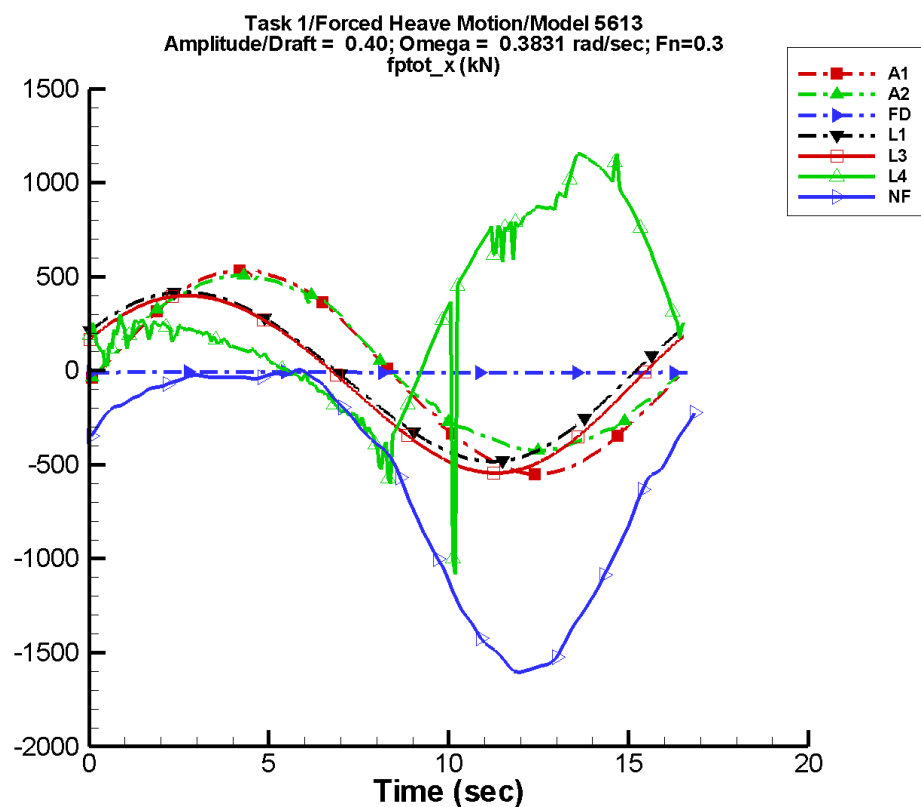
Table A–105. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.192	272.	-3	0.103	29
A2	21.9	252.	-3	15.1	-94
FD	-9.38	1.93	-3	0.480	81
L1	-36.6	225.	28	4.96	87
L3	-75.6	235.	26	4.88	86
L4	120.	320.	148	186.	-97
NF	-480.	397.	47	64.3	-156
NS	—	—	—	—	—

Table A–106. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-275.	282.	-274.	282.
A2	-223.	299.	-221.	299.
FD	-12.0	-7.55	-11.9	-7.56
L1	-264.	186.	-264.	185.
L3	-314.	157.	-313.	157.
L4	-493.	580.	-372.	574.
NF	-996.	-107.	-989.	-113.
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-54. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

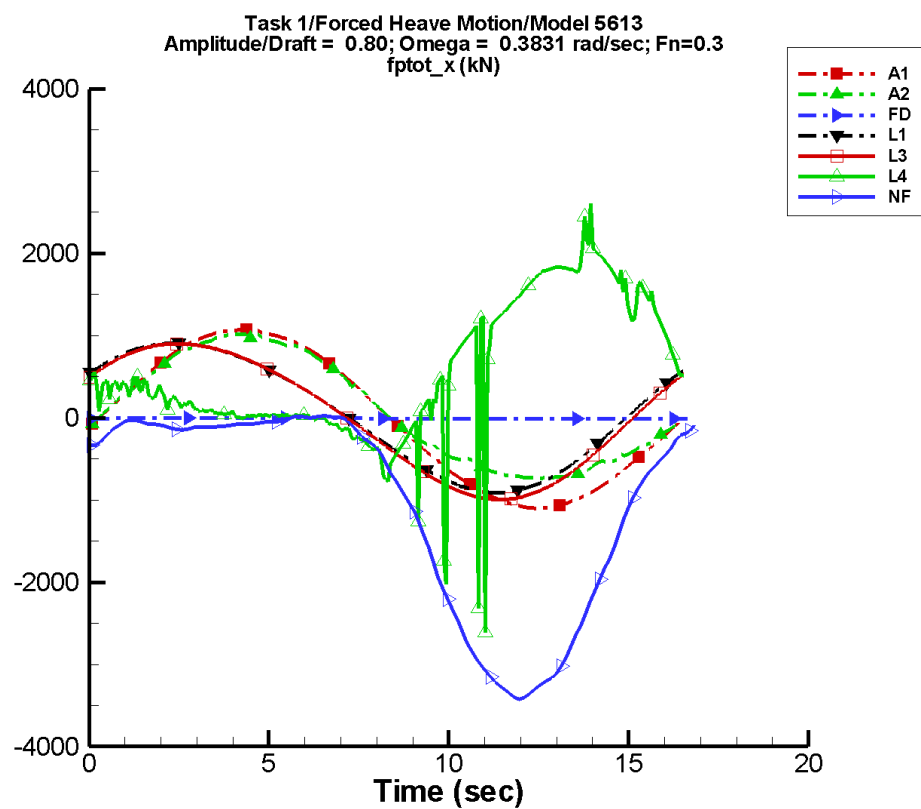
Table A–107. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.384	544.	-3	0.206	29
A2	34.2	475.	-3	17.1	-87
FD	-8.34	1.13	3	0.767	-95
L1	-21.9	449.	28	19.8	87
L3	-61.1	471.	26	20.0	86
L4	303.	506.	140	269.	-109
NF	-629.	794.	47	221.	-169
NS	—	—	—	—	—

Table A–108. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-551.	563.	-548.	564.
A2	-423.	538.	-422.	538.
FD	-12.0	-6.63	-11.0	-6.64
L1	-483.	418.	-482.	418.
L3	-544.	400.	-544.	399.
L4	-1.08E+03	1.16E+03	-478.	1.14E+03
NF	-1.75E+03	7.46	-1.74E+03	-12.3
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–55. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

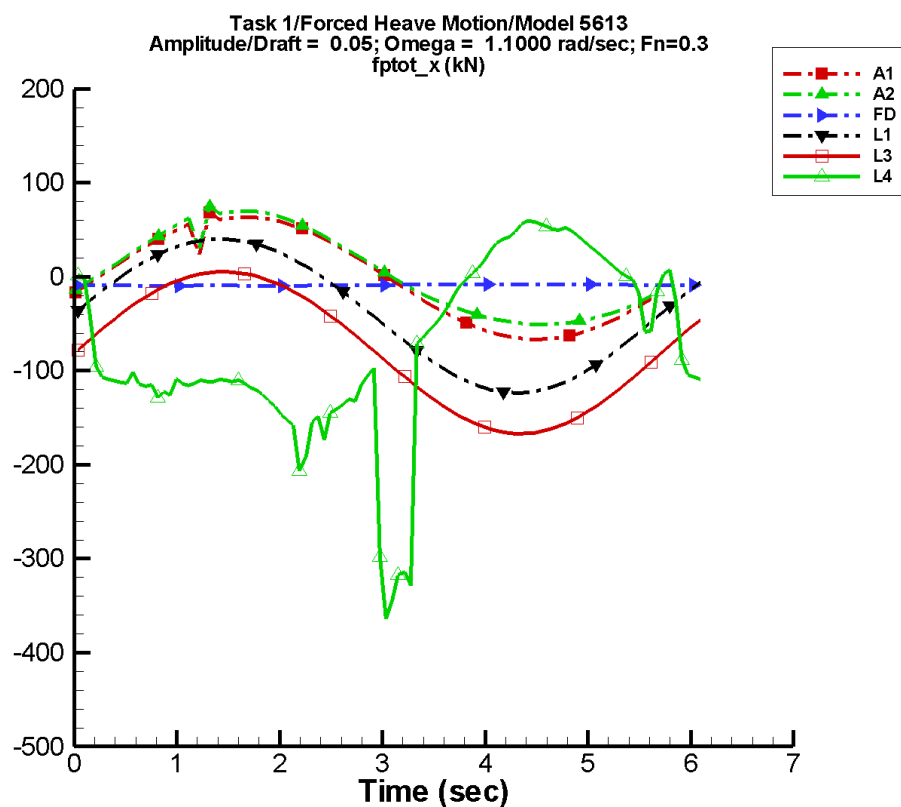
Table A–109. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.768	1.09E+03	-3	0.411	29
A2	89.2	885.	-4	65.7	-93
FD	-7.06	3.01	0	1.74	-89
L1	36.9	899.	28	79.4	87
L3	-4.16	938.	26	82.2	86
L4	546.	943.	141	460.	-135
NF	-1.10E+03	1.60E+03	49	720.	-169
NS	—	—	—	—	—

Table A–110. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03
A2	-734.	1.08E+03	-731.	1.08E+03
FD	-12.0	-2.14	-9.84	-2.17
L1	-912.	905.	-911.	904.
L3	-996.	900.	-995.	899.
L4	-2.61E+03	2.61E+03	-628.	2.17E+03
NF	-3.69E+03	23.4	-3.65E+03	13.5
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–56. Time history of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

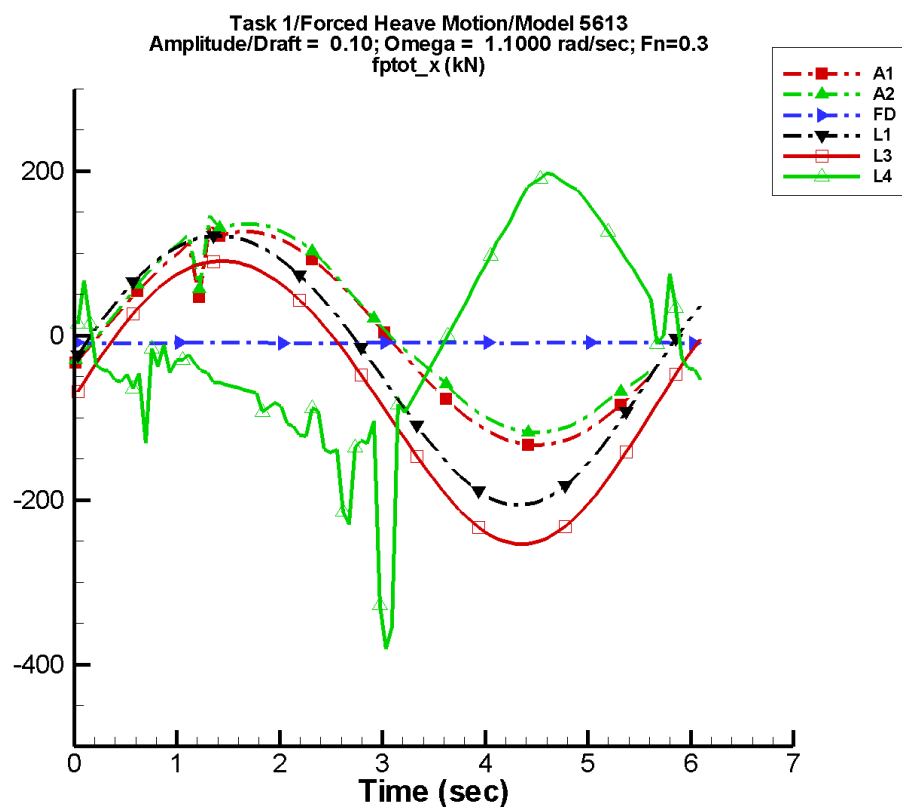
Table A–111. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.92	64.7	-14	0.673	78
A2	5.19	60.1	-14	3.93	-103
FD	-8.84	0.618	-180	2.89E-02	-87
L1	-40.0	81.8	-1	1.98	68
L3	-79.0	86.1	-3	1.96	62
L4	-73.7	101.	142	47.5	-124
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–112. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-66.8	67.9	-64.8	60.3
A2	-50.8	74.5	-49.3	66.7
FD	-9.37	-8.29	-9.36	-8.29
L1	-124.	40.0	-123.	39.2
L3	-167.	5.28	-166.	4.40
L4	-364.	59.6	-260.	54.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-57. Time history of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

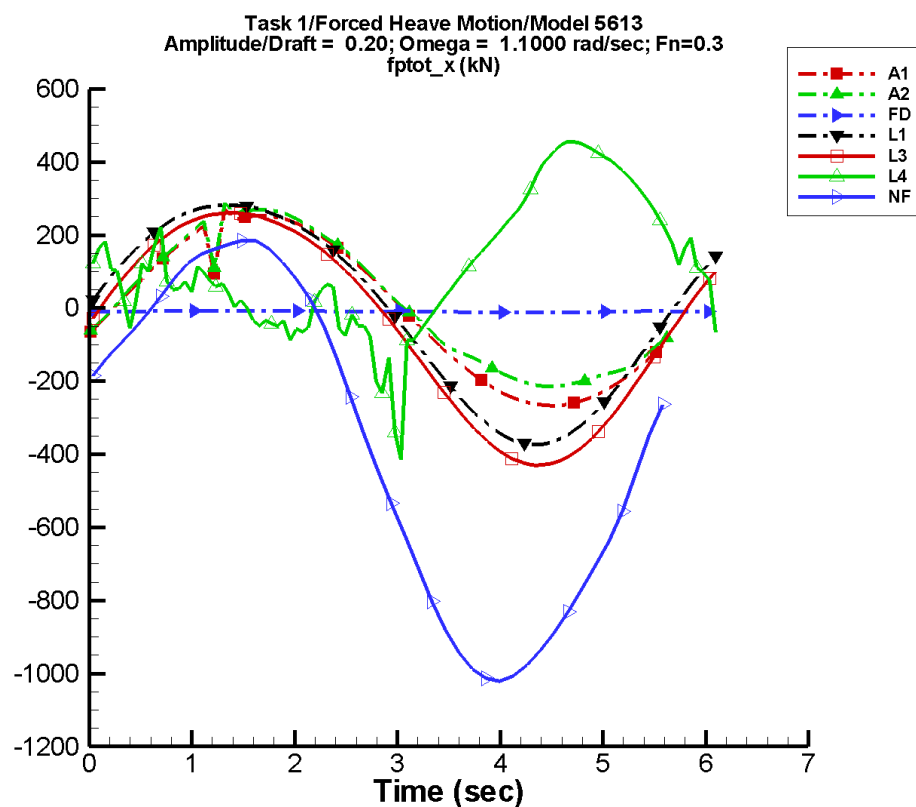
Table A–113. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.83	129.	-14	1.35	78
A2	6.63	126.	-14	3.22	-100
FD	-8.87	0.234	-177	4.87E-02	-83
L1	-35.2	164.	-1	7.90	68
L3	-74.2	172.	-3	8.02	62
L4	-9.45	139.	137	75.4	-120
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–114. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-134.	136.	-130.	121.
A2	-118.	145.	-114.	131.
FD	-9.37	-8.29	-9.21	-8.41
L1	-206.	121.	-204.	120.
L3	-254.	90.6	-252.	89.0
L4	-381.	197.	-210.	188.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-58. Time history of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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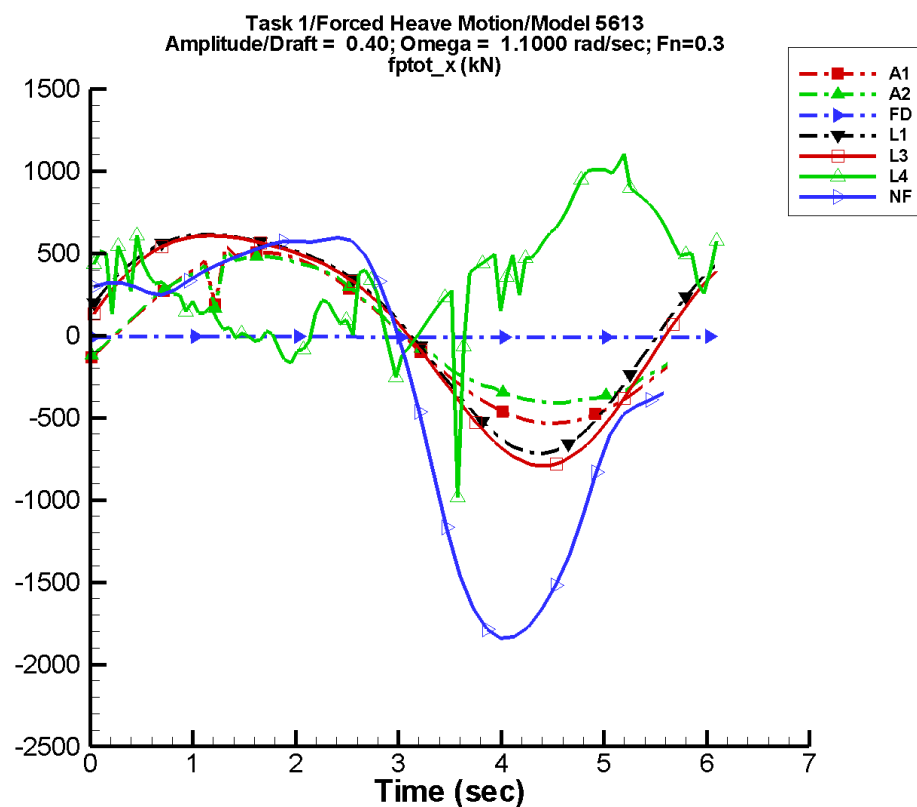
Table A–115. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-7.67	259.	-14	2.69	78
A2	14.0	239.	-14	12.5	-102
FD	-9.37	1.88	-1	0.368	87
L1	-16.3	327.	-1	31.6	68
L3	-55.3	344.	-3	32.3	62
L4	116.	220.	133	104.	-132
NF	-365.	579.	-15	61.6	95
NS	—	—	—	—	—

Table A–116. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-267.	272.	-259.	241.
A2	-214.	288.	-206.	256.
FD	-12.0	-7.55	-11.9	-7.60
L1	-374.	282.	-369.	280.
L3	-430.	260.	-425.	258.
L4	-415.	456.	-194.	443.
NF	-1.02E+03	190.	-972.	159.
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-59. Time history of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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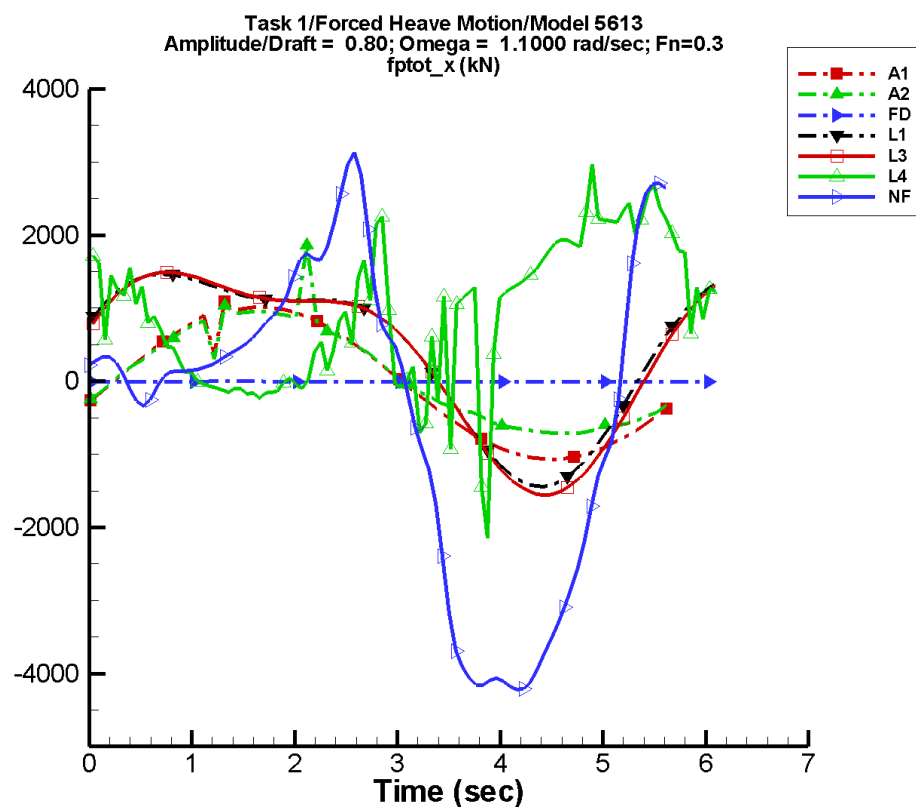
Table A–117. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-15.3	518.	-14	5.38	78
A2	18.8	450.	-15	12.5	-96
FD	-8.34	1.15	-2	0.699	-88
L1	59.3	654.	-1	126.	68
L3	20.2	689.	-3	130.	62
L4	329.	401.	129	151.	162
NF	-379.	1.10E+03	-20	377.	86
NS	—	—	—	—	—

Table A–118. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-534.	543.	-518.	483.
A2	-409.	517.	-396.	458.
FD	-11.8	-6.63	-9.59	-6.76
L1	-717.	612.	-704.	608.
L3	-793.	607.	-779.	603.
L4	-984.	1.11E+03	-64.9	996.
NF	-1.85E+03	648.	-1.69E+03	579.
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–60. Time history of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

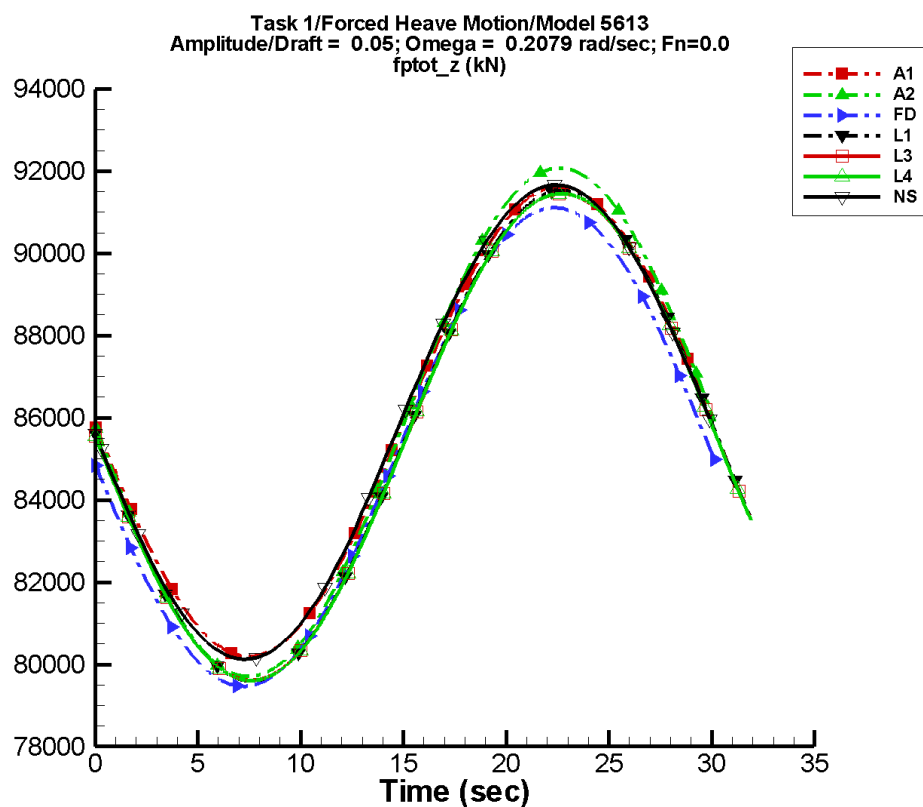
Table A–119. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-30.7	1.04E+03	-14	10.8	78
A2	76.7	865.	-16	68.5	-129
FD	-7.06	3.01	0	1.79	-90
L1	362.	1.31E+03	-1	506.	68
L3	321.	1.37E+03	-3	521.	62
L4	923.	903.	137	650.	133
NF	-570.	2.20E+03	0	1.72E+03	101
NS	—	—	—	—	—

Table A–120. Minimum and maximum of F_x^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+03	1.09E+03	-1.04E+03	966.
A2	-718.	1.86E+03	-690.	997.
FD	-11.4	-2.14	-9.74	-2.55
L1	-1.44E+03	1.46E+03	-1.40E+03	1.45E+03
L3	-1.56E+03	1.49E+03	-1.52E+03	1.47E+03
L4	-2.14E+03	2.96E+03	-159.	2.34E+03
NF	-4.22E+03	3.13E+03	-4.19E+03	2.45E+03
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-61. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

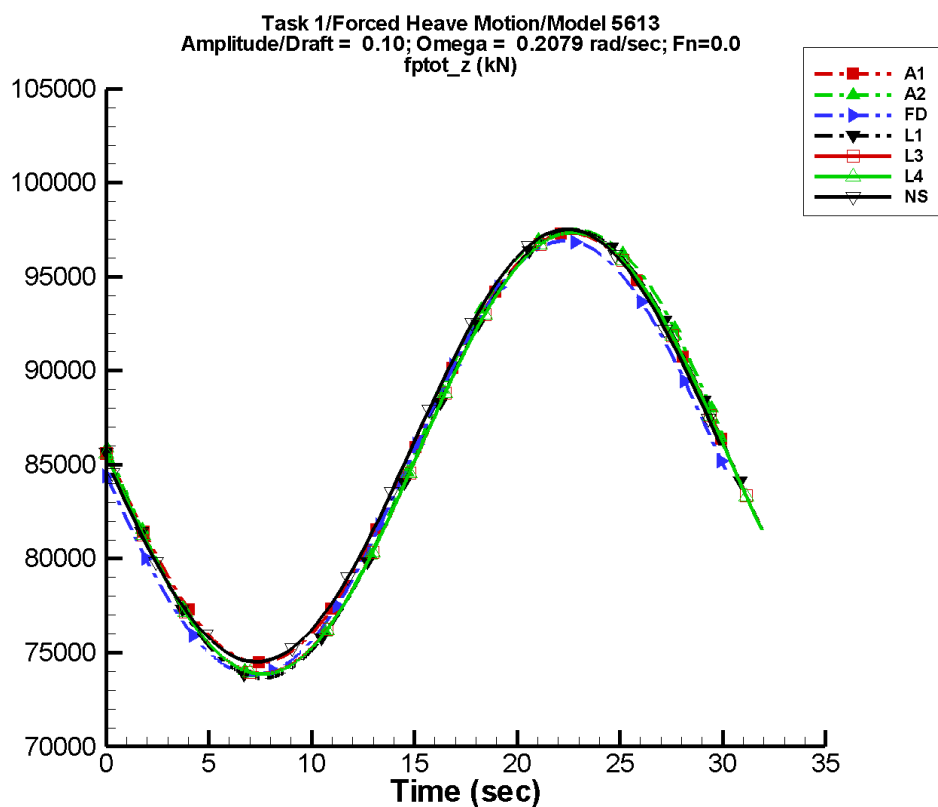
Table A–121. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.71E+03	-179	0.111	-167
A2	8.59E+04	6.20E+03	-179	2.84	139
FD	8.53E+04	5.83E+03	-176	13.8	-87
L1	8.56E+04	5.96E+03	180	0.464	82
L3	8.55E+04	5.92E+03	180	10.5	-92
L4	8.55E+04	5.93E+03	180	10.8	-89
NF	—	—	—	—	—
NS	8.59E+04	5.78E+03	-177	1.10	26

Table A–122. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.02E+04	9.16E+04	8.02E+04	9.16E+04
A2	7.97E+04	9.21E+04	7.97E+04	9.21E+04
FD	7.95E+04	9.11E+04	7.95E+04	9.11E+04
L1	7.96E+04	9.15E+04	7.96E+04	9.15E+04
L3	7.96E+04	9.14E+04	7.96E+04	9.14E+04
L4	7.96E+04	9.15E+04	7.96E+04	9.14E+04
NF	—	—	—	—
NS	8.01E+04	9.17E+04	8.02E+04	9.16E+04

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

Figure A-62. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

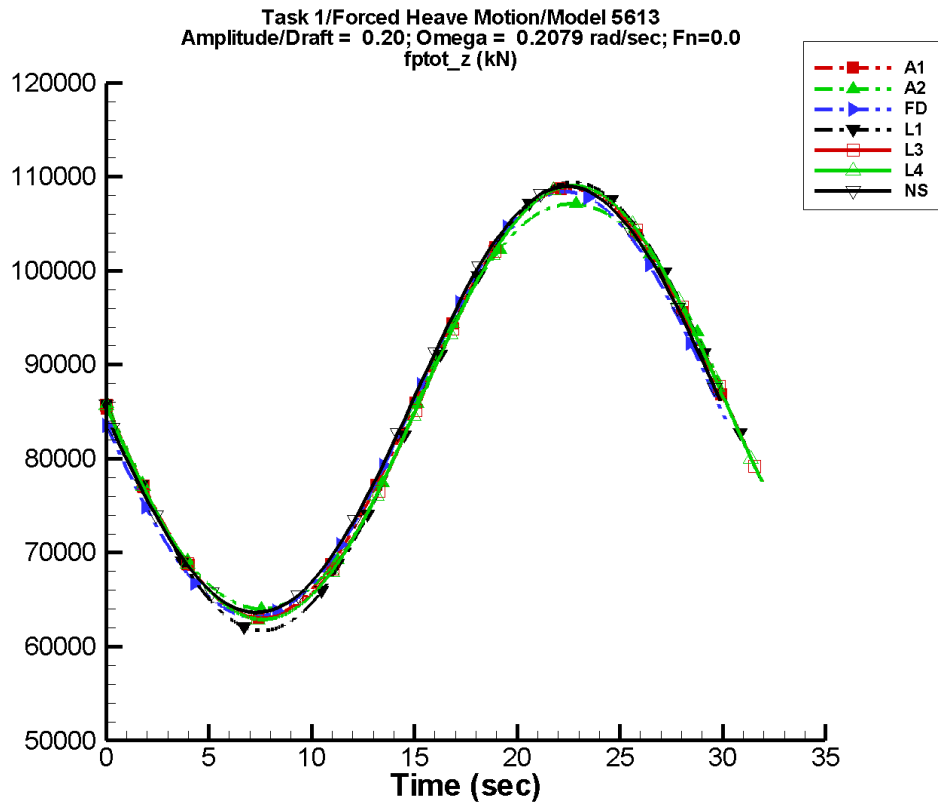
Table A–123. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.14E+04	-179	0.204	-171
A2	8.58E+04	1.20E+04	180	75.4	97
FD	8.53E+04	1.16E+04	-176	62.0	-87
L1	8.56E+04	1.19E+04	180	1.88	81
L3	8.56E+04	1.18E+04	180	57.2	-92
L4	8.56E+04	1.18E+04	180	55.2	-89
NF	—	—	—	—	—
NS	8.59E+04	1.15E+04	-177	77.2	-89

Table A–124. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.45E+04	9.73E+04	7.45E+04	9.73E+04
A2	7.39E+04	9.75E+04	7.39E+04	9.75E+04
FD	7.38E+04	9.69E+04	7.38E+04	9.69E+04
L1	7.36E+04	9.75E+04	7.36E+04	9.75E+04
L3	7.39E+04	9.73E+04	7.39E+04	9.73E+04
L4	7.39E+04	9.74E+04	7.39E+04	9.73E+04
NF	—	—	—	—
NS	7.45E+04	9.75E+04	7.46E+04	9.74E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–63. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

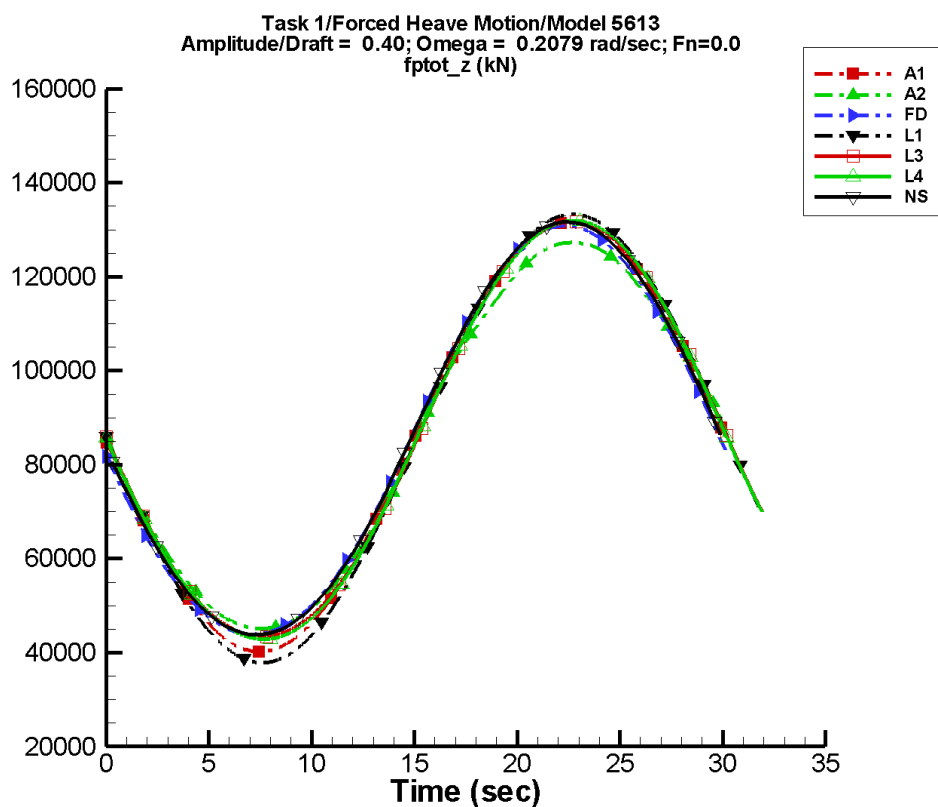
Table A–125. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.29E+04	-179	0.439	-170
A2	8.57E+04	2.21E+04	180	84.2	133
FD	8.55E+04	2.28E+04	-176	286.	-87
L1	8.56E+04	2.38E+04	180	7.52	80
L3	8.57E+04	2.31E+04	180	279.	-92
L4	8.57E+04	2.32E+04	180	262.	-88
NF	—	—	—	—	—
NS	8.61E+04	2.28E+04	-177	216.	-87

Table A–126. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.31E+04	1.09E+05	6.30E+04	1.09E+05
A2	6.40E+04	1.07E+05	6.40E+04	1.07E+05
FD	6.32E+04	1.08E+05	6.32E+04	1.08E+05
L1	6.17E+04	1.09E+05	6.17E+04	1.09E+05
L3	6.30E+04	1.09E+05	6.30E+04	1.09E+05
L4	6.29E+04	1.09E+05	6.29E+04	1.09E+05
NF	—	—	—	—
NS	6.36E+04	1.09E+05	6.38E+04	1.09E+05

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

Figure A-64. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

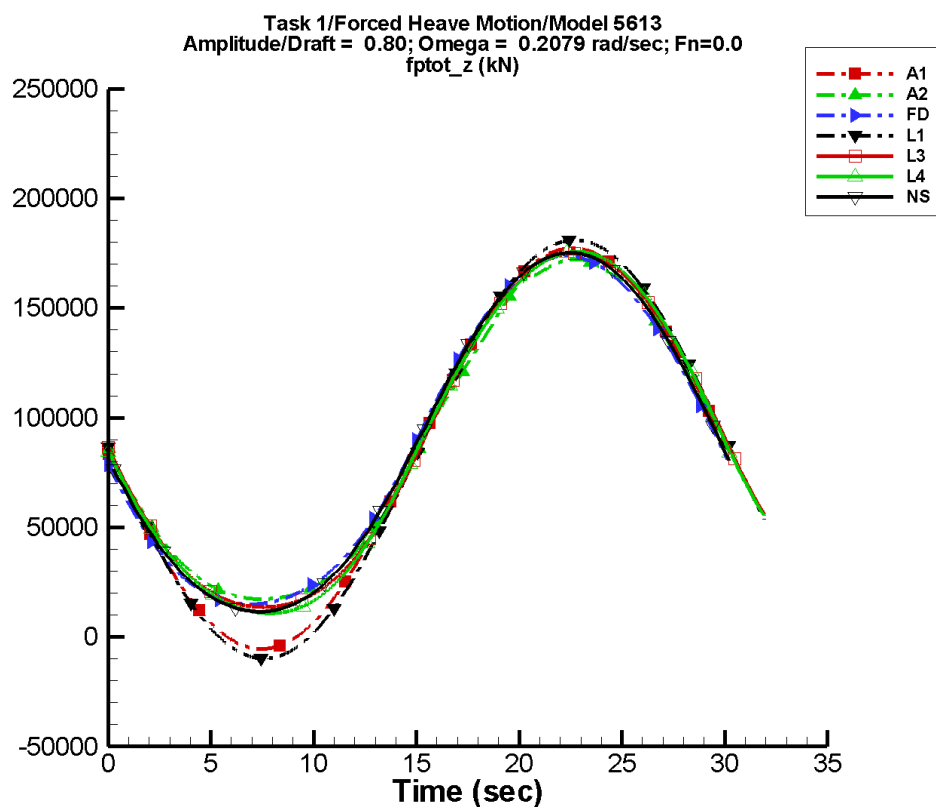
Table A–127. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	4.57E+04	-179	0.865	-170
A2	8.57E+04	4.16E+04	180	351.	-104
FD	8.63E+04	4.40E+04	-176	1.17E+03	-87
L1	8.56E+04	4.77E+04	180	30.1	80
L3	8.65E+04	4.47E+04	180	1.14E+03	-92
L4	8.64E+04	4.50E+04	180	1.06E+03	-88
NF	—	—	—	—	—
NS	8.68E+04	4.43E+04	-177	956.	-87

Table A–128. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.02E+04	1.32E+05	4.01E+04	1.32E+05
A2	4.51E+04	1.27E+05	4.51E+04	1.27E+05
FD	4.39E+04	1.31E+05	4.40E+04	1.31E+05
L1	3.79E+04	1.33E+05	3.79E+04	1.33E+05
L3	4.34E+04	1.32E+05	4.34E+04	1.32E+05
L4	4.29E+04	1.32E+05	4.29E+04	1.32E+05
NF	—	—	—	—
NS	4.38E+04	1.32E+05	4.42E+04	1.31E+05

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

Figure A-65. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

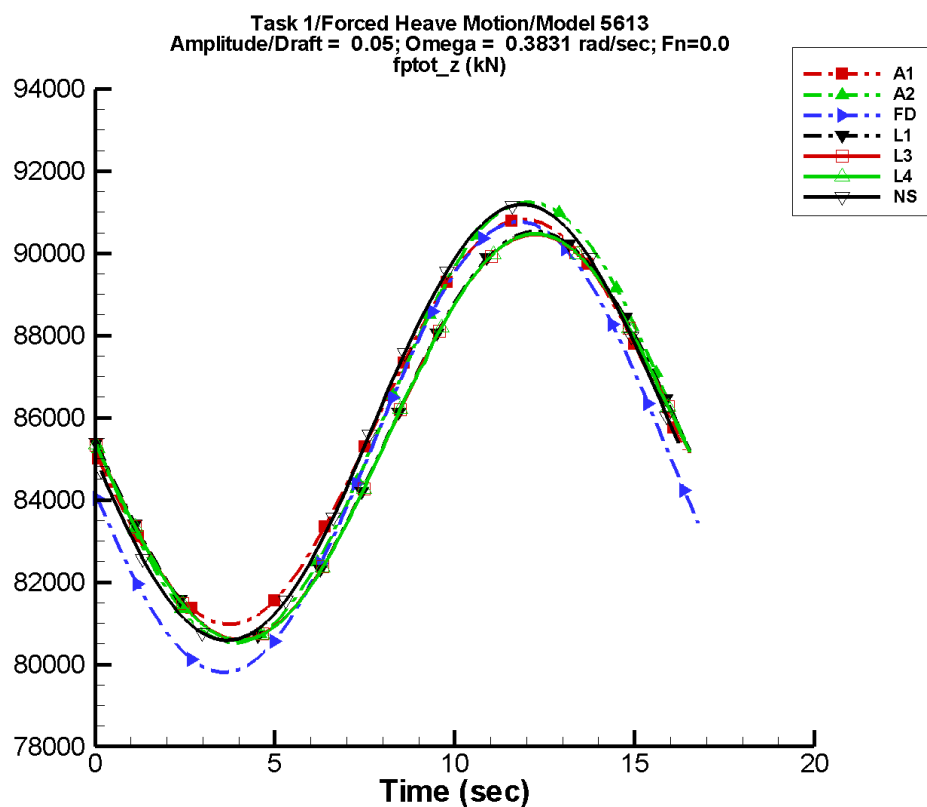
Table A–129. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	9.14E+04	-179	1.73	-171
A2	8.95E+04	7.93E+04	180	5.16E+03	-94
FD	8.96E+04	8.17E+04	-176	4.94E+03	-87
L1	8.57E+04	9.54E+04	180	120.	80
L3	8.98E+04	8.31E+04	180	4.86E+03	-92
L4	8.94E+04	8.45E+04	180	4.26E+03	-88
NF	—	—	—	—	—
NS	8.98E+04	8.35E+04	-177	3.79E+03	-86

Table A–130. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.50E+03	1.77E+05	-5.64E+03	1.77E+05
A2	1.73E+04	1.72E+05	1.71E+04	1.72E+05
FD	1.49E+04	1.74E+05	1.49E+04	1.74E+05
L1	-9.84E+03	1.81E+05	-9.80E+03	1.81E+05
L3	1.37E+04	1.75E+05	1.37E+04	1.75E+05
L4	1.08E+04	1.76E+05	1.08E+04	1.76E+05
NF	—	—	—	—
NS	1.15E+04	1.75E+05	1.20E+04	1.75E+05

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

Figure A–66. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

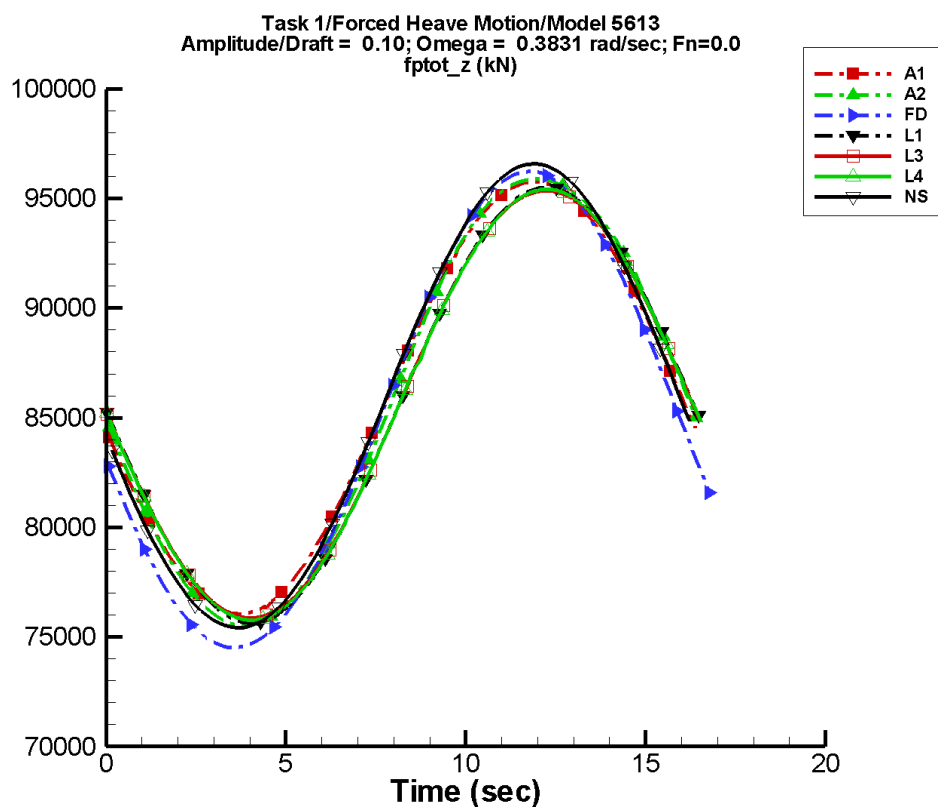
Table A–131. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	4.93E+03	-172	0.905	103
A2	8.59E+04	5.38E+03	-175	3.61	126
FD	8.53E+04	5.48E+03	-169	13.3	-88
L1	8.56E+04	4.97E+03	-179	2.12	78
L3	8.55E+04	4.93E+03	-179	8.05	-82
L4	8.55E+04	4.95E+03	-179	8.51	-111
NF	—	—	—	—	—
NS	8.59E+04	5.31E+03	-171	4.82	43

Table A–132. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.09E+04	9.08E+04	8.10E+04	9.08E+04
A2	8.05E+04	9.12E+04	8.05E+04	9.12E+04
FD	7.98E+04	9.08E+04	7.98E+04	9.07E+04
L1	8.06E+04	9.05E+04	8.06E+04	9.05E+04
L3	8.06E+04	9.05E+04	8.06E+04	9.05E+04
L4	8.06E+04	9.05E+04	8.06E+04	9.05E+04
NF	—	—	—	—
NS	8.06E+04	9.12E+04	8.06E+04	9.11E+04

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

Figure A-67. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

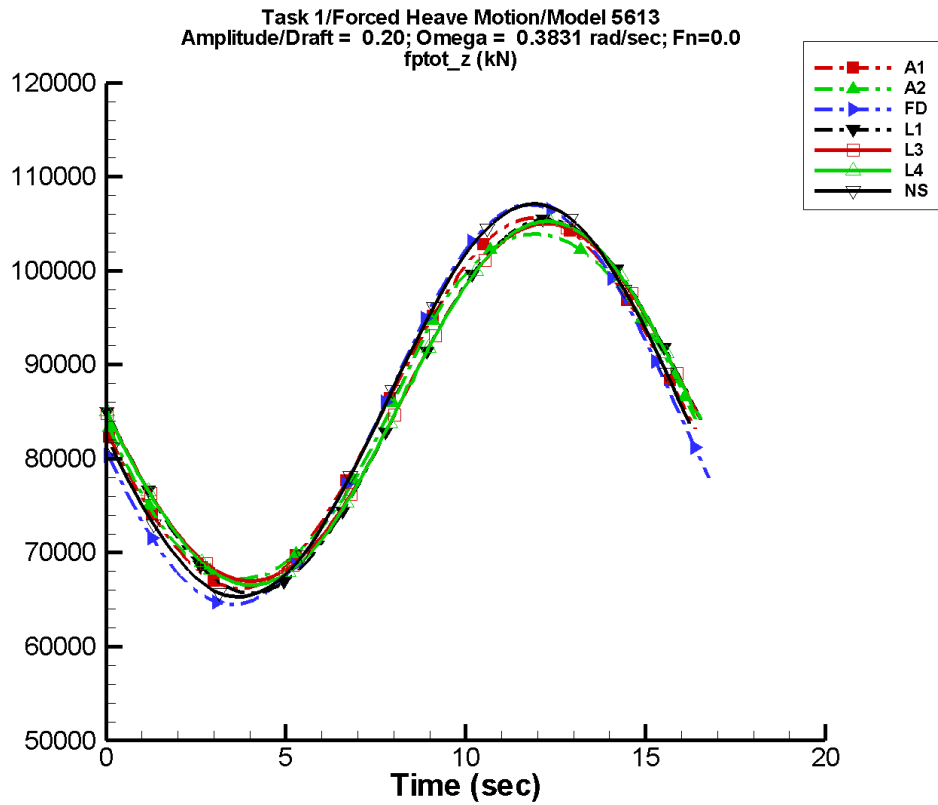
Table A–133. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	9.86E+03	-172	1.81	103
A2	8.58E+04	1.04E+04	-175	76.2	95
FD	8.53E+04	1.09E+04	-169	59.9	-88
L1	8.56E+04	9.94E+03	-179	8.49	78
L3	8.56E+04	9.78E+03	-179	46.0	-84
L4	8.55E+04	9.85E+03	-179	39.8	-100
NF	—	—	—	—	—
NS	8.59E+04	1.06E+04	-171	70.9	-86

Table A–134. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.60E+04	9.57E+04	7.61E+04	9.57E+04
A2	7.55E+04	9.59E+04	7.55E+04	9.59E+04
FD	7.45E+04	9.62E+04	7.46E+04	9.62E+04
L1	7.56E+04	9.55E+04	7.56E+04	9.55E+04
L3	7.59E+04	9.54E+04	7.59E+04	9.53E+04
L4	7.58E+04	9.54E+04	7.58E+04	9.54E+04
NF	—	—	—	—
NS	7.54E+04	9.66E+04	7.55E+04	9.65E+04

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

Figure A-68. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

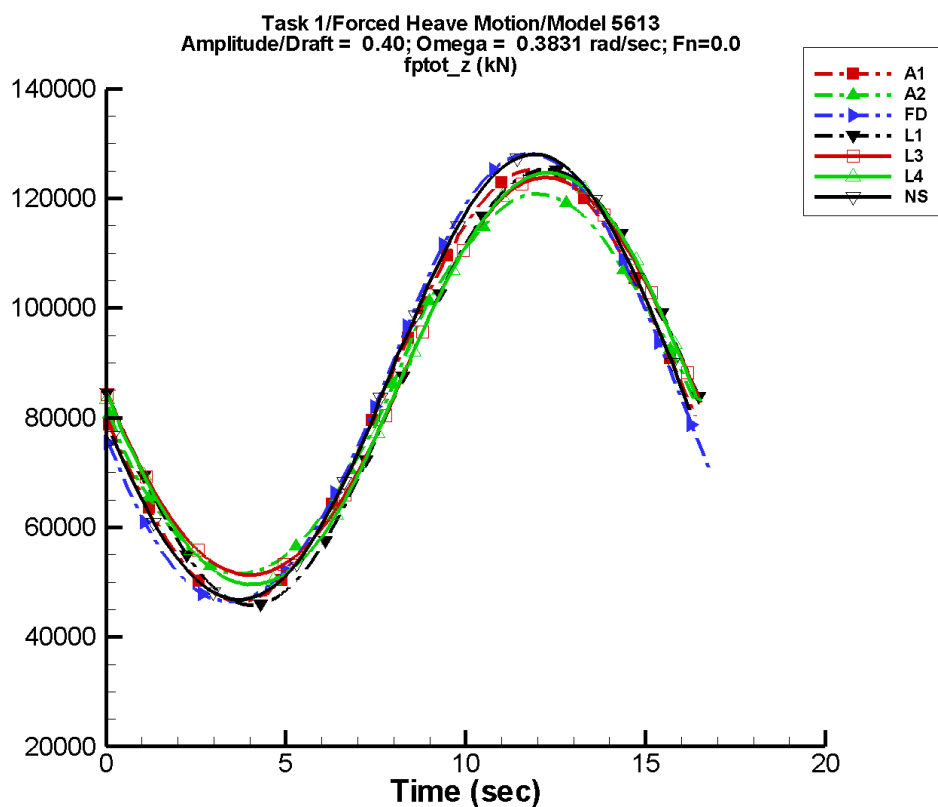
Table A–135. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.97E+04	-172	3.61	103
A2	8.57E+04	1.89E+04	-174	82.5	133
FD	8.55E+04	2.14E+04	-168	277.	-88
L1	8.56E+04	1.99E+04	-179	34.0	77
L3	8.58E+04	1.92E+04	-178	233.	-86
L4	8.57E+04	1.94E+04	-179	188.	-94
NF	—	—	—	—	—
NS	8.60E+04	2.10E+04	-171	168.	-80

Table A–136. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.61E+04	1.06E+05	6.62E+04	1.06E+05
A2	6.71E+04	1.04E+05	6.72E+04	1.04E+05
FD	6.45E+04	1.07E+05	6.46E+04	1.07E+05
L1	6.57E+04	1.05E+05	6.57E+04	1.05E+05
L3	6.70E+04	1.05E+05	6.70E+04	1.05E+05
L4	6.66E+04	1.05E+05	6.66E+04	1.05E+05
NF	—	—	—	—
NS	6.53E+04	1.07E+05	6.55E+04	1.07E+05

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

Figure A-69. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

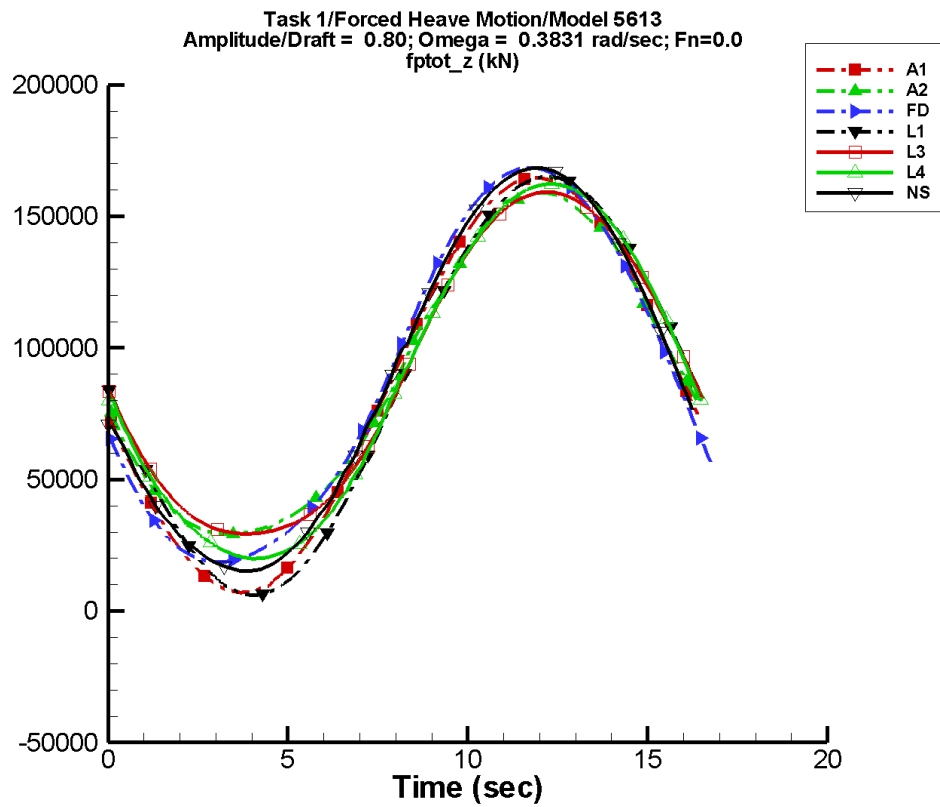
Table A–137. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	3.94E+04	-172	7.23	103
A2	8.57E+04	3.51E+04	-173	350.	-107
FD	8.63E+04	4.13E+04	-168	1.13E+03	-88
L1	8.57E+04	3.98E+04	-179	136.	77
L3	8.66E+04	3.67E+04	-178	962.	-86
L4	8.63E+04	3.79E+04	-179	759.	-92
NF	—	—	—	—	—
NS	8.67E+04	4.09E+04	-171	794.	-78

Table A–138. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.62E+04	1.25E+05	4.65E+04	1.25E+05
A2	5.11E+04	1.21E+05	5.15E+04	1.21E+05
FD	4.64E+04	1.28E+05	4.66E+04	1.28E+05
L1	4.58E+04	1.25E+05	4.59E+04	1.25E+05
L3	5.13E+04	1.24E+05	5.13E+04	1.24E+05
L4	4.96E+04	1.25E+05	4.96E+04	1.25E+05
NF	—	—	—	—
NS	4.68E+04	1.28E+05	4.72E+04	1.28E+05

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

Figure A-70. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

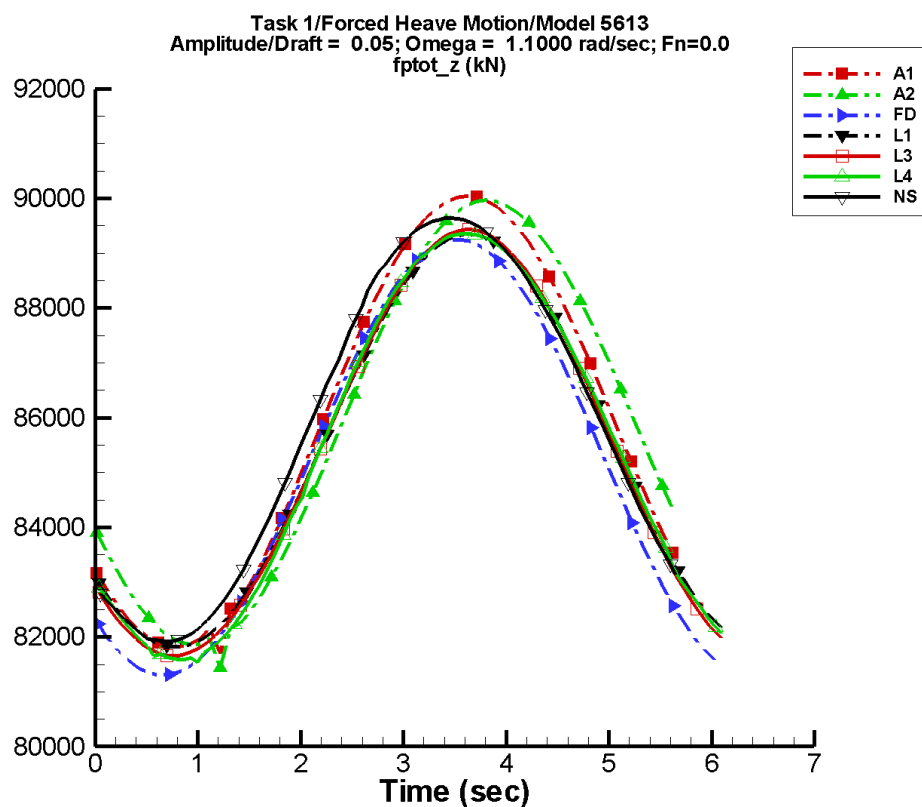
Table A–139. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.60E+04	7.89E+04	-172	14.4	103
A2	8.95E+04	6.64E+04	-173	5.16E+03	-97
FD	8.96E+04	7.64E+04	-167	4.78E+03	-88
L1	8.61E+04	7.95E+04	-179	544.	77
L3	9.01E+04	6.71E+04	-178	4.12E+03	-86
L4	8.85E+04	7.26E+04	-178	2.60E+03	-88
NF	—	—	—	—	—
NS	8.92E+04	7.76E+04	-171	2.84E+03	-75

Table A–140. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.51E+03	1.65E+05	7.16E+03	1.64E+05
A2	2.80E+04	1.59E+05	2.91E+04	1.59E+05
FD	1.86E+04	1.68E+05	1.88E+04	1.68E+05
L1	6.05E+03	1.65E+05	6.16E+03	1.65E+05
L3	2.94E+04	1.59E+05	2.94E+04	1.59E+05
L4	1.99E+04	1.62E+05	2.00E+04	1.62E+05
NF	—	—	—	—
NS	1.52E+04	1.69E+05	1.57E+04	1.68E+05

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

Figure A-71. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

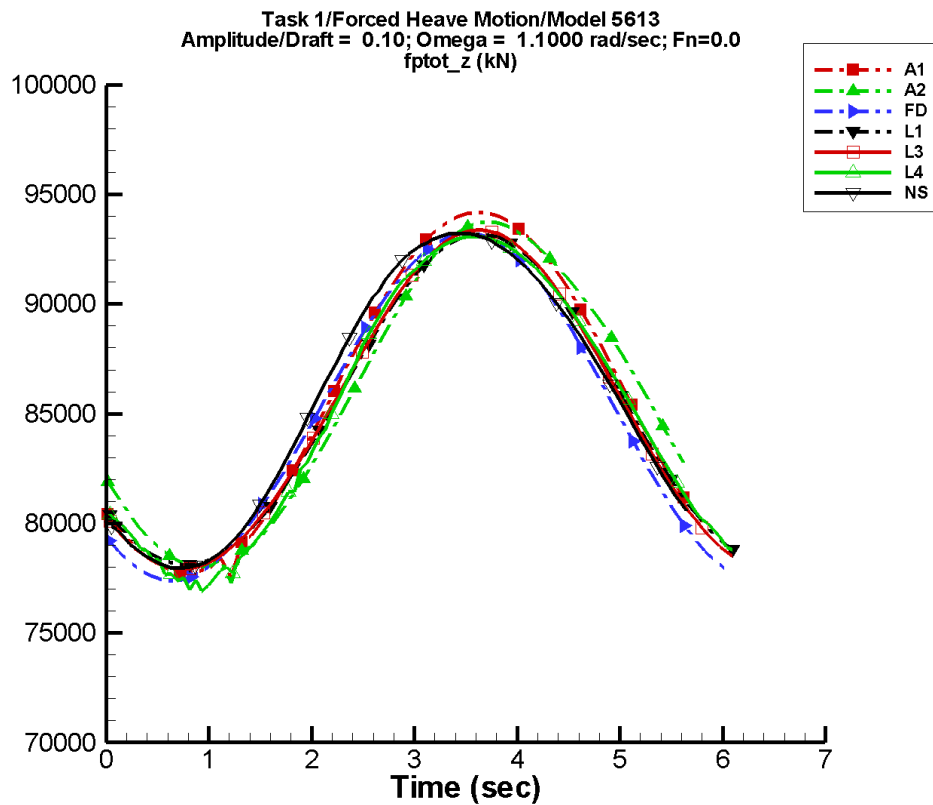
Table A-141. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	4.15E+03	-139	54.6	82
A2	8.59E+04	4.10E+03	-151	57.9	84
FD	8.53E+04	3.97E+03	-132	14.5	-90
L1	8.55E+04	3.77E+03	-139	35.1	-11
L3	8.55E+04	3.88E+03	-139	41.4	-28
L4	8.55E+04	3.90E+03	-140	93.1	98
NF	—	—	—	—	—
NS	8.58E+04	3.88E+03	-131	102.	116

Table A-142. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.14E+04	9.00E+04	8.18E+04	8.99E+04
A2	8.14E+04	9.00E+04	8.18E+04	8.98E+04
FD	8.13E+04	8.92E+04	8.14E+04	8.91E+04
L1	8.18E+04	8.93E+04	8.19E+04	8.93E+04
L3	8.17E+04	8.94E+04	8.17E+04	8.94E+04
L4	8.15E+04	8.94E+04	8.16E+04	8.93E+04
NF	—	—	—	—
NS	8.19E+04	8.97E+04	8.20E+04	8.96E+04

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

Figure A-72. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

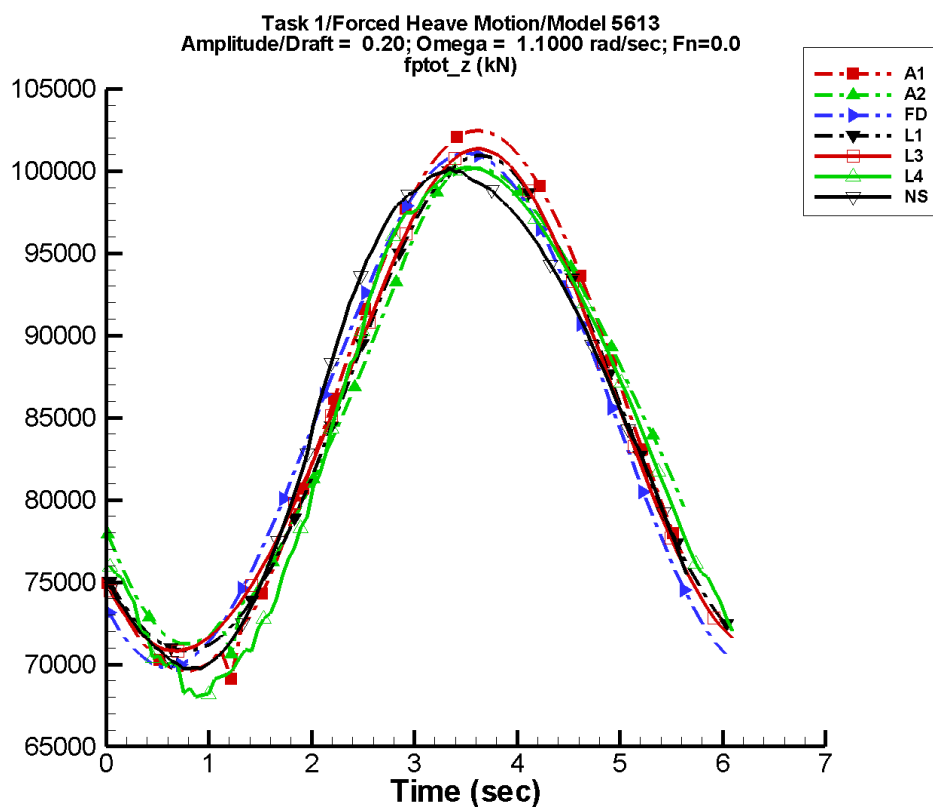
Table A-143. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	8.31E+03	-139	109.	82
A2	8.58E+04	7.88E+03	-150	190.	84
FD	8.53E+04	7.89E+03	-132	65.5	-89
L1	8.55E+04	7.53E+03	-139	141.	-11
L3	8.55E+04	7.71E+03	-138	172.	-33
L4	8.54E+04	7.87E+03	-141	410.	100
NF	—	—	—	—	—
NS	8.58E+04	7.69E+03	-132	347.	130

Table A-144. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.70E+04	9.42E+04	7.78E+04	9.39E+04
A2	7.73E+04	9.38E+04	7.79E+04	9.35E+04
FD	7.74E+04	9.32E+04	7.76E+04	9.30E+04
L1	7.81E+04	9.32E+04	7.82E+04	9.31E+04
L3	7.79E+04	9.34E+04	7.80E+04	9.33E+04
L4	7.69E+04	9.31E+04	7.73E+04	9.30E+04
NF	—	—	—	—
NS	7.80E+04	9.32E+04	7.80E+04	9.32E+04

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

Figure A-73. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

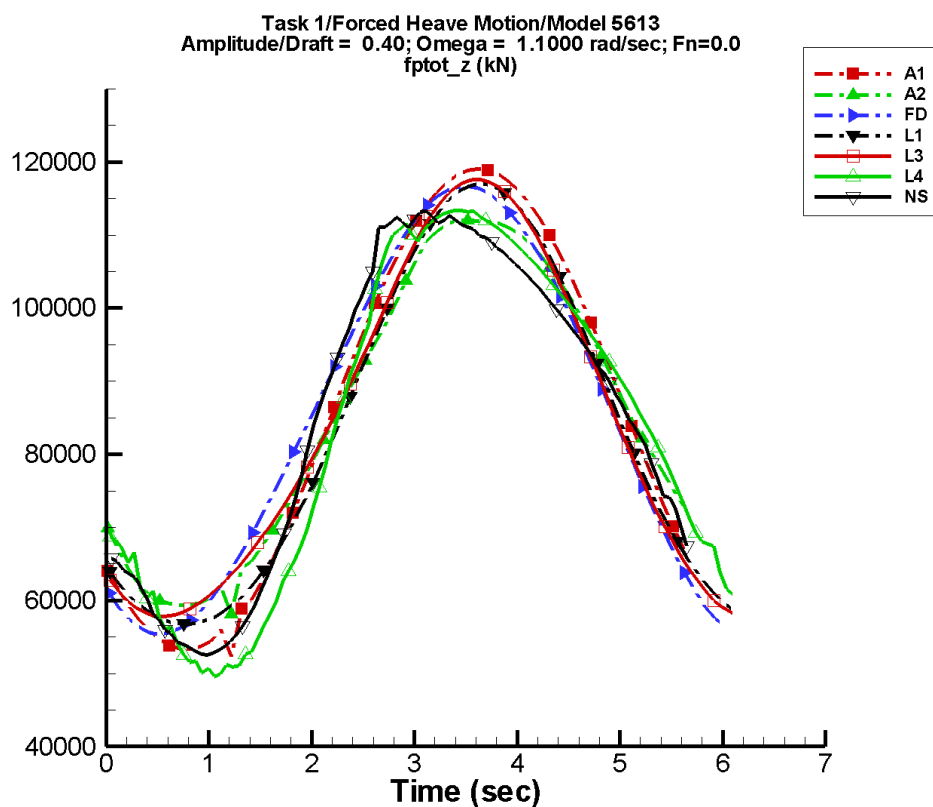
Table A–145. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.66E+04	-139	218.	82
A2	8.56E+04	1.43E+04	-145	315.	92
FD	8.55E+04	1.55E+04	-131	301.	-89
L1	8.53E+04	1.51E+04	-139	564.	-12
L3	8.55E+04	1.51E+04	-137	715.	-37
L4	8.51E+04	1.58E+04	-142	1.53E+03	101
NF	—	—	—	—	—
NS	8.55E+04	1.52E+04	-132	1.50E+03	124

Table A–146. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.80E+04	1.02E+05	6.97E+04	1.02E+05
A2	6.97E+04	1.00E+05	7.13E+04	9.98E+04
FD	6.98E+04	1.01E+05	7.03E+04	1.01E+05
L1	7.08E+04	1.01E+05	7.10E+04	1.01E+05
L3	7.08E+04	1.01E+05	7.10E+04	1.01E+05
L4	6.79E+04	1.00E+05	6.86E+04	1.00E+05
NF	—	—	—	—
NS	6.97E+04	1.00E+05	7.00E+04	9.98E+04

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

Figure A-74. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

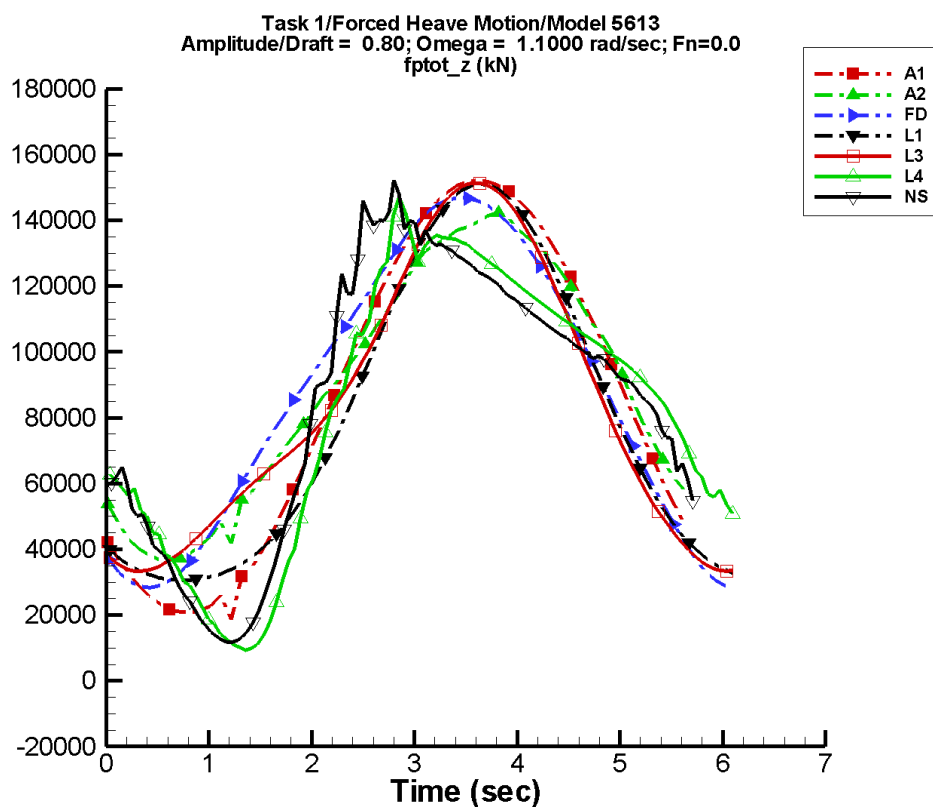
Table A–147. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	3.32E+04	-139	437.	82
A2	8.57E+04	2.67E+04	-142	193.	117
FD	8.63E+04	3.01E+04	-128	1.23E+03	-89
L1	8.46E+04	3.01E+04	-139	2.26E+03	-12
L3	8.55E+04	2.92E+04	-135	2.88E+03	-38
L4	8.44E+04	3.09E+04	-144	5.84E+03	96
NF	—	—	—	—	—
NS	8.51E+04	2.93E+04	-134	5.42E+03	119

Table A–148. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	5.02E+04	1.19E+05	5.35E+04	1.18E+05
A2	5.61E+04	1.12E+05	5.92E+04	1.12E+05
FD	5.54E+04	1.17E+05	5.65E+04	1.16E+05
L1	5.67E+04	1.17E+05	5.70E+04	1.17E+05
L3	5.78E+04	1.18E+05	5.81E+04	1.17E+05
L4	4.96E+04	1.13E+05	5.06E+04	1.13E+05
NF	—	—	—	—
NS	5.26E+04	1.13E+05	5.31E+04	1.13E+05

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

Figure A-75. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

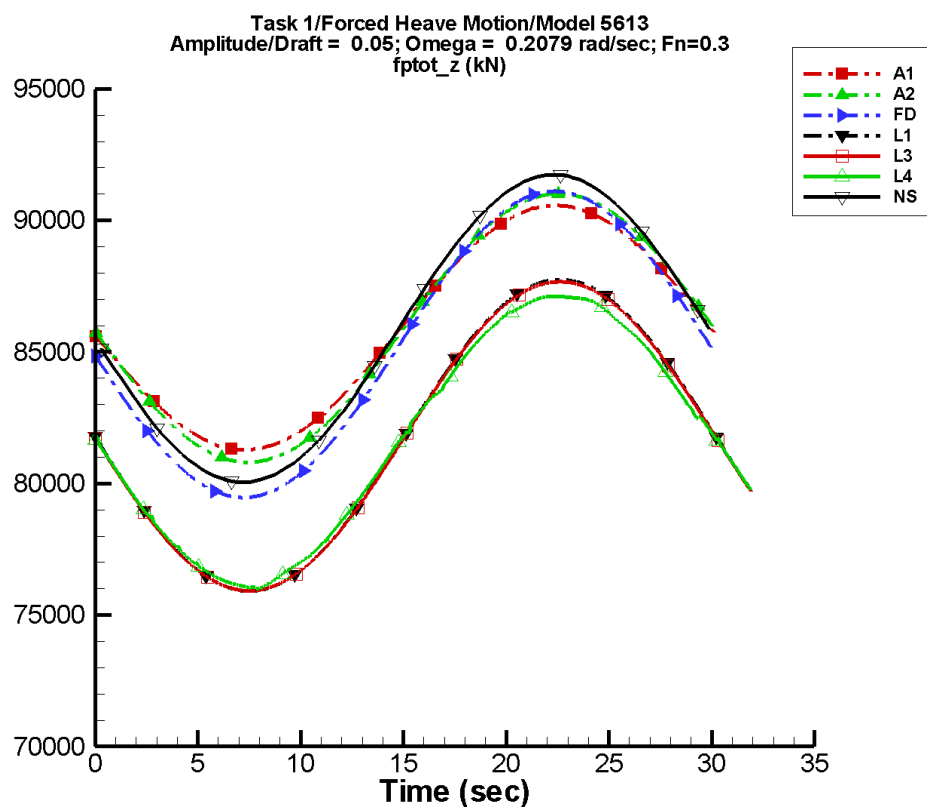
Table A–149. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.58E+04	6.65E+04	-139	873.	82
A2	8.94E+04	5.06E+04	-138	4.16E+03	-107
FD	8.96E+04	5.65E+04	-123	5.19E+03	-89
L1	8.18E+04	6.02E+04	-139	9.04E+03	-12
L3	8.58E+04	5.45E+04	-130	1.17E+04	-39
L4	8.33E+04	5.54E+04	-147	2.00E+04	94
NF	—	—	—	—	—
NS	8.49E+04	5.40E+04	-136	2.21E+04	114

Table A–150. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.45E+04	1.52E+05	2.10E+04	1.50E+05
A2	3.08E+04	1.42E+05	3.82E+04	1.39E+05
FD	2.83E+04	1.47E+05	3.11E+04	1.45E+05
L1	3.05E+04	1.51E+05	3.08E+04	1.50E+05
L3	3.33E+04	1.51E+05	3.42E+04	1.50E+05
L4	9.20E+03	1.49E+05	1.17E+04	1.41E+05
NF	—	—	—	—
NS	1.17E+04	1.53E+05	1.31E+04	1.44E+05

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

Figure A-76. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

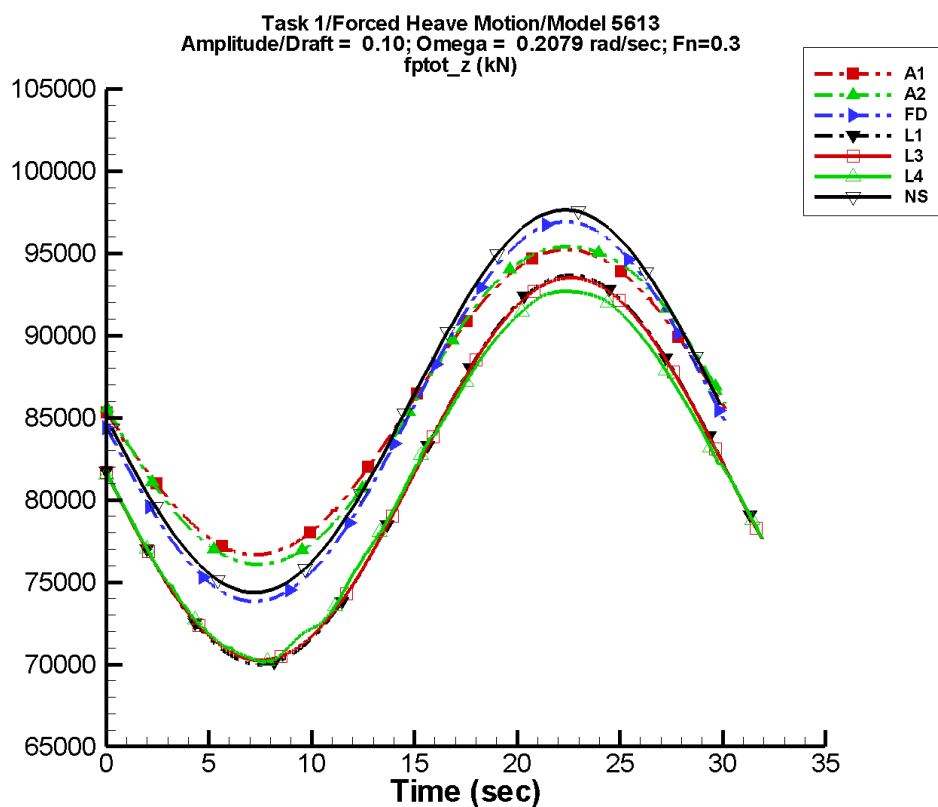
Table A–151. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	4.65E+03	-177	11.2	-156
A2	8.59E+04	5.14E+03	-179	12.4	-168
FD	8.53E+04	5.83E+03	-176	13.8	-87
L1	8.18E+04	5.92E+03	-180	0.545	76
L3	8.18E+04	5.88E+03	-180	10.5	-92
L4	8.17E+04	5.47E+03	-179	76.3	106
NF	—	—	—	—	—
NS	8.59E+04	5.85E+03	-176	1.99	-1

Table A–152. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.12E+04	9.06E+04	8.12E+04	9.06E+04
A2	8.07E+04	9.10E+04	8.07E+04	9.10E+04
FD	7.95E+04	9.11E+04	7.95E+04	9.11E+04
L1	7.59E+04	8.77E+04	7.59E+04	8.77E+04
L3	7.59E+04	8.77E+04	7.59E+04	8.77E+04
L4	7.60E+04	8.71E+04	7.60E+04	8.71E+04
NF	—	—	—	—
NS	8.00E+04	9.17E+04	8.01E+04	9.17E+04

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

Figure A-77. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

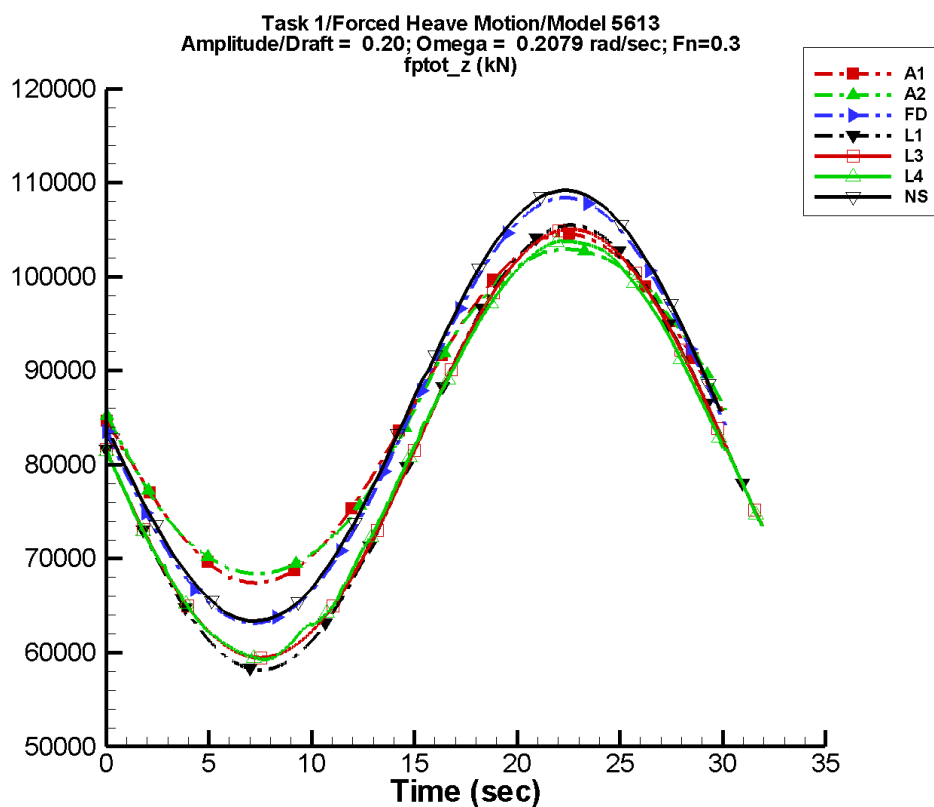
Table A–153. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	9.31E+03	-177	22.3	-156
A2	8.58E+04	9.87E+03	-179	72.0	114
FD	8.53E+04	1.16E+04	-176	62.0	-87
L1	8.18E+04	1.18E+04	-180	2.20	76
L3	8.18E+04	1.17E+04	-180	56.9	-92
L4	8.17E+04	1.11E+04	-179	126.	100
NF	—	—	—	—	—
NS	8.59E+04	1.16E+04	-176	81.7	-91

Table A–154. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.65E+04	9.52E+04	7.65E+04	9.52E+04
A2	7.59E+04	9.54E+04	7.59E+04	9.54E+04
FD	7.38E+04	9.69E+04	7.38E+04	9.69E+04
L1	7.00E+04	9.37E+04	7.00E+04	9.37E+04
L3	7.02E+04	9.35E+04	7.02E+04	9.35E+04
L4	7.02E+04	9.27E+04	7.02E+04	9.27E+04
NF	—	—	—	—
NS	7.44E+04	9.77E+04	7.45E+04	9.75E+04

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

Figure A-78. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

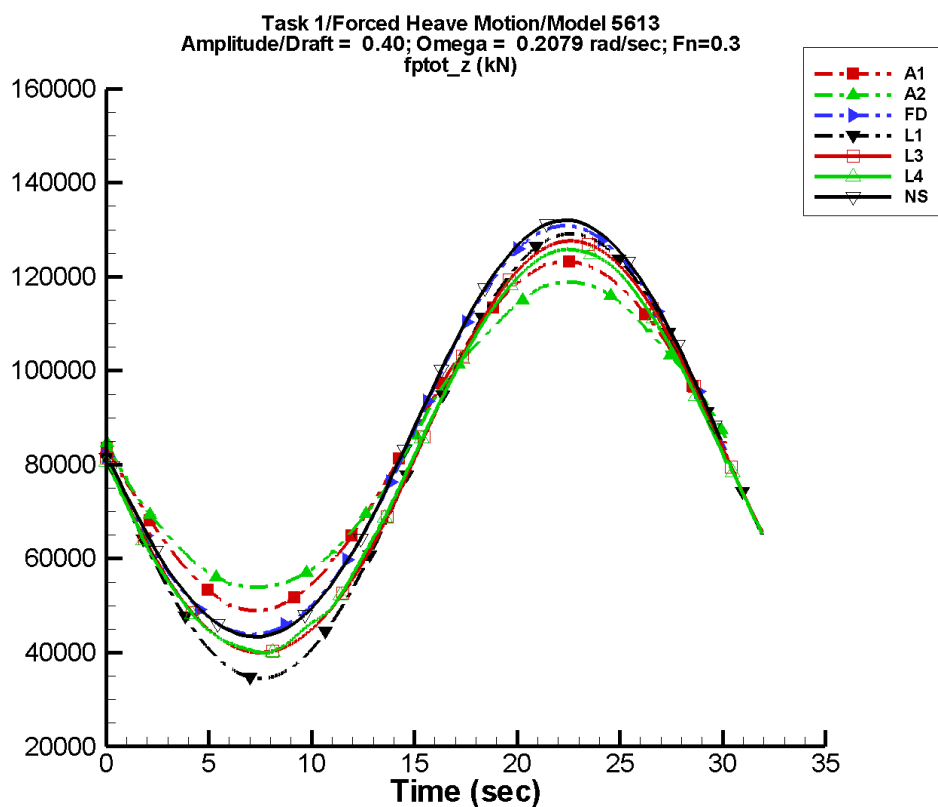
Table A–155. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.86E+04	-177	44.6	-156
A2	8.57E+04	1.79E+04	-178	107.	156
FD	8.55E+04	2.28E+04	-176	286.	-87
L1	8.18E+04	2.37E+04	-180	8.80	76
L3	8.20E+04	2.29E+04	-179	278.	-92
L4	8.17E+04	2.22E+04	-179	50.7	164
NF	—	—	—	—	—
NS	8.61E+04	2.30E+04	-176	188.	-87

Table A–156. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.71E+04	1.05E+05	6.70E+04	1.05E+05
A2	6.80E+04	1.03E+05	6.80E+04	1.03E+05
FD	6.32E+04	1.08E+05	6.32E+04	1.08E+05
L1	5.82E+04	1.05E+05	5.82E+04	1.05E+05
L3	5.95E+04	1.05E+05	5.95E+04	1.05E+05
L4	5.93E+04	1.04E+05	5.93E+04	1.04E+05
NF	—	—	—	—
NS	6.34E+04	1.09E+05	6.36E+04	1.09E+05

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

Figure A-79. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

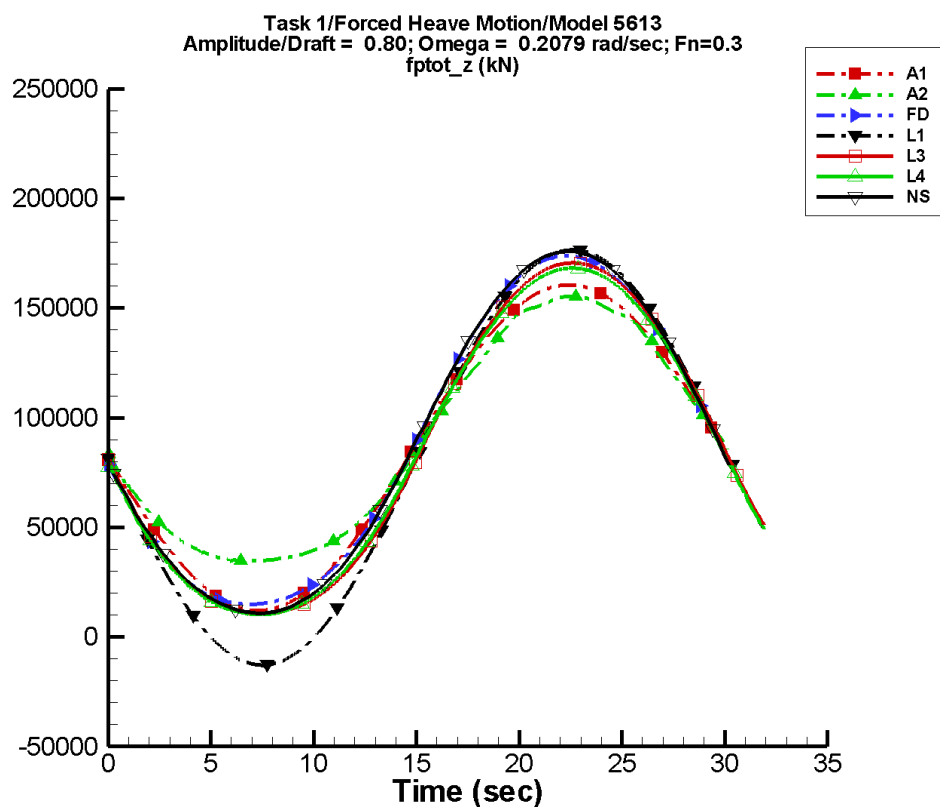
Table A–157. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.60E+04	3.72E+04	-177	89.2	-156
A2	8.58E+04	3.31E+04	-178	412.	-114
FD	8.63E+04	4.40E+04	-176	1.17E+03	-87
L1	8.19E+04	4.73E+04	-180	35.2	76
L3	8.28E+04	4.43E+04	-179	1.14E+03	-92
L4	8.23E+04	4.32E+04	-179	830.	-101
NF	—	—	—	—	—
NS	8.67E+04	4.47E+04	-176	987.	-82

Table A–158. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.82E+04	1.23E+05	4.82E+04	1.23E+05
A2	5.32E+04	1.19E+05	5.31E+04	1.19E+05
FD	4.39E+04	1.31E+05	4.40E+04	1.31E+05
L1	3.45E+04	1.29E+05	3.45E+04	1.29E+05
L3	4.00E+04	1.28E+05	4.00E+04	1.28E+05
L4	4.00E+04	1.26E+05	4.00E+04	1.26E+05
NF	—	—	—	—
NS	4.34E+04	1.32E+05	4.38E+04	1.32E+05

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

Figure A-80. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

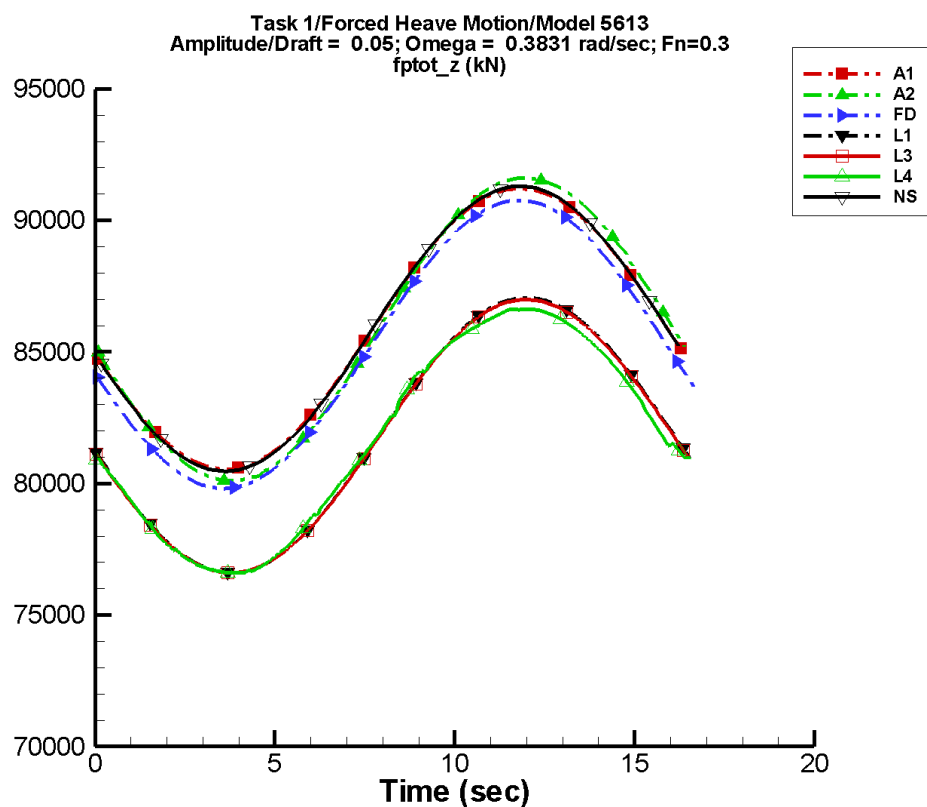
Table A–159. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.60E+04	7.45E+04	-177	178.	-156
A2	8.96E+04	6.23E+04	-178	5.25E+03	-96
FD	8.96E+04	8.17E+04	-176	4.94E+03	-87
L1	8.20E+04	9.47E+04	-180	141.	76
L3	8.61E+04	8.24E+04	-179	4.84E+03	-92
L4	8.52E+04	8.10E+04	-178	4.43E+03	-97
NF	—	—	—	—	—
NS	8.96E+04	8.42E+04	-176	3.96E+03	-82

Table A–160. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.05E+04	1.61E+05	1.04E+04	1.60E+05
A2	3.29E+04	1.55E+05	3.32E+04	1.55E+05
FD	1.49E+04	1.74E+05	1.49E+04	1.74E+05
L1	-1.29E+04	1.77E+05	-1.28E+04	1.76E+05
L3	1.06E+04	1.71E+05	1.06E+04	1.71E+05
L4	1.02E+04	1.68E+05	1.03E+04	1.68E+05
NF	—	—	—	—
NS	1.09E+04	1.76E+05	1.14E+04	1.75E+05

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

Figure A–81. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

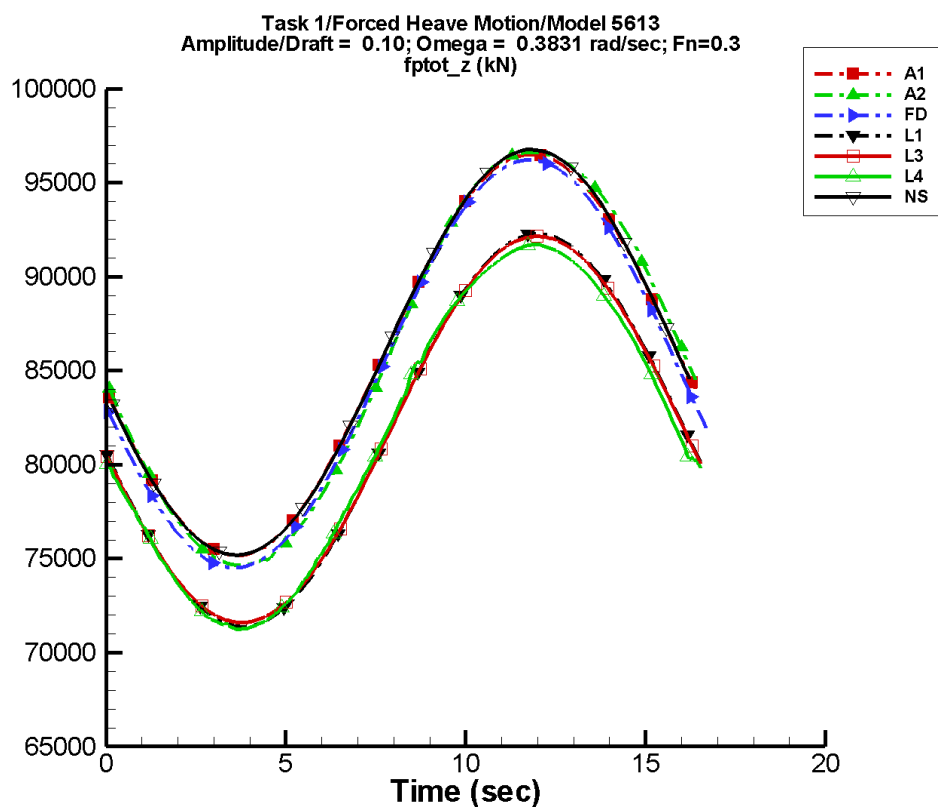
Table A-161. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.33E+03	-170	6.97	8
A2	8.59E+04	5.77E+03	-173	5.82	32
FD	8.53E+04	5.48E+03	-169	13.3	-88
L1	8.18E+04	5.23E+03	-174	2.31	60
L3	8.18E+04	5.20E+03	-173	8.29	-77
L4	8.17E+04	4.98E+03	-171	102.	77
NF	—	—	—	—	—
NS	8.59E+04	5.43E+03	-169	7.57	35

Table A-162. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.05E+04	9.12E+04	8.06E+04	9.12E+04
A2	8.01E+04	9.16E+04	8.01E+04	9.16E+04
FD	7.98E+04	9.08E+04	7.98E+04	9.07E+04
L1	7.66E+04	8.71E+04	7.66E+04	8.70E+04
L3	7.66E+04	8.70E+04	7.66E+04	8.70E+04
L4	7.66E+04	8.66E+04	7.66E+04	8.66E+04
NF	—	—	—	—
NS	8.05E+04	9.13E+04	8.05E+04	9.13E+04

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

Figure A–82. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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Table A-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/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.07E+04	-170	14.0	9
A2	8.58E+04	1.11E+04	-173	76.5	85
FD	8.53E+04	1.09E+04	-169	59.9	-88
L1	8.18E+04	1.05E+04	-174	9.26	59
L3	8.18E+04	1.03E+04	-173	46.8	-81
L4	8.17E+04	1.01E+04	-171	191.	80
NF	—	—	—	—	—
NS	8.59E+04	1.08E+04	-170	72.8	-86

Table A-164. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.52E+04	9.65E+04	7.52E+04	9.65E+04
A2	7.47E+04	9.66E+04	7.47E+04	9.66E+04
FD	7.45E+04	9.62E+04	7.46E+04	9.62E+04
L1	7.14E+04	9.23E+04	7.14E+04	9.23E+04
L3	7.16E+04	9.22E+04	7.16E+04	9.21E+04
L4	7.12E+04	9.17E+04	7.13E+04	9.17E+04
NF	—	—	—	—
NS	7.52E+04	9.68E+04	7.53E+04	9.67E+04

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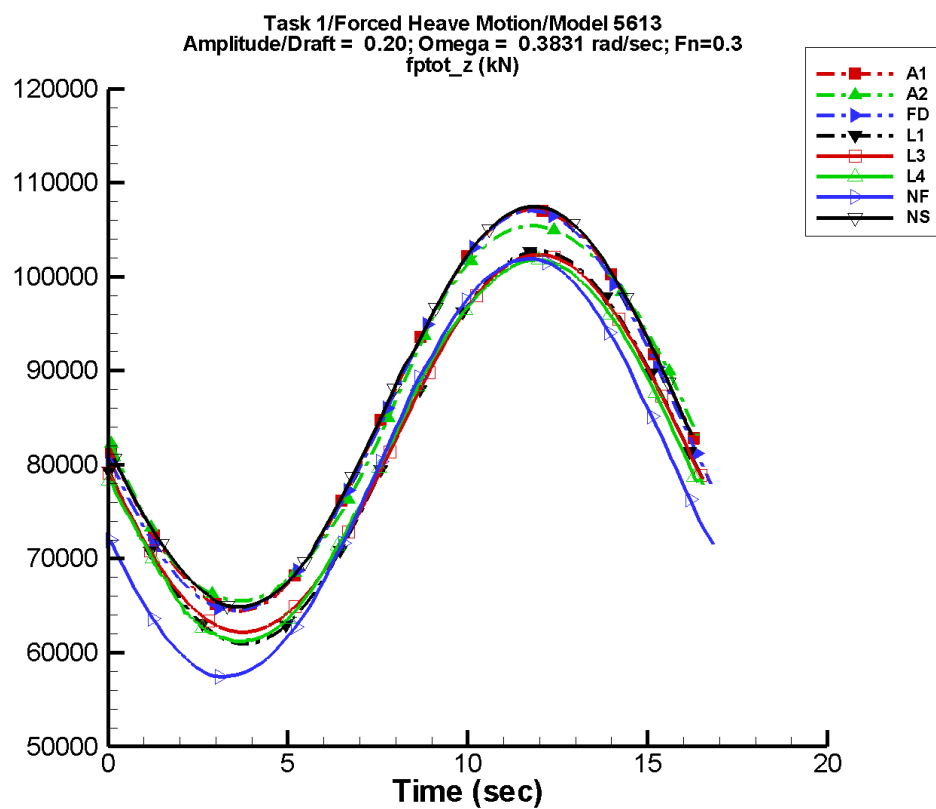


Figure A–83. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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Table A-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/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.58E+04	2.13E+04	-170	27.9	8
A2	8.56E+04	2.05E+04	-172	67.1	114
FD	8.55E+04	2.14E+04	-168	277.	-88
L1	8.19E+04	2.09E+04	-174	37.0	59
L3	8.20E+04	2.02E+04	-173	236.	-83
L4	8.16E+04	2.03E+04	-171	214.	96
NF	7.92E+04	2.11E+04	-123	1.02E+03	67
NS	8.61E+04	2.13E+04	-170	95.4	-79

Table A-166. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.45E+04	1.07E+05	6.45E+04	1.07E+05
A2	6.55E+04	1.05E+05	6.56E+04	1.05E+05
FD	6.45E+04	1.07E+05	6.46E+04	1.07E+05
L1	6.09E+04	1.03E+05	6.10E+04	1.03E+05
L3	6.22E+04	1.02E+05	6.22E+04	1.02E+05
L4	6.12E+04	1.02E+05	6.12E+04	1.02E+05
NF	5.74E+04	1.02E+05	5.76E+04	1.02E+05
NS	6.49E+04	1.07E+05	6.51E+04	1.07E+05

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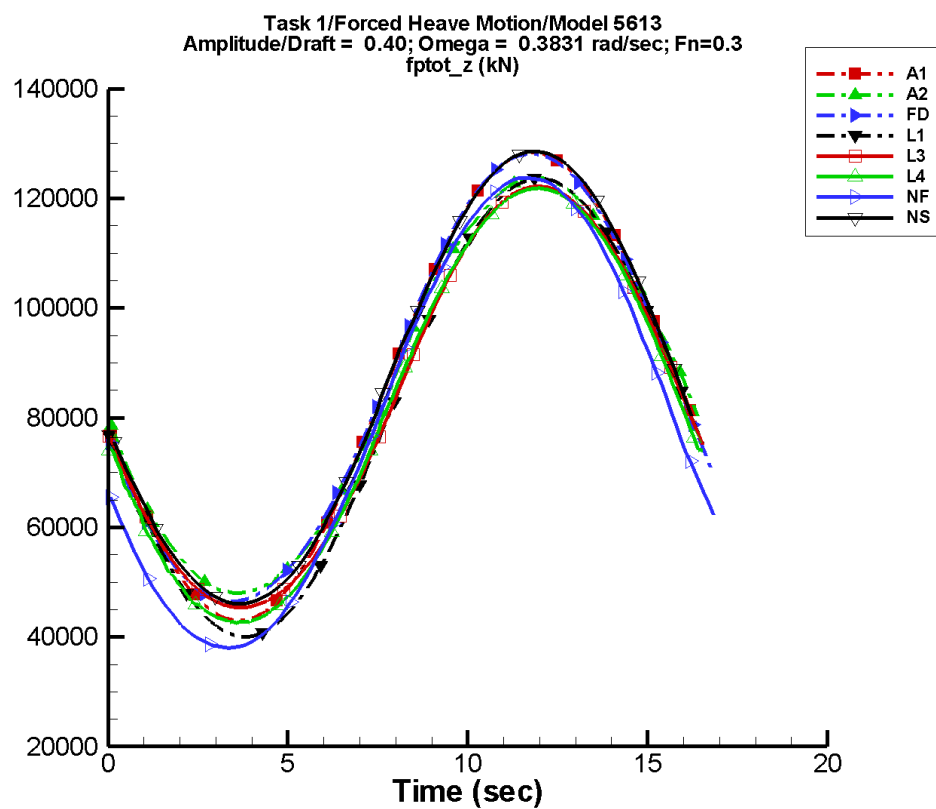


Figure A–84. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A-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/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	4.26E+04	-170	55.8	8
A2	8.56E+04	3.83E+04	-171	337.	-97
FD	8.63E+04	4.13E+04	-168	1.13E+03	-88
L1	8.19E+04	4.18E+04	-174	148.	59
L3	8.28E+04	3.89E+04	-173	972.	-83
L4	8.19E+04	4.00E+04	-171	407.	-130
NF	7.94E+04	4.14E+04	-123	2.22E+03	56
NS	8.65E+04	4.16E+04	-170	809.	-68

Table A-168. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.30E+04	1.28E+05	4.32E+04	1.28E+05
A2	4.80E+04	1.24E+05	4.82E+04	1.24E+05
FD	4.64E+04	1.28E+05	4.66E+04	1.28E+05
L1	4.00E+04	1.24E+05	4.01E+04	1.24E+05
L3	4.53E+04	1.22E+05	4.54E+04	1.22E+05
L4	4.25E+04	1.22E+05	4.27E+04	1.22E+05
NF	3.80E+04	1.24E+05	3.82E+04	1.24E+05
NS	4.60E+04	1.29E+05	4.64E+04	1.28E+05

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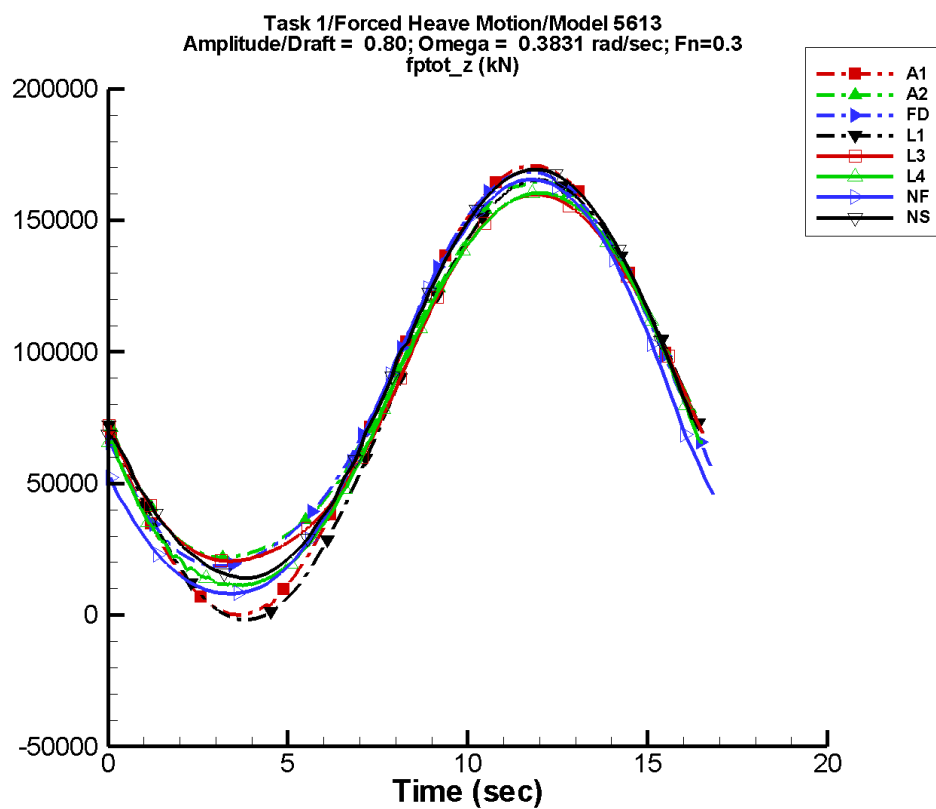


Figure A–85. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

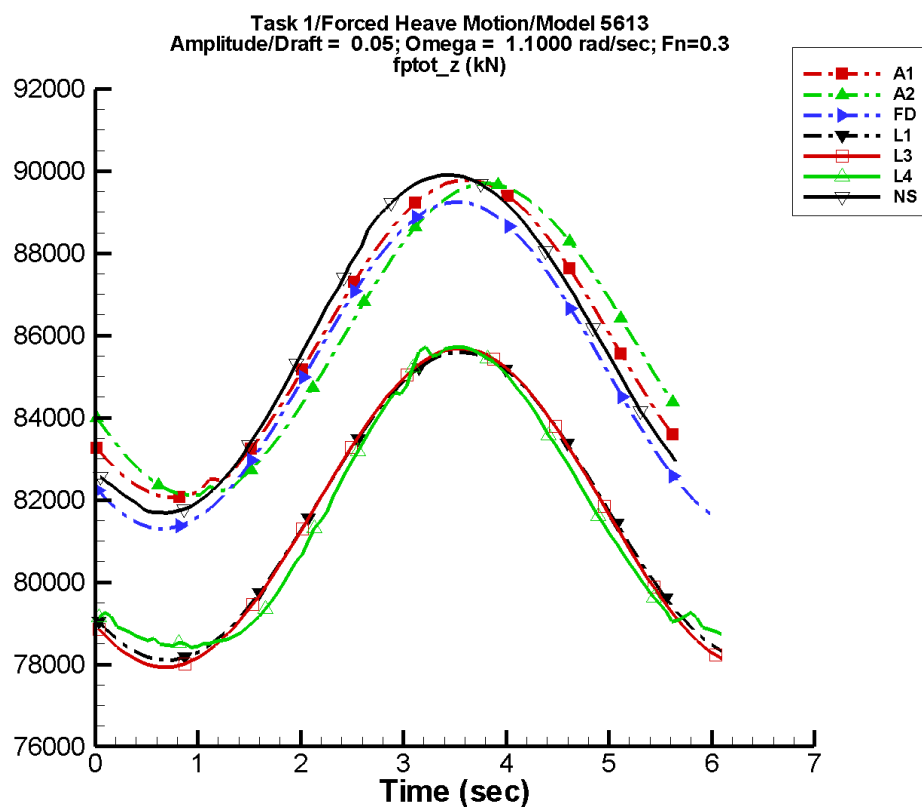
Table A–169. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.56E+04	8.53E+04	-170	112.	8
A2	8.92E+04	7.27E+04	-170	5.15E+03	-95
FD	8.96E+04	7.64E+04	-167	4.78E+03	-88
L1	8.22E+04	8.36E+04	-174	592.	59
L3	8.62E+04	7.15E+04	-172	4.16E+03	-84
L4	8.36E+04	7.66E+04	-171	2.47E+03	-109
NF	8.17E+04	7.81E+04	-124	5.67E+03	36
NS	8.89E+04	7.88E+04	-170	3.04E+03	-67

Table A–170. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	95.6	1.71E+05	444.	1.70E+05
A2	2.17E+04	1.65E+05	2.20E+04	1.64E+05
FD	1.86E+04	1.68E+05	1.88E+04	1.68E+05
L1	-1.84E+03	1.65E+05	-1.73E+03	1.65E+05
L3	2.05E+04	1.60E+05	2.06E+04	1.60E+05
L4	1.10E+04	1.60E+05	1.14E+04	1.60E+05
NF	8.19E+03	1.66E+05	8.42E+03	1.65E+05
NS	1.40E+04	1.69E+05	1.45E+04	1.69E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–86. Time history of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

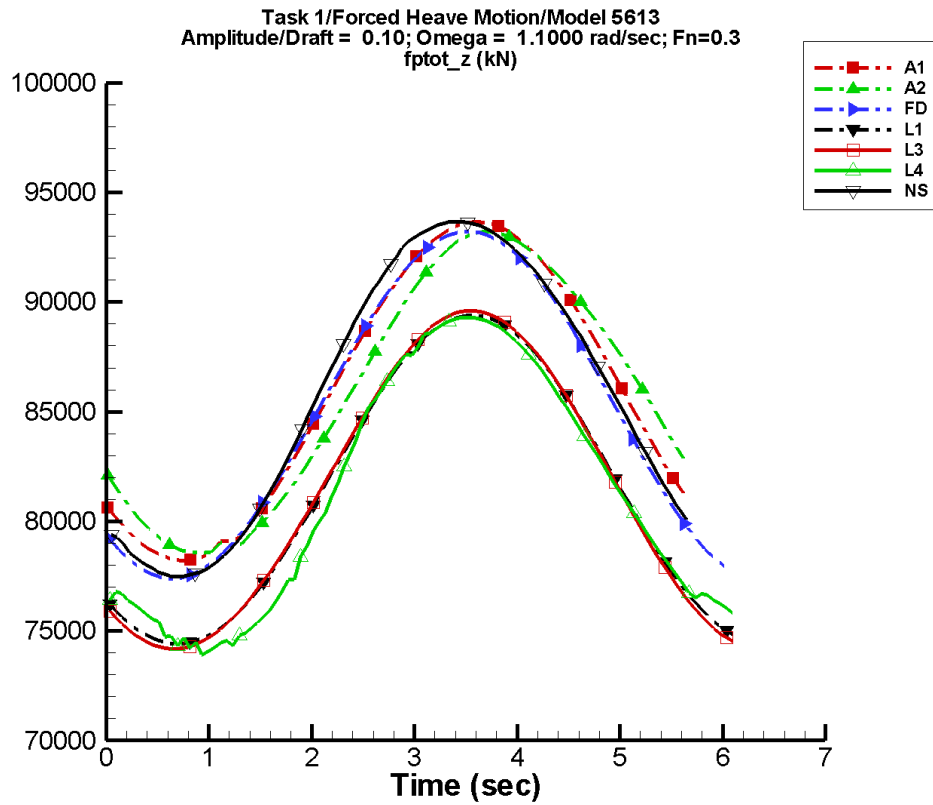
Table A-171. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	3.88E+03	-138	33.7	51
A2	8.59E+04	3.81E+03	-151	35.7	57
FD	8.53E+04	3.97E+03	-132	14.5	-90
L1	8.18E+04	3.74E+03	-134	31.3	-10
L3	8.18E+04	3.87E+03	-134	37.6	-29
L4	8.17E+04	3.66E+03	-135	485.	21
NF	—	—	—	—	—
NS	8.58E+04	4.13E+03	-130	112.	105

Table A-172. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.16E+04	8.98E+04	8.22E+04	8.97E+04
A2	8.18E+04	8.97E+04	8.21E+04	8.96E+04
FD	8.13E+04	8.92E+04	8.14E+04	8.91E+04
L1	7.81E+04	8.56E+04	7.81E+04	8.55E+04
L3	7.79E+04	8.57E+04	7.80E+04	8.56E+04
L4	7.84E+04	8.57E+04	7.85E+04	8.57E+04
NF	—	—	—	—
NS	8.17E+04	8.99E+04	8.17E+04	8.99E+04

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

Figure A-87. Time history of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Table A-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/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	7.76E+03	-138	67.5	51
A2	8.58E+04	7.30E+03	-149	142.	71
FD	8.53E+04	7.89E+03	-132	65.5	-89
L1	8.18E+04	7.49E+03	-134	125.	-10
L3	8.18E+04	7.69E+03	-133	157.	-34
L4	8.15E+04	7.51E+03	-138	853.	55
NF	—	—	—	—	—
NS	8.57E+04	8.15E+03	-131	344.	120

Table A-174. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.74E+04	9.37E+04	7.84E+04	9.34E+04
A2	7.79E+04	9.32E+04	7.86E+04	9.29E+04
FD	7.74E+04	9.32E+04	7.76E+04	9.30E+04
L1	7.44E+04	8.94E+04	7.45E+04	8.93E+04
L3	7.42E+04	8.96E+04	7.43E+04	8.95E+04
L4	7.39E+04	8.93E+04	7.42E+04	8.92E+04
NF	—	—	—	—
NS	7.75E+04	9.37E+04	7.76E+04	9.36E+04

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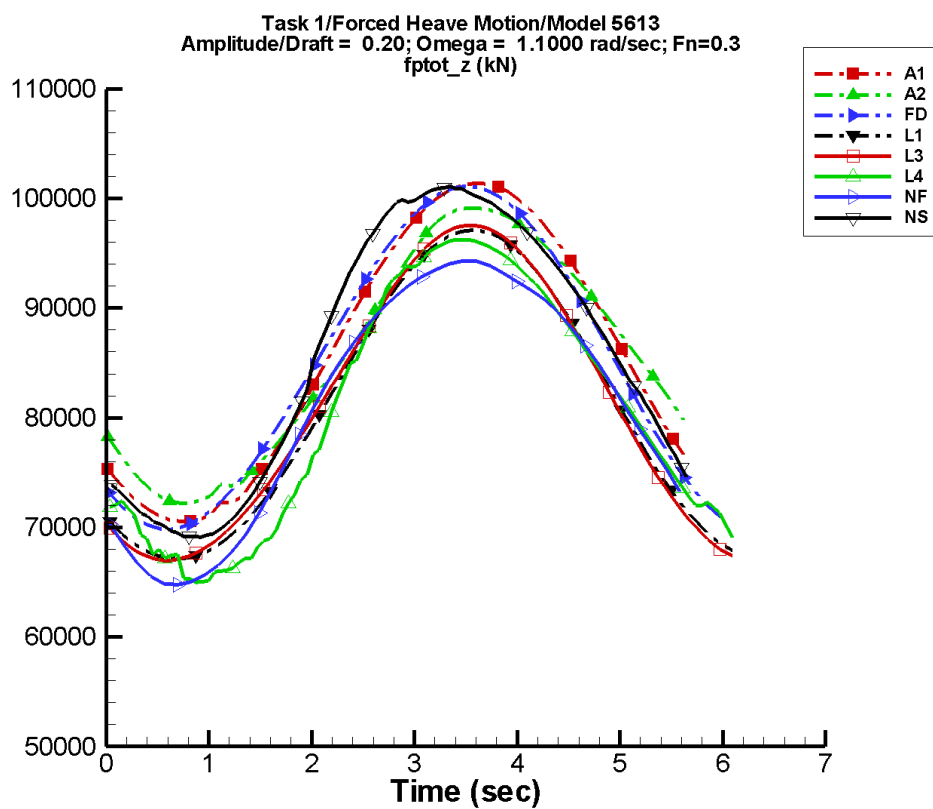


Figure A–88. Time history of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A-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/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.55E+04	-138	135.	51
A2	8.56E+04	1.32E+04	-144	208.	79
FD	8.55E+04	1.55E+04	-131	301.	-89
L1	8.16E+04	1.50E+04	-134	501.	-10
L3	8.18E+04	1.51E+04	-132	652.	-38
L4	8.10E+04	1.52E+04	-140	1.99E+03	79
NF	8.09E+04	1.48E+04	-158	1.43E+03	120
NS	8.56E+04	1.61E+04	-131	1.76E+03	117

Table A-176. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.88E+04	1.01E+05	7.09E+04	1.01E+05
A2	7.05E+04	9.91E+04	7.25E+04	9.87E+04
FD	6.98E+04	1.01E+05	7.03E+04	1.01E+05
L1	6.71E+04	9.71E+04	6.73E+04	9.69E+04
L3	6.70E+04	9.75E+04	6.71E+04	9.73E+04
L4	6.48E+04	9.62E+04	6.55E+04	9.60E+04
NF	6.43E+04	9.61E+04	6.56E+04	9.58E+04
NS	6.91E+04	1.01E+05	6.93E+04	1.01E+05

TASK 1/HEAVE MOTION/MODEL 5613

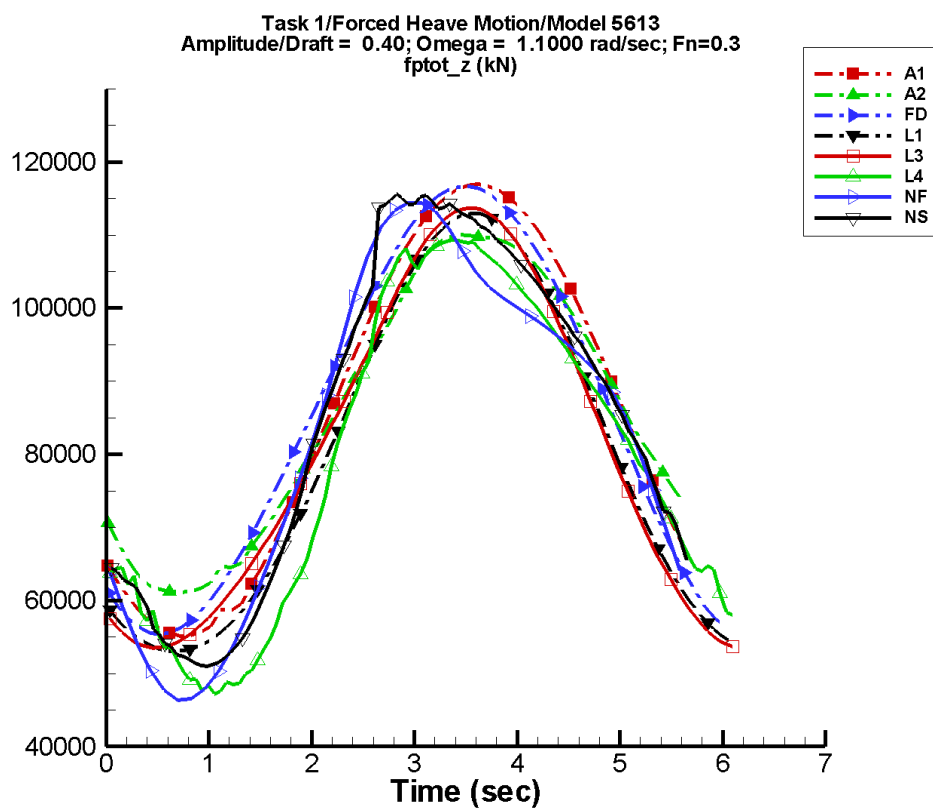


Figure A–89. Time history of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.58E+04	3.10E+04	-138	270.	51
A2	8.56E+04	2.45E+04	-140	54.2	-68
FD	8.63E+04	3.01E+04	-128	1.23E+03	-89
L1	8.10E+04	3.00E+04	-134	2.00E+03	-10
L3	8.20E+04	2.93E+04	-130	2.62E+03	-39
L4	8.00E+04	2.97E+04	-142	5.86E+03	86
NF	8.08E+04	2.93E+04	-155	6.46E+03	112
NS	8.44E+04	3.11E+04	-134	5.43E+03	108

Table A–178. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	5.18E+04	1.17E+05	5.59E+04	1.16E+05
A2	5.77E+04	1.10E+05	6.16E+04	1.10E+05
FD	5.54E+04	1.17E+05	5.65E+04	1.16E+05
L1	5.30E+04	1.13E+05	5.33E+04	1.13E+05
L3	5.35E+04	1.14E+05	5.38E+04	1.13E+05
L4	4.72E+04	1.09E+05	4.82E+04	1.09E+05
NF	4.49E+04	1.14E+05	4.75E+04	1.11E+05
NS	5.06E+04	1.16E+05	5.10E+04	1.15E+05

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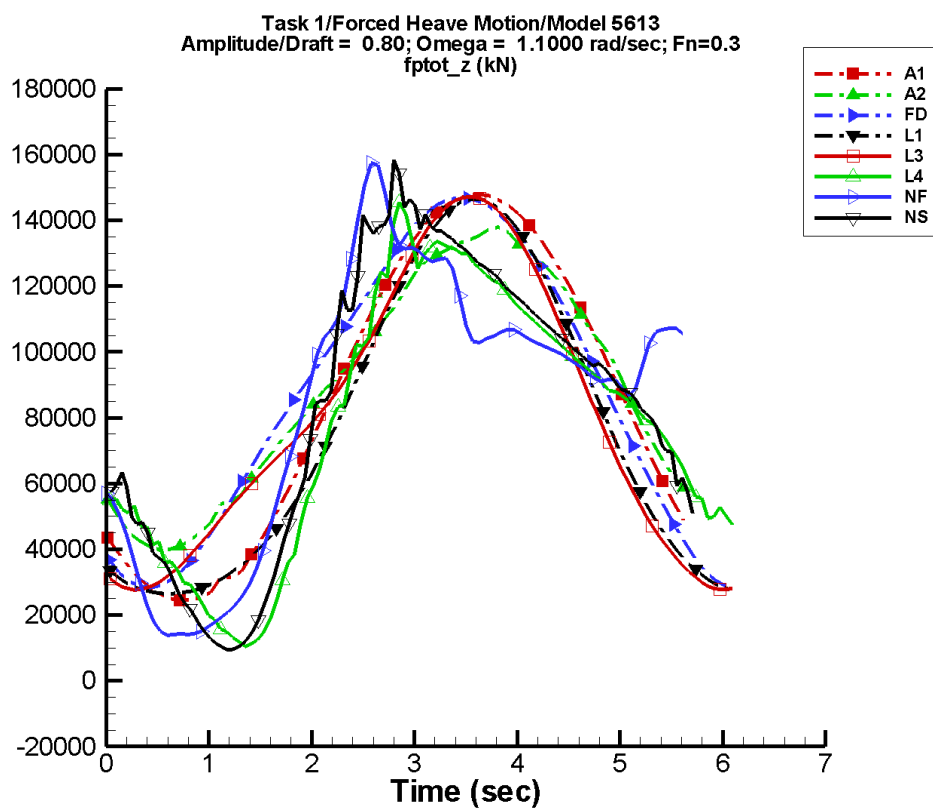


Figure A-90. Time history of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

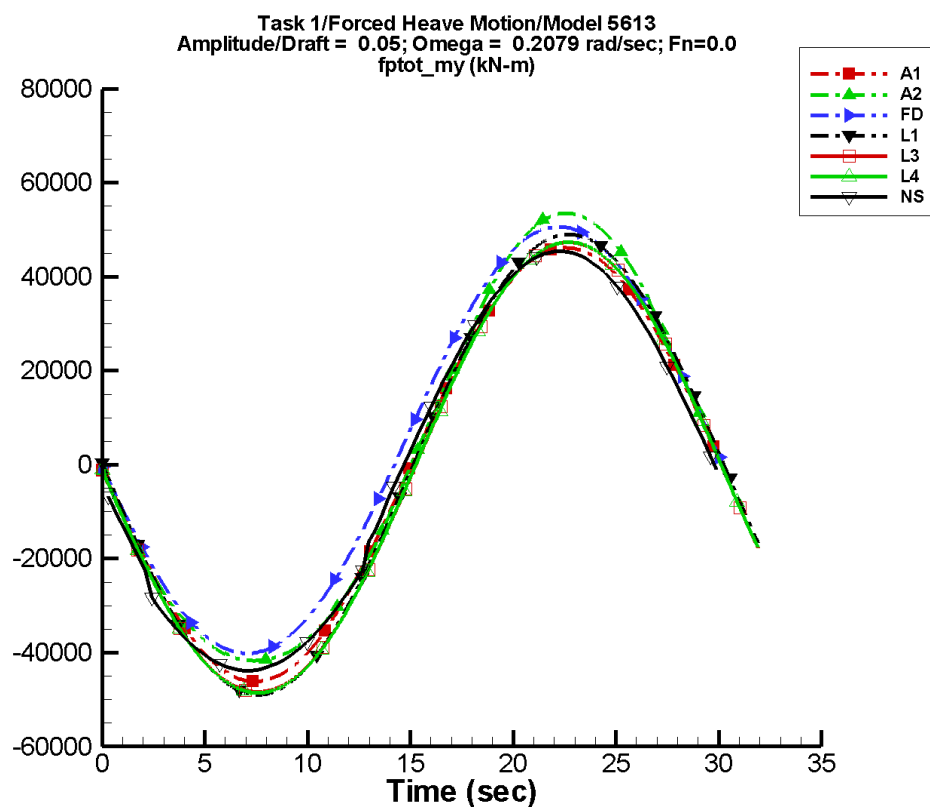
Table A–179. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	6.21E+04	-138	540.	51
A2	8.93E+04	4.63E+04	-136	4.53E+03	-103
FD	8.96E+04	5.65E+04	-123	5.19E+03	-89
L1	7.87E+04	5.99E+04	-134	8.01E+03	-10
L3	8.27E+04	5.52E+04	-124	1.06E+04	-40
L4	7.90E+04	5.33E+04	-143	1.89E+04	86
NF	8.29E+04	4.37E+04	-153	2.64E+04	115
NS	8.34E+04	5.70E+04	-136	2.16E+04	107

Table A–180. Minimum and maximum of F_z^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.76E+04	1.48E+05	2.59E+04	1.46E+05
A2	3.39E+04	1.38E+05	4.25E+04	1.35E+05
FD	2.83E+04	1.47E+05	3.11E+04	1.45E+05
L1	2.65E+04	1.46E+05	2.67E+04	1.45E+05
L3	2.77E+04	1.47E+05	2.87E+04	1.46E+05
L4	1.05E+04	1.47E+05	1.32E+04	1.39E+05
NF	1.23E+04	1.57E+05	1.44E+04	1.44E+05
NS	9.00E+03	1.60E+05	1.03E+04	1.47E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-91. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $Fn = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

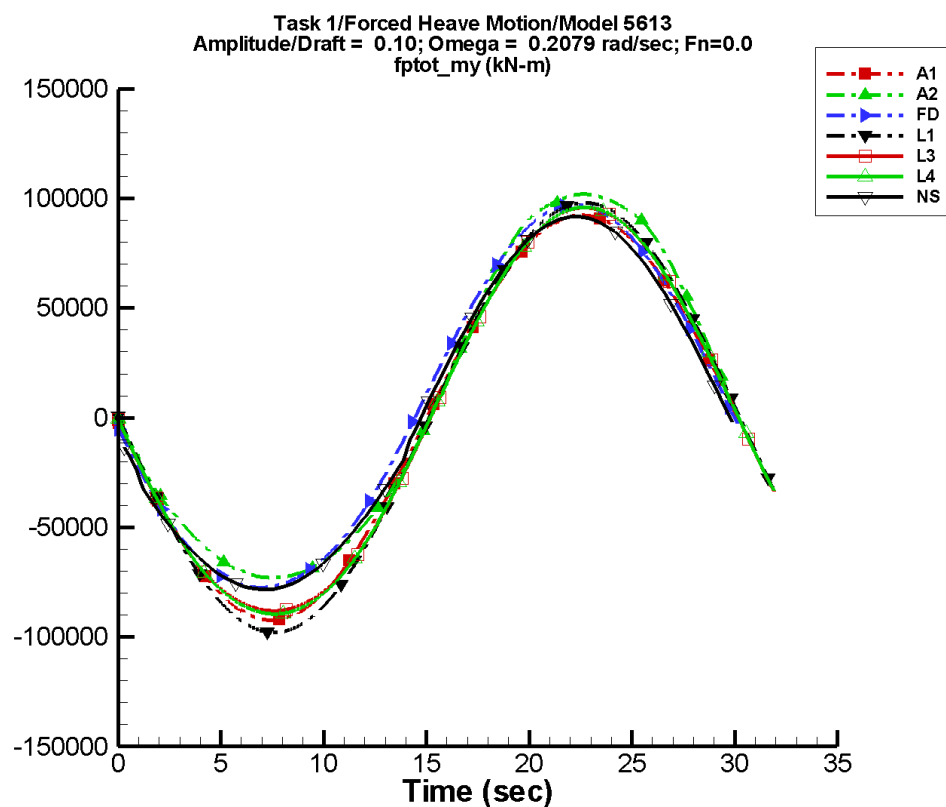
Table A–181. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.790	4.62E+04	-179	2.37	171
A2	2.75E+03	4.80E+04	-179	3.21E+03	-91
FD	4.69E+03	4.56E+04	-175	549.	-88
L1	4.46	4.90E+04	180	4.67	73
L3	-957.	4.80E+04	180	453.	-92
L4	-981.	4.81E+04	180	389.	-91
NF	—	—	—	—	—
NS	-66.5	4.54E+04	-175	553.	-69

Table A–182. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.62E+04	4.62E+04	-4.63E+04	4.61E+04
A2	-4.17E+04	5.35E+04	-4.18E+04	5.35E+04
FD	-4.02E+04	5.06E+04	-4.01E+04	5.07E+04
L1	-4.90E+04	4.90E+04	-4.90E+04	4.90E+04
L3	-4.84E+04	4.73E+04	-4.83E+04	4.73E+04
L4	-4.86E+04	4.74E+04	-4.86E+04	4.73E+04
NF	—	—	—	—
NS	-4.38E+04	4.56E+04	-4.35E+04	4.51E+04

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

Figure A-92. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

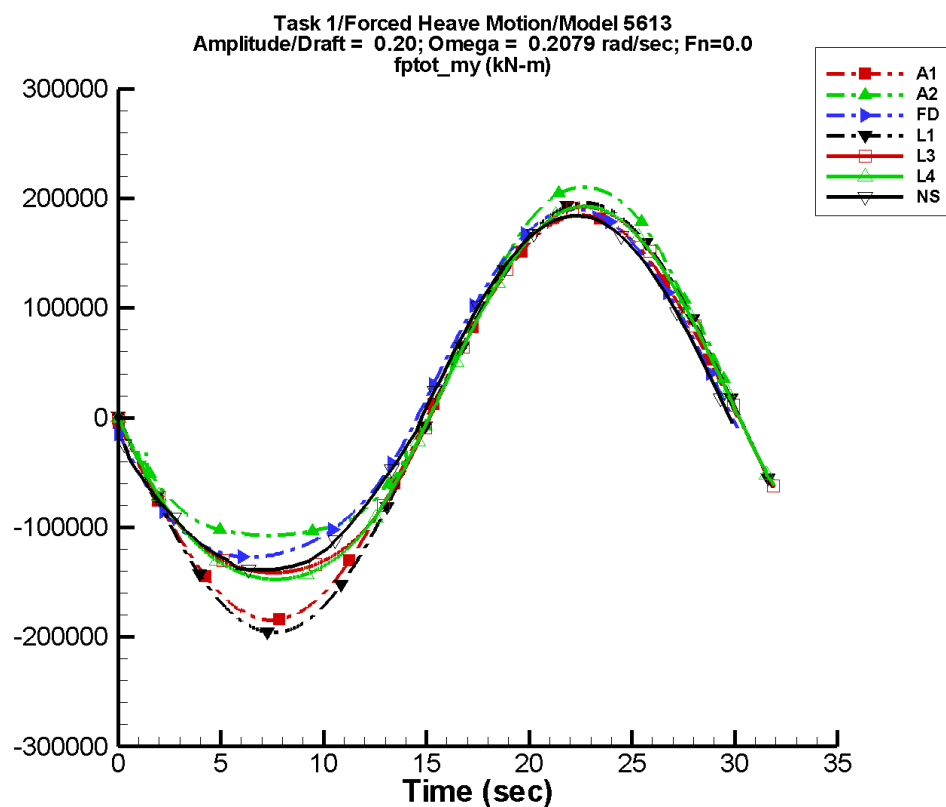
Table A–183. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.58	9.24E+04	-179	4.74	171
A2	8.68E+03	9.03E+04	180	7.80E+03	-93
FD	6.79E+03	8.84E+04	-174	3.05E+03	-88
L1	17.7	9.80E+04	180	18.6	73
L3	948.	9.32E+04	180	2.91E+03	-92
L4	783.	9.36E+04	180	2.46E+03	-91
NF	—	—	—	—	—
NS	3.04E+03	8.61E+04	-175	4.00E+03	-83

Table A–184. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.24E+04	9.23E+04	-9.25E+04	9.22E+04
A2	-7.30E+04	1.02E+05	-7.31E+04	1.02E+05
FD	-7.75E+04	9.72E+04	-7.74E+04	9.73E+04
L1	-9.80E+04	9.80E+04	-9.80E+04	9.80E+04
L3	-8.81E+04	9.58E+04	-8.81E+04	9.58E+04
L4	-8.95E+04	9.60E+04	-8.95E+04	9.59E+04
NF	—	—	—	—
NS	-7.84E+04	9.20E+04	-7.77E+04	9.11E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-93. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $Fn = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

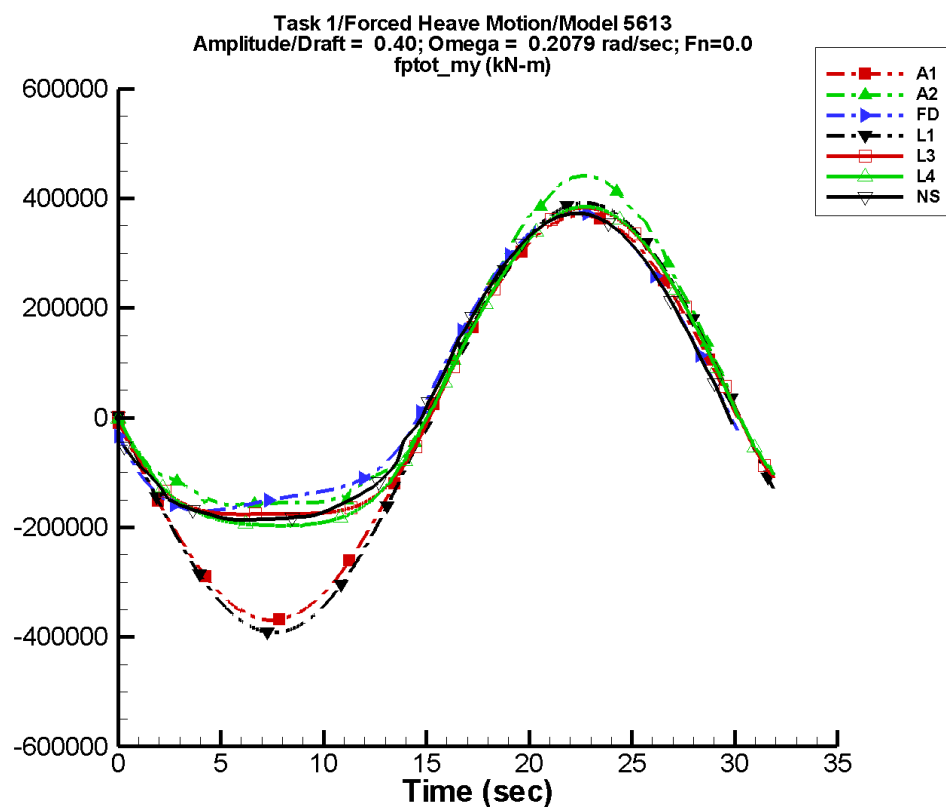
Table A–185. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.16	1.85E+05	-179	9.47	171
A2	2.72E+04	1.65E+05	180	2.61E+04	-93
FD	1.74E+04	1.63E+05	-174	1.50E+04	-88
L1	70.9	1.96E+05	180	74.6	73
L3	1.12E+04	1.72E+05	180	1.50E+04	-92
L4	1.04E+04	1.74E+05	180	1.28E+04	-91
NF	—	—	—	—	—
NS	1.17E+04	1.64E+05	-175	1.17E+04	-81

Table A–186. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.85E+05	1.85E+05	-1.85E+05	1.84E+05
A2	-1.08E+05	2.10E+05	-1.08E+05	2.10E+05
FD	-1.27E+05	1.90E+05	-1.27E+05	1.90E+05
L1	-1.96E+05	1.96E+05	-1.96E+05	1.96E+05
L3	-1.41E+05	1.92E+05	-1.41E+05	1.92E+05
L4	-1.47E+05	1.93E+05	-1.47E+05	1.93E+05
NF	—	—	—	—
NS	-1.39E+05	1.85E+05	-1.38E+05	1.83E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-94. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

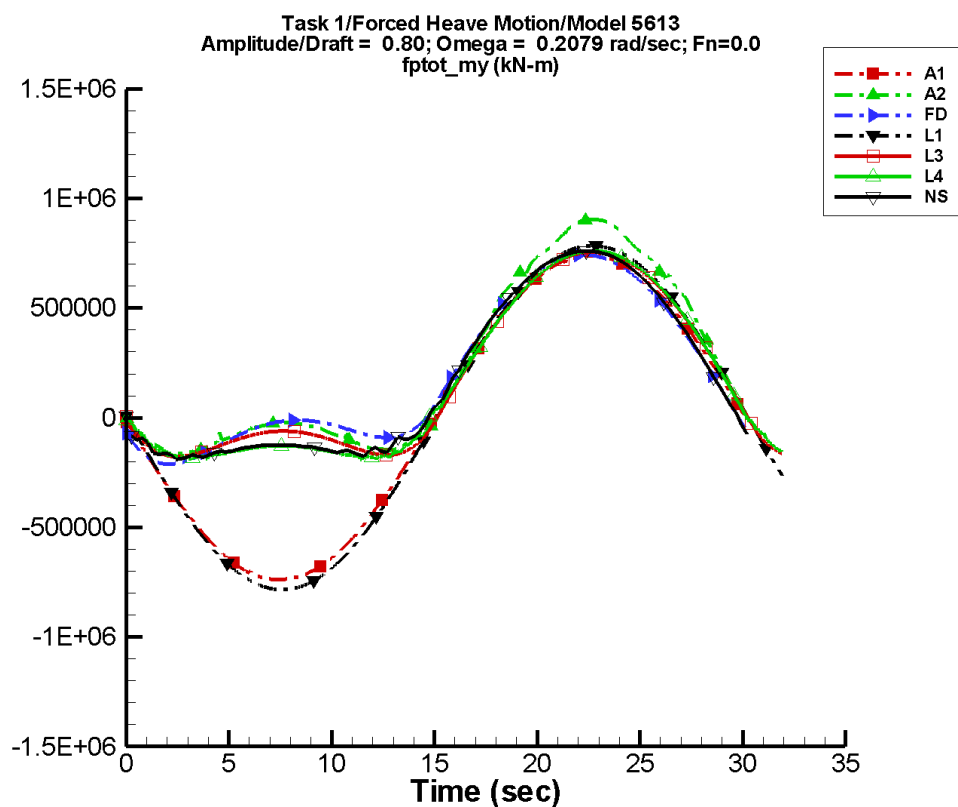
Table A–187. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.31	3.70E+05	-179	18.9	171
A2	7.68E+04	3.05E+05	180	6.85E+04	-92
FD	5.80E+04	2.79E+05	-172	5.73E+04	-88
L1	283.	3.92E+05	180	298.	73
L3	5.13E+04	2.95E+05	180	5.71E+04	-92
L4	4.84E+04	3.03E+05	180	4.91E+04	-91
NF	—	—	—	—	—
NS	4.88E+04	2.91E+05	-175	4.71E+04	-83

Table A–188. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.69E+05	3.69E+05	-3.70E+05	3.69E+05
A2	-1.60E+05	4.41E+05	-1.59E+05	4.41E+05
FD	-1.70E+05	3.75E+05	-1.70E+05	3.76E+05
L1	-3.92E+05	3.92E+05	-3.92E+05	3.92E+05
L3	-1.76E+05	3.83E+05	-1.76E+05	3.83E+05
L4	-1.97E+05	3.85E+05	-1.97E+05	3.85E+05
NF	—	—	—	—
NS	-1.87E+05	3.74E+05	-1.86E+05	3.70E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-95. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

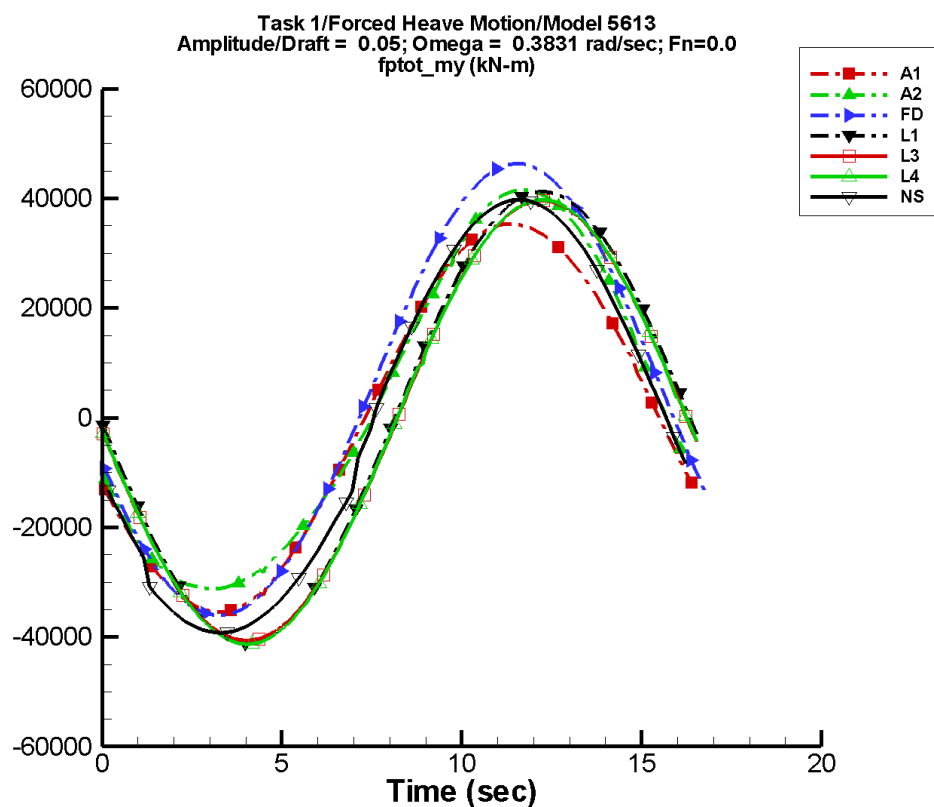
Table A–189. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-12.6	7.39E+05	-179	37.9	171
A2	2.33E+05	4.93E+05	-179	2.14E+05	-93
FD	1.91E+05	4.25E+05	-170	1.86E+05	-88
L1	1.13E+03	7.84E+05	180	1.19E+03	73
L3	1.82E+05	4.49E+05	-180	1.83E+05	-92
L4	1.73E+05	4.77E+05	-180	1.57E+05	-92
NF	—	—	—	—	—
NS	1.74E+05	4.72E+05	-175	1.54E+05	-83

Table A–190. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.39E+05	7.39E+05	-7.40E+05	7.38E+05
A2	-1.66E+05	9.05E+05	-1.64E+05	9.04E+05
FD	-2.12E+05	7.44E+05	-2.11E+05	7.45E+05
L1	-7.84E+05	7.84E+05	-7.84E+05	7.84E+05
L3	-1.77E+05	7.56E+05	-1.77E+05	7.55E+05
L4	-1.90E+05	7.61E+05	-1.83E+05	7.61E+05
NF	—	—	—	—
NS	-1.91E+05	7.60E+05	-1.79E+05	7.55E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-96. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $Fn = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

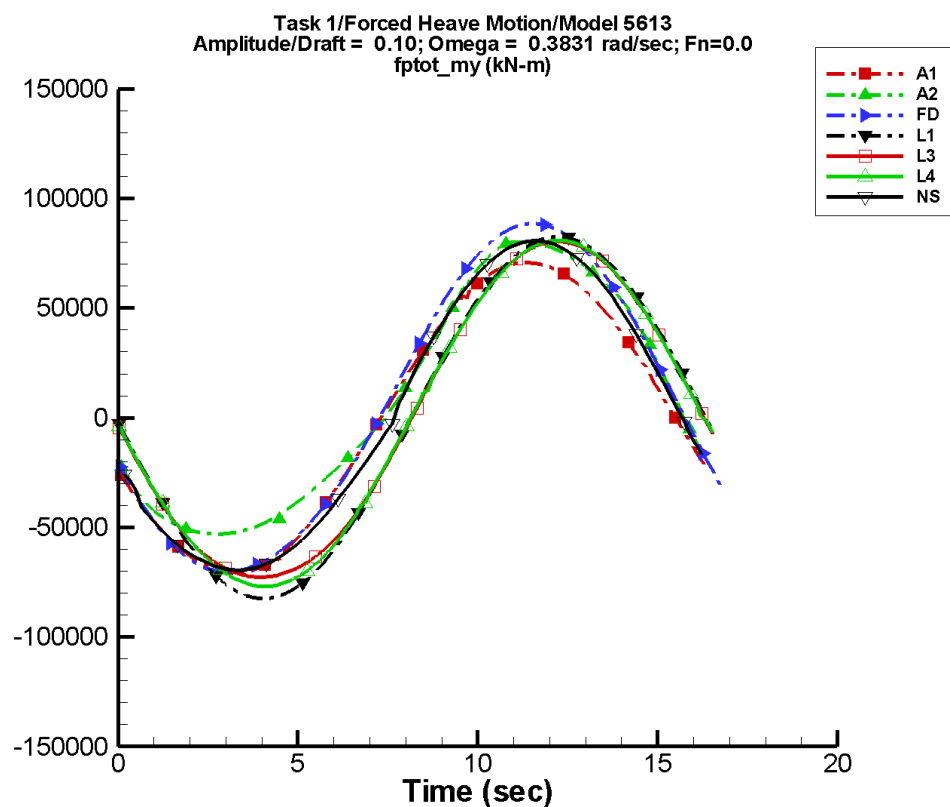
Table A–191. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.98	3.54E+04	-160	58.8	30
A2	2.74E+03	3.64E+04	-164	3.18E+03	-94
FD	4.69E+03	4.13E+04	-163	539.	-89
L1	11.6	4.12E+04	-179	14.1	69
L3	-956.	4.03E+04	-178	420.	-89
L4	-1.03E+03	4.05E+04	-178	236.	-88
NF	—	—	—	—	—
NS	-449.	4.02E+04	-165	656.	-28

Table A–192. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.64E+04	3.53E+04	-3.54E+04	3.52E+04
A2	-3.20E+04	4.15E+04	-3.12E+04	4.14E+04
FD	-3.61E+04	4.64E+04	-3.59E+04	4.62E+04
L1	-4.12E+04	4.12E+04	-4.12E+04	4.12E+04
L3	-4.06E+04	3.96E+04	-4.06E+04	3.95E+04
L4	-4.13E+04	3.97E+04	-4.13E+04	3.97E+04
NF	—	—	—	—
NS	-3.92E+04	3.98E+04	-3.89E+04	3.95E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-97. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

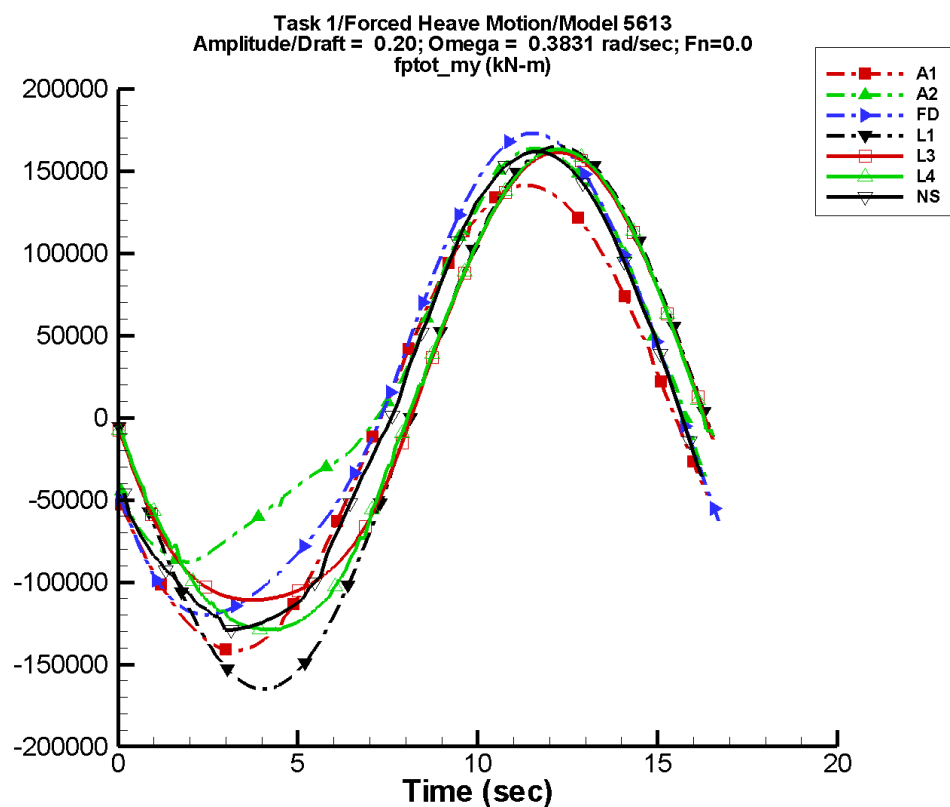
Table A–193. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-18.0	7.08E+04	-160	118.	30
A2	8.66E+03	6.76E+04	-163	7.74E+03	-94
FD	6.78E+03	8.00E+04	-162	2.99E+03	-88
L1	46.5	8.25E+04	-179	56.3	69
L3	942.	7.76E+04	-178	2.69E+03	-89
L4	411.	7.93E+04	-178	1.47E+03	-79
NF	—	—	—	—	—
NS	2.24E+03	7.60E+04	-165	3.80E+03	-72

Table A–194. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.28E+04	7.07E+04	-7.07E+04	7.04E+04
A2	-5.40E+04	8.02E+04	-5.30E+04	8.00E+04
FD	-7.03E+04	8.86E+04	-7.01E+04	8.83E+04
L1	-8.25E+04	8.25E+04	-8.24E+04	8.24E+04
L3	-7.27E+04	8.04E+04	-7.26E+04	8.03E+04
L4	-7.70E+04	8.09E+04	-7.69E+04	8.08E+04
NF	—	—	—	—
NS	-6.95E+04	8.09E+04	-6.90E+04	8.00E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-98. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

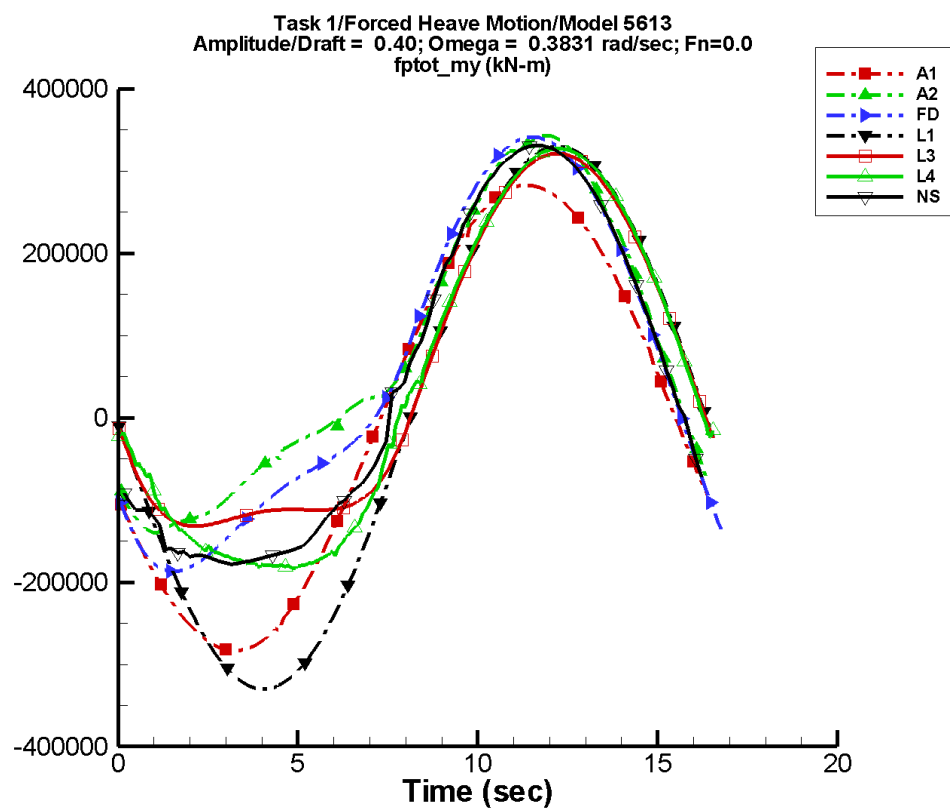
Table A–195. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-35.9	1.42E+05	-160	235.	30
A2	2.71E+04	1.20E+05	-160	2.62E+04	-95
FD	1.73E+04	1.47E+05	-160	1.47E+04	-88
L1	186.	1.65E+05	-179	225.	69
L3	1.11E+04	1.41E+05	-178	1.41E+04	-89
L4	8.63E+03	1.48E+05	-178	7.97E+03	-78
NF	—	—	—	—	—
NS	8.51E+03	1.46E+05	-165	9.62E+03	-63

Table A–196. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.46E+05	1.41E+05	-1.41E+05	1.41E+05
A2	-8.77E+04	1.64E+05	-8.70E+04	1.63E+05
FD	-1.20E+05	1.73E+05	-1.19E+05	1.72E+05
L1	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L3	-1.11E+05	1.61E+05	-1.11E+05	1.61E+05
L4	-1.29E+05	1.63E+05	-1.29E+05	1.63E+05
NF	—	—	—	—
NS	-1.29E+05	1.62E+05	-1.27E+05	1.60E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-99. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

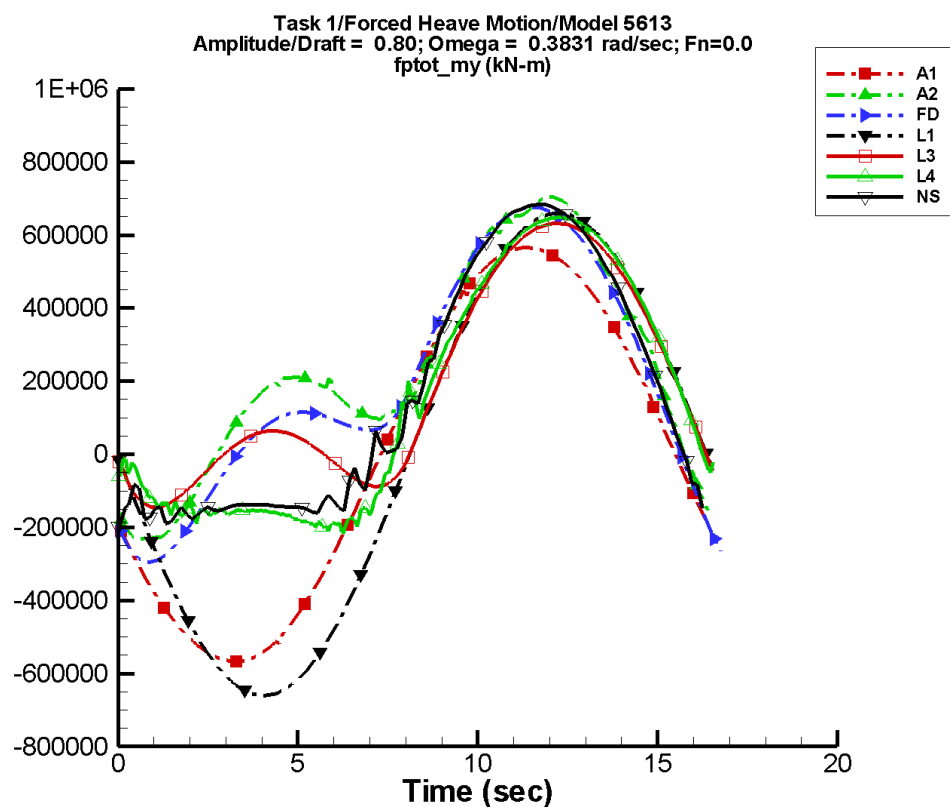
Table A–197. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-71.8	2.83E+05	-160	470.	30
A2	7.68E+04	2.18E+05	-158	6.83E+04	-94
FD	5.79E+04	2.50E+05	-157	5.61E+04	-89
L1	745.	3.30E+05	-179	901.	69
L3	5.09E+04	2.32E+05	-177	5.42E+04	-90
L4	4.13E+04	2.61E+05	-178	3.12E+04	-77
NF	—	—	—	—	—
NS	4.03E+04	2.61E+05	-165	4.14E+04	-67

Table A–198. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.91E+05	2.83E+05	-2.83E+05	2.82E+05
A2	-1.40E+05	3.43E+05	-1.37E+05	3.41E+05
FD	-1.87E+05	3.41E+05	-1.86E+05	3.40E+05
L1	-3.30E+05	3.30E+05	-3.30E+05	3.29E+05
L3	-1.32E+05	3.21E+05	-1.31E+05	3.21E+05
L4	-1.84E+05	3.27E+05	-1.82E+05	3.27E+05
NF	—	—	—	—
NS	-1.78E+05	3.32E+05	-1.75E+05	3.28E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-100. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

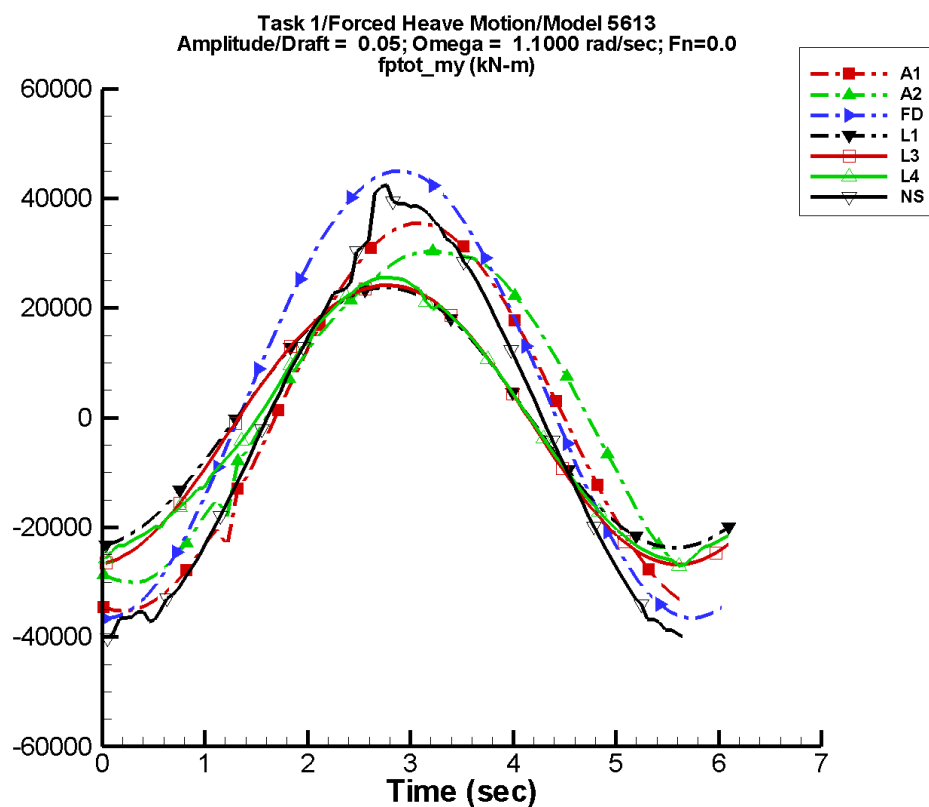
Table A–199. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-144.	5.67E+05	-160	940.	30
A2	2.33E+05	3.35E+05	-149	2.14E+05	-95
FD	1.91E+05	3.80E+05	-148	1.82E+05	-89
L1	2.98E+03	6.60E+05	-179	3.61E+03	70
L3	1.82E+05	3.24E+05	-174	1.75E+05	-90
L4	1.47E+05	4.28E+05	-176	9.70E+04	-77
NF	—	—	—	—	—
NS	1.52E+05	4.31E+05	-165	1.31E+05	-69

Table A–200. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.83E+05	5.66E+05	-5.66E+05	5.64E+05
A2	-2.34E+05	7.05E+05	-2.30E+05	6.98E+05
FD	-2.95E+05	6.76E+05	-2.90E+05	6.73E+05
L1	-6.60E+05	6.60E+05	-6.59E+05	6.59E+05
L3	-1.45E+05	6.32E+05	-1.44E+05	6.31E+05
L4	-2.16E+05	6.48E+05	-1.97E+05	6.47E+05
NF	—	—	—	—
NS	-1.98E+05	6.84E+05	-1.67E+05	6.79E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-101. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

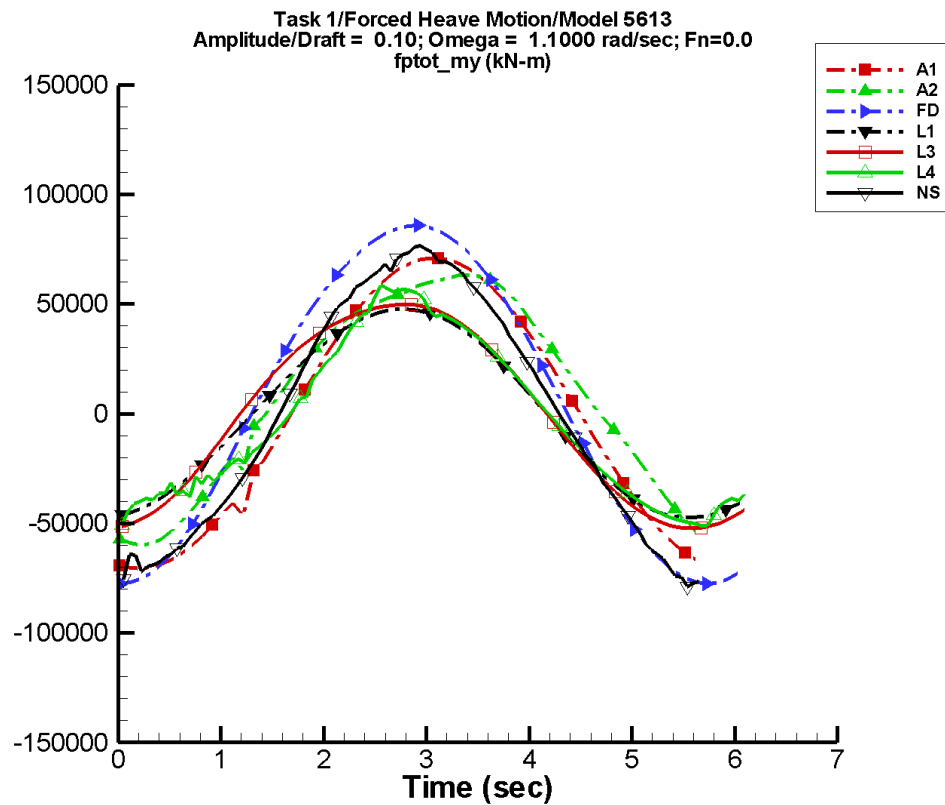
Table A–201. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-419.	3.54E+04	-105	810.	80
A2	2.33E+03	3.02E+04	-110	2.38E+03	-104
FD	4.69E+03	4.08E+04	-92	564.	-90
L1	16.5	2.37E+04	-83	266.	18
L3	-949.	2.56E+04	-83	468.	-57
L4	-1.27E+03	2.50E+04	-87	1.58E+03	82
NF	—	—	—	—	—
NS	-2.43E+03	3.83E+04	-96	2.04E+03	58

Table A–202. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.56E+04	3.55E+04	-3.51E+04	3.43E+04
A2	-3.09E+04	3.04E+04	-2.95E+04	2.98E+04
FD	-3.66E+04	4.50E+04	-3.69E+04	4.56E+04
L1	-2.37E+04	2.38E+04	-2.34E+04	2.39E+04
L3	-2.68E+04	2.41E+04	-2.65E+04	2.44E+04
L4	-2.71E+04	2.55E+04	-2.58E+04	2.57E+04
NF	—	—	—	—
NS	-4.08E+04	4.26E+04	-3.97E+04	3.98E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-102. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

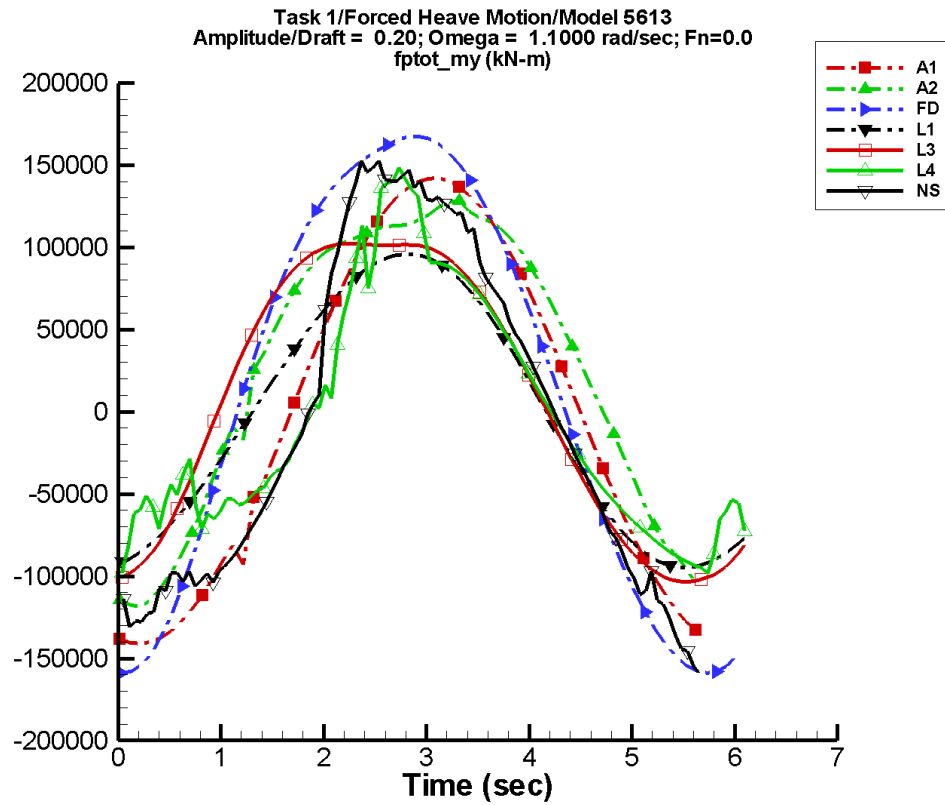
Table A–203. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-838.	7.09E+04	-105	1.62E+03	80
A2	7.82E+03	5.96E+04	-105	6.17E+03	-104
FD	6.78E+03	8.16E+04	-90	3.16E+03	-90
L1	65.7	4.75E+04	-83	1.06E+03	18
L3	974.	5.18E+04	-80	2.79E+03	-72
L4	-1.92E+03	4.90E+04	-91	7.79E+03	78
NF	—	—	—	—	—
NS	-2.35E+03	7.34E+04	-94	2.41E+03	93

Table A–204. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.12E+04	7.09E+04	-7.02E+04	6.87E+04
A2	-6.00E+04	6.34E+04	-5.89E+04	6.15E+04
FD	-7.75E+04	8.58E+04	-7.79E+04	8.70E+04
L1	-4.74E+04	4.76E+04	-4.69E+04	4.80E+04
L3	-5.22E+04	4.98E+04	-5.17E+04	5.03E+04
L4	-5.09E+04	5.86E+04	-4.88E+04	5.65E+04
NF	—	—	—	—
NS	-7.95E+04	7.67E+04	-7.61E+04	7.35E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-103. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

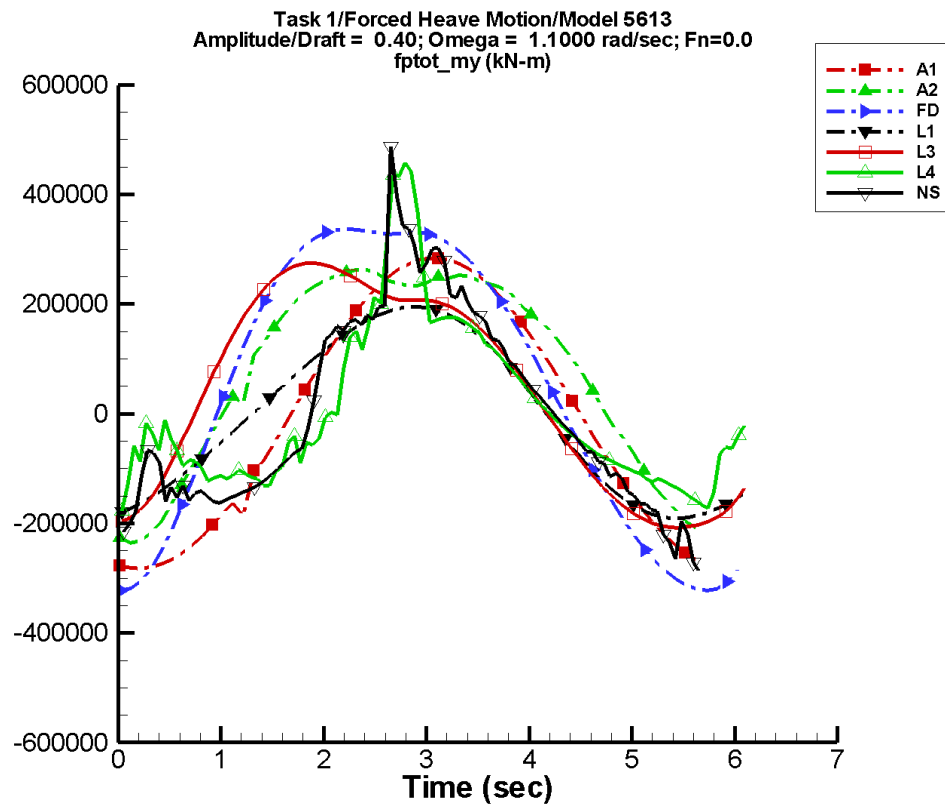
Table A–205. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.68E+03	1.42E+05	-105	3.24E+03	80
A2	2.54E+04	1.18E+05	-98	2.28E+04	-104
FD	1.73E+04	1.64E+05	-85	1.56E+04	-90
L1	262.	9.50E+04	-83	4.21E+03	18
L3	1.12E+04	1.08E+05	-72	1.44E+04	-78
L4	-870.	9.50E+04	-96	3.10E+04	72
NF	—	—	—	—	—
NS	-9.81E+03	1.37E+05	-96	2.03E+04	94

Table A–206. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.42E+05	1.42E+05	-1.40E+05	1.37E+05
A2	-1.19E+05	1.29E+05	-1.17E+05	1.22E+05
FD	-1.59E+05	1.67E+05	-1.59E+05	1.70E+05
L1	-9.48E+04	9.58E+04	-9.37E+04	9.68E+04
L3	-1.03E+05	1.02E+05	-1.02E+05	1.03E+05
L4	-9.86E+04	1.49E+05	-8.96E+04	1.38E+05
NF	—	—	—	—
NS	-1.59E+05	1.53E+05	-1.53E+05	1.47E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-104. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

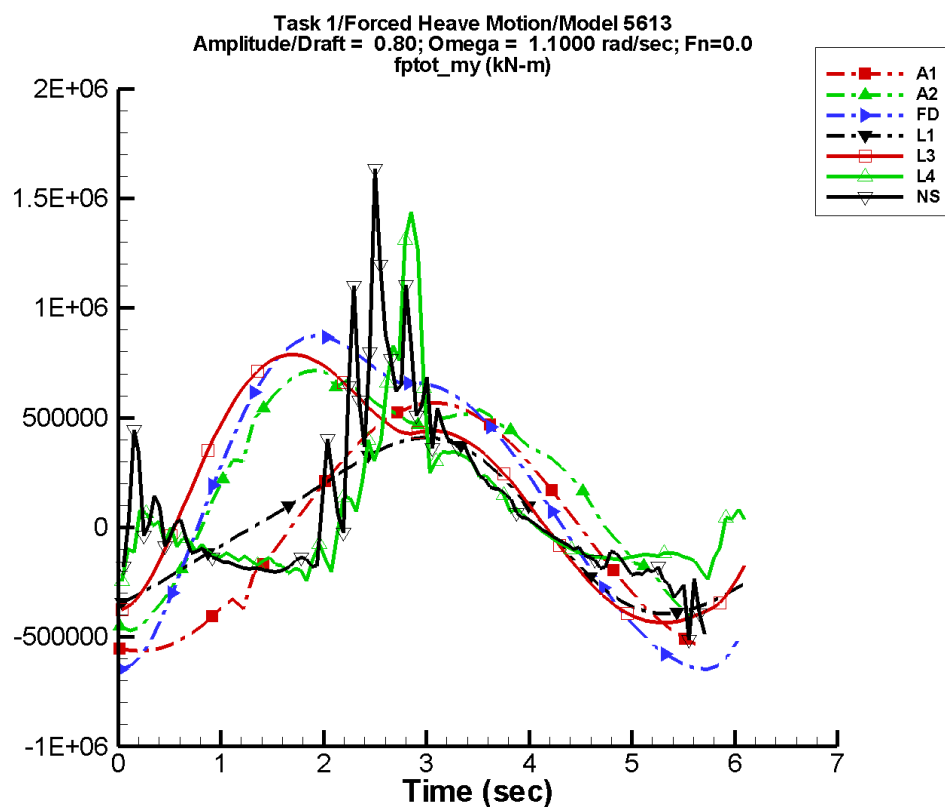
Table A–207. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.35E+03	2.84E+05	-105	6.48E+03	80
A2	7.35E+04	2.36E+05	-91	6.19E+04	-103
FD	5.78E+04	3.36E+05	-77	5.91E+04	-90
L1	1.05E+03	1.90E+05	-83	1.68E+04	18
L3	5.13E+04	2.38E+05	-61	5.49E+04	-77
L4	1.25E+04	1.84E+05	-100	1.02E+05	71
NF	—	—	—	—	—
NS	-4.69E+03	2.32E+05	-98	6.15E+04	75

Table A–208. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.85E+05	2.84E+05	-2.81E+05	2.75E+05
A2	-2.36E+05	2.63E+05	-2.30E+05	2.52E+05
FD	-3.22E+05	3.37E+05	-3.18E+05	3.36E+05
L1	-1.91E+05	1.95E+05	-1.88E+05	1.96E+05
L3	-2.08E+05	2.75E+05	-2.05E+05	2.71E+05
L4	-1.77E+05	4.82E+05	-1.46E+05	4.01E+05
NF	—	—	—	—
NS	-2.96E+05	4.86E+05	-2.69E+05	3.24E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-105. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

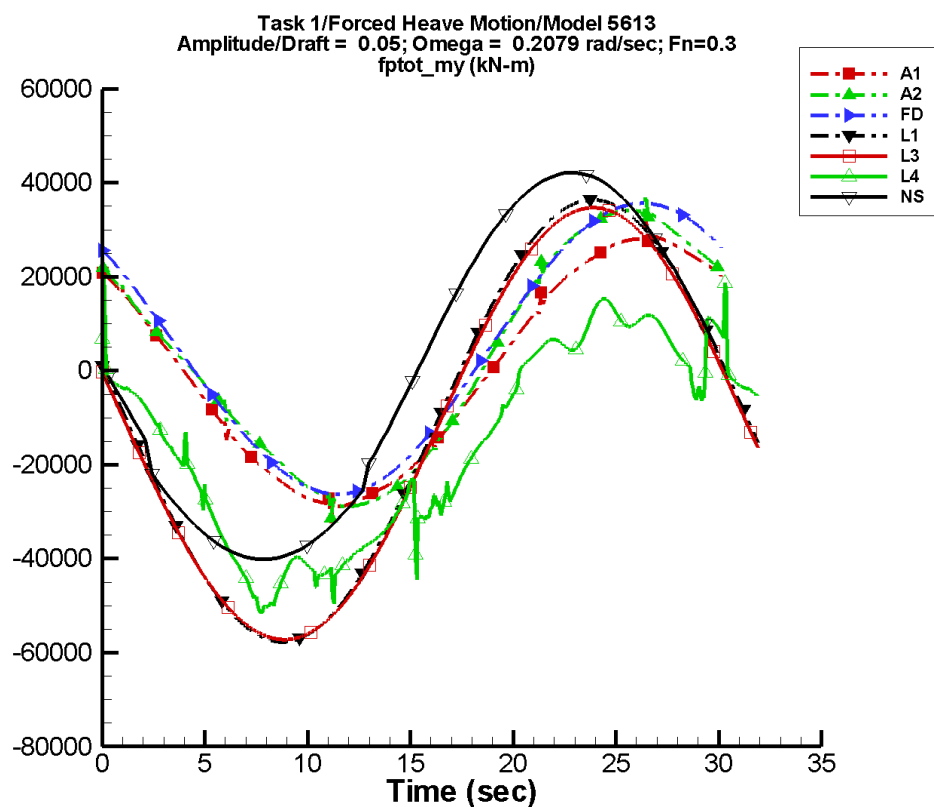
Table A–209. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.71E+03	5.67E+05	-105	1.30E+04	80
A2	2.25E+05	4.97E+05	-78	1.99E+05	-103
FD	1.91E+05	7.16E+05	-66	1.91E+05	-90
L1	4.18E+03	3.80E+05	-83	6.72E+04	18
L3	1.83E+05	5.63E+05	-49	1.78E+05	-72
L4	6.72E+04	3.22E+05	-99	2.77E+05	68
NF	—	—	—	—	—
NS	8.27E+04	3.68E+05	-88	2.40E+05	87

Table A–210. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.70E+05	5.68E+05	-5.62E+05	5.49E+05
A2	-4.71E+05	7.15E+05	-4.55E+05	6.76E+05
FD	-6.49E+05	8.73E+05	-6.21E+05	8.38E+05
L1	-3.93E+05	4.08E+05	-3.88E+05	4.05E+05
L3	-4.35E+05	7.88E+05	-4.29E+05	7.77E+05
L4	-2.46E+05	1.51E+06	-1.89E+05	1.20E+06
NF	—	—	—	—
NS	-5.22E+05	1.64E+06	-3.70E+05	9.31E+05

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

Figure A-106. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

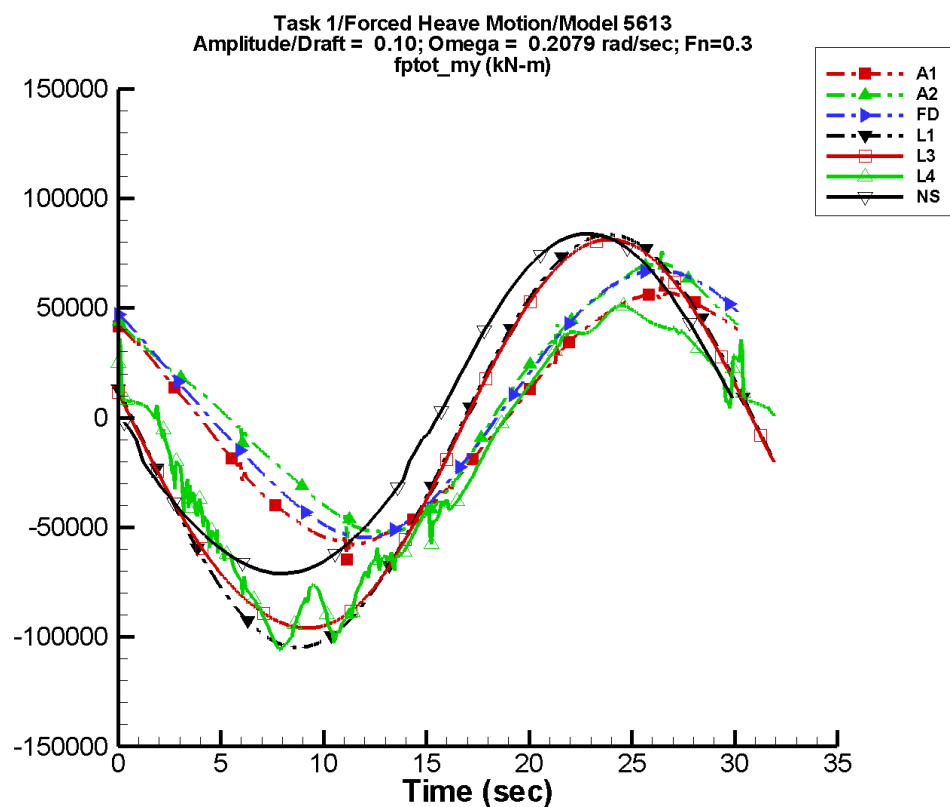
Table A–211. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-36.7	2.83E+04	135	126.	-44
A2	2.71E+03	3.04E+04	136	3.29E+03	-91
FD	4.69E+03	3.08E+04	135	549.	-88
L1	-1.07E+04	4.70E+04	165	13.2	99
L3	-1.16E+04	4.61E+04	165	445.	-92
L4	-1.60E+04	2.83E+04	146	2.28E+03	89
NF	—	—	—	—	—
NS	-84.4	4.16E+04	177	656.	-59

Table A–212. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.24E+04	3.21E+04	-2.89E+04	2.86E+04
A2	-3.15E+04	3.75E+04	-2.88E+04	3.41E+04
FD	-2.63E+04	3.57E+04	-2.63E+04	3.56E+04
L1	-5.77E+04	3.64E+04	-5.77E+04	3.64E+04
L3	-5.72E+04	3.47E+04	-5.72E+04	3.47E+04
L4	-5.18E+04	1.87E+04	-5.06E+04	1.51E+04
NF	—	—	—	—
NS	-4.02E+04	4.22E+04	-3.99E+04	4.17E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-107. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

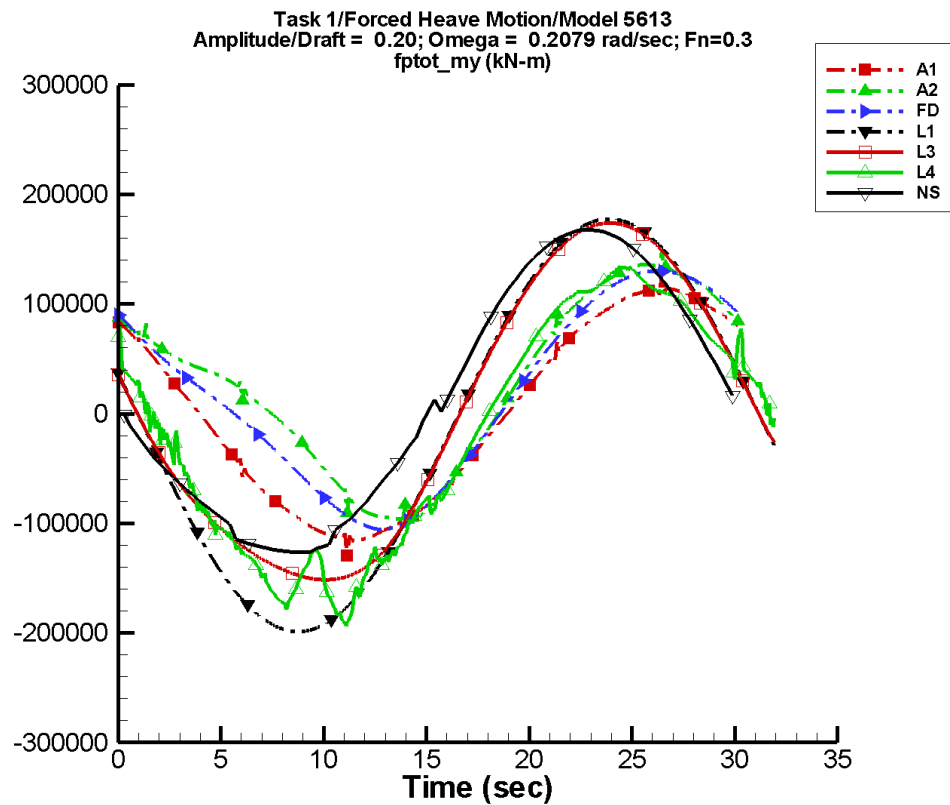
Table A–213. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-73.3	5.67E+04	135	251.	-44
A2	8.60E+03	5.66E+04	132	7.97E+03	-92
FD	6.79E+03	5.96E+04	134	3.05E+03	-88
L1	-1.06E+04	9.41E+04	165	52.9	99
L3	-9.70E+03	8.94E+04	165	2.87E+03	-92
L4	-1.97E+04	6.96E+04	153	5.90E+03	91
NF	—	—	—	—	—
NS	2.15E+03	7.77E+04	177	4.33E+03	-85

Table A–214. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.47E+04	6.42E+04	-5.78E+04	5.73E+04
A2	-5.49E+04	7.73E+04	-5.19E+04	7.03E+04
FD	-5.46E+04	6.72E+04	-5.45E+04	6.71E+04
L1	-1.05E+05	8.34E+04	-1.05E+05	8.34E+04
L3	-9.59E+04	8.13E+04	-9.59E+04	8.12E+04
L4	-1.06E+05	5.11E+04	-1.05E+05	5.10E+04
NF	—	—	—	—
NS	-7.11E+04	8.39E+04	-7.04E+04	8.30E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-108. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

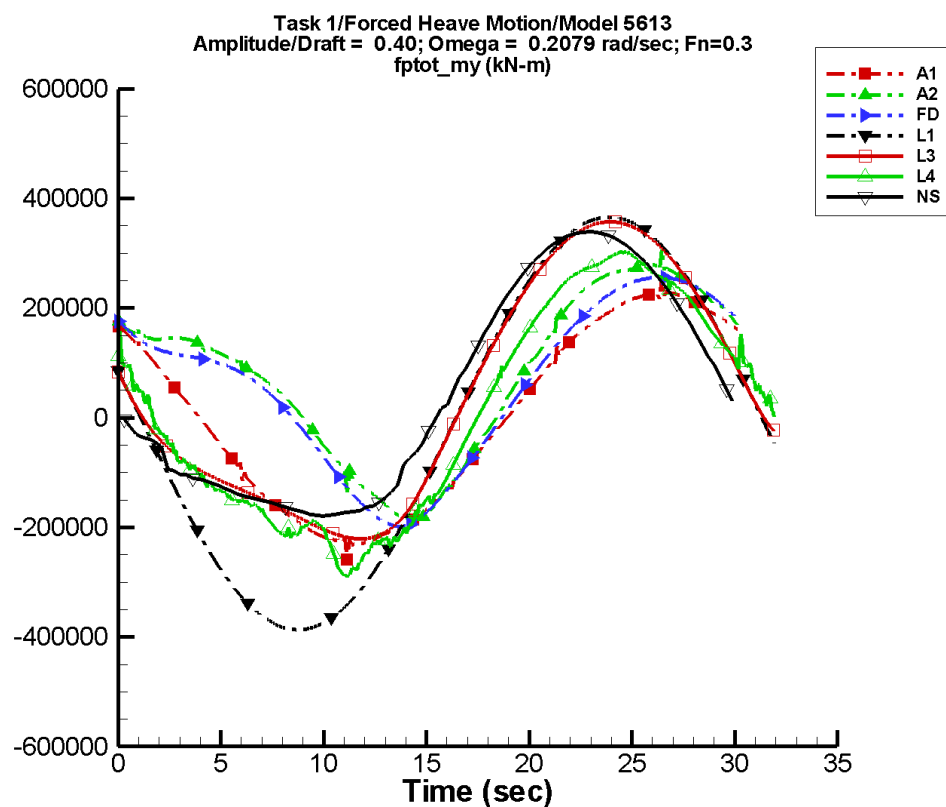
Table A–215. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-147.	1.13E+05	135	502.	-44
A2	2.70E+04	1.03E+05	125	2.65E+04	-93
FD	1.74E+04	1.10E+05	129	1.50E+04	-88
L1	-1.05E+04	1.88E+05	165	212.	99
L3	659.	1.65E+05	164	1.49E+04	-92
L4	-2.03E+04	1.46E+05	154	874.	-116
NF	—	—	—	—	—
NS	1.23E+04	1.44E+05	177	9.90E+03	-81

Table A–216. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.29E+05	1.28E+05	-1.16E+05	1.15E+05
A2	-9.66E+04	1.49E+05	-9.51E+04	1.36E+05
FD	-1.05E+05	1.30E+05	-1.05E+05	1.30E+05
L1	-1.99E+05	1.78E+05	-1.99E+05	1.77E+05
L3	-1.51E+05	1.74E+05	-1.51E+05	1.74E+05
L4	-1.94E+05	1.33E+05	-1.89E+05	1.33E+05
NF	—	—	—	—
NS	-1.26E+05	1.68E+05	-1.26E+05	1.66E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-109. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

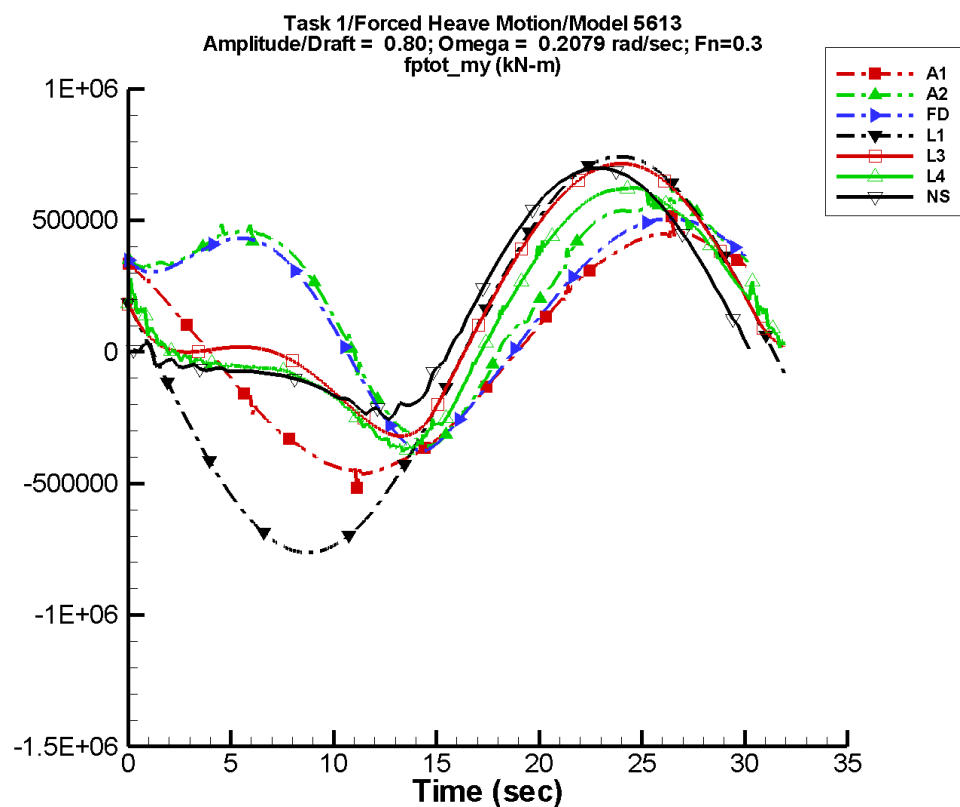
Table A–217. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-293.	2.27E+05	135	1.00E+03	-44
A2	7.65E+04	1.92E+05	119	6.92E+04	-92
FD	5.80E+04	1.93E+05	118	5.73E+04	-88
L1	-9.83E+03	3.76E+05	165	848.	99
L3	4.11E+04	2.82E+05	161	5.65E+04	-92
L4	5.06E+03	2.67E+05	153	3.76E+04	-97
NF	—	—	—	—	—
NS	4.29E+04	2.56E+05	174	4.89E+04	-78

Table A–218. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.59E+05	2.57E+05	-2.31E+05	2.29E+05
A2	-1.84E+05	3.08E+05	-1.84E+05	2.80E+05
FD	-1.98E+05	2.56E+05	-1.97E+05	2.56E+05
L1	-3.87E+05	3.66E+05	-3.87E+05	3.66E+05
L3	-2.21E+05	3.57E+05	-2.21E+05	3.57E+05
L4	-2.92E+05	3.02E+05	-2.86E+05	3.01E+05
NF	—	—	—	—
NS	-1.79E+05	3.39E+05	-1.76E+05	3.36E+05

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

Figure A-110. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

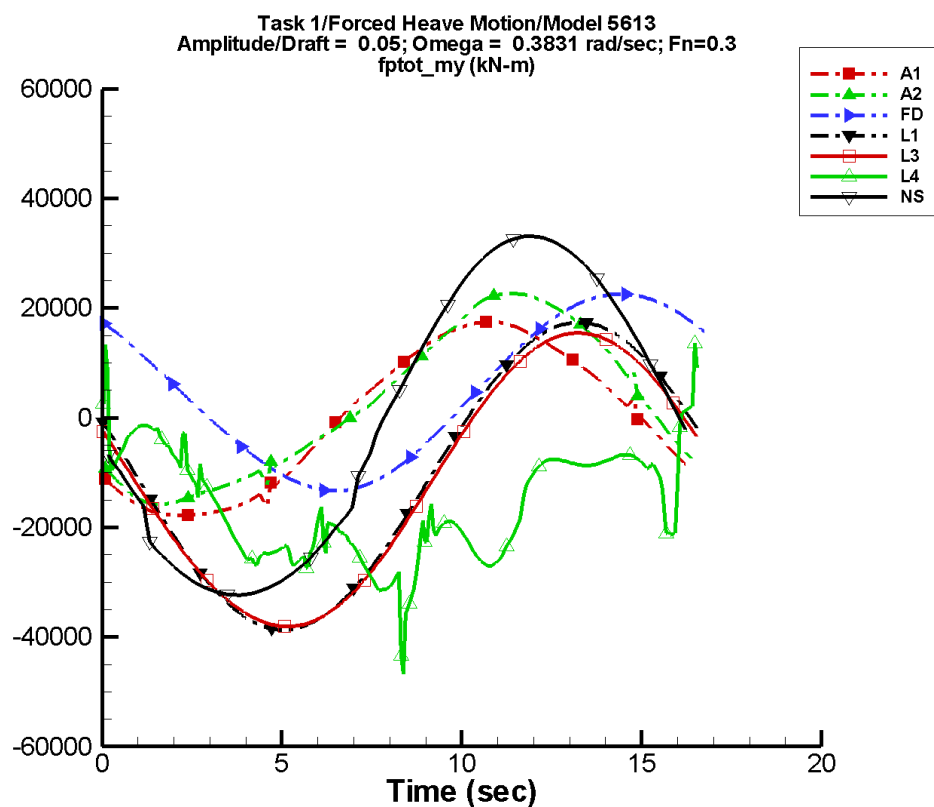
Table A–219. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-587.	4.53E+05	135	2.01E+03	-44
A2	2.32E+05	3.37E+05	102	2.15E+05	-93
FD	1.91E+05	3.42E+05	97	1.86E+05	-88
L1	-7.29E+03	7.53E+05	165	3.39E+03	99
L3	1.74E+05	4.33E+05	155	1.81E+05	-92
L4	1.15E+05	4.16E+05	150	1.54E+05	-101
NF	—	—	—	—	—
NS	1.58E+05	4.17E+05	171	1.56E+05	-80

Table A–220. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.18E+05	5.14E+05	-4.63E+05	4.58E+05
A2	-3.57E+05	6.43E+05	-3.54E+05	5.81E+05
FD	-3.76E+05	5.07E+05	-3.73E+05	5.06E+05
L1	-7.63E+05	7.43E+05	-7.62E+05	7.42E+05
L3	-3.20E+05	7.16E+05	-3.19E+05	7.16E+05
L4	-3.80E+05	6.24E+05	-3.66E+05	6.23E+05
NF	—	—	—	—
NS	-2.58E+05	6.98E+05	-2.28E+05	6.92E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-111. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

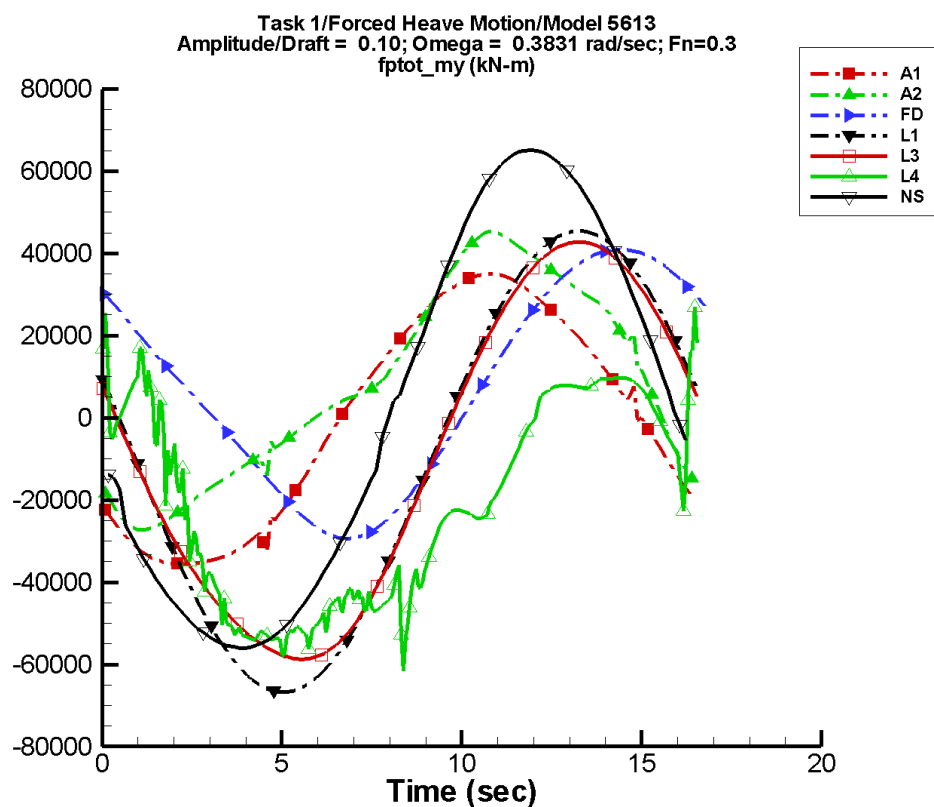
Table A–221. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-88.2	1.72E+04	-147	55.2	35
A2	2.66E+03	1.78E+04	-156	3.17E+03	-94
FD	4.69E+03	1.78E+04	132	539.	-89
L1	-1.06E+04	2.80E+04	159	64.8	81
L3	-1.16E+04	2.68E+04	159	370.	-88
L4	-1.59E+04	1.23E+04	103	931.	74
NF	—	—	—	—	—
NS	-217.	3.35E+04	-173	765.	-20

Table A–222. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.78E+04	1.75E+04	-1.77E+04	1.74E+04
A2	-1.57E+04	2.27E+04	-1.56E+04	2.26E+04
FD	-1.33E+04	2.25E+04	-1.33E+04	2.25E+04
L1	-3.87E+04	1.74E+04	-3.87E+04	1.74E+04
L3	-3.81E+04	1.55E+04	-3.81E+04	1.55E+04
L4	-4.67E+04	1.36E+04	-3.57E+04	2.76E+03
NF	—	—	—	—
NS	-3.23E+04	3.35E+04	-3.21E+04	3.32E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-112. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-176.	3.45E+04	-147	110.	35
A2	8.50E+03	3.07E+04	-150	7.74E+03	-94
FD	6.78E+03	3.37E+04	128	2.99E+03	-88
L1	-1.05E+04	5.61E+04	159	259.	81
L3	-9.56E+03	5.09E+04	158	2.49E+03	-89
L4	-2.05E+04	3.32E+04	133	4.20E+03	85
NF	—	—	—	—	—
NS	1.16E+03	6.10E+04	-174	3.96E+03	-74

Table A–224. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.56E+04	3.50E+04	-3.55E+04	3.48E+04
A2	-2.72E+04	4.53E+04	-2.69E+04	4.47E+04
FD	-2.94E+04	4.09E+04	-2.92E+04	4.09E+04
L1	-6.68E+04	4.54E+04	-6.67E+04	4.55E+04
L3	-5.87E+04	4.28E+04	-5.87E+04	4.28E+04
L4	-6.16E+04	2.70E+04	-5.46E+04	1.38E+04
NF	—	—	—	—
NS	-5.60E+04	6.60E+04	-5.55E+04	6.53E+04

TASK 1/HEAVE MOTION/MODEL 5613

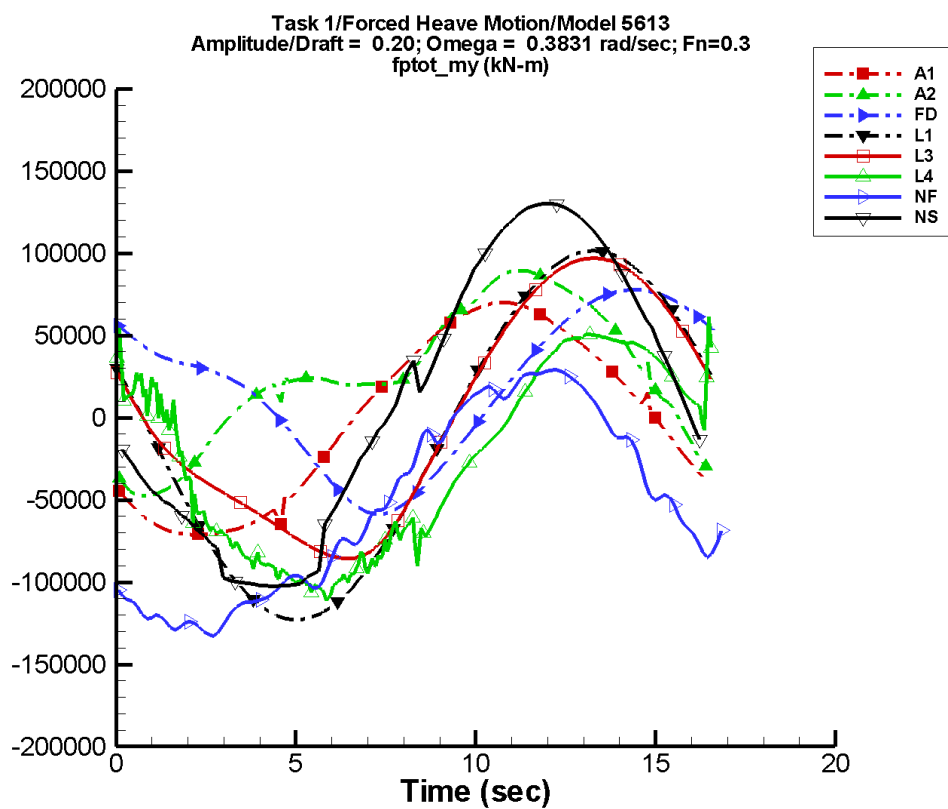


Figure A-113. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-353.	6.90E+04	-147	221.	35
A2	2.68E+04	4.88E+04	-140	2.61E+04	-95
FD	1.73E+04	5.94E+04	118	1.47E+04	-88
L1	-9.79E+03	1.12E+05	159	1.04E+03	81
L3	1.14E+03	8.80E+04	155	1.33E+04	-89
L4	-2.51E+04	7.74E+04	143	2.07E+03	97
NF	-6.63E+04	5.94E+04	-117	9.44E+03	21
NS	1.11E+04	1.12E+05	-173	5.00E+03	-53

Table A–226. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.11E+04	7.00E+04	-7.10E+04	6.96E+04
A2	-4.74E+04	8.94E+04	-4.68E+04	8.89E+04
FD	-5.87E+04	7.78E+04	-5.80E+04	7.78E+04
L1	-1.23E+05	1.02E+05	-1.23E+05	1.02E+05
L3	-8.57E+04	9.70E+04	-8.55E+04	9.71E+04
L4	-1.12E+05	6.14E+04	-1.06E+05	5.02E+04
NF	-1.33E+05	2.92E+04	-1.29E+05	2.82E+04
NS	-1.02E+05	1.32E+05	-1.03E+05	1.31E+05

TASK 1/HEAVE MOTION/MODEL 5613

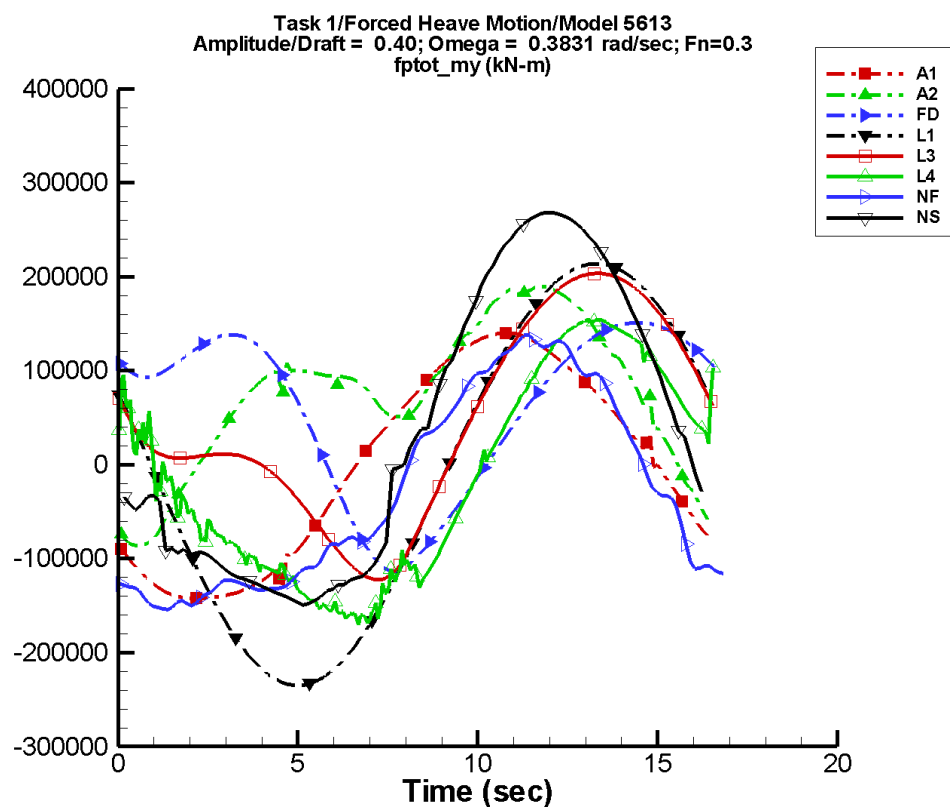


Figure A-114. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-705.	1.38E+05	-147	442.	35
A2	7.62E+04	8.07E+04	-129	6.83E+04	-94
FD	5.79E+04	1.05E+05	94	5.61E+04	-89
L1	-7.13E+03	2.24E+05	159	4.14E+03	81
L3	4.30E+04	1.32E+05	147	5.09E+04	-89
L4	-1.34E+04	1.47E+05	145	2.33E+04	-105
NF	-4.92E+04	1.17E+05	-116	3.50E+04	21
NS	3.35E+04	2.03E+05	-178	4.24E+04	-58

Table A–228. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.42E+05	1.40E+05	-1.42E+05	1.39E+05
A2	-8.58E+04	1.90E+05	-8.36E+04	1.88E+05
FD	-1.14E+05	1.51E+05	-1.11E+05	1.51E+05
L1	-2.35E+05	2.14E+05	-2.35E+05	2.14E+05
L3	-1.22E+05	2.04E+05	-1.22E+05	2.04E+05
L4	-1.70E+05	1.54E+05	-1.63E+05	1.54E+05
NF	-1.54E+05	1.38E+05	-1.51E+05	1.32E+05
NS	-1.49E+05	2.72E+05	-1.43E+05	2.69E+05

TASK 1/HEAVE MOTION/MODEL 5613

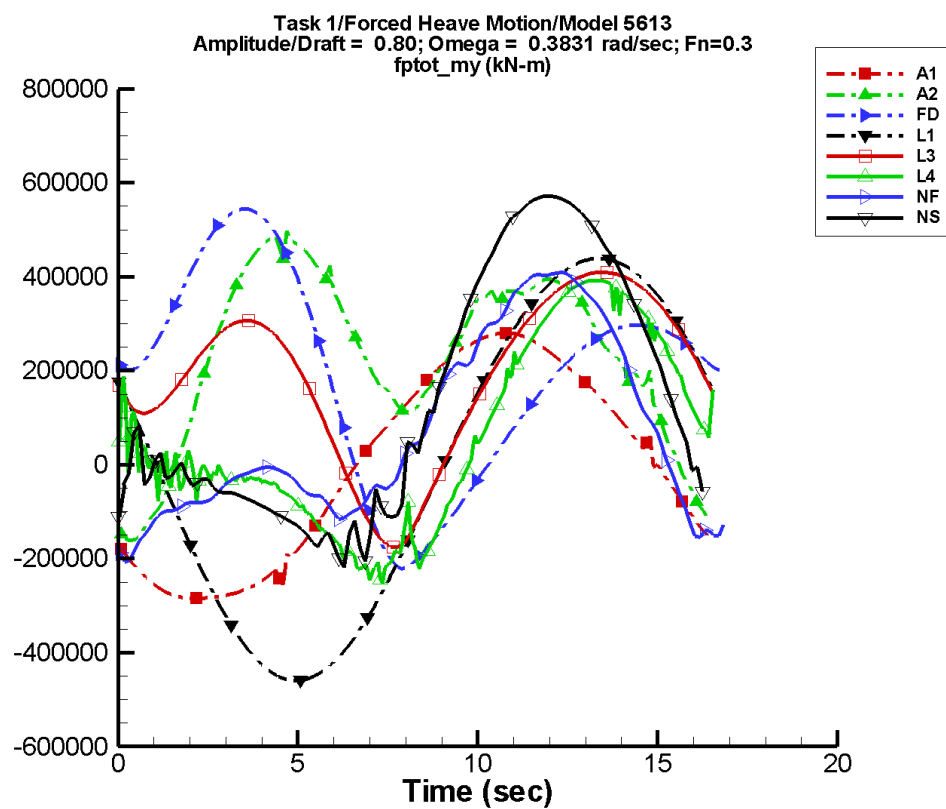


Figure A-115. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

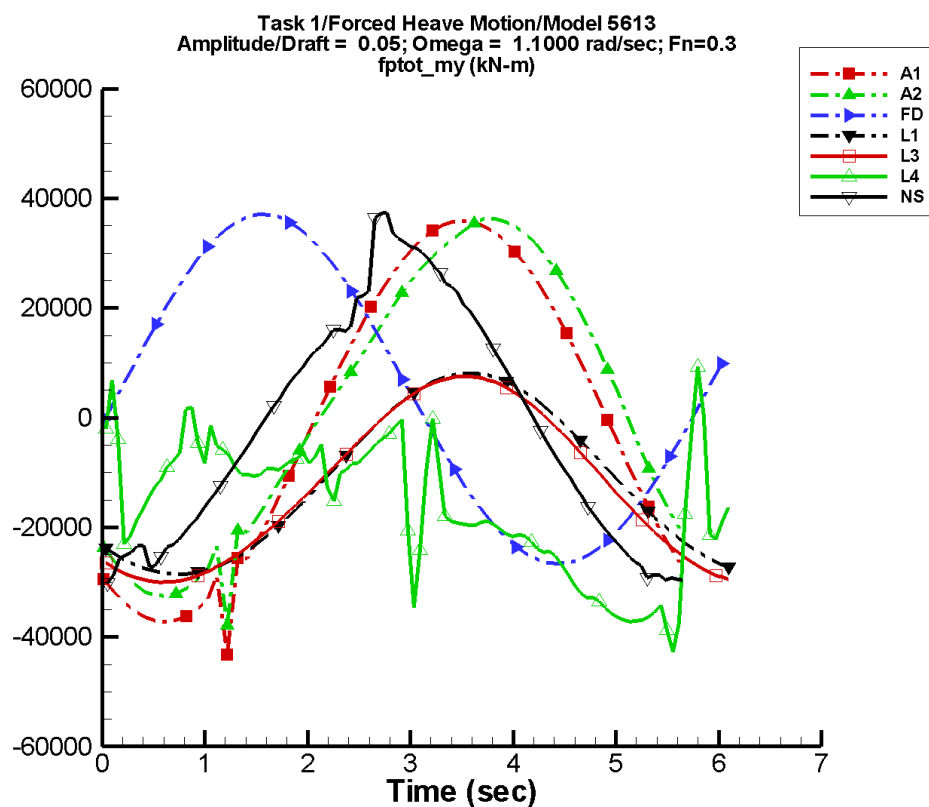
Table A–229. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.41E+03	2.76E+05	-147	883.	35
A2	2.31E+05	1.34E+05	-83	2.14E+05	-95
FD	1.91E+05	2.40E+05	60	1.82E+05	-89
L1	3.51E+03	4.49E+05	159	1.66E+04	81
L3	1.82E+05	1.60E+05	120	1.62E+05	-89
L4	5.50E+04	2.48E+05	146	1.06E+05	-104
NF	3.87E+04	2.06E+05	-118	1.36E+05	9
NS	1.35E+05	3.37E+05	179	1.30E+05	-62

Table A–230. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.84E+05	2.80E+05	-2.84E+05	2.79E+05
A2	-1.61E+05	4.99E+05	-1.56E+05	4.93E+05
FD	-2.21E+05	5.44E+05	-2.12E+05	5.41E+05
L1	-4.59E+05	4.39E+05	-4.59E+05	4.39E+05
L3	-1.76E+05	4.09E+05	-1.74E+05	4.09E+05
L4	-2.52E+05	3.93E+05	-2.27E+05	3.93E+05
NF	-2.07E+05	4.09E+05	-1.84E+05	4.06E+05
NS	-2.19E+05	5.81E+05	-1.71E+05	5.75E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-116. Time history of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

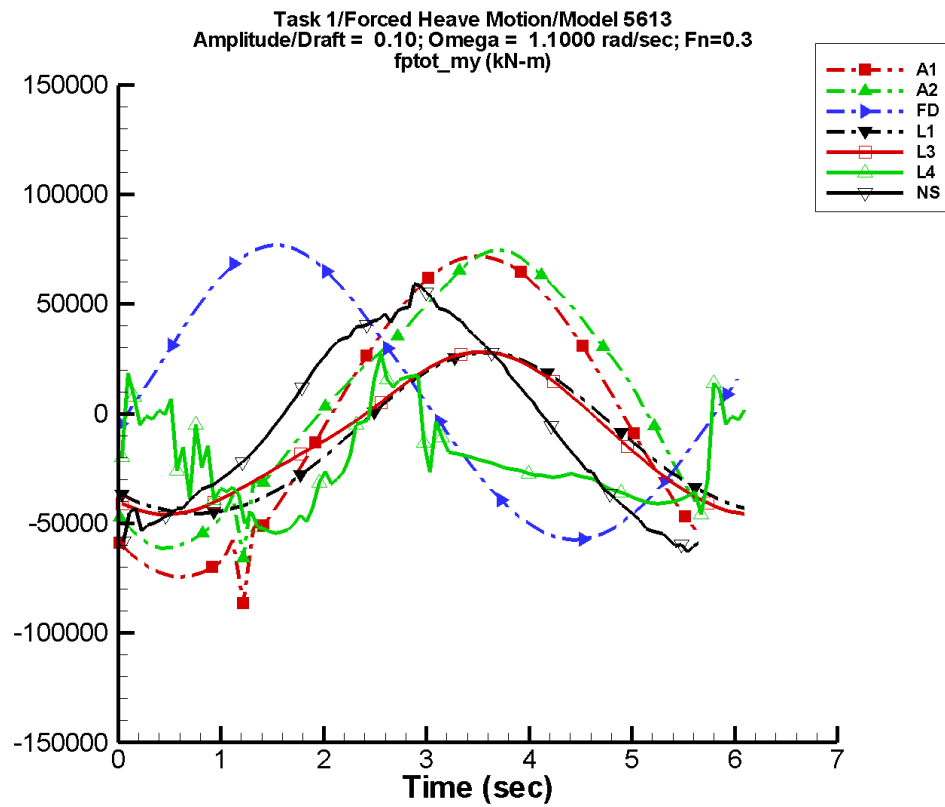
Table A–231. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-792.	3.68E+04	-131	312.	72
A2	1.96E+03	3.37E+04	-139	2.88E+03	-103
FD	4.69E+03	3.17E+04	-10	564.	-90
L1	-1.08E+04	1.83E+04	-136	584.	7
L3	-1.17E+04	1.86E+04	-131	707.	-35
L4	-1.62E+04	1.26E+04	-29	5.45E+03	19
NF	—	—	—	—	—
NS	-1.68E+03	2.90E+04	-93	3.24E+03	56

Table A–232. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.40E+04	3.59E+04	-3.60E+04	3.48E+04
A2	-3.93E+04	3.63E+04	-3.11E+04	3.49E+04
FD	-2.67E+04	3.71E+04	-2.57E+04	3.59E+04
L1	-2.85E+04	8.13E+03	-2.84E+04	7.90E+03
L3	-3.00E+04	7.54E+03	-2.98E+04	7.30E+03
L4	-4.27E+04	9.37E+03	-3.79E+04	-1.78E+03
NF	—	—	—	—
NS	-3.11E+04	3.84E+04	-2.95E+04	3.42E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-117. Time history of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Table A–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/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.58E+03	7.36E+04	-131	624.	72
A2	7.07E+03	6.38E+04	-135	7.17E+03	-103
FD	6.78E+03	6.62E+04	-9	3.16E+03	-90
L1	-1.11E+04	3.67E+04	-136	2.34E+03	7
L3	-1.02E+04	3.55E+04	-127	3.48E+03	-52
L4	-2.24E+04	8.74E+03	-99	2.29E+04	74
NF	—	—	—	—	—
NS	-5.55E+03	5.32E+04	-90	4.25E+03	60

Table A–234. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.81E+04	7.18E+04	-7.21E+04	6.96E+04
A2	-7.19E+04	7.46E+04	-5.73E+04	7.09E+04
FD	-5.74E+04	7.70E+04	-5.56E+04	7.42E+04
L1	-4.55E+04	2.79E+04	-4.52E+04	2.74E+04
L3	-4.60E+04	2.81E+04	-4.54E+04	2.76E+04
L4	-5.57E+04	2.96E+04	-5.28E+04	1.80E+04
NF	—	—	—	—
NS	-6.33E+04	6.16E+04	-5.87E+04	5.38E+04

TASK 1/HEAVE MOTION/MODEL 5613

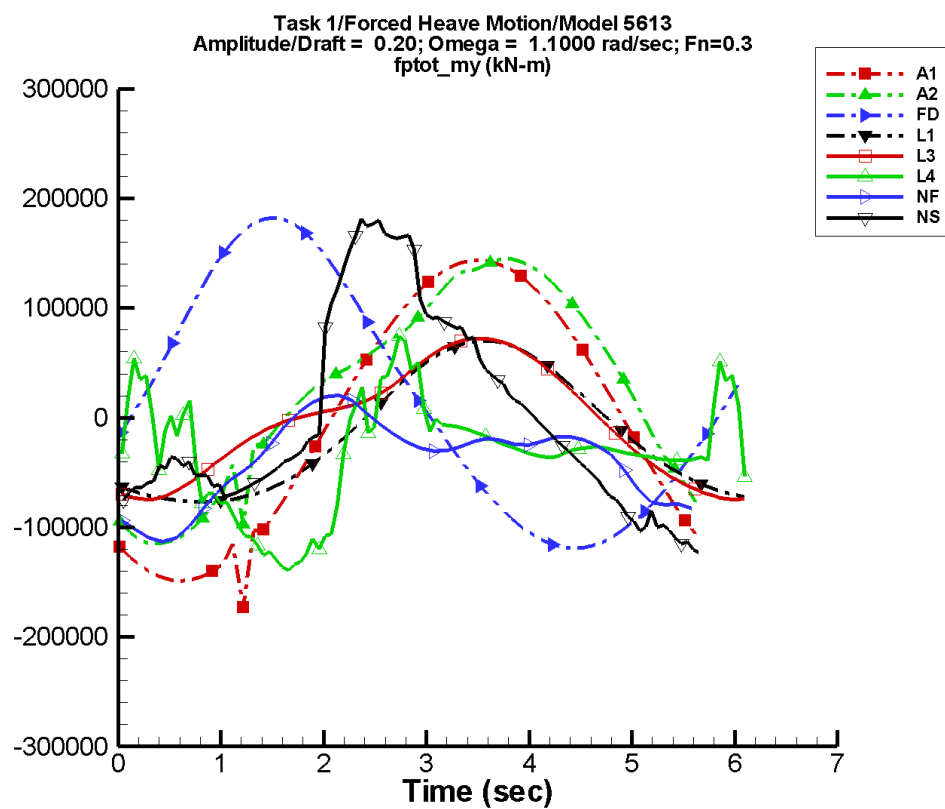


Figure A-118. Time history of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Table A–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/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.17E+03	1.47E+05	-131	1.25E+03	72
A2	2.39E+04	1.18E+05	-130	2.48E+04	-103
FD	1.73E+04	1.46E+05	-8	1.56E+04	-90
L1	-1.23E+04	7.33E+04	-136	9.35E+03	7
L3	-1.35E+03	6.42E+04	-117	1.65E+04	-60
L4	-3.21E+04	3.15E+04	-160	5.75E+04	76
NF	-3.83E+04	4.88E+04	-123	2.36E+04	174
NS	-143.	1.10E+05	-87	3.81E+04	95

Table A–236. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.76E+05	1.44E+05	-1.44E+05	1.39E+05
A2	-1.31E+05	1.45E+05	-1.07E+05	1.40E+05
FD	-1.19E+05	1.82E+05	-1.15E+05	1.75E+05
L1	-7.66E+04	7.03E+04	-7.62E+04	6.90E+04
L3	-7.45E+04	7.22E+04	-7.29E+04	7.09E+04
L4	-1.40E+05	7.50E+04	-1.32E+05	5.44E+04
NF	-1.13E+05	2.58E+04	-1.03E+05	1.66E+04
NS	-1.23E+05	1.89E+05	-1.14E+05	1.83E+05

TASK 1/HEAVE MOTION/MODEL 5613

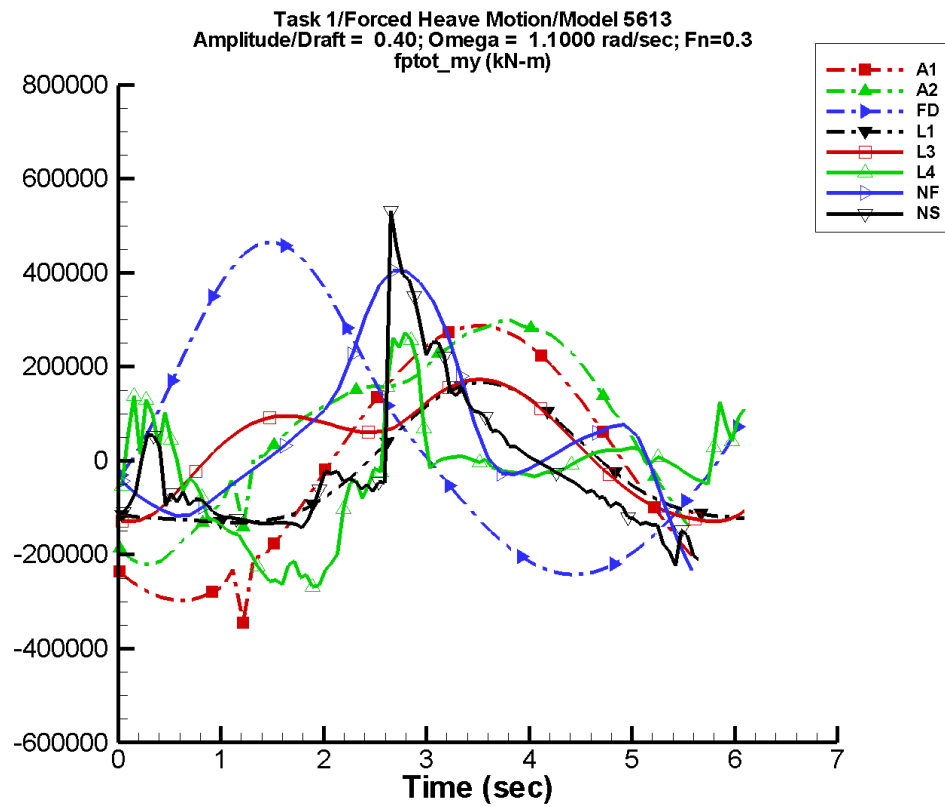


Figure A-119. Time history of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Table A–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/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.34E+03	2.94E+05	-131	2.50E+03	72
A2	7.06E+04	2.24E+05	-124	6.59E+04	-103
FD	5.78E+04	3.39E+05	-7	5.91E+04	-90
L1	-1.73E+04	1.47E+05	-136	3.74E+04	7
L3	3.30E+04	1.18E+05	-94	6.40E+04	-59
L4	-2.96E+04	8.76E+04	-174	1.24E+05	74
NF	-46.3	1.24E+05	-113	8.85E+04	139
NS	-2.14E+04	1.45E+05	-111	9.88E+04	55

Table A–238. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.52E+05	2.87E+05	-2.88E+05	2.79E+05
A2	-2.22E+05	2.98E+05	-2.02E+05	2.87E+05
FD	-2.43E+05	4.65E+05	-2.36E+05	4.45E+05
L1	-1.31E+05	1.66E+05	-1.31E+05	1.63E+05
L3	-1.29E+05	1.73E+05	-1.29E+05	1.69E+05
L4	-2.68E+05	3.14E+05	-2.50E+05	2.26E+05
NF	-3.00E+05	4.05E+05	-2.37E+05	3.26E+05
NS	-2.35E+05	5.54E+05	-1.86E+05	3.47E+05

TASK 1/HEAVE MOTION/MODEL 5613

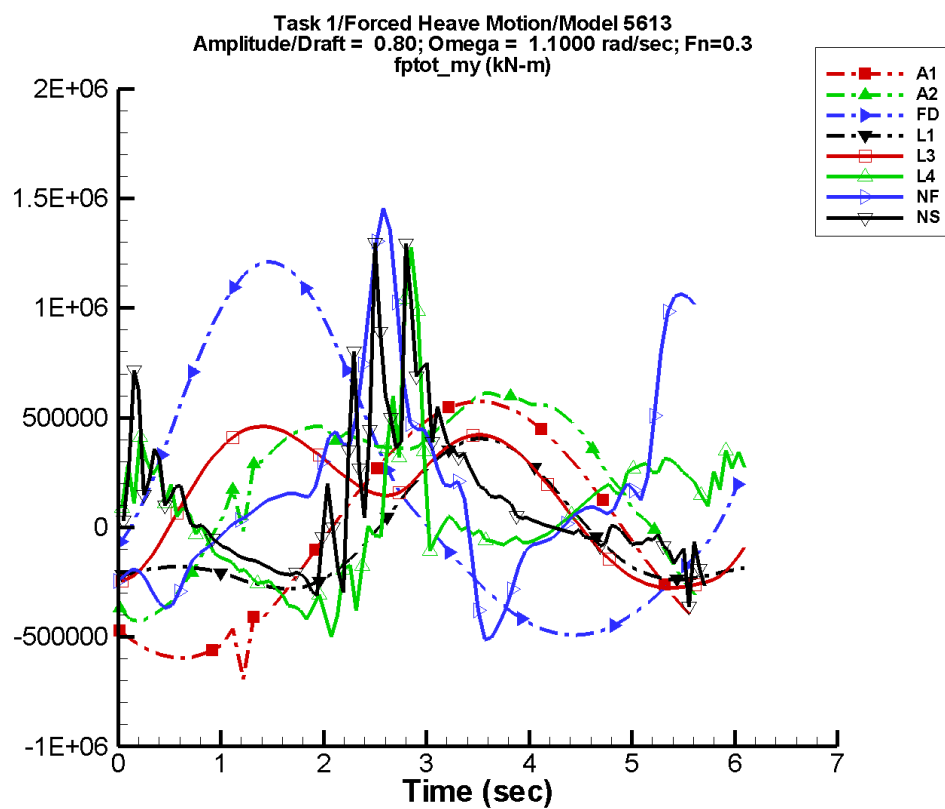


Figure A-120. Time history of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

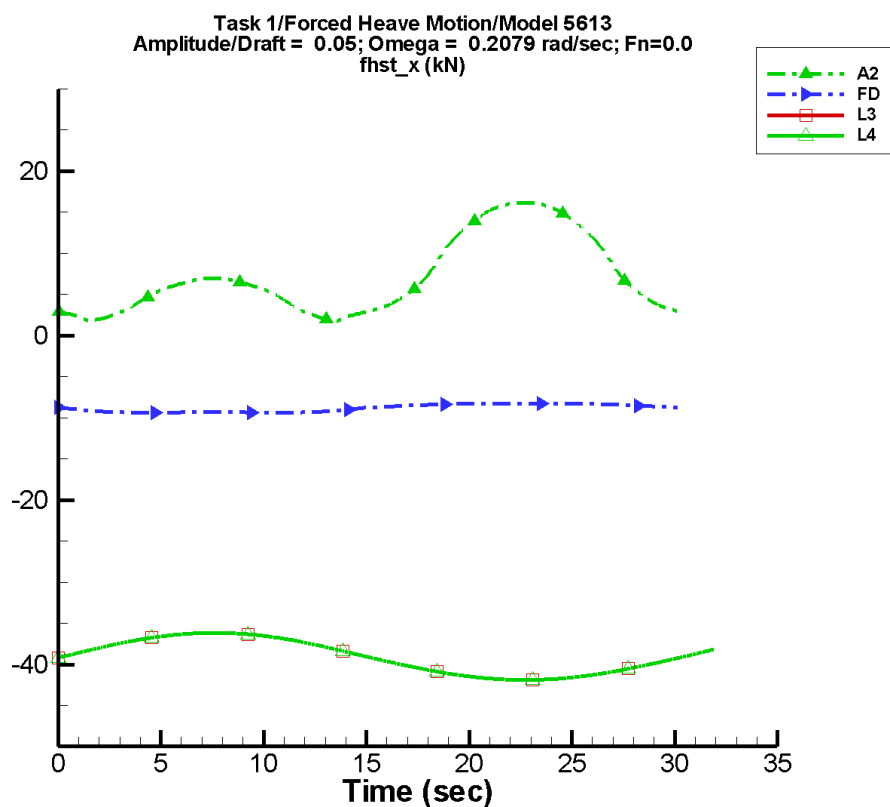
Table A–239. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.27E+04	5.89E+05	-131	4.99E+03	72
A2	2.19E+05	4.09E+05	-110	2.07E+05	-103
FD	1.91E+05	8.12E+05	-6	1.91E+05	-90
L1	-3.73E+04	2.93E+05	-136	1.50E+05	7
L3	1.42E+05	2.73E+05	-64	2.22E+05	-51
L4	5.60E+04	1.59E+05	166	2.70E+05	80
NF	1.08E+05	1.56E+05	51	3.74E+05	135
NS	1.22E+05	2.12E+05	-104	2.74E+05	74

Table A–240. Minimum and maximum of M_y^{ptot} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.05E+05	5.75E+05	-5.77E+05	5.57E+05
A2	-4.32E+05	6.14E+05	-3.99E+05	5.88E+05
FD	-4.93E+05	1.21E+06	-4.78E+05	1.16E+06
L1	-2.80E+05	4.05E+05	-2.74E+05	3.95E+05
L3	-2.77E+05	4.60E+05	-2.71E+05	4.50E+05
L4	-4.98E+05	1.28E+06	-3.76E+05	9.06E+05
NF	-9.46E+05	1.46E+06	-8.84E+05	9.91E+05
NS	-3.90E+05	1.37E+06	-2.22E+05	7.81E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-121. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

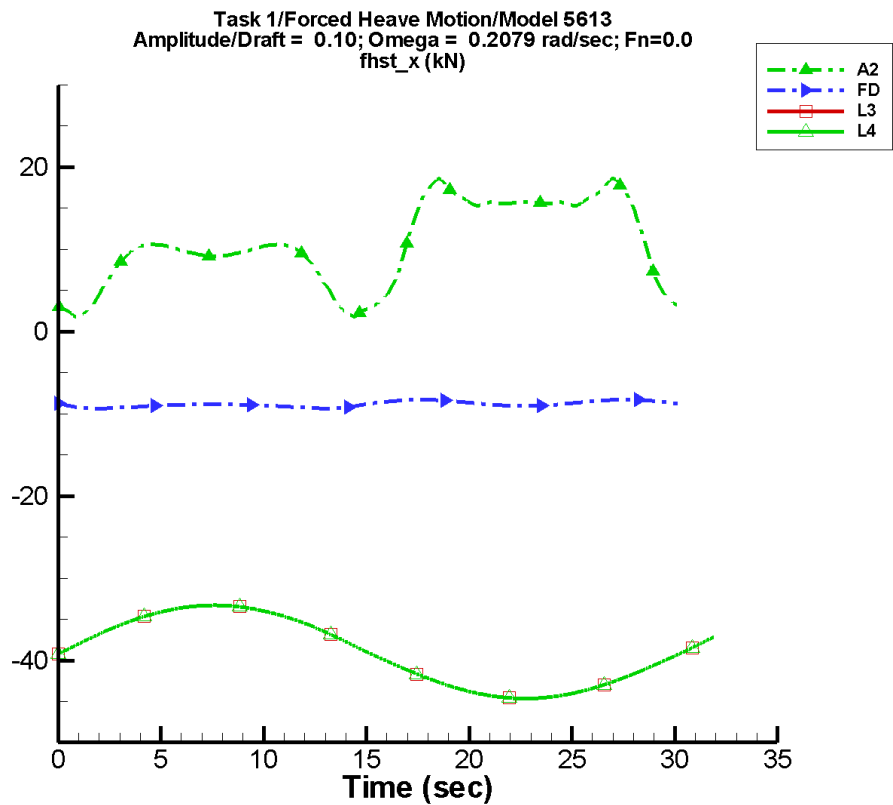
Table A–241. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.09	4.65	180	4.62	-90
FD	-8.84	0.615	-179	2.30E-02	-71
L1	—	—	—	—	—
L3	-39.1	2.86	-1	6.27E-02	-92
L4	-39.1	2.86	-1	6.27E-02	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–242. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	16.2	1.86	16.1
FD	-9.37	-8.29	-9.37	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-122. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

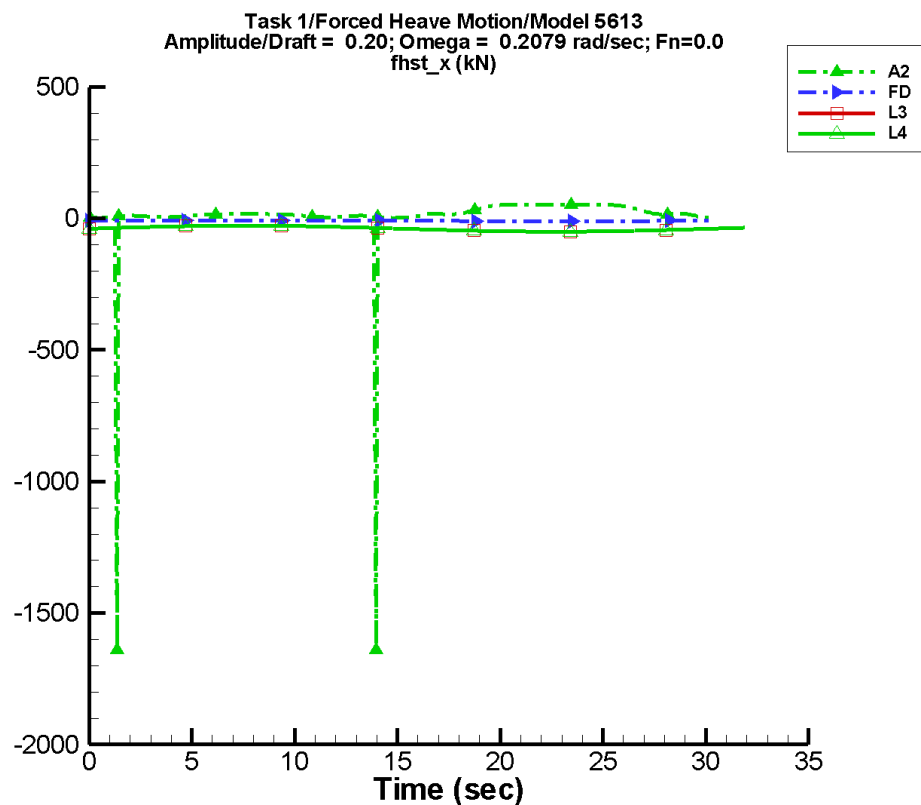
Table A–243. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	4.00	-179	4.43	-90
FD	-8.87	0.232	-167	4.14E-02	-13
L1	—	—	—	—	—
L3	-39.0	5.68	-1	7.22E-02	-91
L4	-39.0	5.68	-1	7.22E-02	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–244. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	18.6	2.04	18.2
FD	-9.37	-8.28	-9.36	-8.29
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.3
L4	-44.6	-33.3	-44.6	-33.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-123. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

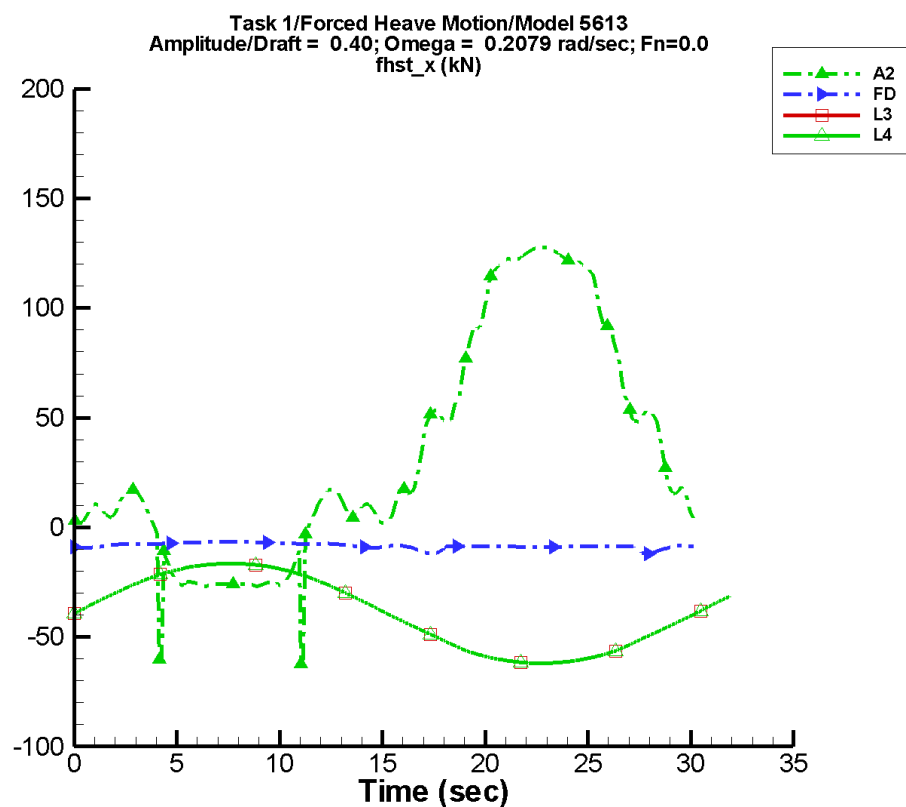
Table A–245. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	12.9	24.3	169	31.0	-88
FD	-9.37	1.91	-3	0.459	83
L1	—	—	—	—	—
L3	-39.0	11.3	-1	8.50E-02	-90
L4	-39.0	11.3	-1	8.50E-02	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–246. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.64E+03	53.5	-212.	53.6
FD	-12.0	-7.55	-11.9	-7.55
L1	—	—	—	—
L3	-50.3	-27.5	-50.3	-27.5
L4	-50.3	-27.5	-50.3	-27.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-124. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

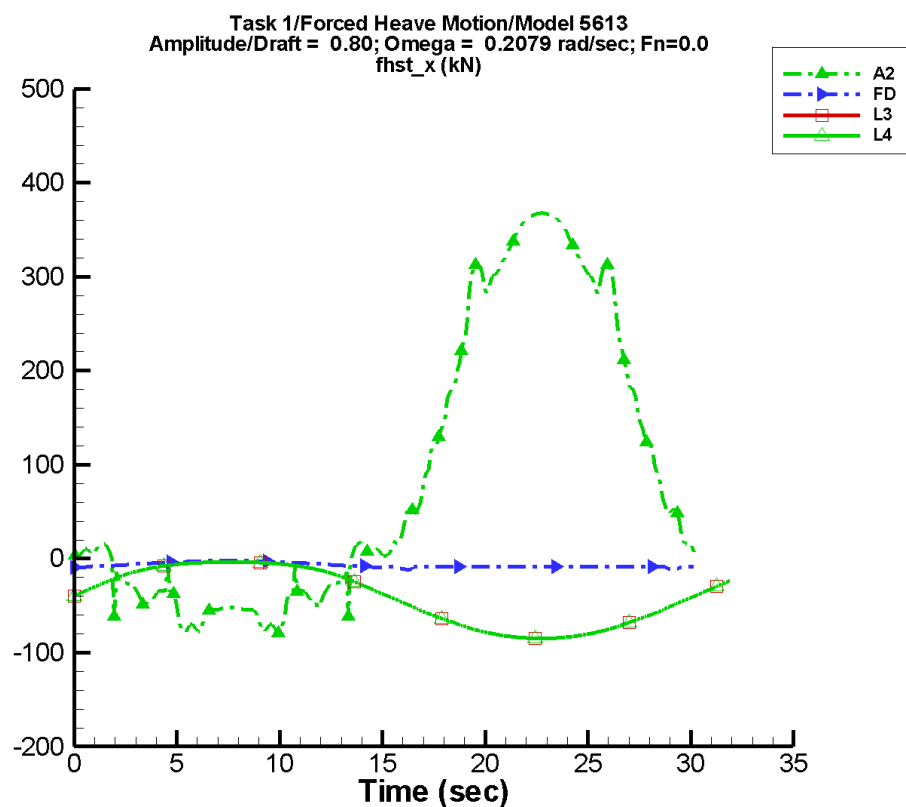
Table A–247. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	33.6	69.2	178	17.0	-87
FD	-8.36	1.15	1	0.768	-92
L1	—	—	—	—	—
L3	-39.1	23.0	-1	0.155	89
L4	-39.1	23.0	-1	0.155	89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–248. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-62.3	128.	-26.5	128.
FD	-12.0	-6.62	-11.7	-6.63
L1	—	—	—	—
L3	-62.0	-16.5	-62.0	-16.5
L4	-62.0	-16.5	-62.0	-16.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-125. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

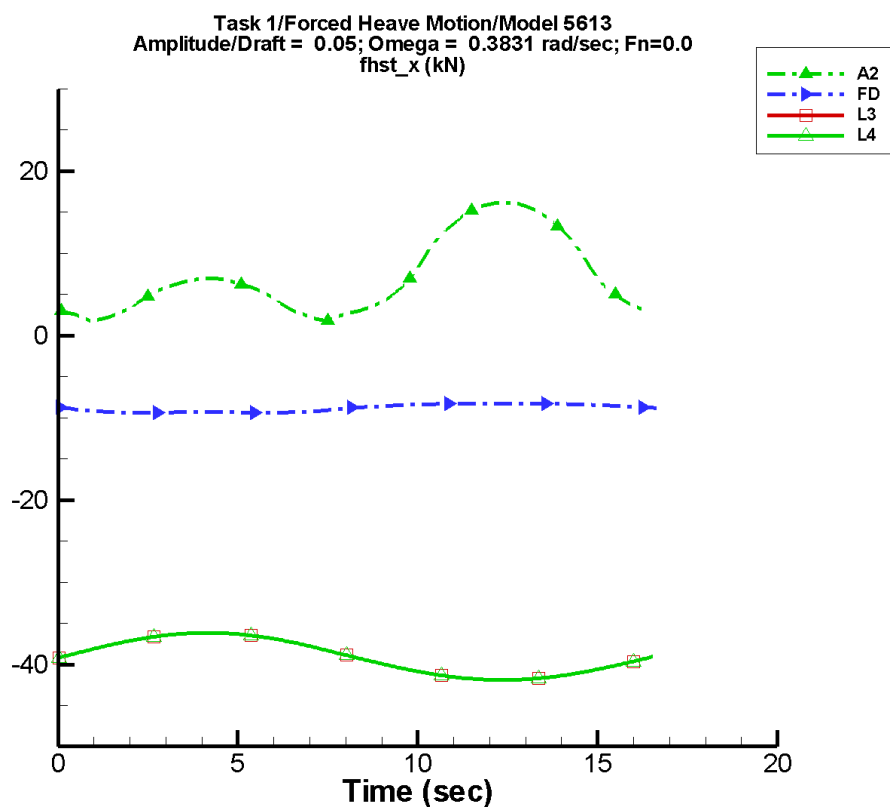
Table A–249. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	90.2	199.	178	67.6	-88
FD	-7.06	3.00	-1	1.77	-89
L1	—	—	—	—	—
L3	-41.1	42.3	-1	3.12	88
L4	-41.1	42.3	-1	3.12	88
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–250. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-80.4	984.	-84.3	367.
FD	-12.0	-2.14	-10.7	-2.15
L1	—	—	—	—
L3	-84.9	-3.53	-84.9	-3.53
L4	-84.9	-3.53	-84.9	-3.53
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-126. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

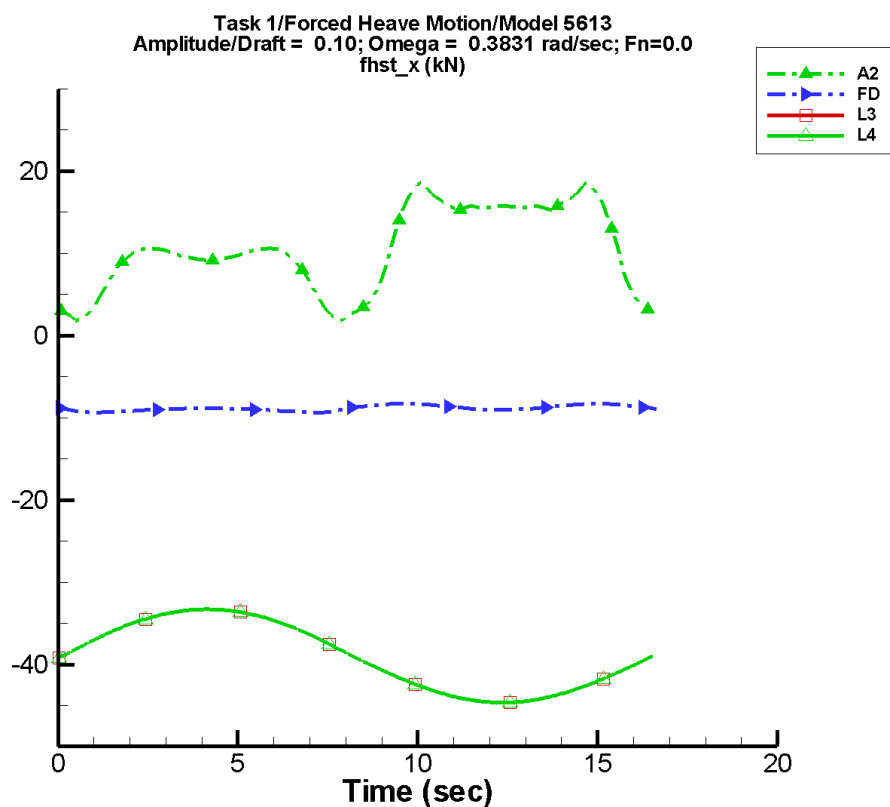
Table A–251. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.10	4.65	178	4.61	-94
FD	-8.84	0.612	-179	1.72E-02	-70
L1	—	—	—	—	—
L3	-39.1	2.86	-1	6.25E-02	-91
L4	-39.1	2.86	-1	6.25E-02	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–252. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.77	16.2	2.00	16.1
FD	-9.37	-8.28	-9.37	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-127. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

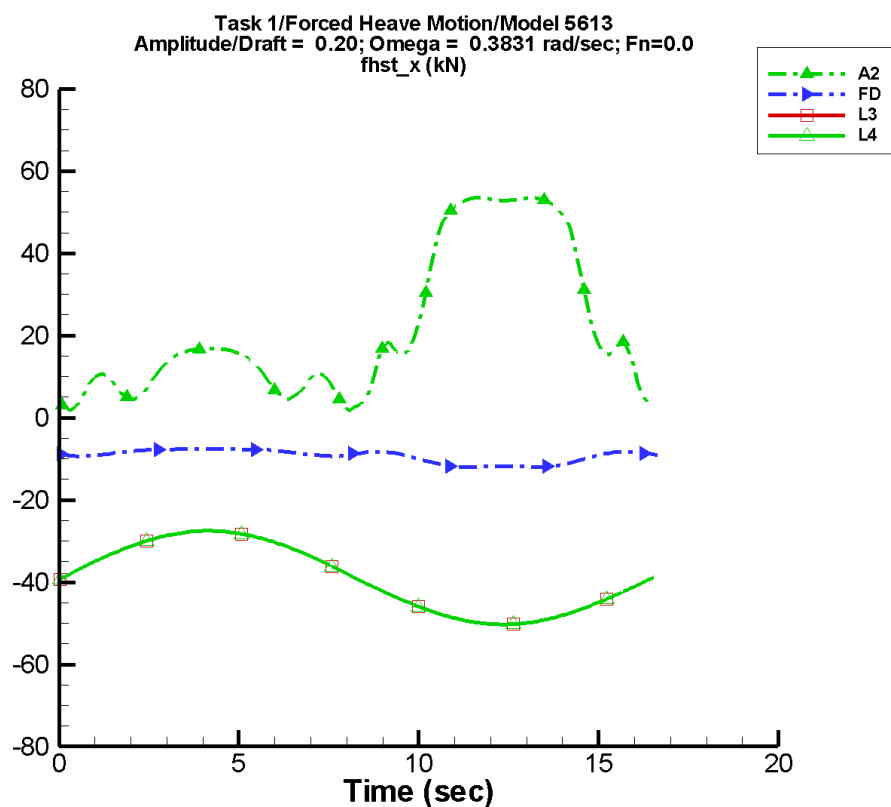
Table A–253. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	4.02	-180	4.42	-92
FD	-8.87	0.217	-169	3.37E-02	30
L1	—	—	—	—	—
L3	-39.0	5.68	-1	7.63E-02	-92
L4	-39.0	5.68	-1	7.63E-02	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–254. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	18.6	2.32	17.8
FD	-9.37	-8.28	-9.35	-8.30
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.3
L4	-44.6	-33.3	-44.6	-33.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-128. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

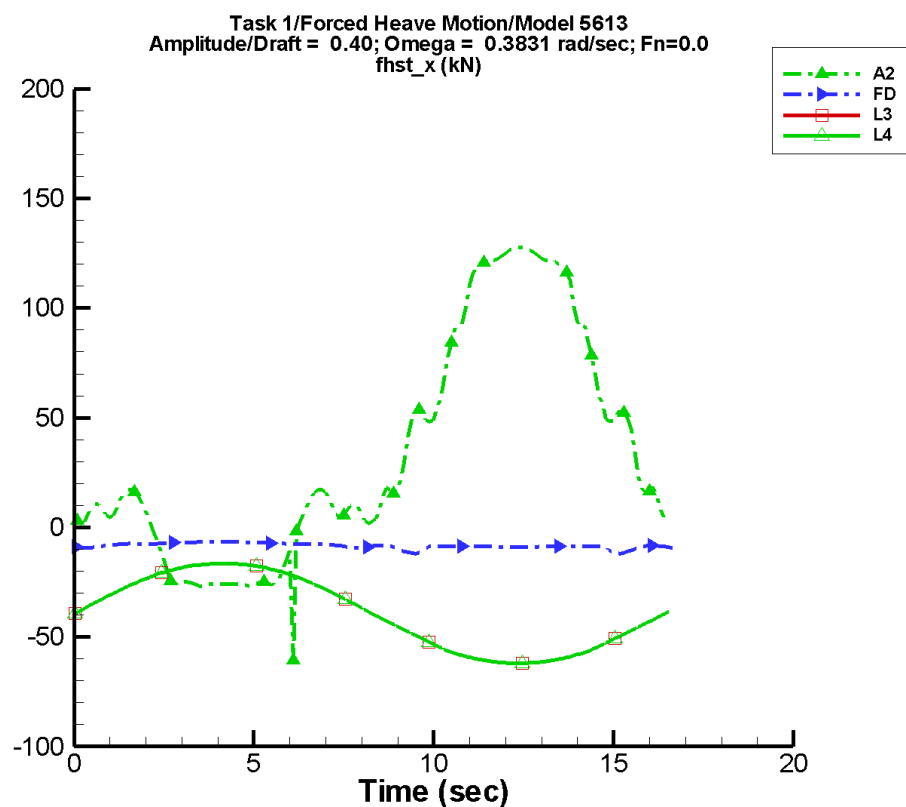
Table A–255. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	21.7	19.6	177	15.1	-94
FD	-9.38	1.93	-3	0.480	81
L1	—	—	—	—	—
L3	-39.0	11.4	-1	8.36E-02	-89
L4	-39.0	11.4	-1	8.36E-02	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–256. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	53.5	2.56	53.3
FD	-12.0	-7.55	-11.9	-7.56
L1	—	—	—	—
L3	-50.3	-27.5	-50.3	-27.5
L4	-50.3	-27.5	-50.3	-27.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-129. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

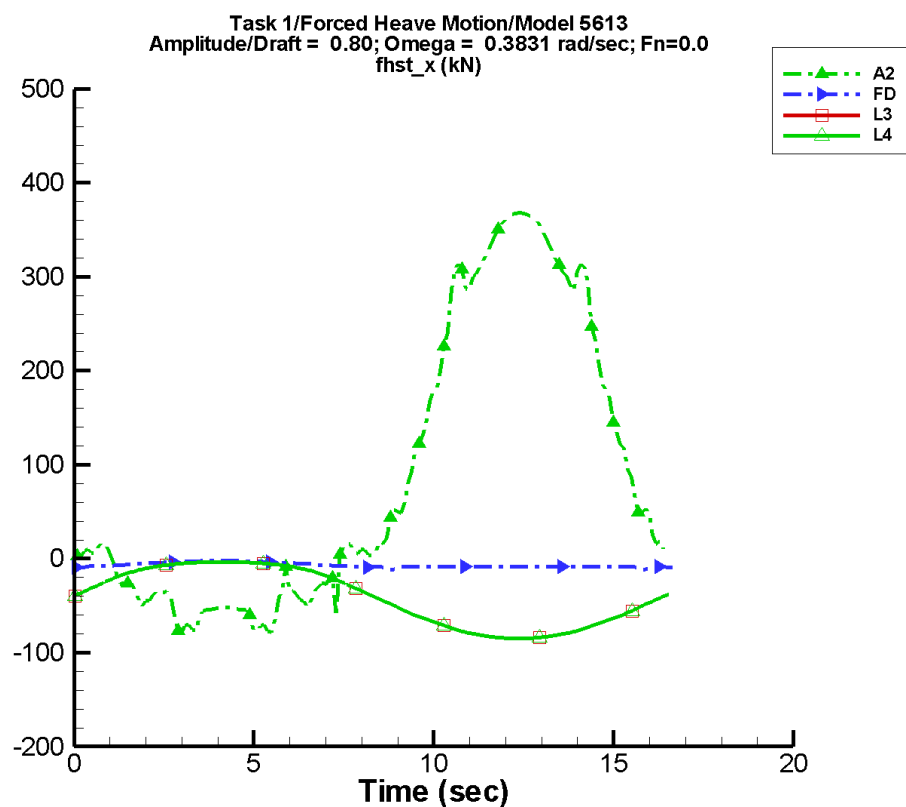
Table A–257. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	33.8	68.8	176	17.1	-87
FD	-8.34	1.13	3	0.767	-95
L1	—	—	—	—	—
L3	-39.1	23.0	-1	0.134	94
L4	-39.1	23.0	-1	0.134	94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–258. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-60.6	128.	-26.2	126.
FD	-12.0	-6.63	-11.0	-6.64
L1	—	—	—	—
L3	-62.0	-16.5	-61.9	-16.5
L4	-62.0	-16.5	-61.9	-16.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-130. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

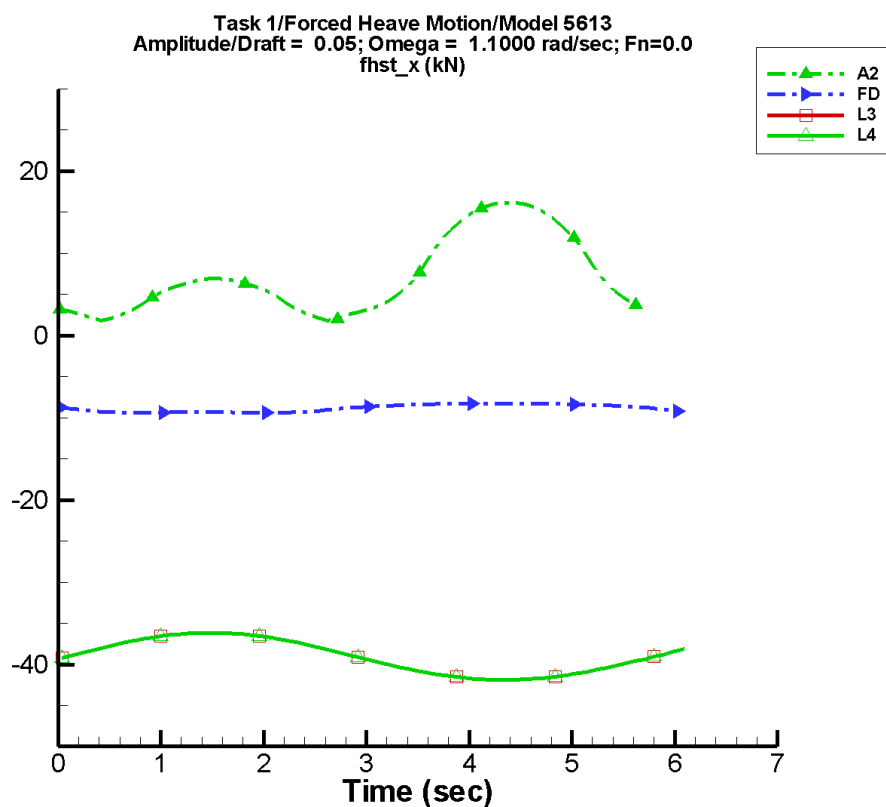
Table A–259. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	88.5	202.	177	65.9	-93
FD	-7.06	3.01	0	1.74	-89
L1	—	—	—	—	—
L3	-41.0	42.2	-1	2.87	91
L4	-41.0	42.2	-1	2.87	91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–260. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-78.5	368.	-69.3	366.
FD	-12.0	-2.14	-9.84	-2.17
L1	—	—	—	—
L3	-84.9	-3.53	-84.8	-3.54
L4	-84.9	-3.53	-84.8	-3.54
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-131. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

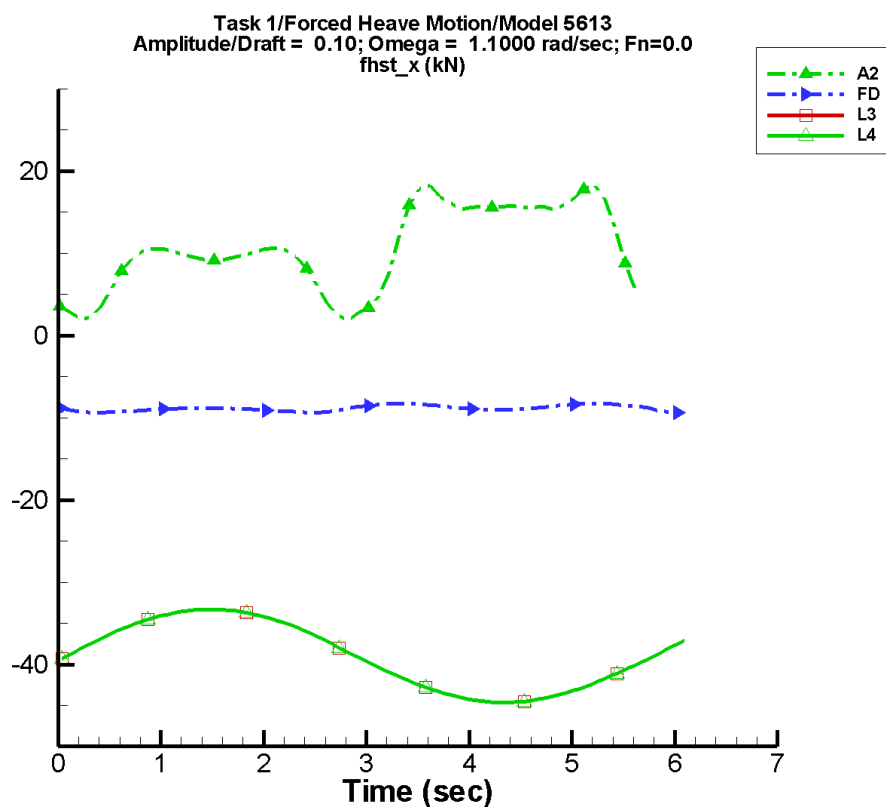
Table A–261. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.10	4.65	173	4.61	-103
FD	-8.84	0.618	-180	2.89E-02	-86
L1	—	—	—	—	—
L3	-39.1	2.86	-4	6.40E-02	-97
L4	-39.1	2.86	-4	6.40E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–262. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.77	16.1	2.51	15.7
FD	-9.37	-8.29	-9.36	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-132. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

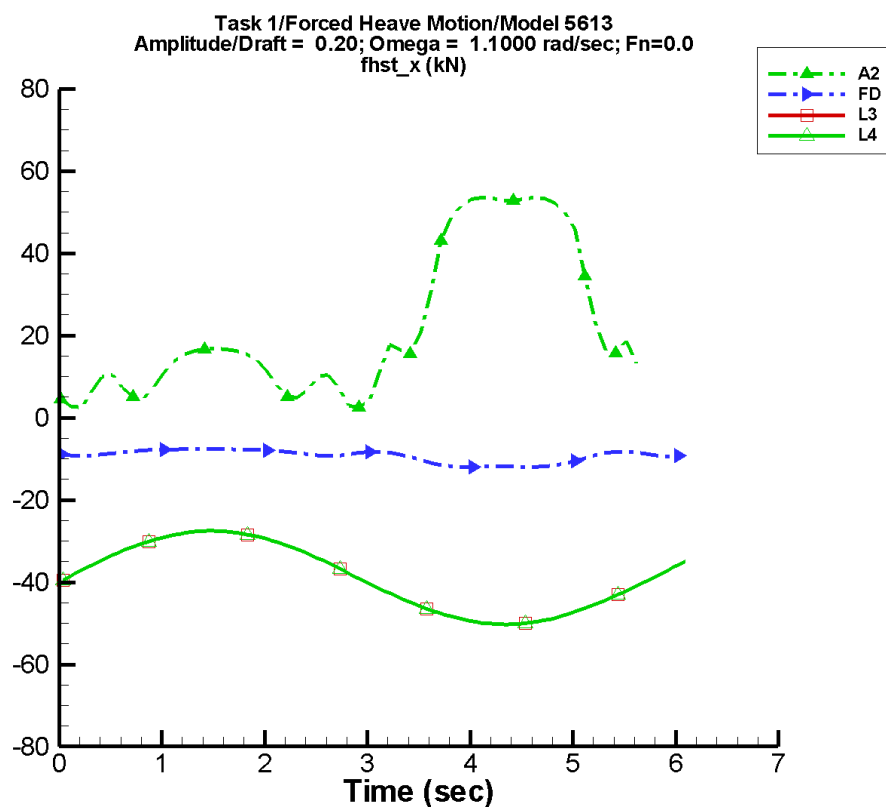
Table A–263. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	3.95	177	4.57	-100
FD	-8.87	0.234	-177	4.88E-02	-83
L1	—	—	—	—	—
L3	-39.0	5.68	-4	7.47E-02	-98
L4	-39.0	5.68	-4	7.47E-02	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–264. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.78	18.3	3.07	16.5
FD	-9.37	-8.29	-9.21	-8.41
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.4
L4	-44.6	-33.3	-44.6	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-133. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

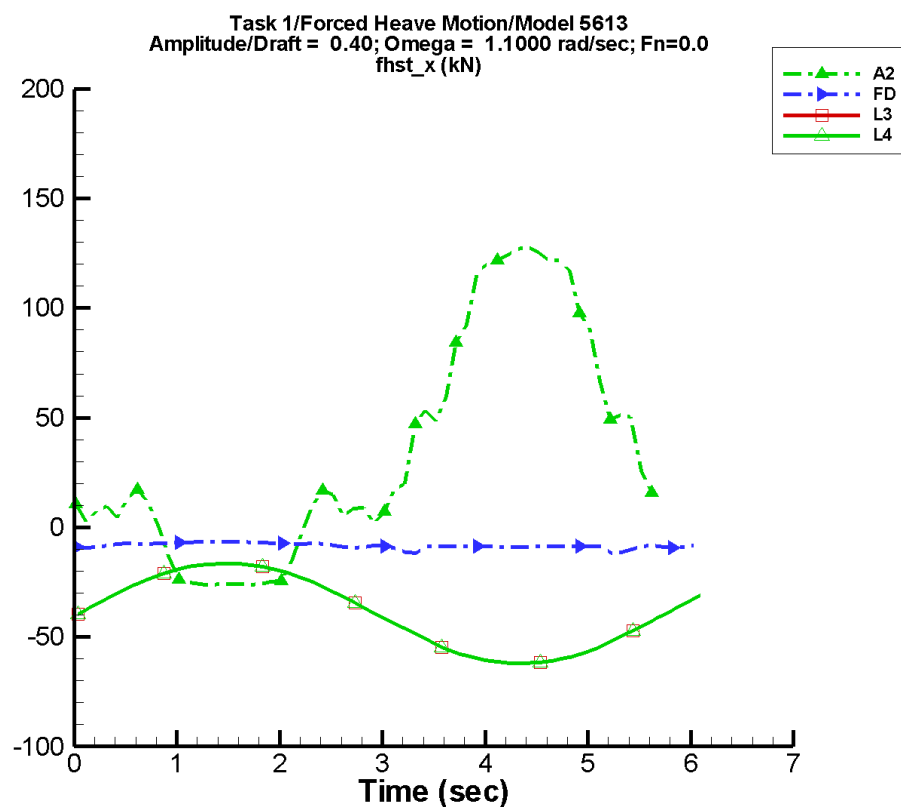
Table A–265. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	21.7	19.5	173	15.2	-102
FD	-9.37	1.88	-1	0.368	87
L1	—	—	—	—	—
L3	-39.0	11.3	-4	8.69E-02	-97
L4	-39.0	11.3	-4	8.69E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–266. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	2.20	53.5	4.72	54.2
FD	-12.0	-7.55	-11.9	-7.60
L1	—	—	—	—
L3	-50.3	-27.5	-50.1	-27.6
L4	-50.3	-27.5	-50.1	-27.6
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-134. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

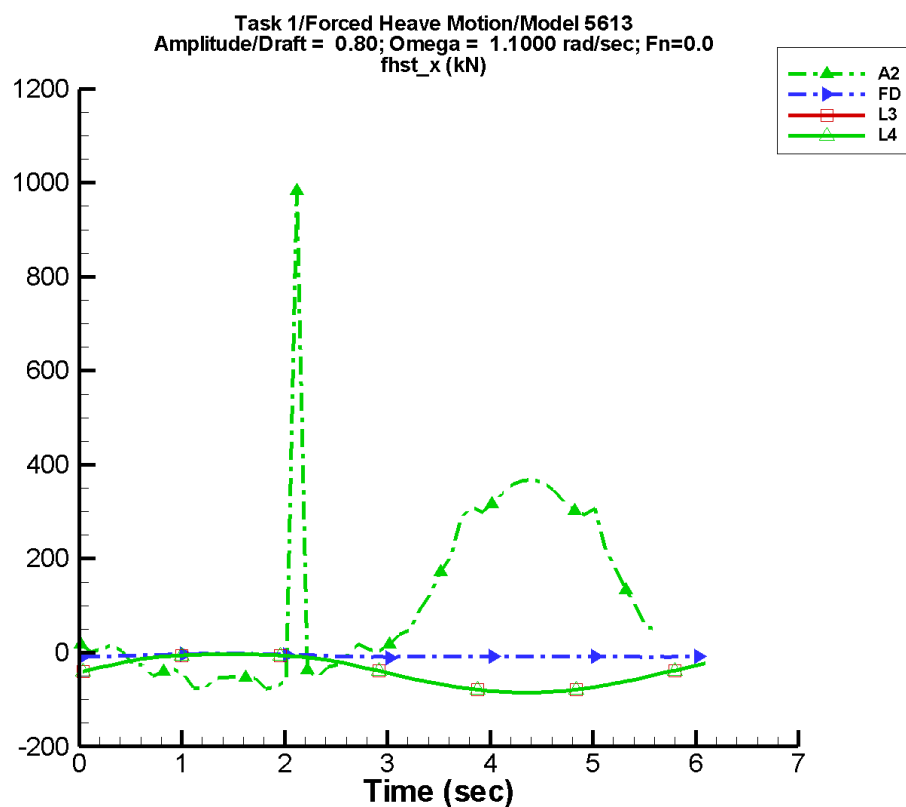
Table A–267. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	34.1	67.8	173	17.8	-97
FD	-8.34	1.15	-2	0.699	-88
L1	—	—	—	—	—
L3	-39.1	23.0	-4	0.144	84
L4	-39.1	23.0	-4	0.144	84
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–268. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-26.8	128.	-27.4	124.
FD	-11.8	-6.63	-9.59	-6.76
L1	—	—	—	—
L3	-62.0	-16.5	-61.7	-16.7
L4	-62.0	-16.5	-61.7	-16.7
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-135. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

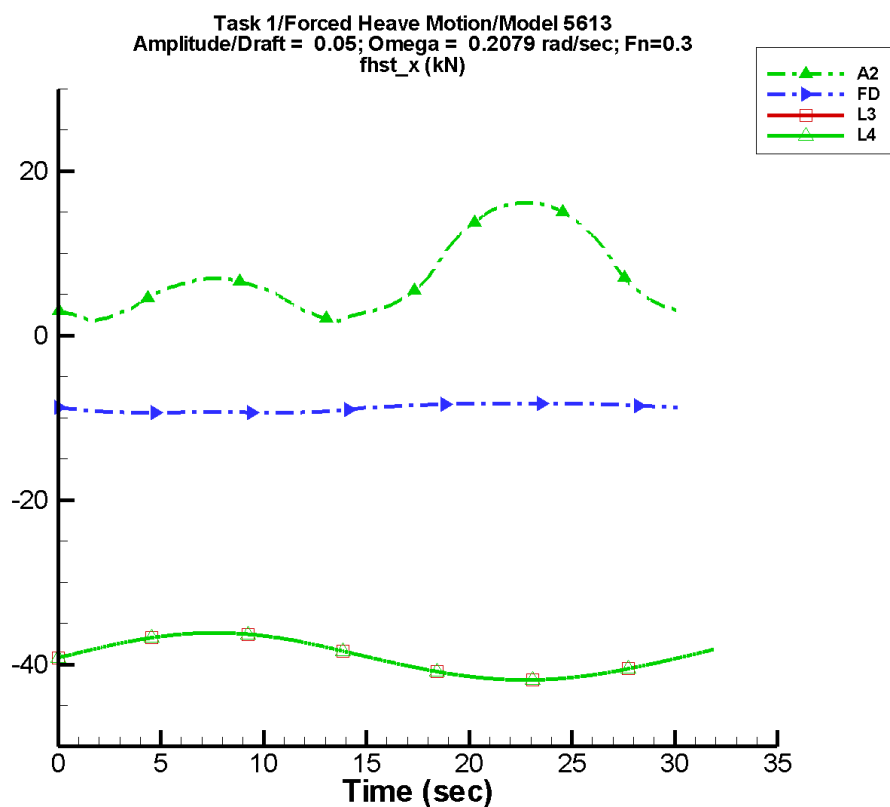
Table A–269. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	107.	176.	179	78.1	-126
FD	-7.06	3.01	0	1.79	-90
L1	—	—	—	—	—
L3	-41.1	42.3	-4	3.13	82
L4	-41.1	42.3	-4	3.13	82
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–270. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-78.3	984.	-69.0	351.
FD	-11.4	-2.14	-9.74	-2.55
L1	—	—	—	—
L3	-84.9	-3.53	-84.4	-3.67
L4	-84.9	-3.53	-84.4	-3.67
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-136. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

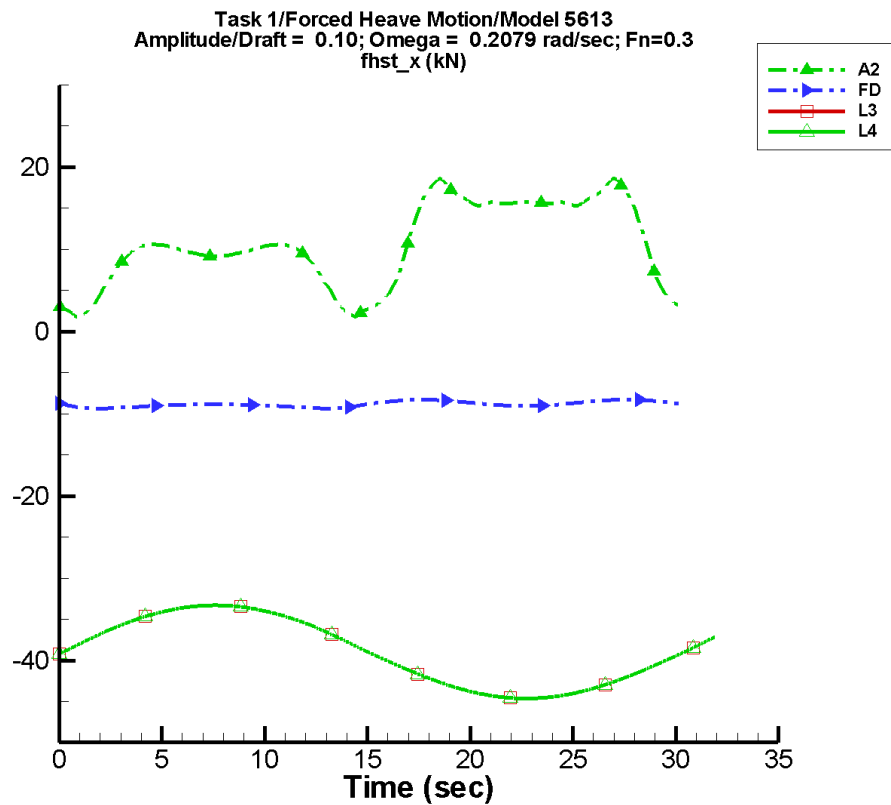
Table A–271. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.10	4.65	179	4.61	-92
FD	-8.84	0.615	-179	2.30E-02	-71
L1	—	—	—	—	—
L3	-39.1	2.86	-1	6.27E-02	-91
L4	-39.1	2.86	-1	6.27E-02	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–272. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	16.2	1.86	16.1
FD	-9.37	-8.29	-9.37	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-137. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

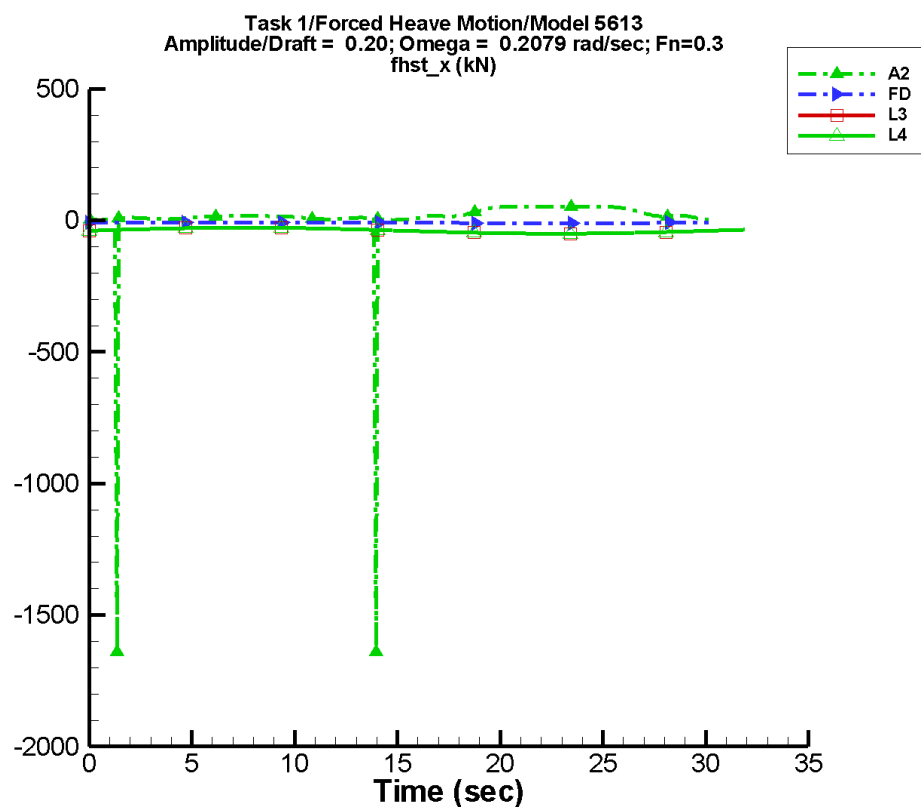
Table A–273. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	4.00	-179	4.43	-90
FD	-8.87	0.232	-167	4.14E-02	-13
L1	—	—	—	—	—
L3	-39.0	5.68	-1	7.23E-02	-91
L4	-39.0	5.68	-1	7.23E-02	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–274. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	18.6	2.04	18.2
FD	-9.37	-8.28	-9.36	-8.29
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.3
L4	-44.6	-33.3	-44.6	-33.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-138. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

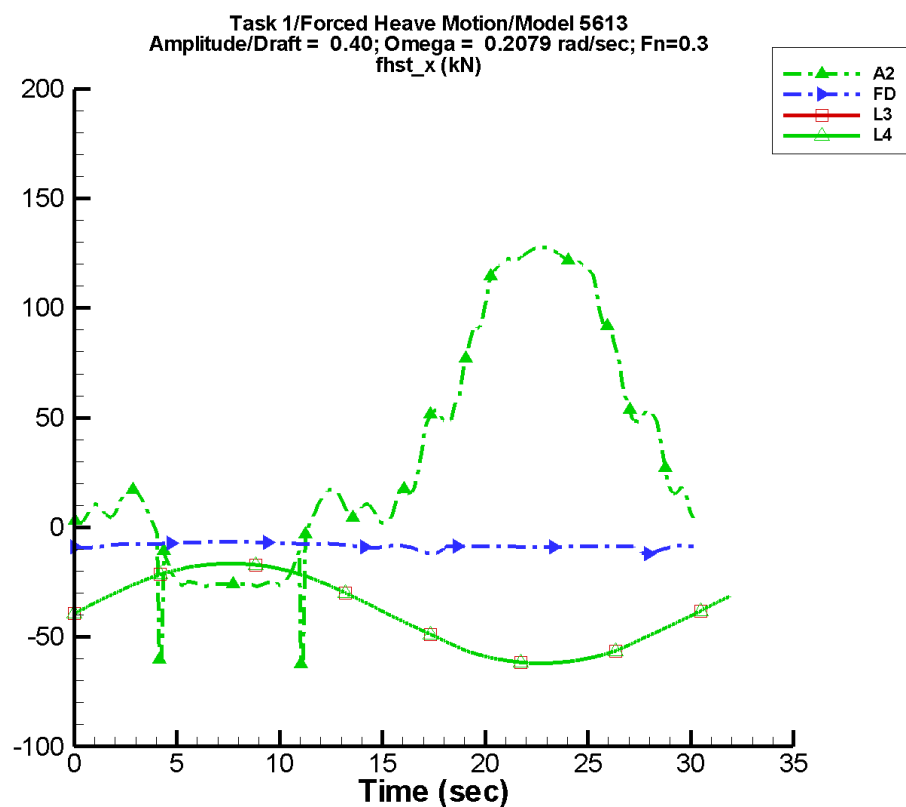
Table A–275. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	12.9	24.3	169	31.0	-88
FD	-9.37	1.91	-3	0.459	83
L1	—	—	—	—	—
L3	-39.0	11.3	-1	8.50E-02	-90
L4	-39.0	11.3	-1	8.50E-02	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–276. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.64E+03	53.5	-212.	53.6
FD	-12.0	-7.55	-11.9	-7.55
L1	—	—	—	—
L3	-50.3	-27.5	-50.3	-27.5
L4	-50.3	-27.5	-50.3	-27.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-139. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

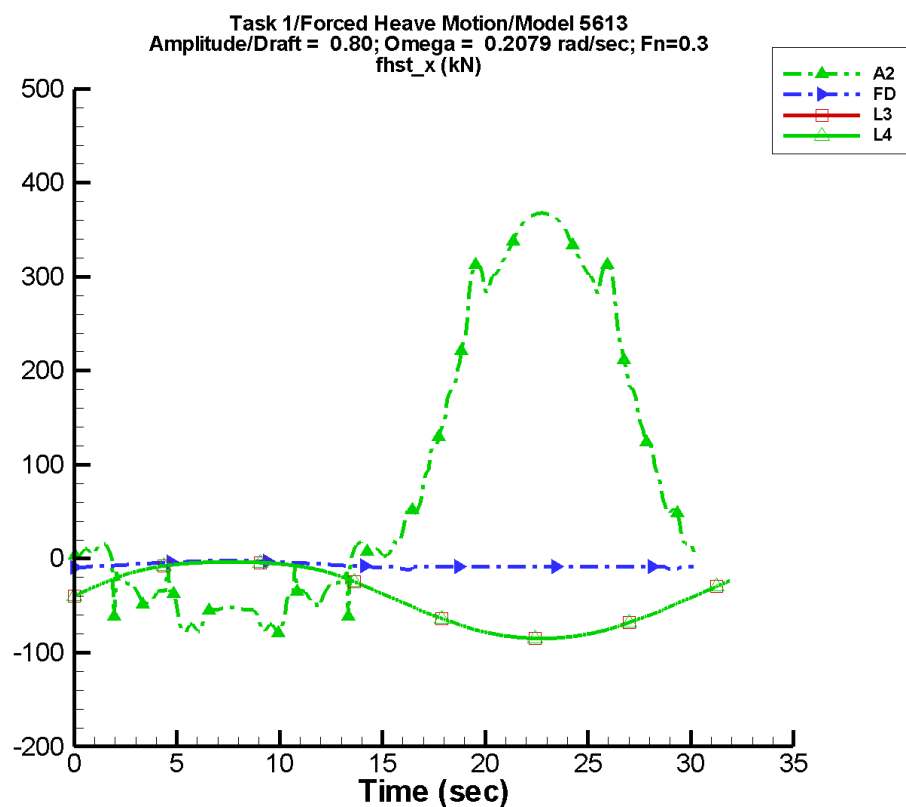
Table A–277. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	33.6	69.2	178	17.0	-87
FD	-8.36	1.15	1	0.768	-92
L1	—	—	—	—	—
L3	-39.1	23.0	-1	0.155	89
L4	-39.1	23.0	-1	0.155	89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–278. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-62.3	128.	-26.5	128.
FD	-12.0	-6.62	-11.7	-6.63
L1	—	—	—	—
L3	-62.0	-16.5	-62.0	-16.5
L4	-62.0	-16.5	-62.0	-16.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-140. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

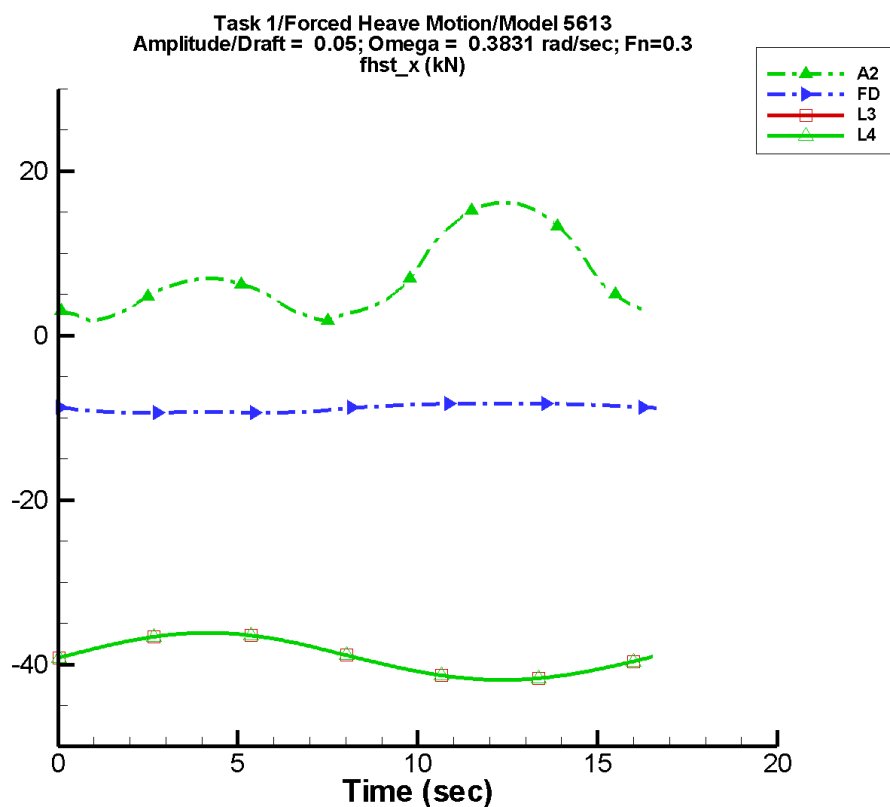
Table A–279. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	90.2	199.	178	67.6	-88
FD	-7.06	3.00	-1	1.77	-89
L1	—	—	—	—	—
L3	-41.1	42.3	-1	3.12	88
L4	-41.1	42.3	-1	3.12	88
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–280. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-80.4	984.	-84.3	367.
FD	-12.0	-2.14	-10.7	-2.15
L1	—	—	—	—
L3	-84.9	-3.53	-84.9	-3.53
L4	-84.9	-3.53	-84.9	-3.53
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-141. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

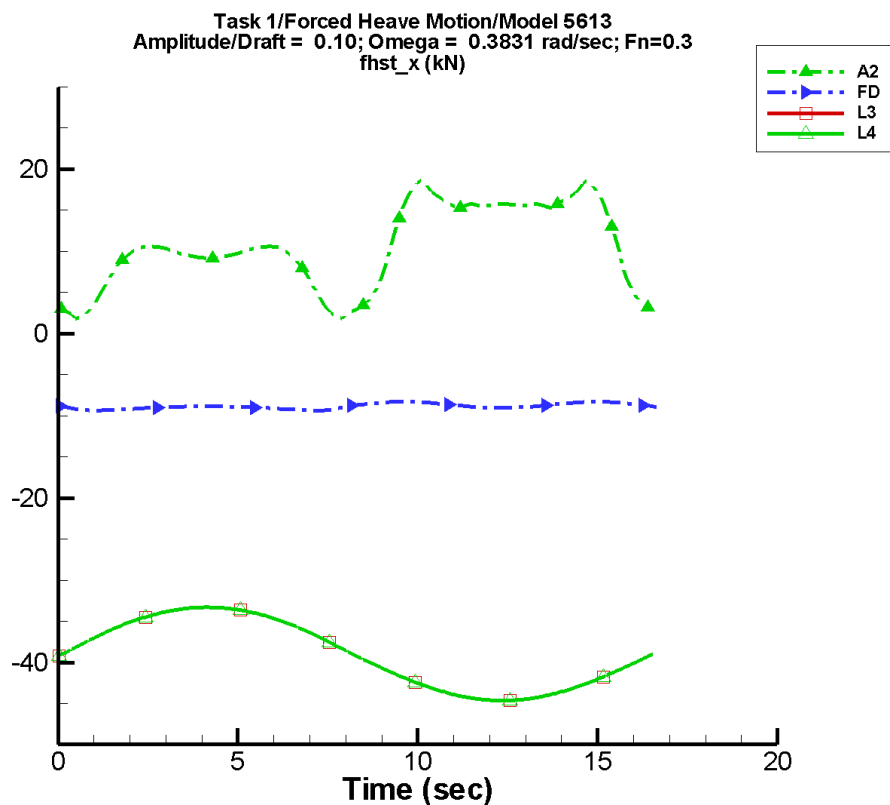
Table A–281. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.10	4.65	178	4.61	-94
FD	-8.84	0.612	-179	1.72E-02	-70
L1	—	—	—	—	—
L3	-39.1	2.86	-1	6.25E-02	-91
L4	-39.1	2.86	-1	6.25E-02	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–282. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.77	16.2	2.00	16.1
FD	-9.37	-8.28	-9.37	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-142. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

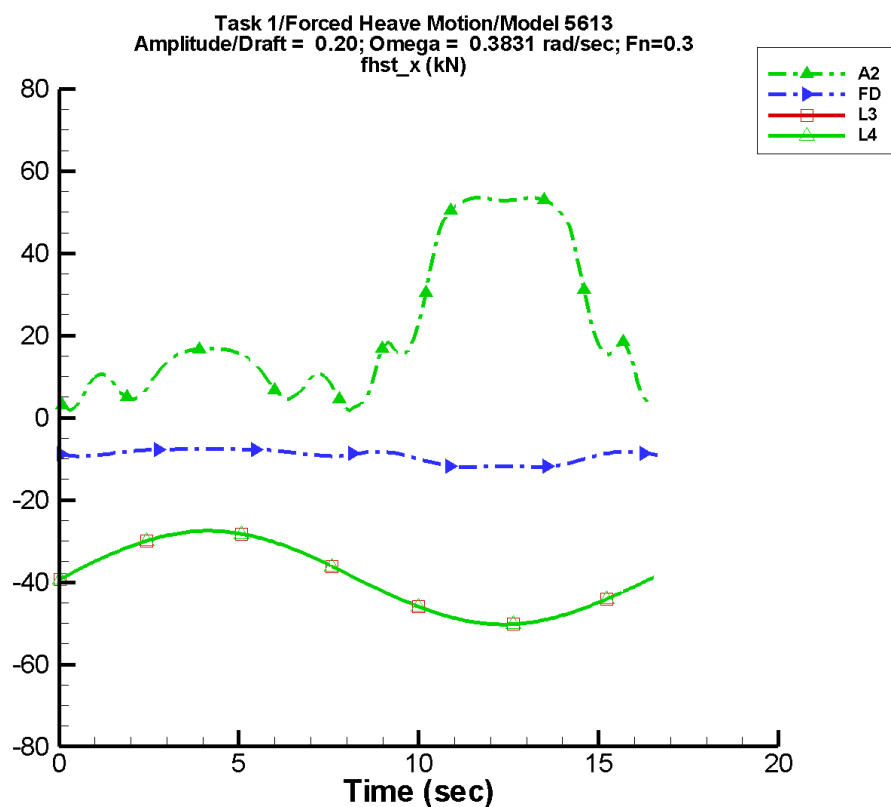
Table A–283. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	4.02	-180	4.42	-92
FD	-8.87	0.217	-169	3.37E-02	30
L1	—	—	—	—	—
L3	-39.0	5.68	-1	7.63E-02	-92
L4	-39.0	5.68	-1	7.63E-02	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–284. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	18.6	2.32	17.8
FD	-9.37	-8.28	-9.35	-8.30
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.3
L4	-44.6	-33.3	-44.6	-33.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-143. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

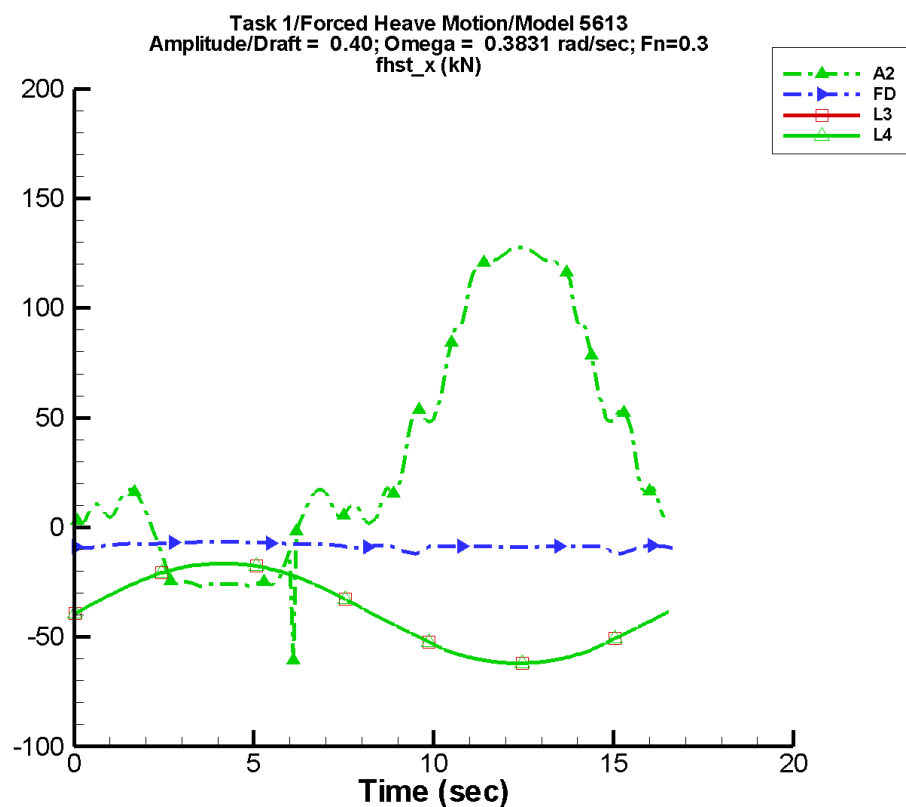
Table A–285. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	21.7	19.6	177	15.1	-94
FD	-9.38	1.93	-3	0.480	81
L1	—	—	—	—	—
L3	-39.0	11.4	-1	8.36E-02	-89
L4	-39.0	11.4	-1	8.36E-02	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–286. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.76	53.5	2.56	53.3
FD	-12.0	-7.55	-11.9	-7.56
L1	—	—	—	—
L3	-50.3	-27.5	-50.3	-27.5
L4	-50.3	-27.5	-50.3	-27.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-144. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

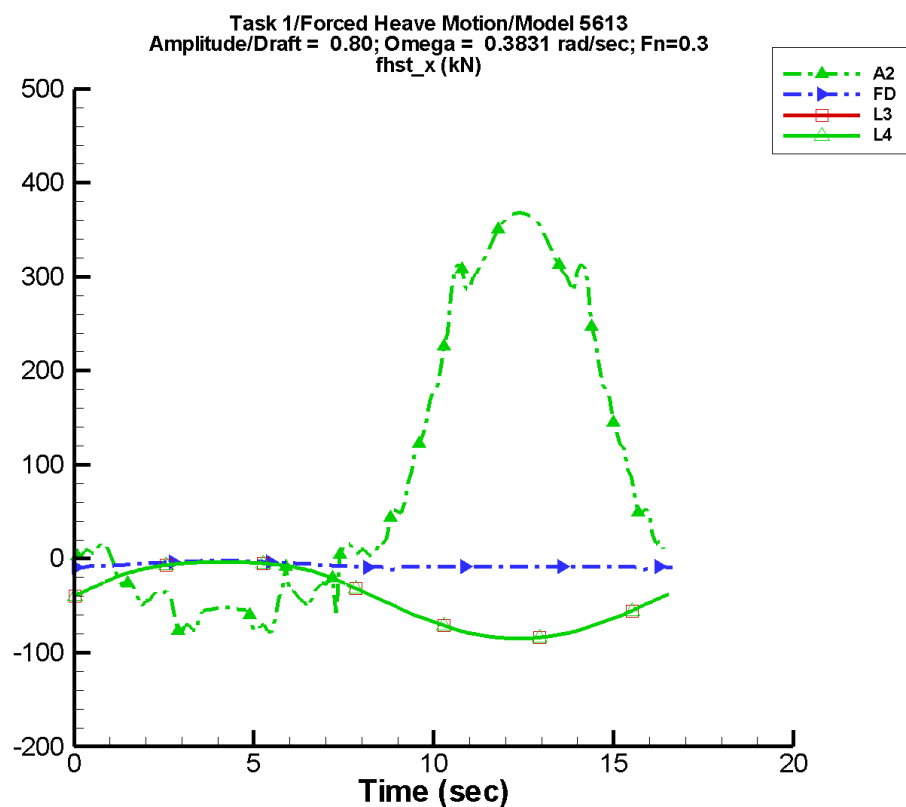
Table A–287. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	33.8	68.8	176	17.1	-87
FD	-8.34	1.13	3	0.767	-95
L1	—	—	—	—	—
L3	-39.1	23.0	-1	0.134	94
L4	-39.1	23.0	-1	0.134	94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–288. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-60.6	128.	-26.2	126.
FD	-12.0	-6.63	-11.0	-6.64
L1	—	—	—	—
L3	-62.0	-16.5	-61.9	-16.5
L4	-62.0	-16.5	-61.9	-16.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-145. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

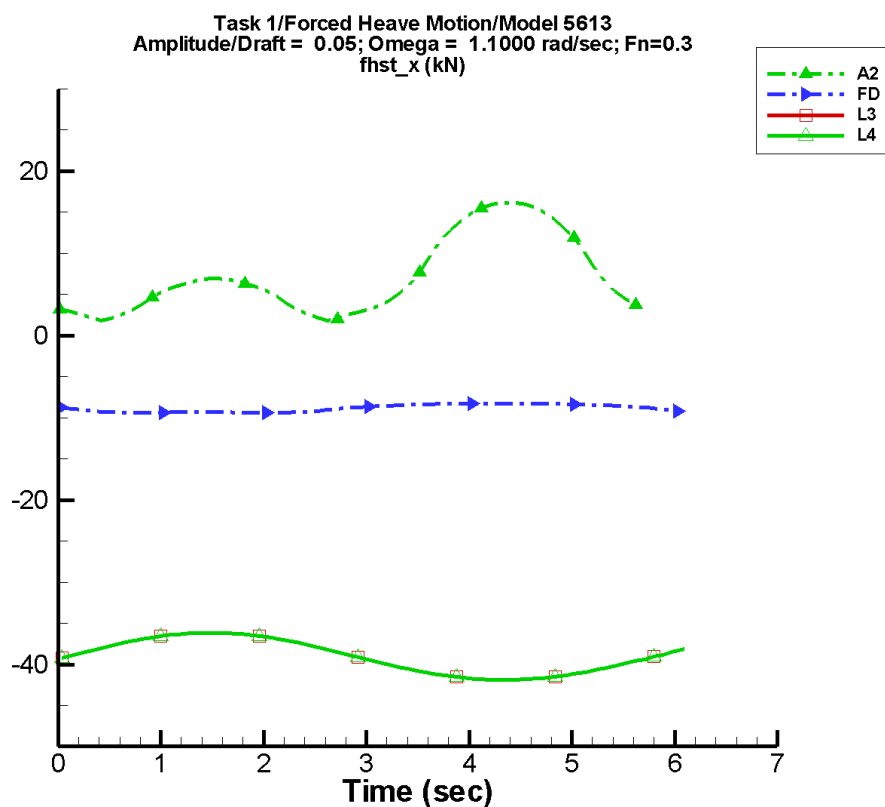
Table A–289. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	88.5	202.	177	65.9	-93
FD	-7.06	3.01	0	1.74	-89
L1	—	—	—	—	—
L3	-41.0	42.2	-1	2.87	91
L4	-41.0	42.2	-1	2.87	91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–290. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-78.5	368.	-69.3	366.
FD	-12.0	-2.14	-9.84	-2.17
L1	—	—	—	—
L3	-84.9	-3.53	-84.8	-3.54
L4	-84.9	-3.53	-84.8	-3.54
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-146. Time history of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

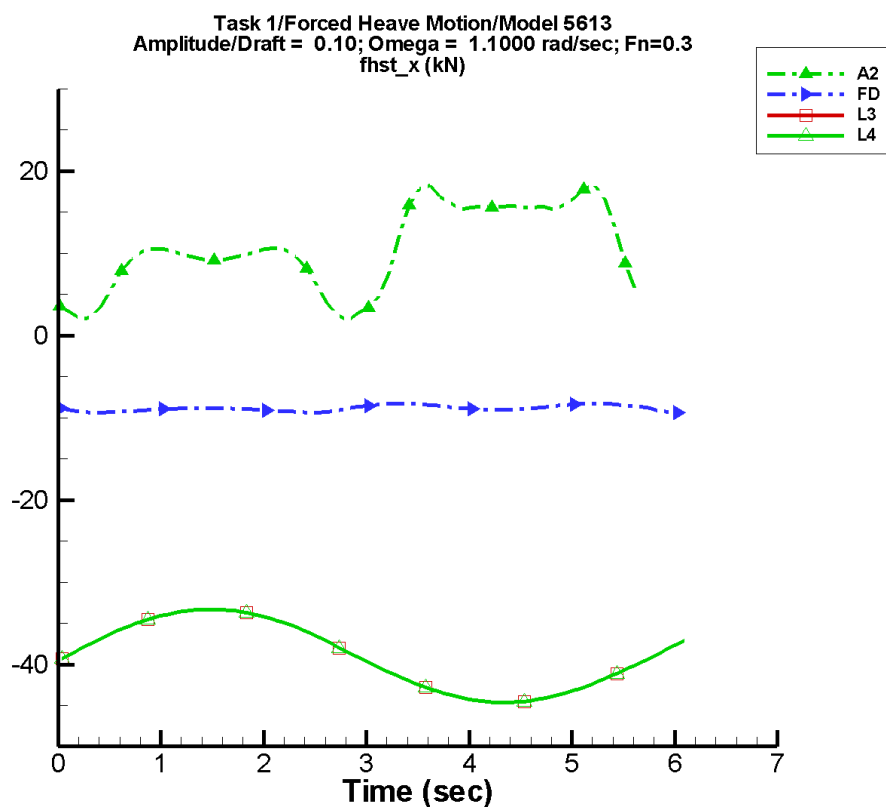
Table A–291. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.10	4.65	173	4.61	-103
FD	-8.84	0.618	-180	2.89E-02	-87
L1	—	—	—	—	—
L3	-39.1	2.86	-4	6.40E-02	-97
L4	-39.1	2.86	-4	6.40E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–292. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.77	16.1	2.51	15.7
FD	-9.37	-8.29	-9.36	-8.29
L1	—	—	—	—
L3	-41.9	-36.2	-41.9	-36.2
L4	-41.9	-36.2	-41.9	-36.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-147. Time history of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

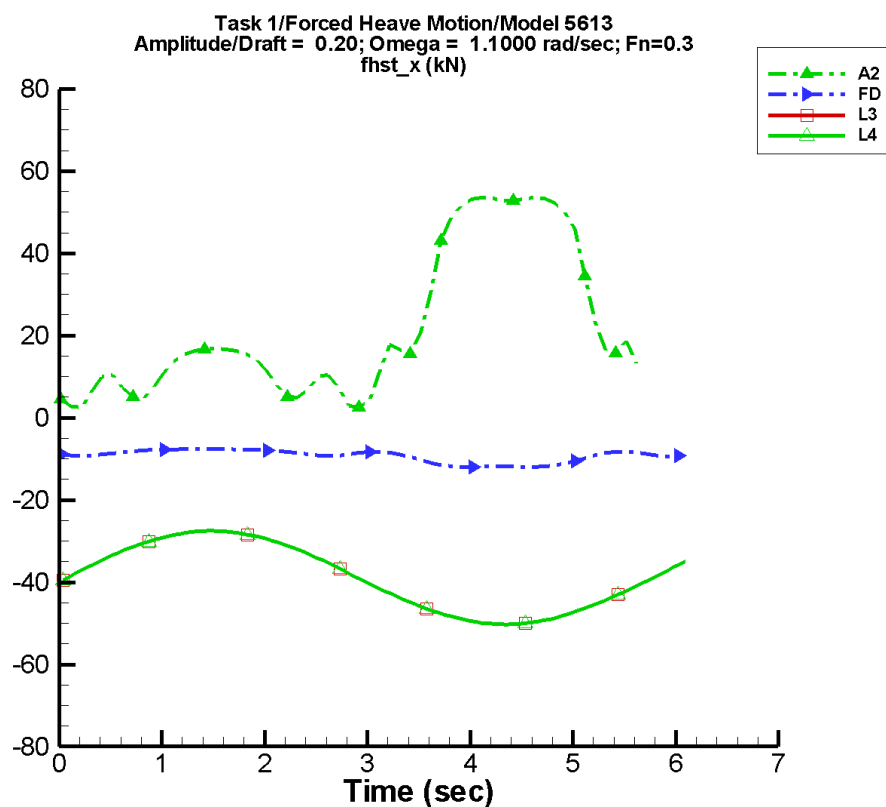
Table A–293. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	10.5	3.95	177	4.57	-100
FD	-8.87	0.234	-177	4.87E-02	-83
L1	—	—	—	—	—
L3	-39.0	5.68	-4	7.47E-02	-98
L4	-39.0	5.68	-4	7.47E-02	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–294. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.78	18.3	3.07	16.5
FD	-9.37	-8.29	-9.21	-8.41
L1	—	—	—	—
L3	-44.6	-33.3	-44.6	-33.4
L4	-44.6	-33.3	-44.6	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-148. Time history of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

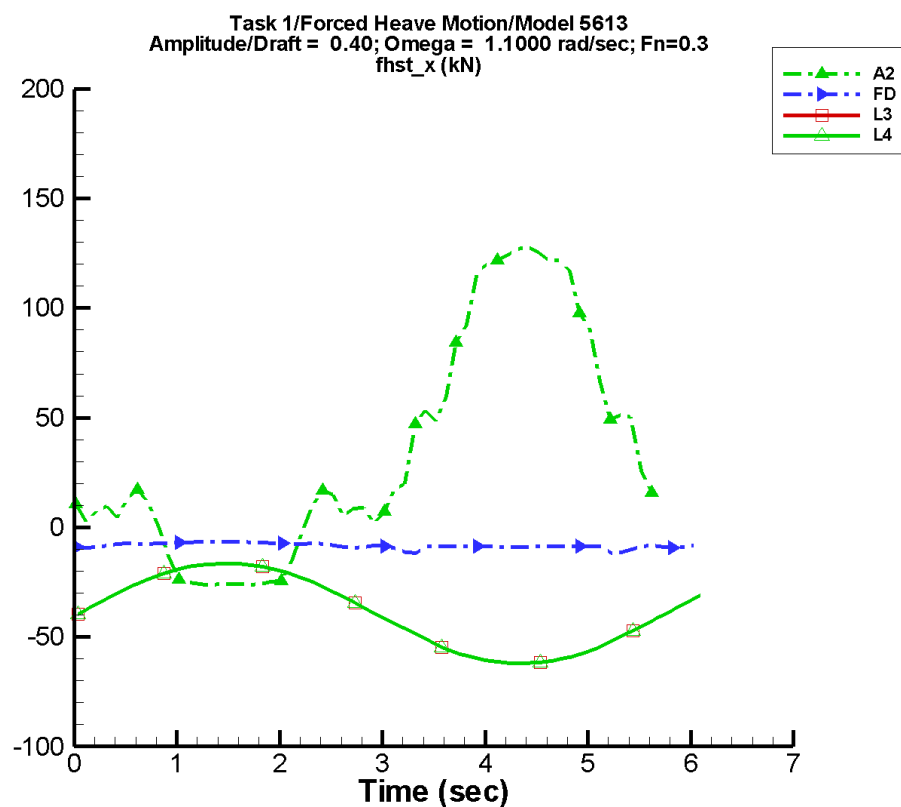
Table A–295. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	21.7	19.5	173	15.2	-102
FD	-9.37	1.88	-1	0.368	87
L1	—	—	—	—	—
L3	-39.0	11.3	-4	8.69E-02	-97
L4	-39.0	11.3	-4	8.69E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–296. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	2.20	53.5	4.72	54.2
FD	-12.0	-7.55	-11.9	-7.60
L1	—	—	—	—
L3	-50.3	-27.5	-50.1	-27.6
L4	-50.3	-27.5	-50.1	-27.6
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-149. Time history of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

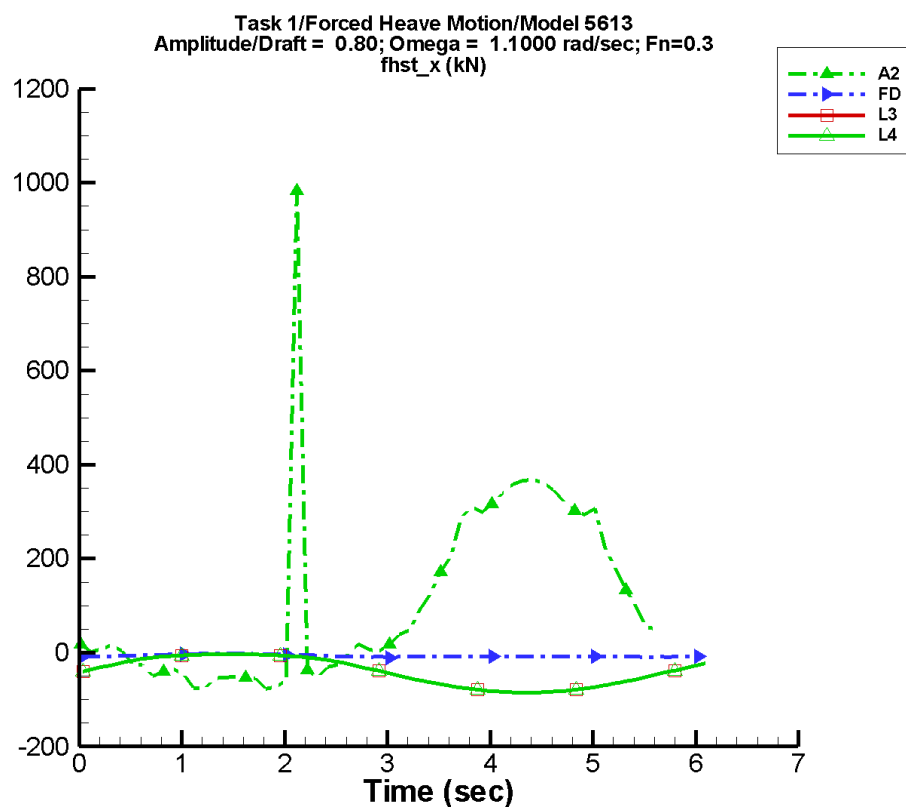
Table A–297. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	34.1	67.8	173	17.8	-97
FD	-8.34	1.15	-2	0.699	-88
L1	—	—	—	—	—
L3	-39.1	23.0	-4	0.144	84
L4	-39.1	23.0	-4	0.144	84
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–298. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-26.8	128.	-27.4	124.
FD	-11.8	-6.63	-9.59	-6.76
L1	—	—	—	—
L3	-62.0	-16.5	-61.7	-16.7
L4	-62.0	-16.5	-61.7	-16.7
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-150. Time history of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

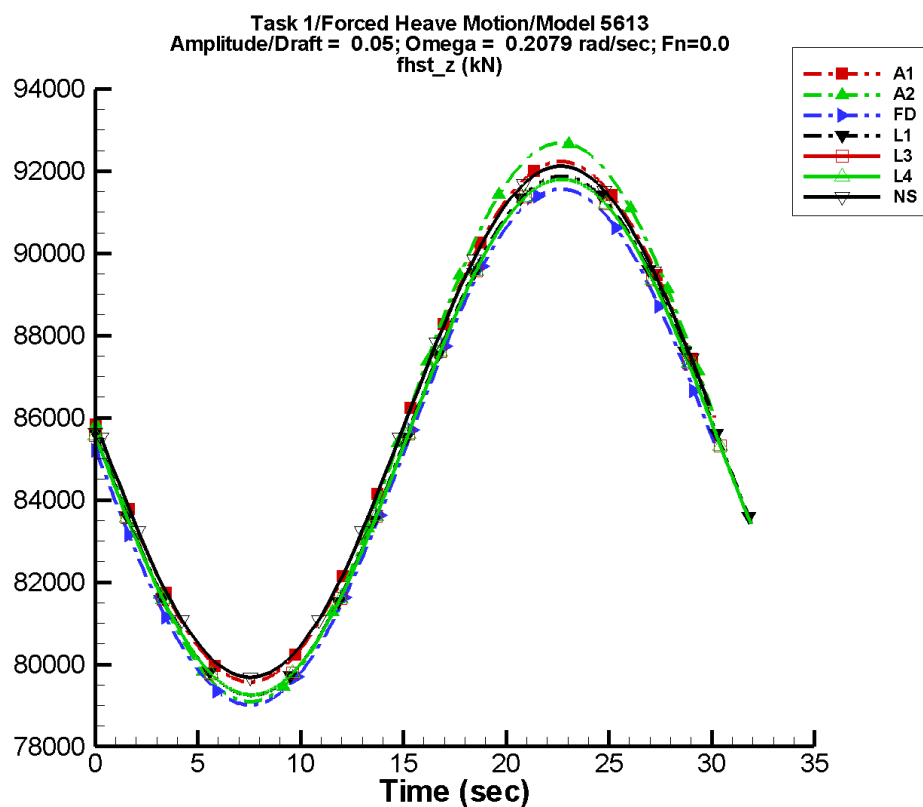
Table A–299. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	107.	176.	179	78.1	-126
FD	-7.06	3.01	0	1.79	-90
L1	—	—	—	—	—
L3	-41.1	42.3	-4	3.13	82
L4	-41.1	42.3	-4	3.13	82
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–300. Minimum and maximum of F_x^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-78.3	984.	-69.0	351.
FD	-11.4	-2.14	-9.74	-2.55
L1	—	—	—	—
L3	-84.9	-3.53	-84.4	-3.67
L4	-84.9	-3.53	-84.4	-3.67
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-151. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

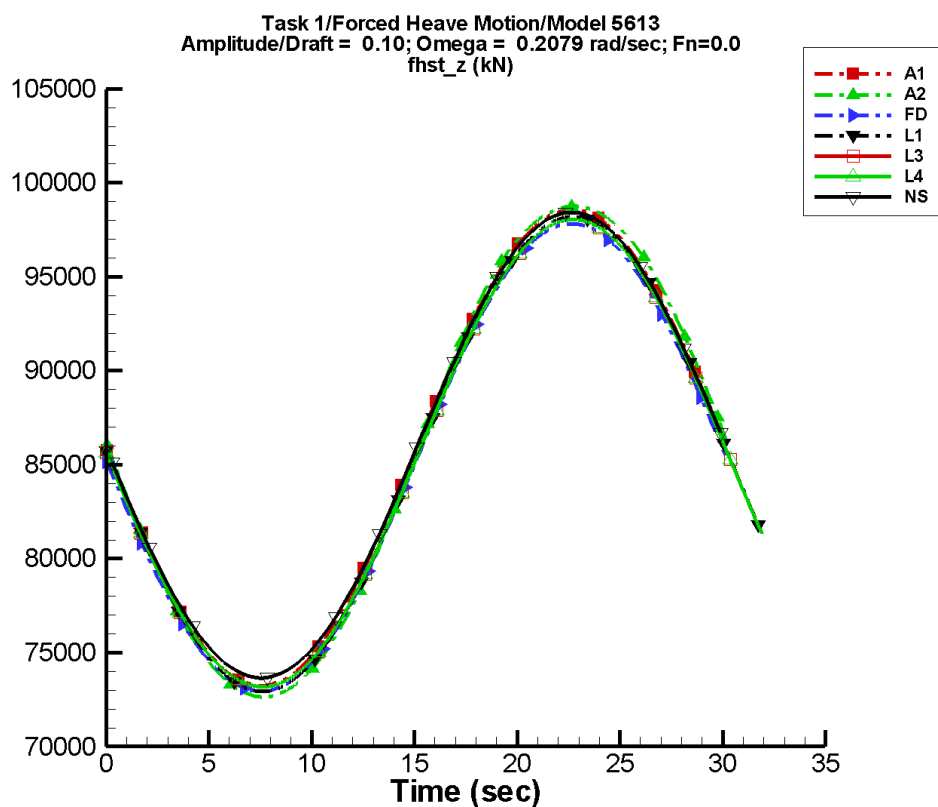
Table A–301. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	180	1.03E-02	141
A2	8.59E+04	6.82E+03	-180	2.77	138
FD	8.53E+04	6.28E+03	-180	13.8	-87
L1	8.56E+04	6.32E+03	179	9.49E-03	-154
L3	8.55E+04	6.28E+03	179	11.0	-93
L4	8.55E+04	6.28E+03	179	11.0	-93
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.07	-90

Table A–302. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.96E+04	9.22E+04
A2	7.91E+04	9.27E+04	7.91E+04	9.27E+04
FD	7.90E+04	9.16E+04	7.90E+04	9.16E+04
L1	7.92E+04	9.19E+04	7.92E+04	9.19E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.18E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.18E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-152. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

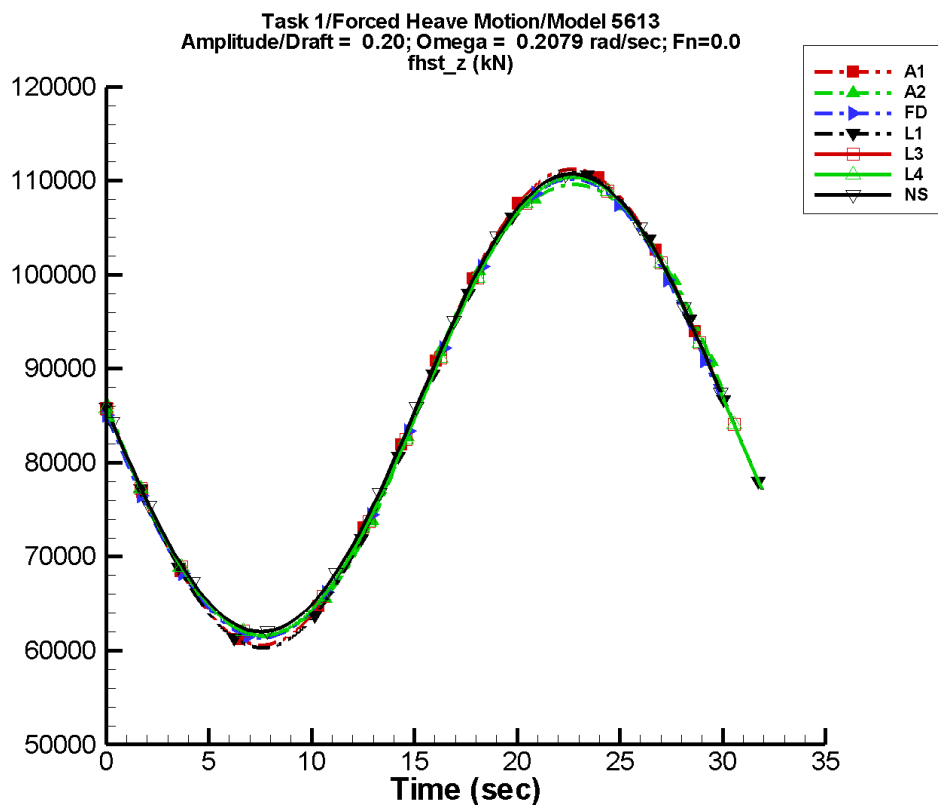
Table A–303. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	180	1.69E-02	124
A2	8.58E+04	1.32E+04	179	75.4	97
FD	8.53E+04	1.25E+04	-180	62.0	-87
L1	8.56E+04	1.26E+04	179	1.27E-02	157
L3	8.56E+04	1.25E+04	179	59.0	-93
L4	8.56E+04	1.25E+04	179	59.0	-93
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.0	-90

Table A–304. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.32E+04	9.86E+04
A2	7.26E+04	9.88E+04	7.27E+04	9.87E+04
FD	7.29E+04	9.78E+04	7.29E+04	9.78E+04
L1	7.29E+04	9.82E+04	7.29E+04	9.82E+04
L3	7.32E+04	9.80E+04	7.32E+04	9.80E+04
L4	7.32E+04	9.80E+04	7.32E+04	9.80E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-153. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

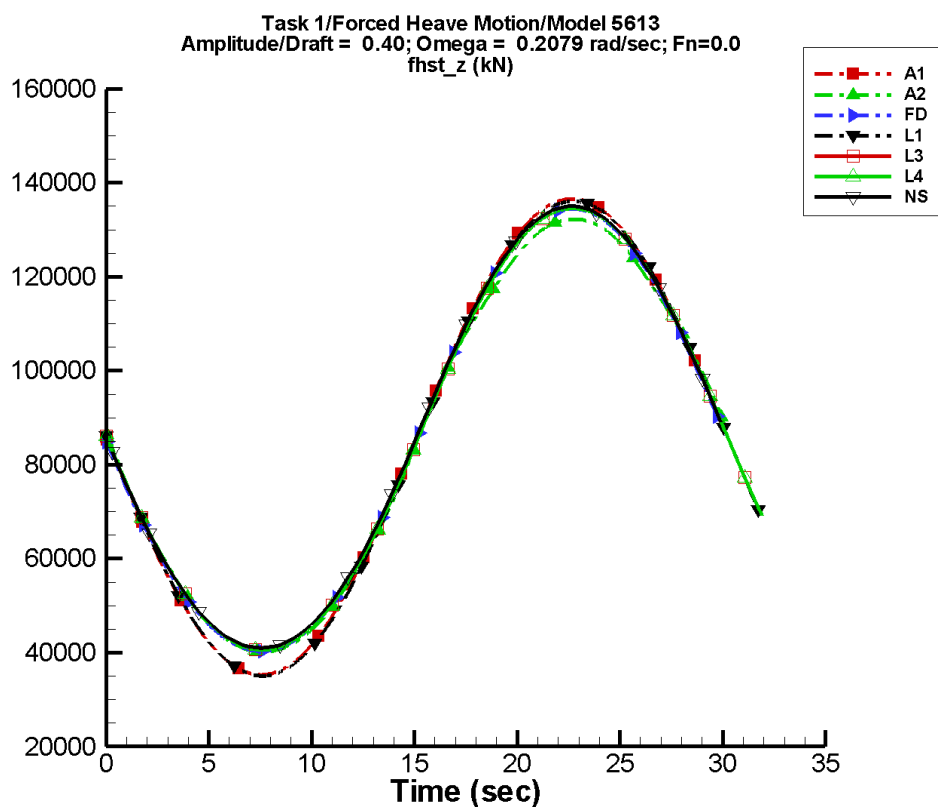
Table A–305. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	180	3.26E-02	159
A2	8.57E+04	2.46E+04	179	83.9	132
FD	8.55E+04	2.46E+04	-180	286.	-87
L1	8.56E+04	2.53E+04	179	1.96E-02	-170
L3	8.57E+04	2.45E+04	179	287.	-92
L4	8.57E+04	2.45E+04	179	287.	-92
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	243.	-90

Table A–306. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.06E+04	1.11E+05
A2	6.15E+04	1.10E+05	6.16E+04	1.10E+05
FD	6.14E+04	1.10E+05	6.14E+04	1.10E+05
L1	6.03E+04	1.11E+05	6.03E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.16E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.16E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.22E+04	1.10E+05

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

Figure A-154. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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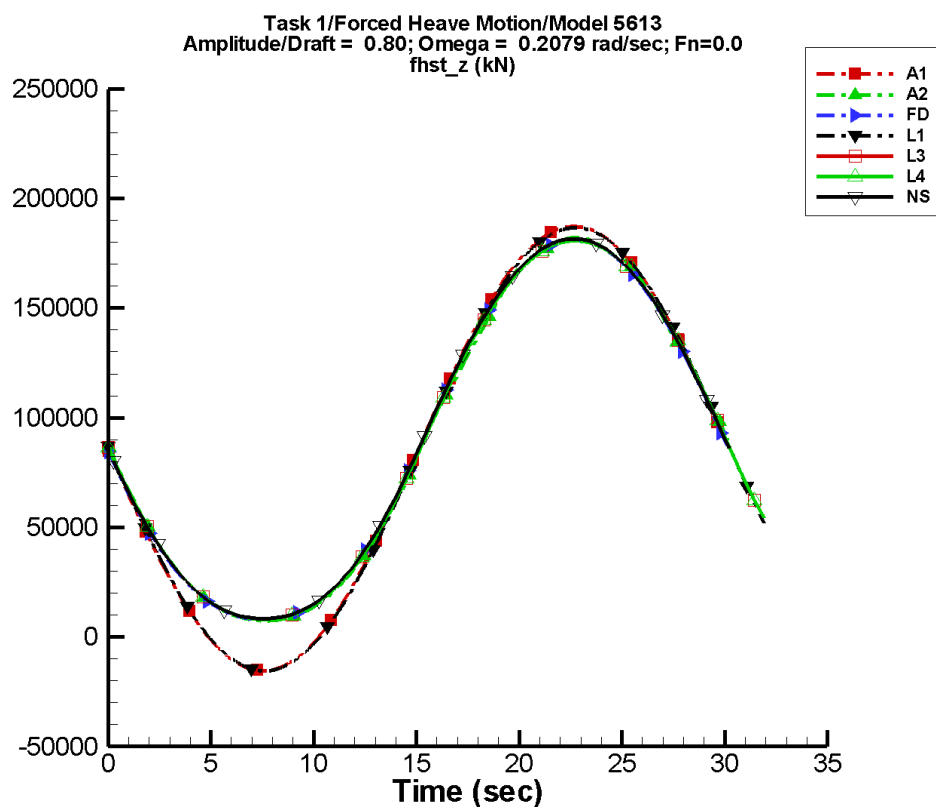
Table A–307. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	180	7.53E-02	162
A2	8.57E+04	4.66E+04	179	350.	-104
FD	8.63E+04	4.76E+04	-180	1.17E+03	-87
L1	8.56E+04	5.05E+04	179	2.88E-02	147
L3	8.65E+04	4.75E+04	179	1.17E+03	-92
L4	8.65E+04	4.75E+04	179	1.17E+03	-92
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–308. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.52E+04	1.36E+05
A2	4.02E+04	1.32E+05	4.02E+04	1.32E+05
FD	4.03E+04	1.34E+05	4.04E+04	1.34E+05
L1	3.50E+04	1.36E+05	3.51E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.06E+04	1.35E+05
L4	4.06E+04	1.35E+05	4.06E+04	1.35E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

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

Figure A-155. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

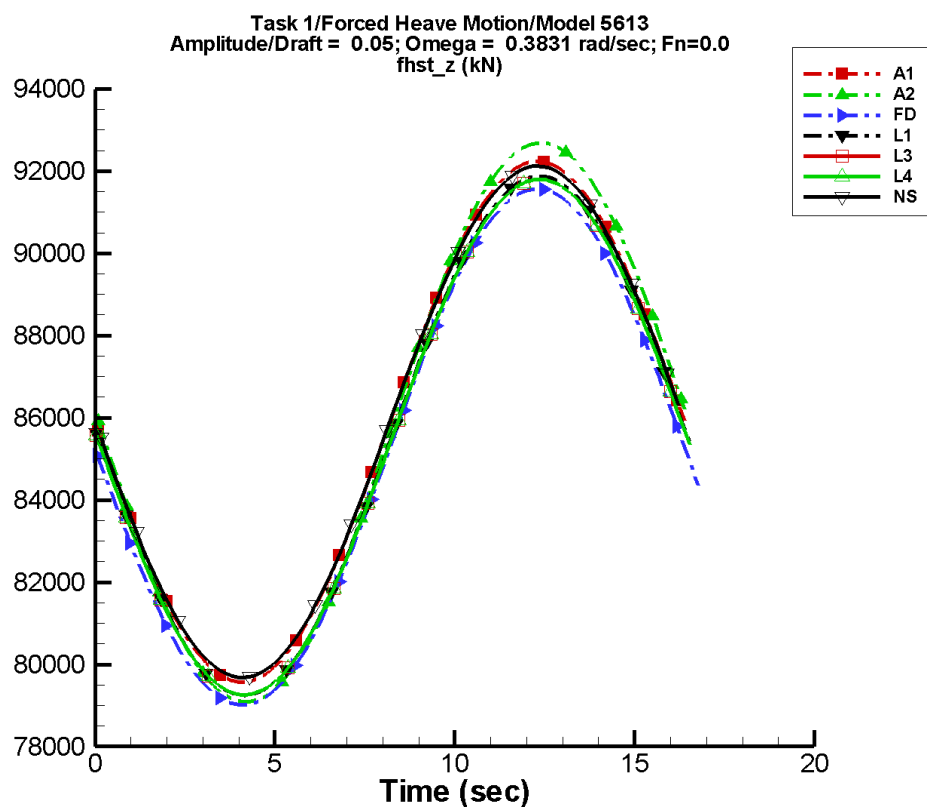
Table A–309. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	180	0.113	165
A2	8.95E+04	8.92E+04	179	5.16E+03	-94
FD	8.96E+04	8.89E+04	-180	4.94E+03	-87
L1	8.56E+04	1.01E+05	179	1.85E-02	129
L3	8.97E+04	8.87E+04	179	4.98E+03	-92
L4	8.97E+04	8.87E+04	179	4.98E+03	-92
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	180	4.50E+03	-90

Table A–310. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.54E+04	1.87E+05
A2	7.38E+03	1.82E+05	7.37E+03	1.82E+05
FD	7.92E+03	1.81E+05	7.97E+03	1.81E+05
L1	-1.55E+04	1.87E+05	-1.54E+04	1.87E+05
L3	8.02E+03	1.81E+05	8.04E+03	1.81E+05
L4	8.02E+03	1.81E+05	8.04E+03	1.81E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

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

Figure A-156. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

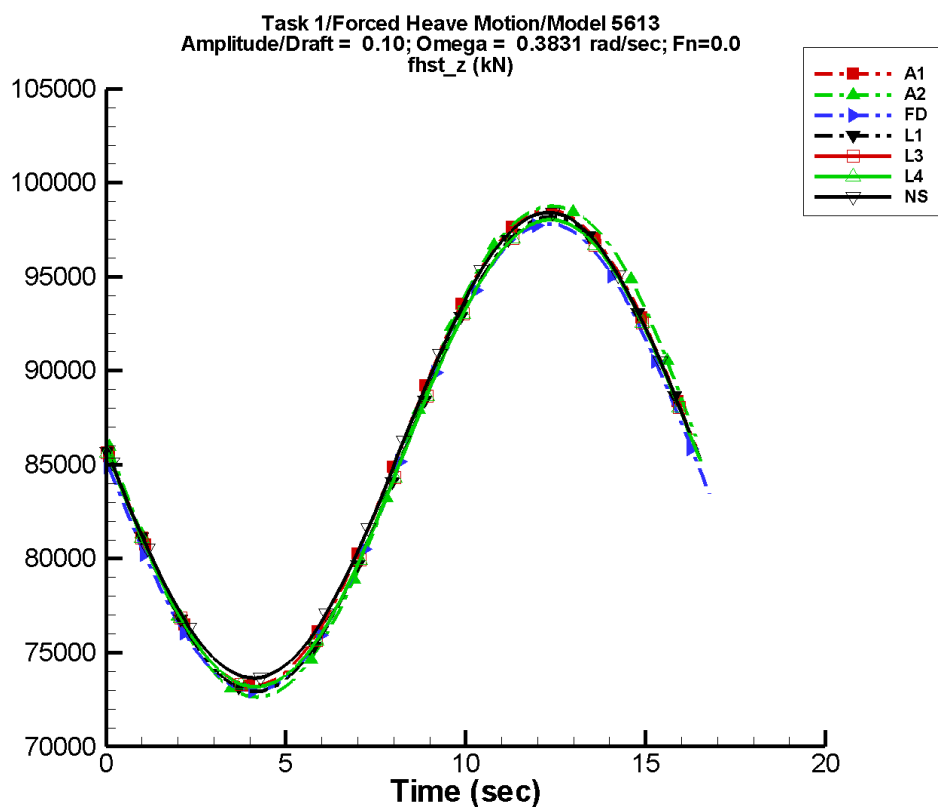
Table A–311. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	-180	5.29E-03	143
A2	8.59E+04	6.82E+03	178	2.80	134
FD	8.53E+04	6.28E+03	-180	13.3	-88
L1	8.56E+04	6.31E+03	179	9.14E-03	-166
L3	8.55E+04	6.28E+03	179	10.0	-87
L4	8.55E+04	6.28E+03	179	10.0	-87
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.35	-73

Table A–312. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.96E+04	9.22E+04
A2	7.91E+04	9.27E+04	7.91E+04	9.27E+04
FD	7.90E+04	9.16E+04	7.90E+04	9.15E+04
L1	7.92E+04	9.19E+04	7.93E+04	9.19E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.18E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.18E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

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

Figure A-157. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

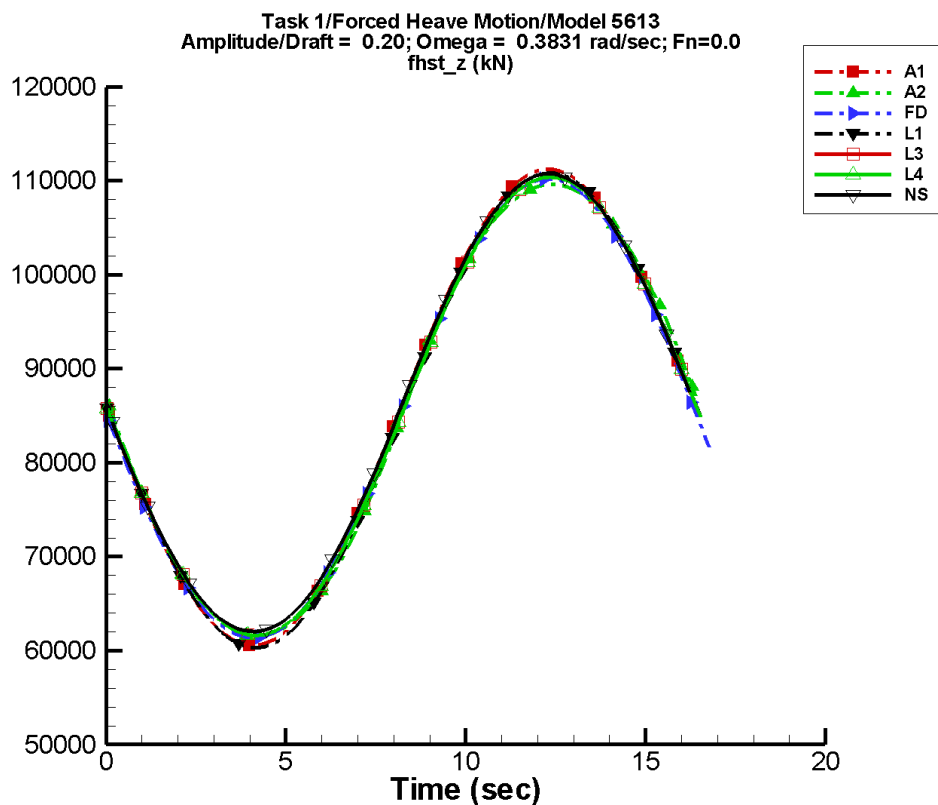
Table A–313. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	-180	5.72E-03	161
A2	8.58E+04	1.32E+04	178	74.4	95
FD	8.53E+04	1.25E+04	-180	59.9	-88
L1	8.56E+04	1.26E+04	179	1.06E-02	-164
L3	8.56E+04	1.25E+04	179	54.0	-88
L4	8.56E+04	1.25E+04	179	54.0	-88
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.5	-90

Table A–314. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.32E+04	9.85E+04
A2	7.26E+04	9.88E+04	7.26E+04	9.87E+04
FD	7.29E+04	9.78E+04	7.30E+04	9.78E+04
L1	7.29E+04	9.82E+04	7.29E+04	9.82E+04
L3	7.32E+04	9.80E+04	7.32E+04	9.80E+04
L4	7.32E+04	9.80E+04	7.32E+04	9.80E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

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

Figure A-158. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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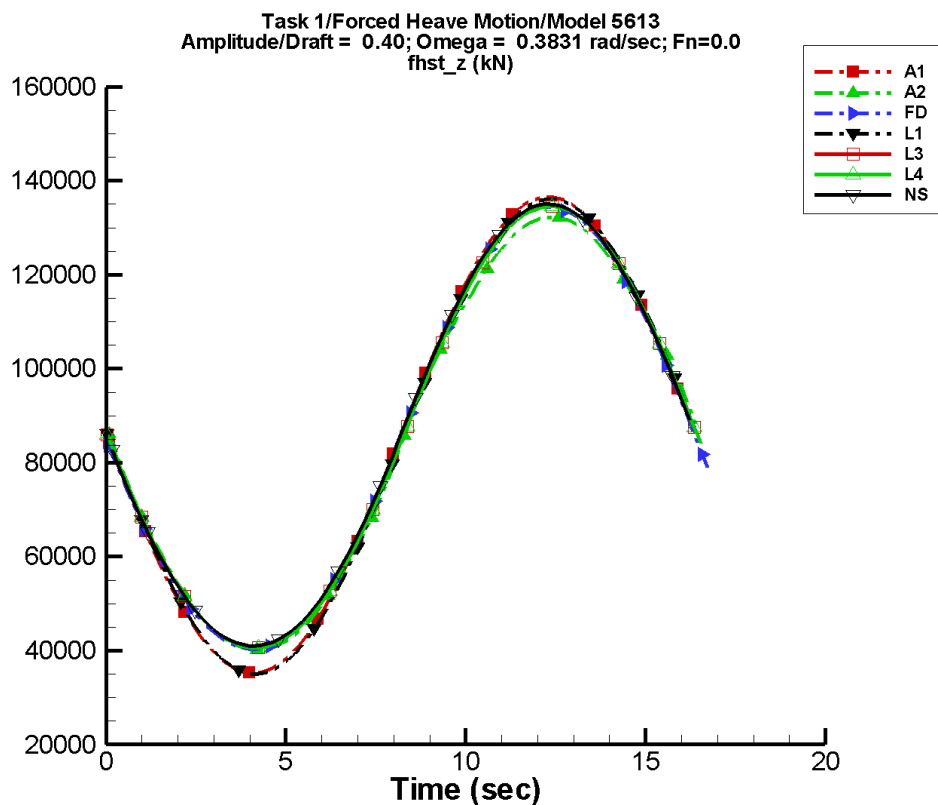
Table A–315. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	-180	1.05E-02	-136
A2	8.57E+04	2.46E+04	178	79.4	134
FD	8.55E+04	2.46E+04	-180	277.	-88
L1	8.56E+04	2.53E+04	179	1.12E-02	-70
L3	8.57E+04	2.45E+04	179	266.	-88
L4	8.57E+04	2.45E+04	179	266.	-88
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	242.	-90

Table A–316. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.05E+04	1.11E+05
A2	6.15E+04	1.10E+05	6.15E+04	1.10E+05
FD	6.14E+04	1.10E+05	6.14E+04	1.10E+05
L1	6.03E+04	1.11E+05	6.03E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.16E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.16E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.23E+04	1.10E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-159. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

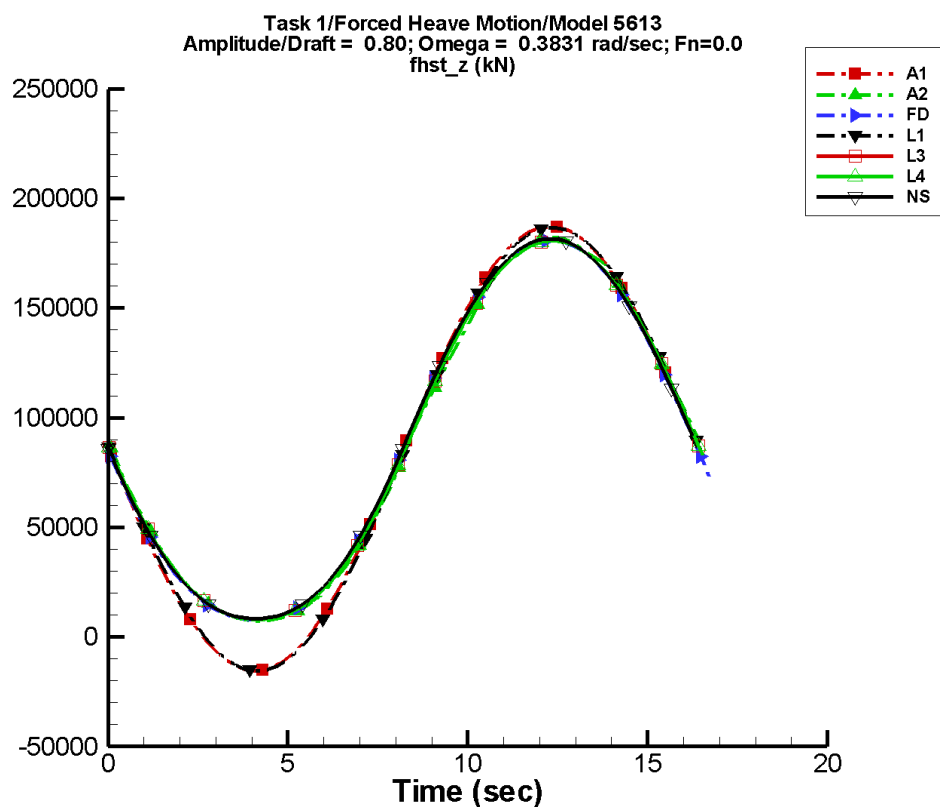
Table A–317. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	-180	8.94E-03	145
A2	8.57E+04	4.66E+04	178	356.	-106
FD	8.63E+04	4.76E+04	-180	1.13E+03	-88
L1	8.56E+04	5.05E+04	179	1.12E-02	-135
L3	8.65E+04	4.75E+04	179	1.09E+03	-89
L4	8.65E+04	4.75E+04	179	1.09E+03	-89
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–318. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.51E+04	1.36E+05
A2	4.02E+04	1.32E+05	4.01E+04	1.32E+05
FD	4.03E+04	1.34E+05	4.05E+04	1.34E+05
L1	3.50E+04	1.36E+05	3.51E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.06E+04	1.34E+05
L4	4.06E+04	1.35E+05	4.06E+04	1.34E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

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

Figure A-160. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

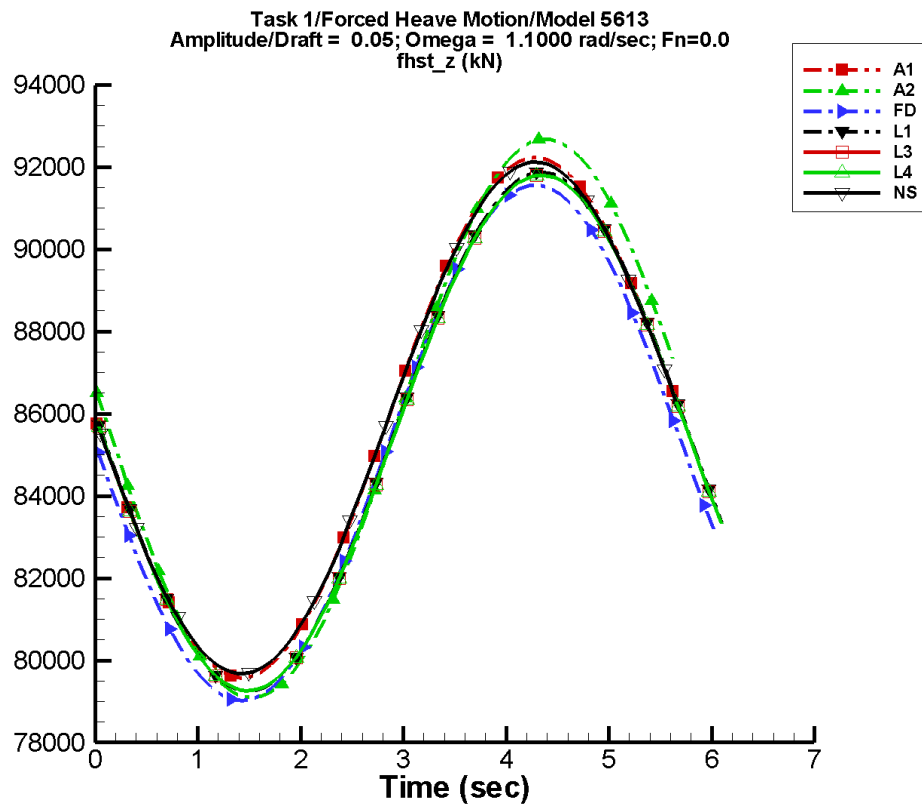
Table A–319. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	-180	1.50E-02	59
A2	8.95E+04	8.92E+04	178	5.18E+03	-96
FD	8.96E+04	8.88E+04	-180	4.78E+03	-88
L1	8.56E+04	1.01E+05	179	1.83E-02	-126
L3	8.96E+04	8.85E+04	179	4.63E+03	-89
L4	8.96E+04	8.85E+04	179	4.63E+03	-89
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	-180	4.50E+03	-90

Table A–320. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.57E+04	1.87E+05
A2	7.38E+03	1.82E+05	7.20E+03	1.82E+05
FD	7.92E+03	1.81E+05	8.09E+03	1.81E+05
L1	-1.55E+04	1.87E+05	-1.53E+04	1.86E+05
L3	8.02E+03	1.81E+05	8.08E+03	1.81E+05
L4	8.02E+03	1.81E+05	8.08E+03	1.81E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-161. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

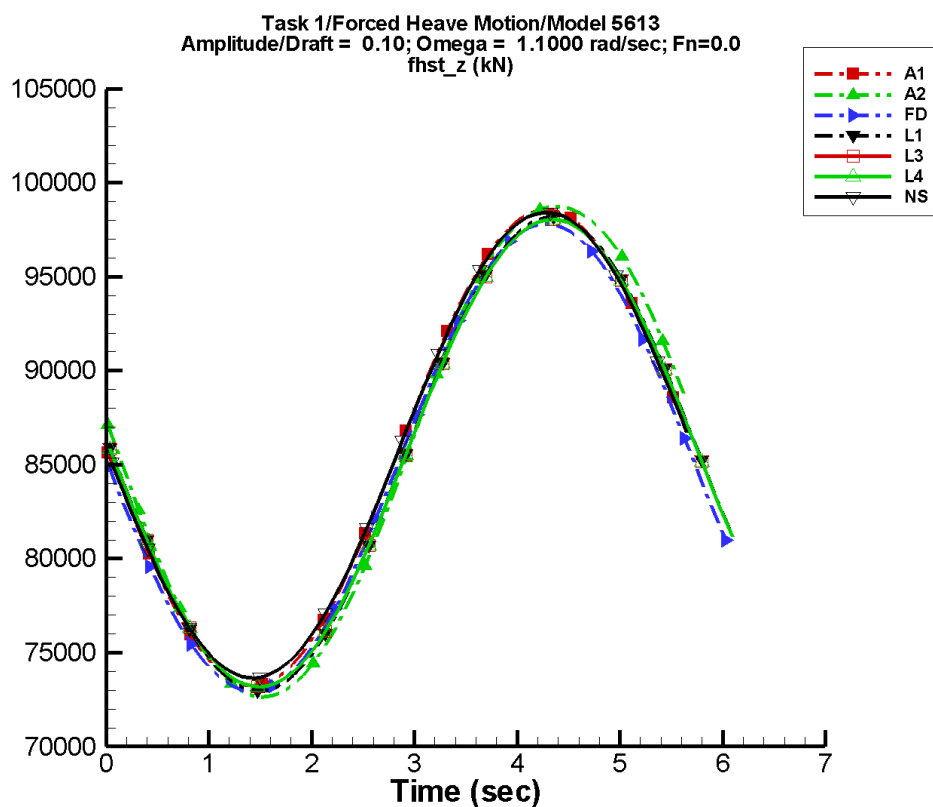
Table A–321. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	180	1.47E-02	174
A2	8.59E+04	6.82E+03	174	3.83	113
FD	8.53E+04	6.28E+03	180	14.5	-90
L1	8.56E+04	6.31E+03	176	4.61E-03	34
L3	8.55E+04	6.27E+03	176	11.4	-98
L4	8.55E+04	6.27E+03	176	11.4	-98
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.35	-73

Table A–322. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.97E+04	9.20E+04
A2	7.91E+04	9.27E+04	7.93E+04	9.25E+04
FD	7.90E+04	9.16E+04	7.92E+04	9.14E+04
L1	7.92E+04	9.19E+04	7.93E+04	9.18E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.17E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.17E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

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

Figure A-162. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

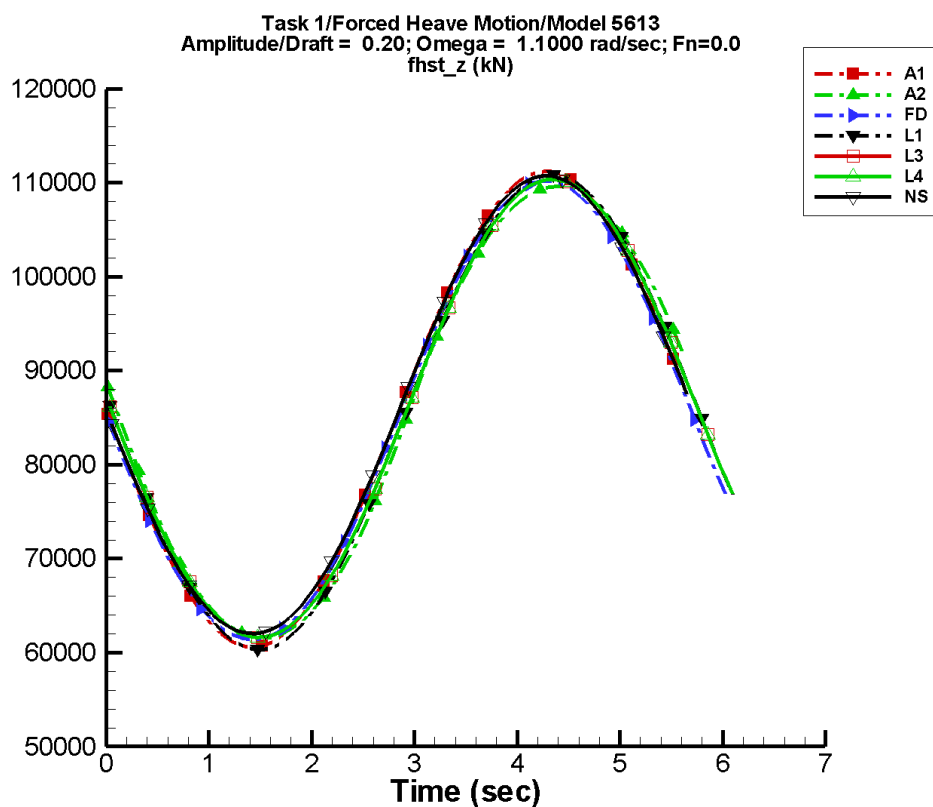
Table A–323. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	180	2.23E-02	175
A2	8.58E+04	1.32E+04	174	81.2	86
FD	8.53E+04	1.25E+04	-180	65.5	-89
L1	8.56E+04	1.26E+04	176	5.06E-03	-4
L3	8.56E+04	1.25E+04	176	60.4	-98
L4	8.56E+04	1.25E+04	176	60.4	-98
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.5	-90

Table A–324. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.35E+04	9.82E+04
A2	7.26E+04	9.87E+04	7.30E+04	9.84E+04
FD	7.29E+04	9.78E+04	7.33E+04	9.74E+04
L1	7.29E+04	9.82E+04	7.31E+04	9.80E+04
L3	7.32E+04	9.80E+04	7.33E+04	9.79E+04
L4	7.32E+04	9.80E+04	7.33E+04	9.79E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-163. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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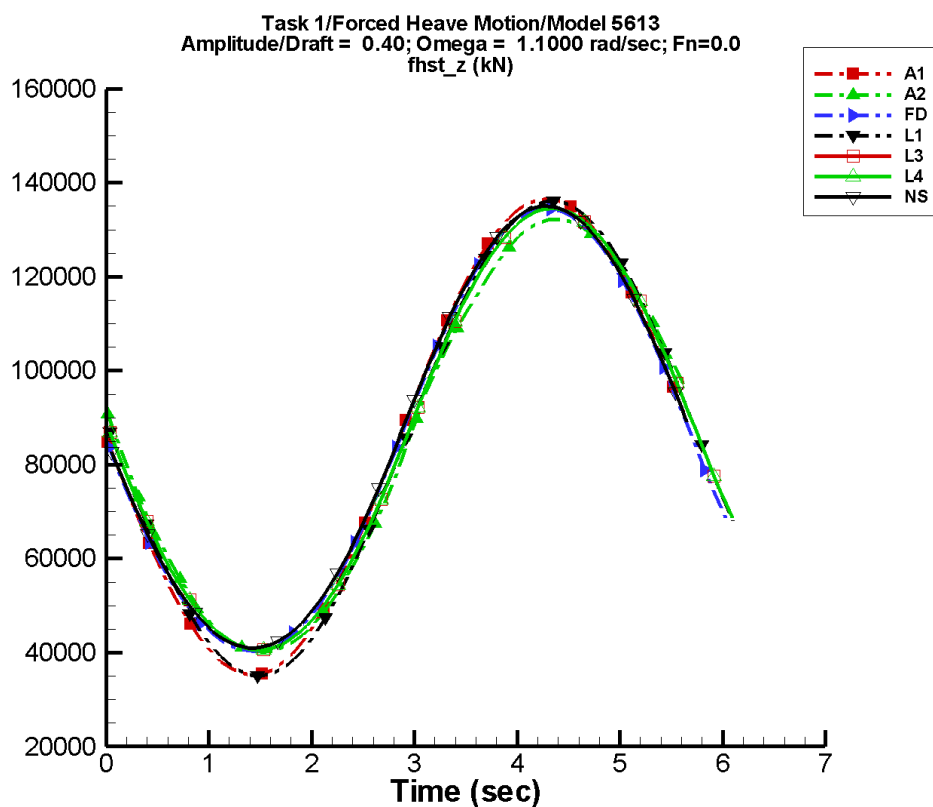
Table A–325. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	180	4.26E-02	169
A2	8.57E+04	2.46E+04	174	108.	114
FD	8.55E+04	2.46E+04	-180	301.	-89
L1	8.56E+04	2.53E+04	176	1.52E-02	104
L3	8.57E+04	2.45E+04	176	294.	-98
L4	8.57E+04	2.45E+04	176	294.	-98
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	242.	-90

Table A–326. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.12E+04	1.10E+05
A2	6.15E+04	1.10E+05	6.22E+04	1.09E+05
FD	6.14E+04	1.10E+05	6.21E+04	1.09E+05
L1	6.03E+04	1.11E+05	6.06E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.19E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.19E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.23E+04	1.10E+05

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

Figure A-164. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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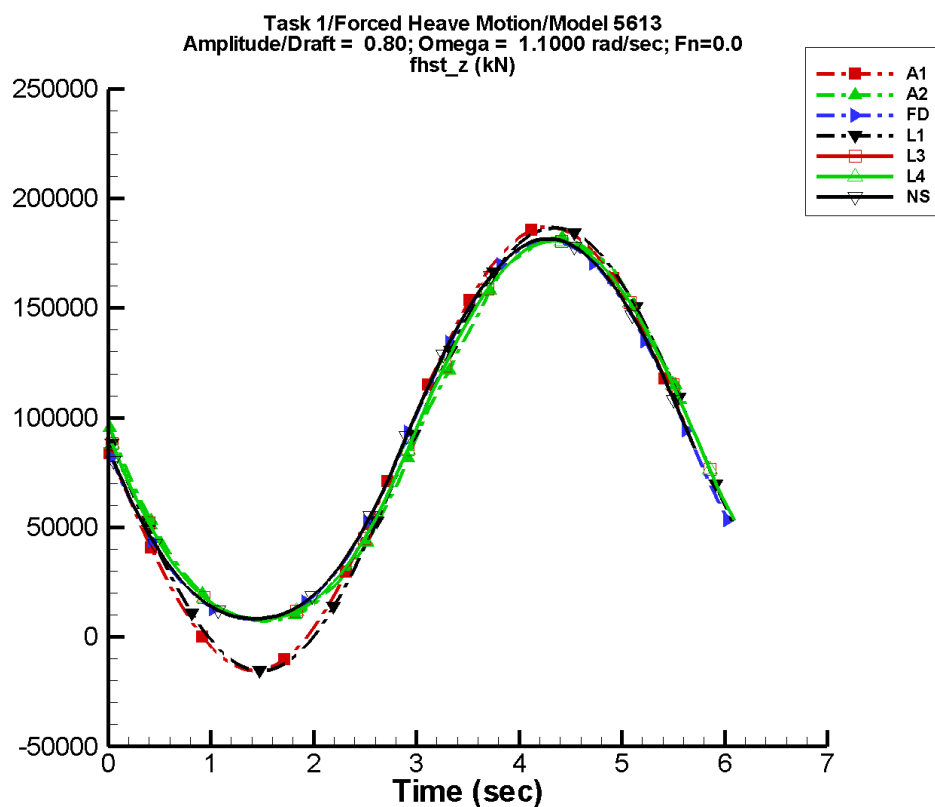
Table A–327. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	180	9.08E-02	170
A2	8.57E+04	4.66E+04	174	301.	-120
FD	8.63E+04	4.76E+04	-180	1.23E+03	-89
L1	8.56E+04	5.05E+04	176	3.01E-02	39
L3	8.65E+04	4.75E+04	176	1.20E+03	-98
L4	8.65E+04	4.75E+04	176	1.20E+03	-98
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–328. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.65E+04	1.35E+05
A2	4.02E+04	1.32E+05	4.14E+04	1.31E+05
FD	4.03E+04	1.34E+05	4.16E+04	1.33E+05
L1	3.51E+04	1.36E+05	3.56E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.10E+04	1.34E+05
L4	4.06E+04	1.35E+05	4.10E+04	1.34E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-165. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

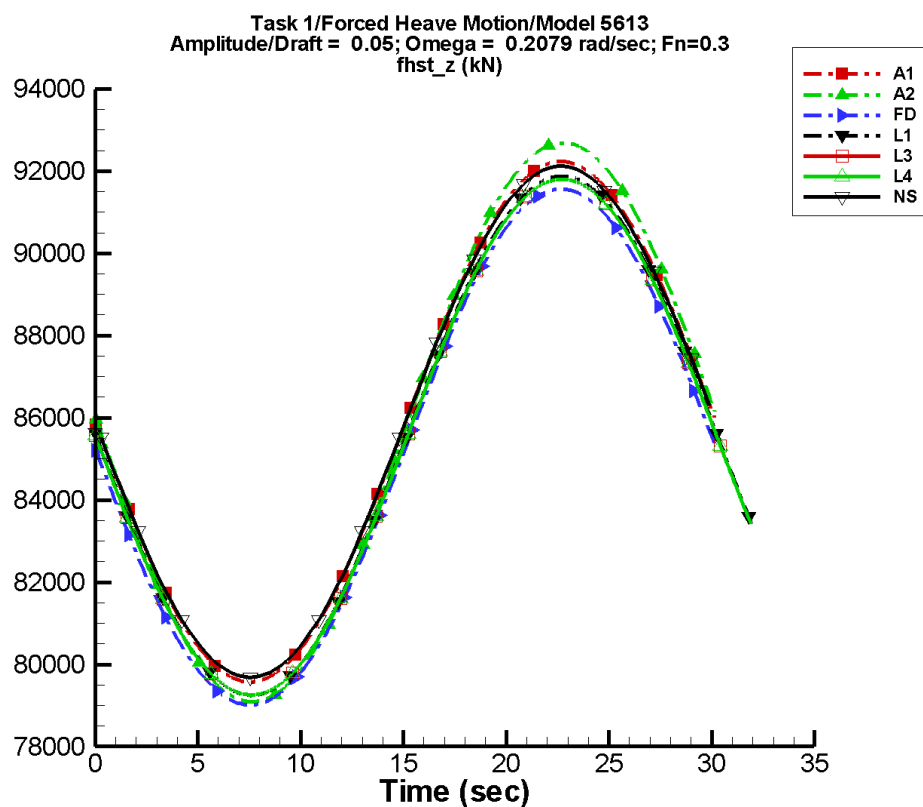
Table A–329. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	180	0.170	173
A2	8.95E+04	8.92E+04	174	5.02E+03	-105
FD	8.96E+04	8.90E+04	-180	5.19E+03	-89
L1	8.56E+04	1.01E+05	176	3.30E-02	-40
L3	8.96E+04	8.87E+04	176	5.09E+03	-98
L4	8.96E+04	8.87E+04	176	5.09E+03	-98
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	-180	4.50E+03	-90

Table A–330. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.29E+04	1.84E+05
A2	7.38E+03	1.82E+05	9.04E+03	1.79E+05
FD	7.92E+03	1.81E+05	9.50E+03	1.78E+05
L1	-1.54E+04	1.87E+05	-1.43E+04	1.85E+05
L3	8.04E+03	1.81E+05	8.60E+03	1.80E+05
L4	8.04E+03	1.81E+05	8.60E+03	1.80E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-166. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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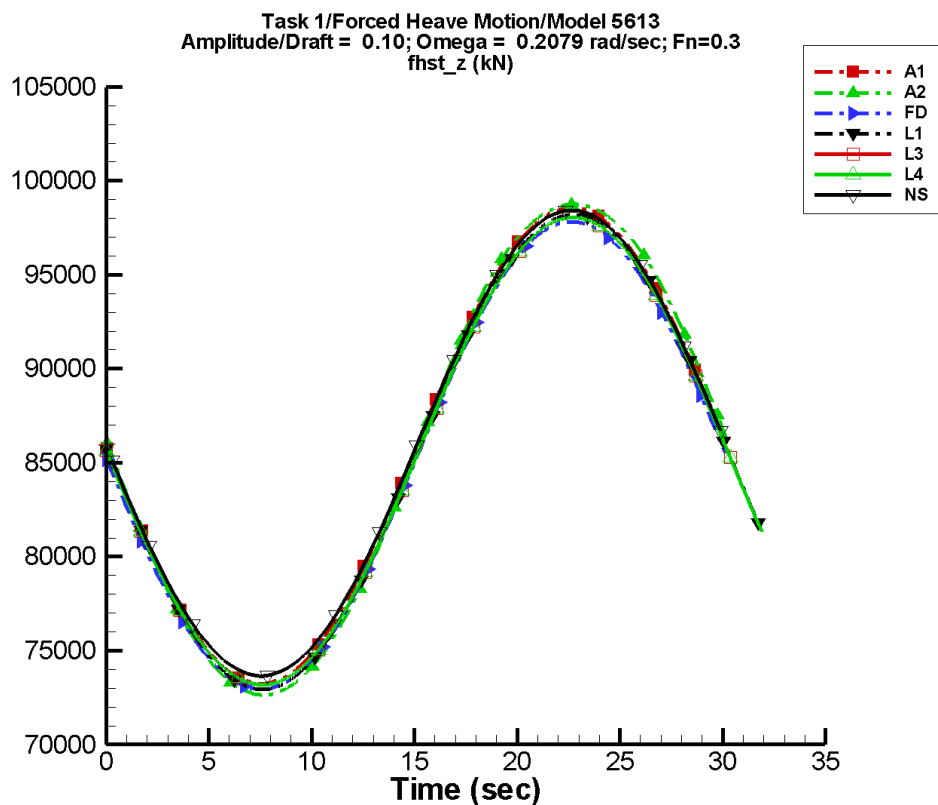
Table A–331. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	180	1.03E-02	141
A2	8.59E+04	6.82E+03	179	2.89	133
FD	8.53E+04	6.28E+03	-180	13.8	-87
L1	8.56E+04	6.32E+03	179	9.49E-03	-154
L3	8.55E+04	6.28E+03	179	11.0	-93
L4	8.55E+04	6.28E+03	179	11.0	-93
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.07	-90

Table A–332. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.96E+04	9.22E+04
A2	7.91E+04	9.27E+04	7.91E+04	9.27E+04
FD	7.90E+04	9.16E+04	7.90E+04	9.16E+04
L1	7.92E+04	9.19E+04	7.92E+04	9.19E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.18E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.18E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-167. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

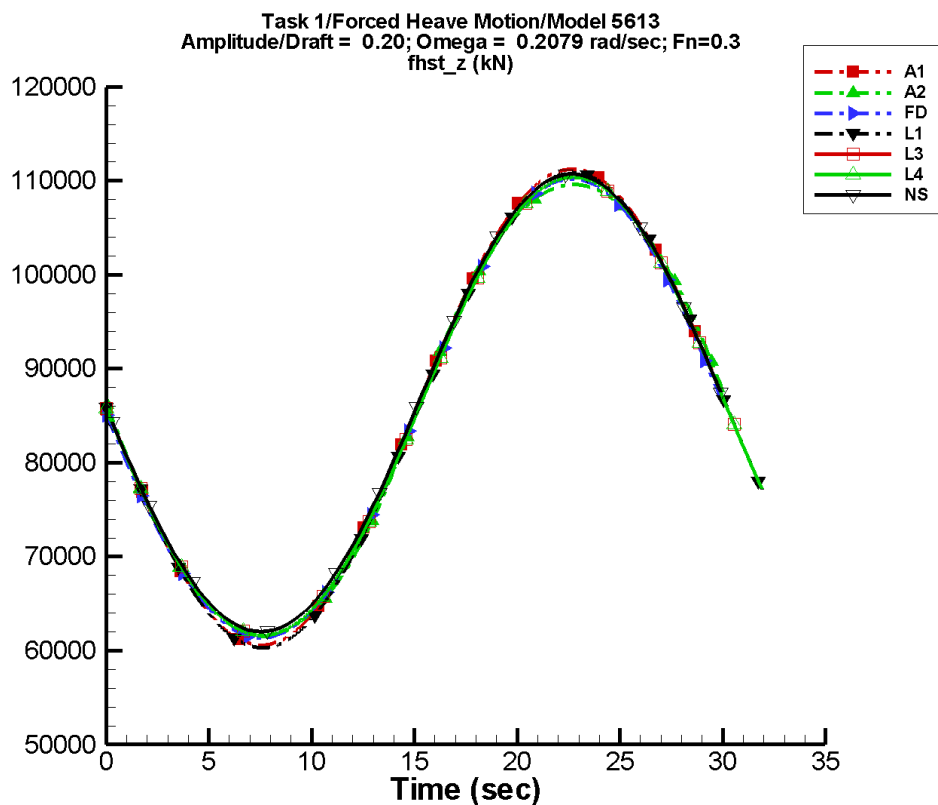
Table A–333. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	180	1.69E-02	124
A2	8.58E+04	1.32E+04	179	75.4	97
FD	8.53E+04	1.25E+04	-180	62.0	-87
L1	8.56E+04	1.26E+04	179	1.27E-02	157
L3	8.56E+04	1.25E+04	179	59.0	-93
L4	8.56E+04	1.25E+04	179	59.0	-93
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.0	-90

Table A–334. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.32E+04	9.86E+04
A2	7.26E+04	9.88E+04	7.27E+04	9.87E+04
FD	7.29E+04	9.78E+04	7.29E+04	9.78E+04
L1	7.29E+04	9.82E+04	7.29E+04	9.82E+04
L3	7.32E+04	9.80E+04	7.32E+04	9.80E+04
L4	7.32E+04	9.80E+04	7.32E+04	9.80E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-168. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

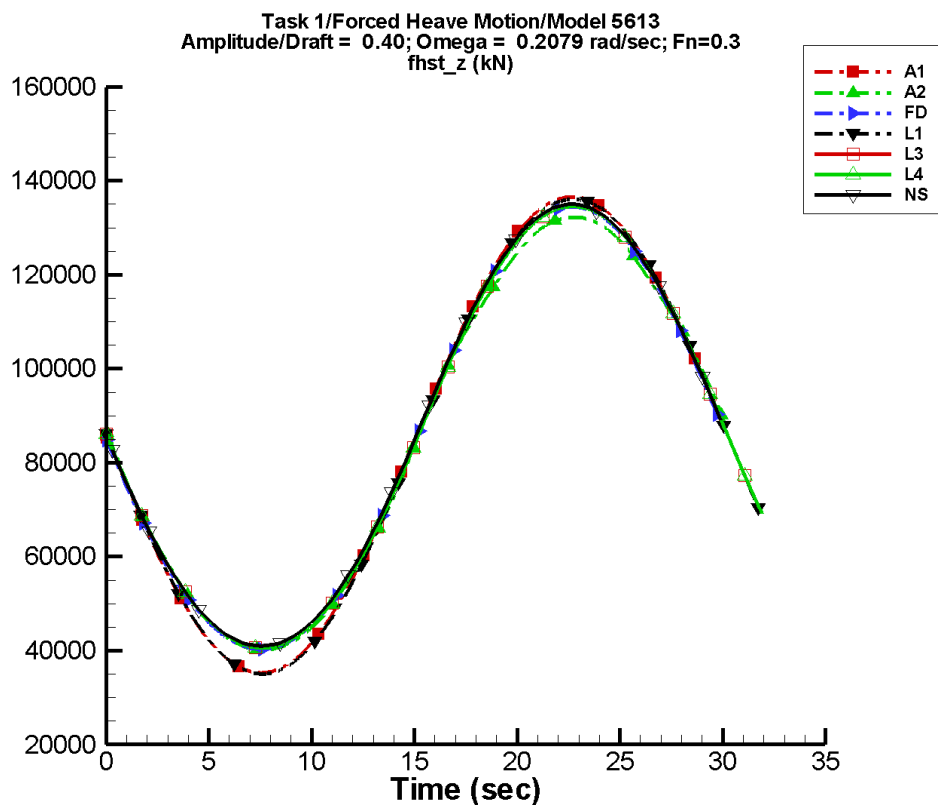
Table A–335. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	180	3.26E-02	159
A2	8.57E+04	2.46E+04	179	83.9	132
FD	8.55E+04	2.46E+04	-180	286.	-87
L1	8.56E+04	2.53E+04	179	1.96E-02	-170
L3	8.57E+04	2.45E+04	179	287.	-92
L4	8.57E+04	2.45E+04	179	287.	-92
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	243.	-90

Table A–336. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.06E+04	1.11E+05
A2	6.15E+04	1.10E+05	6.16E+04	1.10E+05
FD	6.14E+04	1.10E+05	6.14E+04	1.10E+05
L1	6.03E+04	1.11E+05	6.03E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.16E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.16E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.22E+04	1.10E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-169. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

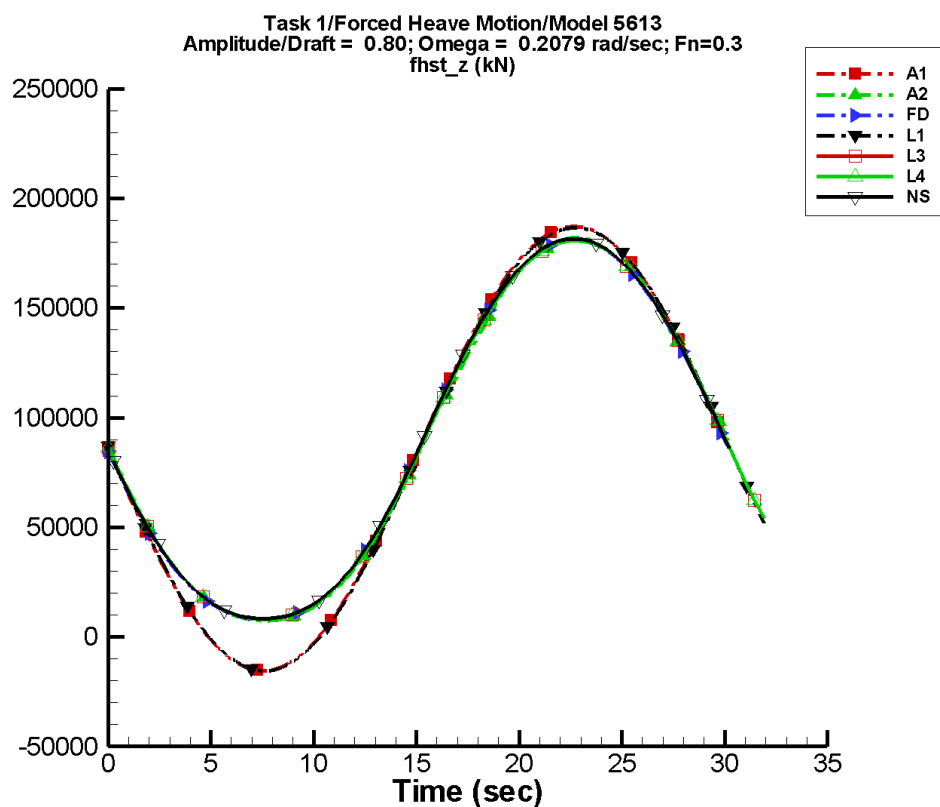
Table A–337. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	180	7.53E-02	162
A2	8.57E+04	4.66E+04	179	350.	-104
FD	8.63E+04	4.76E+04	-180	1.17E+03	-87
L1	8.56E+04	5.05E+04	179	2.88E-02	147
L3	8.65E+04	4.75E+04	179	1.17E+03	-92
L4	8.65E+04	4.75E+04	179	1.17E+03	-92
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–338. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.52E+04	1.36E+05
A2	4.02E+04	1.32E+05	4.02E+04	1.32E+05
FD	4.03E+04	1.34E+05	4.04E+04	1.34E+05
L1	3.50E+04	1.36E+05	3.51E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.06E+04	1.35E+05
L4	4.06E+04	1.35E+05	4.06E+04	1.35E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-170. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

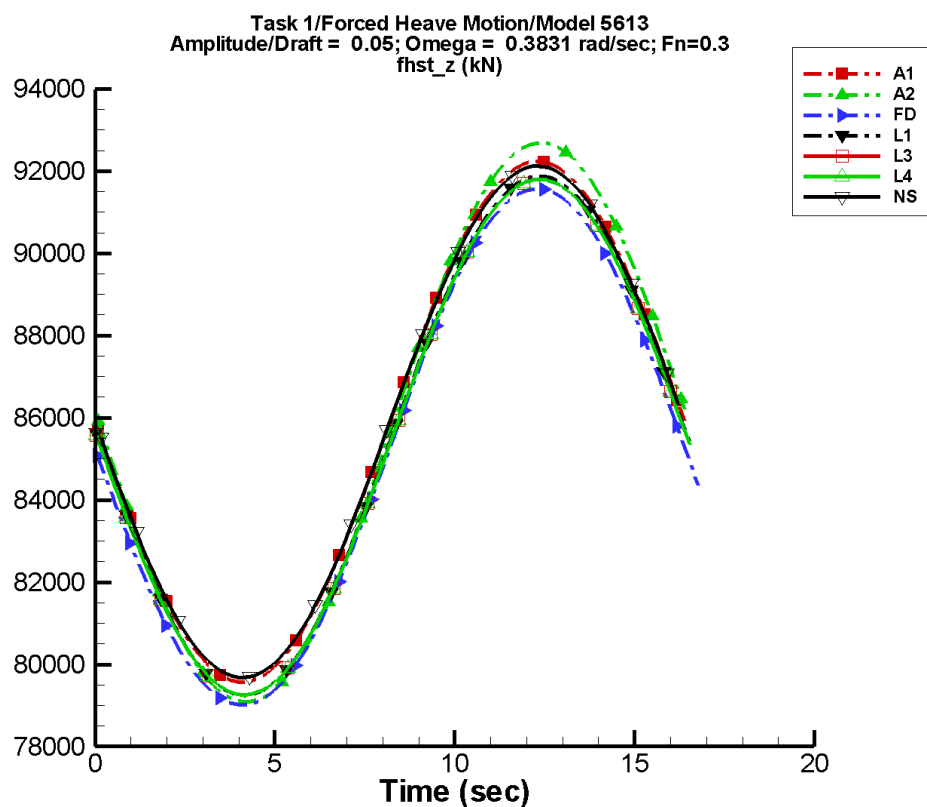
Table A–339. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	180	0.113	165
A2	8.95E+04	8.92E+04	179	5.16E+03	-94
FD	8.96E+04	8.89E+04	-180	4.94E+03	-87
L1	8.56E+04	1.01E+05	179	1.85E-02	129
L3	8.97E+04	8.87E+04	179	4.98E+03	-92
L4	8.97E+04	8.87E+04	179	4.98E+03	-92
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	180	4.50E+03	-90

Table A–340. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.54E+04	1.87E+05
A2	7.38E+03	1.82E+05	7.37E+03	1.82E+05
FD	7.92E+03	1.81E+05	7.97E+03	1.81E+05
L1	-1.55E+04	1.87E+05	-1.54E+04	1.87E+05
L3	8.02E+03	1.81E+05	8.04E+03	1.81E+05
L4	8.02E+03	1.81E+05	8.04E+03	1.81E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

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

Figure A-171. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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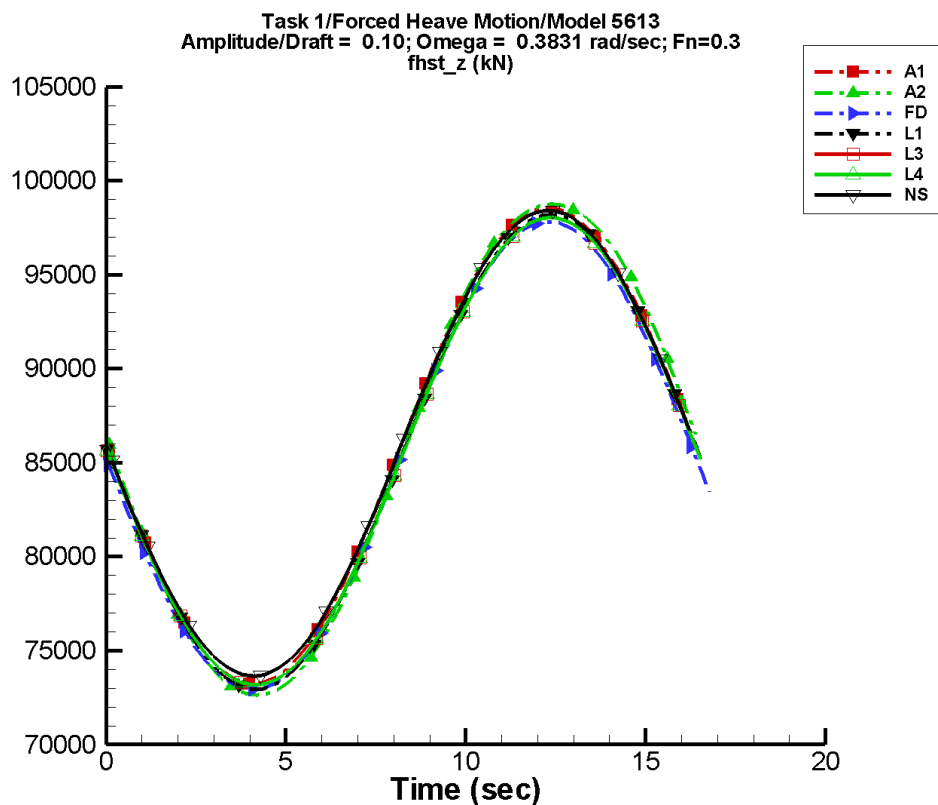
Table A–341. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	-180	5.29E-03	143
A2	8.59E+04	6.82E+03	178	2.80	134
FD	8.53E+04	6.28E+03	-180	13.3	-88
L1	8.56E+04	6.31E+03	179	9.14E-03	-166
L3	8.55E+04	6.28E+03	179	10.0	-87
L4	8.55E+04	6.28E+03	179	10.0	-87
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.35	-73

Table A–342. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.96E+04	9.22E+04
A2	7.91E+04	9.27E+04	7.91E+04	9.27E+04
FD	7.90E+04	9.16E+04	7.90E+04	9.15E+04
L1	7.92E+04	9.19E+04	7.93E+04	9.19E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.18E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.18E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-172. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

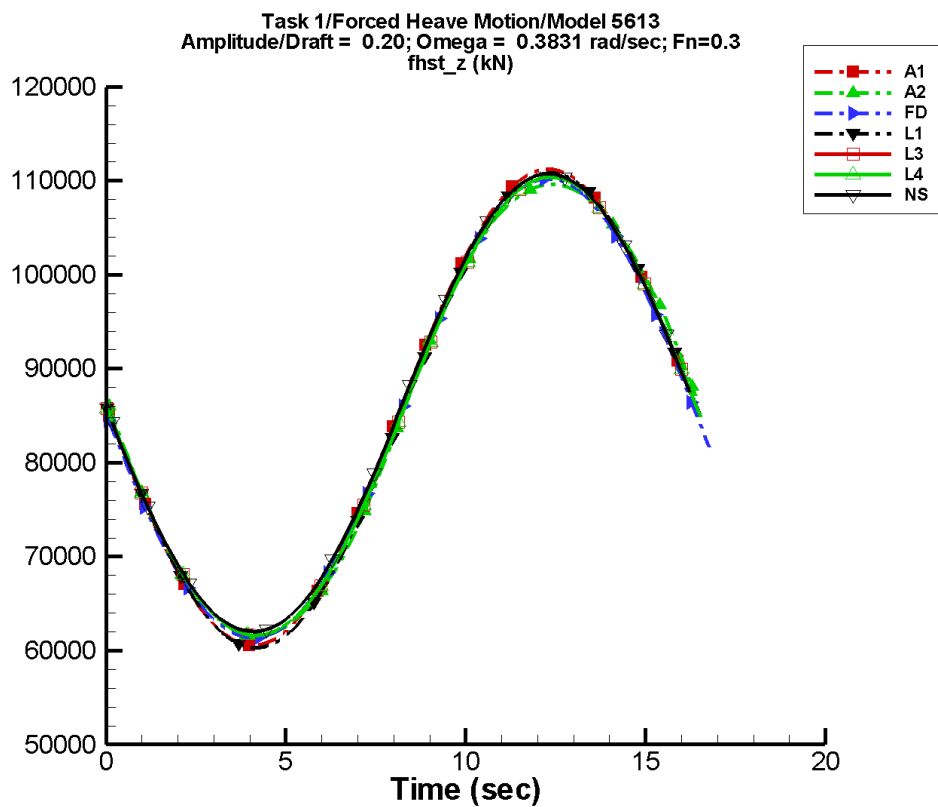
Table A–343. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	-180	5.72E-03	161
A2	8.58E+04	1.32E+04	178	74.4	95
FD	8.53E+04	1.25E+04	-180	59.9	-88
L1	8.56E+04	1.26E+04	179	1.06E-02	-164
L3	8.56E+04	1.25E+04	179	54.0	-88
L4	8.56E+04	1.25E+04	179	54.0	-88
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.5	-90

Table A–344. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.32E+04	9.85E+04
A2	7.26E+04	9.88E+04	7.26E+04	9.87E+04
FD	7.29E+04	9.78E+04	7.30E+04	9.78E+04
L1	7.29E+04	9.82E+04	7.29E+04	9.82E+04
L3	7.32E+04	9.80E+04	7.32E+04	9.80E+04
L4	7.32E+04	9.80E+04	7.32E+04	9.80E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-173. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

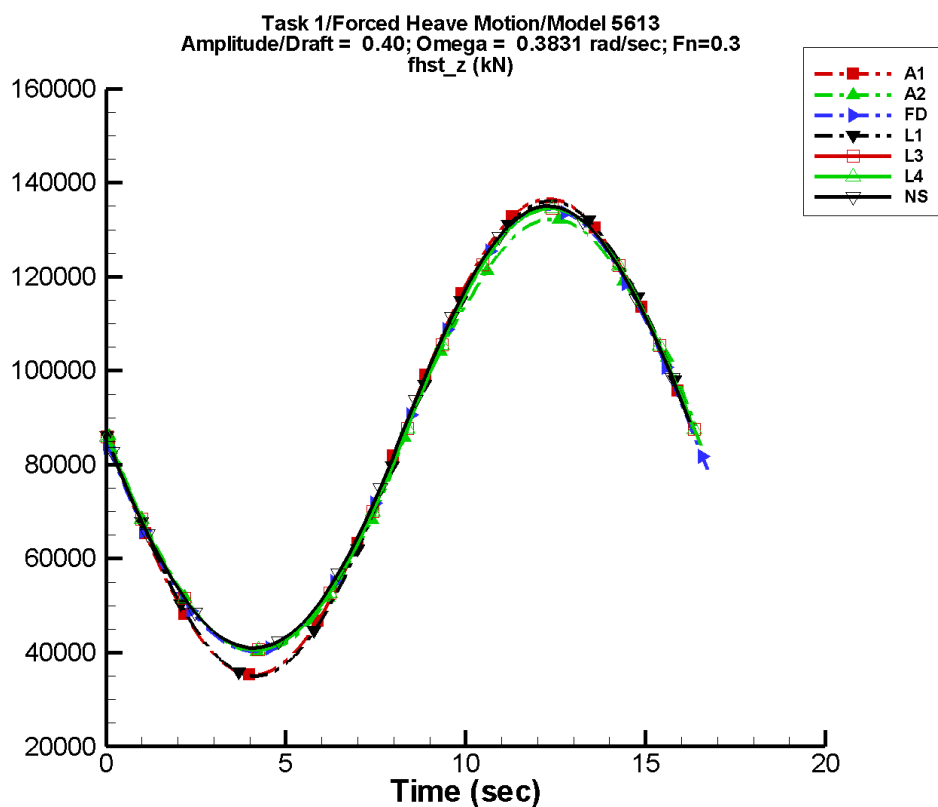
Table A–345. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	-180	1.05E-02	-136
A2	8.57E+04	2.46E+04	178	79.4	134
FD	8.55E+04	2.46E+04	-180	277.	-88
L1	8.56E+04	2.53E+04	179	1.12E-02	-70
L3	8.57E+04	2.45E+04	179	266.	-88
L4	8.57E+04	2.45E+04	179	266.	-88
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	242.	-90

Table A–346. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.05E+04	1.11E+05
A2	6.15E+04	1.10E+05	6.15E+04	1.10E+05
FD	6.14E+04	1.10E+05	6.14E+04	1.10E+05
L1	6.03E+04	1.11E+05	6.03E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.16E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.16E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.23E+04	1.10E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-174. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $Fn = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

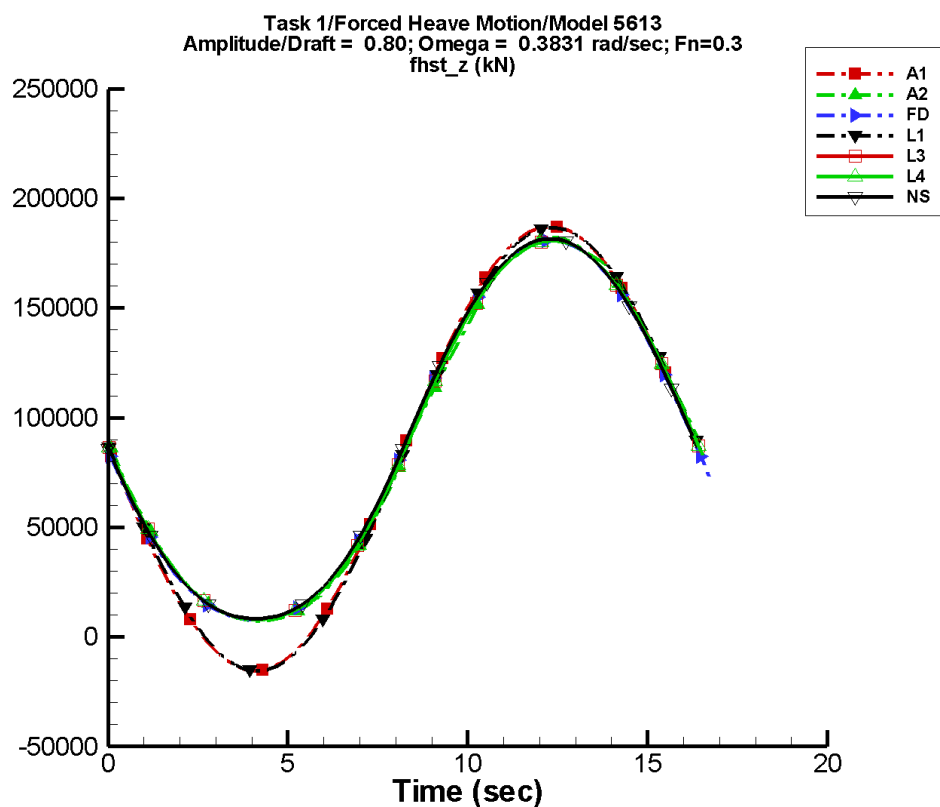
Table A–347. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	-180	8.94E-03	145
A2	8.57E+04	4.66E+04	178	356.	-106
FD	8.63E+04	4.76E+04	-180	1.13E+03	-88
L1	8.56E+04	5.05E+04	179	1.12E-02	-135
L3	8.65E+04	4.75E+04	179	1.09E+03	-89
L4	8.65E+04	4.75E+04	179	1.09E+03	-89
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–348. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.51E+04	1.36E+05
A2	4.02E+04	1.32E+05	4.01E+04	1.32E+05
FD	4.03E+04	1.34E+05	4.05E+04	1.34E+05
L1	3.50E+04	1.36E+05	3.51E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.06E+04	1.34E+05
L4	4.06E+04	1.35E+05	4.06E+04	1.34E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-175. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

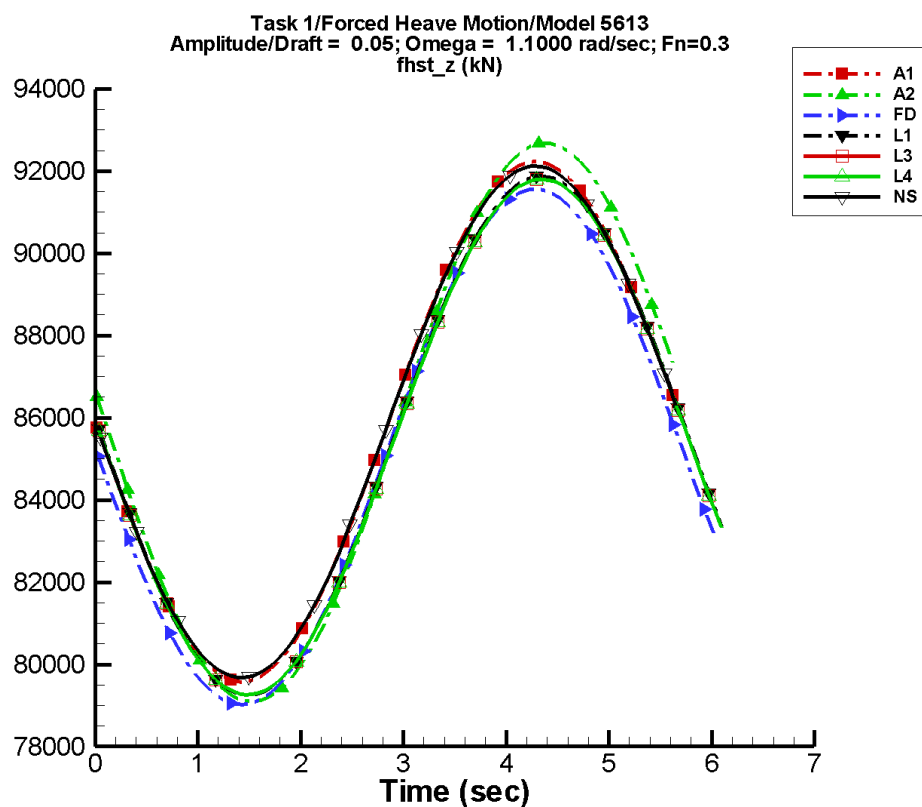
Table A–349. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	-180	1.50E-02	59
A2	8.95E+04	8.92E+04	178	5.18E+03	-96
FD	8.96E+04	8.88E+04	-180	4.78E+03	-88
L1	8.56E+04	1.01E+05	179	1.83E-02	-126
L3	8.96E+04	8.85E+04	179	4.63E+03	-89
L4	8.96E+04	8.85E+04	179	4.63E+03	-89
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	-180	4.50E+03	-90

Table A–350. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.57E+04	1.87E+05
A2	7.38E+03	1.82E+05	7.20E+03	1.82E+05
FD	7.92E+03	1.81E+05	8.09E+03	1.81E+05
L1	-1.55E+04	1.87E+05	-1.53E+04	1.86E+05
L3	8.02E+03	1.81E+05	8.08E+03	1.81E+05
L4	8.02E+03	1.81E+05	8.08E+03	1.81E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-176. Time history of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

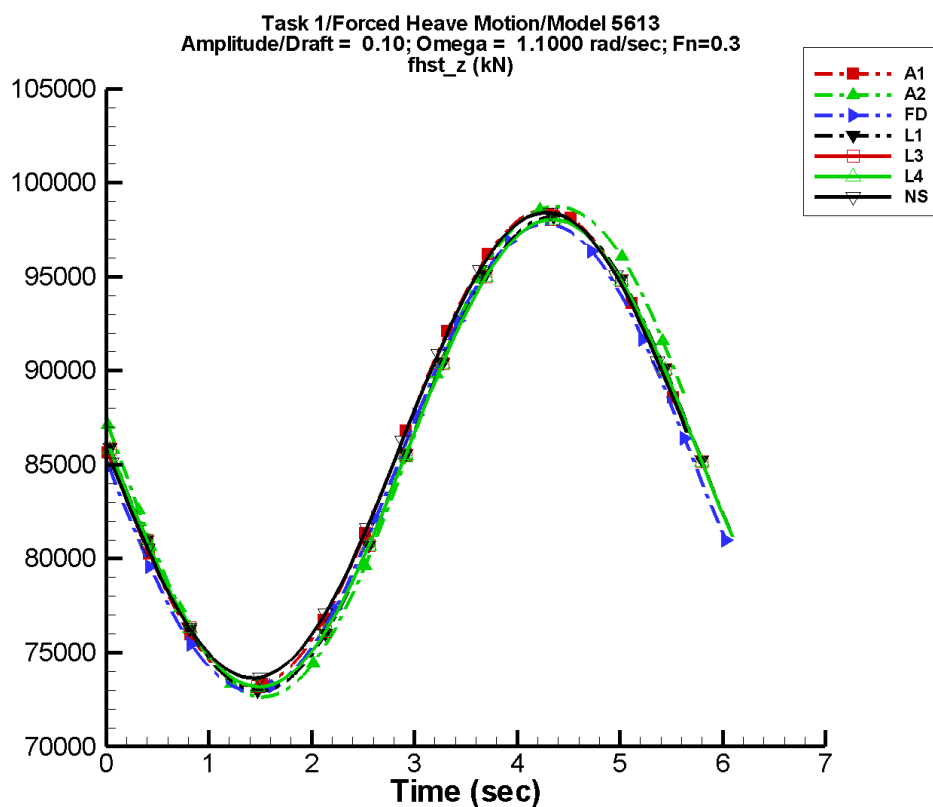
Table A–351. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	6.33E+03	180	1.47E-02	174
A2	8.59E+04	6.82E+03	174	3.83	113
FD	8.53E+04	6.28E+03	180	14.5	-90
L1	8.56E+04	6.31E+03	176	4.61E-03	34
L3	8.55E+04	6.27E+03	176	11.3	-98
L4	8.55E+04	6.27E+03	176	11.3	-98
NF	—	—	—	—	—
NS	8.59E+04	6.23E+03	180	1.35	-73

Table A–352. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.96E+04	9.22E+04	7.97E+04	9.20E+04
A2	7.91E+04	9.27E+04	7.93E+04	9.25E+04
FD	7.90E+04	9.16E+04	7.92E+04	9.14E+04
L1	7.92E+04	9.19E+04	7.93E+04	9.18E+04
L3	7.93E+04	9.18E+04	7.93E+04	9.17E+04
L4	7.93E+04	9.18E+04	7.93E+04	9.17E+04
NF	—	—	—	—
NS	7.97E+04	9.21E+04	7.97E+04	9.21E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-177. Time history of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

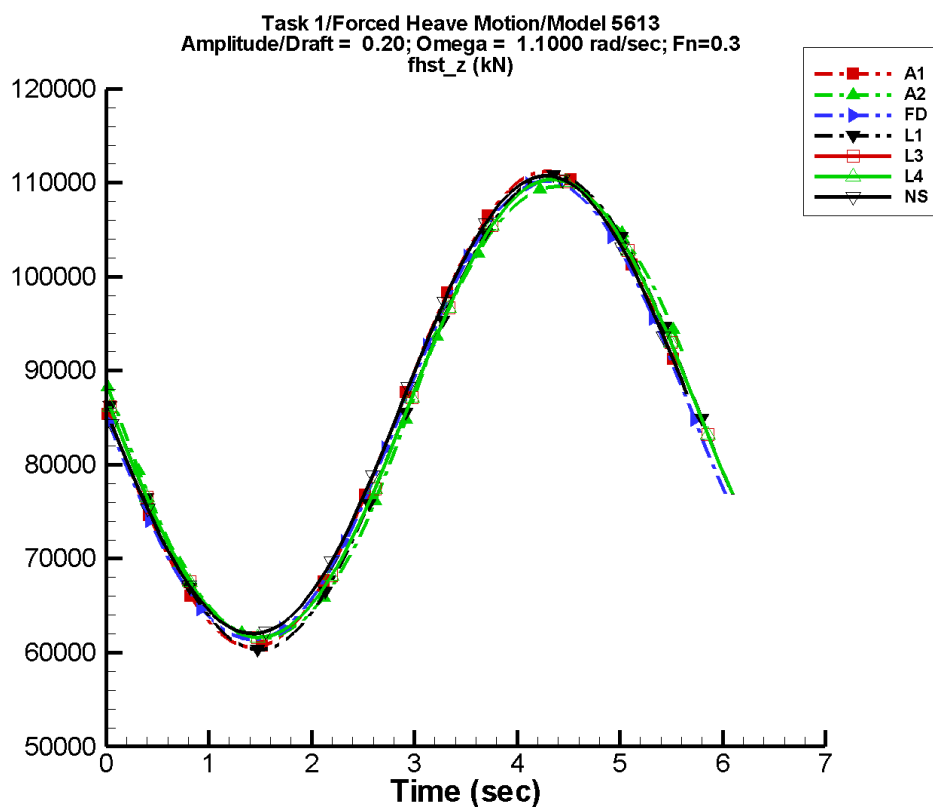
Table A–353. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.27E+04	180	2.23E-02	175
A2	8.58E+04	1.32E+04	174	81.2	86
FD	8.53E+04	1.25E+04	-180	65.5	-89
L1	8.56E+04	1.26E+04	176	5.06E-03	-4
L3	8.56E+04	1.25E+04	176	60.4	-98
L4	8.56E+04	1.25E+04	176	60.4	-98
NF	—	—	—	—	—
NS	8.60E+04	1.24E+04	180	79.5	-90

Table A–354. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.32E+04	9.86E+04	7.35E+04	9.82E+04
A2	7.26E+04	9.87E+04	7.30E+04	9.84E+04
FD	7.29E+04	9.78E+04	7.33E+04	9.74E+04
L1	7.29E+04	9.82E+04	7.31E+04	9.80E+04
L3	7.32E+04	9.80E+04	7.33E+04	9.79E+04
L4	7.32E+04	9.80E+04	7.33E+04	9.79E+04
NF	—	—	—	—
NS	7.36E+04	9.84E+04	7.38E+04	9.83E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-178. Time history of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

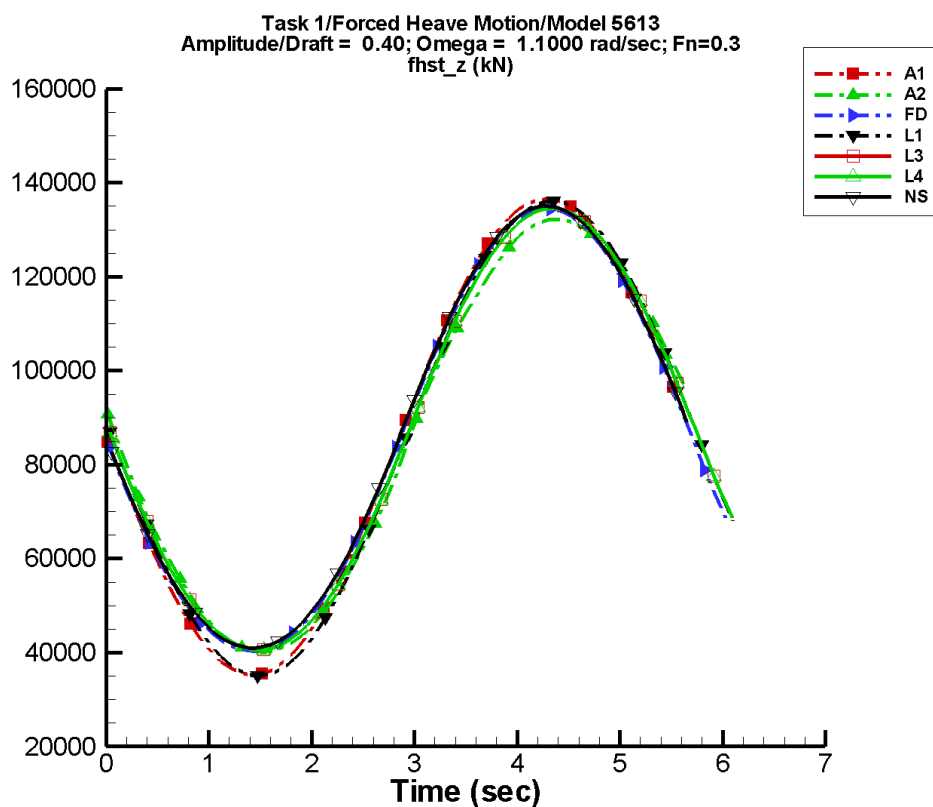
Table A–355. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	2.53E+04	180	4.26E-02	169
A2	8.57E+04	2.46E+04	174	108.	114
FD	8.55E+04	2.46E+04	-180	301.	-89
L1	8.56E+04	2.53E+04	176	1.52E-02	104
L3	8.57E+04	2.45E+04	176	294.	-98
L4	8.57E+04	2.45E+04	176	294.	-98
NF	—	—	—	—	—
NS	8.61E+04	2.45E+04	-180	242.	-90

Table A–356. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.06E+04	1.11E+05	6.12E+04	1.10E+05
A2	6.15E+04	1.10E+05	6.22E+04	1.09E+05
FD	6.14E+04	1.10E+05	6.21E+04	1.09E+05
L1	6.03E+04	1.11E+05	6.06E+04	1.11E+05
L3	6.16E+04	1.10E+05	6.19E+04	1.10E+05
L4	6.16E+04	1.10E+05	6.19E+04	1.10E+05
NF	—	—	—	—
NS	6.20E+04	1.11E+05	6.23E+04	1.10E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-179. Time history of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

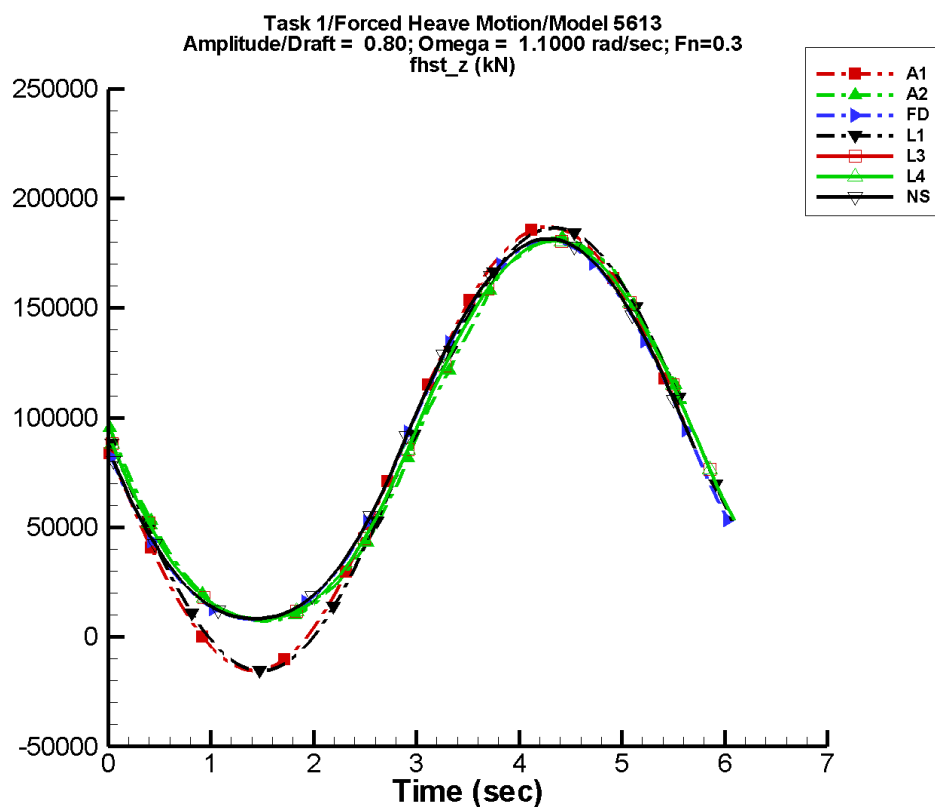
Table A–357. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	5.07E+04	180	9.08E-02	170
A2	8.57E+04	4.66E+04	174	301.	-120
FD	8.63E+04	4.76E+04	-180	1.23E+03	-89
L1	8.56E+04	5.05E+04	176	3.01E-02	39
L3	8.65E+04	4.75E+04	176	1.20E+03	-98
L4	8.65E+04	4.75E+04	176	1.20E+03	-98
NF	—	—	—	—	—
NS	8.69E+04	4.75E+04	-180	1.06E+03	-90

Table A–358. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.53E+04	1.37E+05	3.65E+04	1.35E+05
A2	4.02E+04	1.32E+05	4.14E+04	1.31E+05
FD	4.03E+04	1.34E+05	4.16E+04	1.33E+05
L1	3.51E+04	1.36E+05	3.56E+04	1.36E+05
L3	4.06E+04	1.35E+05	4.10E+04	1.34E+05
L4	4.06E+04	1.35E+05	4.10E+04	1.34E+05
NF	—	—	—	—
NS	4.10E+04	1.35E+05	4.14E+04	1.35E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-180. Time history of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

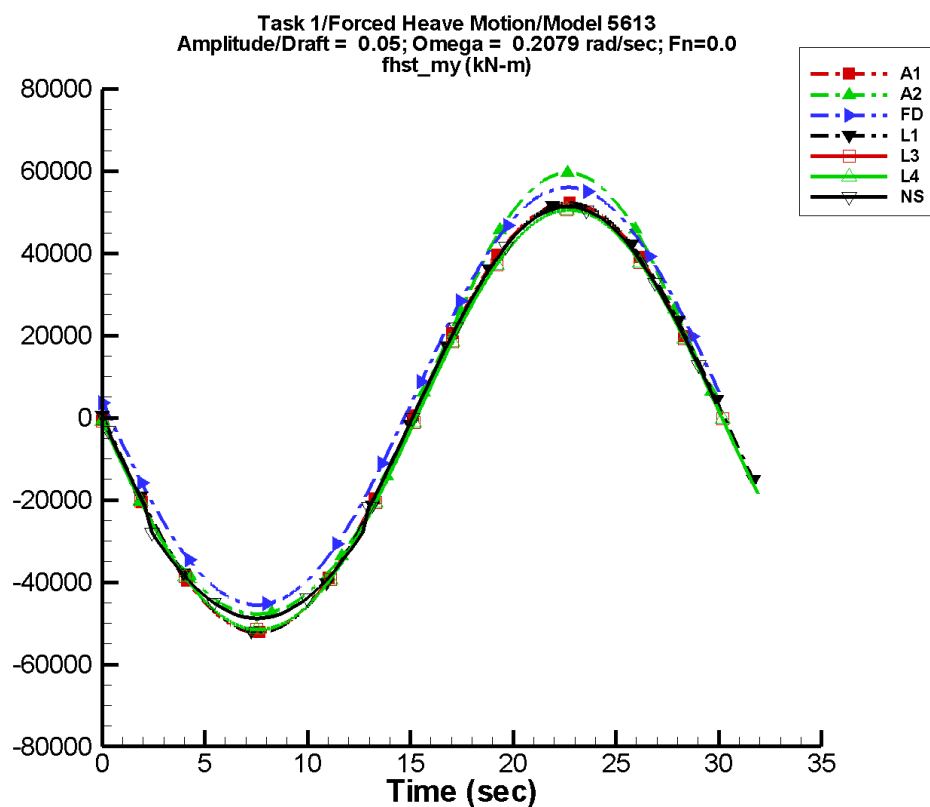
Table A–359. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.59E+04	1.01E+05	180	0.170	173
A2	8.95E+04	8.92E+04	174	5.02E+03	-105
FD	8.96E+04	8.90E+04	-180	5.19E+03	-89
L1	8.56E+04	1.01E+05	176	3.30E-02	-40
L3	8.96E+04	8.87E+04	176	5.09E+03	-98
L4	8.96E+04	8.87E+04	176	5.09E+03	-98
NF	—	—	—	—	—
NS	9.03E+04	8.90E+04	-180	4.50E+03	-90

Table A–360. Minimum and maximum of F_z^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E+04	1.87E+05	-1.29E+04	1.84E+05
A2	7.38E+03	1.82E+05	9.04E+03	1.79E+05
FD	7.92E+03	1.81E+05	9.50E+03	1.78E+05
L1	-1.54E+04	1.87E+05	-1.43E+04	1.85E+05
L3	8.04E+03	1.81E+05	8.60E+03	1.80E+05
L4	8.04E+03	1.81E+05	8.60E+03	1.80E+05
NF	—	—	—	—
NS	8.24E+03	1.82E+05	8.63E+03	1.81E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-181. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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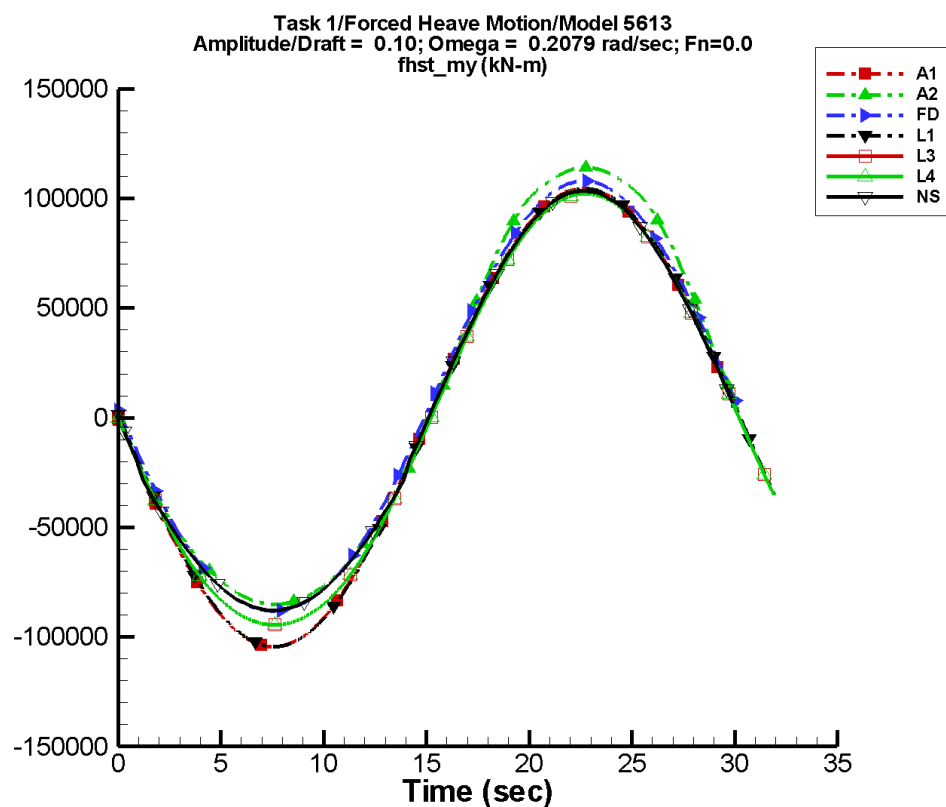
Table A–361. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	3.50E-02	5.22E+04	180	5.30E-02	161
A2	2.75E+03	5.40E+04	-180	3.21E+03	-91
FD	4.69E+03	5.10E+04	-180	549.	-88
L1	3.33E-02	5.22E+04	179	4.06E-03	7
L3	-962.	5.12E+04	179	458.	-92
L4	-962.	5.12E+04	179	458.	-92
NF	—	—	—	—	—
NS	158.	5.09E+04	180	733.	-90

Table A–362. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04
A2	-4.78E+04	5.96E+04	-4.78E+04	5.95E+04
FD	-4.55E+04	5.60E+04	-4.55E+04	5.60E+04
L1	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04
L3	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04
L4	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.09E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-182. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

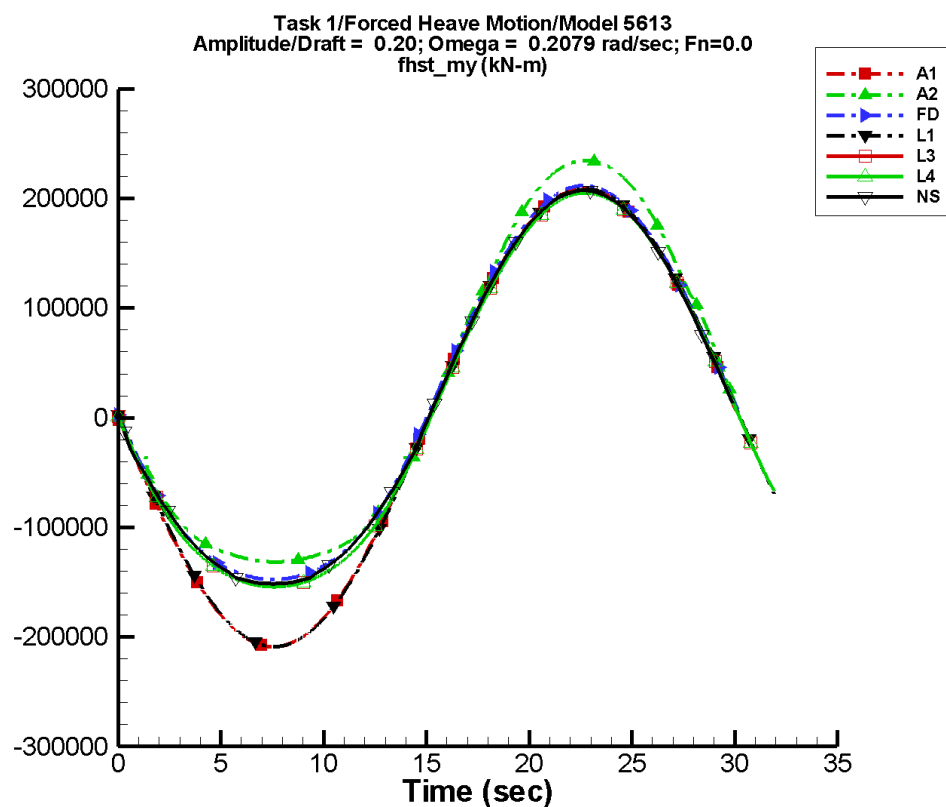
Table A–363. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	7.23E-02	1.04E+05	180	0.107	160
A2	8.68E+03	1.02E+05	179	7.80E+03	-93
FD	6.79E+03	9.91E+04	-180	3.05E+03	-88
L1	5.86E-02	1.04E+05	179	2.55E-02	63
L3	931.	9.95E+04	179	2.93E+03	-92
L4	931.	9.95E+04	179	2.93E+03	-92
NF	—	—	—	—	—
NS	3.57E+03	9.69E+04	180	4.36E+03	-90

Table A–364. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
A2	-8.51E+04	1.14E+05	-8.51E+04	1.14E+05
FD	-8.81E+04	1.08E+05	-8.80E+04	1.08E+05
L1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L3	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05
L4	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-183. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

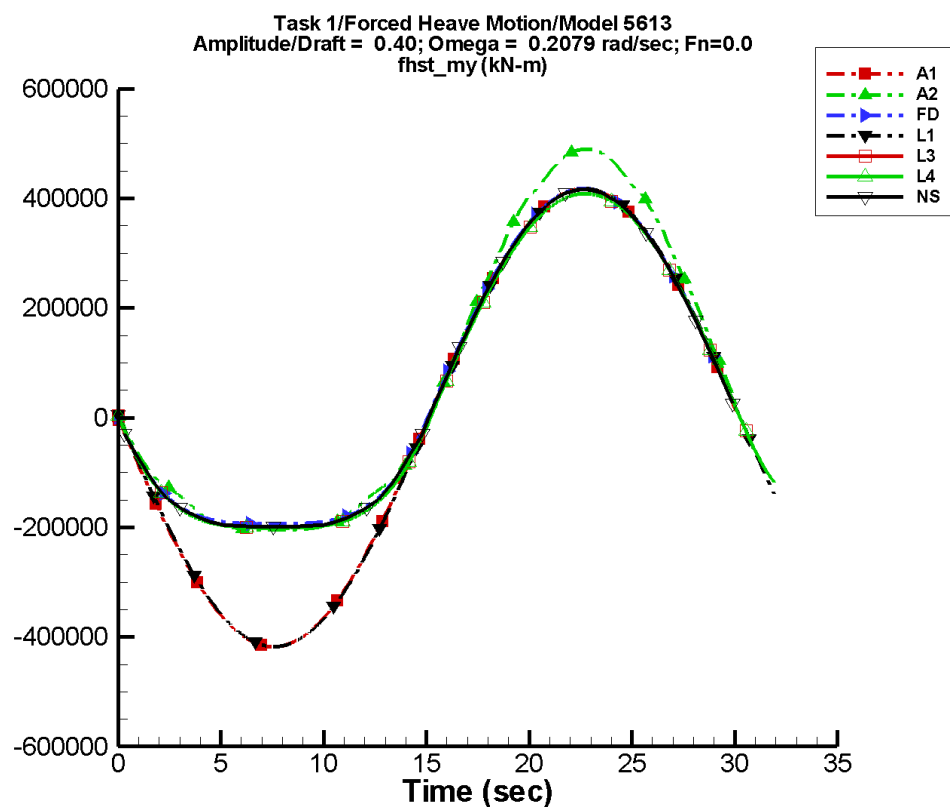
Table A–365. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.146	2.09E+05	180	0.219	164
A2	2.72E+04	1.89E+05	179	2.61E+04	-93
FD	1.74E+04	1.84E+05	-180	1.50E+04	-88
L1	0.152	2.09E+05	179	3.42E-02	-29
L3	1.11E+04	1.85E+05	179	1.51E+04	-92
L4	1.11E+04	1.85E+05	179	1.51E+04	-92
NF	—	—	—	—	—
NS	1.40E+04	1.83E+05	180	1.40E+04	-90

Table A–366. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05
A2	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05
FD	-1.48E+05	2.12E+05	-1.47E+05	2.12E+05
L1	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05
L3	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
L4	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-184. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

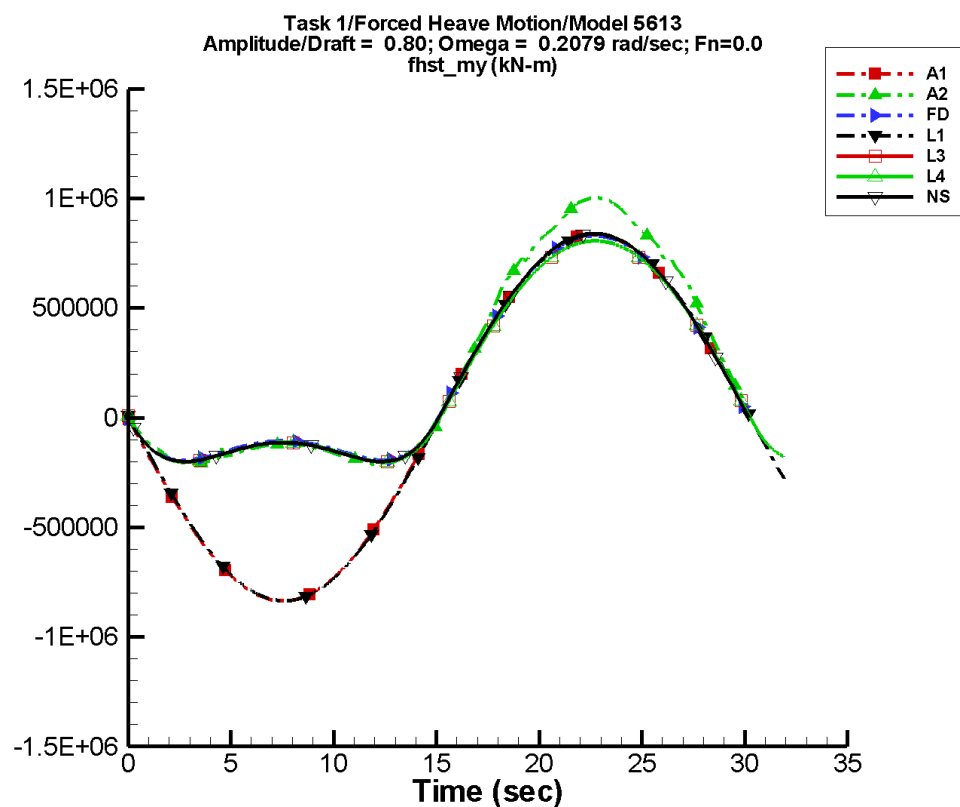
Table A–367. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.302	4.18E+05	180	0.439	163
A2	7.68E+04	3.53E+05	179	6.85E+04	-92
FD	5.80E+04	3.21E+05	-180	5.73E+04	-88
L1	0.230	4.18E+05	179	9.83E-02	-25
L3	5.10E+04	3.20E+05	180	5.73E+04	-92
L4	5.10E+04	3.20E+05	180	5.73E+04	-92
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	180	5.46E+04	-90

Table A–368. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.18E+05	-4.18E+05	4.17E+05
A2	-2.04E+05	4.90E+05	-2.05E+05	4.89E+05
FD	-1.94E+05	4.19E+05	-1.94E+05	4.18E+05
L1	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-185. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

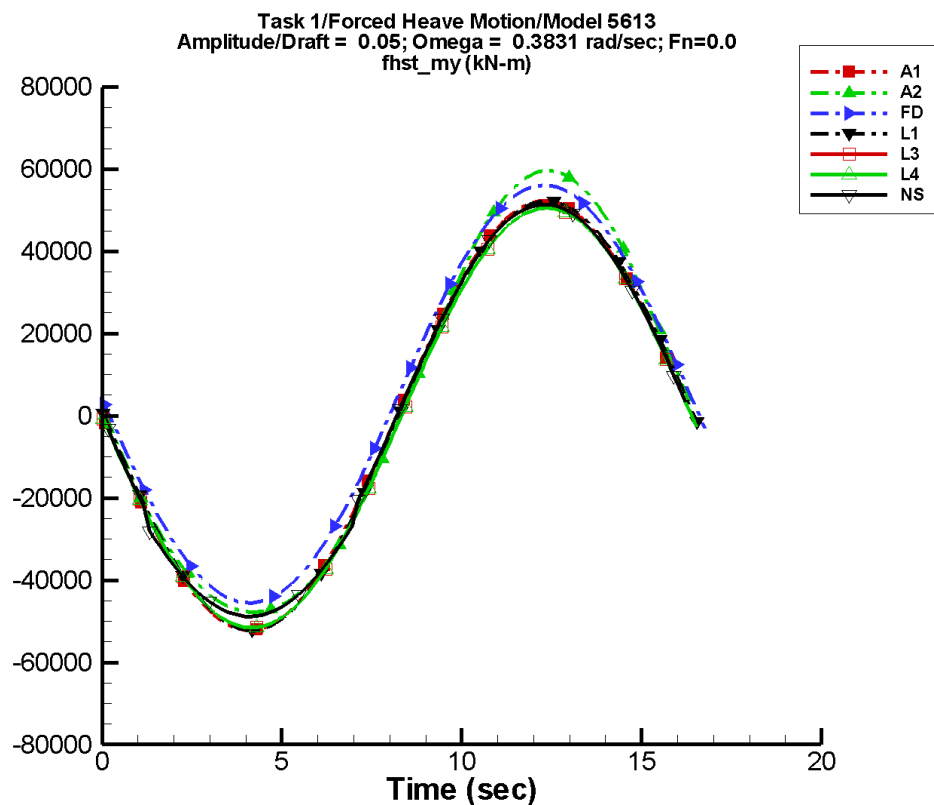
Table A–369. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.575	8.36E+05	180	0.871	164
A2	2.33E+05	5.90E+05	179	2.14E+05	-93
FD	1.91E+05	5.08E+05	-179	1.86E+05	-88
L1	0.525	8.35E+05	179	3.90E-02	-177
L3	1.81E+05	5.01E+05	180	1.84E+05	-92
L4	1.81E+05	5.01E+05	180	1.84E+05	-92
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	-180	1.80E+05	-90

Table A–370. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.36E+05	-8.36E+05	8.35E+05
A2	-2.34E+05	1.00E+06	-2.08E+05	1.00E+06
FD	-1.94E+05	8.30E+05	-1.93E+05	8.29E+05
L1	-8.35E+05	8.35E+05	-8.35E+05	8.35E+05
L3	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05
L4	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-186. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

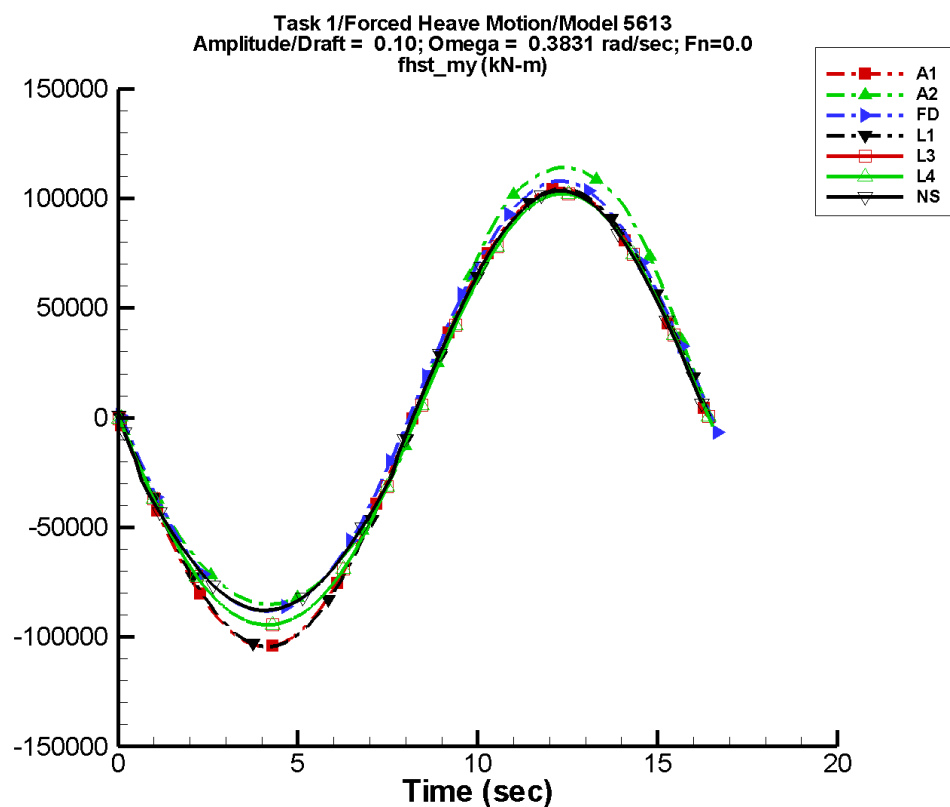
Table A–371. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.41E-03	5.22E+04	-180	6.75E-03	64
A2	2.75E+03	5.40E+04	178	3.21E+03	-95
FD	4.69E+03	5.09E+04	-180	539.	-89
L1	7.03E-02	5.22E+04	179	1.84E-02	-65
L3	-968.	5.12E+04	179	433.	-90
L4	-968.	5.12E+04	179	433.	-90
NF	—	—	—	—	—
NS	145.	5.09E+04	180	750.	-88

Table A–372. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.24E+04	5.20E+04
A2	-4.78E+04	5.96E+04	-4.78E+04	5.93E+04
FD	-4.55E+04	5.60E+04	-4.54E+04	5.58E+04
L1	-5.22E+04	5.22E+04	-5.21E+04	5.21E+04
L3	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04
L4	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-187. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

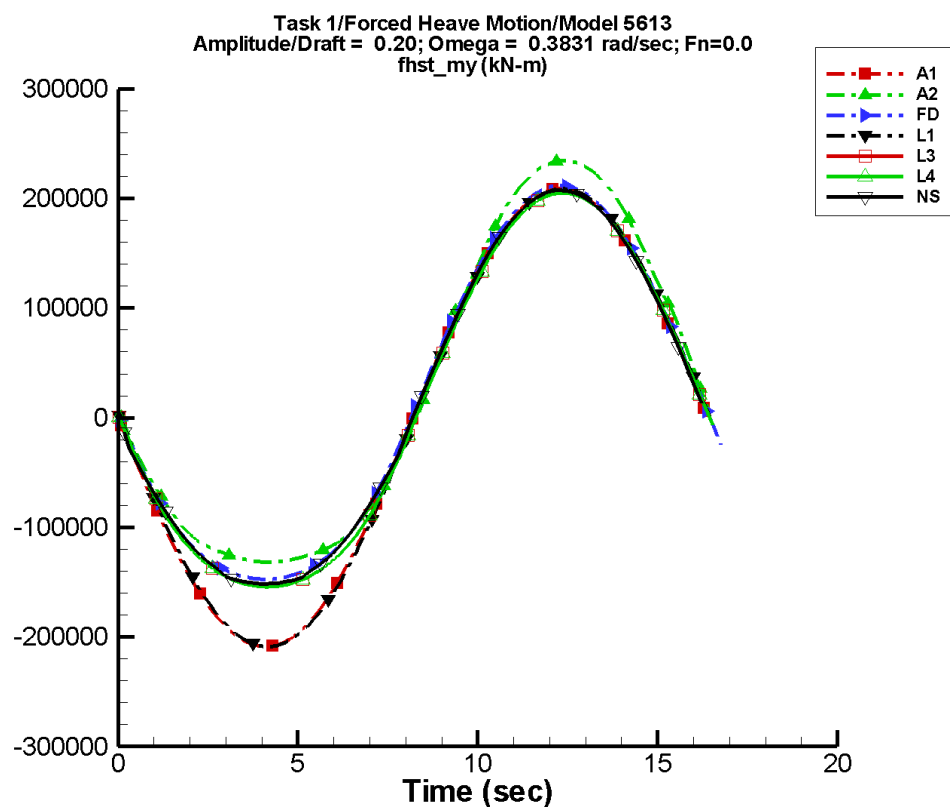
Table A–373. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	4.44E-04	1.04E+05	-180	1.54E-02	102
A2	8.68E+03	1.02E+05	178	7.81E+03	-95
FD	6.78E+03	9.91E+04	-180	2.99E+03	-88
L1	0.136	1.04E+05	179	4.96E-02	-40
L3	896.	9.95E+04	179	2.75E+03	-90
L4	896.	9.95E+04	179	2.75E+03	-90
NF	—	—	—	—	—
NS	3.55E+03	9.69E+04	180	4.39E+03	-90

Table A–374. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.05E+05	1.04E+05
A2	-8.51E+04	1.14E+05	-8.52E+04	1.14E+05
FD	-8.81E+04	1.08E+05	-8.78E+04	1.08E+05
L1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L3	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05
L4	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-188. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

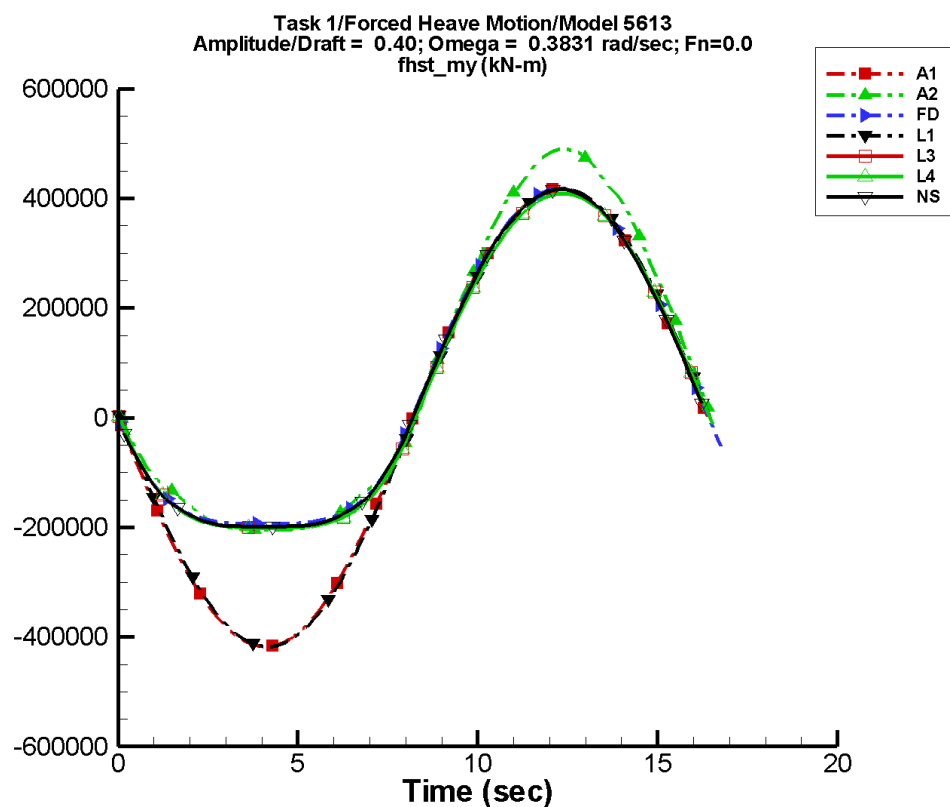
Table A–375. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.14E-06	2.09E+05	-180	1.97E-02	62
A2	2.71E+04	1.89E+05	178	2.63E+04	-95
FD	1.73E+04	1.84E+05	-180	1.47E+04	-88
L1	0.255	2.09E+05	179	2.04E-02	-72
L3	1.09E+04	1.84E+05	179	1.43E+04	-90
L4	1.09E+04	1.84E+05	179	1.43E+04	-90
NF	—	—	—	—	—
NS	1.40E+04	1.84E+05	-180	1.39E+04	-90

Table A–376. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.09E+05	2.08E+05
A2	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05
FD	-1.47E+05	2.12E+05	-1.47E+05	2.11E+05
L1	-2.09E+05	2.09E+05	-2.08E+05	2.08E+05
L3	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
L4	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-189. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

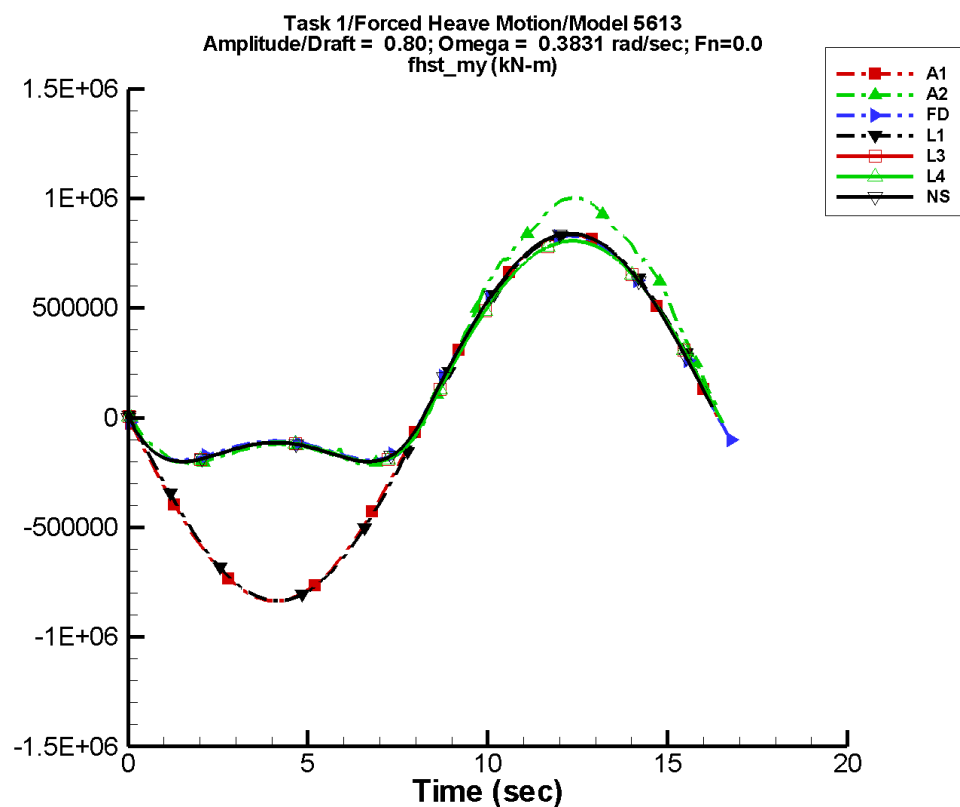
Table A–377. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.24E-02	4.18E+05	-180	4.44E-02	80
A2	7.69E+04	3.53E+05	178	6.86E+04	-94
FD	5.79E+04	3.21E+05	-180	5.61E+04	-89
L1	0.596	4.18E+05	179	0.124	-61
L3	5.01E+04	3.19E+05	179	5.50E+04	-90
L4	5.01E+04	3.19E+05	179	5.50E+04	-90
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	-180	5.46E+04	-90

Table A–378. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.18E+05	-4.19E+05	4.16E+05
A2	-2.04E+05	4.90E+05	-2.05E+05	4.88E+05
FD	-1.94E+05	4.19E+05	-1.94E+05	4.17E+05
L1	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

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

Figure A-190. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

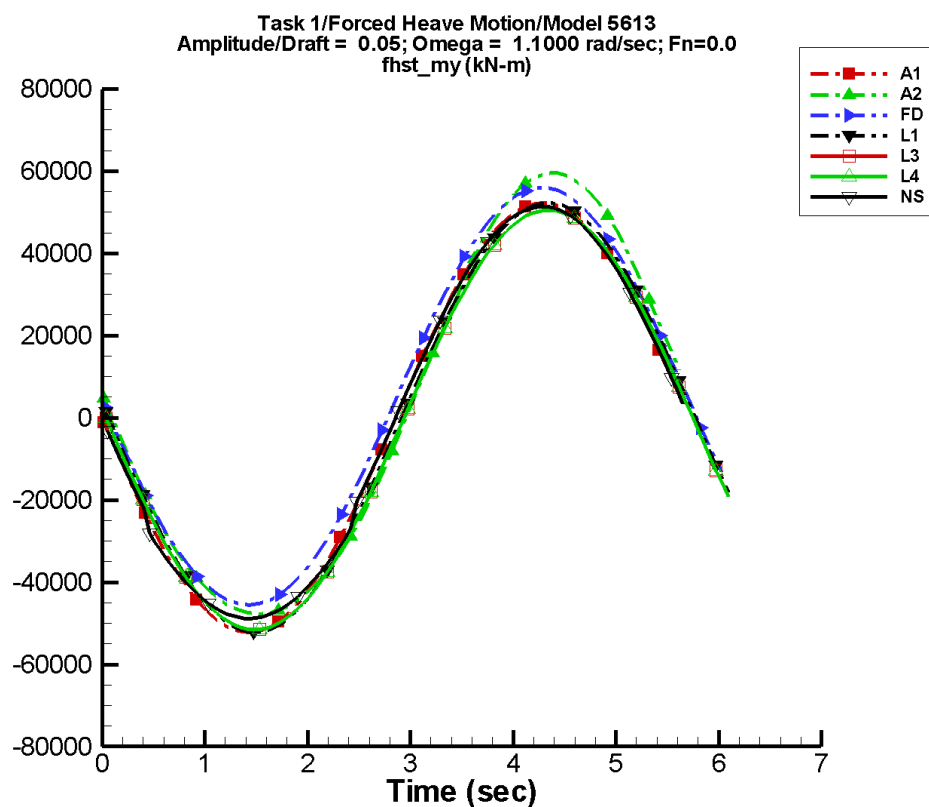
Table A–379. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	8.56E-03	8.36E+05	-180	0.113	98
A2	2.33E+05	5.89E+05	178	2.14E+05	-95
FD	1.91E+05	5.06E+05	-179	1.82E+05	-89
L1	1.15	8.35E+05	179	0.251	-56
L3	1.79E+05	4.97E+05	180	1.78E+05	-90
L4	1.79E+05	4.97E+05	180	1.78E+05	-90
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	180	1.80E+05	-90

Table A–380. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.36E+05	-8.38E+05	8.33E+05
A2	-2.10E+05	1.00E+06	-2.07E+05	9.98E+05
FD	-1.94E+05	8.30E+05	-1.92E+05	8.27E+05
L1	-8.35E+05	8.35E+05	-8.34E+05	8.34E+05
L3	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05
L4	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

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

Figure A-191. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

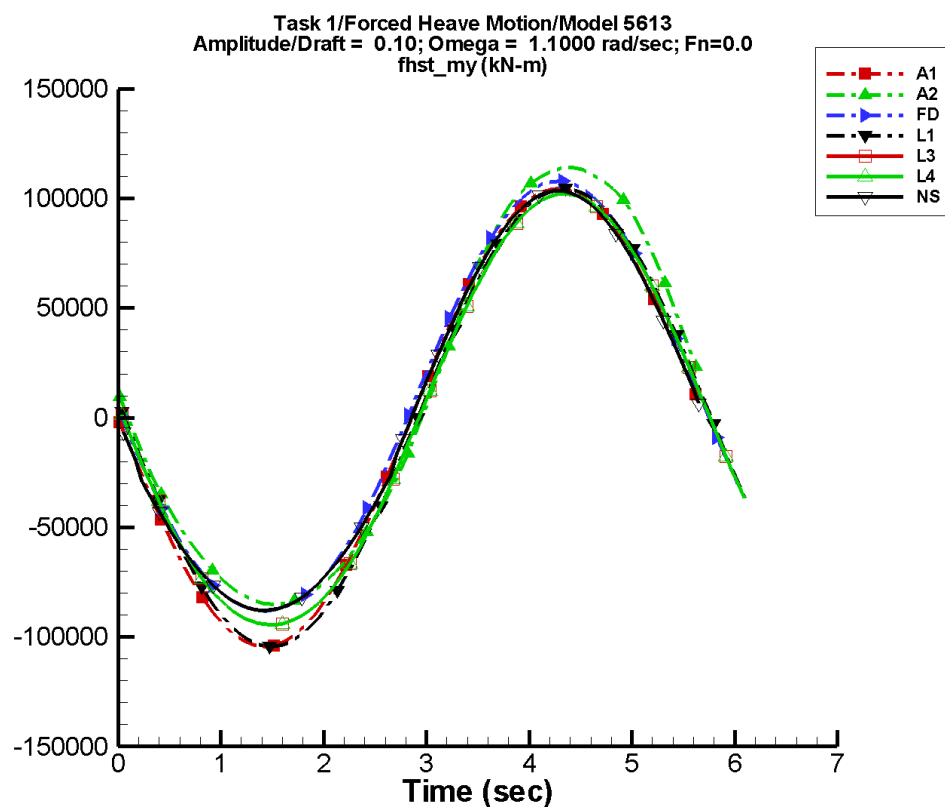
Table A–381. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	5.85E-02	5.22E+04	180	8.78E-02	169
A2	2.75E+03	5.40E+04	174	3.19E+03	-103
FD	4.69E+03	5.10E+04	-180	564.	-90
L1	0.113	5.22E+04	176	6.86E-03	20
L3	-966.	5.12E+04	176	464.	-98
L4	-966.	5.12E+04	176	464.	-98
NF	—	—	—	—	—
NS	145.	5.09E+04	180	750.	-88

Table A–382. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.10E+04	5.06E+04
A2	-4.78E+04	5.95E+04	-4.65E+04	5.77E+04
FD	-4.55E+04	5.60E+04	-4.41E+04	5.44E+04
L1	-5.22E+04	5.22E+04	-5.16E+04	5.16E+04
L3	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04
L4	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04

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

Figure A-192. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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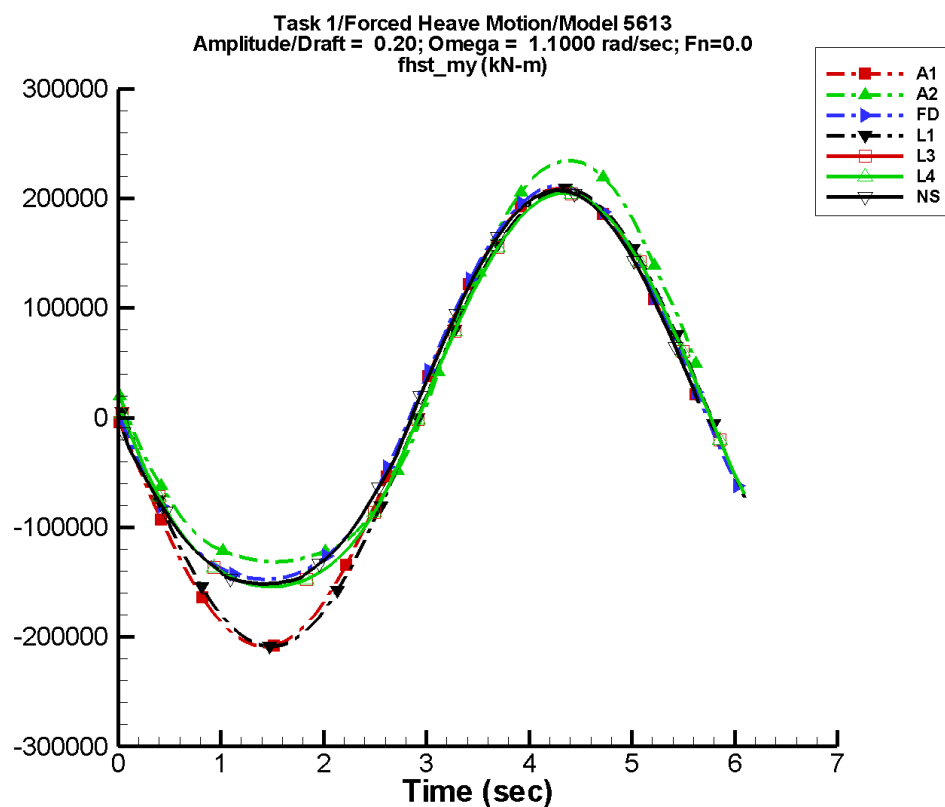
Table A–383. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.109	1.04E+05	180	0.166	168
A2	8.66E+03	1.02E+05	174	7.79E+03	-103
FD	6.78E+03	9.92E+04	-180	3.16E+03	-90
L1	0.220	1.04E+05	176	1.19E-02	-166
L3	909.	9.95E+04	176	2.95E+03	-98
L4	909.	9.95E+04	176	2.95E+03	-98
NF	—	—	—	—	—
NS	3.55E+03	9.69E+04	180	4.39E+03	-90

Table A–384. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.02E+05	1.01E+05
A2	-8.51E+04	1.14E+05	-8.28E+04	1.11E+05
FD	-8.81E+04	1.08E+05	-8.57E+04	1.05E+05
L1	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L3	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05
L4	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

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

Figure A-193. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

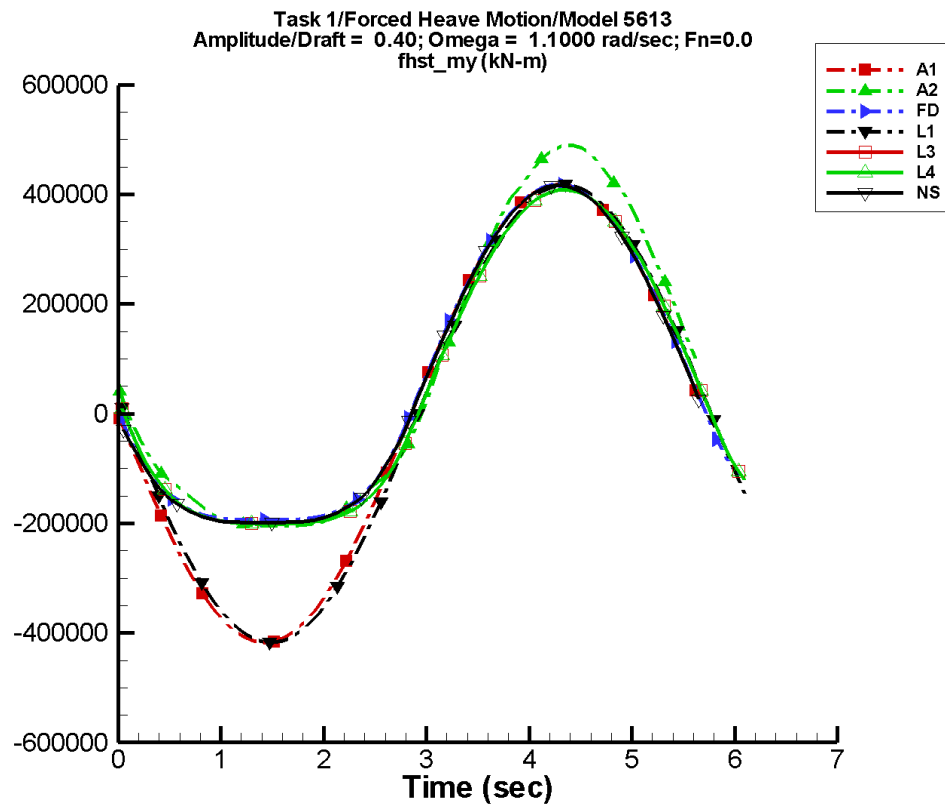
Table A–385. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.218	2.09E+05	180	0.347	169
A2	2.71E+04	1.89E+05	174	2.61E+04	-104
FD	1.73E+04	1.85E+05	-180	1.56E+04	-90
L1	0.437	2.09E+05	176	2.00E-02	164
L3	1.10E+04	1.85E+05	176	1.53E+04	-98
L4	1.10E+04	1.85E+05	176	1.53E+04	-98
NF	—	—	—	—	—
NS	1.40E+04	1.84E+05	-180	1.39E+04	-90

Table A–386. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.04E+05	2.02E+05
A2	-1.32E+05	2.34E+05	-1.29E+05	2.28E+05
FD	-1.48E+05	2.11E+05	-1.44E+05	2.05E+05
L1	-2.09E+05	2.09E+05	-2.06E+05	2.06E+05
L3	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05
L4	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

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

Figure A-194. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

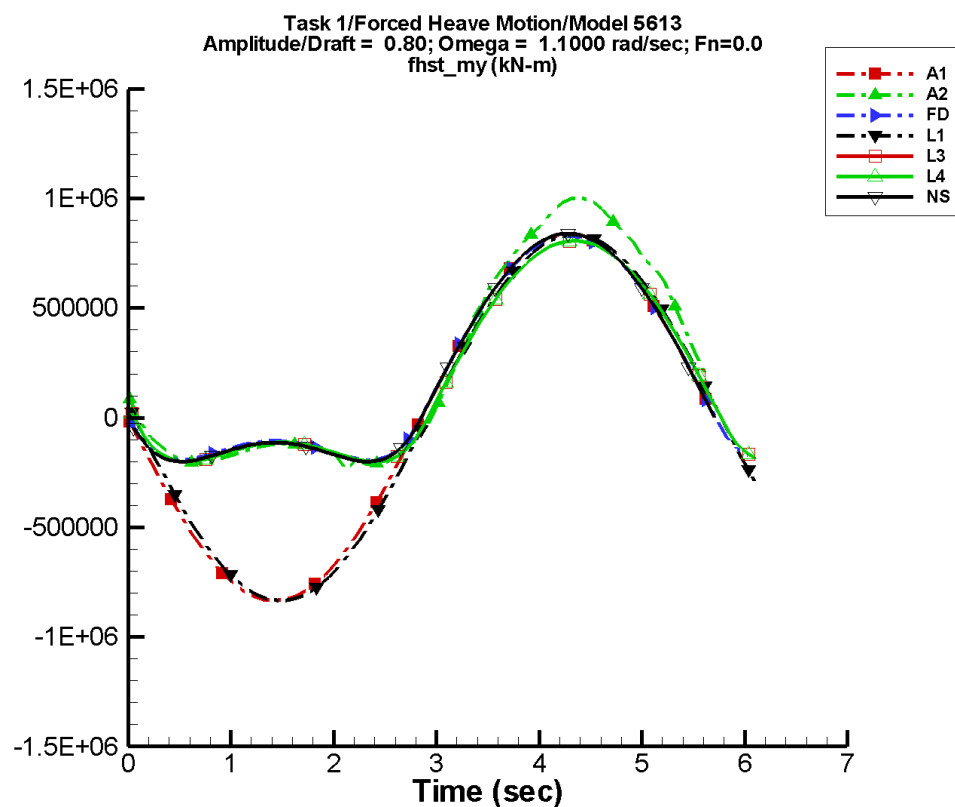
Table A–387. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.446	4.18E+05	180	0.688	170
A2	7.69E+04	3.53E+05	174	6.84E+04	-103
FD	5.78E+04	3.22E+05	-180	5.91E+04	-90
L1	0.902	4.17E+05	176	8.51E-02	-25
L3	5.03E+04	3.21E+05	176	5.84E+04	-98
L4	5.03E+04	3.21E+05	176	5.84E+04	-98
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	-180	5.46E+04	-90

Table A–388. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.17E+05	-4.08E+05	4.05E+05
A2	-2.04E+05	4.90E+05	-2.03E+05	4.70E+05
FD	-1.94E+05	4.18E+05	-1.93E+05	4.05E+05
L1	-4.17E+05	4.17E+05	-4.13E+05	4.13E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

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

Figure A-195. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

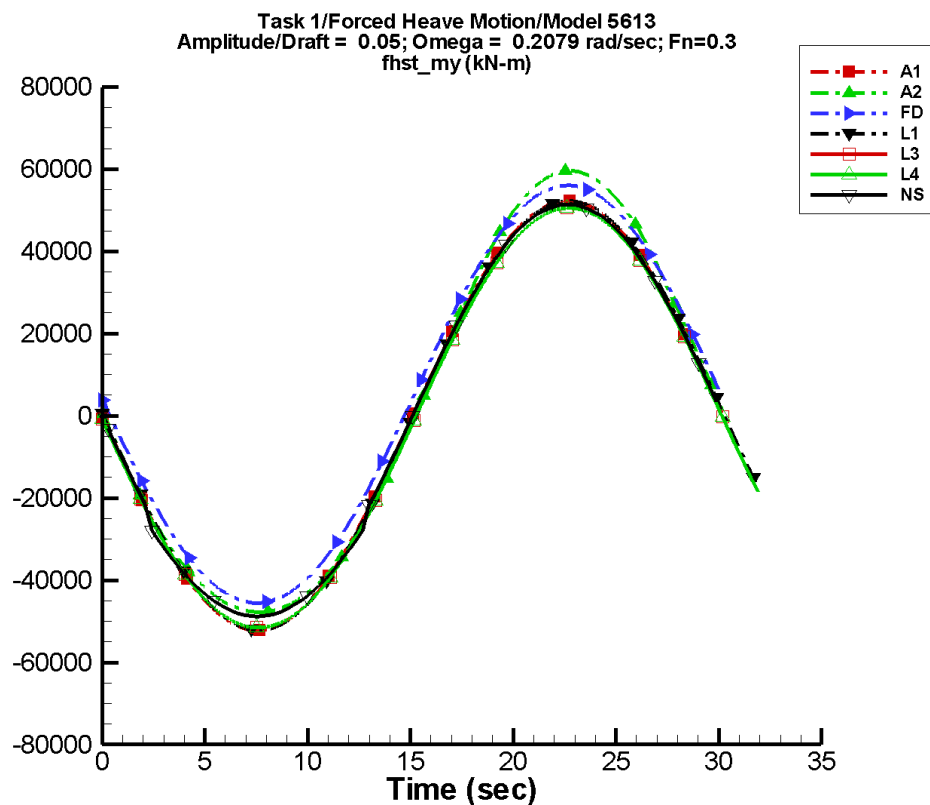
Table A–389. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.905	8.36E+05	180	1.37	170
A2	2.31E+05	5.92E+05	174	2.12E+05	-103
FD	1.91E+05	5.09E+05	-180	1.91E+05	-90
L1	1.86	8.35E+05	176	0.132	-11
L3	1.79E+05	5.02E+05	176	1.88E+05	-98
L4	1.79E+05	5.02E+05	176	1.88E+05	-98
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	-180	1.80E+05	-90

Table A–390. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.35E+05	-8.15E+05	8.09E+05
A2	-2.34E+05	1.00E+06	-1.94E+05	9.50E+05
FD	-1.94E+05	8.29E+05	-1.75E+05	8.03E+05
L1	-8.35E+05	8.35E+05	-8.25E+05	8.26E+05
L3	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05
L4	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

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

Figure A-196. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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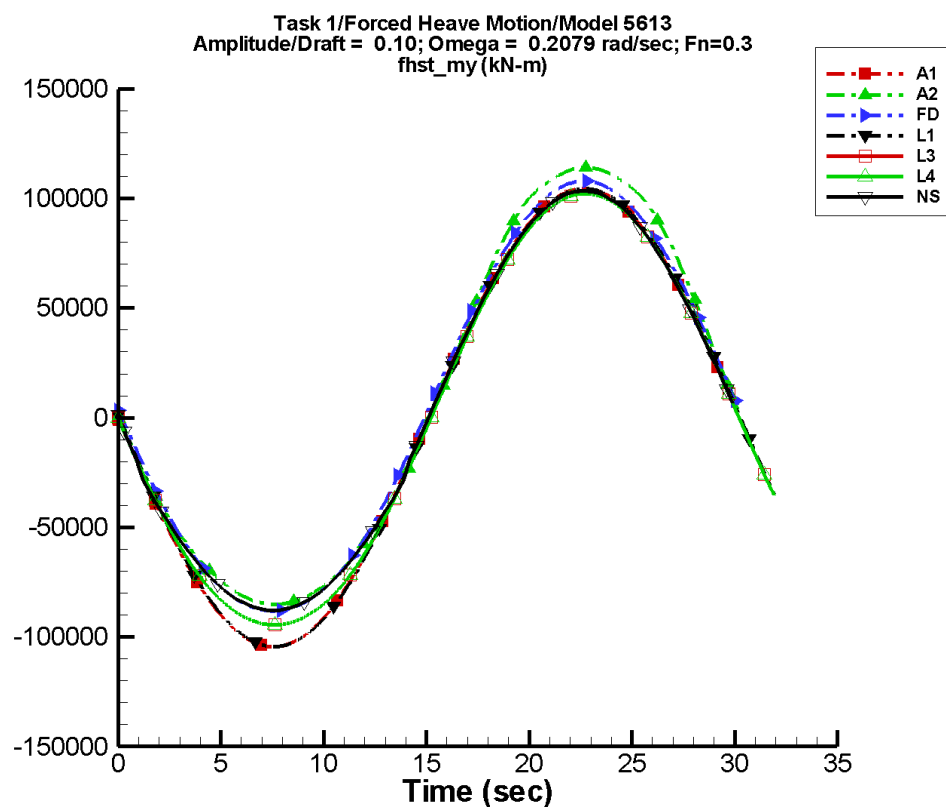
Table A–391. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	3.50E-02	5.22E+04	180	5.30E-02	161
A2	2.75E+03	5.40E+04	179	3.21E+03	-93
FD	4.69E+03	5.10E+04	-180	549.	-88
L1	3.33E-02	5.22E+04	179	4.06E-03	7
L3	-963.	5.12E+04	179	458.	-92
L4	-963.	5.12E+04	179	458.	-92
NF	—	—	—	—	—
NS	158.	5.09E+04	180	733.	-90

Table A–392. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04
A2	-4.78E+04	5.96E+04	-4.77E+04	5.95E+04
FD	-4.55E+04	5.60E+04	-4.55E+04	5.60E+04
L1	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04
L3	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04
L4	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.09E+04

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

Figure A-197. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

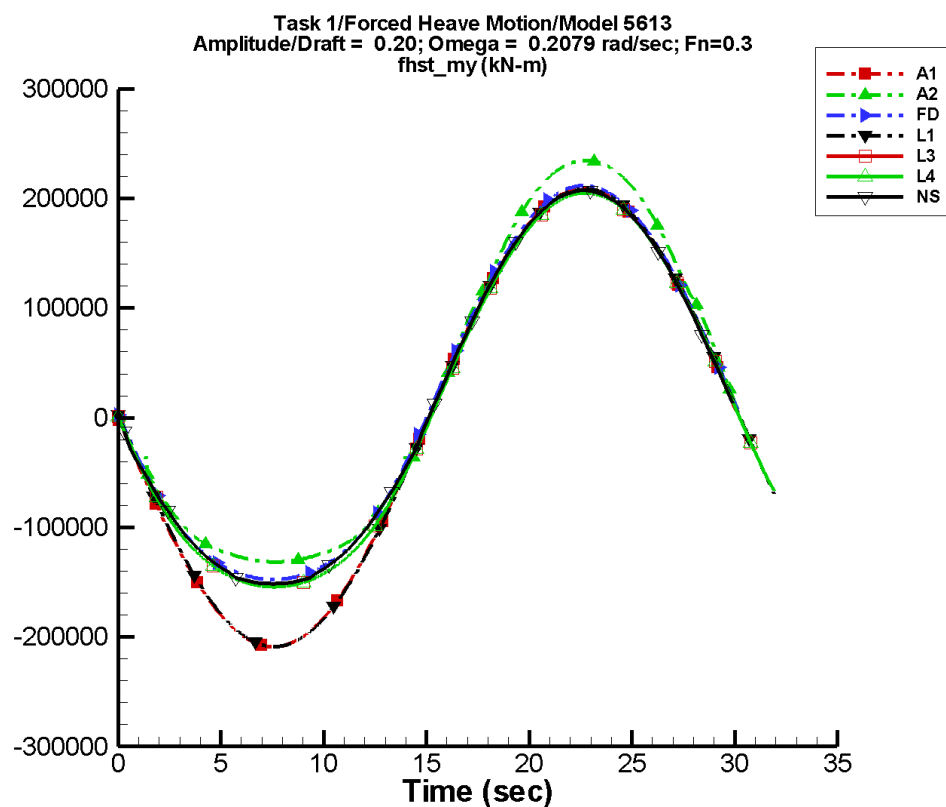
Table A–393. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	7.23E-02	1.04E+05	180	0.107	160
A2	8.68E+03	1.02E+05	179	7.80E+03	-93
FD	6.79E+03	9.91E+04	-180	3.05E+03	-88
L1	5.86E-02	1.04E+05	179	2.55E-02	63
L3	929.	9.95E+04	179	2.93E+03	-92
L4	929.	9.95E+04	179	2.93E+03	-92
NF	—	—	—	—	—
NS	3.57E+03	9.69E+04	180	4.36E+03	-90

Table A–394. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
A2	-8.51E+04	1.14E+05	-8.51E+04	1.14E+05
FD	-8.81E+04	1.08E+05	-8.80E+04	1.08E+05
L1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L3	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05
L4	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-198. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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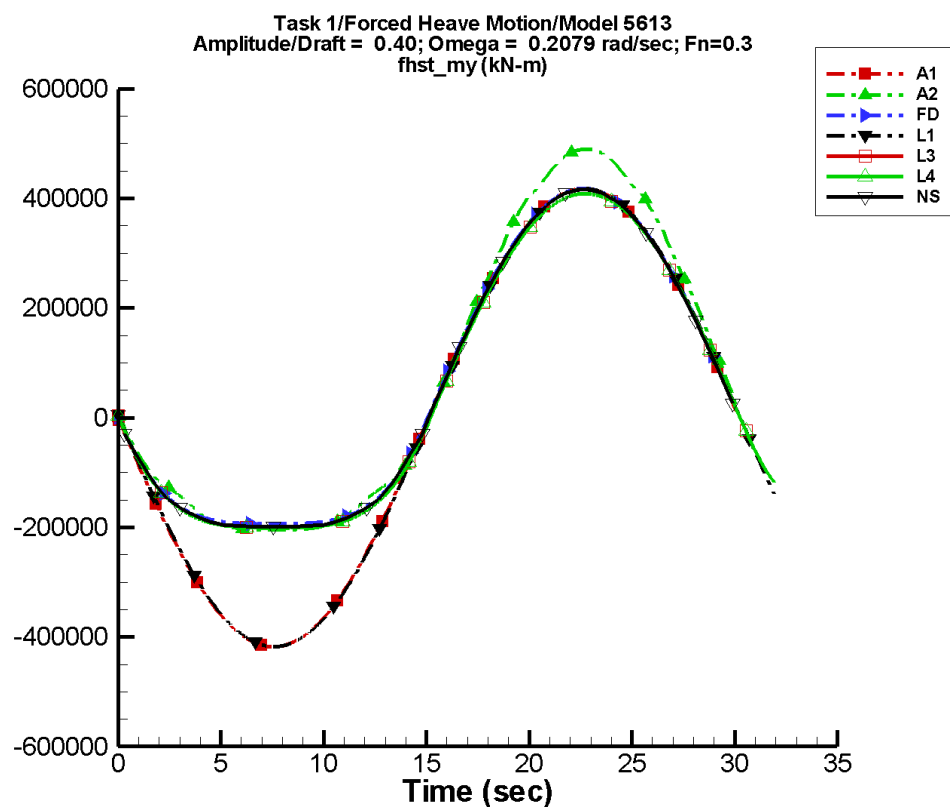
Table A–395. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.146	2.09E+05	180	0.219	164
A2	2.72E+04	1.89E+05	179	2.61E+04	-93
FD	1.74E+04	1.84E+05	-180	1.50E+04	-88
L1	0.152	2.09E+05	179	3.42E-02	-29
L3	1.11E+04	1.85E+05	179	1.51E+04	-92
L4	1.11E+04	1.85E+05	179	1.51E+04	-92
NF	—	—	—	—	—
NS	1.40E+04	1.83E+05	180	1.40E+04	-90

Table A–396. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05
A2	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05
FD	-1.48E+05	2.12E+05	-1.47E+05	2.12E+05
L1	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05
L3	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
L4	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-199. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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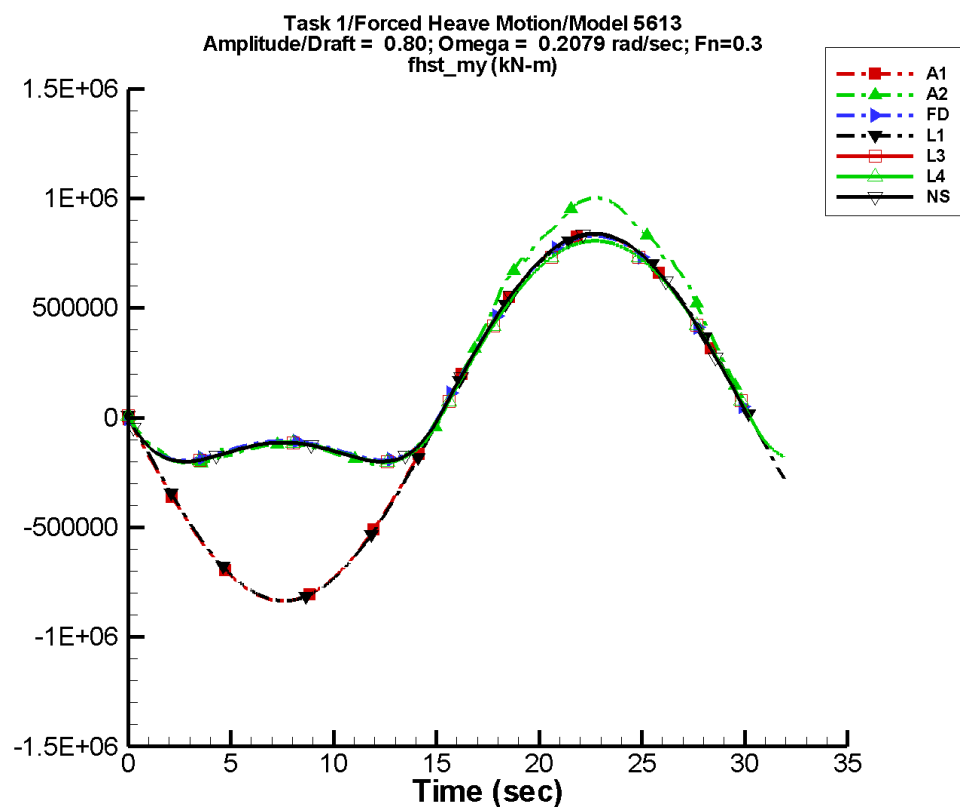
Table A–397. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.302	4.18E+05	180	0.439	163
A2	7.68E+04	3.53E+05	179	6.85E+04	-92
FD	5.80E+04	3.21E+05	-180	5.73E+04	-88
L1	0.230	4.18E+05	179	9.83E-02	-25
L3	5.10E+04	3.20E+05	180	5.73E+04	-92
L4	5.10E+04	3.20E+05	180	5.73E+04	-92
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	180	5.46E+04	-90

Table A–398. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.18E+05	-4.18E+05	4.17E+05
A2	-2.04E+05	4.90E+05	-2.05E+05	4.89E+05
FD	-1.94E+05	4.19E+05	-1.94E+05	4.18E+05
L1	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

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

Figure A-200. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

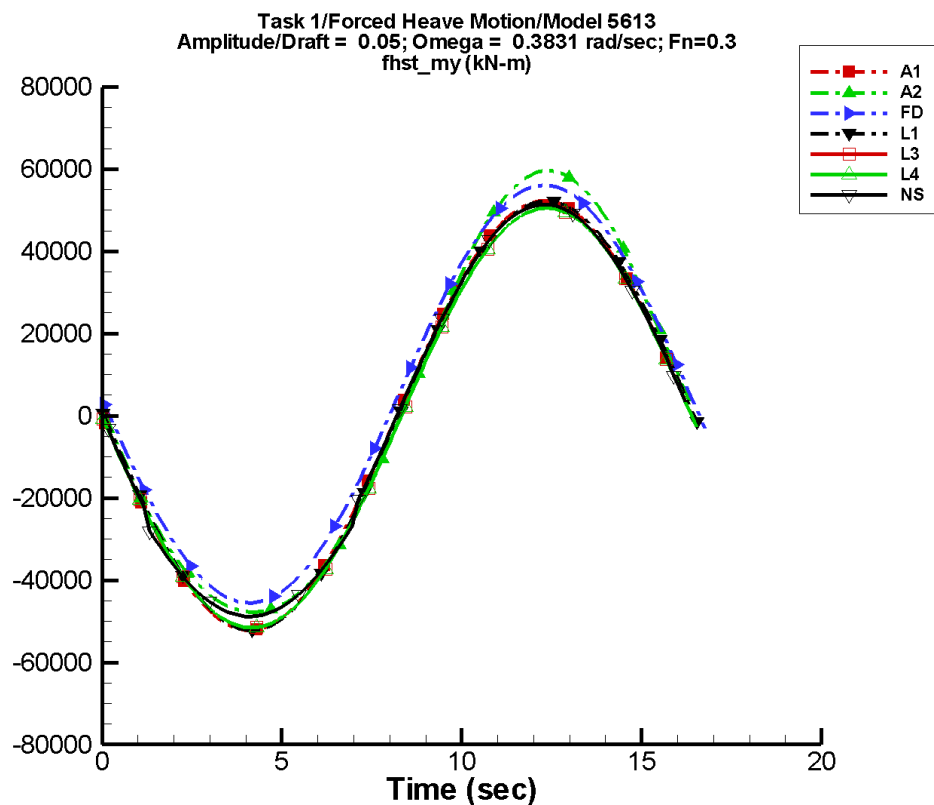
Table A–399. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.575	8.36E+05	180	0.871	164
A2	2.33E+05	5.90E+05	179	2.14E+05	-93
FD	1.91E+05	5.08E+05	-179	1.86E+05	-88
L1	0.525	8.35E+05	179	3.90E-02	-177
L3	1.81E+05	5.01E+05	180	1.84E+05	-92
L4	1.81E+05	5.01E+05	180	1.84E+05	-92
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	-180	1.80E+05	-90

Table A–400. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.36E+05	-8.36E+05	8.35E+05
A2	-2.34E+05	1.00E+06	-2.08E+05	1.00E+06
FD	-1.94E+05	8.30E+05	-1.93E+05	8.29E+05
L1	-8.35E+05	8.35E+05	-8.35E+05	8.35E+05
L3	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05
L4	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

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

Figure A-201. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

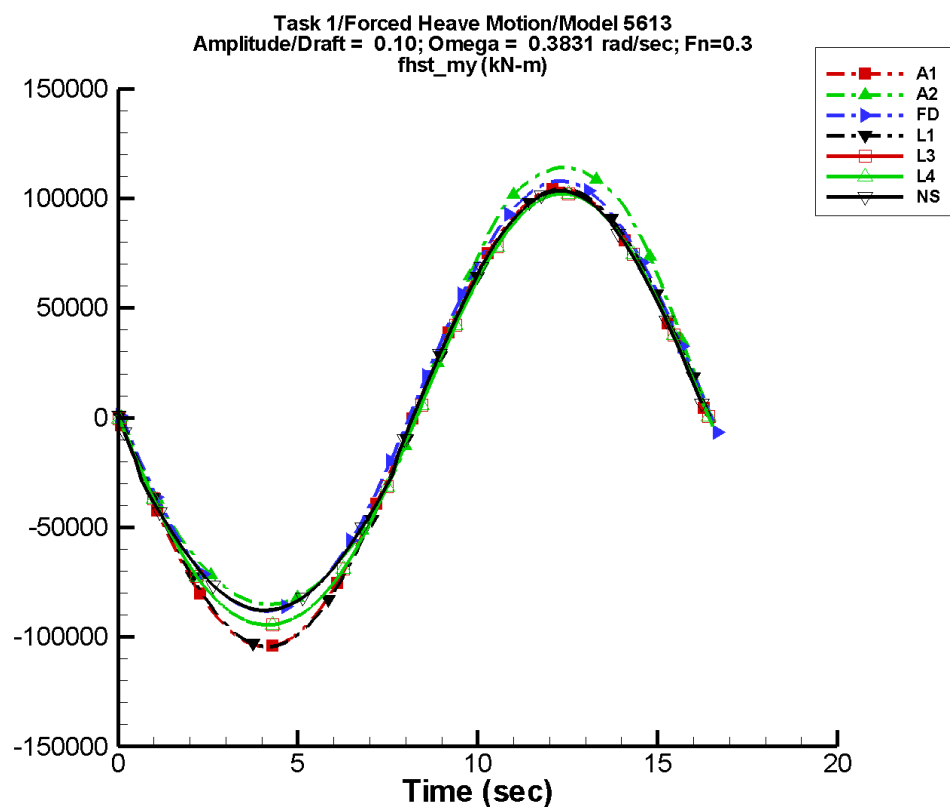
Table A–401. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.41E-03	5.22E+04	-180	6.75E-03	64
A2	2.75E+03	5.40E+04	178	3.21E+03	-95
FD	4.69E+03	5.09E+04	-180	539.	-89
L1	7.03E-02	5.22E+04	179	1.84E-02	-65
L3	-968.	5.12E+04	179	433.	-90
L4	-968.	5.12E+04	179	433.	-90
NF	—	—	—	—	—
NS	145.	5.09E+04	180	750.	-88

Table A–402. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.24E+04	5.20E+04
A2	-4.78E+04	5.96E+04	-4.78E+04	5.93E+04
FD	-4.55E+04	5.60E+04	-4.54E+04	5.58E+04
L1	-5.22E+04	5.22E+04	-5.21E+04	5.21E+04
L3	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04
L4	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04

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

Figure A-202. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

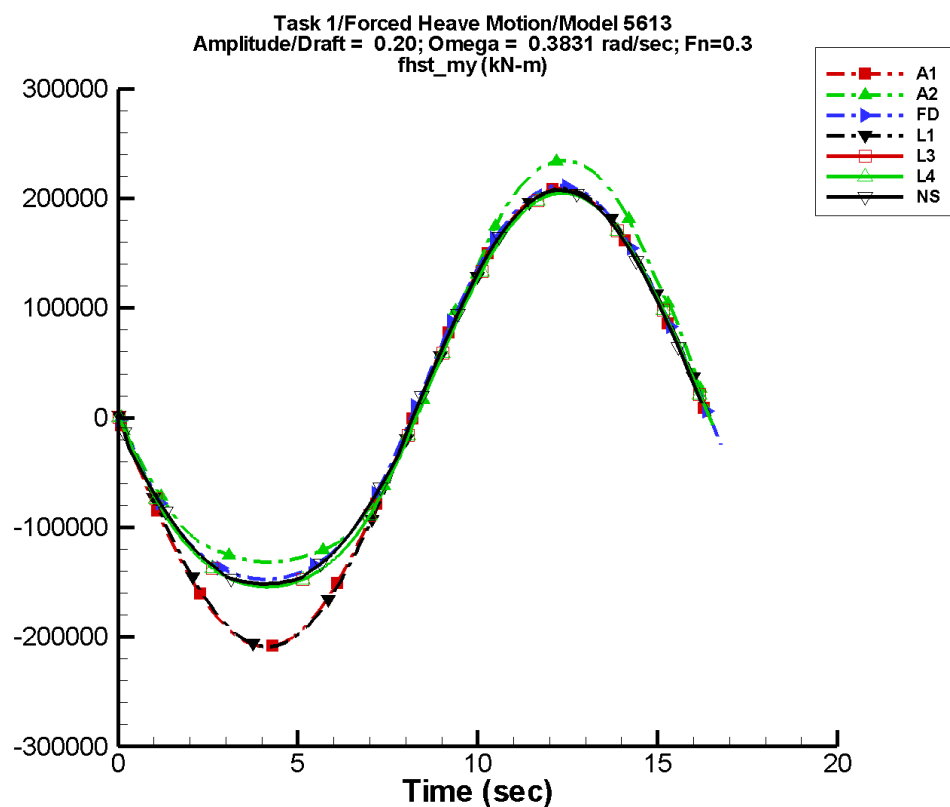
Table A-403. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	4.44E-04	1.04E+05	-180	1.54E-02	102
A2	8.68E+03	1.02E+05	178	7.81E+03	-95
FD	6.78E+03	9.91E+04	-180	2.99E+03	-88
L1	0.136	1.04E+05	179	4.96E-02	-40
L3	896.	9.95E+04	179	2.75E+03	-90
L4	896.	9.95E+04	179	2.75E+03	-90
NF	—	—	—	—	—
NS	3.55E+03	9.69E+04	180	4.39E+03	-90

Table A-404. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.05E+05	1.04E+05
A2	-8.51E+04	1.14E+05	-8.52E+04	1.14E+05
FD	-8.81E+04	1.08E+05	-8.78E+04	1.08E+05
L1	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L3	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05
L4	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

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

Figure A-203. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

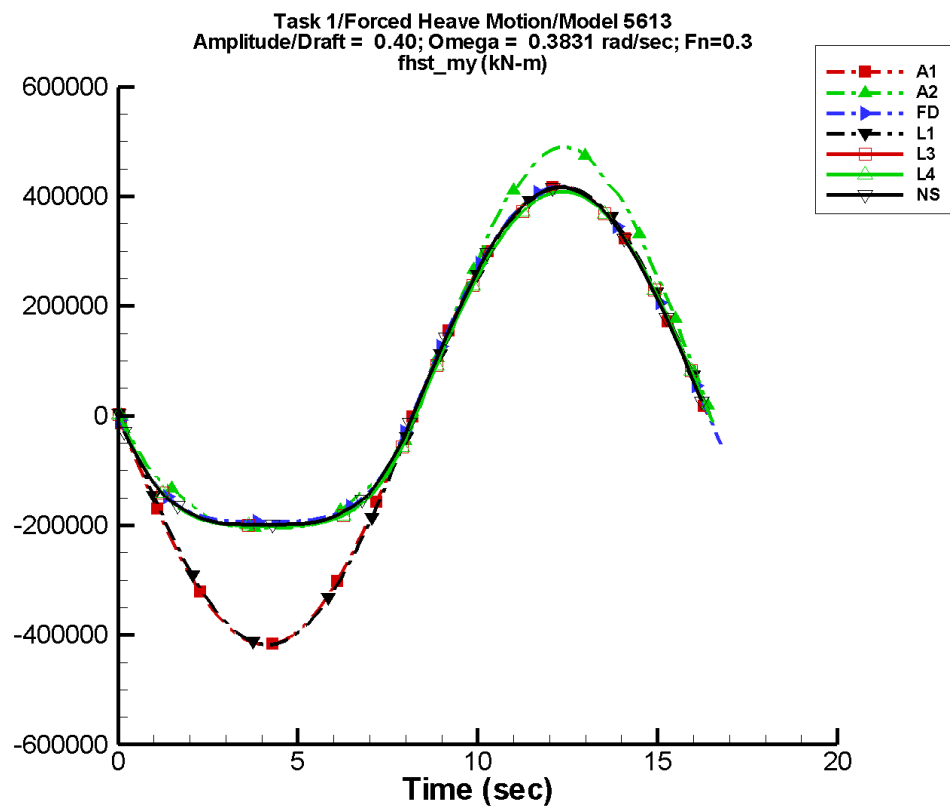
Table A–405. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.14E-06	2.09E+05	-180	1.97E-02	62
A2	2.71E+04	1.89E+05	178	2.63E+04	-95
FD	1.73E+04	1.84E+05	-180	1.47E+04	-88
L1	0.255	2.09E+05	179	2.04E-02	-72
L3	1.09E+04	1.84E+05	179	1.43E+04	-90
L4	1.09E+04	1.84E+05	179	1.43E+04	-90
NF	—	—	—	—	—
NS	1.40E+04	1.84E+05	-180	1.39E+04	-90

Table A–406. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.09E+05	2.08E+05
A2	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05
FD	-1.47E+05	2.12E+05	-1.47E+05	2.11E+05
L1	-2.09E+05	2.09E+05	-2.08E+05	2.08E+05
L3	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
L4	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-204. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

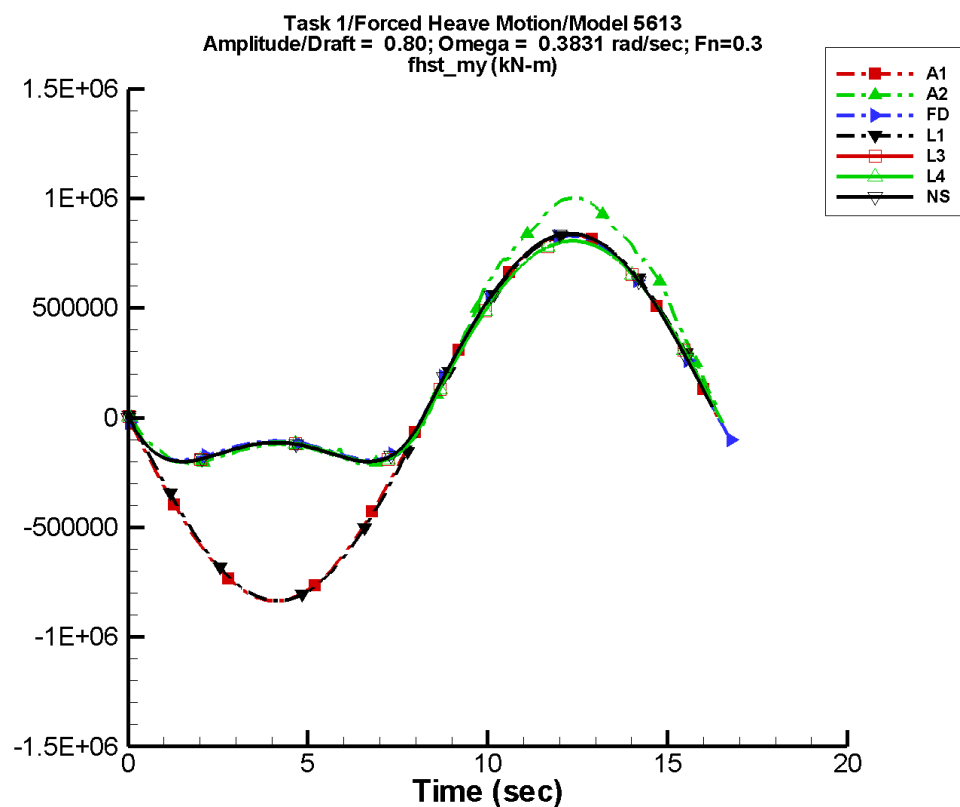
Table A–407. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.24E-02	4.18E+05	-180	4.44E-02	80
A2	7.69E+04	3.53E+05	178	6.86E+04	-94
FD	5.79E+04	3.21E+05	-180	5.61E+04	-89
L1	0.596	4.18E+05	179	0.124	-61
L3	5.01E+04	3.19E+05	179	5.50E+04	-90
L4	5.01E+04	3.19E+05	179	5.50E+04	-90
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	-180	5.46E+04	-90

Table A–408. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.18E+05	-4.19E+05	4.16E+05
A2	-2.04E+05	4.90E+05	-2.05E+05	4.88E+05
FD	-1.94E+05	4.19E+05	-1.94E+05	4.17E+05
L1	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

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

Figure A-205. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

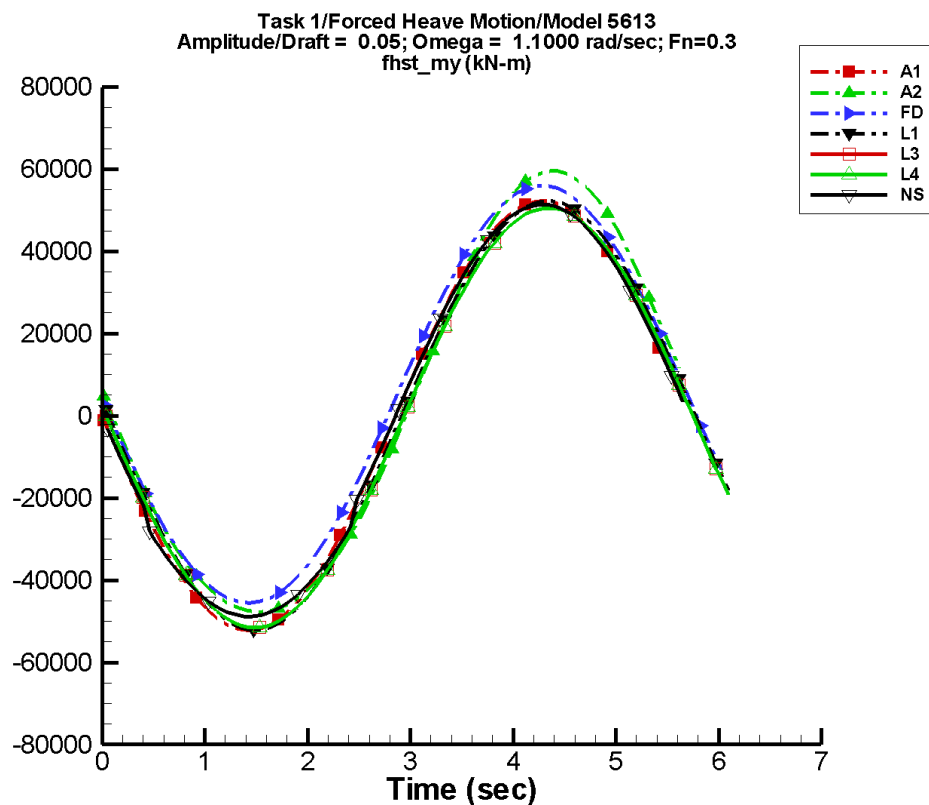
Table A–409. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	8.56E-03	8.36E+05	-180	0.113	98
A2	2.33E+05	5.89E+05	178	2.14E+05	-95
FD	1.91E+05	5.06E+05	-179	1.82E+05	-89
L1	1.15	8.35E+05	179	0.251	-56
L3	1.79E+05	4.97E+05	180	1.78E+05	-90
L4	1.79E+05	4.97E+05	180	1.78E+05	-90
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	180	1.80E+05	-90

Table A–410. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.36E+05	-8.38E+05	8.33E+05
A2	-2.10E+05	1.00E+06	-2.07E+05	9.98E+05
FD	-1.94E+05	8.30E+05	-1.92E+05	8.27E+05
L1	-8.35E+05	8.35E+05	-8.34E+05	8.34E+05
L3	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05
L4	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-206. Time history of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

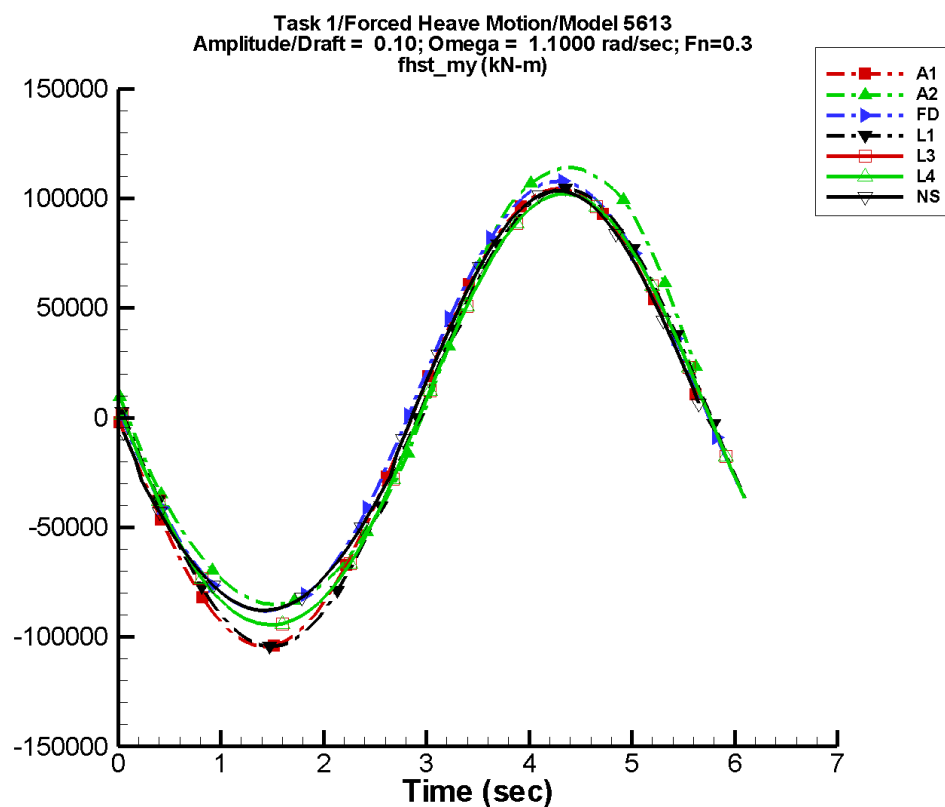
Table A–411. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	5.85E-02	5.22E+04	180	8.78E-02	169
A2	2.75E+03	5.40E+04	174	3.19E+03	-103
FD	4.69E+03	5.10E+04	-180	564.	-90
L1	0.113	5.22E+04	176	6.86E-03	20
L3	-966.	5.12E+04	176	464.	-98
L4	-966.	5.12E+04	176	464.	-98
NF	—	—	—	—	—
NS	145.	5.09E+04	180	750.	-88

Table A–412. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.22E+04	5.22E+04	-5.10E+04	5.06E+04
A2	-4.78E+04	5.95E+04	-4.65E+04	5.77E+04
FD	-4.55E+04	5.60E+04	-4.41E+04	5.44E+04
L1	-5.22E+04	5.22E+04	-5.16E+04	5.16E+04
L3	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04
L4	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04
NF	—	—	—	—
NS	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-207. Time history of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

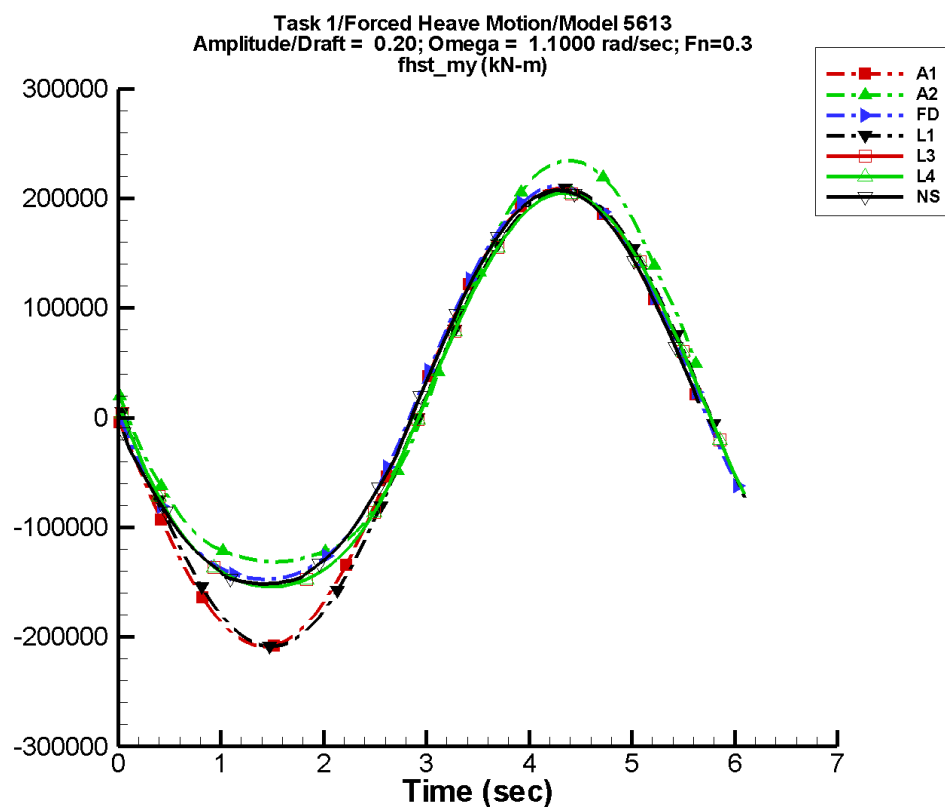
Table A–413. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.109	1.04E+05	180	0.166	168
A2	8.66E+03	1.02E+05	174	7.79E+03	-103
FD	6.78E+03	9.92E+04	-180	3.16E+03	-90
L1	0.220	1.04E+05	176	1.19E-02	-166
L3	909.	9.95E+04	176	2.95E+03	-98
L4	909.	9.95E+04	176	2.95E+03	-98
NF	—	—	—	—	—
NS	3.55E+03	9.69E+04	180	4.39E+03	-90

Table A–414. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.04E+05	1.04E+05	-1.02E+05	1.01E+05
A2	-8.51E+04	1.14E+05	-8.28E+04	1.11E+05
FD	-8.81E+04	1.08E+05	-8.57E+04	1.05E+05
L1	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L3	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05
L4	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05
NF	—	—	—	—
NS	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05

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

Figure A-208. Time history of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

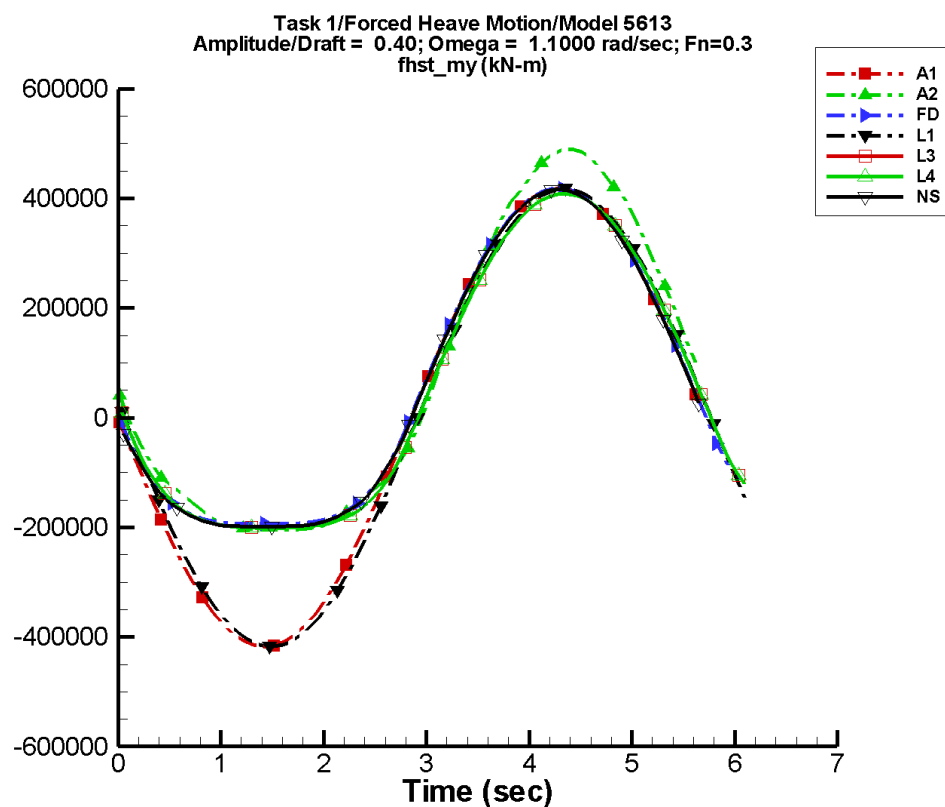
Table A–415. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.218	2.09E+05	180	0.347	169
A2	2.71E+04	1.89E+05	174	2.61E+04	-104
FD	1.73E+04	1.85E+05	-180	1.56E+04	-90
L1	0.437	2.09E+05	176	2.00E-02	164
L3	1.10E+04	1.85E+05	176	1.53E+04	-98
L4	1.10E+04	1.85E+05	176	1.53E+04	-98
NF	—	—	—	—	—
NS	1.40E+04	1.84E+05	-180	1.39E+04	-90

Table A–416. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.09E+05	2.09E+05	-2.04E+05	2.02E+05
A2	-1.32E+05	2.34E+05	-1.29E+05	2.28E+05
FD	-1.48E+05	2.11E+05	-1.44E+05	2.05E+05
L1	-2.09E+05	2.09E+05	-2.06E+05	2.06E+05
L3	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05
L4	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05
NF	—	—	—	—
NS	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05

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

Figure A-209. Time history of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

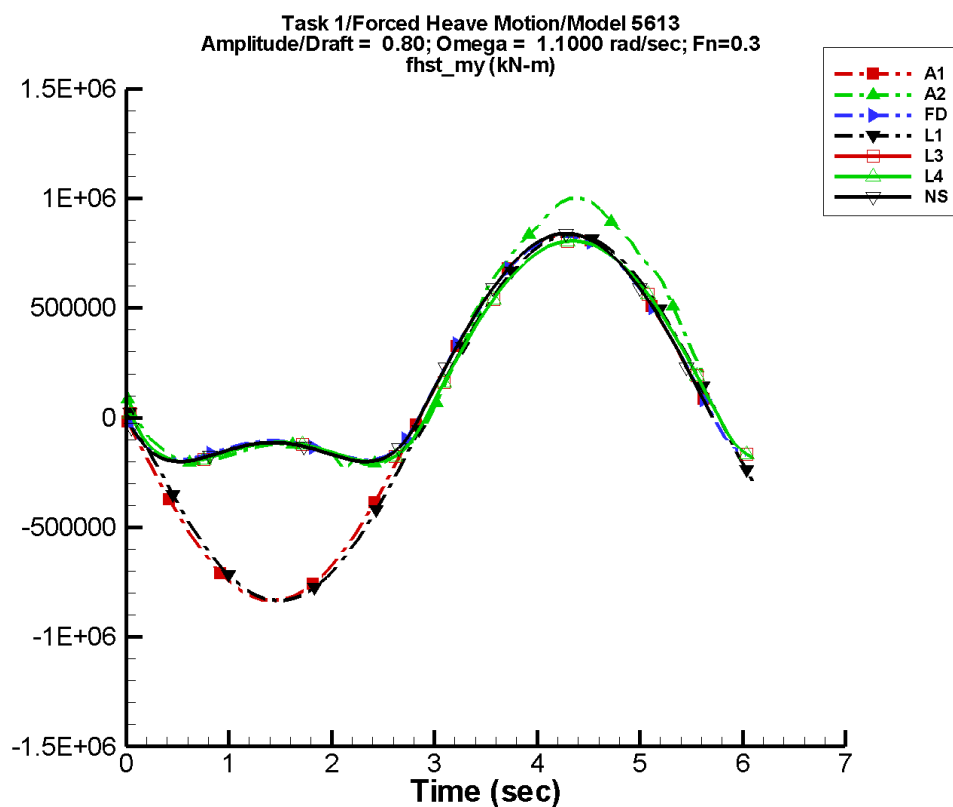
Table A–417. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.446	4.18E+05	180	0.688	170
A2	7.69E+04	3.53E+05	174	6.84E+04	-103
FD	5.78E+04	3.22E+05	-180	5.91E+04	-90
L1	0.902	4.17E+05	176	8.51E-02	-25
L3	5.03E+04	3.21E+05	176	5.84E+04	-98
L4	5.03E+04	3.21E+05	176	5.84E+04	-98
NF	—	—	—	—	—
NS	5.55E+04	3.22E+05	-180	5.46E+04	-90

Table A–418. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+05	4.17E+05	-4.08E+05	4.05E+05
A2	-2.04E+05	4.90E+05	-2.03E+05	4.70E+05
FD	-1.94E+05	4.18E+05	-1.93E+05	4.05E+05
L1	-4.17E+05	4.17E+05	-4.13E+05	4.13E+05
L3	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05
L4	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05
NF	—	—	—	—
NS	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05

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

Figure A-210. Time history of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

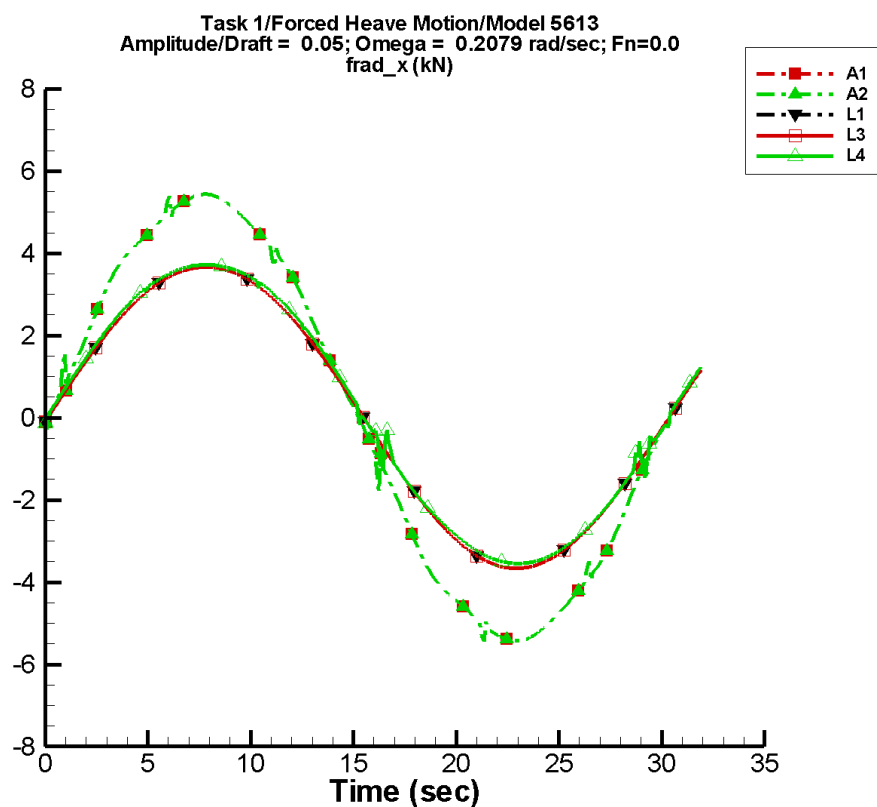
Table A–419. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.905	8.36E+05	180	1.37	170
A2	2.31E+05	5.92E+05	174	2.12E+05	-103
FD	1.91E+05	5.09E+05	-180	1.91E+05	-90
L1	1.86	8.35E+05	176	0.132	-11
L3	1.79E+05	5.02E+05	176	1.88E+05	-98
L4	1.79E+05	5.02E+05	176	1.88E+05	-98
NF	—	—	—	—	—
NS	1.92E+05	5.16E+05	-180	1.80E+05	-90

Table A–420. Minimum and maximum of M_y^{hst} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.36E+05	8.35E+05	-8.15E+05	8.09E+05
A2	-2.34E+05	1.00E+06	-1.94E+05	9.50E+05
FD	-1.94E+05	8.29E+05	-1.75E+05	8.03E+05
L1	-8.35E+05	8.35E+05	-8.25E+05	8.26E+05
L3	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05
L4	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05
NF	—	—	—	—
NS	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-211. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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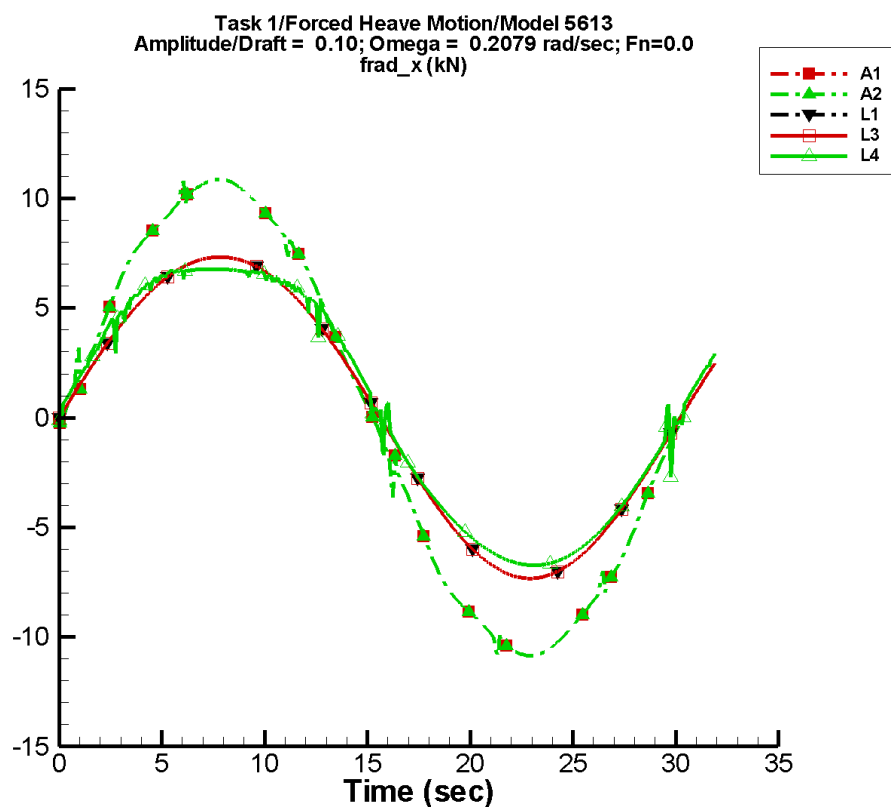
Table A-421. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.04E-03	5.37	-1	4.15E-03	158
A2	-1.04E-03	5.37	-1	4.15E-03	158
FD	—	—	—	—	—
L1	4.87E-02	3.66	-3	4.88E-02	87
L3	4.87E-02	3.66	-3	4.88E-02	87
L4	0.124	3.68	-3	2.99E-02	87
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-422. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.43	5.45	-5.42	5.43
A2	-5.43	5.45	-5.42	5.43
FD	—	—	—	—
L1	-3.66	3.66	-3.66	3.66
L3	-3.66	3.66	-3.66	3.66
L4	-3.54	3.72	-3.54	3.72
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–212. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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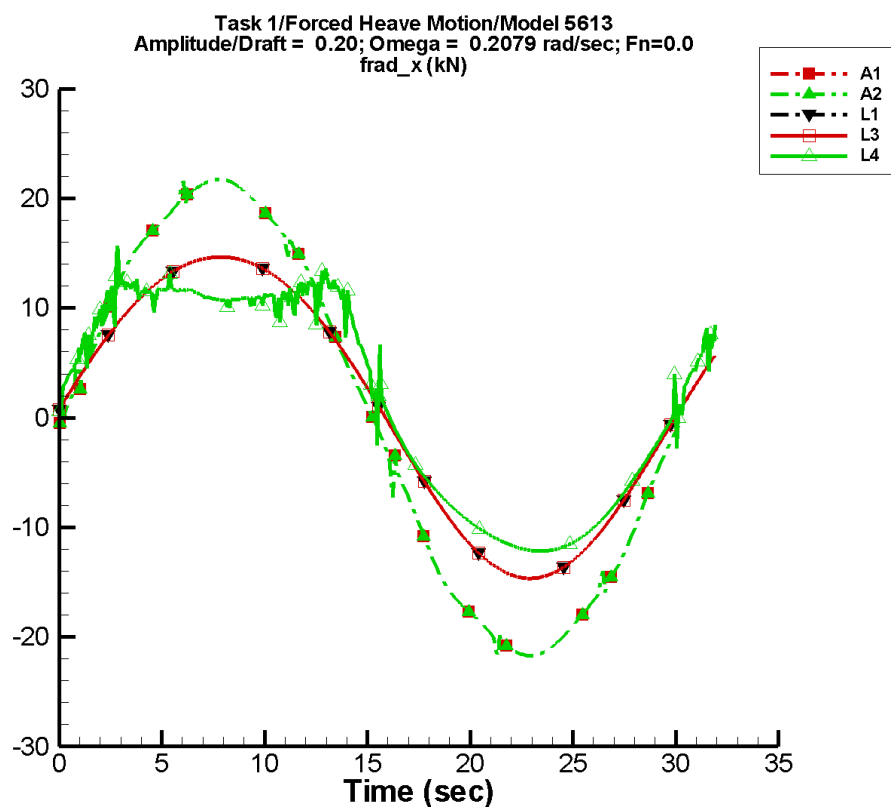
Table A-423. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.07E-03	10.7	-1	8.31E-03	158
A2	-2.07E-03	10.7	-1	8.31E-03	158
FD	—	—	—	—	—
L1	0.195	7.33	-3	0.195	87
L3	0.195	7.33	-3	0.195	87
L4	0.442	7.09	-3	0.378	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-424. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-10.9	10.9	-10.8	10.9
A2	-10.9	10.9	-10.8	10.9
FD	—	—	—	—
L1	-7.33	7.33	-7.33	7.33
L3	-7.33	7.33	-7.33	7.33
L4	-6.73	6.79	-6.72	6.78
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-213. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

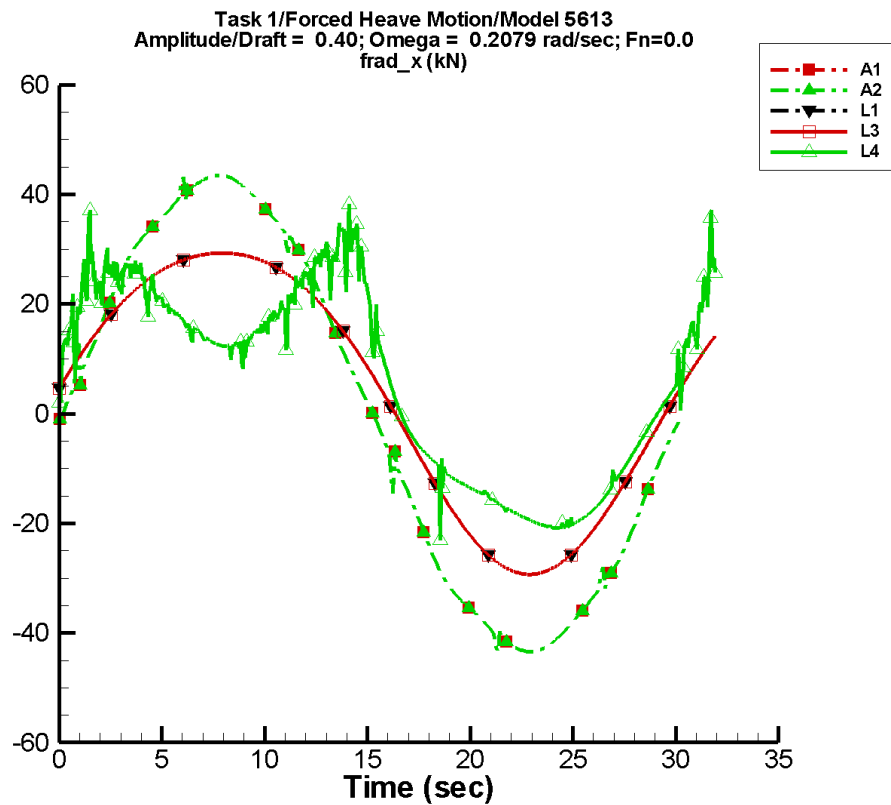
Table A-425. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.14E-03	21.5	-1	1.66E-02	158
A2	-4.14E-03	21.5	-1	1.66E-02	158
FD	—	—	—	—	—
L1	0.779	14.7	-3	0.780	87
L3	0.779	14.7	-3	0.780	87
L4	1.54	12.9	-3	2.44	76
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-426. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-21.7	21.8	-21.7	21.7
A2	-21.7	21.8	-21.7	21.7
FD	—	—	—	—
L1	-14.7	14.7	-14.6	14.7
L3	-14.7	14.7	-14.6	14.7
L4	-12.2	15.7	-12.2	12.9
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-214. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

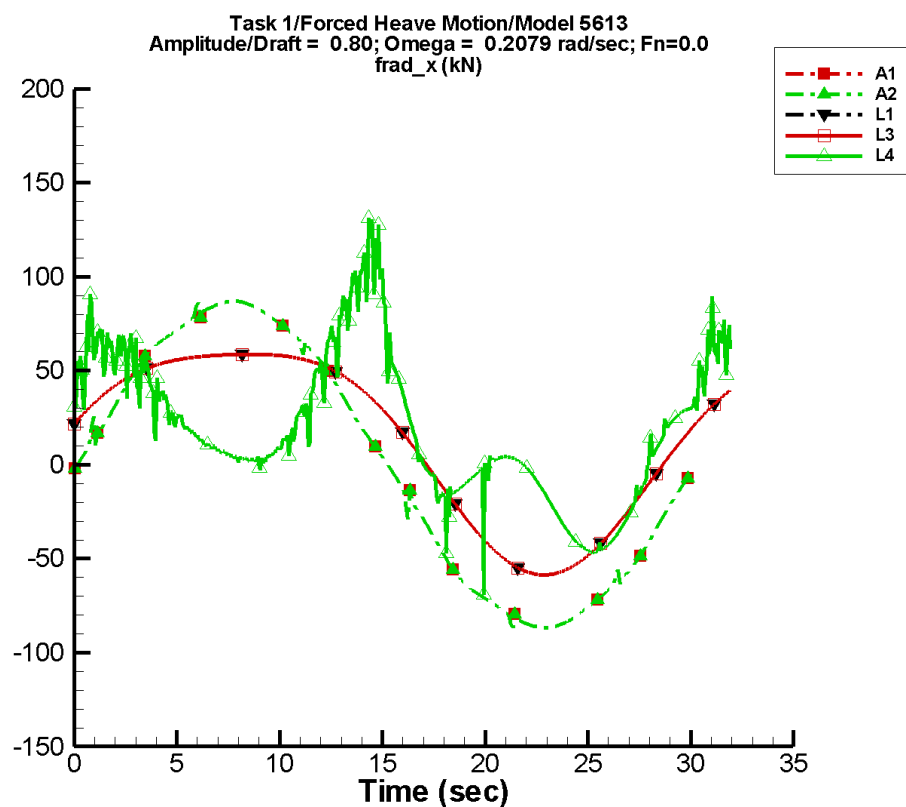
Table A–427. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.28E-03	43.0	-1	3.32E-02	158
A2	-8.28E-03	43.0	-1	3.32E-02	158
FD	—	—	—	—	—
L1	3.12	29.3	-3	3.12	87
L3	3.12	29.3	-3	3.12	87
L4	5.53	21.1	-5	10.4	77
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–428. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-43.5	43.6	-43.4	43.4
A2	-43.5	43.6	-43.4	43.4
FD	—	—	—	—
L1	-29.3	29.3	-29.3	29.3
L3	-29.3	29.3	-29.3	29.3
L4	-23.0	38.3	-20.8	32.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-215. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

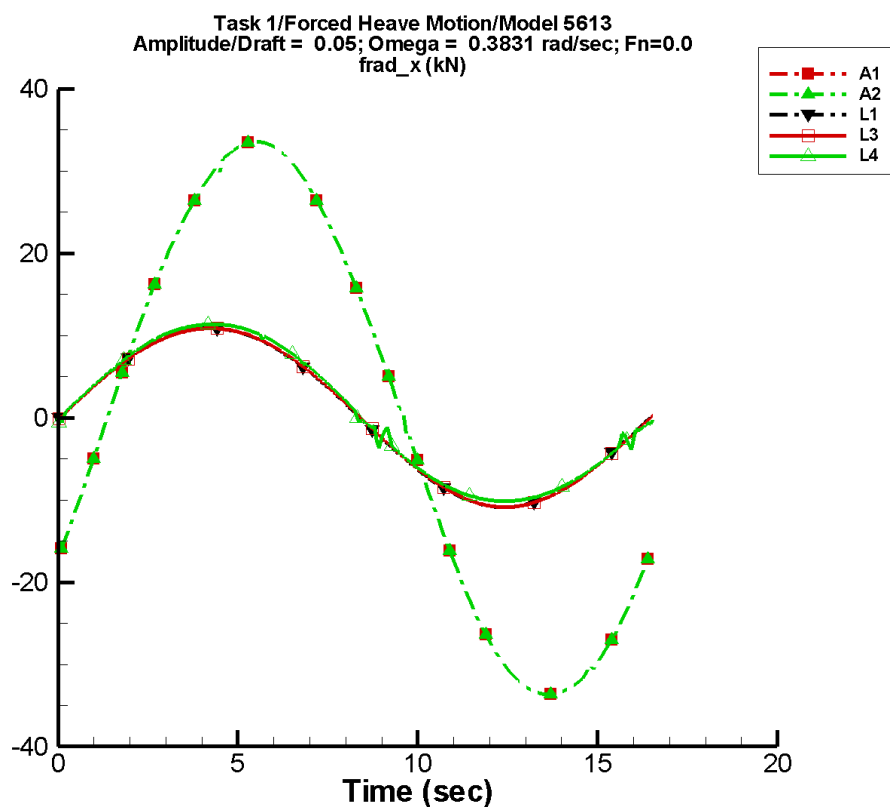
Table A–429. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.66E-02	85.9	-1	6.65E-02	158
A2	-1.66E-02	85.9	-1	6.65E-02	158
FD	—	—	—	—	—
L1	12.5	58.6	-3	12.5	87
L3	12.5	58.6	-3	12.5	87
L4	17.7	26.8	-16	36.0	76
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–430. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-86.9	87.3	-86.7	86.8
A2	-86.9	87.3	-86.7	86.8
FD	—	—	—	—
L1	-58.6	58.8	-58.6	58.8
L3	-58.6	58.8	-58.6	58.8
L4	-69.0	131.	-46.2	115.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-216. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

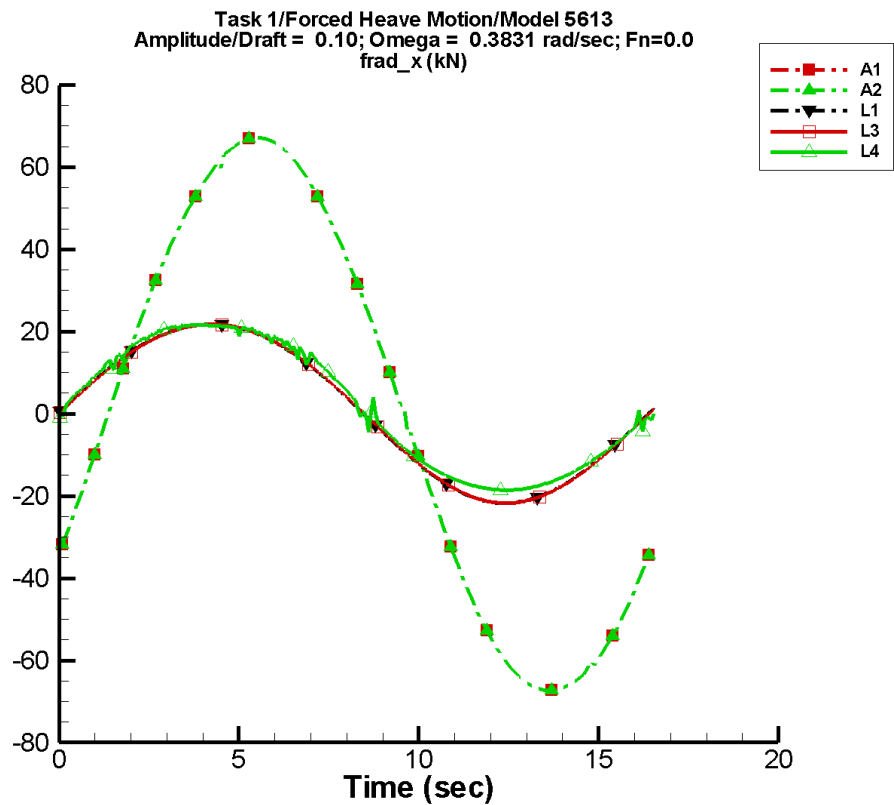
Table A–431. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.68E-02	33.6	-30	0.148	27
A2	-8.68E-02	33.6	-30	0.148	27
FD	—	—	—	—	—
L1	0.148	10.9	-2	0.148	89
L3	0.148	10.9	-3	0.148	87
L4	0.520	10.9	-4	0.140	-129
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–432. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-33.6	33.6	-33.5	33.4
A2	-33.6	33.6	-33.5	33.4
FD	—	—	—	—
L1	-10.9	10.9	-10.9	10.9
L3	-10.9	10.9	-10.9	10.9
L4	-10.1	11.4	-10.1	11.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-217. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

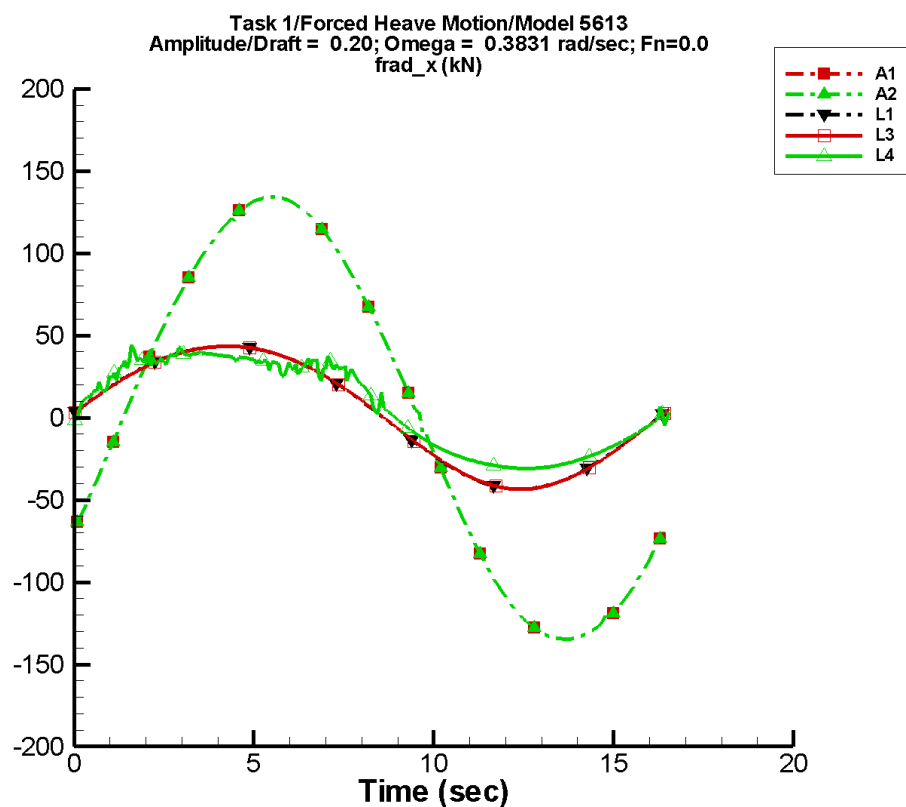
Table A-433. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.174	67.3	-30	0.295	27
A2	-0.174	67.3	-30	0.295	27
FD	—	—	—	—	—
L1	0.592	21.7	-2	0.592	89
L3	0.592	21.7	-3	0.592	87
L4	1.85	20.8	-3	0.245	88
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-434. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-67.3	67.1	-67.1	66.9
A2	-67.3	67.1	-67.1	66.9
FD	—	—	—	—
L1	-21.8	21.7	-21.7	21.7
L3	-21.8	21.7	-21.7	21.7
L4	-18.6	21.5	-18.6	21.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-218. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

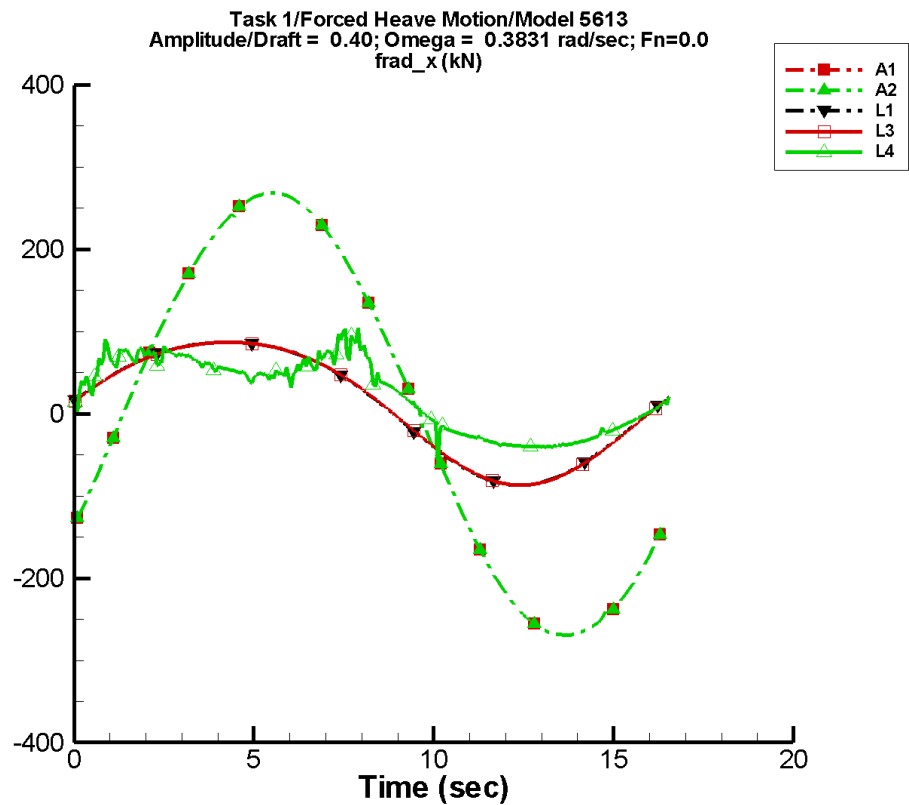
Table A-435. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.347	135.	-30	0.590	27
A2	-0.347	135.	-30	0.590	27
FD	—	—	—	—	—
L1	2.37	43.5	-2	2.37	89
L3	2.37	43.5	-3	2.37	87
L4	6.62	36.7	-4	4.01	66
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-436. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-135.	134.	-134.	134.
A2	-135.	134.	-134.	134.
FD	—	—	—	—
L1	-43.5	43.5	-43.4	43.4
L3	-43.5	43.5	-43.4	43.4
L4	-30.9	45.8	-30.8	39.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-219. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

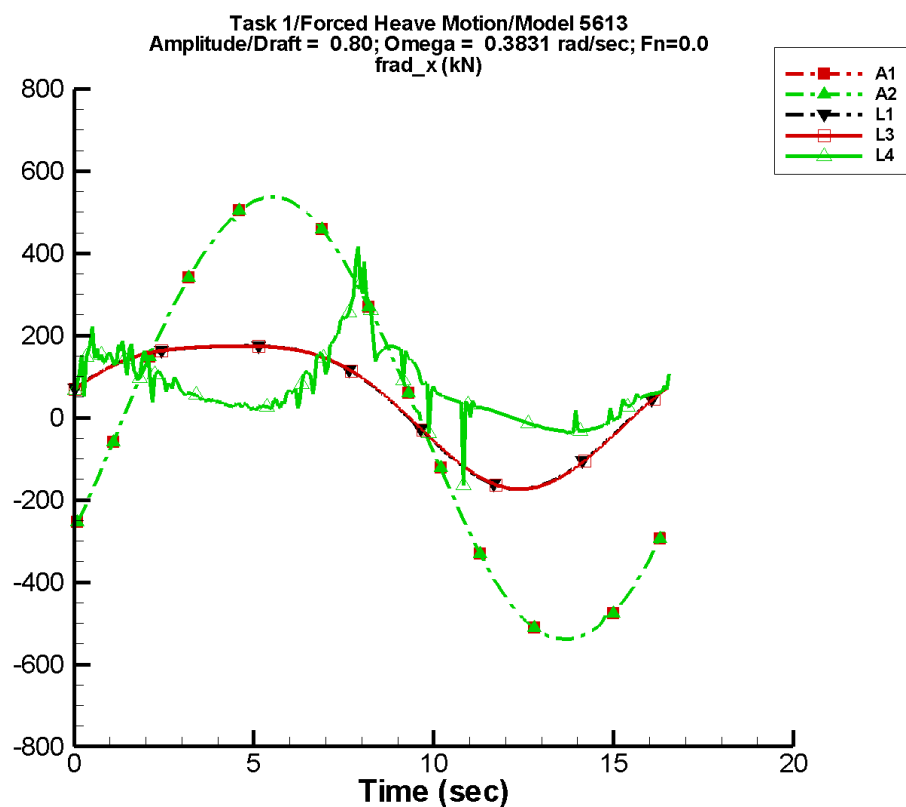
Table A-437. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.695	269.	-30	1.18	27
A2	-0.695	269.	-30	1.18	27
FD	—	—	—	—	—
L1	9.47	87.0	-2	9.48	89
L3	9.47	87.0	-3	9.48	87
L4	23.9	55.2	-8	20.8	68
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-438. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-269.	269.	-268.	268.
A2	-269.	269.	-268.	268.
FD	—	—	—	—
L1	-87.0	87.0	-86.8	86.9
L3	-87.0	87.0	-86.8	86.9
L4	-62.4	106.	-40.3	88.0
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-220. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

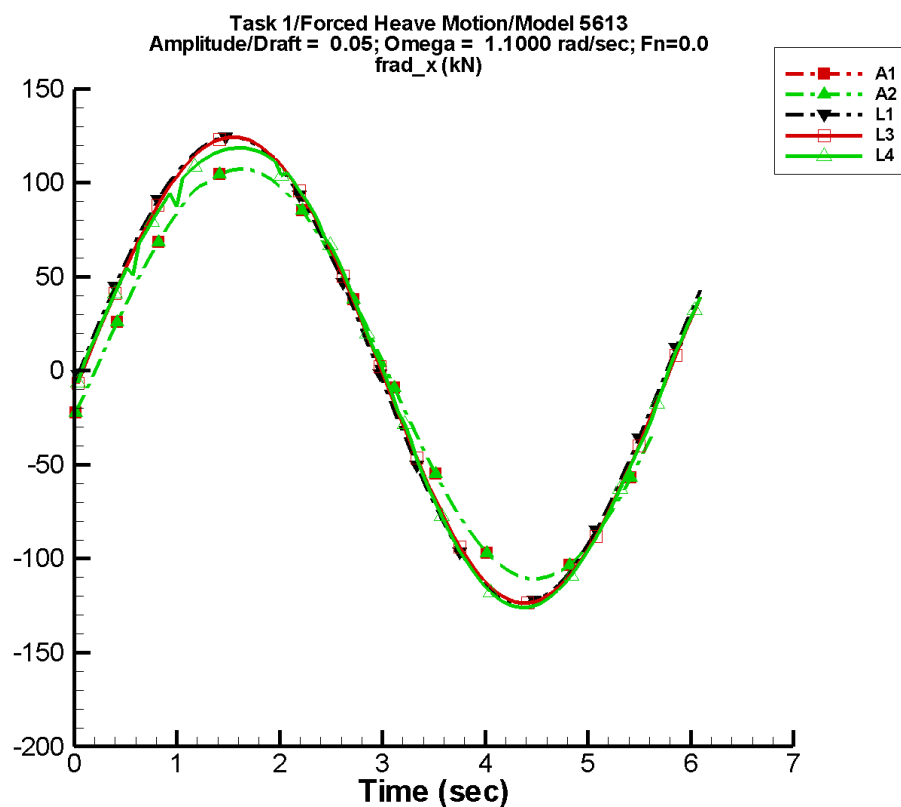
Table A–439. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.39	538.	-30	2.36	27
A2	-1.39	538.	-30	2.36	27
FD	—	—	—	—	—
L1	37.9	174.	-2	37.9	89
L3	37.9	174.	-3	37.9	87
L4	75.5	51.4	-43	85.8	73
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–440. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-538.	537.	-537.	535.
A2	-538.	537.	-537.	535.
FD	—	—	—	—
L1	-174.	175.	-174.	175.
L3	-174.	174.	-174.	174.
L4	-170.	435.	-32.5	341.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-221. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

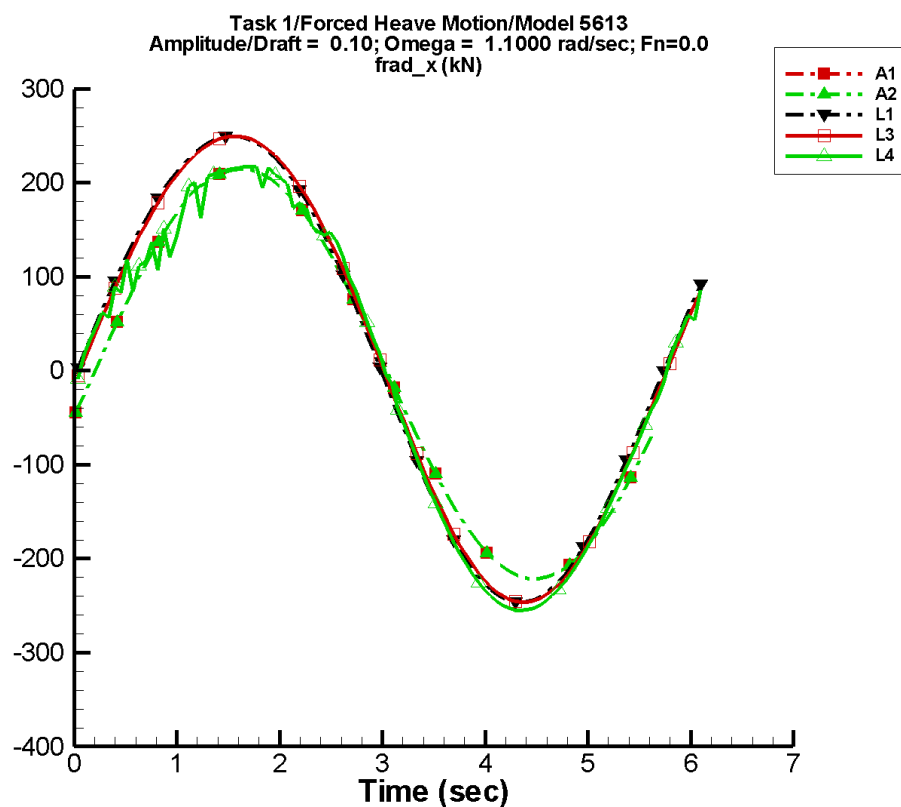
Table A-441. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.14	109.	-12	0.601	37
A2	-1.14	109.	-12	0.601	37
FD	—	—	—	—	—
L1	2.00	124.	-5	1.88	110
L3	2.00	124.	-7	1.83	104
L4	0.295	123.	-7	4.99	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-442. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-111.	107.	-107.	104.
A2	-111.	107.	-107.	104.
FD	—	—	—	—
L1	-124.	124.	-122.	123.
L3	-124.	124.	-122.	123.
L4	-126.	119.	-125.	118.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-222. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

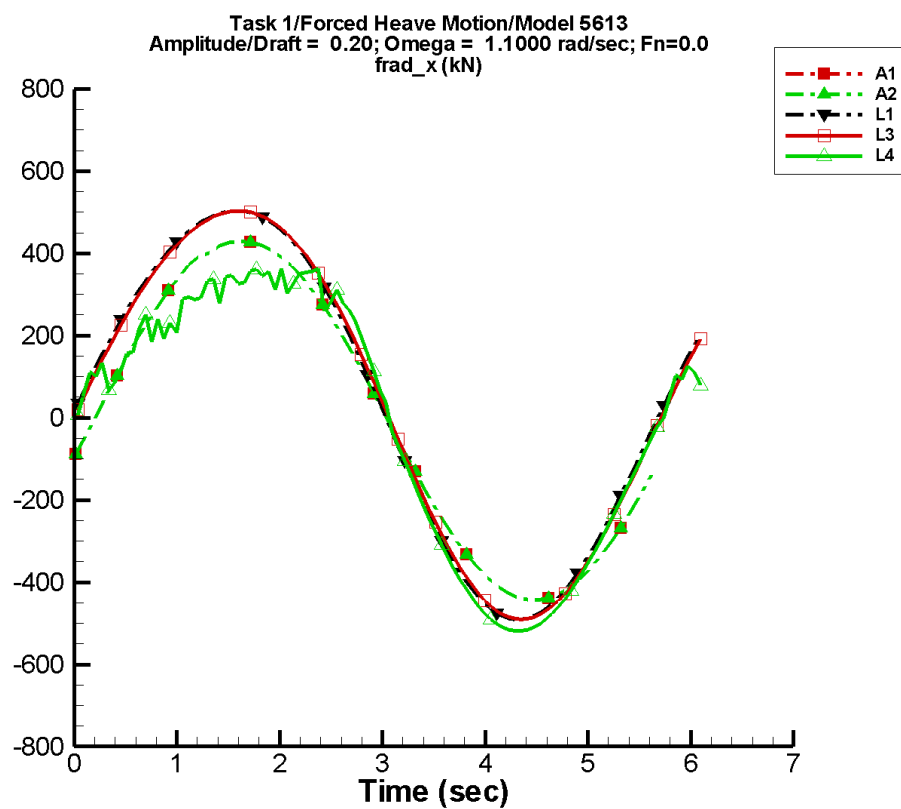
Table A-443. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.28	219.	-12	1.20	37
A2	-2.28	219.	-12	1.20	37
FD	—	—	—	—	—
L1	8.00	248.	-5	7.56	110
L3	8.00	248.	-7	7.34	104
L4	-4.94	233.	-8	24.5	111
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-444. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-222.	215.	-215.	208.
A2	-222.	215.	-215.	208.
FD	—	—	—	—
L1	-247.	250.	-244.	247.
L3	-246.	250.	-243.	247.
L4	-255.	217.	-252.	214.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-223. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

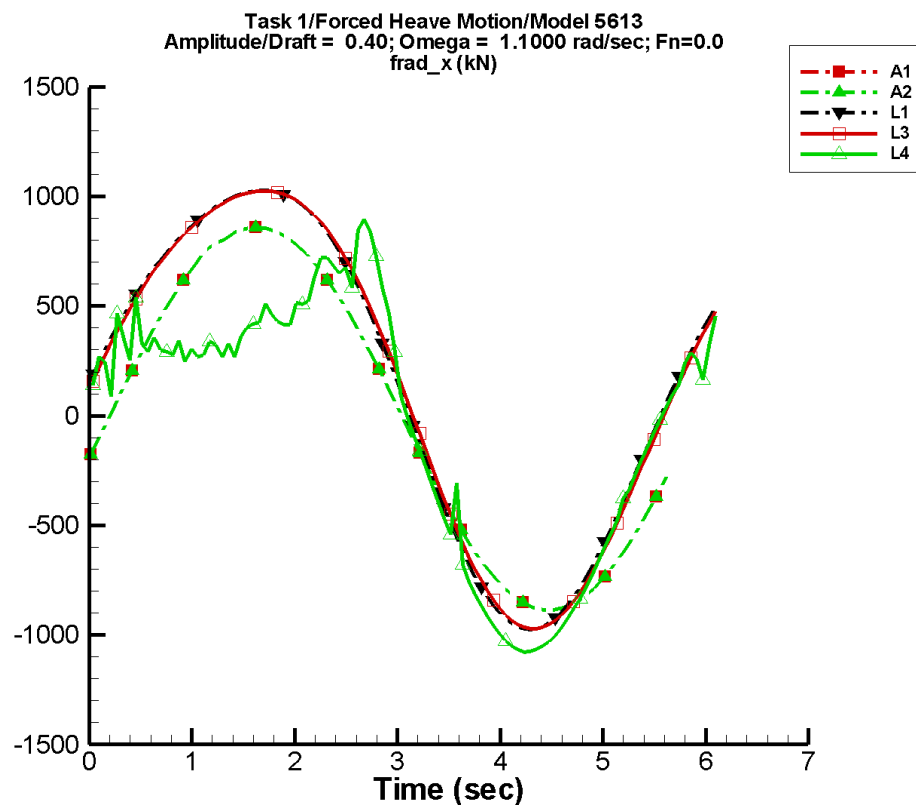
Table A-445. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.56	438.	-12	2.40	37
A2	-4.56	438.	-12	2.40	37
FD	—	—	—	—	—
L1	32.0	496.	-5	30.3	110
L3	32.0	496.	-7	29.4	104
L4	-20.0	430.	-10	92.4	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-446. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-443.	429.	-430.	416.
A2	-443.	429.	-430.	416.
FD	—	—	—	—
L1	-491.	503.	-484.	499.
L3	-491.	503.	-484.	498.
L4	-519.	384.	-511.	341.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-224. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

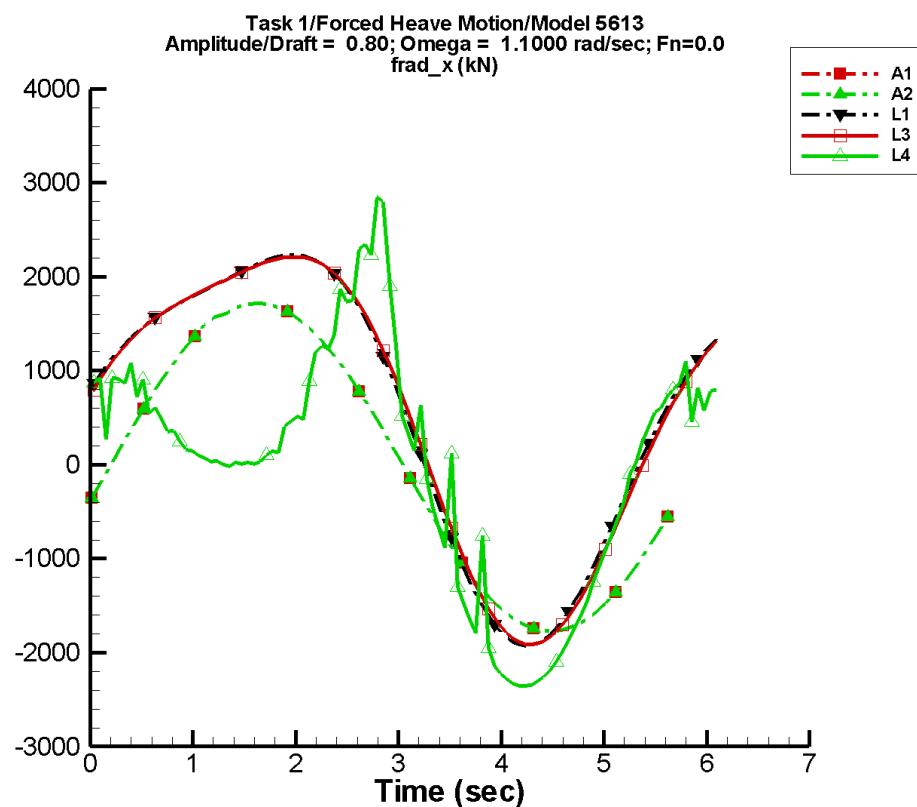
Table A–447. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.13	875.	-12	4.81	37
A2	-9.13	875.	-12	4.81	37
FD	—	—	—	—	—
L1	128.	992.	-5	121.	110
L3	128.	992.	-7	118.	104
L4	-39.6	749.	-12	372.	99
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–448. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-886.	859.	-859.	832.
A2	-886.	859.	-859.	832.
FD	—	—	—	—
L1	-974.	1.03E+03	-959.	1.02E+03
L3	-972.	1.03E+03	-956.	1.02E+03
L4	-1.08E+03	1.04E+03	-1.06E+03	746.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A–225. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

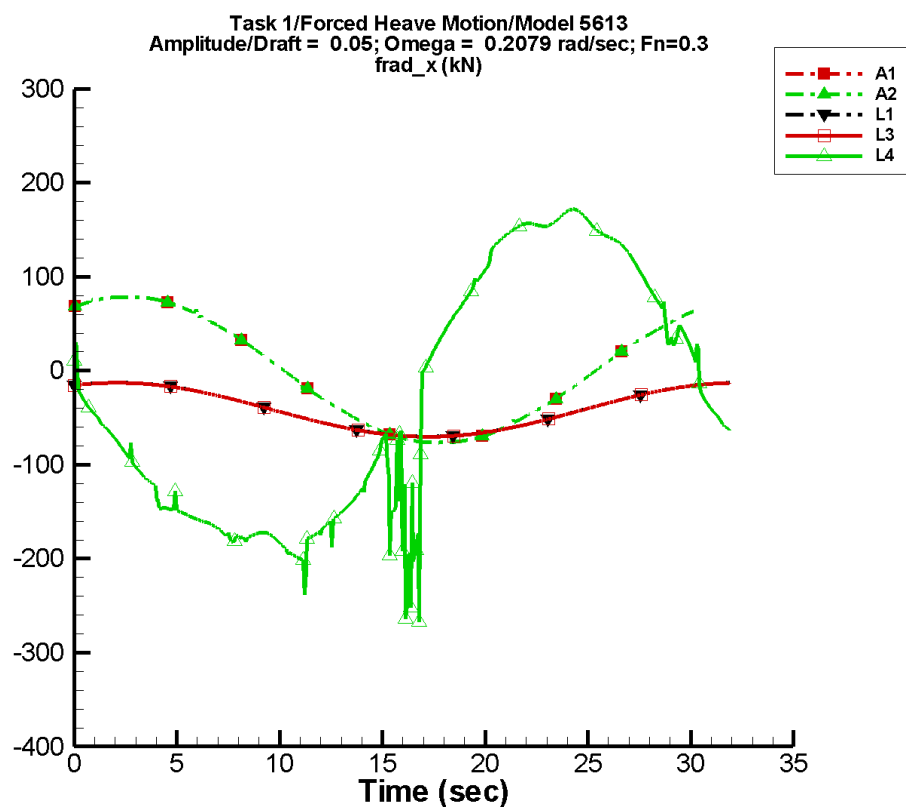
Table A–449. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-18.3	1.75E+03	-12	9.62	37
A2	-18.3	1.75E+03	-12	9.62	37
FD	—	—	—	—	—
L1	512.	1.98E+03	-5	486.	110
L3	512.	1.98E+03	-7	472.	104
L4	-23.7	1.23E+03	-18	1.30E+03	95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–450. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03
A2	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03
FD	—	—	—	—
L1	-1.92E+03	2.23E+03	-1.88E+03	2.21E+03
L3	-1.91E+03	2.21E+03	-1.87E+03	2.20E+03
L4	-2.36E+03	3.05E+03	-2.30E+03	2.35E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-226. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

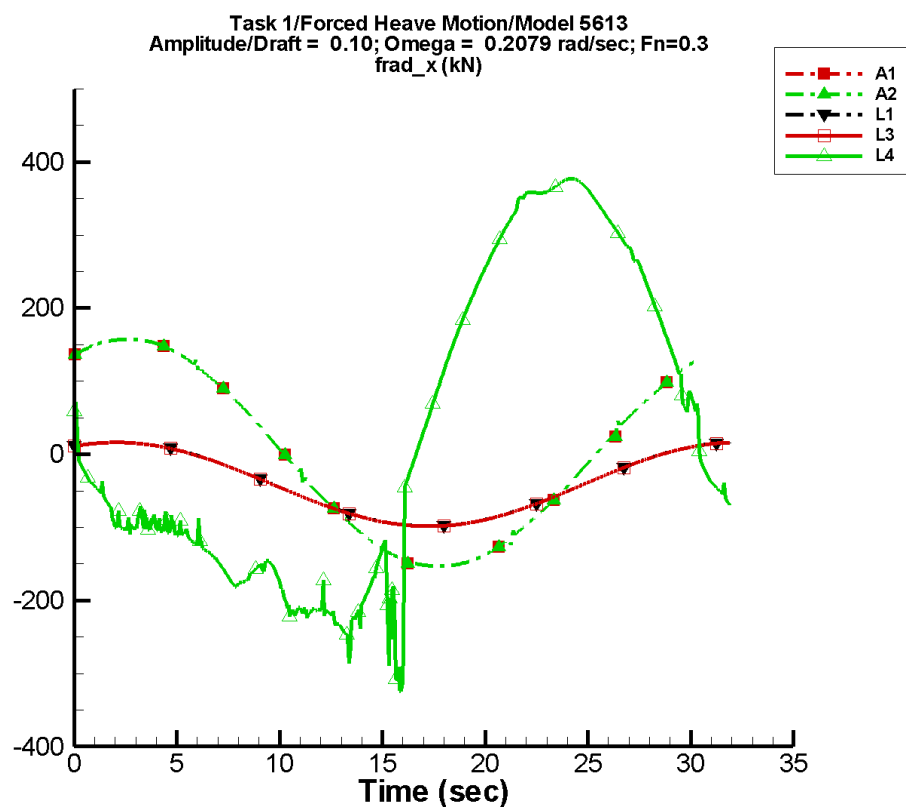
Table A–451. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.208	76.7	58	0.469	-24
A2	-0.208	76.7	58	0.469	-24
FD	—	—	—	—	—
L1	-41.5	28.7	65	7.90E-02	96
L3	-41.5	28.7	65	7.92E-02	96
L4	-30.4	180.	163	29.8	-103
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–452. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-76.4	78.6	-76.4	78.5
A2	-76.4	78.6	-76.4	78.5
FD	—	—	—	—
L1	-70.1	-12.7	-70.1	-12.8
L3	-70.2	-12.8	-70.2	-12.8
L4	-267.	172.	-206.	171.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-227. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

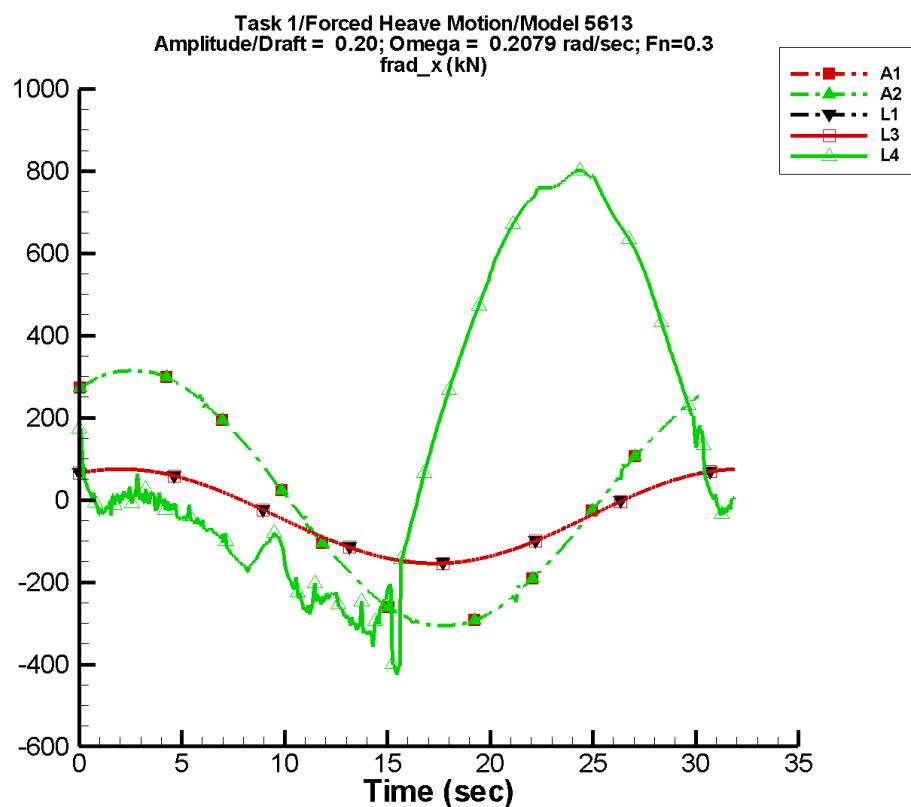
Table A-453. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.416	153.	58	0.939	-24
A2	-0.416	153.	58	0.939	-24
FD	—	—	—	—	—
L1	-41.2	57.4	65	0.318	96
L3	-41.3	57.4	65	0.318	96
L4	31.5	284.	161	91.6	-95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-454. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-153.	157.	-153.	157.
A2	-153.	157.	-153.	157.
FD	—	—	—	—
L1	-98.4	16.3	-98.4	16.3
L3	-98.5	16.2	-98.5	16.2
L4	-324.	377.	-282.	377.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-228. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

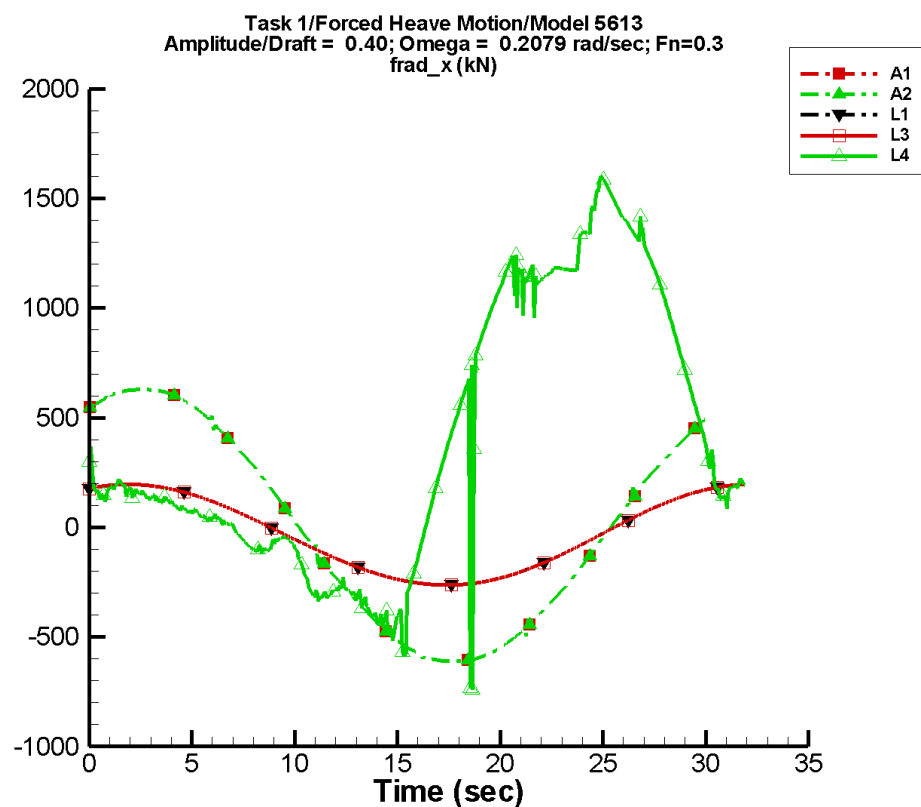
Table A–455. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.833	307.	58	1.88	-24
A2	-0.833	307.	58	1.88	-24
FD	—	—	—	—	—
L1	-40.3	115.	65	1.27	96
L3	-40.3	115.	65	1.27	96
L4	173.	480.	159	192.	-95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–456. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-306.	314.	-305.	314.
A2	-306.	314.	-305.	314.
FD	—	—	—	—
L1	-154.	75.2	-154.	75.1
L3	-154.	75.1	-154.	75.1
L4	-426.	801.	-364.	800.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-229. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

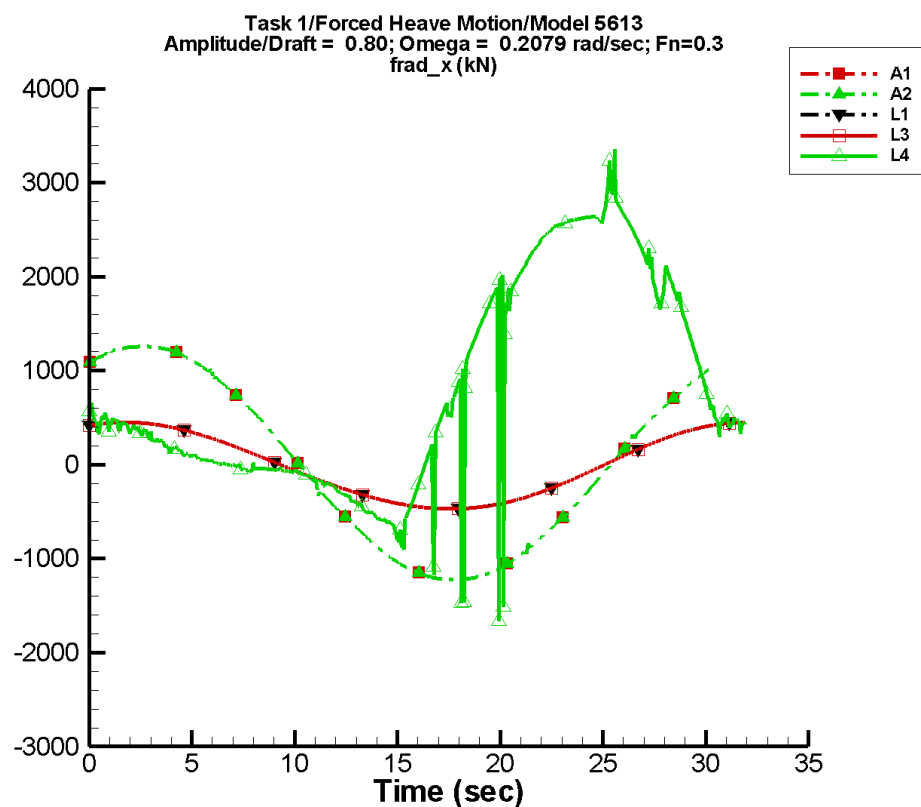
Table A–457. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.67	614.	58	3.76	-24
A2	-1.67	614.	58	3.76	-24
FD	—	—	—	—	—
L1	-36.4	229.	65	5.08	96
L3	-36.5	229.	65	5.08	96
L4	401.	790.	155	309.	-103
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–458. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-611.	629.	-611.	628.
A2	-611.	629.	-611.	628.
FD	—	—	—	—
L1	-263.	196.	-263.	196.
L3	-263.	196.	-263.	196.
L4	-740.	1.60E+03	-469.	1.58E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-230. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

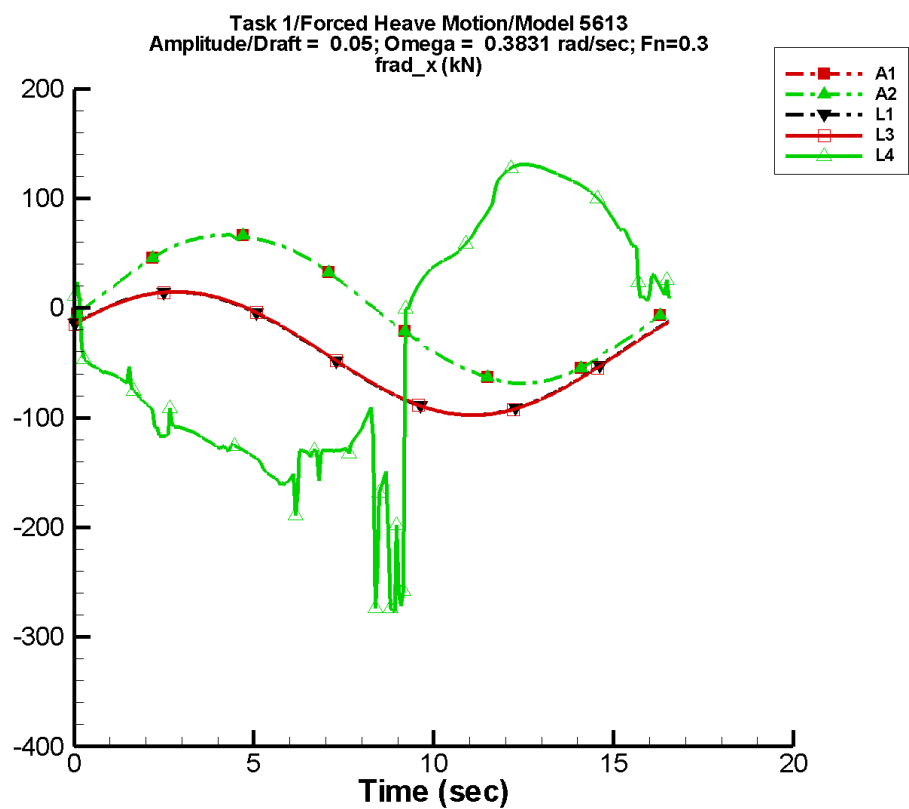
Table A–459. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.33	1.23E+03	58	7.51	-24
A2	-3.33	1.23E+03	58	7.51	-24
FD	—	—	—	—	—
L1	-21.0	459.	65	20.3	96
L3	-21.1	459.	65	20.3	96
L4	804.	1.42E+03	153	583.	-116
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–460. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03
A2	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03
FD	—	—	—	—
L1	-470.	450.	-470.	450.
L3	-470.	450.	-470.	450.
L4	-1.67E+03	3.36E+03	-772.	2.98E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-231. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

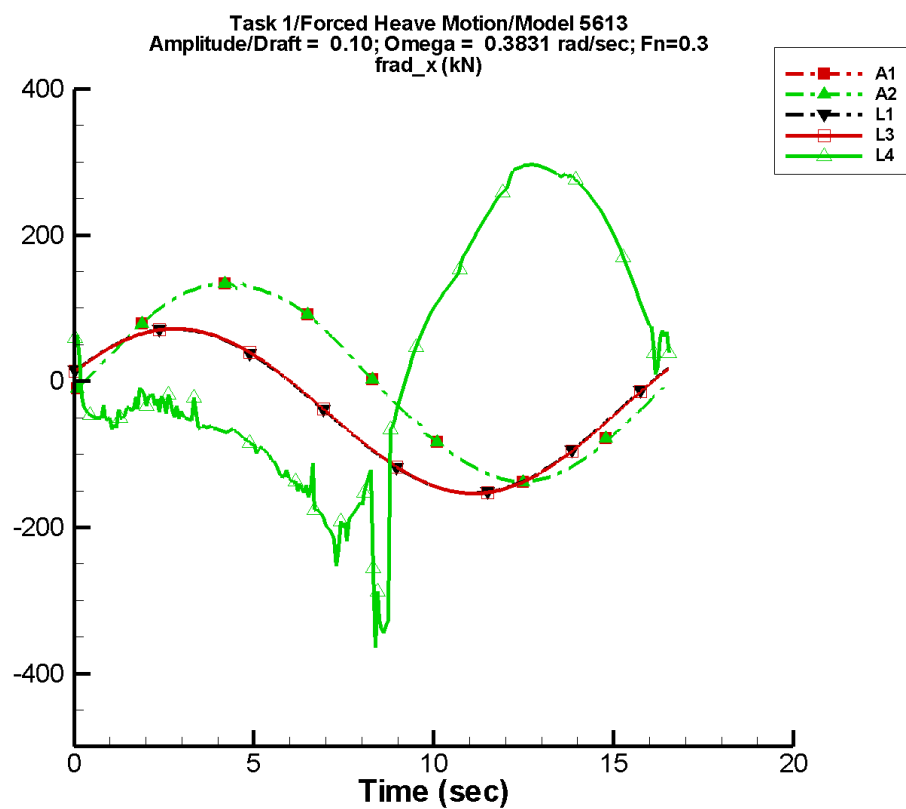
Table A-461. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.80E-02	67.9	-3	2.57E-02	29
A2	4.80E-02	67.9	-3	2.57E-02	29
FD	—	—	—	—	—
L1	-41.2	56.2	28	0.310	87
L3	-41.3	56.3	27	0.310	85
L4	-33.6	140.	155	40.1	-105
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-462. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-68.9	70.4	-68.6	70.5
A2	-68.9	70.4	-68.6	70.5
FD	—	—	—	—
L1	-97.6	14.8	-97.5	14.7
L3	-97.7	14.9	-97.7	14.8
L4	-283.	132.	-243.	131.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-232. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

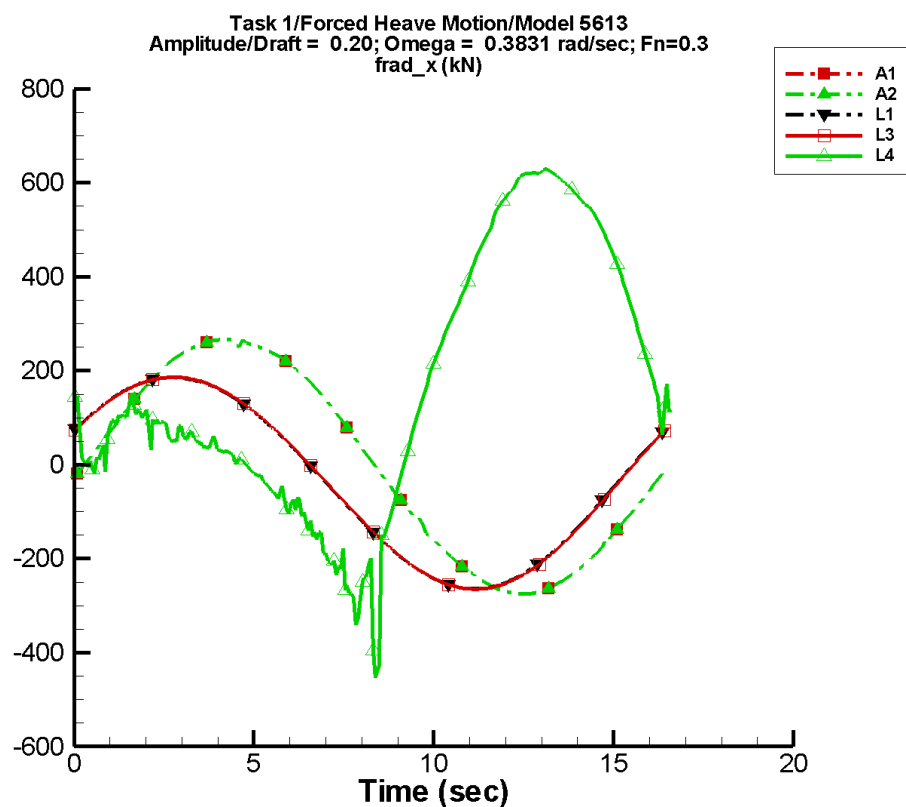
Table A-463. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.60E-02	136.	-3	5.14E-02	29
A2	9.60E-02	136.	-3	5.14E-02	29
FD	—	—	—	—	—
L1	-40.3	112.	28	1.24	87
L3	-40.3	113.	27	1.24	86
L4	27.5	203.	153	97.1	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-464. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-138.	141.	-137.	141.
A2	-138.	141.	-137.	141.
FD	—	—	—	—
L1	-153.	71.4	-153.	71.2
L3	-154.	71.6	-153.	71.5
L4	-364.	297.	-295.	296.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-233. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

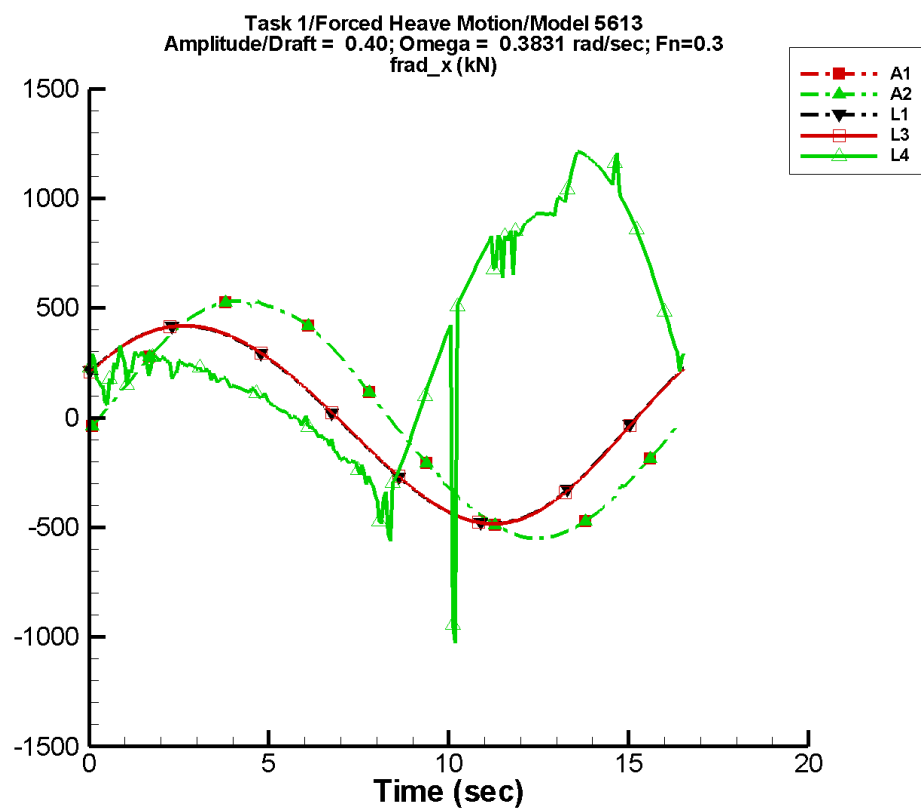
Table A-465. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.192	272.	-3	0.103	29
A2	0.192	272.	-3	0.103	29
FD	—	—	—	—	—
L1	-36.6	225.	28	4.96	87
L3	-36.7	225.	27	4.96	86
L4	159.	330.	149	185.	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-466. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-275.	282.	-274.	282.
A2	-275.	282.	-274.	282.
FD	—	—	—	—
L1	-264.	186.	-264.	185.
L3	-265.	186.	-264.	186.
L4	-453.	630.	-332.	624.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-234. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

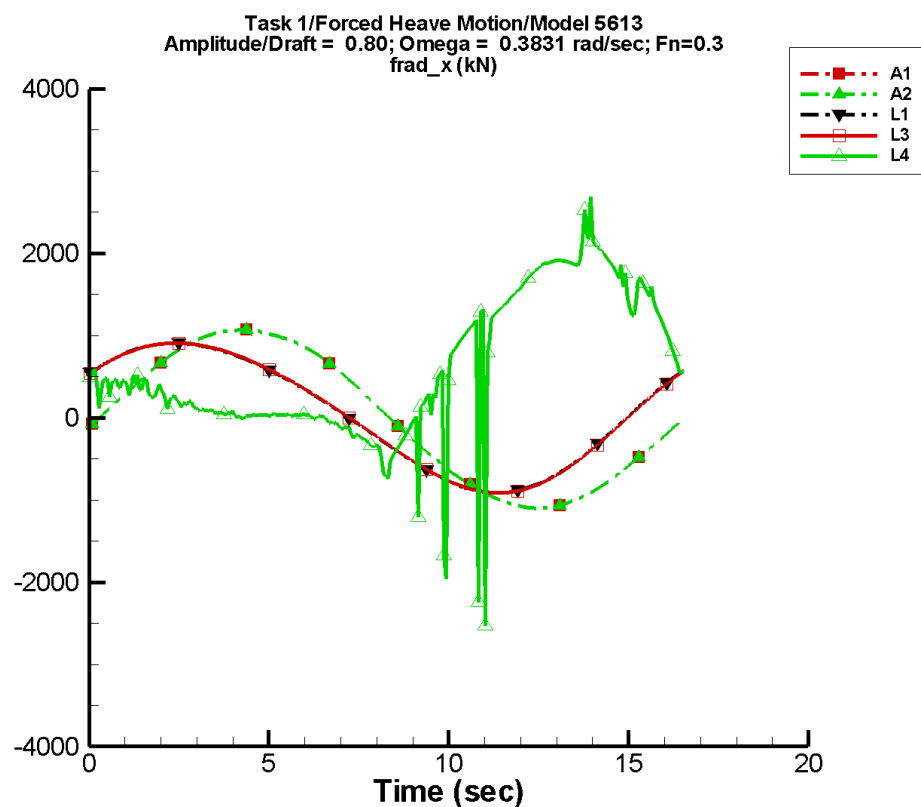
Table A-467. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.384	544.	-3	0.206	29
A2	0.384	544.	-3	0.206	29
FD	—	—	—	—	—
L1	-21.9	449.	28	19.8	87
L3	-22.0	450.	27	19.8	86
L4	342.	525.	142	270.	-109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-468. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-551.	563.	-548.	564.
A2	-551.	563.	-548.	564.
FD	—	—	—	—
L1	-483.	418.	-482.	418.
L3	-484.	419.	-483.	419.
L4	-1.03E+03	1.21E+03	-439.	1.20E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-235. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

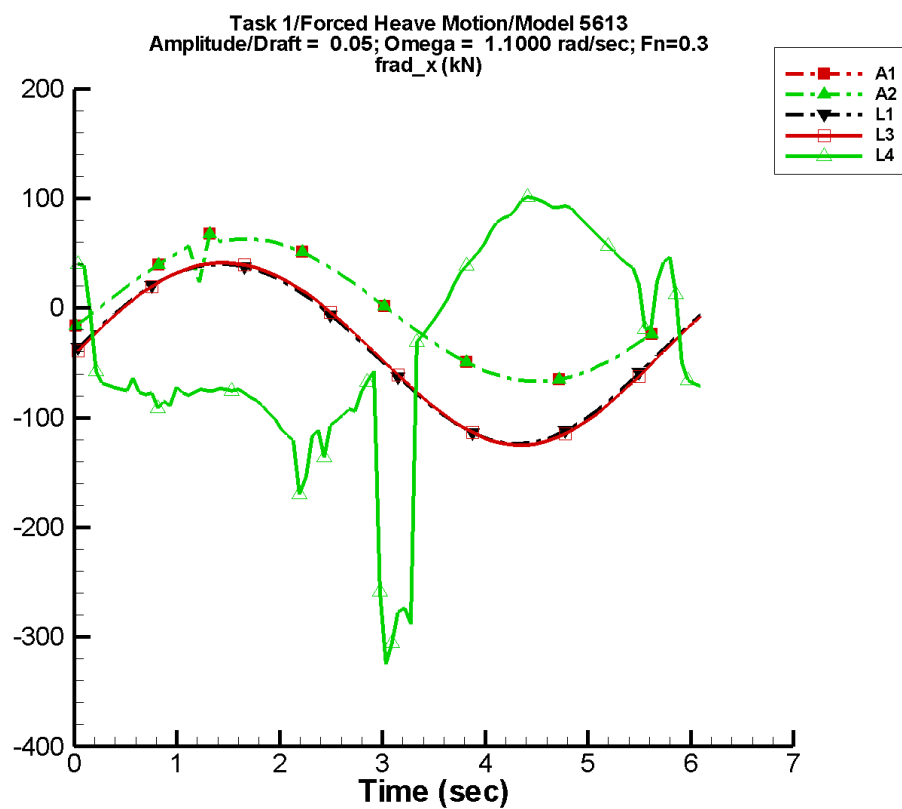
Table A–469. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.768	1.09E+03	-3	0.411	29
A2	0.768	1.09E+03	-3	0.411	29
FD	—	—	—	—	—
L1	36.9	899.	28	79.4	87
L3	36.9	901.	27	79.4	86
L4	587.	977.	143	462.	-135
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–470. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03
A2	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03
FD	—	—	—	—
L1	-912.	905.	-911.	904.
L3	-914.	908.	-913.	907.
L4	-2.53E+03	2.68E+03	-589.	2.24E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-236. Time history of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

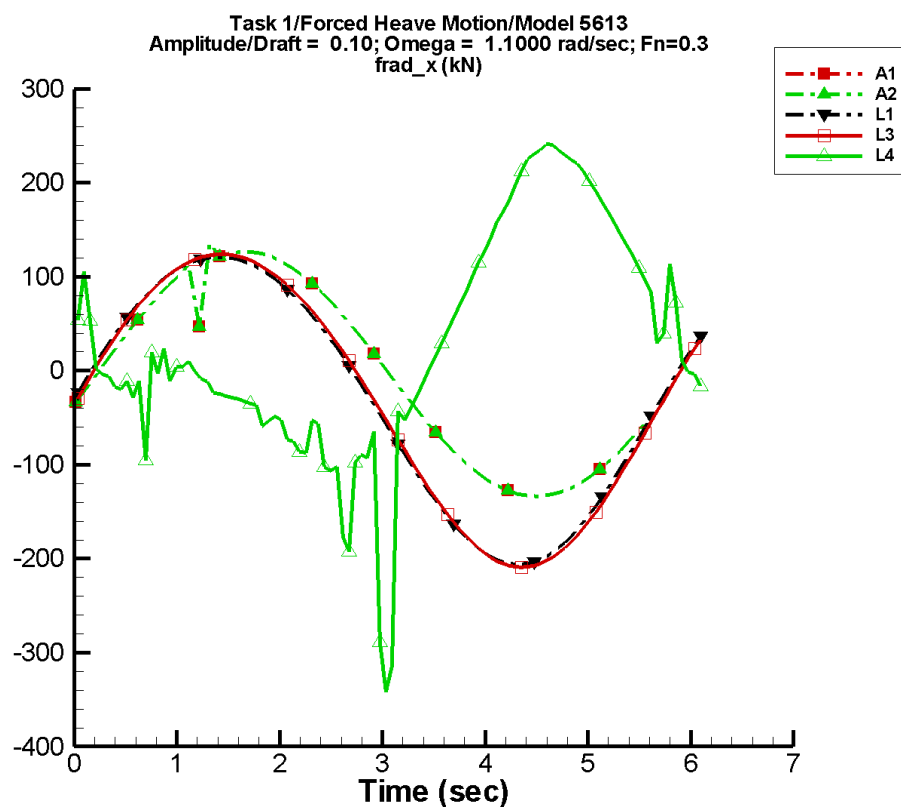
Table A–471. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.92	64.7	-14	0.673	78
A2	-1.92	64.7	-14	0.673	78
FD	—	—	—	—	—
L1	-40.0	81.8	-1	1.98	68
L3	-39.9	83.2	-3	2.02	62
L4	-34.7	103.	143	47.4	-124
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–472. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-66.8	67.9	-64.8	60.3
A2	-66.8	67.9	-64.8	60.3
FD	—	—	—	—
L1	-124.	40.0	-123.	39.2
L3	-125.	41.4	-124.	40.6
L4	-324.	102.	-220.	96.2
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-237. Time history of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

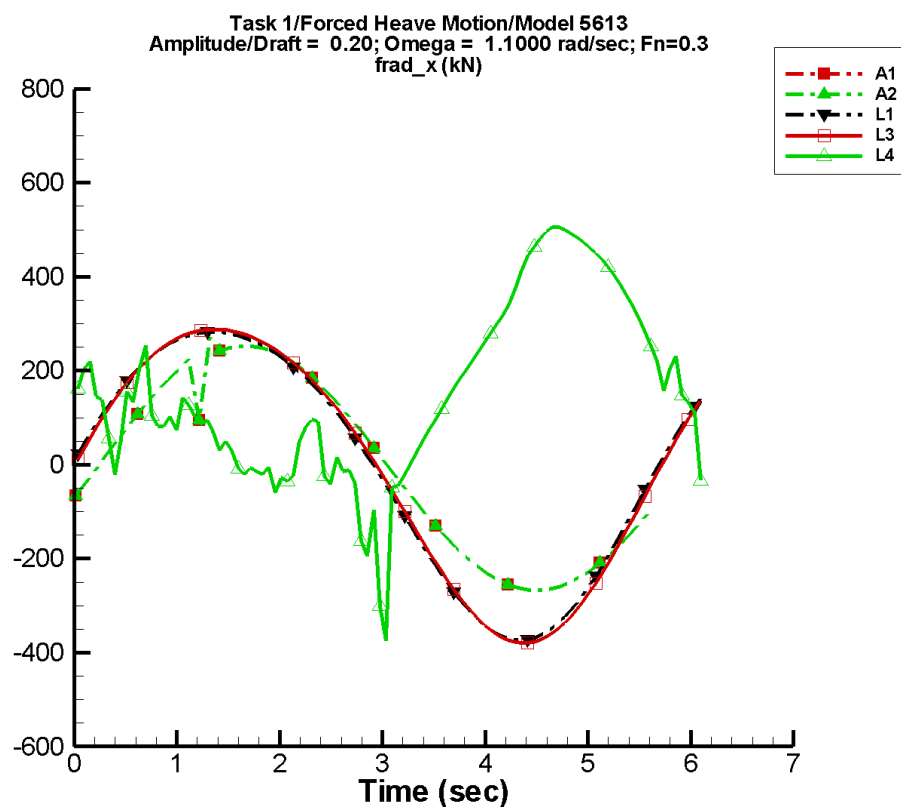
Table A–473. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.83	129.	-14	1.35	78
A2	-3.83	129.	-14	1.35	78
FD	—	—	—	—	—
L1	-35.2	164.	-1	7.90	68
L3	-35.2	166.	-3	8.09	62
L4	29.6	143.	139	75.3	-120
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–474. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-134.	136.	-130.	121.
A2	-134.	136.	-130.	121.
FD	—	—	—	—
L1	-206.	121.	-204.	120.
L3	-209.	124.	-207.	122.
L4	-341.	241.	-170.	232.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-238. Time history of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

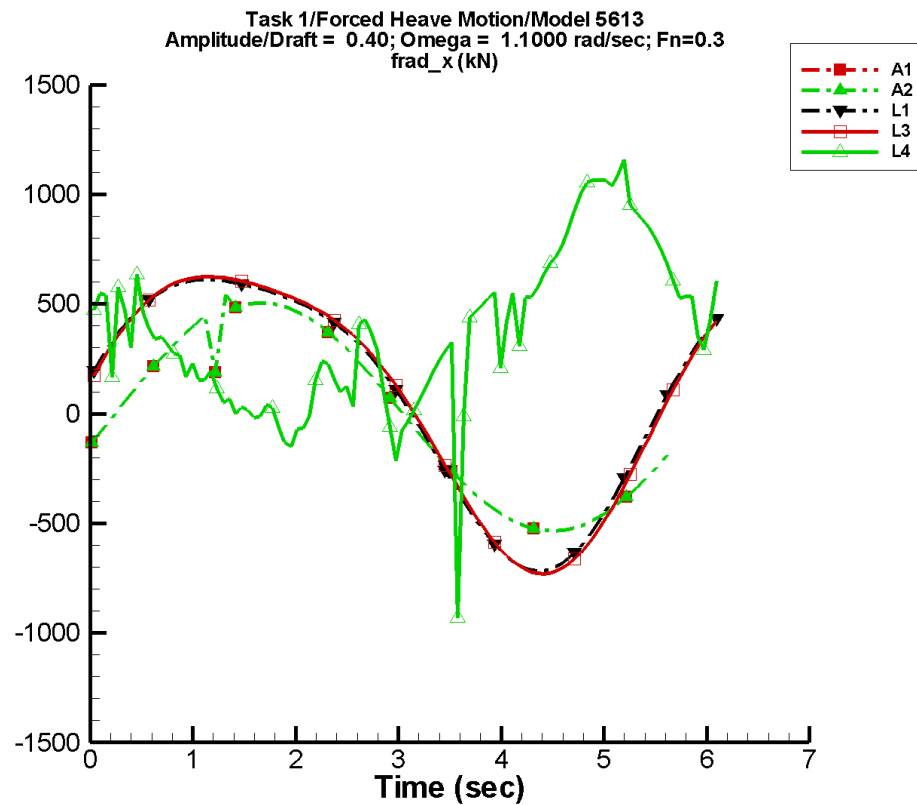
Table A-475. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-7.67	259.	-14	2.69	78
A2	-7.67	259.	-14	2.69	78
FD	—	—	—	—	—
L1	-16.3	327.	-1	31.6	68
L3	-16.3	333.	-3	32.4	62
L4	154.	229.	135	104.	-132
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A-476. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-267.	272.	-259.	241.
A2	-267.	272.	-259.	241.
FD	—	—	—	—
L1	-374.	282.	-369.	280.
L3	-380.	288.	-375.	286.
L4	-374.	505.	-154.	492.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-239. Time history of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

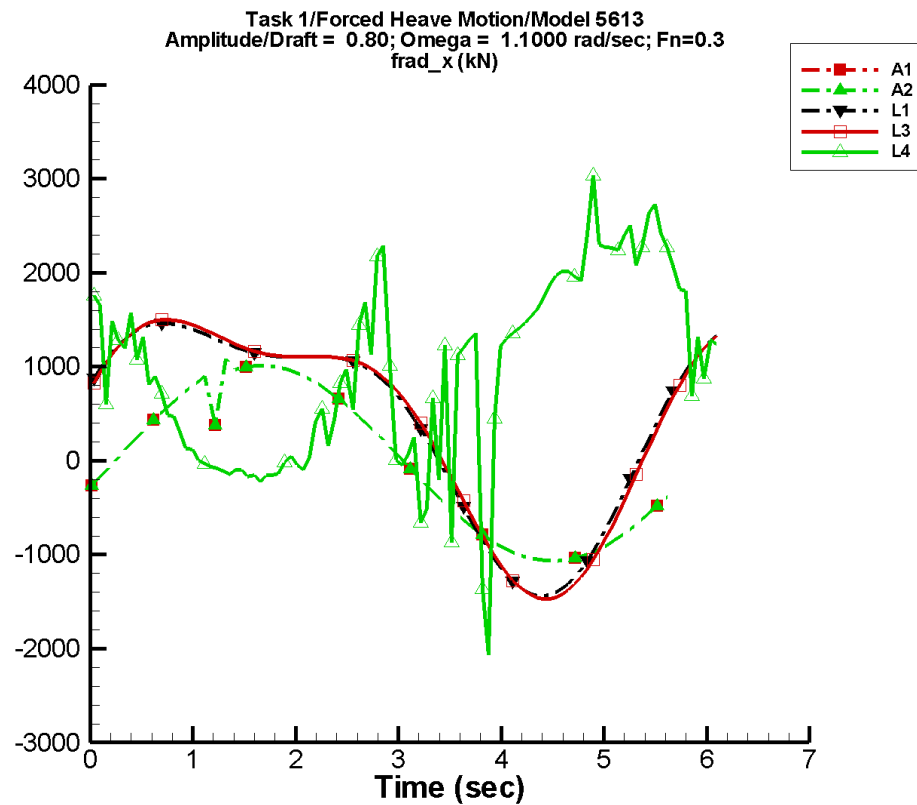
Table A–477. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-15.3	518.	-14	5.38	78
A2	-15.3	518.	-14	5.38	78
FD	—	—	—	—	—
L1	59.3	654.	-1	126.	68
L3	59.3	666.	-3	130.	62
L4	368.	417.	131	151.	162
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–478. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $\text{Fn} = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-534.	543.	-518.	483.
A2	-534.	543.	-518.	483.
FD	—	—	—	—
L1	-717.	612.	-704.	608.
L3	-731.	625.	-718.	621.
L4	-930.	1.16E+03	-46.9	1.05E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-240. Time history of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

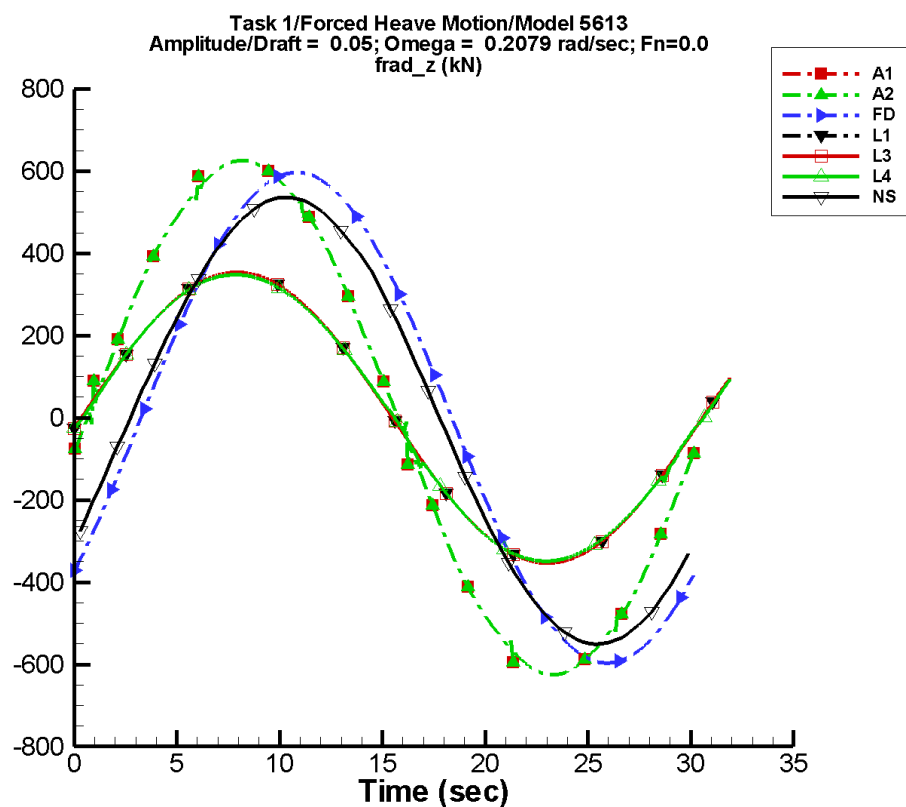
Table A–479. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-30.7	1.04E+03	-14	10.8	78
A2	-30.7	1.04E+03	-14	10.8	78
FD	—	—	—	—	—
L1	362.	1.31E+03	-1	506.	68
L3	362.	1.33E+03	-3	518.	62
L4	964.	936.	138	648.	133
NF	—	—	—	—	—
NS	—	—	—	—	—

Table A–480. Minimum and maximum of F_x^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+03	1.09E+03	-1.04E+03	966.
A2	-1.07E+03	1.09E+03	-1.04E+03	966.
FD	—	—	—	—
L1	-1.44E+03	1.46E+03	-1.40E+03	1.45E+03
L3	-1.47E+03	1.50E+03	-1.44E+03	1.48E+03
L4	-2.06E+03	3.04E+03	-156.	2.40E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-241. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

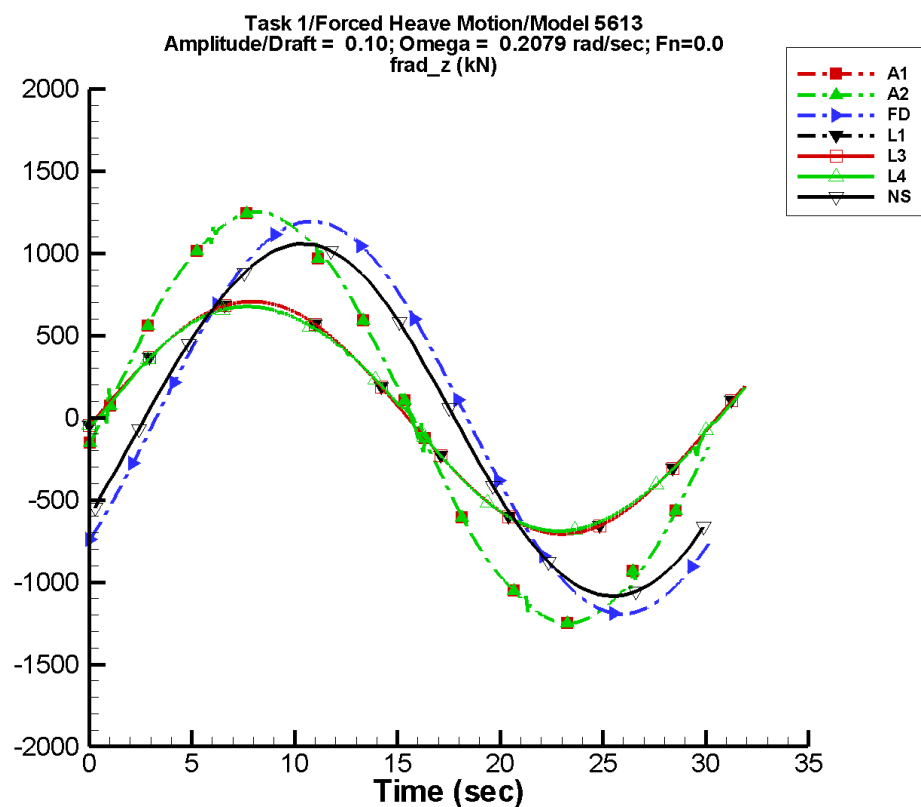
Table A–481. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.79E-02	622.	-8	0.102	-169
A2	-1.79E-02	622.	-8	0.102	-169
FD	4.88E-06	597.	-39	3.46E-05	-149
L1	0.463	353.	-4	0.470	80
L3	0.463	353.	-4	0.470	80
L4	-0.314	350.	-4	0.672	17
NF	—	—	—	—	—
NS	-1.55	545.	-33	1.83	57

Table A–482. Minimum and maximum of of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-626.	626.	-625.	625.
A2	-626.	626.	-625.	625.
FD	-597.	597.	-596.	596.
L1	-353.	353.	-353.	353.
L3	-353.	353.	-353.	353.
L4	-349.	348.	-349.	348.
NF	—	—	—	—
NS	-551.	544.	-545.	539.

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-242. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

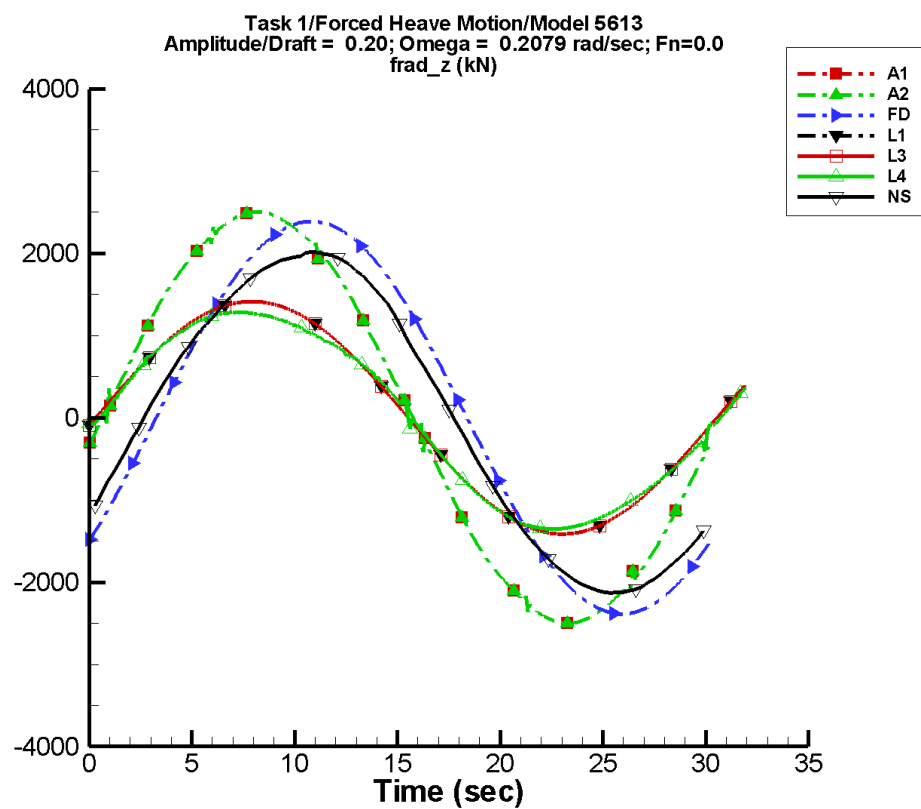
Table A–483. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.58E-02	1.24E+03	-8	0.205	-169
A2	-3.58E-02	1.24E+03	-8	0.205	-169
FD	-1.86E-05	1.19E+03	-39	6.18E-05	77
L1	1.85	707.	-4	1.88	80
L3	1.85	707.	-4	1.88	80
L4	-2.56	689.	-4	5.37	44
NF	—	—	—	—	—
NS	-4.85	1.08E+03	-33	2.48	50

Table A–484. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.25E+03	1.25E+03	-1.25E+03	1.25E+03
A2	-1.25E+03	1.25E+03	-1.25E+03	1.25E+03
FD	-1.19E+03	1.19E+03	-1.19E+03	1.19E+03
L1	-707.	707.	-707.	707.
L3	-707.	707.	-707.	707.
L4	-689.	676.	-689.	676.
NF	—	—	—	—
NS	-1.09E+03	1.07E+03	-1.07E+03	1.06E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-243. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

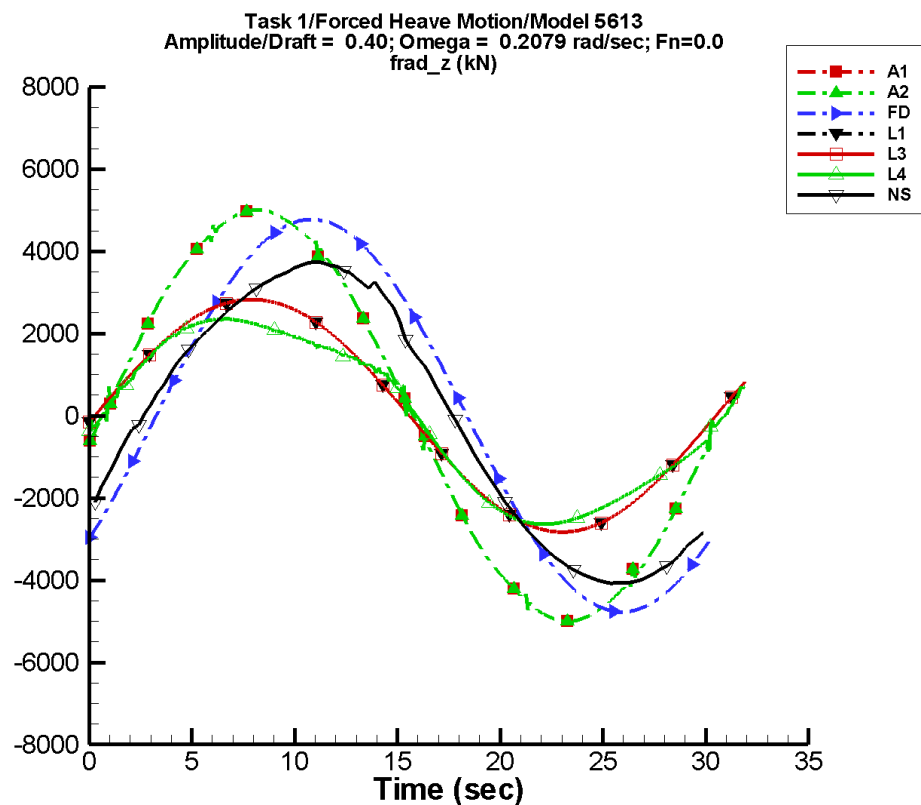
Table A–485. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-7.15E-02	2.49E+03	-8	0.409	-169
A2	-7.15E-02	2.49E+03	-8	0.409	-169
FD	-7.87E-05	2.39E+03	-39	3.50E-05	-135
L1	7.41	1.41E+03	-4	7.52	80
L3	7.41	1.41E+03	-4	7.52	80
L4	-13.1	1.34E+03	-4	31.2	52
NF	—	—	—	—	—
NS	-30.9	2.09E+03	-33	29.5	67

Table A–486. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.50E+03	2.50E+03	-2.50E+03	2.50E+03
A2	-2.50E+03	2.50E+03	-2.50E+03	2.50E+03
FD	-2.39E+03	2.39E+03	-2.38E+03	2.38E+03
L1	-1.41E+03	1.41E+03	-1.41E+03	1.41E+03
L3	-1.41E+03	1.41E+03	-1.41E+03	1.41E+03
L4	-1.35E+03	1.28E+03	-1.35E+03	1.28E+03
NF	—	—	—	—
NS	-2.13E+03	2.05E+03	-2.11E+03	2.02E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-244. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

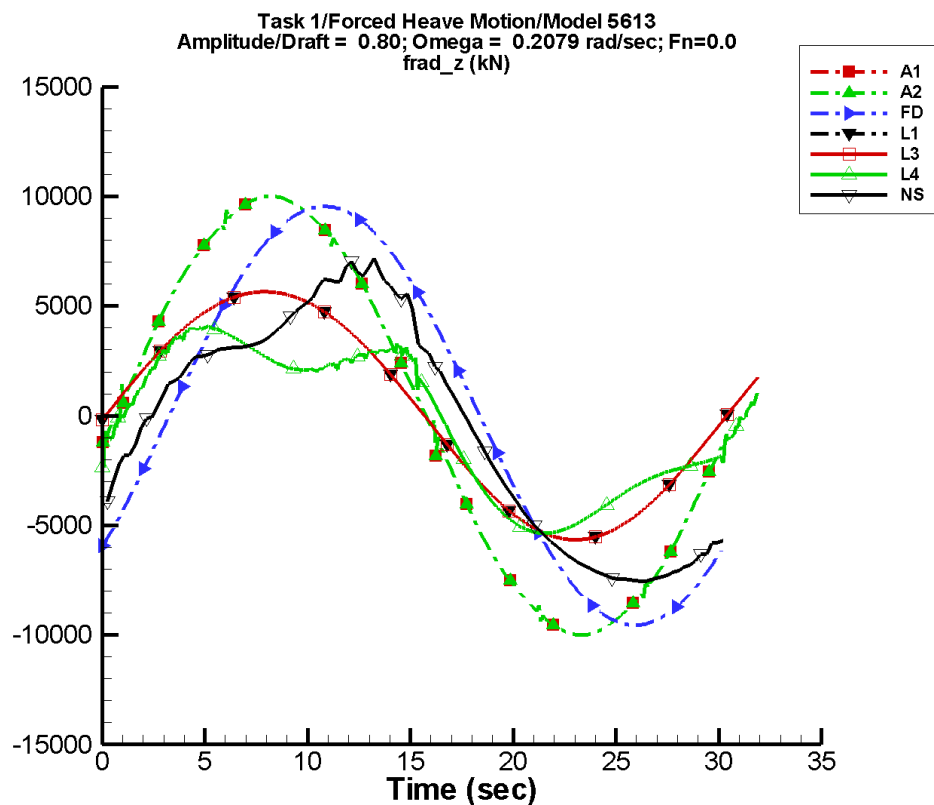
Table A–487. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.143	4.98E+03	-8	0.819	-169
A2	-0.143	4.98E+03	-8	0.819	-169
FD	-1.81E-04	4.77E+03	-39	1.14E-04	129
L1	29.6	2.83E+03	-4	30.1	80
L3	29.6	2.83E+03	-4	30.1	80
L4	-57.4	2.51E+03	-4	137.	54
NF	—	—	—	—	—
NS	-112.	3.95E+03	-34	122.	64

Table A–488. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.00E+03	5.01E+03	-5.00E+03	5.00E+03
A2	-5.00E+03	5.01E+03	-5.00E+03	5.00E+03
FD	-4.77E+03	4.77E+03	-4.77E+03	4.77E+03
L1	-2.83E+03	2.83E+03	-2.83E+03	2.83E+03
L3	-2.83E+03	2.83E+03	-2.83E+03	2.83E+03
L4	-2.64E+03	2.36E+03	-2.64E+03	2.35E+03
NF	—	—	—	—
NS	-4.07E+03	3.80E+03	-4.04E+03	3.73E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-245. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

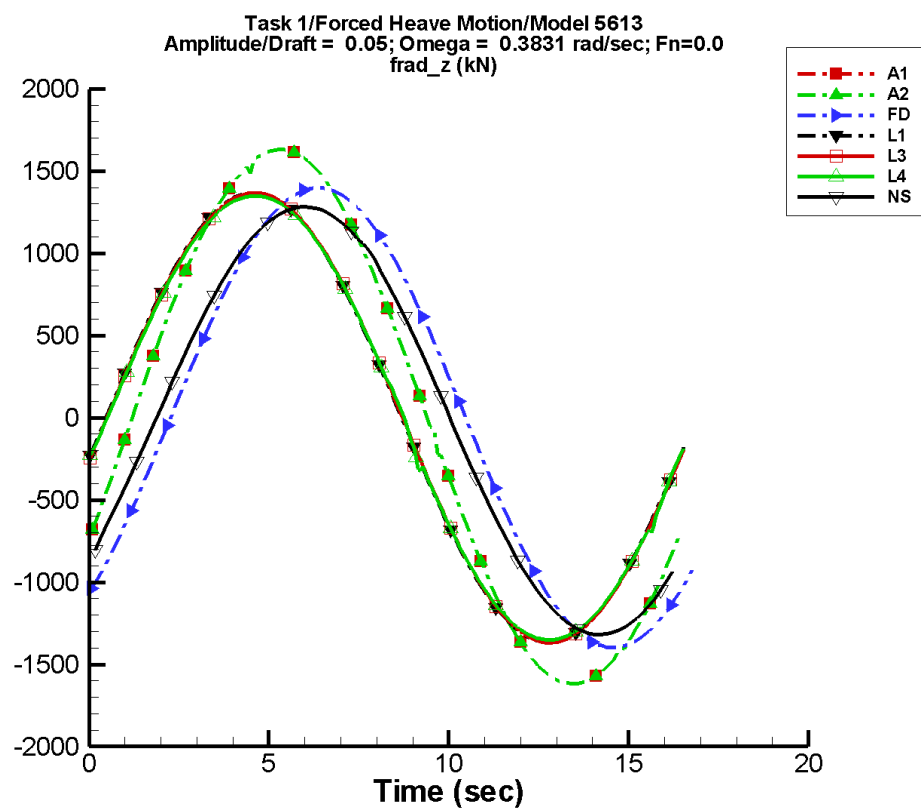
Table A–489. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.286	9.96E+03	-8	1.64	-169
A2	-0.286	9.96E+03	-8	1.64	-169
FD	-2.31E-04	9.55E+03	-39	3.23E-04	146
L1	119.	5.66E+03	-4	120.	80
L3	119.	5.66E+03	-4	120.	80
L4	-326.	4.26E+03	-6	790.	65
NF	—	—	—	—	—
NS	-508.	6.90E+03	-36	764.	70

Table A–490. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.00E+04	1.00E+04	-9.99E+03	1.00E+04
A2	-1.00E+04	1.00E+04	-9.99E+03	1.00E+04
FD	-9.55E+03	9.55E+03	-9.54E+03	9.54E+03
L1	-5.66E+03	5.65E+03	-5.65E+03	5.65E+03
L3	-5.66E+03	5.65E+03	-5.65E+03	5.65E+03
L4	-5.36E+03	4.07E+03	-5.36E+03	4.02E+03
NF	—	—	—	—
NS	-7.55E+03	7.34E+03	-7.50E+03	6.80E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-246. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

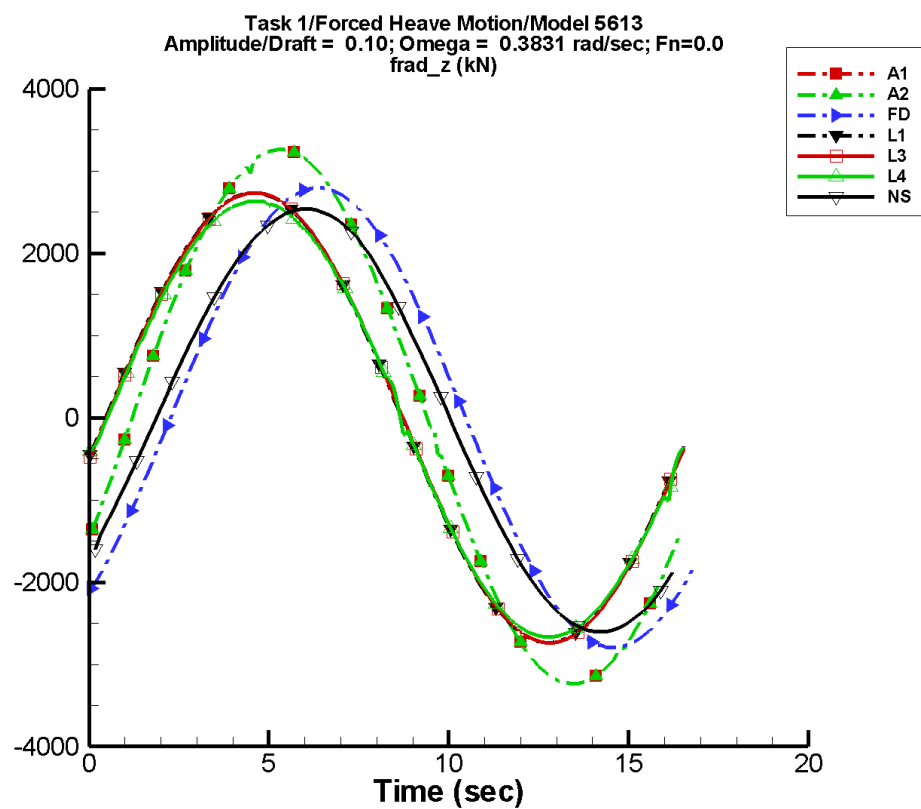
Table A–491. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	3.02	1.62E+03	-26	0.903	103
A2	3.02	1.62E+03	-26	0.903	103
FD	-1.37E-04	1.40E+03	-50	1.54E-04	-82
L1	2.03	1.37E+03	-11	2.12	78
L3	2.03	1.37E+03	-11	2.15	73
L4	-3.02E-02	1.35E+03	-11	4.08	149
NF	—	—	—	—	—
NS	-9.84	1.30E+03	-41	5.54	56

Table A–492. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.62E+03	1.63E+03	-1.61E+03	1.63E+03
A2	-1.62E+03	1.63E+03	-1.61E+03	1.63E+03
FD	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03
L1	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03
L3	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03
L4	-1.35E+03	1.35E+03	-1.35E+03	1.35E+03
NF	—	—	—	—
NS	-1.32E+03	1.29E+03	-1.31E+03	1.27E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-247. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

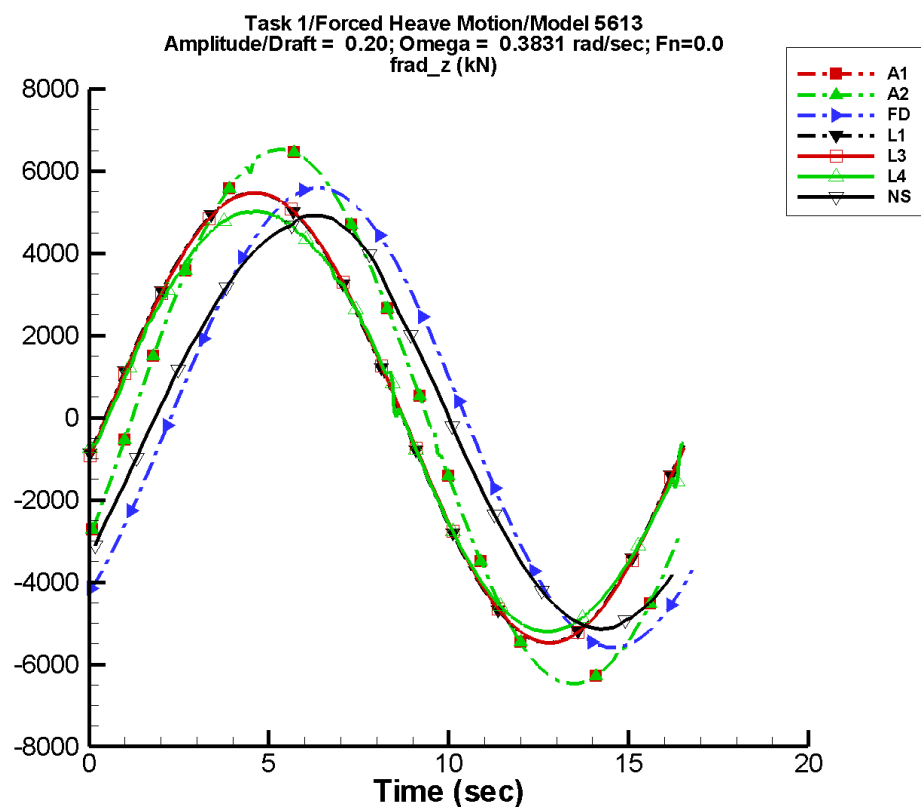
Table A-493. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.05	3.25E+03	-26	1.81	103
A2	6.05	3.25E+03	-26	1.81	103
FD	-2.54E-04	2.80E+03	-50	2.12E-04	-103
L1	8.11	2.74E+03	-11	8.50	78
L3	8.11	2.74E+03	-11	8.62	72
L4	-5.36	2.67E+03	-11	17.3	121
NF	—	—	—	—	—
NS	-21.9	2.58E+03	-41	9.75	64

Table A-494. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.23E+03	3.26E+03	-3.22E+03	3.25E+03
A2	-3.23E+03	3.26E+03	-3.22E+03	3.25E+03
FD	-2.80E+03	2.80E+03	-2.79E+03	2.79E+03
L1	-2.74E+03	2.74E+03	-2.73E+03	2.73E+03
L3	-2.74E+03	2.74E+03	-2.73E+03	2.73E+03
L4	-2.67E+03	2.63E+03	-2.66E+03	2.63E+03
NF	—	—	—	—
NS	-2.60E+03	2.55E+03	-2.58E+03	2.52E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-248. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

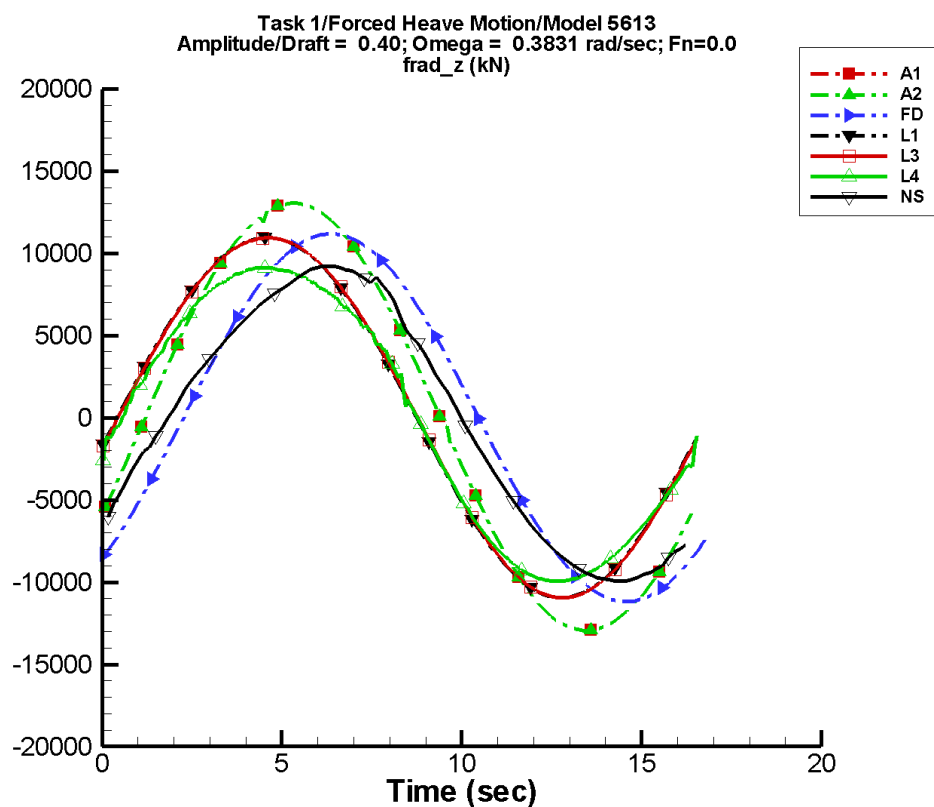
Table A–495. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.1	6.49E+03	-26	3.61	103
A2	12.1	6.49E+03	-26	3.61	103
FD	-5.84E-04	5.59E+03	-50	4.61E-04	-87
L1	32.4	5.47E+03	-11	34.0	77
L3	32.4	5.47E+03	-11	34.5	72
L4	-31.8	5.17E+03	-11	81.1	105
NF	—	—	—	—	—
NS	-88.5	5.01E+03	-41	82.7	68

Table A–496. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.47E+03	6.52E+03	-6.44E+03	6.50E+03
A2	-6.47E+03	6.52E+03	-6.44E+03	6.50E+03
FD	-5.59E+03	5.59E+03	-5.59E+03	5.57E+03
L1	-5.47E+03	5.47E+03	-5.47E+03	5.47E+03
L3	-5.47E+03	5.47E+03	-5.47E+03	5.46E+03
L4	-5.20E+03	5.02E+03	-5.19E+03	5.01E+03
NF	—	—	—	—
NS	-5.15E+03	4.94E+03	-5.09E+03	4.87E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-249. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

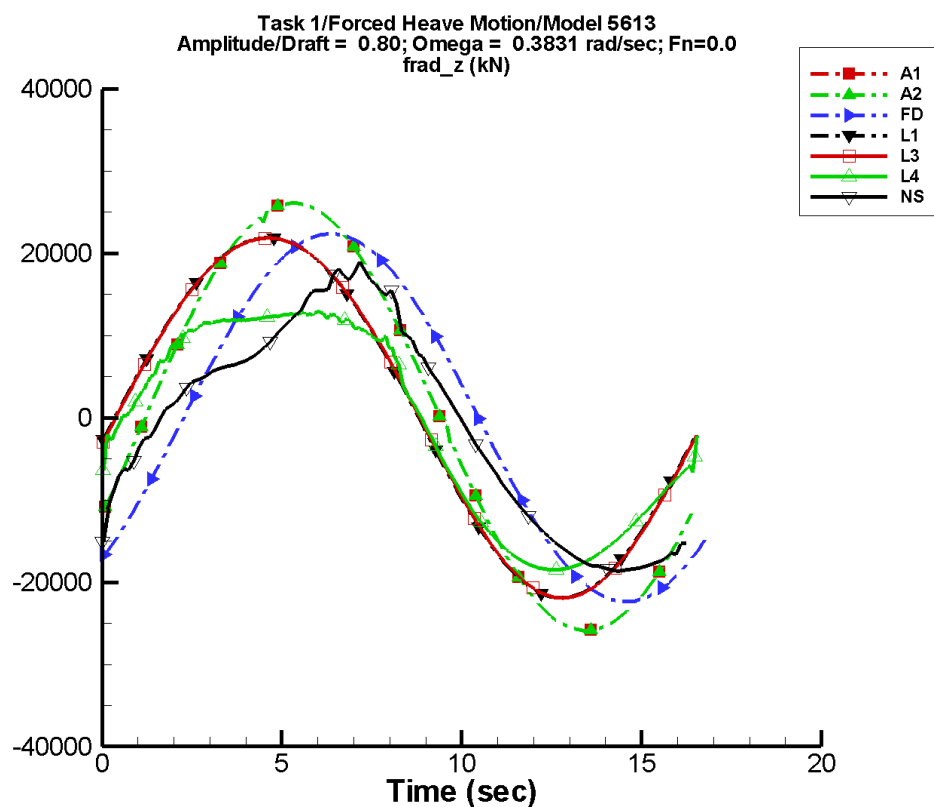
Table A–497. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	24.2	1.30E+04	-26	7.22	103
A2	24.2	1.30E+04	-26	7.22	103
FD	-1.28E-03	1.12E+04	-50	1.35E-03	-88
L1	130.	1.09E+04	-11	136.	77
L3	130.	1.09E+04	-11	138.	72
L4	-158.	9.74E+03	-12	336.	99
NF	—	—	—	—	—
NS	-263.	9.53E+03	-42	327.	61

Table A–498. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.29E+04	1.30E+04	-1.29E+04	1.30E+04
A2	-1.29E+04	1.30E+04	-1.29E+04	1.30E+04
FD	-1.12E+04	1.12E+04	-1.12E+04	1.11E+04
L1	-1.10E+04	1.09E+04	-1.09E+04	1.09E+04
L3	-1.10E+04	1.09E+04	-1.09E+04	1.09E+04
L4	-9.95E+03	9.18E+03	-9.94E+03	9.12E+03
NF	—	—	—	—
NS	-9.93E+03	9.26E+03	-9.83E+03	9.12E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-250. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

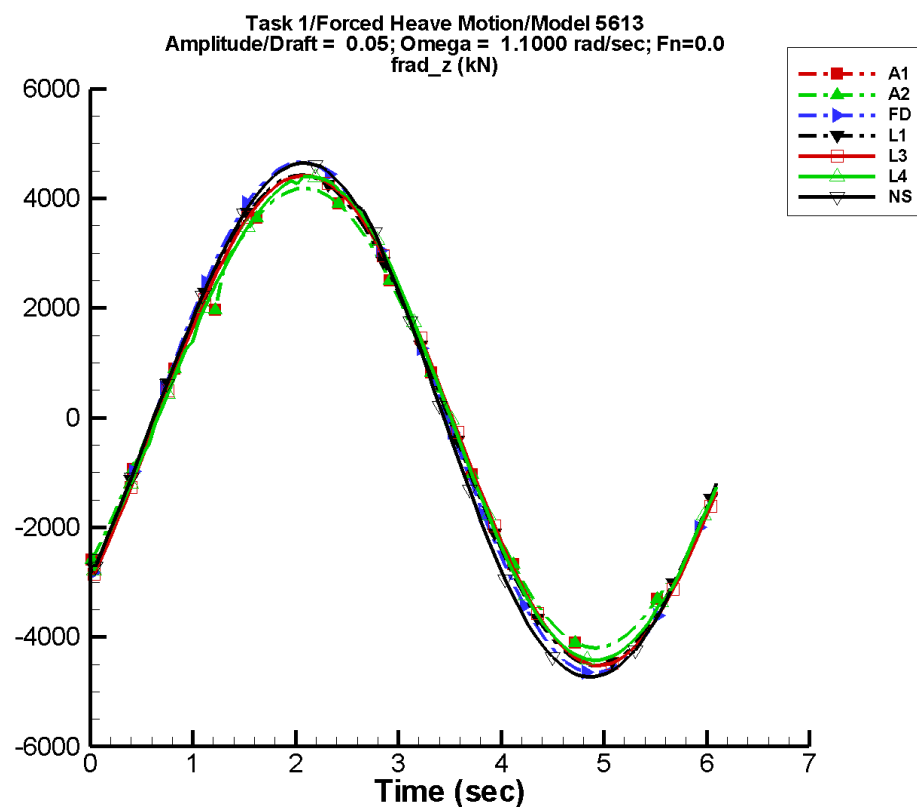
Table A–499. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	48.4	2.60E+04	-26	14.4	103
A2	48.4	2.60E+04	-26	14.4	103
FD	-1.30E-03	2.24E+04	-50	1.72E-03	-112
L1	519.	2.19E+04	-11	544.	77
L3	519.	2.19E+04	-11	552.	72
L4	-1.11E+03	1.64E+04	-14	2.03E+03	91
NF	—	—	—	—	—
NS	-1.04E+03	1.70E+04	-44	1.90E+03	68

Table A–500. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.59E+04	2.61E+04	-2.58E+04	2.60E+04
A2	-2.59E+04	2.61E+04	-2.58E+04	2.60E+04
FD	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
L1	-2.19E+04	2.19E+04	-2.19E+04	2.18E+04
L3	-2.19E+04	2.19E+04	-2.19E+04	2.18E+04
L4	-1.85E+04	1.30E+04	-1.85E+04	1.27E+04
NF	—	—	—	—
NS	-1.87E+04	1.90E+04	-1.84E+04	1.75E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-251. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

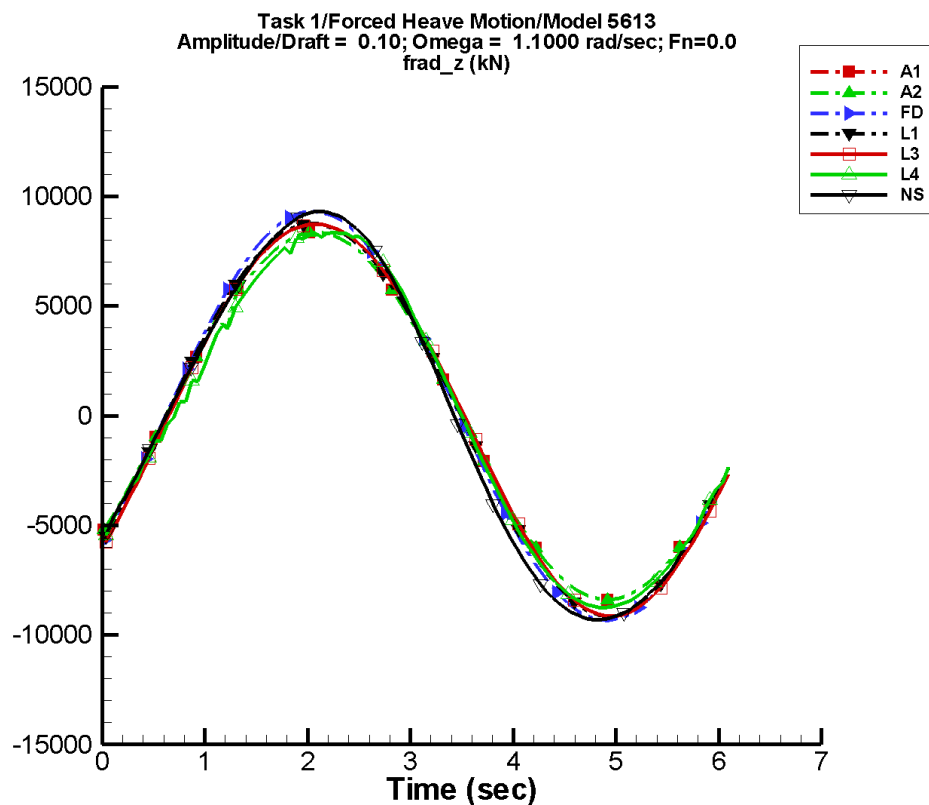
Table A–501. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.85	4.18E+03	-40	54.6	82
A2	-5.85	4.18E+03	-40	54.6	82
FD	-3.40E-05	4.66E+03	-39	1.16E-03	-19
L1	-14.8	4.47E+03	-40	35.1	-11
L3	-14.8	4.47E+03	-42	38.9	-12
L4	-21.6	4.40E+03	-42	104.	96
NF	—	—	—	—	—
NS	-64.2	4.70E+03	-38	103.	116

Table A–502. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.20E+03	4.18E+03	-4.07E+03	4.06E+03
A2	-4.20E+03	4.18E+03	-4.07E+03	4.06E+03
FD	-4.66E+03	4.66E+03	-4.52E+03	4.53E+03
L1	-4.52E+03	4.43E+03	-4.47E+03	4.38E+03
L3	-4.52E+03	4.42E+03	-4.47E+03	4.37E+03
L4	-4.42E+03	4.40E+03	-4.37E+03	4.34E+03
NF	—	—	—	—
NS	-4.73E+03	4.66E+03	-4.68E+03	4.61E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-252. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

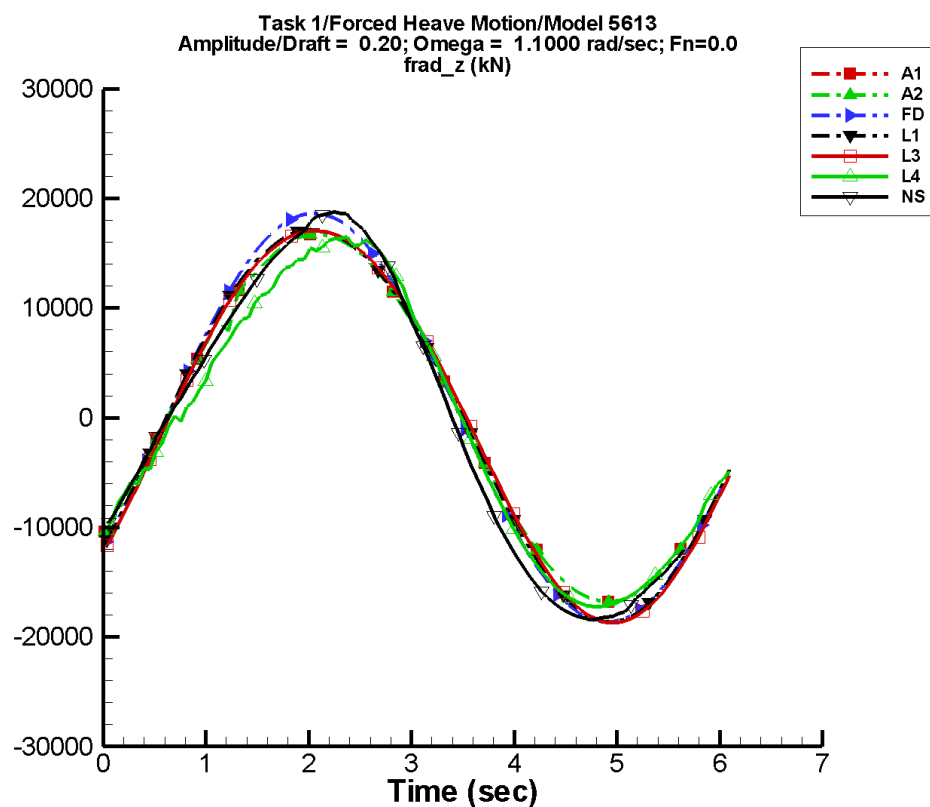
Table A–503. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-11.7	8.35E+03	-40	109.	82
A2	-11.7	8.35E+03	-40	109.	82
FD	1.02E-04	9.33E+03	-39	2.44E-03	-12
L1	-59.3	8.94E+03	-40	141.	-11
L3	-59.3	8.94E+03	-42	156.	-13
L4	-168.	8.58E+03	-42	468.	98
NF	—	—	—	—	—
NS	-164.	9.30E+03	-38	411.	123

Table A–504. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.40E+03	8.37E+03	-8.15E+03	8.11E+03
A2	-8.40E+03	8.37E+03	-8.15E+03	8.11E+03
FD	-9.33E+03	9.33E+03	-9.04E+03	9.06E+03
L1	-9.13E+03	8.76E+03	-9.03E+03	8.66E+03
L3	-9.15E+03	8.73E+03	-9.04E+03	8.64E+03
L4	-8.75E+03	8.45E+03	-8.66E+03	8.30E+03
NF	—	—	—	—
NS	-9.30E+03	9.34E+03	-9.21E+03	9.22E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-253. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

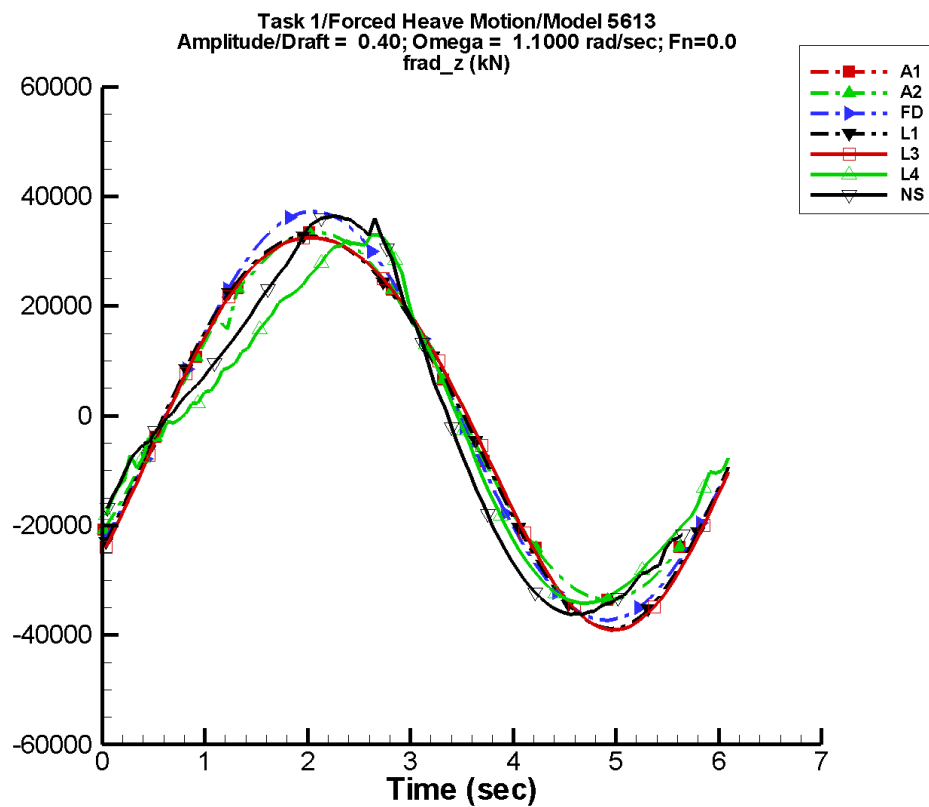
Table A–505. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-23.4	1.67E+04	-40	218.	82
A2	-23.4	1.67E+04	-40	218.	82
FD	-3.03E-04	1.87E+04	-39	4.44E-03	-25
L1	-237.	1.79E+04	-40	564.	-12
L3	-237.	1.79E+04	-42	625.	-13
L4	-659.	1.65E+04	-43	1.81E+03	98
NF	—	—	—	—	—
NS	-607.	1.81E+04	-38	1.71E+03	119

Table A–506. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.68E+04	1.67E+04	-1.63E+04	1.62E+04
A2	-1.68E+04	1.67E+04	-1.63E+04	1.62E+04
FD	-1.87E+04	1.87E+04	-1.81E+04	1.81E+04
L1	-1.86E+04	1.71E+04	-1.84E+04	1.70E+04
L3	-1.87E+04	1.71E+04	-1.85E+04	1.69E+04
L4	-1.72E+04	1.68E+04	-1.70E+04	1.61E+04
NF	—	—	—	—
NS	-1.84E+04	1.88E+04	-1.82E+04	1.84E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-254. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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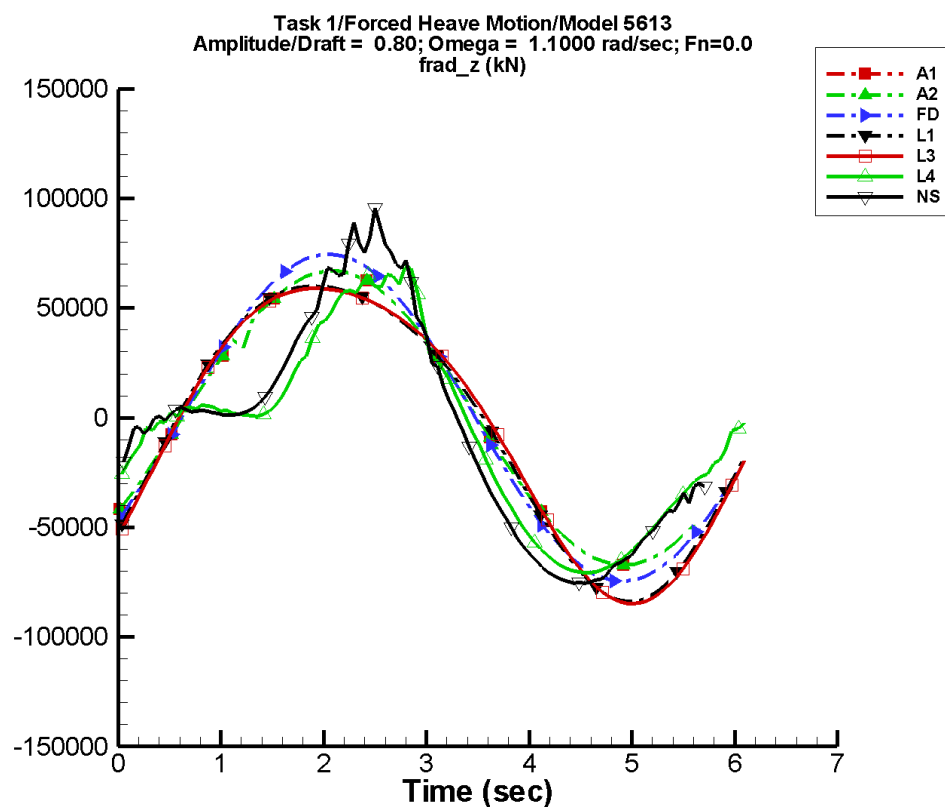
Table A–507. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-46.8	3.34E+04	-40	437.	82
A2	-46.8	3.34E+04	-40	437.	82
FD	-1.08E-03	3.73E+04	-39	9.18E-03	-16
L1	-949.	3.58E+04	-40	2.26E+03	-12
L3	-949.	3.58E+04	-42	2.50E+03	-13
L4	-2.11E+03	3.08E+04	-44	7.01E+03	94
NF	—	—	—	—	—
NS	-1.84E+03	3.44E+04	-38	6.37E+03	114

Table A–508. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.36E+04	3.35E+04	-3.26E+04	3.25E+04
A2	-3.36E+04	3.35E+04	-3.26E+04	3.25E+04
FD	-3.73E+04	3.73E+04	-3.62E+04	3.62E+04
L1	-3.88E+04	3.28E+04	-3.84E+04	3.25E+04
L3	-3.91E+04	3.25E+04	-3.86E+04	3.22E+04
L4	-3.42E+04	3.46E+04	-3.38E+04	3.21E+04
NF	—	—	—	—
NS	-3.63E+04	3.65E+04	-3.58E+04	3.60E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-255. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

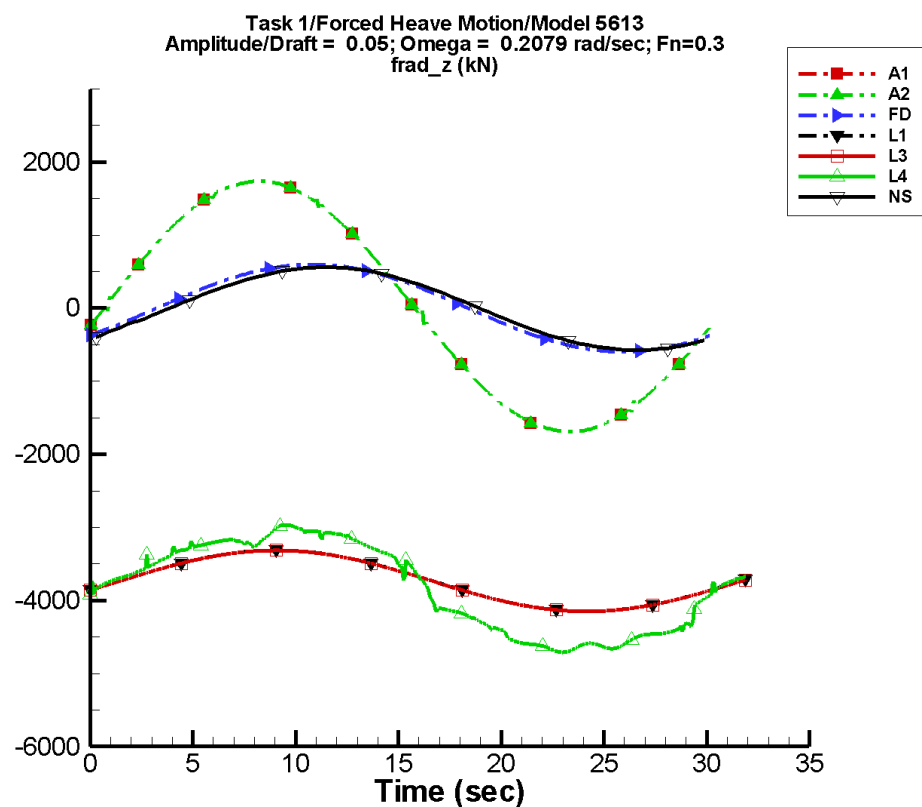
Table A–509. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-93.6	6.68E+04	-40	873.	82
A2	-93.6	6.68E+04	-40	873.	82
FD	-1.25E-03	7.46E+04	-39	2.19E-02	-18
L1	-3.80E+03	7.16E+04	-40	9.04E+03	-12
L3	-3.80E+03	7.15E+04	-42	1.00E+04	-13
L4	-6.28E+03	5.51E+04	-41	2.50E+04	92
NF	—	—	—	—	—
NS	-5.41E+03	6.28E+04	-37	2.62E+04	110

Table A–510. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.72E+04	6.69E+04	-6.52E+04	6.49E+04
A2	-6.72E+04	6.69E+04	-6.52E+04	6.49E+04
FD	-7.46E+04	7.46E+04	-7.23E+04	7.25E+04
L1	-8.39E+04	6.00E+04	-8.27E+04	5.95E+04
L3	-8.49E+04	5.89E+04	-8.37E+04	5.85E+04
L4	-7.08E+04	7.13E+04	-6.98E+04	6.43E+04
NF	—	—	—	—
NS	-7.55E+04	9.65E+04	-7.48E+04	8.34E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-256. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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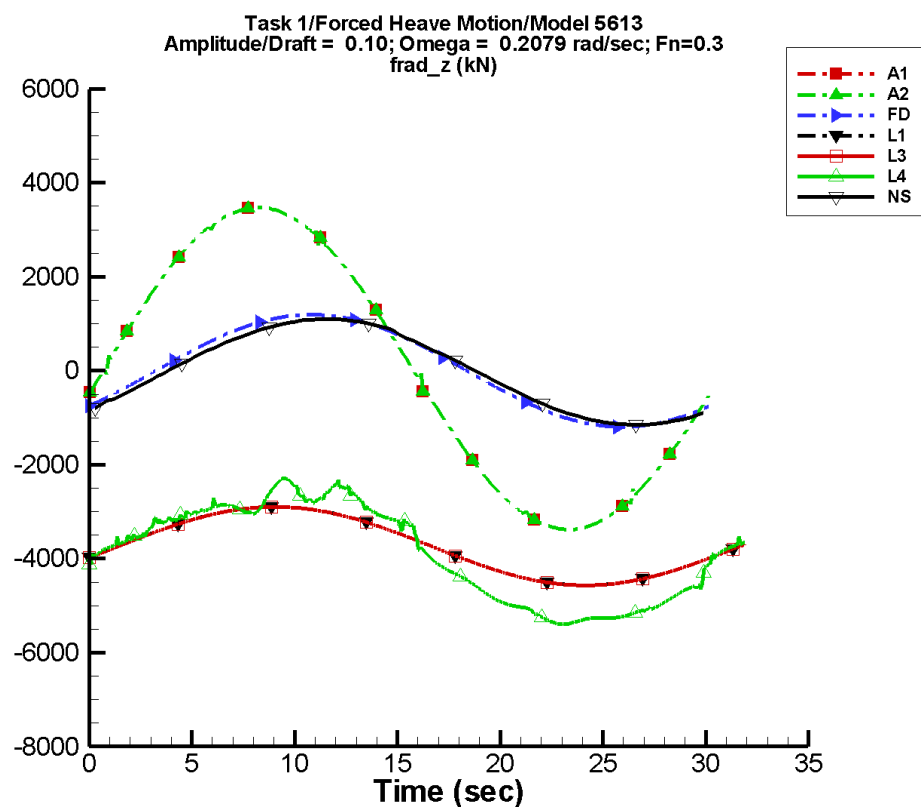
Table A–511. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.06	1.70E+03	-8	11.2	-156
A2	6.06	1.70E+03	-8	11.2	-156
FD	-1.43E-05	597.	-39	2.04E-05	-146
L1	-3.73E+03	417.	-18	0.552	76
L3	-3.73E+03	417.	-18	0.550	76
L4	-3.83E+03	832.	-14	86.8	104
NF	—	—	—	—	—
NS	-3.19	567.	-46	2.24	27

Table A–512. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.69E+03	1.74E+03	-1.69E+03	1.74E+03
A2	-1.69E+03	1.74E+03	-1.69E+03	1.74E+03
FD	-597.	597.	-596.	596.
L1	-4.15E+03	-3.31E+03	-4.15E+03	-3.32E+03
L3	-4.15E+03	-3.32E+03	-4.15E+03	-3.32E+03
L4	-4.71E+03	-2.96E+03	-4.71E+03	-2.97E+03
NF	—	—	—	—
NS	-576.	569.	-570.	563.

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-257. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

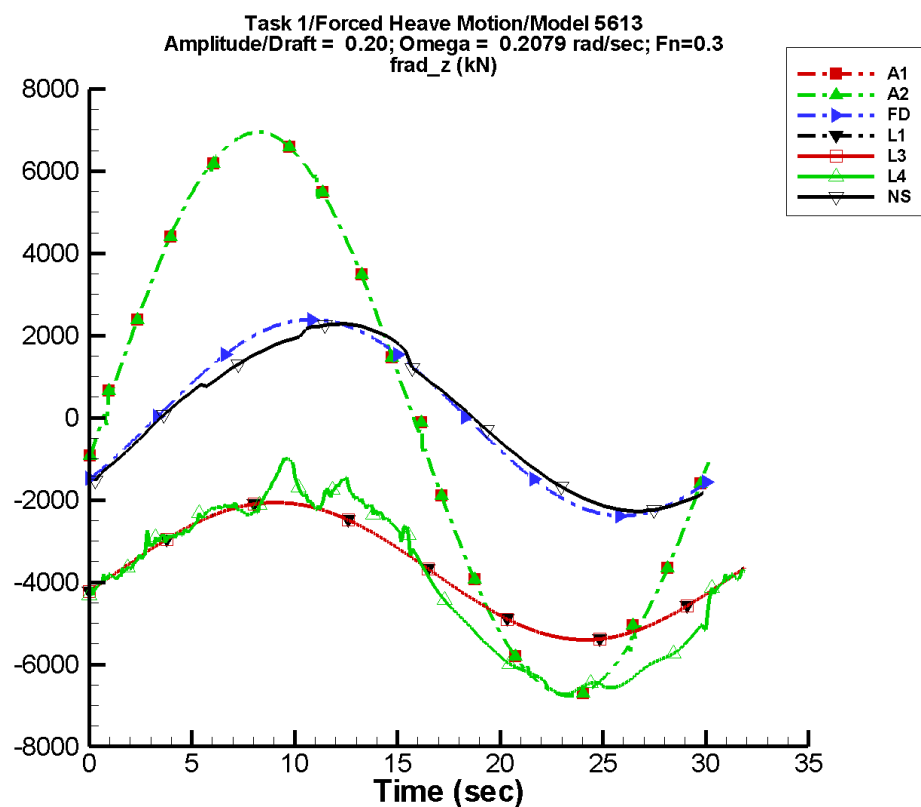
Table A-513. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.1	3.40E+03	-8	22.3	-156
A2	12.1	3.40E+03	-8	22.3	-156
FD	-1.86E-05	1.19E+03	-39	6.18E-05	77
L1	-3.73E+03	835.	-18	2.20	76
L3	-3.73E+03	835.	-18	2.20	76
L4	-3.89E+03	1.40E+03	-17	184.	96
NF	—	—	—	—	—
NS	-19.8	1.13E+03	-46	3.10	-120

Table A-514. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.38E+03	3.48E+03	-3.38E+03	3.47E+03
A2	-3.38E+03	3.48E+03	-3.38E+03	3.47E+03
FD	-1.19E+03	1.19E+03	-1.19E+03	1.19E+03
L1	-4.57E+03	-2.90E+03	-4.57E+03	-2.90E+03
L3	-4.57E+03	-2.90E+03	-4.57E+03	-2.90E+03
L4	-5.40E+03	-2.25E+03	-5.39E+03	-2.31E+03
NF	—	—	—	—
NS	-1.15E+03	1.12E+03	-1.14E+03	1.11E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-258. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

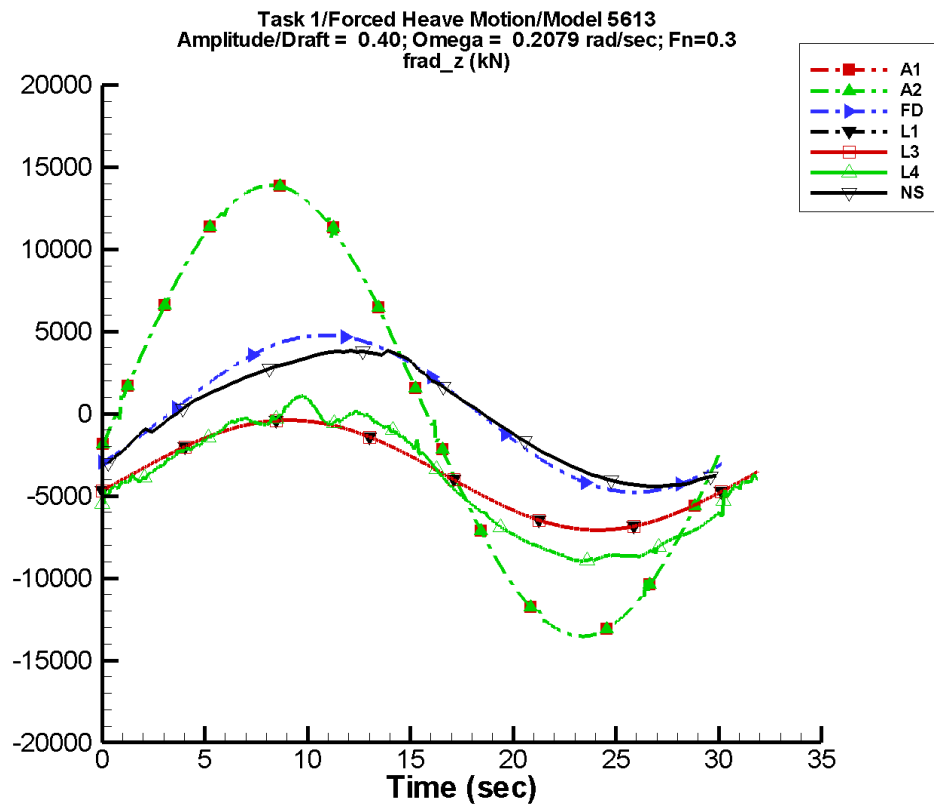
Table A–515. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	24.2	6.80E+03	-8	44.6	-156
A2	24.2	6.80E+03	-8	44.6	-156
FD	-7.87E-05	2.39E+03	-39	3.50E-05	-135
L1	-3.72E+03	1.67E+03	-18	8.81	76
L3	-3.72E+03	1.67E+03	-18	8.81	76
L4	-4.02E+03	2.51E+03	-19	303.	97
NF	—	—	—	—	—
NS	-18.4	2.24E+03	-45	56.1	81

Table A–516. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.77E+03	6.95E+03	-6.76E+03	6.94E+03
A2	-6.77E+03	6.95E+03	-6.76E+03	6.94E+03
FD	-2.39E+03	2.39E+03	-2.38E+03	2.38E+03
L1	-5.40E+03	-2.06E+03	-5.40E+03	-2.06E+03
L3	-5.40E+03	-2.06E+03	-5.40E+03	-2.06E+03
L4	-6.73E+03	-987.	-6.73E+03	-1.03E+03
NF	—	—	—	—
NS	-2.28E+03	2.33E+03	-2.25E+03	2.30E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-259. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

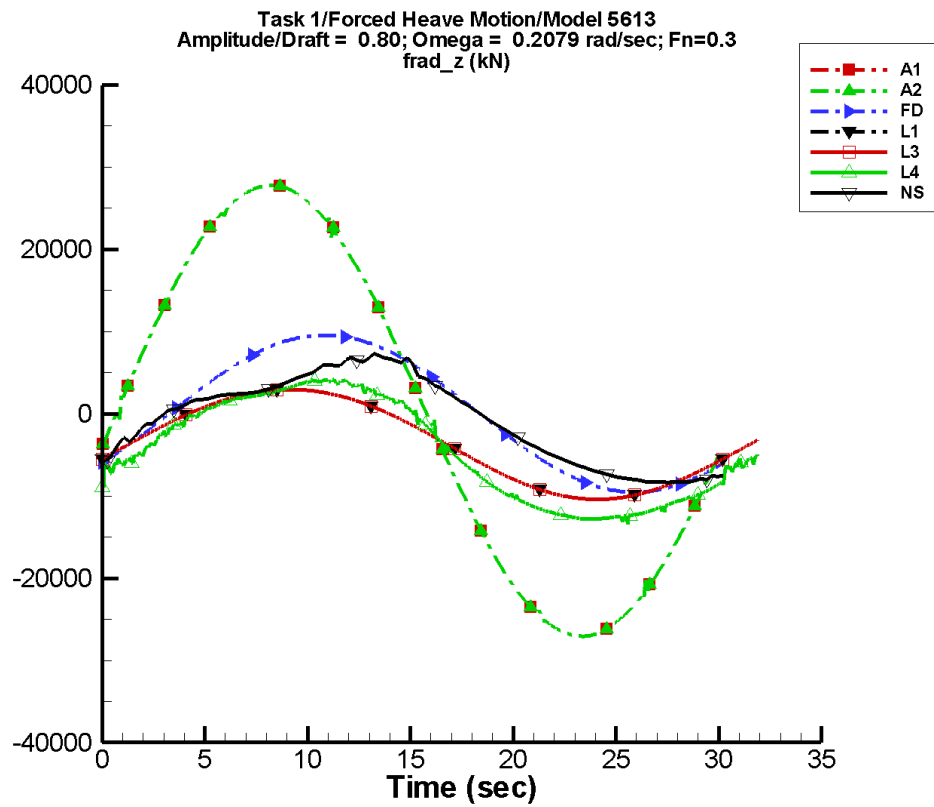
Table A–517. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	48.5	1.36E+04	-8	89.2	-156
A2	48.5	1.36E+04	-8	89.2	-156
FD	-1.81E-04	4.77E+03	-39	1.14E-04	129
L1	-3.70E+03	3.34E+03	-18	35.2	76
L3	-3.70E+03	3.34E+03	-18	35.2	76
L4	-4.19E+03	4.63E+03	-21	369.	106
NF	—	—	—	—	—
NS	-198.	4.13E+03	-45	159.	33

Table A–518. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.35E+04	1.39E+04	-1.35E+04	1.39E+04
A2	-1.35E+04	1.39E+04	-1.35E+04	1.39E+04
FD	-4.77E+03	4.77E+03	-4.77E+03	4.77E+03
L1	-7.07E+03	-394.	-7.07E+03	-395.
L3	-7.07E+03	-394.	-7.07E+03	-396.
L4	-8.94E+03	1.08E+03	-8.93E+03	1.02E+03
NF	—	—	—	—
NS	-4.43E+03	3.93E+03	-4.38E+03	3.85E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-260. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

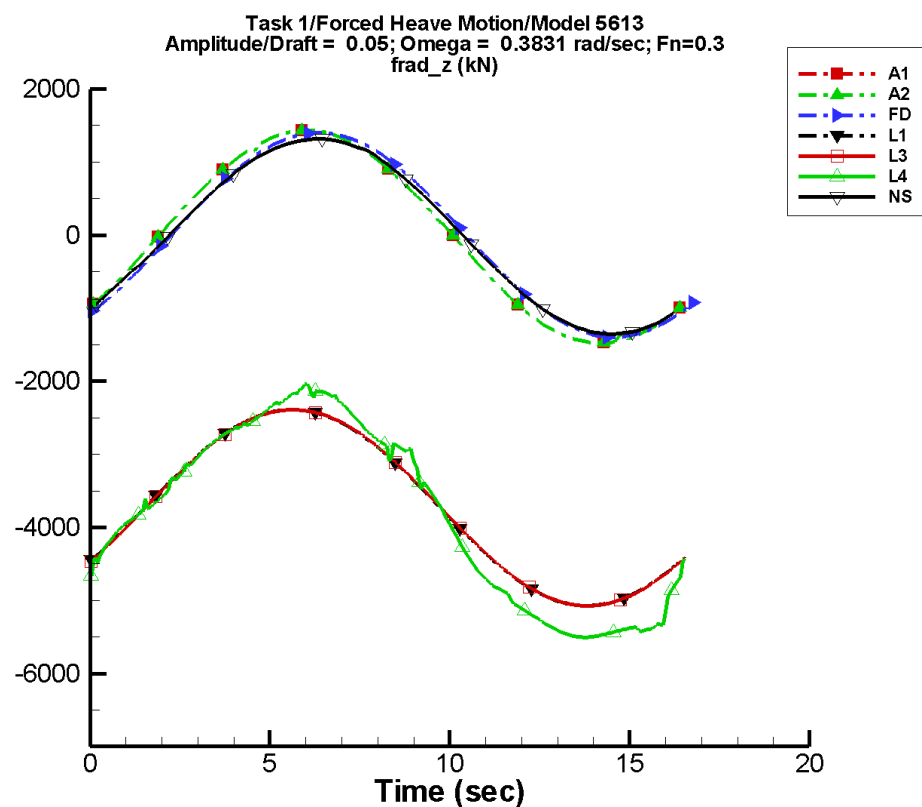
Table A–519. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	97.0	2.72E+04	-8	178.	-156
A2	97.0	2.72E+04	-8	178.	-156
FD	-2.31E-04	9.55E+03	-39	3.23E-04	146
L1	-3.60E+03	6.68E+03	-18	141.	76
L3	-3.60E+03	6.68E+03	-18	141.	76
L4	-4.50E+03	8.51E+03	-24	656.	119
NF	—	—	—	—	—
NS	-712.	7.21E+03	-46	824.	46

Table A–520. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.71E+04	2.78E+04	-2.70E+04	2.78E+04
A2	-2.71E+04	2.78E+04	-2.70E+04	2.78E+04
FD	-9.55E+03	9.55E+03	-9.54E+03	9.54E+03
L1	-1.04E+04	2.95E+03	-1.04E+04	2.94E+03
L3	-1.04E+04	2.94E+03	-1.04E+04	2.94E+03
L4	-1.34E+04	4.15E+03	-1.28E+04	4.03E+03
NF	—	—	—	—
NS	-8.35E+03	7.55E+03	-8.30E+03	6.98E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-261. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

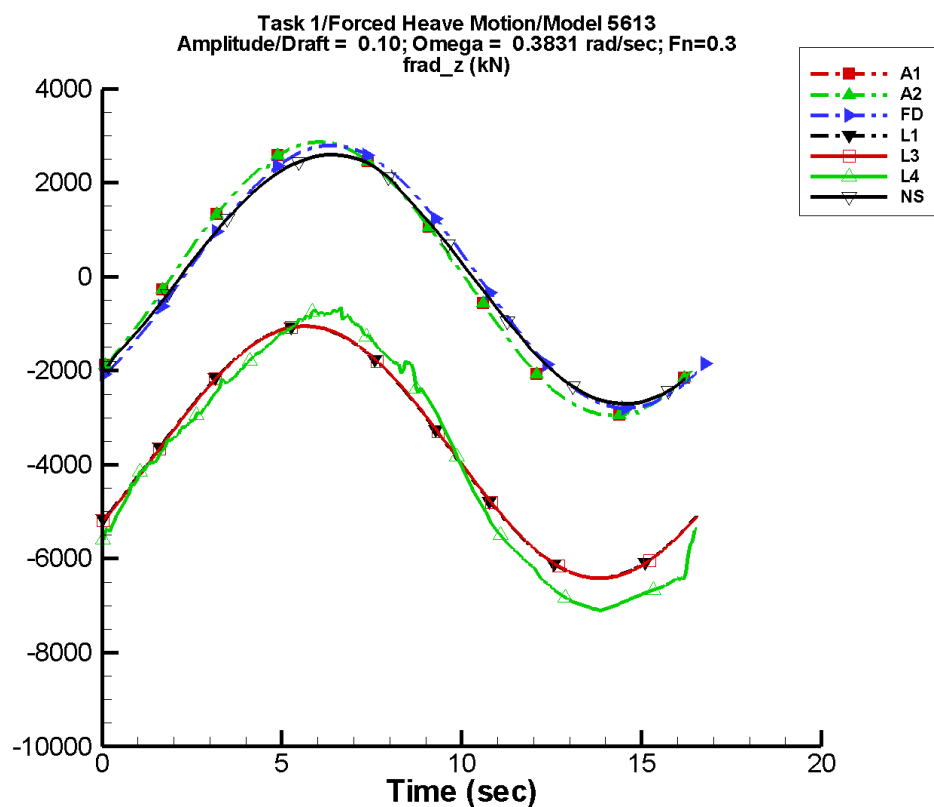
Table A-521. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-19.6	1.45E+03	-42	6.97	8
A2	-19.6	1.45E+03	-42	6.97	8
FD	-1.37E-04	1.40E+03	-50	1.54E-04	-82
L1	-3.73E+03	1.34E+03	-33	2.31	59
L3	-3.73E+03	1.34E+03	-34	2.40	55
L4	-3.82E+03	1.64E+03	-34	111.	79
NF	—	—	—	—	—
NS	-10.7	1.33E+03	-48	8.08	44

Table A-522. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.48E+03	1.43E+03	-1.47E+03	1.43E+03
A2	-1.48E+03	1.43E+03	-1.47E+03	1.43E+03
FD	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03
L1	-5.07E+03	-2.39E+03	-5.07E+03	-2.39E+03
L3	-5.07E+03	-2.39E+03	-5.07E+03	-2.39E+03
L4	-5.51E+03	-2.04E+03	-5.50E+03	-2.11E+03
NF	—	—	—	—
NS	-1.35E+03	1.32E+03	-1.34E+03	1.30E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-262. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

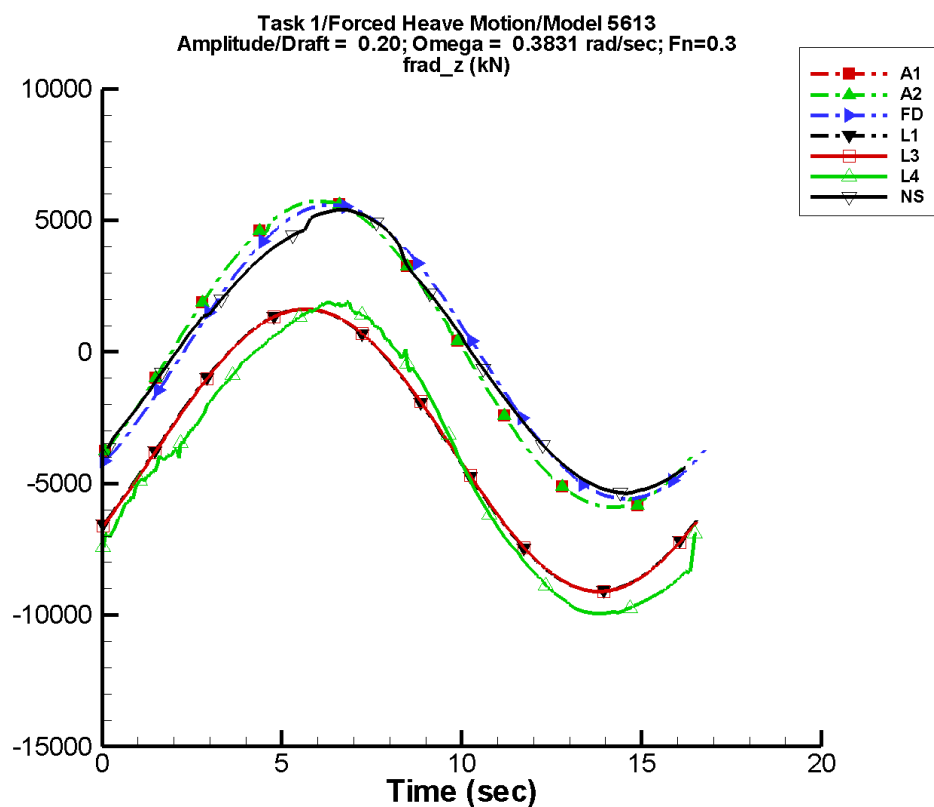
Table A–523. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-39.2	2.91E+03	-42	13.9	8
A2	-39.2	2.91E+03	-42	13.9	8
FD	-2.54E-04	2.80E+03	-50	2.12E-04	-103
L1	-3.73E+03	2.68E+03	-33	9.26	59
L3	-3.73E+03	2.68E+03	-34	9.58	55
L4	-3.90E+03	3.09E+03	-37	245.	82
NF	—	—	—	—	—
NS	-45.7	2.65E+03	-48	8.38	54

Table A–524. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.95E+03	2.87E+03	-2.93E+03	2.86E+03
A2	-2.95E+03	2.87E+03	-2.93E+03	2.86E+03
FD	-2.80E+03	2.80E+03	-2.79E+03	2.79E+03
L1	-6.41E+03	-1.05E+03	-6.41E+03	-1.06E+03
L3	-6.42E+03	-1.05E+03	-6.41E+03	-1.06E+03
L4	-7.10E+03	-633.	-7.08E+03	-755.
NF	—	—	—	—
NS	-2.70E+03	2.60E+03	-2.68E+03	2.57E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-263. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

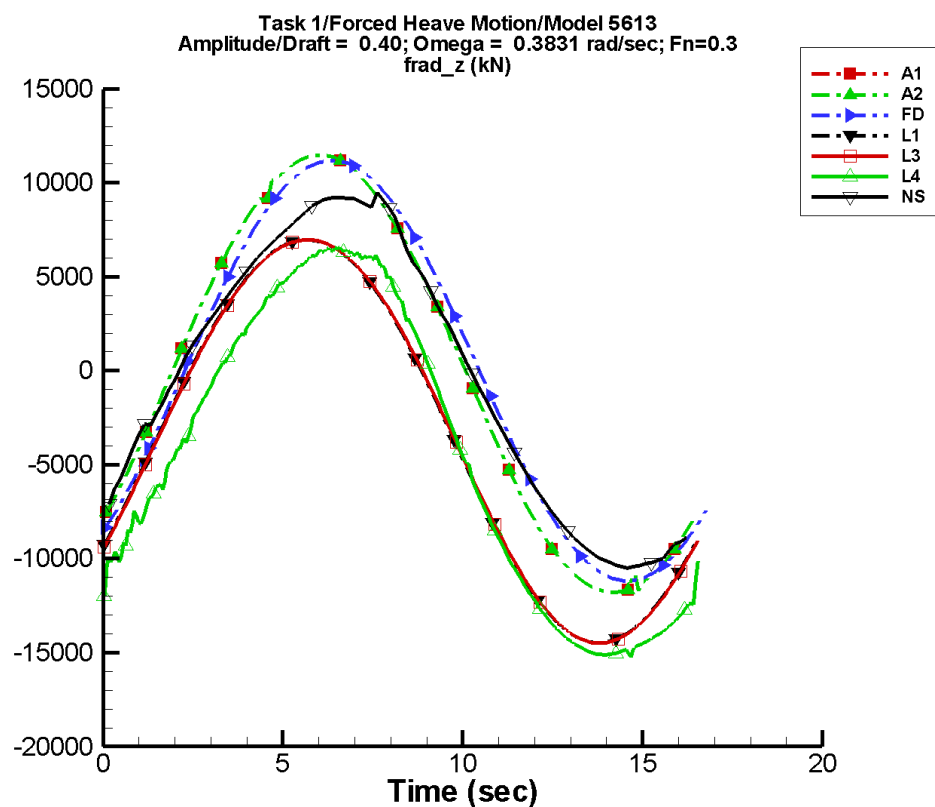
Table A–525. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-78.4	5.82E+03	-42	27.9	8
A2	-78.4	5.82E+03	-42	27.9	8
FD	-5.84E-04	5.59E+03	-50	4.61E-04	-87
L1	-3.71E+03	5.36E+03	-33	37.0	59
L3	-3.71E+03	5.37E+03	-34	38.3	55
L4	-4.10E+03	5.78E+03	-40	479.	94
NF	—	—	—	—	—
NS	-52.8	5.24E+03	-48	150.	83

Table A–526. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.90E+03	5.73E+03	-5.87E+03	5.71E+03
A2	-5.90E+03	5.73E+03	-5.87E+03	5.71E+03
FD	-5.59E+03	5.59E+03	-5.59E+03	5.57E+03
L1	-9.10E+03	1.62E+03	-9.09E+03	1.62E+03
L3	-9.11E+03	1.62E+03	-9.10E+03	1.62E+03
L4	-9.94E+03	1.92E+03	-9.93E+03	1.83E+03
NF	—	—	—	—
NS	-5.38E+03	5.45E+03	-5.29E+03	5.36E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-264. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

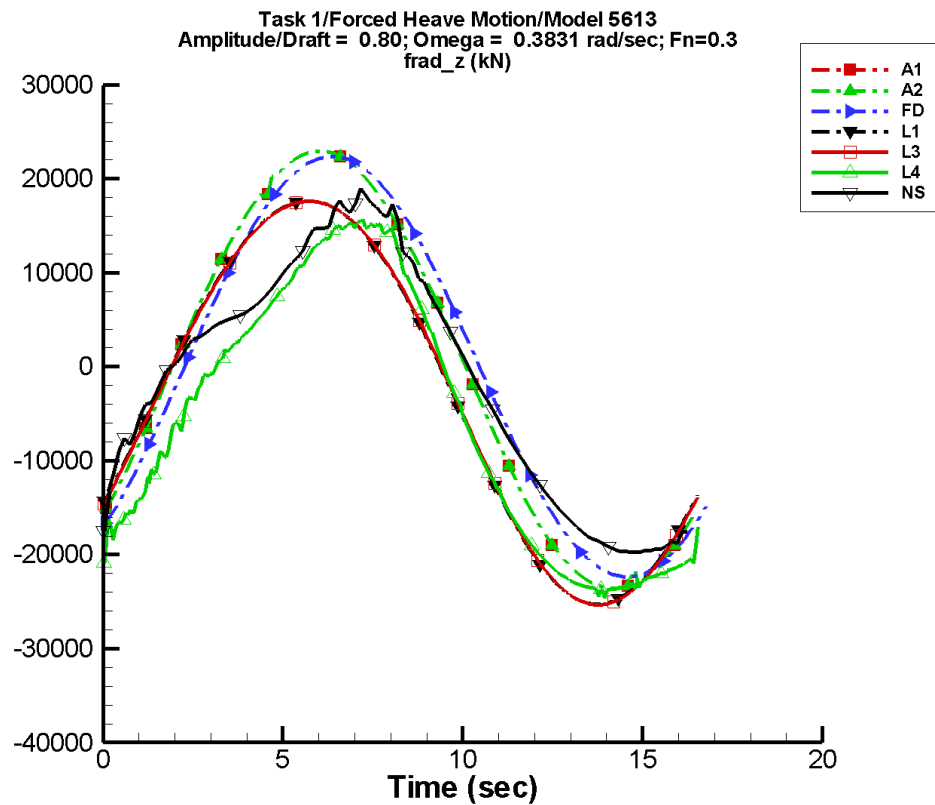
Table A-527. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-157.	1.16E+04	-42	55.8	8
A2	-157.	1.16E+04	-42	55.8	8
FD	-1.28E-03	1.12E+04	-50	1.35E-03	-88
L1	-3.64E+03	1.07E+04	-33	148.	59
L3	-3.64E+03	1.07E+04	-34	153.	55
L4	-4.56E+03	1.08E+04	-43	829.	110
NF	—	—	—	—	—
NS	-404.	9.76E+03	-48	431.	46

Table A-528. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.18E+04	1.15E+04	-1.17E+04	1.14E+04
A2	-1.18E+04	1.15E+04	-1.17E+04	1.14E+04
FD	-1.12E+04	1.12E+04	-1.12E+04	1.11E+04
L1	-1.45E+04	6.97E+03	-1.45E+04	6.95E+03
L3	-1.45E+04	6.97E+03	-1.45E+04	6.95E+03
L4	-1.52E+04	6.55E+03	-1.51E+04	6.47E+03
NF	—	—	—	—
NS	-1.05E+04	9.53E+03	-1.03E+04	9.15E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-265. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

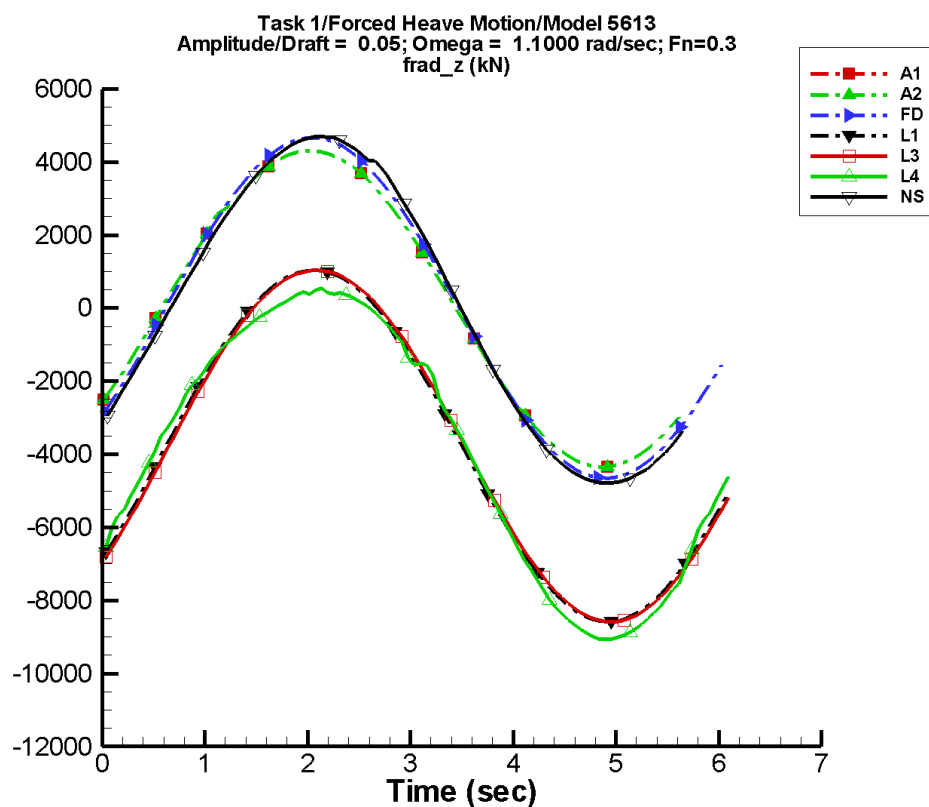
Table A-529. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-314.	2.33E+04	-42	112.	8
A2	-314.	2.33E+04	-42	112.	8
FD	-1.30E-03	2.24E+04	-50	1.72E-03	-112
L1	-3.35E+03	2.14E+04	-33	592.	59
L3	-3.36E+03	2.15E+04	-34	612.	55
L4	-5.98E+03	1.92E+04	-47	2.46E+03	111
NF	—	—	—	—	—
NS	-1.40E+03	1.74E+04	-49	2.07E+03	55

Table A-530. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.36E+04	2.29E+04	-2.35E+04	2.28E+04
A2	-2.36E+04	2.29E+04	-2.35E+04	2.28E+04
FD	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
L1	-2.53E+04	1.76E+04	-2.53E+04	1.76E+04
L3	-2.53E+04	1.76E+04	-2.53E+04	1.76E+04
L4	-2.46E+04	1.57E+04	-2.39E+04	1.52E+04
NF	—	—	—	—
NS	-1.98E+04	1.90E+04	-1.96E+04	1.75E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-266. Time history of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

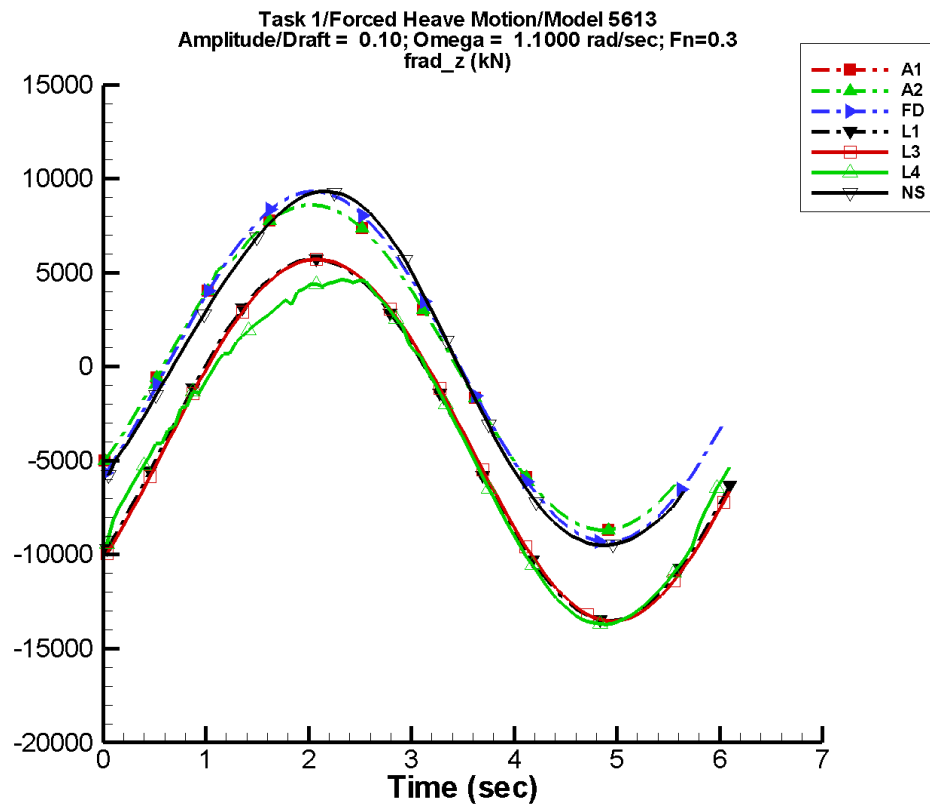
Table A-531. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.93	4.32E+03	-37	33.8	51
A2	-9.93	4.32E+03	-37	33.8	51
FD	-3.40E-05	4.66E+03	-39	1.16E-03	-19
L1	-3.74E+03	4.81E+03	-40	31.3	-10
L3	-3.74E+03	4.81E+03	-42	35.1	-12
L4	-3.86E+03	4.75E+03	-39	491.	22
NF	—	—	—	—	—
NS	-62.6	4.76E+03	-41	114.	105

Table A-532. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.34E+03	4.31E+03	-4.21E+03	4.17E+03
A2	-4.34E+03	4.31E+03	-4.21E+03	4.17E+03
FD	-4.66E+03	4.66E+03	-4.52E+03	4.53E+03
L1	-8.58E+03	1.03E+03	-8.52E+03	981.
L3	-8.59E+03	1.03E+03	-8.54E+03	982.
L4	-9.06E+03	547.	-8.98E+03	437.
NF	—	—	—	—
NS	-4.79E+03	4.69E+03	-4.75E+03	4.64E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-267. Time history of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

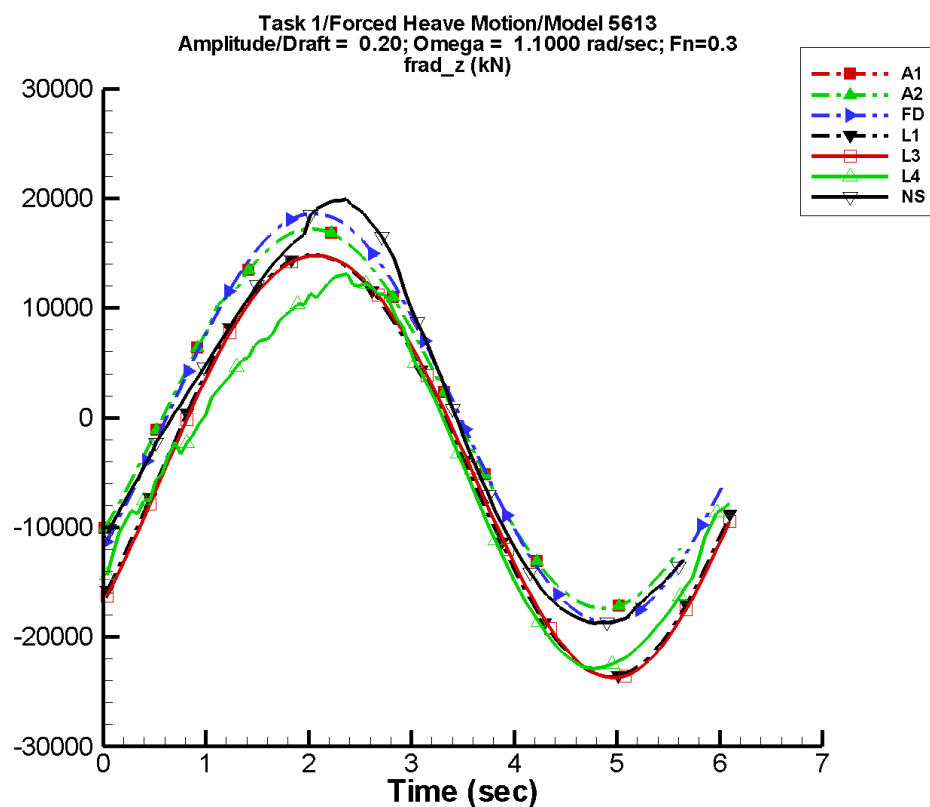
Table A–533. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-19.9	8.64E+03	-37	67.5	51
A2	-19.9	8.64E+03	-37	67.5	51
FD	1.02E-04	9.33E+03	-39	2.44E-03	-12
L1	-3.78E+03	9.62E+03	-40	125.	-10
L3	-3.78E+03	9.62E+03	-42	140.	-12
L4	-4.06E+03	9.03E+03	-40	907.	57
NF	—	—	—	—	—
NS	-244.	9.40E+03	-41	415.	115

Table A–534. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.68E+03	8.61E+03	-8.41E+03	8.34E+03
A2	-8.68E+03	8.61E+03	-8.41E+03	8.34E+03
FD	-9.33E+03	9.33E+03	-9.04E+03	9.06E+03
L1	-1.35E+04	5.72E+03	-1.34E+04	5.61E+03
L3	-1.35E+04	5.71E+03	-1.34E+04	5.61E+03
L4	-1.37E+04	4.68E+03	-1.36E+04	4.55E+03
NF	—	—	—	—
NS	-9.50E+03	9.35E+03	-9.42E+03	9.23E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-268. Time history of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

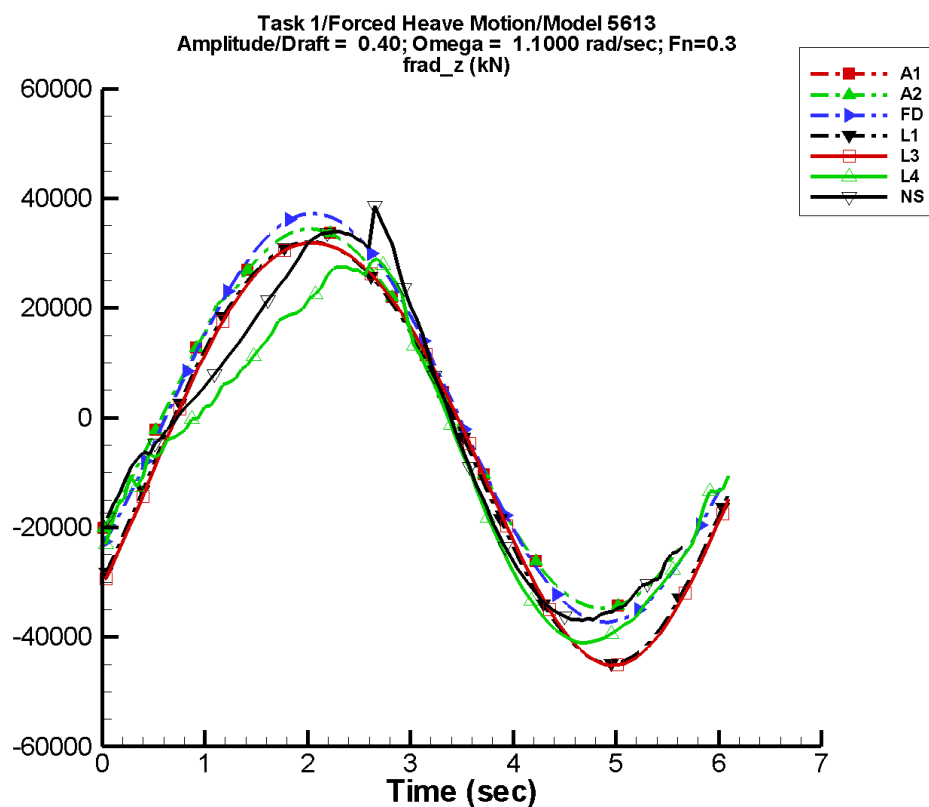
Table A–535. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-39.7	1.73E+04	-37	135.	51
A2	-39.7	1.73E+04	-37	135.	51
FD	-3.03E-04	1.87E+04	-39	4.44E-03	-25
L1	-3.93E+03	1.92E+04	-40	501.	-10
L3	-3.93E+03	1.92E+04	-42	561.	-12
L4	-4.72E+03	1.72E+04	-41	2.28E+03	79
NF	—	—	—	—	—
NS	-530.	1.86E+04	-41	1.98E+03	113

Table A–536. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.74E+04	1.72E+04	-1.68E+04	1.67E+04
A2	-1.74E+04	1.72E+04	-1.68E+04	1.67E+04
FD	-1.87E+04	1.87E+04	-1.81E+04	1.81E+04
L1	-2.36E+04	1.48E+04	-2.34E+04	1.46E+04
L3	-2.37E+04	1.48E+04	-2.35E+04	1.46E+04
L4	-2.28E+04	1.31E+04	-2.26E+04	1.24E+04
NF	—	—	—	—
NS	-1.87E+04	2.00E+04	-1.86E+04	1.96E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-269. Time history of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

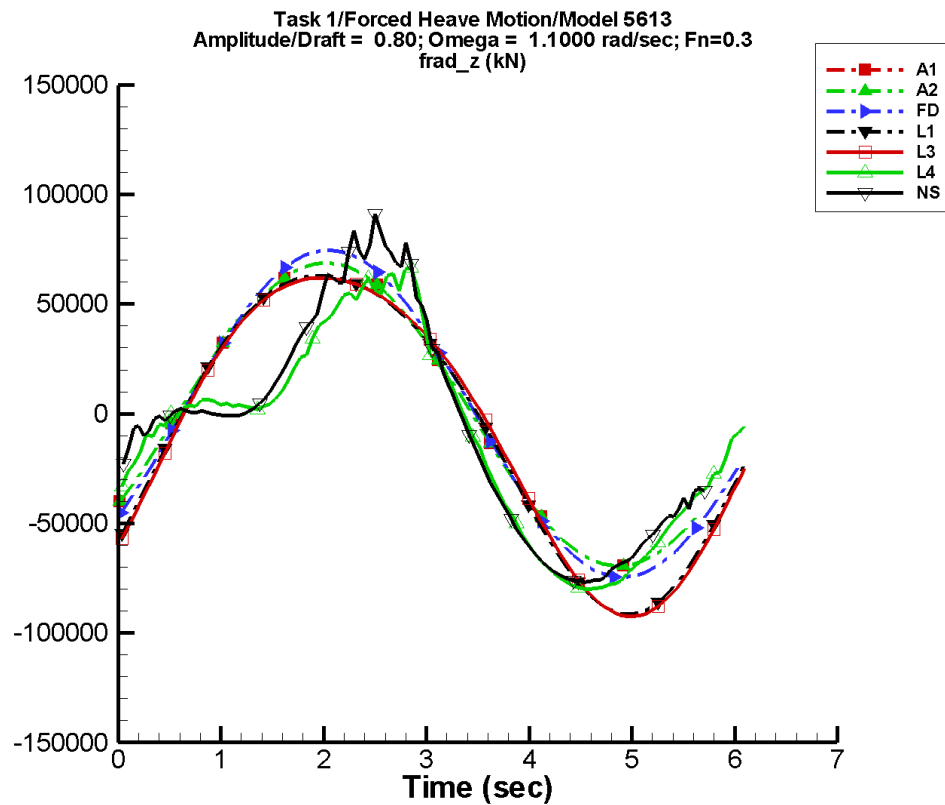
Table A–537. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-79.4	3.45E+04	-37	270.	51
A2	-79.4	3.45E+04	-37	270.	51
FD	-1.08E-03	3.73E+04	-39	9.18E-03	-16
L1	-4.52E+03	3.85E+04	-40	2.00E+03	-10
L3	-4.52E+03	3.85E+04	-42	2.25E+03	-12
L4	-6.51E+03	3.23E+04	-42	7.05E+03	85
NF	—	—	—	—	—
NS	-2.58E+03	3.42E+04	-41	6.45E+03	105

Table A–538. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.47E+04	3.44E+04	-3.37E+04	3.33E+04
A2	-3.47E+04	3.44E+04	-3.37E+04	3.33E+04
FD	-3.73E+04	3.73E+04	-3.62E+04	3.62E+04
L1	-4.49E+04	3.21E+04	-4.44E+04	3.17E+04
L3	-4.52E+04	3.19E+04	-4.46E+04	3.15E+04
L4	-4.10E+04	3.07E+04	-4.06E+04	2.77E+04
NF	—	—	—	—
NS	-3.69E+04	3.89E+04	-3.65E+04	3.39E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-270. Time history of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

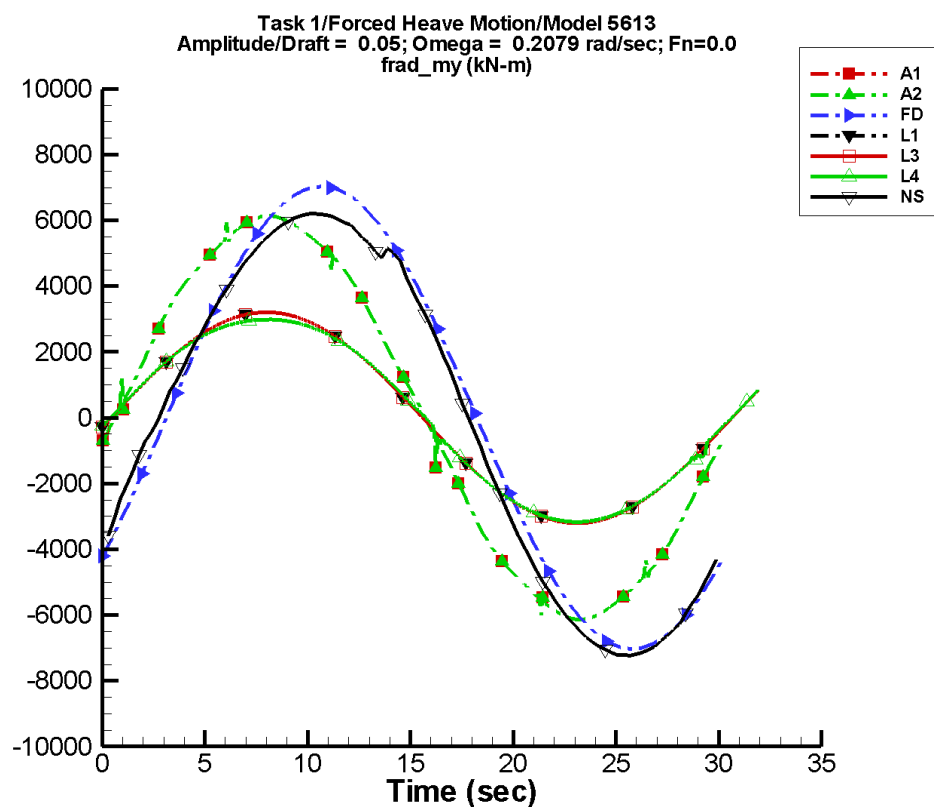
Table A–539. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-159.	6.91E+04	-37	540.	51
A2	-159.	6.91E+04	-37	540.	51
FD	-1.25E-03	7.46E+04	-39	2.19E-02	-18
L1	-6.88E+03	7.69E+04	-40	8.01E+03	-10
L3	-6.88E+03	7.70E+04	-42	8.98E+03	-12
L4	-1.06E+04	5.97E+04	-40	2.40E+04	86
NF	—	—	—	—	—
NS	-6.90E+03	6.24E+04	-40	2.59E+04	104

Table A–540. Minimum and maximum of F_z^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.95E+04	6.89E+04	-6.73E+04	6.67E+04
A2	-6.95E+04	6.89E+04	-6.73E+04	6.67E+04
FD	-7.46E+04	7.46E+04	-7.23E+04	7.25E+04
L1	-9.15E+04	6.28E+04	-9.03E+04	6.23E+04
L3	-9.25E+04	6.19E+04	-9.13E+04	6.14E+04
L4	-8.01E+04	6.90E+04	-7.91E+04	6.16E+04
NF	—	—	—	—
NS	-7.67E+04	9.13E+04	-7.58E+04	7.84E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-271. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

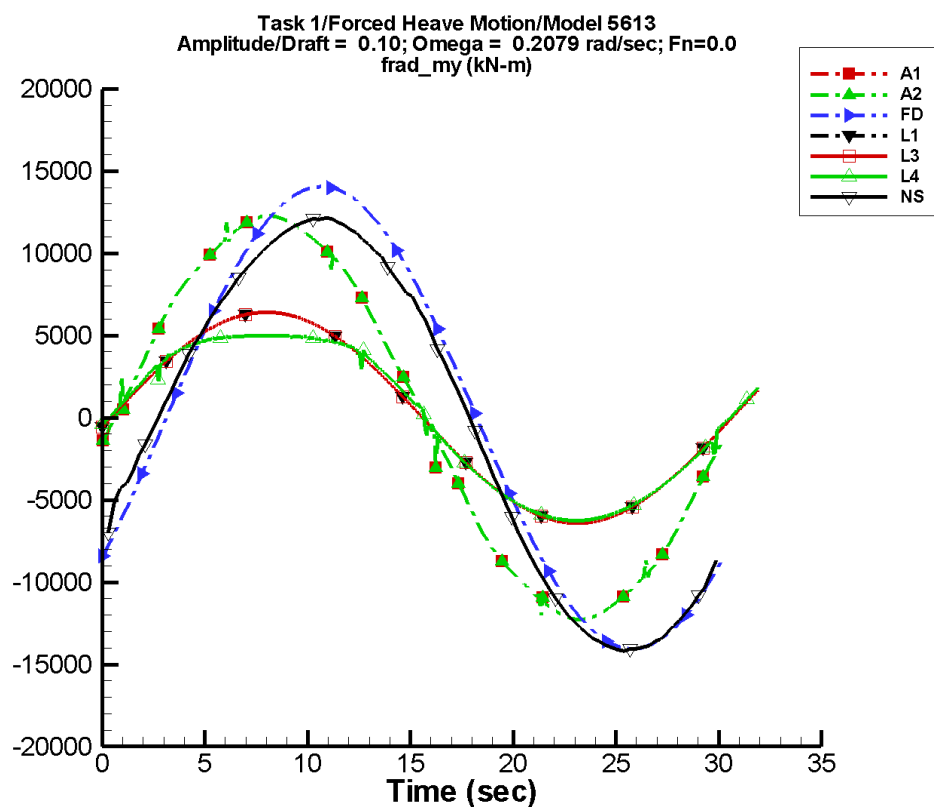
Table A-541. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.826	6.07E+03	-7	2.31	171
A2	-0.826	6.07E+03	-7	2.31	171
FD	-7.39E-04	7.03E+03	-37	7.26E-04	-90
L1	4.42	3.21E+03	-5	4.66	73
L3	4.42	3.21E+03	-5	4.66	73
L4	-19.8	3.13E+03	-5	69.4	81
NF	—	—	—	—	—
NS	-225.	6.79E+03	-34	296.	47

Table A-542. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.13E+03	6.14E+03	-6.12E+03	6.13E+03
A2	-6.13E+03	6.14E+03	-6.12E+03	6.13E+03
FD	-7.03E+03	7.03E+03	-7.02E+03	7.02E+03
L1	-3.21E+03	3.21E+03	-3.21E+03	3.20E+03
L3	-3.21E+03	3.21E+03	-3.21E+03	3.20E+03
L4	-3.17E+03	2.99E+03	-3.17E+03	2.99E+03
NF	—	—	—	—
NS	-7.23E+03	6.30E+03	-7.16E+03	6.24E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-272. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

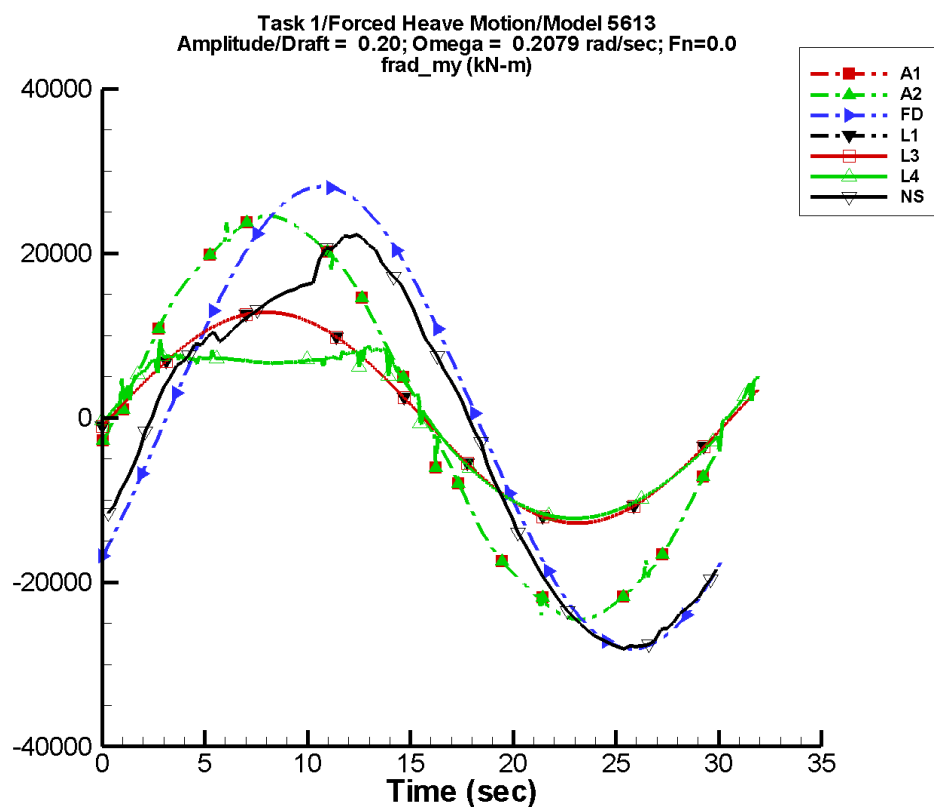
Table A-543. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.65	1.21E+04	-7	4.63	171
A2	-1.65	1.21E+04	-7	4.63	171
FD	-2.21E-03	1.41E+04	-37	1.99E-03	-125
L1	17.7	6.41E+03	-5	18.6	73
L3	17.7	6.41E+03	-5	18.6	73
L4	-147.	5.95E+03	-6	471.	79
NF	—	—	—	—	—
NS	-522.	1.32E+04	-33	600.	40

Table A-544. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.23E+04	1.23E+04	-1.22E+04	1.23E+04
A2	-1.23E+04	1.23E+04	-1.22E+04	1.23E+04
FD	-1.41E+04	1.41E+04	-1.40E+04	1.40E+04
L1	-6.41E+03	6.41E+03	-6.41E+03	6.41E+03
L3	-6.41E+03	6.41E+03	-6.41E+03	6.41E+03
L4	-6.25E+03	4.99E+03	-6.25E+03	4.99E+03
NF	—	—	—	—
NS	-1.42E+04	1.23E+04	-1.40E+04	1.22E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-273. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

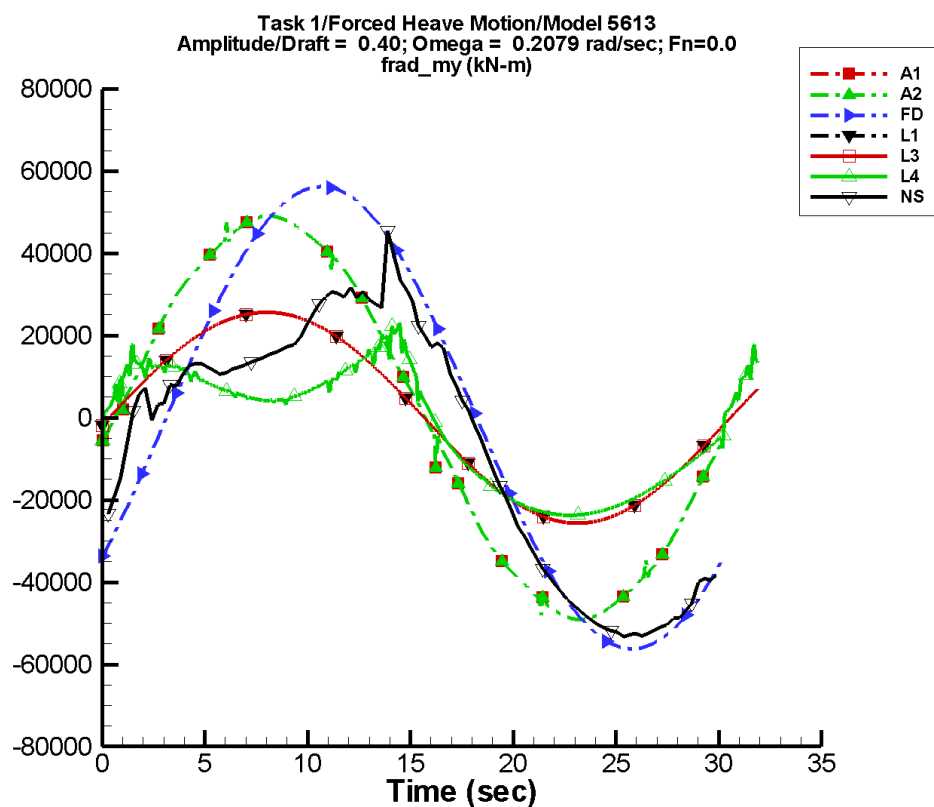
Table A–545. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.30	2.43E+04	-7	9.25	171
A2	-3.30	2.43E+04	-7	9.25	171
FD	-3.90E-03	2.81E+04	-37	3.92E-03	-135
L1	70.7	1.28E+04	-5	74.6	73
L3	70.7	1.28E+04	-5	74.6	73
L4	-709.	1.06E+04	-6	2.29E+03	79
NF	—	—	—	—	—
NS	-2.27E+03	2.39E+04	-34	2.98E+03	55

Table A–546. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.45E+04	2.46E+04	-2.45E+04	2.45E+04
A2	-2.45E+04	2.46E+04	-2.45E+04	2.45E+04
FD	-2.81E+04	2.81E+04	-2.81E+04	2.81E+04
L1	-1.28E+04	1.28E+04	-1.28E+04	1.28E+04
L3	-1.28E+04	1.28E+04	-1.28E+04	1.28E+04
L4	-1.22E+04	9.57E+03	-1.22E+04	8.36E+03
NF	—	—	—	—
NS	-2.81E+04	2.26E+04	-2.77E+04	2.17E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-274. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

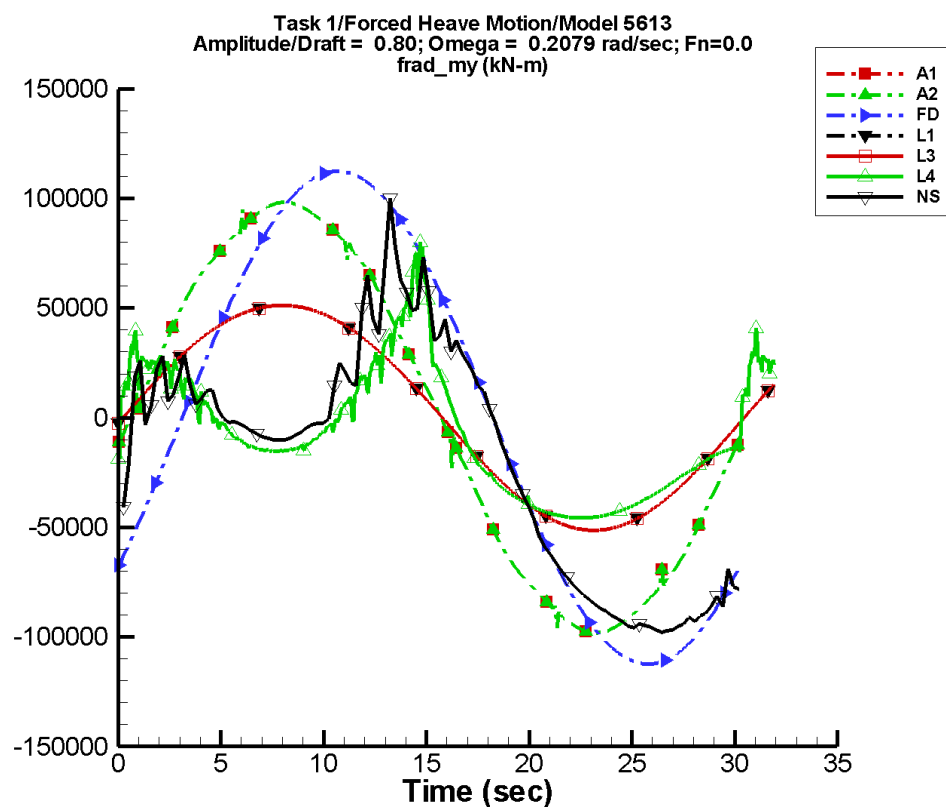
Table A–547. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.60	4.86E+04	-7	18.5	171
A2	-6.60	4.86E+04	-7	18.5	171
FD	-8.37E-03	5.62E+04	-37	6.45E-03	-134
L1	283.	2.56E+04	-5	298.	73
L3	283.	2.56E+04	-5	298.	73
L4	-2.60E+03	1.73E+04	-7	8.38E+03	80
NF	—	—	—	—	—
NS	-6.64E+03	4.08E+04	-37	9.97E+03	52

Table A–548. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.91E+04	4.91E+04	-4.90E+04	4.90E+04
A2	-4.91E+04	4.91E+04	-4.90E+04	4.90E+04
FD	-5.62E+04	5.62E+04	-5.61E+04	5.61E+04
L1	-2.57E+04	2.56E+04	-2.57E+04	2.56E+04
L3	-2.57E+04	2.56E+04	-2.57E+04	2.56E+04
L4	-2.37E+04	2.31E+04	-2.37E+04	2.09E+04
NF	—	—	—	—
NS	-5.33E+04	4.62E+04	-5.26E+04	3.33E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-275. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

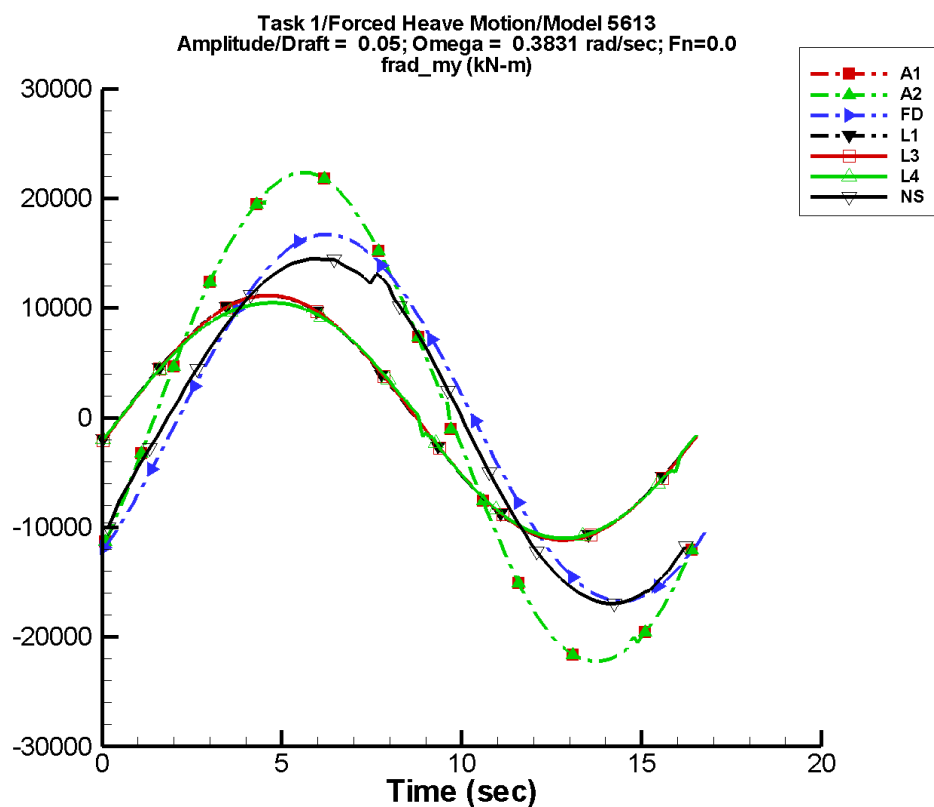
Table A–549. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-13.2	9.72E+04	-7	37.0	171
A2	-13.2	9.72E+04	-7	37.0	171
FD	-2.12E-02	1.12E+05	-37	9.60E-03	-88
L1	1.13E+03	5.13E+04	-5	1.19E+03	73
L3	1.13E+03	5.13E+04	-5	1.19E+03	73
L4	-8.23E+03	2.39E+04	-14	2.75E+04	86
NF	—	—	—	—	—
NS	-1.86E+04	6.22E+04	-42	3.22E+04	56

Table A–550. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.82E+04	9.82E+04	-9.80E+04	9.81E+04
A2	-9.82E+04	9.82E+04	-9.80E+04	9.81E+04
FD	-1.12E+05	1.12E+05	-1.12E+05	1.12E+05
L1	-5.14E+04	5.12E+04	-5.13E+04	5.12E+04
L3	-5.14E+04	5.12E+04	-5.13E+04	5.12E+04
L4	-4.57E+04	8.01E+04	-4.57E+04	7.09E+04
NF	—	—	—	—
NS	-9.79E+04	1.01E+05	-9.64E+04	6.63E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-276. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

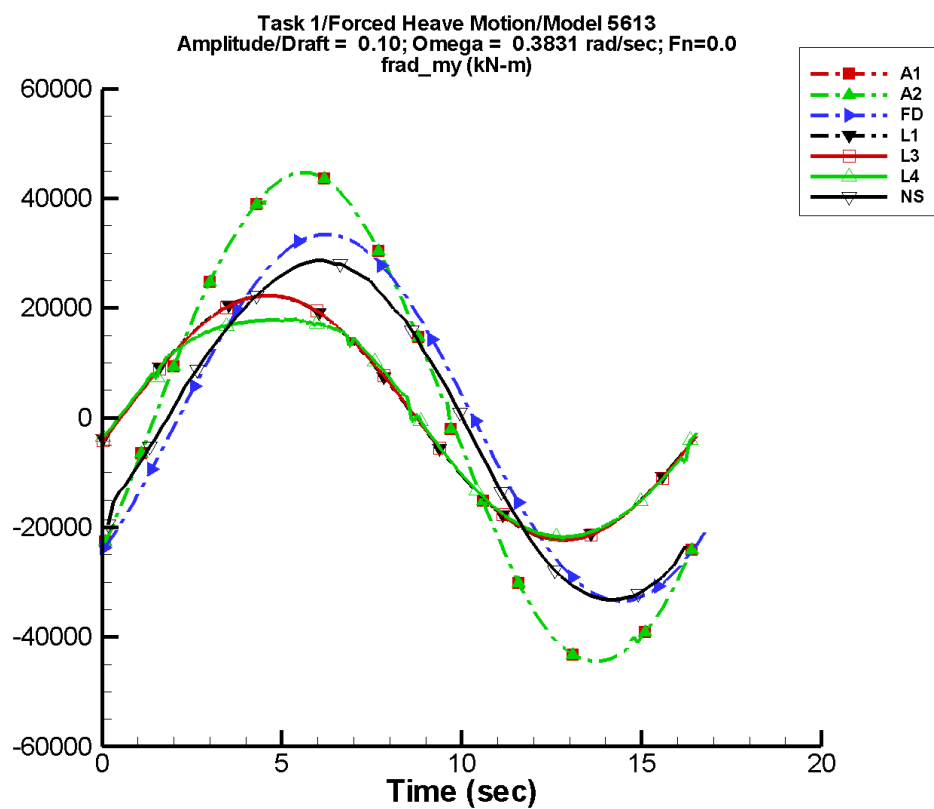
Table A–551. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.98	2.23E+04	-32	58.8	30
A2	-8.98	2.23E+04	-32	58.8	30
FD	-8.92E-04	1.67E+04	-47	8.95E-04	42
L1	11.6	1.12E+04	-11	14.1	69
L3	11.6	1.12E+04	-12	15.0	60
L4	-60.5	1.09E+04	-12	197.	88
NF	—	—	—	—	—
NS	-594.	1.59E+04	-41	701.	39

Table A–552. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.22E+04	2.24E+04	-2.22E+04	2.23E+04
A2	-2.22E+04	2.24E+04	-2.22E+04	2.23E+04
FD	-1.67E+04	1.67E+04	-1.67E+04	1.67E+04
L1	-1.12E+04	1.12E+04	-1.11E+04	1.11E+04
L3	-1.12E+04	1.12E+04	-1.11E+04	1.11E+04
L4	-1.10E+04	1.05E+04	-1.10E+04	1.05E+04
NF	—	—	—	—
NS	-1.69E+04	1.46E+04	-1.68E+04	1.44E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-277. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

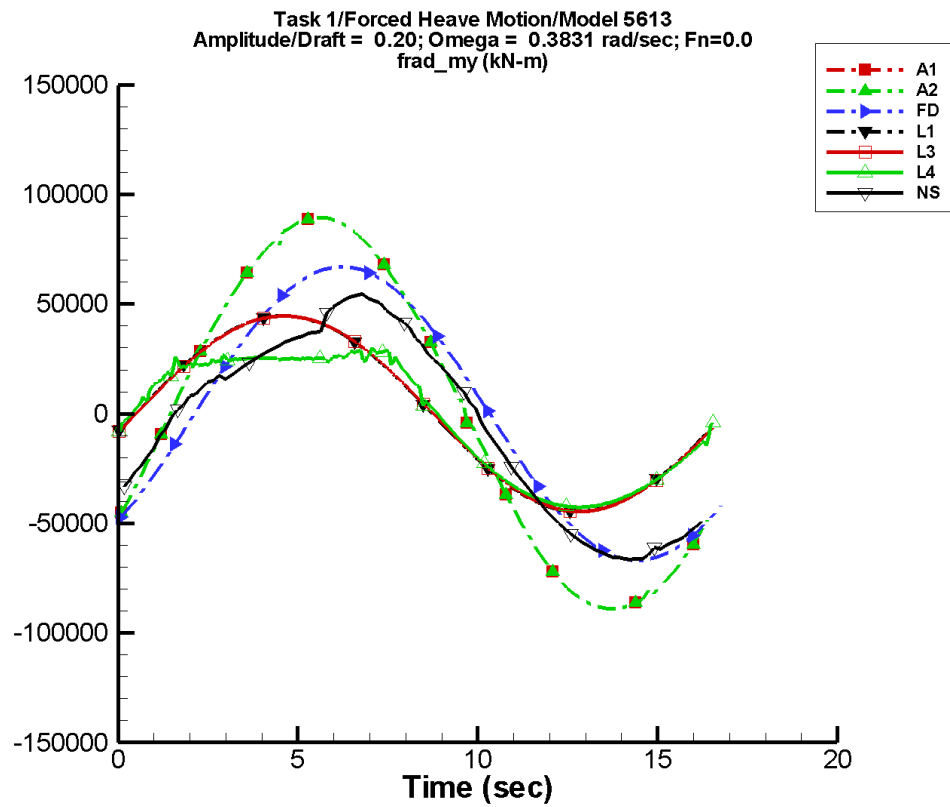
Table A-553. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-18.0	4.46E+04	-32	118.	30
A2	-18.0	4.46E+04	-32	118.	30
FD	-3.54E-03	3.35E+04	-47	2.26E-03	-57
L1	46.4	2.23E+04	-11	56.4	69
L3	46.4	2.23E+04	-12	60.1	60
L4	-484.	2.06E+04	-12	1.33E+03	79
NF	—	—	—	—	—
NS	-1.31E+03	3.09E+04	-40	1.42E+03	34

Table A-554. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.44E+04	4.48E+04	-4.43E+04	4.46E+04
A2	-4.44E+04	4.48E+04	-4.43E+04	4.46E+04
FD	-3.35E+04	3.35E+04	-3.35E+04	3.33E+04
L1	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L3	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L4	-2.17E+04	1.81E+04	-2.17E+04	1.79E+04
NF	—	—	—	—
NS	-3.32E+04	2.89E+04	-3.29E+04	2.84E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-278. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

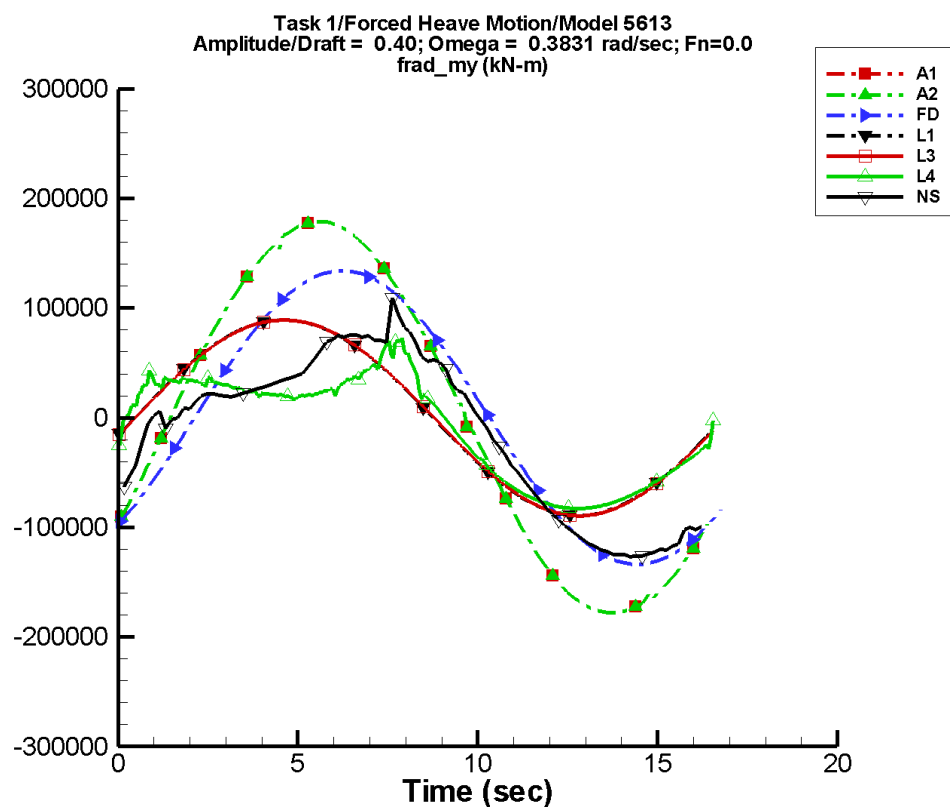
Table A–555. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-35.9	8.92E+04	-32	235.	30
A2	-35.9	8.92E+04	-32	235.	30
FD	-5.22E-03	6.70E+04	-47	3.20E-03	-47
L1	186.	4.46E+04	-11	225.	69
L3	186.	4.46E+04	-12	240.	60
L4	-2.30E+03	3.69E+04	-12	6.73E+03	75
NF	—	—	—	—	—
NS	-5.48E+03	5.63E+04	-41	6.97E+03	50

Table A–556. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.89E+04	8.95E+04	-8.86E+04	8.92E+04
A2	-8.89E+04	8.95E+04	-8.86E+04	8.92E+04
FD	-6.69E+04	6.69E+04	-6.69E+04	6.67E+04
L1	-4.47E+04	4.46E+04	-4.46E+04	4.45E+04
L3	-4.47E+04	4.46E+04	-4.46E+04	4.45E+04
L4	-4.26E+04	3.02E+04	-4.26E+04	2.83E+04
NF	—	—	—	—
NS	-6.65E+04	5.48E+04	-6.54E+04	5.22E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-279. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

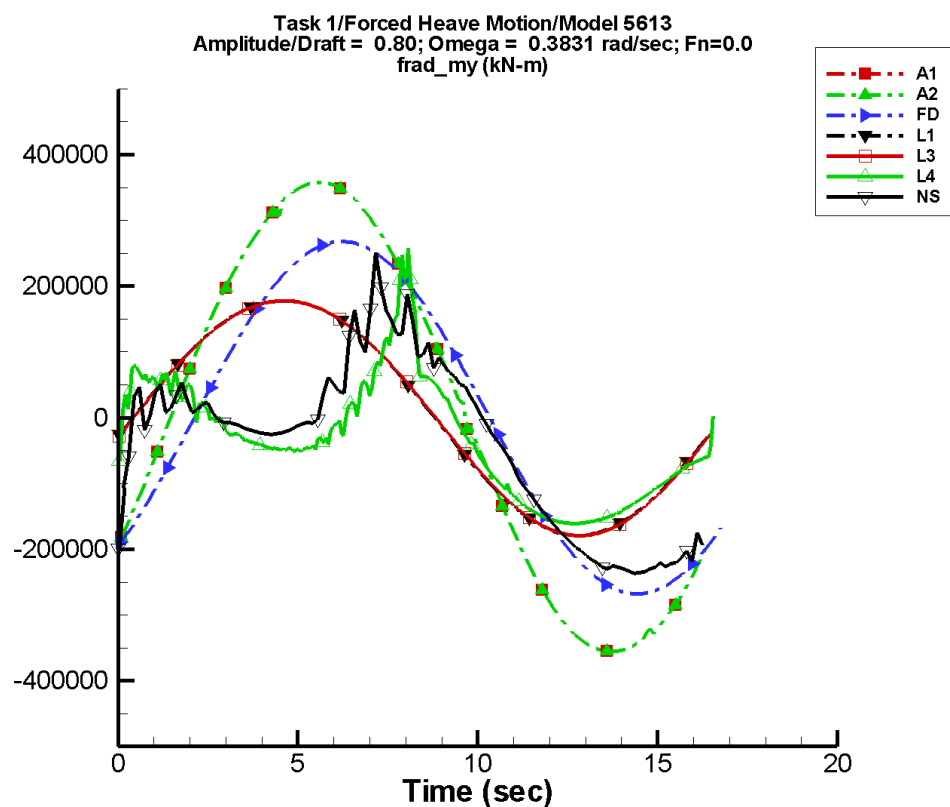
Table A–557. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-71.8	1.78E+05	-32	470.	30
A2	-71.8	1.78E+05	-32	470.	30
FD	-1.02E-02	1.34E+05	-47	3.81E-03	-57
L1	745.	8.92E+04	-11	902.	69
L3	745.	8.92E+04	-12	962.	60
L4	-8.80E+03	5.98E+04	-15	2.54E+04	74
NF	—	—	—	—	—
NS	-1.51E+04	9.64E+04	-43	2.33E+04	45

Table A–558. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.78E+05	1.79E+05	-1.77E+05	1.78E+05
A2	-1.78E+05	1.79E+05	-1.77E+05	1.78E+05
FD	-1.34E+05	1.34E+05	-1.34E+05	1.33E+05
L1	-8.94E+04	8.91E+04	-8.93E+04	8.90E+04
L3	-8.95E+04	8.90E+04	-8.93E+04	8.89E+04
L4	-8.28E+04	7.37E+04	-8.27E+04	6.62E+04
NF	—	—	—	—
NS	-1.27E+05	1.09E+05	-1.25E+05	8.02E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-280. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

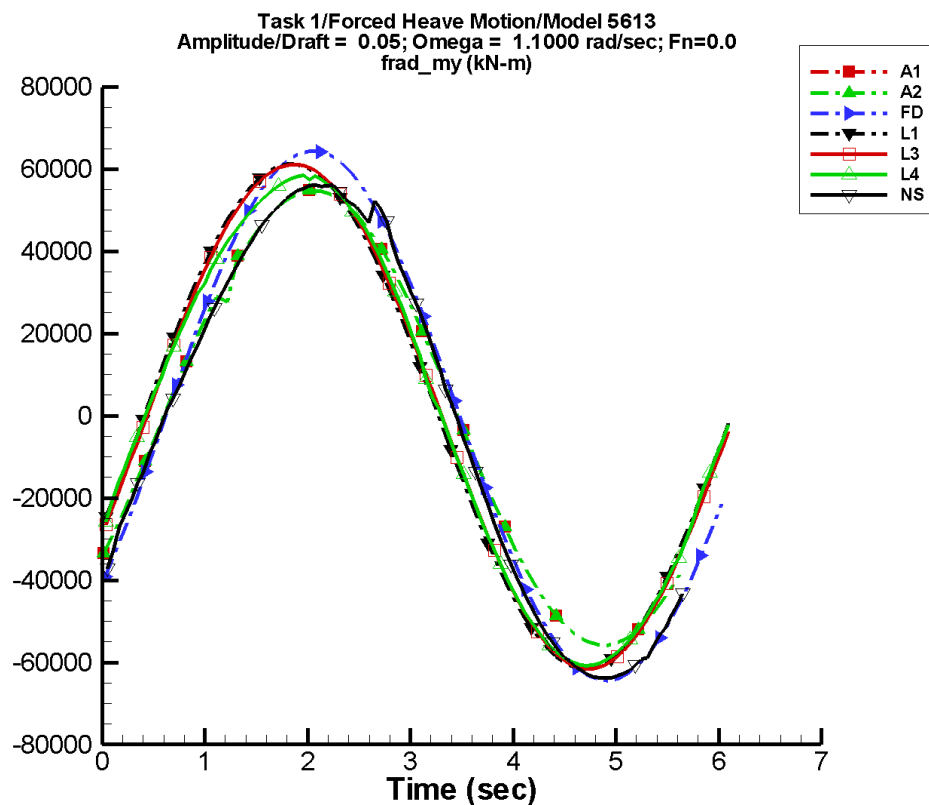
Table A–559. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-144.	3.57E+05	-32	940.	30
A2	-144.	3.57E+05	-32	940.	30
FD	-1.82E-02	2.68E+05	-47	1.29E-02	-58
L1	2.98E+03	1.78E+05	-11	3.61E+03	70
L3	2.98E+03	1.78E+05	-12	3.85E+03	60
L4	-3.18E+04	7.67E+04	-25	8.66E+04	75
NF	—	—	—	—	—
NS	-4.03E+04	1.50E+05	-48	7.53E+04	51

Table A–560. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.56E+05	3.58E+05	-3.54E+05	3.57E+05
A2	-3.56E+05	3.58E+05	-3.54E+05	3.57E+05
FD	-2.68E+05	2.68E+05	-2.68E+05	2.67E+05
L1	-1.79E+05	1.78E+05	-1.79E+05	1.78E+05
L3	-1.79E+05	1.78E+05	-1.79E+05	1.77E+05
L4	-1.61E+05	2.63E+05	-1.61E+05	2.10E+05
NF	—	—	—	—
NS	-2.37E+05	2.51E+05	-2.33E+05	1.67E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-281. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

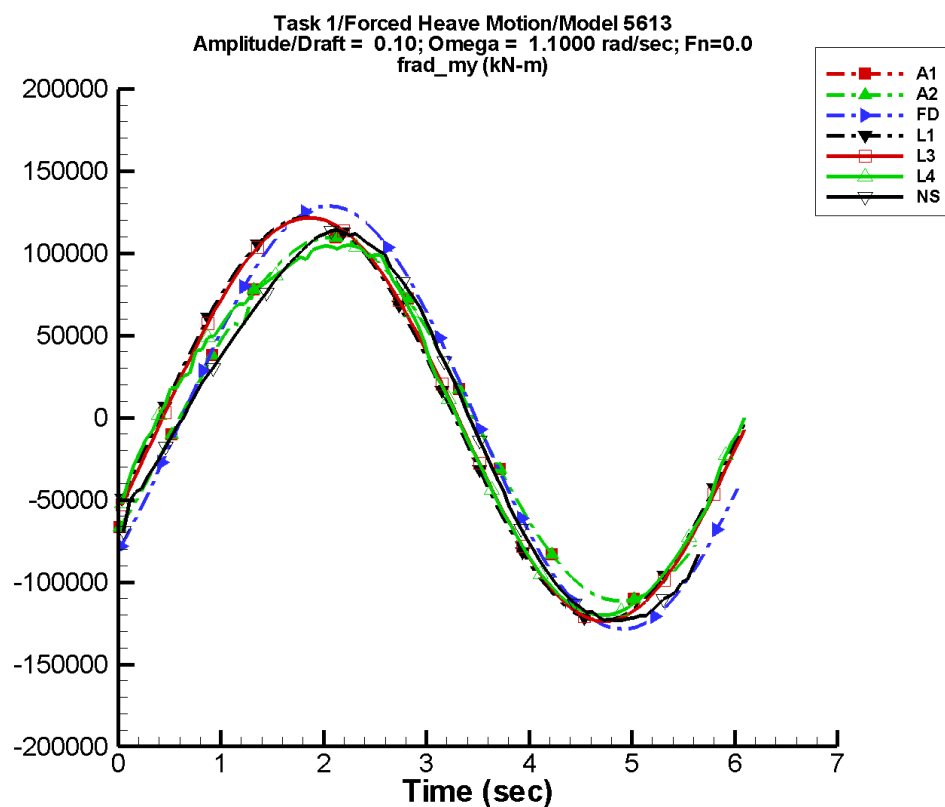
Table A-561. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-419.	5.51E+04	-38	810.	80
A2	-419.	5.51E+04	-38	810.	80
FD	-3.39E-03	6.44E+04	-39	1.47E-02	12
L1	16.4	6.14E+04	-26	266.	18
L3	16.4	6.14E+04	-28	321.	12
L4	-305.	5.96E+04	-28	2.04E+03	82
NF	—	—	—	—	—
NS	-2.58E+03	6.05E+04	-39	2.69E+03	67

Table A-562. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.58E+04	5.47E+04	-5.41E+04	5.31E+04
A2	-5.58E+04	5.47E+04	-5.41E+04	5.31E+04
FD	-6.44E+04	6.44E+04	-6.24E+04	6.26E+04
L1	-6.16E+04	6.12E+04	-6.09E+04	6.05E+04
L3	-6.16E+04	6.11E+04	-6.09E+04	6.04E+04
L4	-6.07E+04	5.85E+04	-6.01E+04	5.76E+04
NF	—	—	—	—
NS	-6.38E+04	5.62E+04	-6.33E+04	5.55E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-282. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

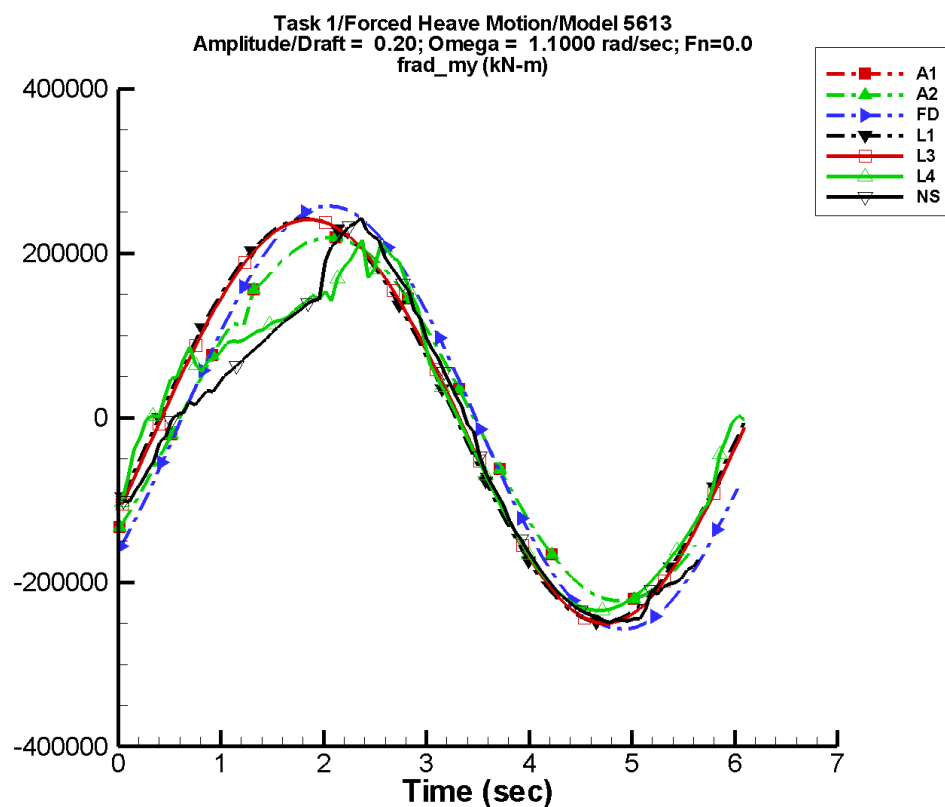
Table A–563. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-838.	1.10E+05	-38	1.62E+03	80
A2	-838.	1.10E+05	-38	1.62E+03	80
FD	-7.79E-03	1.29E+05	-39	2.76E-02	9
L1	65.4	1.23E+05	-26	1.06E+03	18
L3	65.4	1.23E+05	-28	1.28E+03	12
L4	-2.83E+03	1.13E+05	-29	1.07E+04	79
NF	—	—	—	—	—
NS	-5.89E+03	1.17E+05	-39	6.80E+03	91

Table A–564. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.12E+05	1.09E+05	-1.08E+05	1.06E+05
A2	-1.12E+05	1.09E+05	-1.08E+05	1.06E+05
FD	-1.29E+05	1.29E+05	-1.25E+05	1.25E+05
L1	-1.24E+05	1.22E+05	-1.22E+05	1.21E+05
L3	-1.24E+05	1.22E+05	-1.22E+05	1.20E+05
L4	-1.20E+05	1.05E+05	-1.19E+05	1.04E+05
NF	—	—	—	—
NS	-1.23E+05	1.15E+05	-1.22E+05	1.12E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-283. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

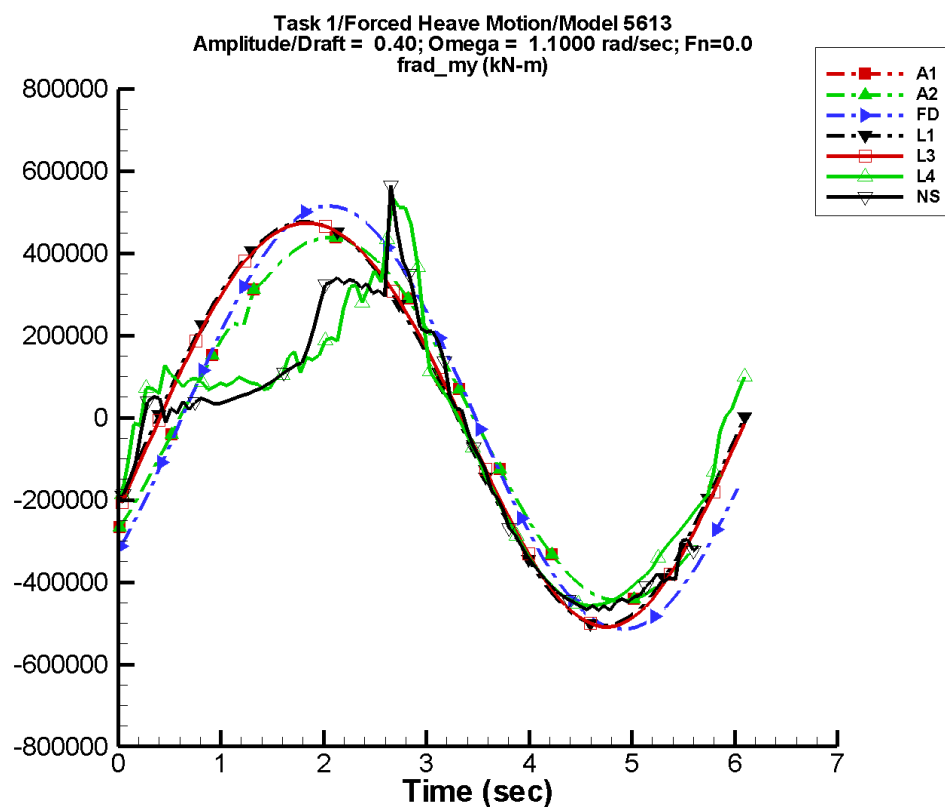
Table A-565. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.68E+03	2.20E+05	-38	3.24E+03	80
A2	-1.68E+03	2.20E+05	-38	3.24E+03	80
FD	-2.72E-02	2.58E+05	-39	5.80E-02	4
L1	261.	2.46E+05	-26	4.21E+03	18
L3	262.	2.45E+05	-28	5.10E+03	12
L4	-1.18E+04	2.04E+05	-31	4.61E+04	75
NF	—	—	—	—	—
NS	-2.38E+04	2.17E+05	-39	3.42E+04	92

Table A-566. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.23E+05	2.19E+05	-2.16E+05	2.12E+05
A2	-2.23E+05	2.19E+05	-2.16E+05	2.12E+05
FD	-2.58E+05	2.58E+05	-2.50E+05	2.50E+05
L1	-2.49E+05	2.42E+05	-2.46E+05	2.39E+05
L3	-2.50E+05	2.41E+05	-2.47E+05	2.38E+05
L4	-2.35E+05	2.16E+05	-2.32E+05	1.97E+05
NF	—	—	—	—
NS	-2.49E+05	2.43E+05	-2.46E+05	2.27E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-284. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

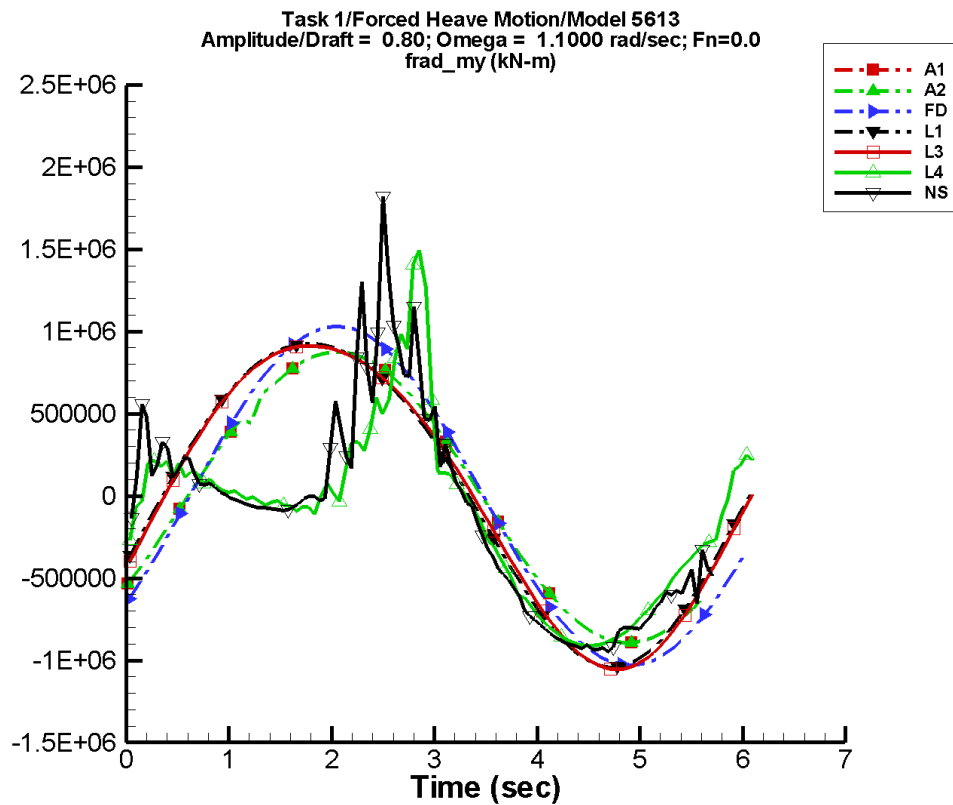
Table A-567. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.35E+03	4.41E+05	-38	6.48E+03	80
A2	-3.35E+03	4.41E+05	-38	6.48E+03	80
FD	-4.37E-02	5.15E+05	-39	9.13E-02	8
L1	1.05E+03	4.91E+05	-26	1.68E+04	18
L3	1.05E+03	4.91E+05	-28	2.04E+04	12
L4	-3.78E+04	3.51E+05	-35	1.60E+05	75
NF	—	—	—	—	—
NS	-6.02E+04	3.71E+05	-38	1.15E+05	82

Table A-568. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.46E+05	4.38E+05	-4.33E+05	4.24E+05
A2	-4.46E+05	4.38E+05	-4.33E+05	4.24E+05
FD	-5.15E+05	5.15E+05	-4.99E+05	5.01E+05
L1	-5.06E+05	4.77E+05	-5.00E+05	4.72E+05
L3	-5.09E+05	4.73E+05	-5.02E+05	4.69E+05
L4	-4.57E+05	5.84E+05	-4.52E+05	4.43E+05
NF	—	—	—	—
NS	-4.71E+05	5.65E+05	-4.62E+05	3.69E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-285. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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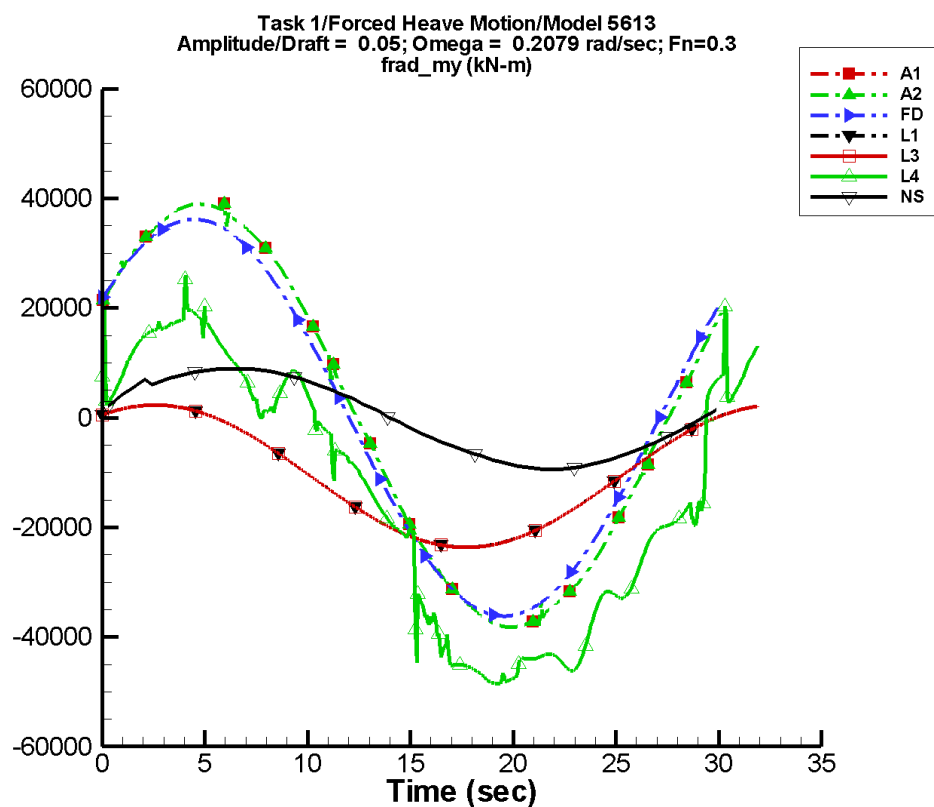
Table A-569. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.71E+03	8.81E+05	-38	1.30E+04	80
A2	-6.71E+03	8.81E+05	-38	1.30E+04	80
FD	-5.29E-02	1.03E+06	-39	0.158	6
L1	4.18E+03	9.82E+05	-26	6.72E+04	18
L3	4.18E+03	9.82E+05	-28	8.14E+04	13
L4	-1.12E+05	5.69E+05	-38	4.62E+05	74
NF	—	—	—	—	—
NS	-1.09E+05	6.46E+05	-35	4.20E+05	88

Table A-570. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.93E+05	8.76E+05	-8.65E+05	8.49E+05
A2	-8.93E+05	8.76E+05	-8.65E+05	8.49E+05
FD	-1.03E+06	1.03E+06	-9.99E+05	1.00E+06
L1	-1.04E+06	9.24E+05	-1.03E+06	9.16E+05
L3	-1.05E+06	9.13E+05	-1.04E+06	9.05E+05
L4	-9.11E+05	1.57E+06	-8.98E+05	1.25E+06
NF	—	—	—	—
NS	-9.50E+05	1.83E+06	-9.26E+05	1.10E+06

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

Figure A-286. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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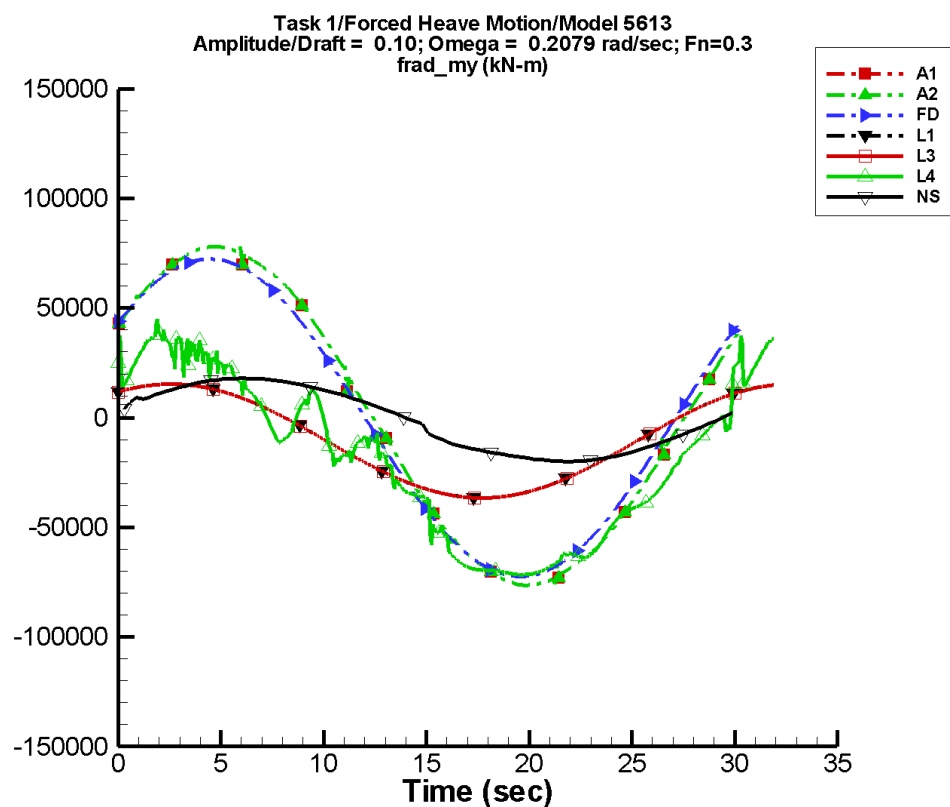
Table A-571. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-36.7	3.81E+04	32	126.	-44
A2	-36.7	3.81E+04	32	126.	-44
FD	1.39E-03	3.62E+04	37	4.96E-03	123
L1	-1.07E+04	1.30E+04	59	13.2	99
L3	-1.07E+04	1.30E+04	59	13.2	99
L4	-1.50E+04	3.18E+04	29	2.74E+03	88
NF	—	—	—	—	—
NS	-242.	9.53E+03	11	375.	27

Table A-572. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.82E+04	3.91E+04	-3.81E+04	3.89E+04
A2	-3.82E+04	3.91E+04	-3.81E+04	3.89E+04
FD	-3.62E+04	3.62E+04	-3.61E+04	3.61E+04
L1	-2.36E+04	2.32E+03	-2.36E+04	2.31E+03
L3	-2.36E+04	2.31E+03	-2.36E+04	2.30E+03
L4	-4.85E+04	2.59E+04	-4.84E+04	2.08E+04
NF	—	—	—	—
NS	-1.02E+04	9.20E+03	-1.01E+04	9.13E+03

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-287. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

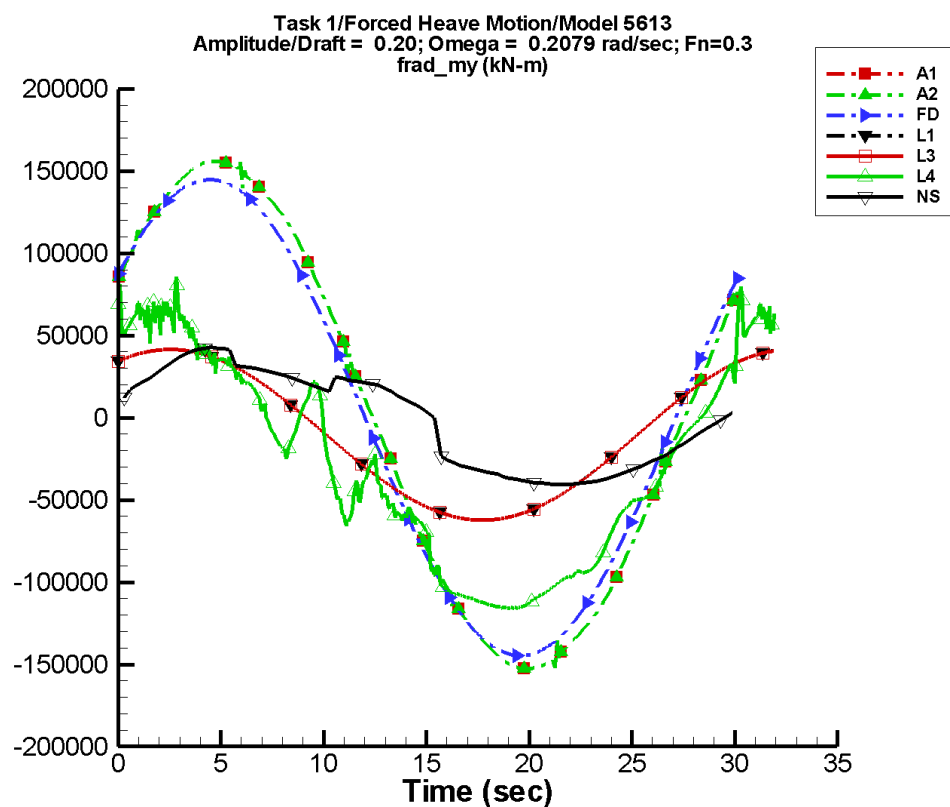
Table A-573. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-73.4	7.62E+04	32	251.	-44
A2	-73.4	7.62E+04	32	251.	-44
FD	5.51E-04	7.24E+04	37	8.12E-03	136
L1	-1.06E+04	2.60E+04	59	52.9	99
L3	-1.06E+04	2.60E+04	59	53.0	99
L4	-2.06E+04	4.84E+04	39	8.82E+03	90
NF	—	—	—	—	—
NS	-1.42E+03	1.98E+04	13	349.	6

Table A-574. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.64E+04	7.82E+04	-7.63E+04	7.79E+04
A2	-7.64E+04	7.82E+04	-7.63E+04	7.79E+04
FD	-7.24E+04	7.24E+04	-7.23E+04	7.23E+04
L1	-3.66E+04	1.54E+04	-3.65E+04	1.53E+04
L3	-3.66E+04	1.53E+04	-3.66E+04	1.53E+04
L4	-7.16E+04	4.48E+04	-7.15E+04	3.94E+04
NF	—	—	—	—
NS	-2.15E+04	1.84E+04	-2.13E+04	1.82E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-288. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

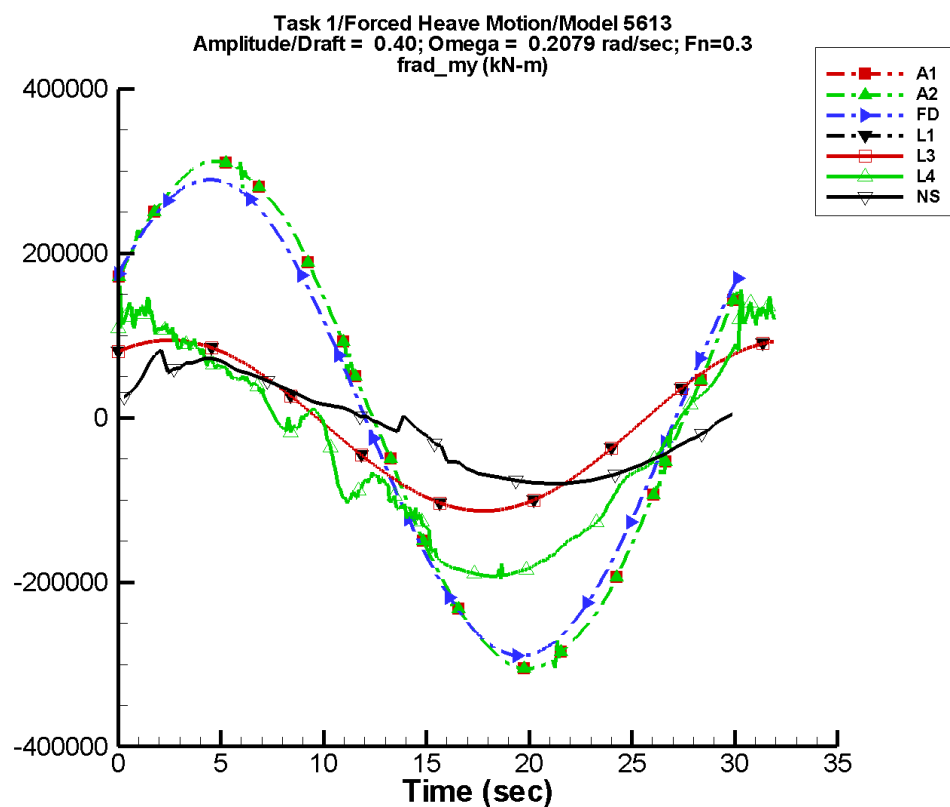
Table A-575. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-147.	1.52E+05	32	503.	-44
A2	-147.	1.52E+05	32	503.	-44
FD	4.71E-03	1.45E+05	37	1.64E-02	126
L1	-1.05E+04	5.19E+04	59	212.	99
L3	-1.05E+04	5.19E+04	59	212.	99
L4	-3.14E+04	8.13E+04	49	1.43E+04	89
NF	—	—	—	—	—
NS	-1.75E+03	4.08E+04	12	4.47E+03	70

Table A-576. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.53E+05	1.56E+05	-1.53E+05	1.56E+05
A2	-1.53E+05	1.56E+05	-1.53E+05	1.56E+05
FD	-1.45E+05	1.45E+05	-1.45E+05	1.45E+05
L1	-6.23E+04	4.15E+04	-6.23E+04	4.15E+04
L3	-6.23E+04	4.15E+04	-6.23E+04	4.15E+04
L4	-1.16E+05	8.61E+04	-1.16E+05	6.84E+04
NF	—	—	—	—
NS	-4.39E+04	4.49E+04	-4.35E+04	4.28E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-289. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

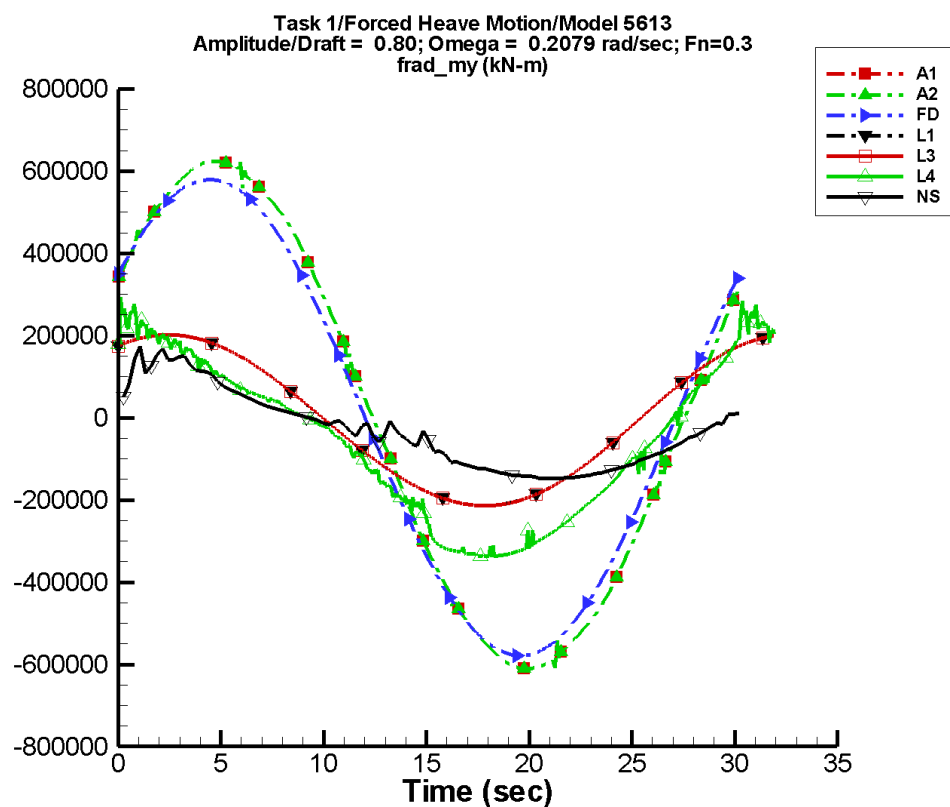
Table A-577. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-294.	3.05E+05	32	1.01E+03	-44
A2	-294.	3.05E+05	32	1.01E+03	-44
FD	5.79E-03	2.90E+05	37	3.50E-02	144
L1	-9.83E+03	1.04E+05	59	848.	99
L3	-9.84E+03	1.04E+05	59	848.	99
L4	-4.59E+04	1.43E+05	55	2.02E+04	98
NF	—	—	—	—	—
NS	-1.25E+04	7.34E+04	22	1.23E+04	34

Table A-578. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.06E+05	3.13E+05	-3.05E+05	3.11E+05
A2	-3.06E+05	3.13E+05	-3.05E+05	3.11E+05
FD	-2.90E+05	2.90E+05	-2.89E+05	2.89E+05
L1	-1.13E+05	9.43E+04	-1.13E+05	9.42E+04
L3	-1.13E+05	9.43E+04	-1.13E+05	9.42E+04
L4	-1.96E+05	1.56E+05	-1.93E+05	1.33E+05
NF	—	—	—	—
NS	-8.64E+04	8.64E+04	-8.56E+04	6.97E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-290. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

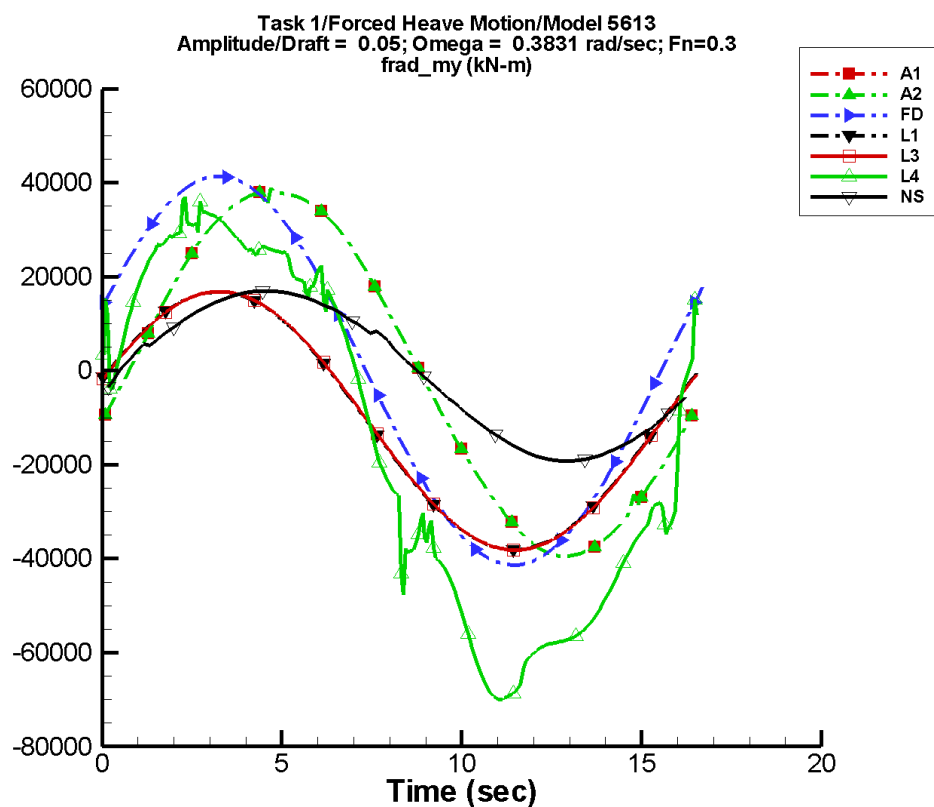
Table A–579. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-587.	6.09E+05	32	2.01E+03	-44
A2	-587.	6.09E+05	32	2.01E+03	-44
FD	7.94E-03	5.79E+05	37	9.26E-02	120
L1	-7.29E+03	2.08E+05	59	3.39E+03	99
L3	-7.30E+03	2.08E+05	59	3.39E+03	99
L4	-6.60E+04	2.52E+05	56	4.02E+04	125
NF	—	—	—	—	—
NS	-3.45E+04	1.23E+05	32	3.82E+04	44

Table A–580. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.11E+05	6.25E+05	-6.10E+05	6.23E+05
A2	-6.11E+05	6.25E+05	-6.10E+05	6.23E+05
FD	-5.79E+05	5.79E+05	-5.78E+05	5.78E+05
L1	-2.14E+05	2.02E+05	-2.14E+05	2.01E+05
L3	-2.14E+05	2.02E+05	-2.14E+05	2.01E+05
L4	-3.38E+05	2.94E+05	-3.36E+05	2.74E+05
NF	—	—	—	—
NS	-1.58E+05	1.82E+05	-1.57E+05	1.53E+05

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-291. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

TASK 1/HEAVE MOTION/MODEL 5613

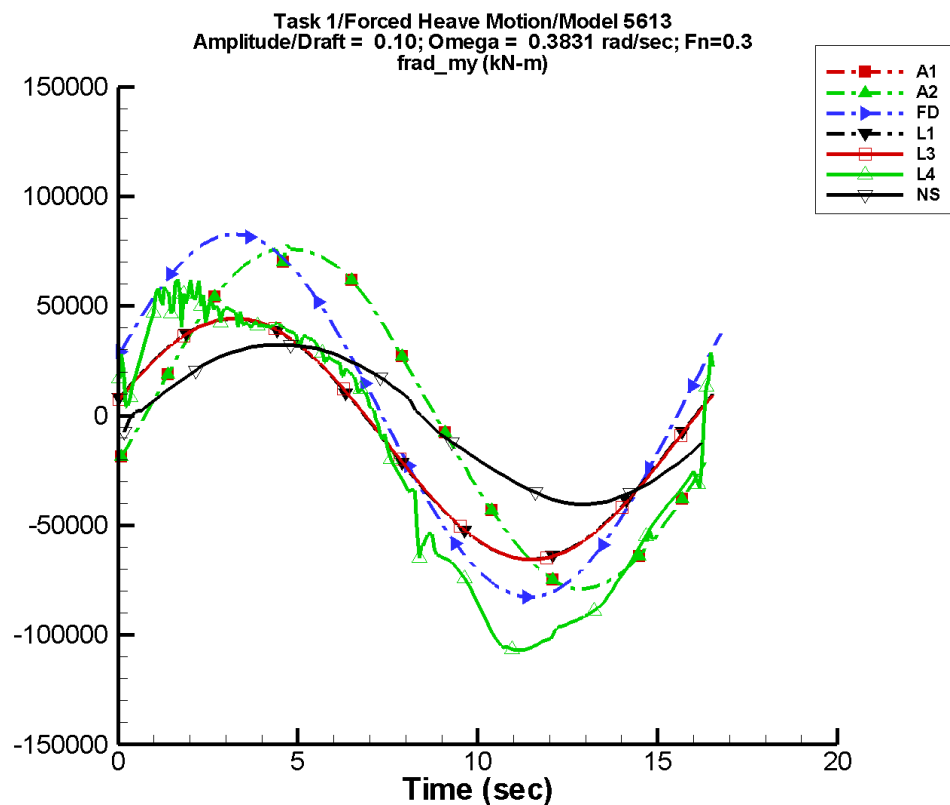
Table A–581. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-88.2	3.89E+04	-14	55.2	35
A2	-88.2	3.89E+04	-14	55.2	35
FD	-3.21E-03	4.14E+04	19	2.36E-03	-91
L1	-1.06E+04	2.74E+04	19	64.8	81
L3	-1.06E+04	2.75E+04	18	65.0	77
L4	-1.50E+04	4.95E+04	13	1.35E+03	79
NF	—	—	—	—	—
NS	-362.	1.81E+04	-13	842.	35

Table A–582. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.95E+04	3.90E+04	-3.93E+04	3.84E+04
A2	-3.95E+04	3.90E+04	-3.93E+04	3.84E+04
FD	-4.14E+04	4.14E+04	-4.12E+04	4.12E+04
L1	-3.81E+04	1.68E+04	-3.81E+04	1.67E+04
L3	-3.82E+04	1.68E+04	-3.81E+04	1.68E+04
L4	-7.00E+04	3.70E+04	-6.97E+04	3.33E+04
NF	—	—	—	—
NS	-1.92E+04	1.72E+04	-1.90E+04	1.70E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-292. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

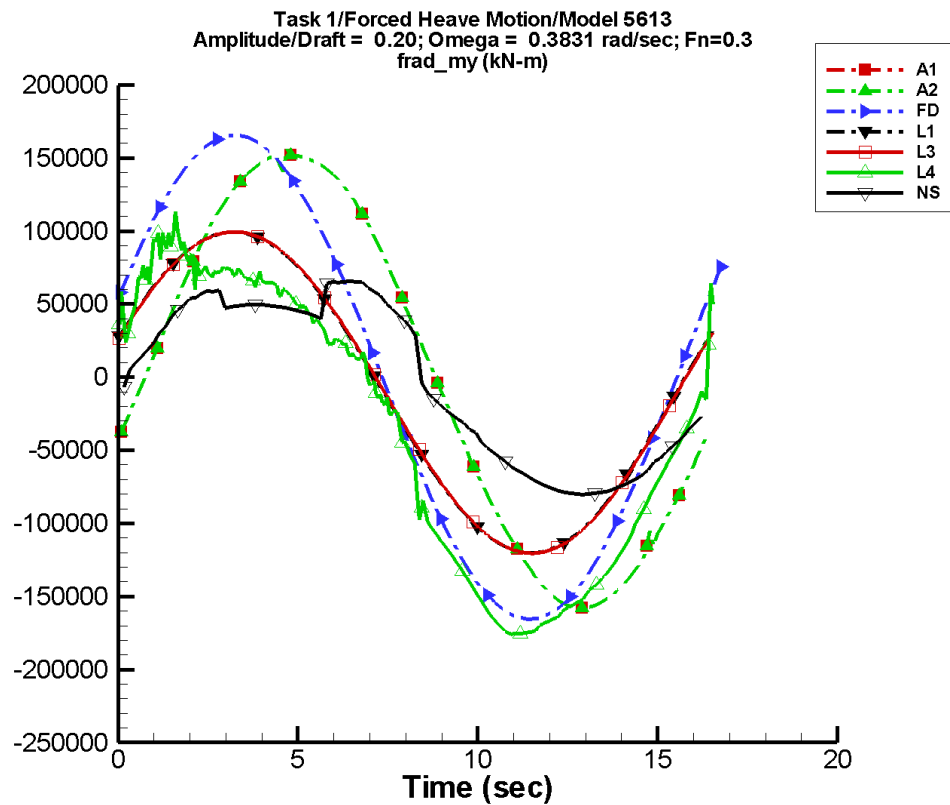
Table A–583. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-176.	7.79E+04	-14	110.	35
A2	-176.	7.79E+04	-14	110.	35
FD	-6.49E-03	8.28E+04	19	3.72E-03	-86
L1	-1.05E+04	5.49E+04	19	259.	81
L3	-1.05E+04	5.50E+04	18	260.	78
L4	-2.14E+04	7.99E+04	16	6.94E+03	87
NF	—	—	—	—	—
NS	-2.39E+03	3.68E+04	-11	1.24E+03	28

Table A–584. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.90E+04	7.80E+04	-7.87E+04	7.69E+04
A2	-7.90E+04	7.80E+04	-7.87E+04	7.69E+04
FD	-8.27E+04	8.27E+04	-8.24E+04	8.24E+04
L1	-6.55E+04	4.42E+04	-6.54E+04	4.41E+04
L3	-6.56E+04	4.43E+04	-6.55E+04	4.43E+04
L4	-1.07E+05	6.36E+04	-1.07E+05	5.60E+04
NF	—	—	—	—
NS	-4.04E+04	3.28E+04	-4.00E+04	3.25E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-293. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

TASK 1/HEAVE MOTION/MODEL 5613

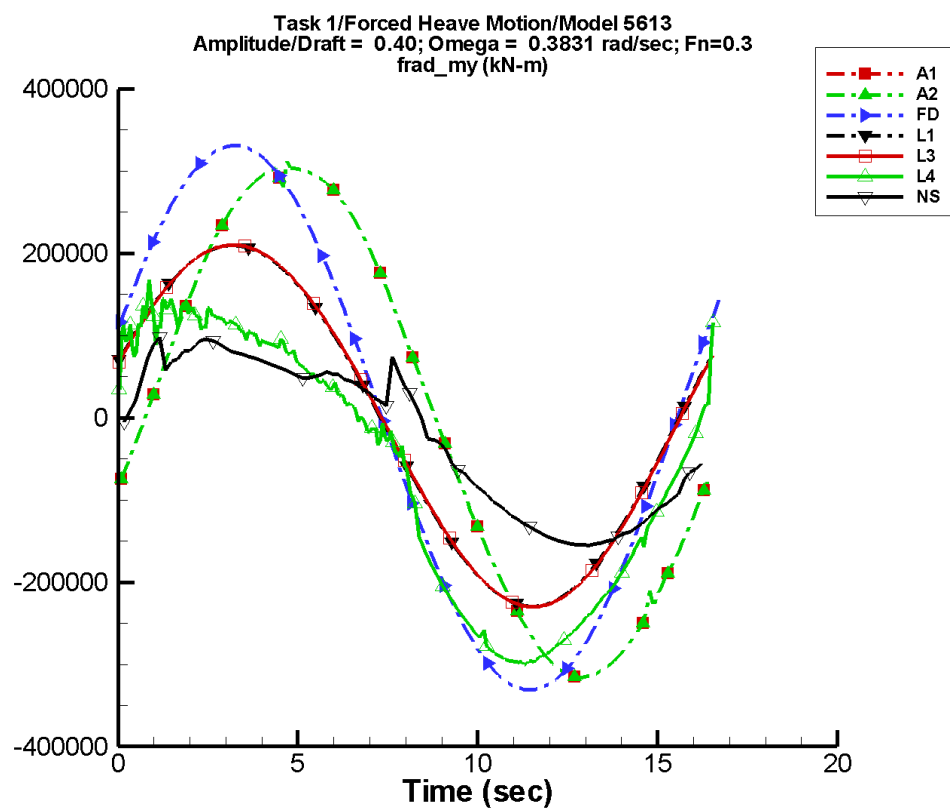
Table A–585. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-353.	1.56E+05	-14	221.	35
A2	-353.	1.56E+05	-14	221.	35
FD	-1.28E-02	1.66E+05	19	1.11E-02	-108
L1	-9.79E+03	1.10E+05	19	1.04E+03	81
L3	-9.79E+03	1.10E+05	18	1.04E+03	78
L4	-3.60E+04	1.30E+05	19	1.64E+04	91
NF	—	—	—	—	—
NS	-2.91E+03	7.37E+04	-11	1.04E+04	73

Table A–586. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.58E+05	1.56E+05	-1.57E+05	1.54E+05
A2	-1.58E+05	1.56E+05	-1.57E+05	1.54E+05
FD	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L1	-1.20E+05	9.92E+04	-1.20E+05	9.91E+04
L3	-1.20E+05	9.95E+04	-1.20E+05	9.93E+04
L4	-1.76E+05	1.13E+05	-1.76E+05	9.67E+04
NF	—	—	—	—
NS	-8.02E+04	6.84E+04	-7.95E+04	6.61E+04

TASK 1/HEAVE MOTION/MODEL 5613



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

Figure A-294. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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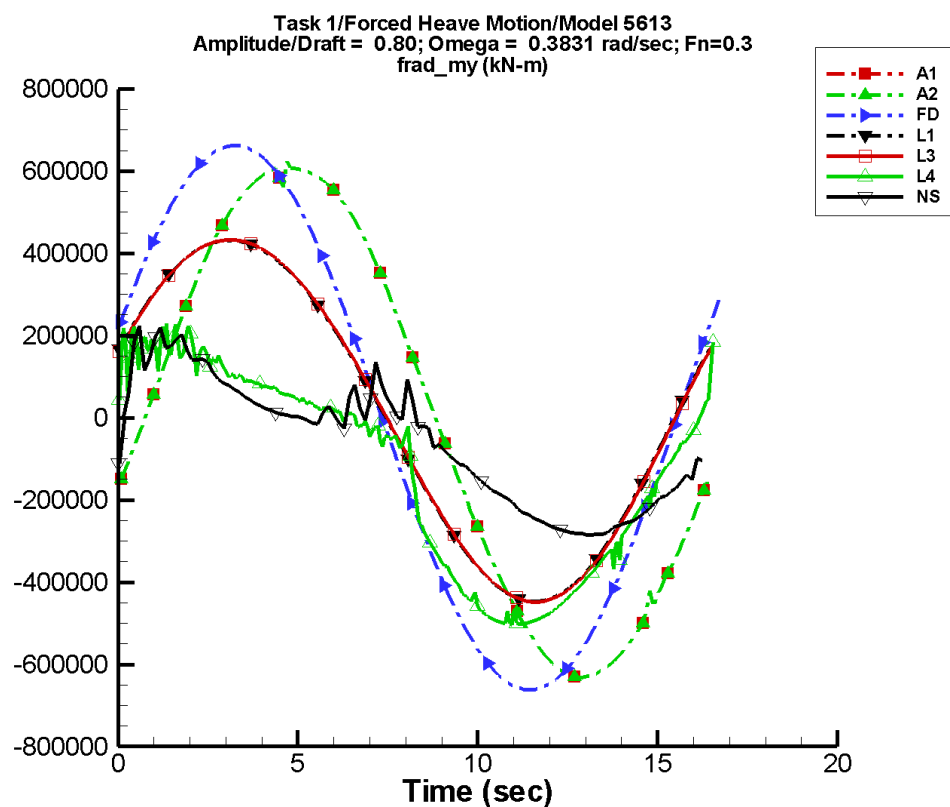
Table A–587. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-705.	3.11E+05	-14	442.	35
A2	-705.	3.11E+05	-14	442.	35
FD	-1.77E-02	3.31E+05	19	2.67E-02	-82
L1	-7.13E+03	2.19E+05	19	4.14E+03	81
L3	-7.13E+03	2.20E+05	18	4.15E+03	78
L4	-6.35E+04	2.13E+05	22	3.30E+04	100
NF	—	—	—	—	—
NS	-2.20E+04	1.19E+05	-4	2.95E+04	40

Table A–588. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.16E+05	3.12E+05	-3.15E+05	3.08E+05
A2	-3.16E+05	3.12E+05	-3.15E+05	3.08E+05
FD	-3.31E+05	3.31E+05	-3.30E+05	3.30E+05
L1	-2.29E+05	2.09E+05	-2.29E+05	2.09E+05
L3	-2.30E+05	2.10E+05	-2.30E+05	2.10E+05
L4	-3.00E+05	1.76E+05	-2.98E+05	1.33E+05
NF	—	—	—	—
NS	-1.55E+05	1.03E+05	-1.53E+05	8.86E+04

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

Figure A-295. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

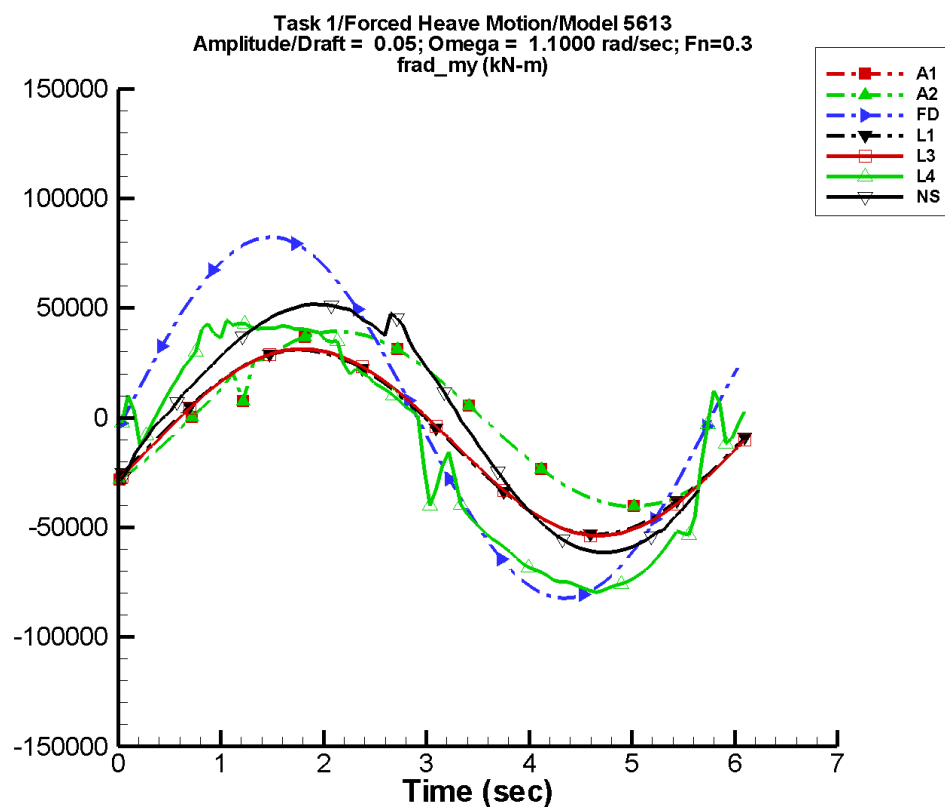
Table A–589. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.41E+03	6.23E+05	-14	883.	35
A2	-1.41E+03	6.23E+05	-14	883.	35
FD	-4.74E-02	6.62E+05	19	5.35E-02	-82
L1	3.51E+03	4.39E+05	19	1.66E+04	81
L3	3.51E+03	4.40E+05	18	1.66E+04	78
L4	-1.24E+05	3.22E+05	25	7.93E+04	109
NF	—	—	—	—	—
NS	-5.73E+04	1.79E+05	2	9.01E+04	47

Table A–590. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.32E+05	6.24E+05	-6.29E+05	6.15E+05
A2	-6.32E+05	6.24E+05	-6.29E+05	6.15E+05
FD	-6.62E+05	6.62E+05	-6.60E+05	6.60E+05
L1	-4.47E+05	4.32E+05	-4.47E+05	4.31E+05
L3	-4.48E+05	4.33E+05	-4.47E+05	4.32E+05
L4	-5.04E+05	2.29E+05	-4.99E+05	1.84E+05
NF	—	—	—	—
NS	-2.84E+05	2.31E+05	-2.81E+05	1.90E+05

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

Figure A-296. Time history of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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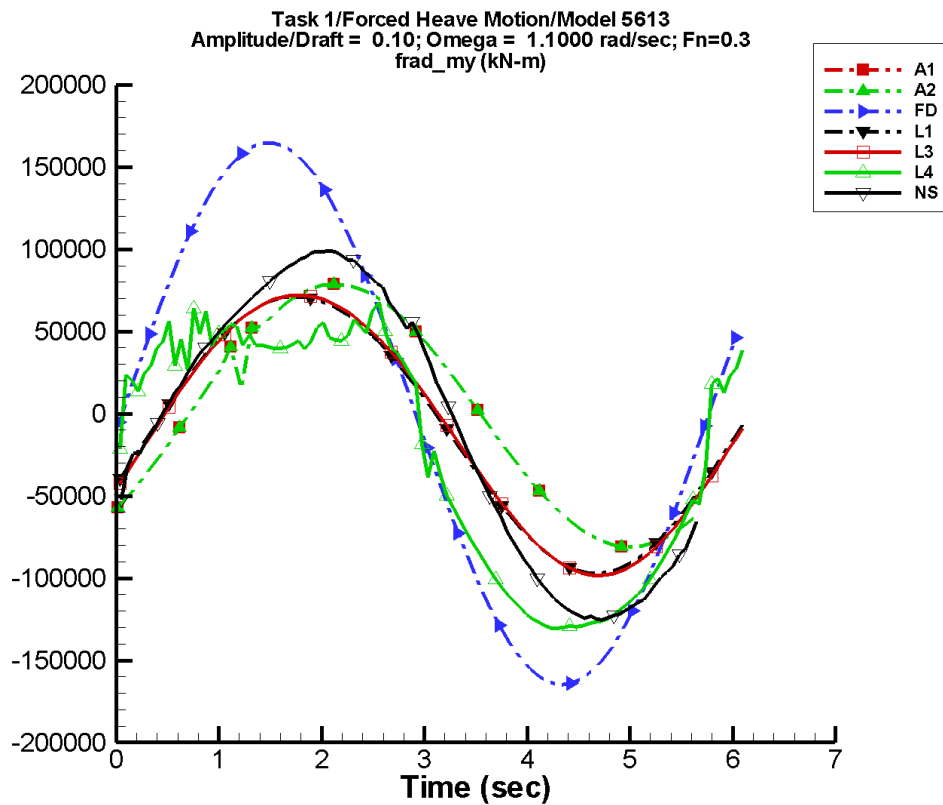
Table A–591. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-792.	3.96E+04	-45	312.	72
A2	-792.	3.96E+04	-45	312.	72
FD	-3.41E-03	8.24E+04	-4	1.50E-02	12
L1	-1.08E+04	4.20E+04	-23	584.	7
L3	-1.08E+04	4.26E+04	-24	639.	4
L4	-1.52E+04	6.28E+04	-9	5.67E+03	23
NF	—	—	—	—	—
NS	-1.82E+03	5.72E+04	-30	3.86E+03	62

Table A–592. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.05E+04	3.94E+04	-3.93E+04	3.81E+04
A2	-4.05E+04	3.94E+04	-3.93E+04	3.81E+04
FD	-8.24E+04	8.24E+04	-7.99E+04	7.97E+04
L1	-5.33E+04	3.08E+04	-5.28E+04	3.04E+04
L3	-5.39E+04	3.13E+04	-5.34E+04	3.09E+04
L4	-7.95E+04	4.47E+04	-7.81E+04	4.19E+04
NF	—	—	—	—
NS	-6.15E+04	5.21E+04	-6.08E+04	5.17E+04

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

Figure A-297. Time history of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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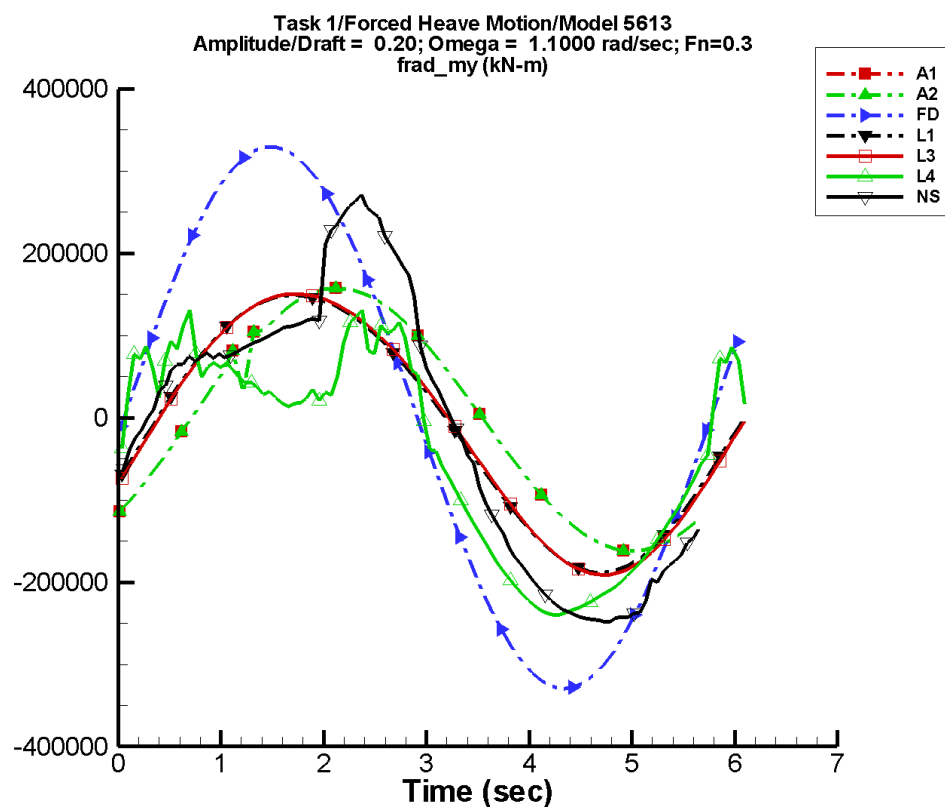
Table A–593. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.58E+03	7.92E+04	-45	624.	72
A2	-1.58E+03	7.92E+04	-45	624.	72
FD	-6.87E-03	1.65E+05	-4	3.82E-02	9
L1	-1.11E+04	8.41E+04	-23	2.34E+03	7
L3	-1.11E+04	8.52E+04	-24	2.56E+03	4
L4	-2.33E+04	9.91E+04	-9	2.59E+04	75
NF	—	—	—	—	—
NS	-9.10E+03	1.11E+05	-29	8.34E+03	75

Table A–594. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.10E+04	7.87E+04	-7.87E+04	7.63E+04
A2	-8.10E+04	7.87E+04	-7.87E+04	7.63E+04
FD	-1.65E+05	1.65E+05	-1.60E+05	1.59E+05
L1	-9.71E+04	7.12E+04	-9.60E+04	7.04E+04
L3	-9.83E+04	7.21E+04	-9.73E+04	7.13E+04
L4	-1.31E+05	7.12E+04	-1.29E+05	5.45E+04
NF	—	—	—	—
NS	-1.26E+05	9.92E+04	-1.24E+05	9.74E+04

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

Figure A-298. Time history of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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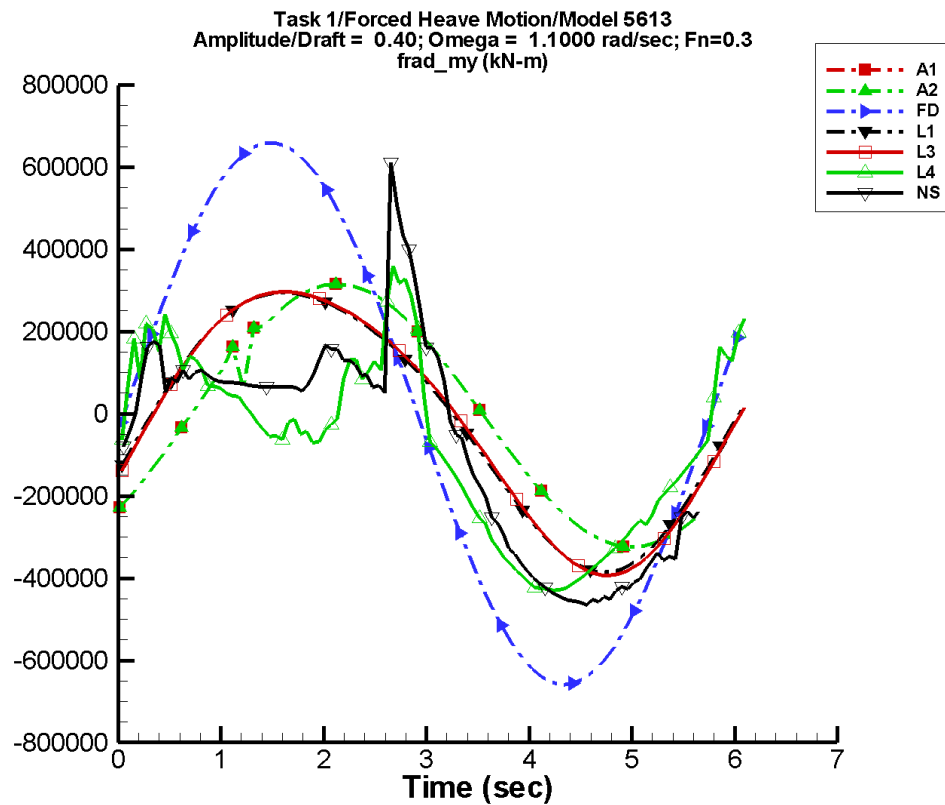
Table A-595. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.17E+03	1.58E+05	-45	1.25E+03	72
A2	-3.17E+03	1.58E+05	-45	1.25E+03	72
FD	-1.75E-03	3.30E+05	-4	6.78E-02	-9
L1	-1.23E+04	1.68E+05	-23	9.35E+03	7
L3	-1.23E+04	1.70E+05	-24	1.02E+04	4
L4	-4.31E+04	1.56E+05	-8	7.27E+04	77
NF	—	—	—	—	—
NS	-1.41E+04	2.19E+05	-30	5.20E+04	93

Table A-596. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.62E+05	1.57E+05	-1.57E+05	1.53E+05
A2	-1.62E+05	1.57E+05	-1.57E+05	1.53E+05
FD	-3.30E+05	3.29E+05	-3.20E+05	3.19E+05
L1	-1.88E+05	1.49E+05	-1.86E+05	1.47E+05
L3	-1.91E+05	1.50E+05	-1.89E+05	1.49E+05
L4	-2.40E+05	1.31E+05	-2.35E+05	1.07E+05
NF	—	—	—	—
NS	-2.48E+05	2.79E+05	-2.46E+05	2.62E+05

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

Figure A-299. Time history of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

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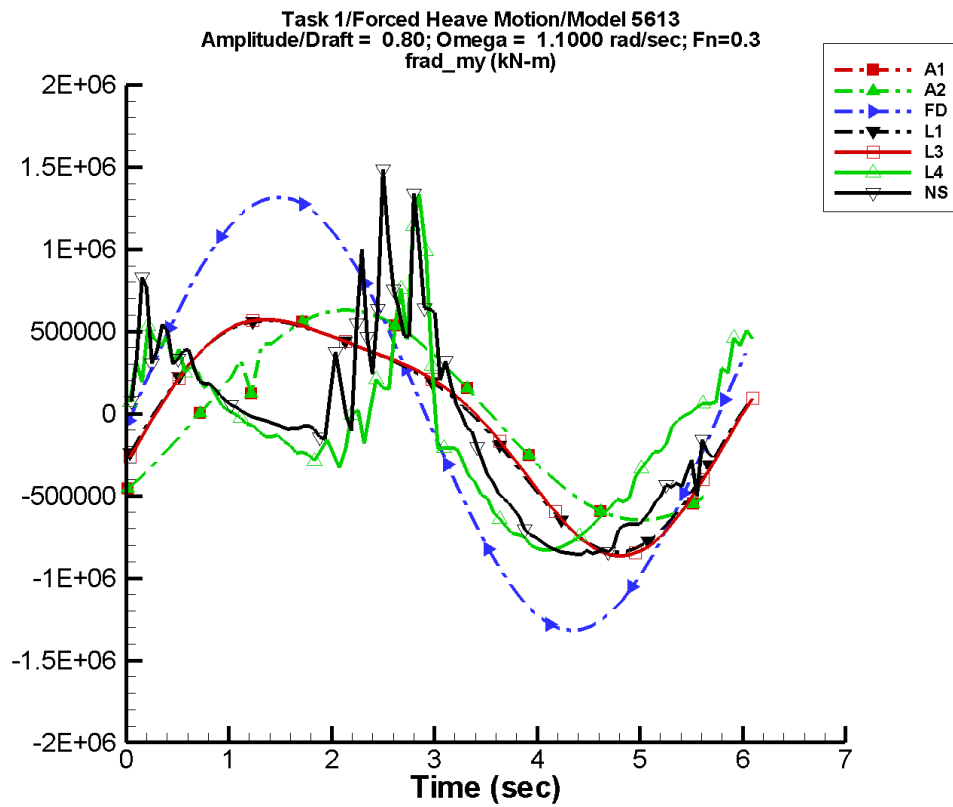
Table A–597. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.34E+03	3.17E+05	-45	2.50E+03	72
A2	-6.34E+03	3.17E+05	-45	2.50E+03	72
FD	-2.71E-02	6.59E+05	-4	0.138	5
L1	-1.73E+04	3.36E+05	-23	3.74E+04	7
L3	-1.73E+04	3.41E+05	-24	4.10E+04	4
L4	-7.99E+04	2.35E+05	-7	1.82E+05	77
NF	—	—	—	—	—
NS	-7.69E+04	3.03E+05	-27	1.47E+05	67

Table A–598. Minimum and maximum of of M_y^{rad} for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.24E+05	3.15E+05	-3.15E+05	3.05E+05
A2	-3.24E+05	3.15E+05	-3.15E+05	3.05E+05
FD	-6.59E+05	6.59E+05	-6.39E+05	6.38E+05
L1	-3.85E+05	2.94E+05	-3.80E+05	2.91E+05
L3	-3.93E+05	2.96E+05	-3.88E+05	2.93E+05
L4	-4.31E+05	4.16E+05	-4.22E+05	2.61E+05
NF	—	—	—	—
NS	-4.65E+05	6.33E+05	-4.55E+05	3.50E+05

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

Figure A-300. Time history of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, $F_n = 0.3$ in the case of prescribed heave motion of Model 5613 scaled to $L = 154$ m.

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Table A–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/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.27E+04	6.34E+05	-45	4.99E+03	72
A2	-1.27E+04	6.34E+05	-45	4.99E+03	72
FD	1.77E-02	1.32E+06	-4	0.278	-3
L1	-3.73E+04	6.73E+05	-23	1.50E+05	7
L3	-3.73E+04	6.81E+05	-24	1.64E+05	4
L4	-1.23E+05	3.46E+05	1	4.59E+05	81
NF	—	—	—	—	—
NS	-7.02E+04	5.09E+05	-24	4.50E+05	80

Table A–600. Minimum and maximum of M_y^{rad} for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.48E+05	6.30E+05	-6.29E+05	6.10E+05
A2	-6.48E+05	6.30E+05	-6.29E+05	6.10E+05
FD	-1.32E+06	1.32E+06	-1.28E+06	1.28E+06
L1	-8.42E+05	5.67E+05	-8.29E+05	5.60E+05
L3	-8.64E+05	5.74E+05	-8.50E+05	5.67E+05
L4	-8.27E+05	1.33E+06	-8.12E+05	9.63E+05
NF	—	—	—	—
NS	-8.57E+05	1.49E+06	-8.52E+05	8.49E+05