

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

## **Appendix B — Time History Plots for Prescribed Heave Motion of Model 5514**

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- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-642

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- B-568. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-642
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-644
- B-570. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-644
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-646
- B-572. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-646
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-648
- B-574. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-648
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-650
- B-576. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-650
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-652
- B-578. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-652
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-654

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- B-580. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-654
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-656
- B-582. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-656
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-658
- B-584. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-658
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-660
- B-586. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-660
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-662
- B-588. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-662
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-664
- B-590. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-664
- B-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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m. . . . . B-666



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B-592.	Minimum and maximum of $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-666
B-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 $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-668
B-594.	Minimum and maximum of $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-668
B-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 $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-670
B-596.	Minimum and maximum of $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-670
B-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 $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-672
B-598.	Minimum and maximum of $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-672
B-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 $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-674
B-600.	Minimum and maximum of $M_y^{\text{rad}}$ 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 5514 scaled to L = 142 m. . . . .	B-674

### Introduction

This appendix contains all the plots and tables for the simulations of task 1 that involve 1-DOF prescribed heave motion of Model 5514 scaled to the length 142 m. Each of Figures B–1 through B–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  $\omega$ . Furthermore, the time  $t$  has been replaced by  $t \bmod T_e$  where  $T_e$  is the period of the motion.

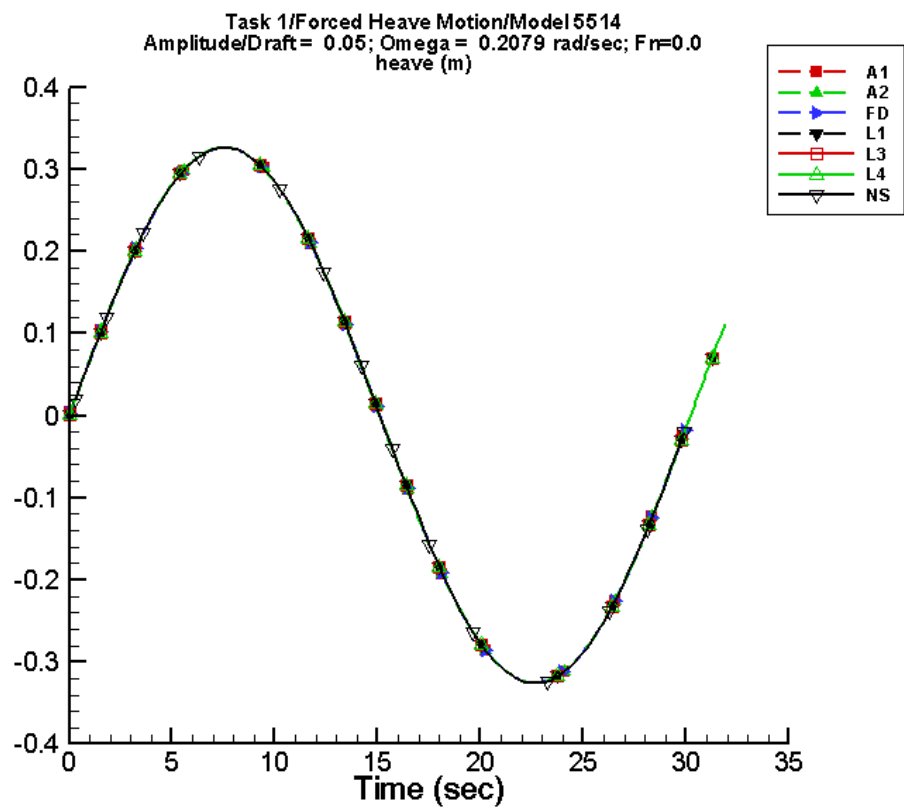
Tables B–1 through B–600 contain information related to the results depicted in the figures. Two tables follow each figure. The first table gives estimates of the mean value and the amplitudes and phases of the first and second harmonics obtained by Fourier analysis. The second table gives the minimum 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 L 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:

<b>Heave Motion <math>z_e = z_a \sin(\omega t)</math></b>					
<b>Heave Amplitudes <math>z_a</math></b>					
% of $T_{\text{mean}}$	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
<b>Heave Frequencies <math>\omega</math></b>					
$\omega_1$ (rad/s)	0.2079	0.2079	0.2079	0.2079	0.2079
$\omega_2$ (rad/s)	0.3831	0.3831	0.3831	0.3831	0.3831
$\omega_3$ (rad/s)	1.1	1.1	1.1	1.1	1.1

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-1. Time history of  $z_e$  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 5514 scaled to  $L = 142$  m.

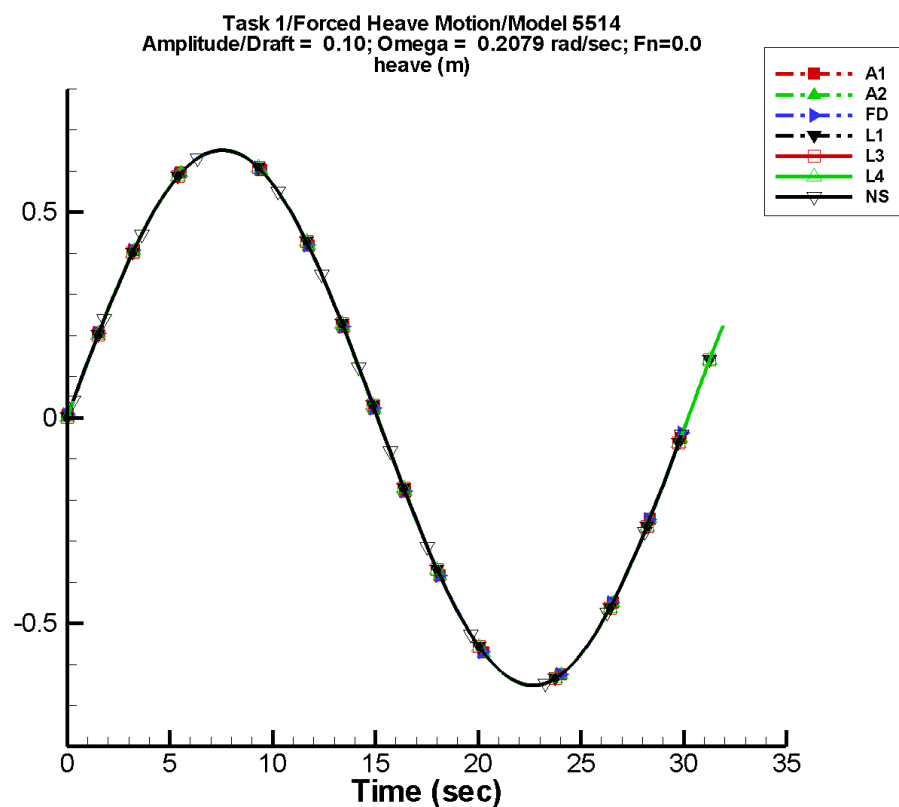
Table B–1. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-2.71E-07	0.326	0	3.25E-07	-17
A2	-2.71E-07	0.326	0	3.25E-07	-17
FD	-9.01E-09	0.326	0	1.65E-08	-58
L1	7.76E-07	0.326	0	5.69E-08	103
L3	7.76E-07	0.326	0	5.69E-08	103
L4	7.76E-07	0.326	0	5.69E-08	103
NF	—	—	—	—	—
NS	2.45E-08	0.326	0	2.20E-08	29

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.326	0.326
A2	-0.326	0.326	-0.326	0.326
FD	-0.325	0.325	-0.325	0.325
L1	-0.326	0.326	-0.326	0.326
L3	-0.326	0.326	-0.326	0.326
L4	-0.326	0.326	-0.326	0.326
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

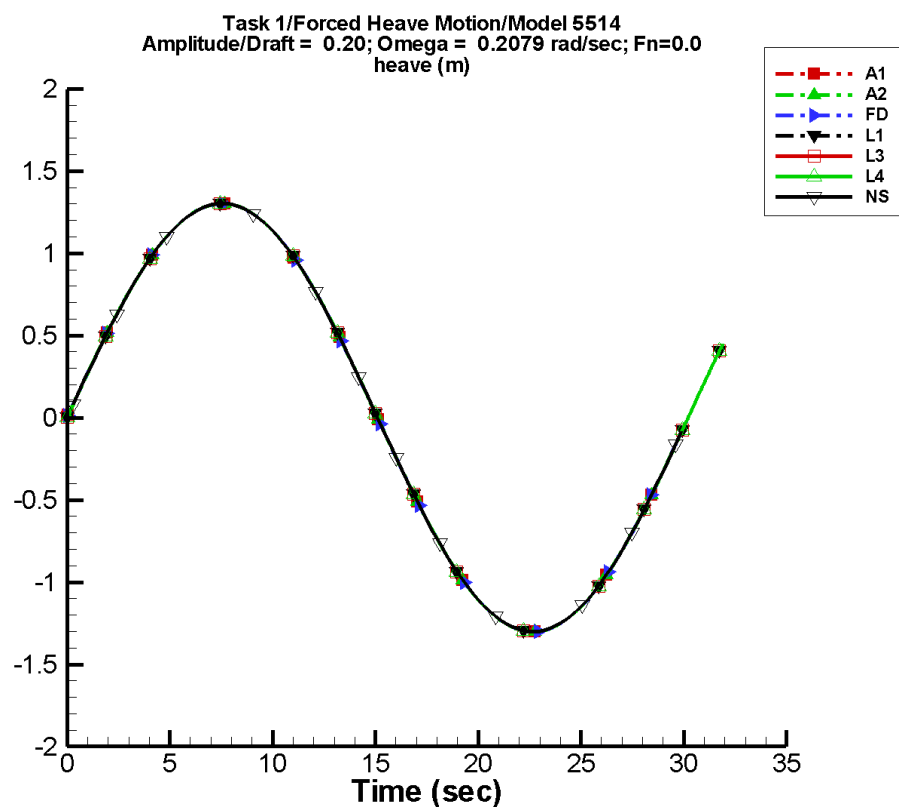
Table B–3. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-4.18E-07	0.651	0	6.76E-07	-21
A2	-4.18E-07	0.651	0	6.76E-07	-21
FD	-2.03E-08	0.651	0	4.10E-08	-8
L1	2.47E-06	0.651	0	1.07E-07	-66
L3	2.47E-06	0.651	0	1.07E-07	-66
L4	2.47E-06	0.651	0	1.07E-07	-66
NF	—	—	—	—	—
NS	5.12E-08	0.651	0	4.04E-08	-2

Table B–4. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.651	0.651	-0.650	0.651
A2	-0.651	0.651	-0.650	0.651
FD	-0.651	0.651	-0.650	0.650
L1	-0.651	0.651	-0.651	0.651
L3	-0.651	0.651	-0.651	0.651
L4	-0.651	0.651	-0.651	0.651
NF	—	—	—	—
NS	-0.651	0.651	-0.645	0.645

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

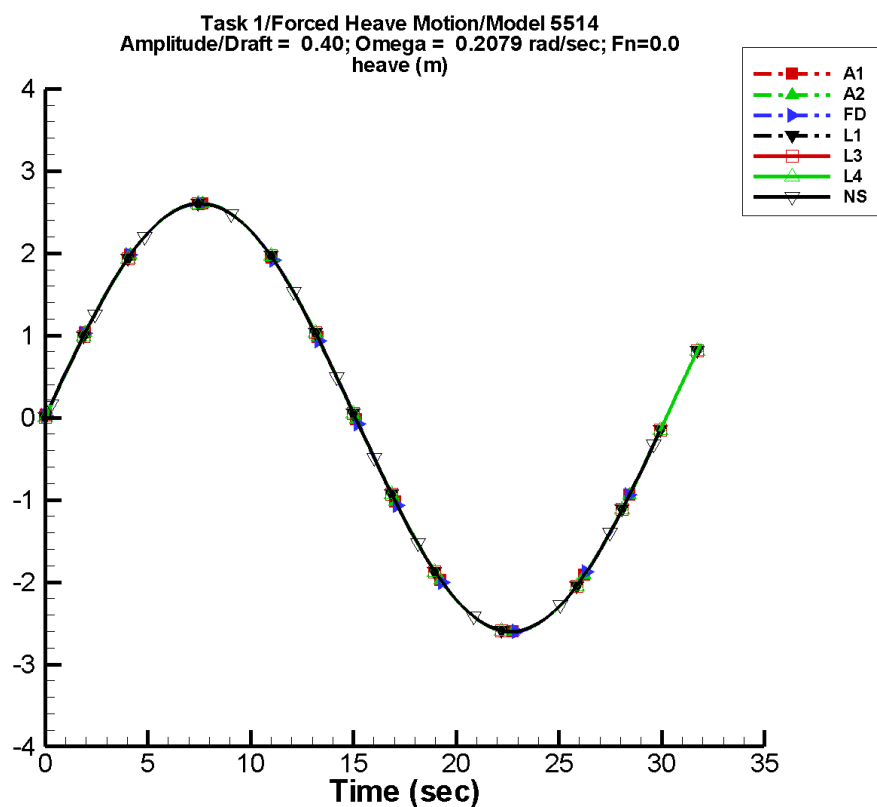
Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-9.15E-07	1.30	0	1.35E-06	-24
A2	-9.15E-07	1.30	0	1.35E-06	-24
FD	-5.63E-08	1.30	0	1.02E-07	-19
L1	4.73E-06	1.30	0	2.02E-07	66
L3	4.73E-06	1.30	0	2.02E-07	66
L4	4.73E-06	1.30	0	2.02E-07	66
NF	—	—	—	—	—
NS	1.12E-07	1.30	0	1.12E-07	8

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.30	1.30
A2	-1.30	1.30	-1.30	1.30
FD	-1.30	1.30	-1.30	1.30
L1	-1.30	1.30	-1.30	1.30
L3	-1.30	1.30	-1.30	1.30
L4	-1.30	1.30	-1.30	1.30
NF	—	—	—	—
NS	-1.30	1.30	-1.29	1.29



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

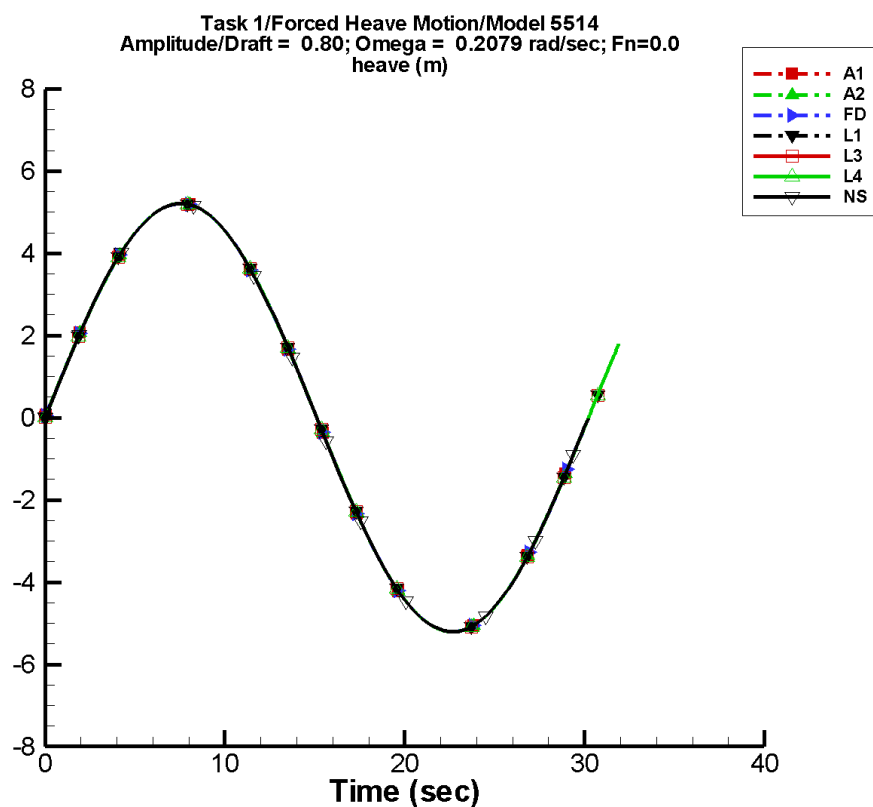
Table B–7. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-1.59E-06	2.60	0	2.76E-06	-25
A2	-1.59E-06	2.60	0	2.76E-06	-25
FD	-6.34E-08	2.60	0	9.55E-08	-164
L1	9.47E-06	2.60	0	7.32E-08	-94
L3	9.47E-06	2.60	0	7.32E-08	-94
L4	9.47E-06	2.60	0	7.32E-08	-94
NF	—	—	—	—	—
NS	2.17E-07	2.60	0	1.28E-07	12

Table B–8. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.60	2.60
A2	-2.60	2.60	-2.60	2.60
FD	-2.60	2.60	-2.60	2.60
L1	-2.60	2.60	-2.60	2.60
L3	-2.60	2.60	-2.60	2.60
L4	-2.60	2.60	-2.60	2.60
NF	—	—	—	—
NS	-2.60	2.60	-2.58	2.58

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

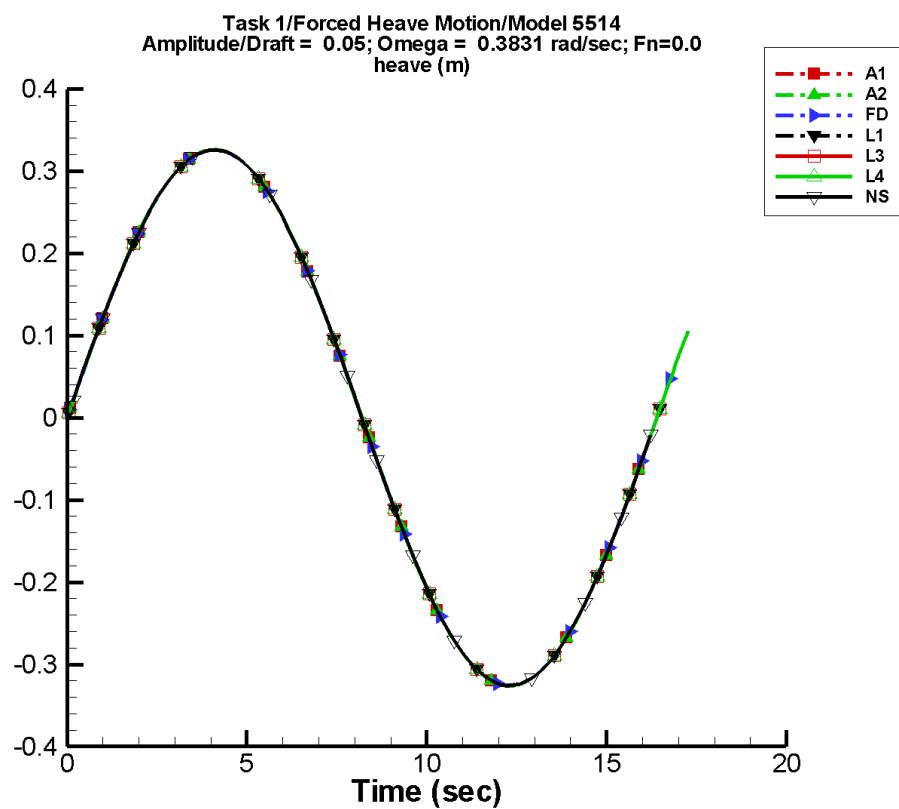
Table B–9. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-3.38E-06	5.21	0	5.44E-06	-23
A2	-3.38E-06	5.21	0	5.44E-06	-23
FD	-8.20E-08	5.21	0	8.13E-08	-12
L1	1.95E-05	5.21	0	6.23E-07	-46
L3	1.95E-05	5.21	0	6.23E-07	-46
L4	1.95E-05	5.21	0	6.23E-07	-46
NF	—	—	—	—	—
NS	-3.48E-07	5.21	0	4.66E-07	52

Table B–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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.21	5.21	-5.20	5.21
A2	-5.21	5.21	-5.20	5.21
FD	-5.21	5.21	-5.20	5.20
L1	-5.21	5.21	-5.21	5.21
L3	-5.21	5.21	-5.21	5.21
L4	-5.21	5.21	-5.21	5.21
NF	—	—	—	—
NS	-5.21	5.21	-5.18	5.18

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

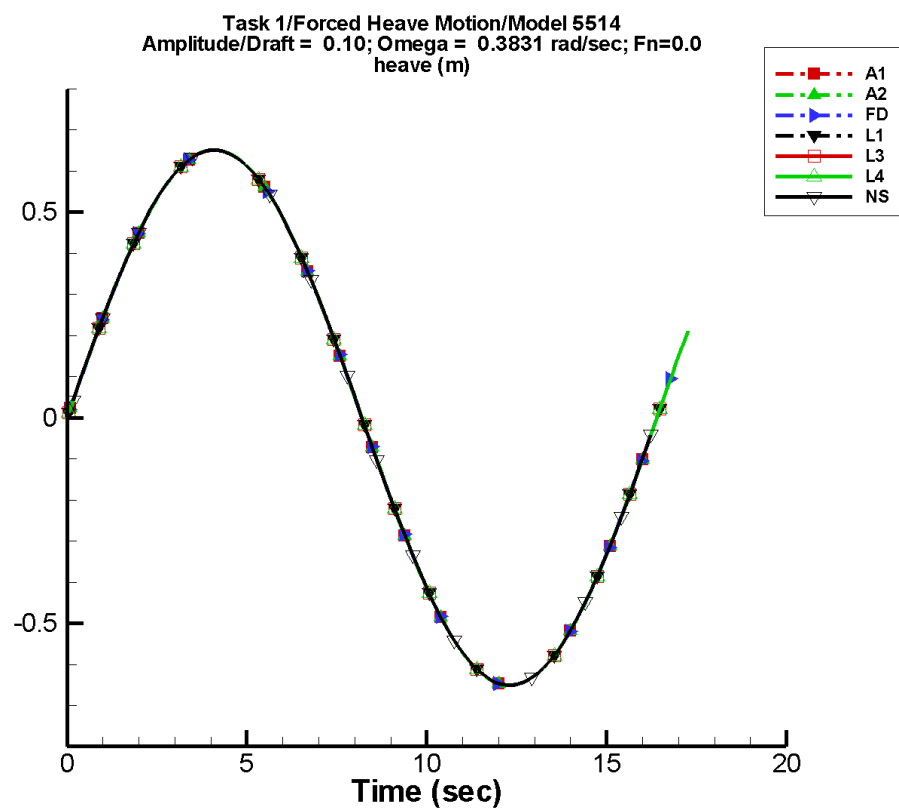
Table B–11. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	1.07E-08	0.326	0	3.45E-08	-35
A2	1.07E-08	0.326	0	3.45E-08	-35
FD	-3.63E-08	0.325	0	3.98E-08	-89
L1	1.17E-06	0.326	0	4.68E-08	-30
L3	1.17E-06	0.326	0	4.68E-08	-30
L4	1.17E-06	0.326	0	4.68E-08	-30
NF	—	—	—	—	—
NS	5.69E-11	0.326	0	2.62E-08	-146

Table B–12. Minimum and maximum of  $z_e$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.325	0.327
A2	-0.326	0.326	-0.325	0.327
FD	-0.325	0.325	-0.324	0.324
L1	-0.326	0.326	-0.326	0.326
L3	-0.326	0.326	-0.326	0.326
L4	-0.326	0.326	-0.326	0.326
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

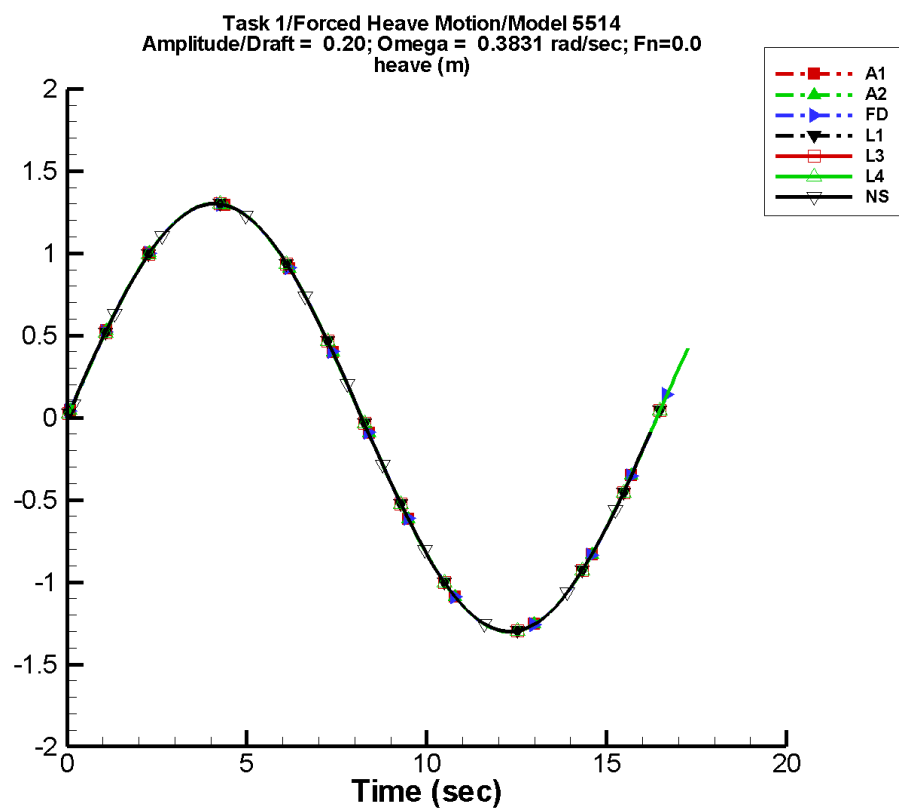
Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	5.57E-08	0.651	0	2.39E-08	-175
A2	5.57E-08	0.651	0	2.39E-08	-175
FD	-6.28E-08	0.651	0	6.72E-08	-90
L1	2.20E-06	0.651	0	6.72E-08	78
L3	2.20E-06	0.651	0	6.72E-08	78
L4	2.20E-06	0.651	0	6.72E-08	78
NF	—	—	—	—	—
NS	-4.91E-08	0.651	0	7.48E-08	177

Table B–14. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.651	0.651	-0.649	0.653
A2	-0.651	0.651	-0.649	0.653
FD	-0.651	0.651	-0.649	0.649
L1	-0.651	0.651	-0.650	0.650
L3	-0.651	0.651	-0.650	0.650
L4	-0.651	0.651	-0.650	0.650
NF	—	—	—	—
NS	-0.651	0.651	-0.644	0.644



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

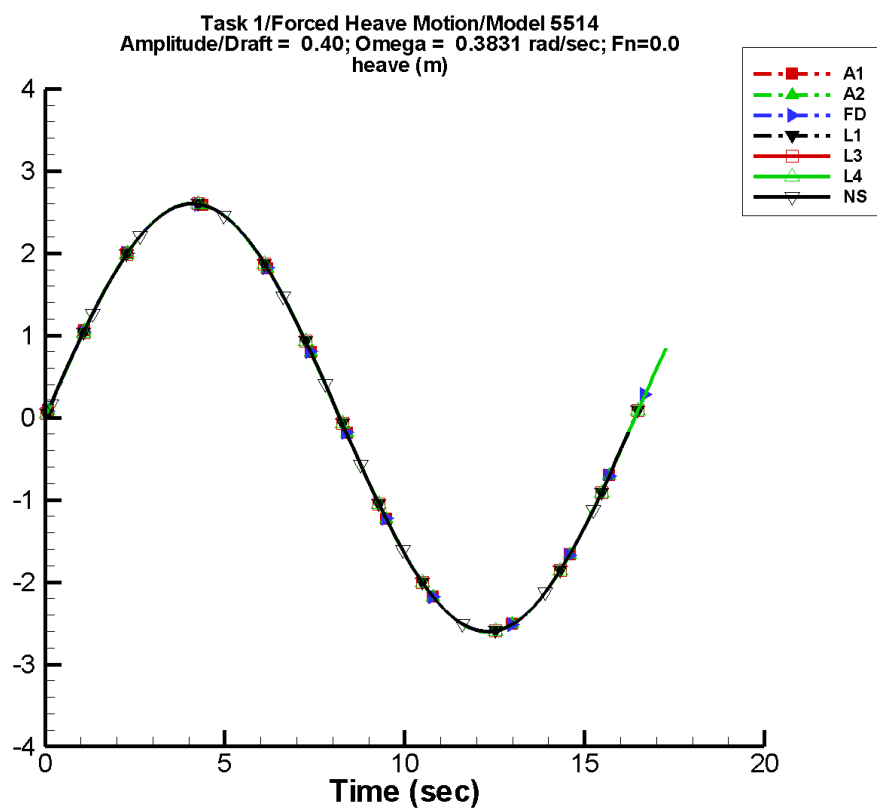
Table B–15. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	5.08E-08	1.30	0	5.27E-08	98
A2	5.08E-08	1.30	0	5.27E-08	98
FD	-1.55E-07	1.30	0	9.91E-08	-105
L1	4.34E-06	1.30	0	2.58E-07	62
L3	4.34E-06	1.30	0	2.58E-07	62
L4	4.34E-06	1.30	0	2.58E-07	62
NF	—	—	—	—	—
NS	-8.38E-08	1.30	0	1.73E-07	-157

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.30	1.31
A2	-1.30	1.30	-1.30	1.31
FD	-1.30	1.30	-1.30	1.30
L1	-1.30	1.30	-1.30	1.30
L3	-1.30	1.30	-1.30	1.30
L4	-1.30	1.30	-1.30	1.30
NF	—	—	—	—
NS	-1.30	1.30	-1.29	1.29

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

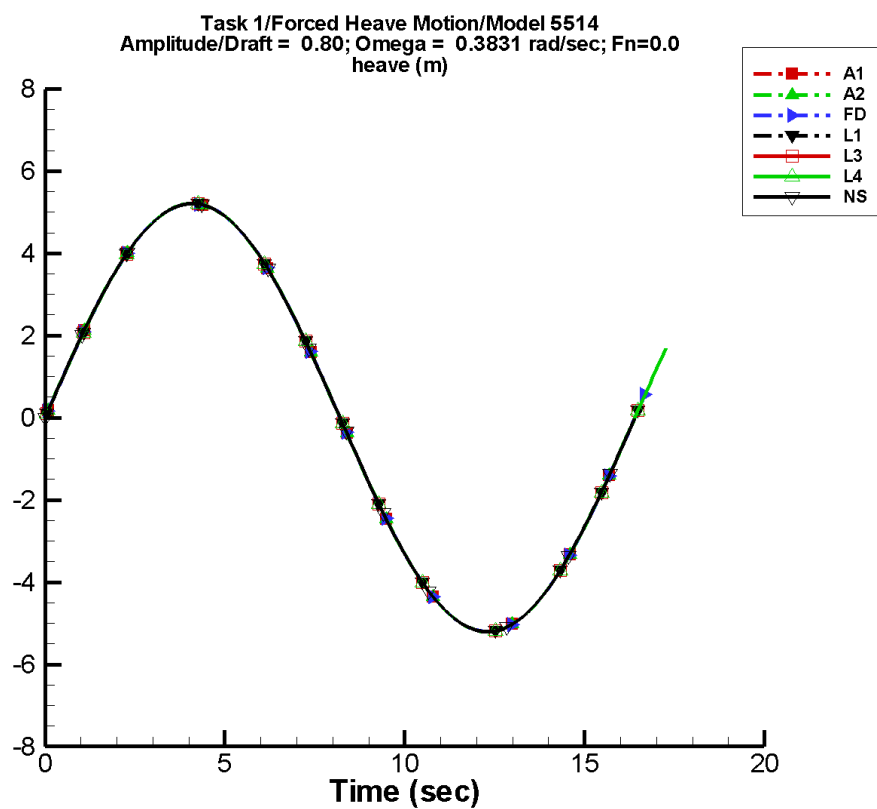
Table B–17. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	2.82E-07	2.60	0	3.77E-08	49
A2	2.82E-07	2.60	0	3.77E-08	49
FD	-2.65E-07	2.60	0	3.31E-07	-93
L1	8.71E-06	2.60	0	2.53E-07	30
L3	8.71E-06	2.60	0	2.53E-07	30
L4	8.71E-06	2.60	0	2.53E-07	30
NF	—	—	—	—	—
NS	-2.53E-07	2.60	0	2.51E-07	179

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.59	2.61
A2	-2.60	2.60	-2.59	2.61
FD	-2.60	2.60	-2.59	2.59
L1	-2.60	2.60	-2.60	2.60
L3	-2.60	2.60	-2.60	2.60
L4	-2.60	2.60	-2.60	2.60
NF	—	—	—	—
NS	-2.60	2.60	-2.58	2.58

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

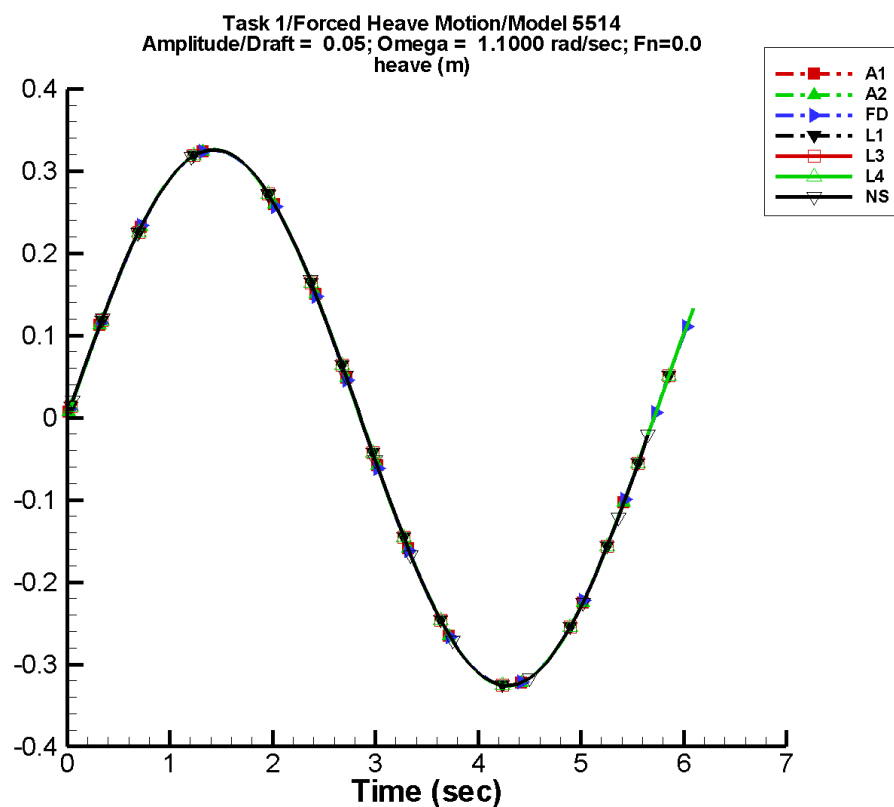
Table B–19. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	2.03E-07	5.21	0	2.11E-07	98
A2	2.03E-07	5.21	0	2.11E-07	98
FD	-5.89E-07	5.21	0	7.28E-07	-93
L1	1.71E-05	5.21	0	8.64E-07	118
L3	1.71E-05	5.21	0	8.64E-07	118
L4	1.71E-05	5.21	0	8.64E-07	118
NF	—	—	—	—	—
NS	-3.56E-07	5.21	0	4.37E-07	48

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.21	5.21	-5.19	5.22
A2	-5.21	5.21	-5.19	5.22
FD	-5.21	5.21	-5.19	5.19
L1	-5.21	5.21	-5.20	5.20
L3	-5.21	5.21	-5.20	5.20
L4	-5.21	5.21	-5.20	5.20
NF	—	—	—	—
NS	-5.21	5.21	-5.18	5.18

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

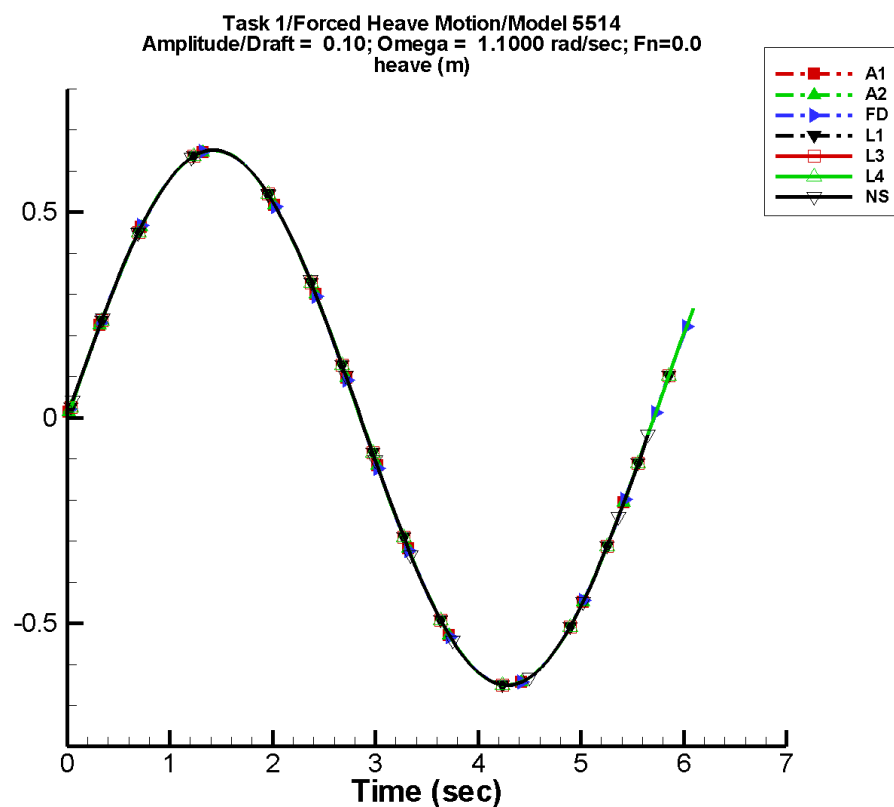
Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-3.53E-07	0.326	0	5.46E-07	-11
A2	-3.53E-07	0.326	0	5.46E-07	-11
FD	-4.81E-08	0.326	0	7.75E-08	-8
L1	3.00E-07	0.326	0	3.84E-08	3
L3	3.00E-07	0.326	0	3.84E-08	3
L4	3.00E-07	0.326	0	3.84E-08	3
NF	—	—	—	—	—
NS	-1.02E-08	0.326	0	2.08E-08	-123

Table B–22. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.316	0.318
A2	-0.326	0.326	-0.316	0.318
FD	-0.325	0.325	-0.315	0.315
L1	-0.326	0.326	-0.322	0.322
L3	-0.326	0.326	-0.322	0.322
L4	-0.326	0.326	-0.322	0.322
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

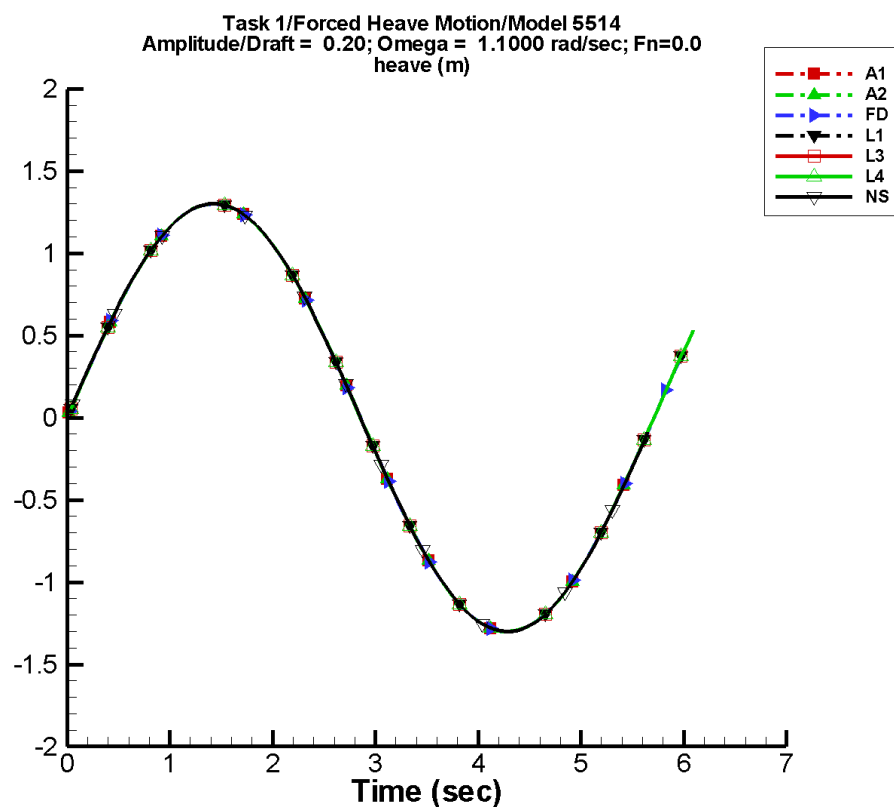
Table B–23. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-7.02E-07	0.651	0	1.04E-06	-11
A2	-7.02E-07	0.651	0	1.04E-06	-11
FD	-1.42E-07	0.651	0	1.27E-07	4
L1	8.97E-07	0.651	0	1.18E-07	54
L3	8.97E-07	0.651	0	1.18E-07	54
L4	8.97E-07	0.651	0	1.18E-07	54
NF	—	—	—	—	—
NS	-1.30E-08	0.651	0	3.00E-08	-152

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.650	0.651	-0.631	0.635
A2	-0.650	0.651	-0.631	0.635
FD	-0.650	0.651	-0.630	0.630
L1	-0.651	0.651	-0.644	0.644
L3	-0.651	0.651	-0.644	0.644
L4	-0.651	0.651	-0.644	0.644
NF	—	—	—	—
NS	-0.651	0.651	-0.644	0.644

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

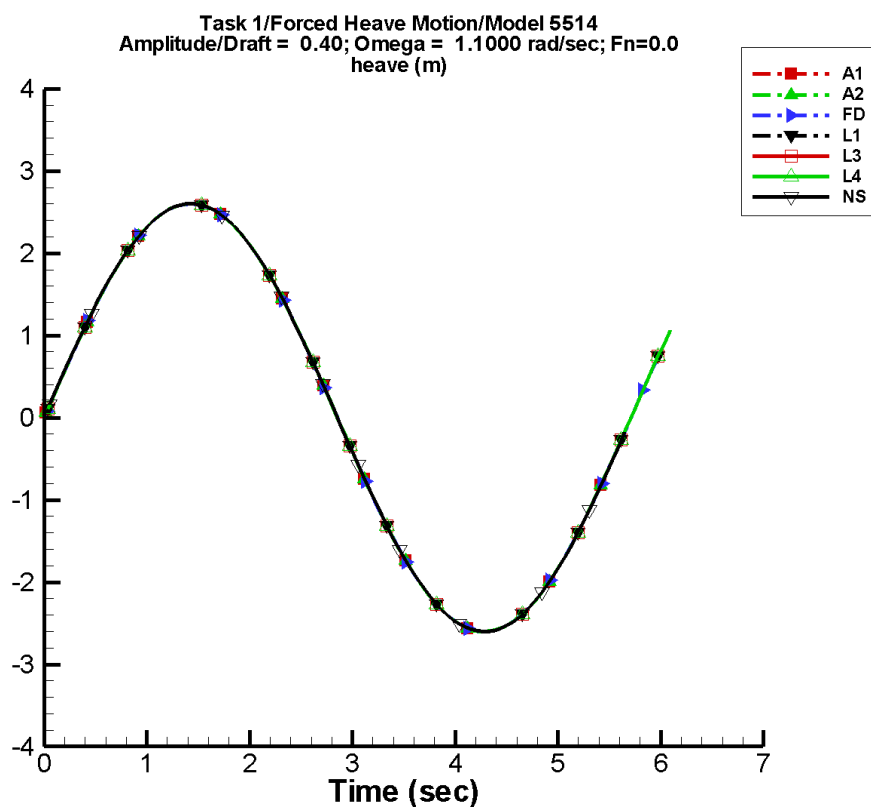
Table B–25. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-1.29E-06	1.30	0	2.06E-06	-12
A2	-1.29E-06	1.30	0	2.06E-06	-12
FD	-2.38E-07	1.30	0	2.98E-07	5
L1	2.14E-06	1.30	0	1.88E-07	-45
L3	2.14E-06	1.30	0	1.88E-07	-45
L4	2.14E-06	1.30	0	1.88E-07	-45
NF	—	—	—	—	—
NS	-6.14E-08	1.30	0	4.63E-08	-145

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.26	1.27
A2	-1.30	1.30	-1.26	1.27
FD	-1.30	1.30	-1.26	1.26
L1	-1.30	1.30	-1.29	1.29
L3	-1.30	1.30	-1.29	1.29
L4	-1.30	1.30	-1.29	1.29
NF	—	—	—	—
NS	-1.30	1.30	-1.29	1.29

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

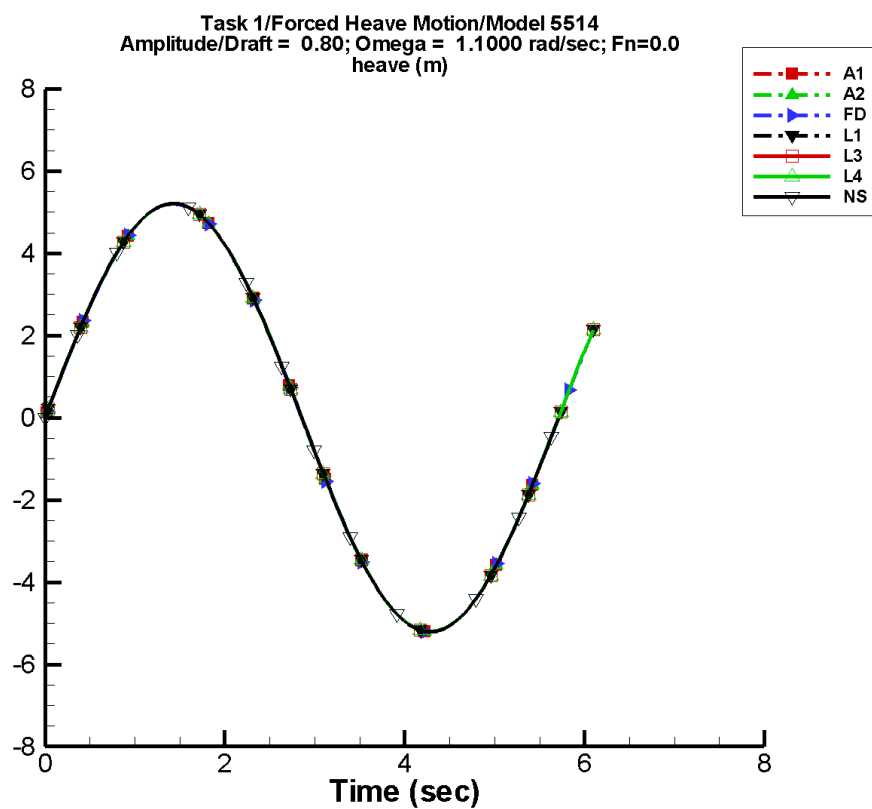
Table B–27. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-2.76E-06	2.60	0	4.13E-06	-10
A2	-2.76E-06	2.60	0	4.13E-06	-10
FD	-4.86E-07	2.60	0	5.69E-07	7
L1	3.43E-06	2.60	0	8.37E-07	35
L3	3.43E-06	2.60	0	8.37E-07	35
L4	3.43E-06	2.60	0	8.37E-07	35
NF	—	—	—	—	—
NS	-1.43E-07	2.60	0	8.72E-08	-147

Table B–28. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.52	2.54
A2	-2.60	2.60	-2.52	2.54
FD	-2.60	2.60	-2.52	2.52
L1	-2.60	2.60	-2.57	2.57
L3	-2.60	2.60	-2.57	2.57
L4	-2.60	2.60	-2.57	2.57
NF	—	—	—	—
NS	-2.60	2.60	-2.58	2.58

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–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 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

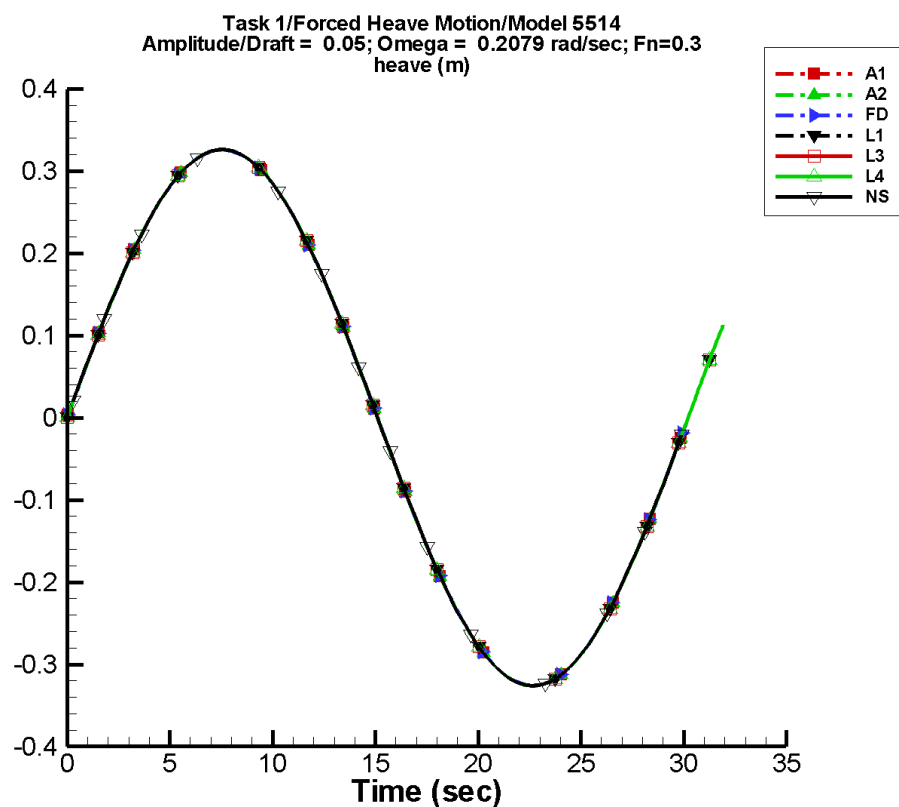
Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-5.43E-06	5.21	0	8.07E-06	-12
A2	-5.43E-06	5.21	0	8.07E-06	-12
FD	-8.83E-07	5.21	0	1.24E-06	2
L1	6.98E-06	5.21	0	1.51E-06	35
L3	6.98E-06	5.21	0	1.51E-06	35
L4	6.98E-06	5.21	0	1.51E-06	35
NF	—	—	—	—	—
NS	5.07E-07	5.21	0	1.40E-07	35

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.20	5.21	-5.04	5.08
A2	-5.20	5.21	-5.04	5.08
FD	-5.20	5.21	-5.04	5.04
L1	-5.21	5.21	-5.15	5.15
L3	-5.21	5.21	-5.15	5.15
L4	-5.21	5.21	-5.15	5.15
NF	—	—	—	—
NS	-5.21	5.21	-5.18	5.18



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

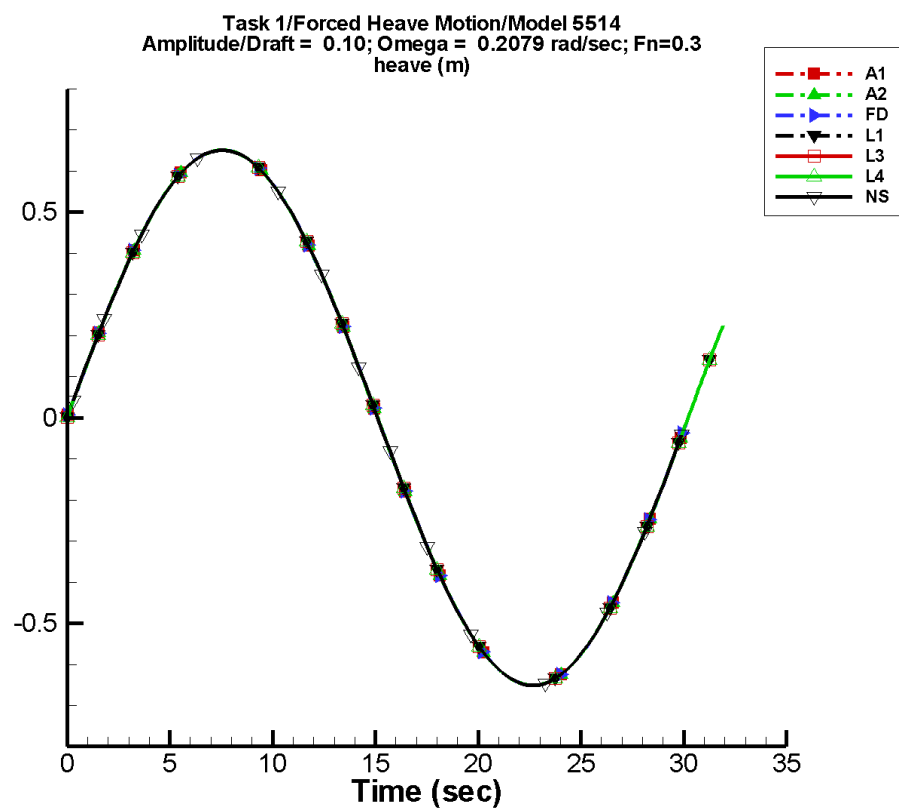
Table B–31. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-2.71E-07	0.326	0	3.25E-07	-17
A2	-2.71E-07	0.326	0	3.25E-07	-17
FD	-9.01E-09	0.326	0	1.65E-08	-58
L1	7.76E-07	0.326	0	5.69E-08	103
L3	7.76E-07	0.326	0	5.69E-08	103
L4	7.76E-07	0.326	0	5.69E-08	103
NF	—	—	—	—	—
NS	2.45E-08	0.326	0	2.20E-08	29

Table B–32. Minimum and maximum 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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.326	0.326
A2	-0.326	0.326	-0.326	0.326
FD	-0.325	0.325	-0.325	0.325
L1	-0.326	0.326	-0.326	0.326
L3	-0.326	0.326	-0.326	0.326
L4	-0.326	0.326	-0.326	0.326
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

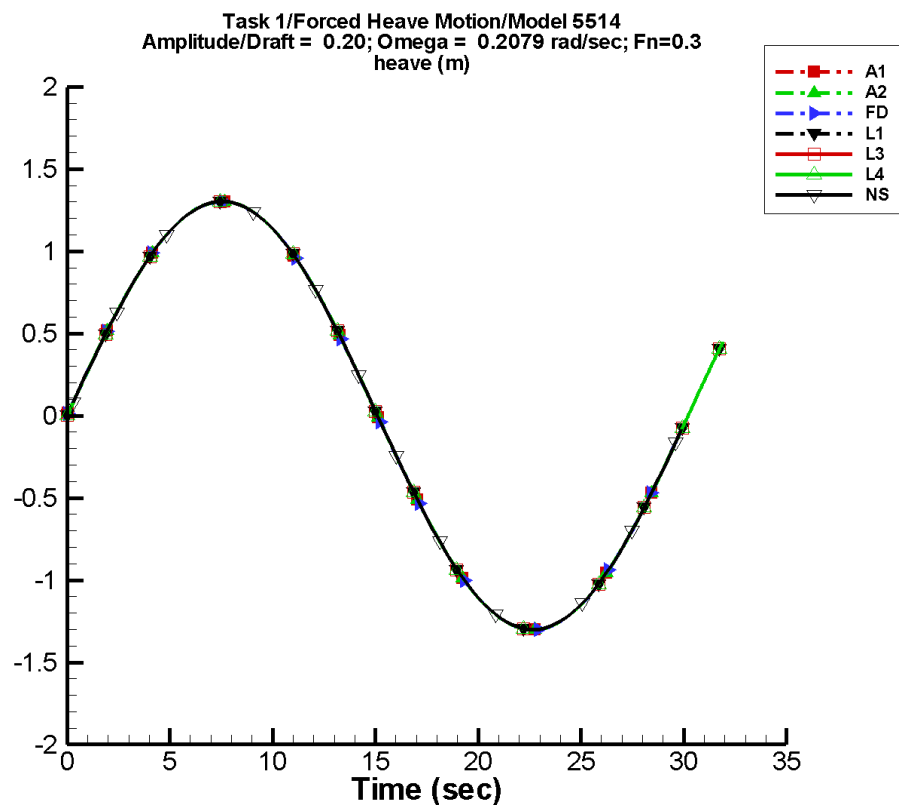
Table B–33. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-4.18E-07	0.651	0	6.76E-07	-21
A2	-4.18E-07	0.651	0	6.76E-07	-21
FD	-2.03E-08	0.651	0	4.10E-08	-8
L1	2.47E-06	0.651	0	1.07E-07	-66
L3	2.47E-06	0.651	0	1.07E-07	-66
L4	2.47E-06	0.651	0	1.07E-07	-66
NF	—	—	—	—	—
NS	5.12E-08	0.651	0	4.04E-08	-2

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.651	0.651	-0.650	0.651
A2	-0.651	0.651	-0.650	0.651
FD	-0.651	0.651	-0.650	0.650
L1	-0.651	0.651	-0.651	0.651
L3	-0.651	0.651	-0.651	0.651
L4	-0.651	0.651	-0.651	0.651
NF	—	—	—	—
NS	-0.651	0.651	-0.645	0.645

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

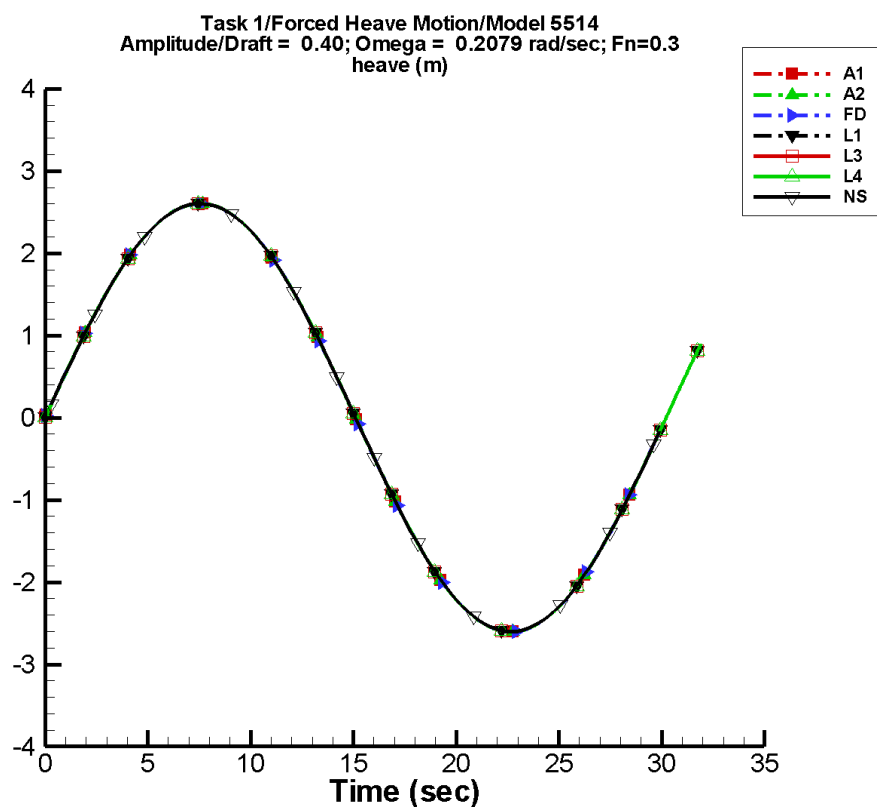
Table B–35. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-9.15E-07	1.30	0	1.35E-06	-24
A2	-9.15E-07	1.30	0	1.35E-06	-24
FD	-5.63E-08	1.30	0	1.02E-07	-19
L1	4.73E-06	1.30	0	2.02E-07	66
L3	4.73E-06	1.30	0	2.02E-07	66
L4	4.73E-06	1.30	0	2.02E-07	66
NF	—	—	—	—	—
NS	1.12E-07	1.30	0	1.12E-07	8

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.30	1.30
A2	-1.30	1.30	-1.30	1.30
FD	-1.30	1.30	-1.30	1.30
L1	-1.30	1.30	-1.30	1.30
L3	-1.30	1.30	-1.30	1.30
L4	-1.30	1.30	-1.30	1.30
NF	—	—	—	—
NS	-1.30	1.30	-1.29	1.29

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

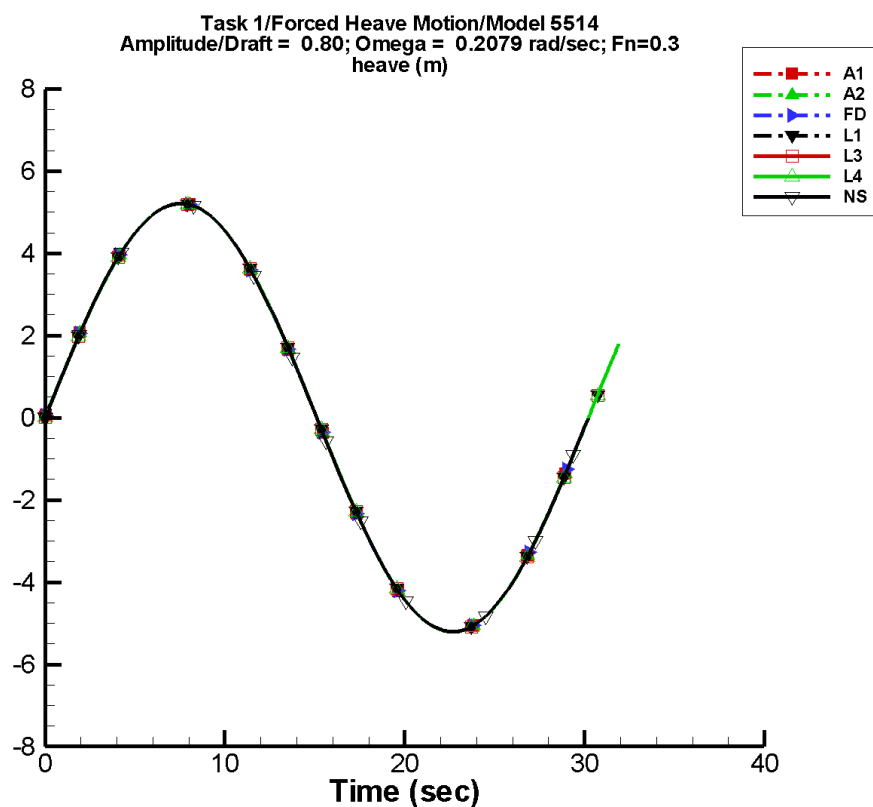
Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-1.59E-06	2.60	0	2.76E-06	-25
A2	-1.59E-06	2.60	0	2.76E-06	-25
FD	-6.34E-08	2.60	0	9.55E-08	-164
L1	9.47E-06	2.60	0	7.32E-08	-94
L3	9.47E-06	2.60	0	7.32E-08	-94
L4	9.47E-06	2.60	0	7.32E-08	-94
NF	—	—	—	—	—
NS	2.17E-07	2.60	0	1.28E-07	12

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.60	2.60
A2	-2.60	2.60	-2.60	2.60
FD	-2.60	2.60	-2.60	2.60
L1	-2.60	2.60	-2.60	2.60
L3	-2.60	2.60	-2.60	2.60
L4	-2.60	2.60	-2.60	2.60
NF	—	—	—	—
NS	-2.60	2.60	-2.58	2.58



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

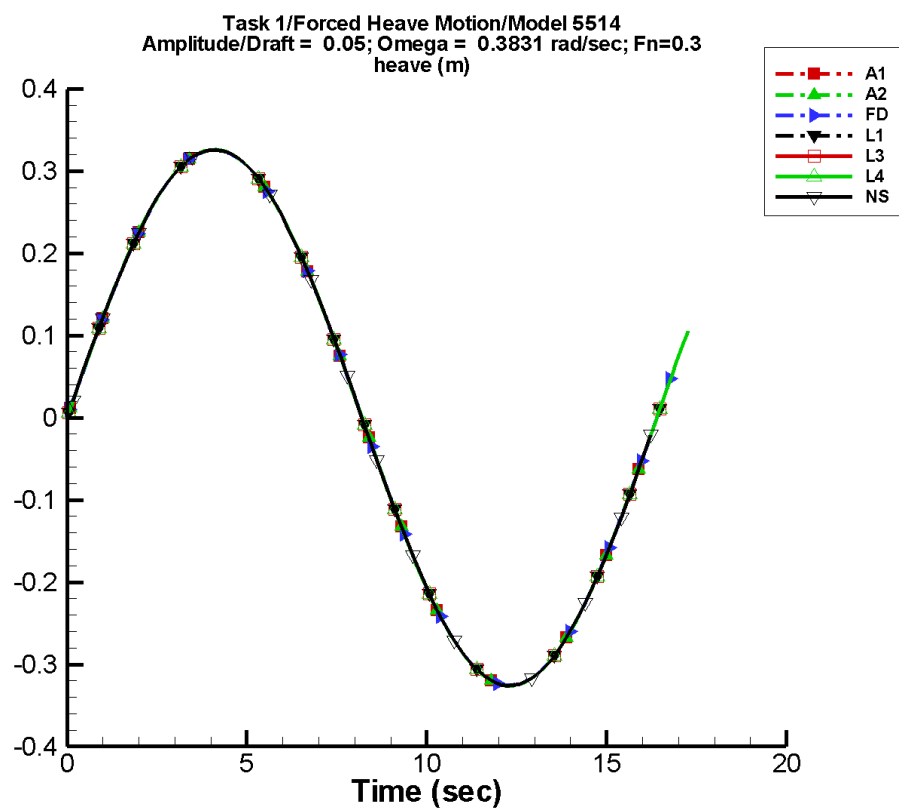
Table B–39. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-3.38E-06	5.21	0	5.44E-06	-23
A2	-3.38E-06	5.21	0	5.44E-06	-23
FD	-8.20E-08	5.21	0	8.13E-08	-12
L1	1.95E-05	5.21	0	6.23E-07	-46
L3	1.95E-05	5.21	0	6.23E-07	-46
L4	1.95E-05	5.21	0	6.23E-07	-46
NF	—	—	—	—	—
NS	-3.48E-07	5.21	0	4.66E-07	52

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.21	5.21	-5.20	5.21
A2	-5.21	5.21	-5.20	5.21
FD	-5.21	5.21	-5.20	5.20
L1	-5.21	5.21	-5.21	5.21
L3	-5.21	5.21	-5.21	5.21
L4	-5.21	5.21	-5.21	5.21
NF	—	—	—	—
NS	-5.21	5.21	-5.18	5.18

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

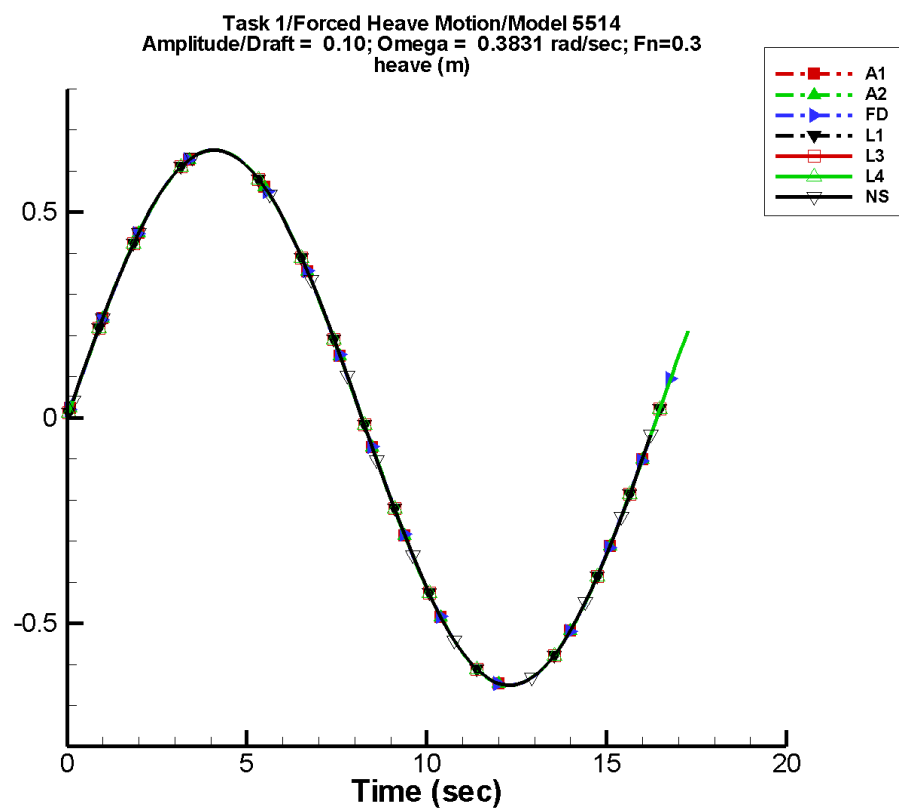
Table B–41. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	1.07E-08	0.326	0	3.45E-08	-35
A2	1.07E-08	0.326	0	3.45E-08	-35
FD	-3.63E-08	0.325	0	3.98E-08	-89
L1	1.17E-06	0.326	0	4.68E-08	-30
L3	1.17E-06	0.326	0	4.68E-08	-30
L4	1.17E-06	0.326	0	4.68E-08	-30
NF	—	—	—	—	—
NS	5.69E-11	0.326	0	2.62E-08	-146

Table B–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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.325	0.327
A2	-0.326	0.326	-0.325	0.327
FD	-0.325	0.325	-0.324	0.324
L1	-0.326	0.326	-0.326	0.326
L3	-0.326	0.326	-0.326	0.326
L4	-0.326	0.326	-0.326	0.326
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	5.57E-08	0.651	0	2.39E-08	-175
A2	5.57E-08	0.651	0	2.39E-08	-175
FD	-6.28E-08	0.651	0	6.72E-08	-90
L1	2.20E-06	0.651	0	6.72E-08	78
L3	2.20E-06	0.651	0	6.72E-08	78
L4	2.20E-06	0.651	0	6.72E-08	78
NF	—	—	—	—	—
NS	-4.91E-08	0.651	0	7.48E-08	177

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.651	0.651	-0.649	0.653
A2	-0.651	0.651	-0.649	0.653
FD	-0.651	0.651	-0.649	0.649
L1	-0.651	0.651	-0.650	0.650
L3	-0.651	0.651	-0.650	0.650
L4	-0.651	0.651	-0.650	0.650
NF	—	—	—	—
NS	-0.651	0.651	-0.644	0.644

# TASK 1/HEAVE MOTION/MODEL 5514

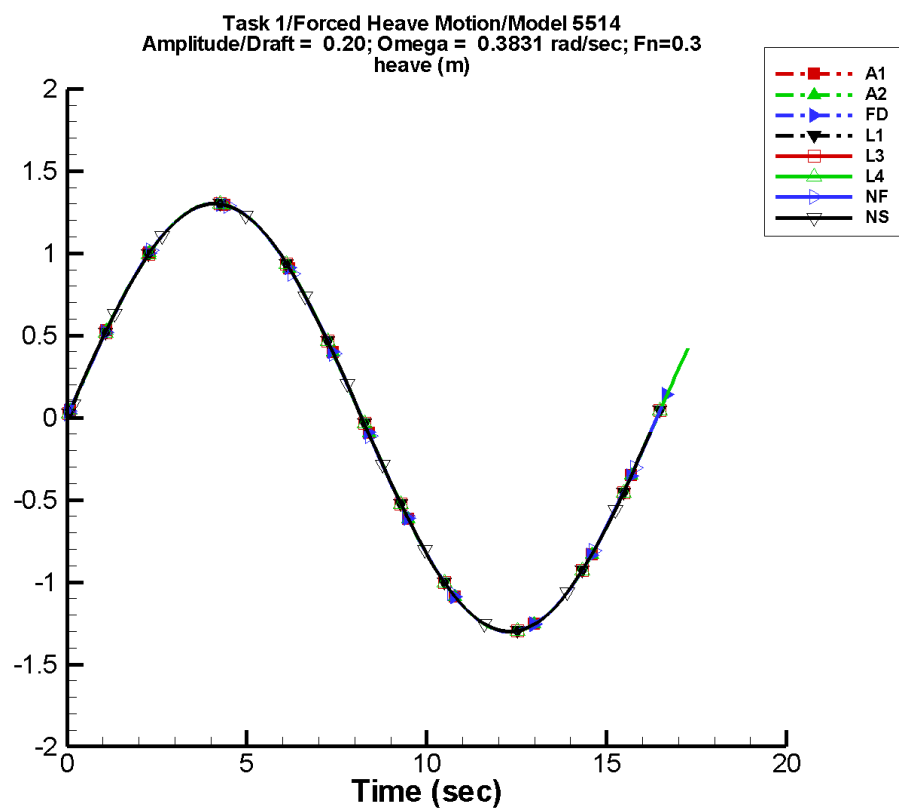


Figure B-23. Time history of  $z_e$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	5.08E-08	1.30	0	5.27E-08	98
A2	5.08E-08	1.30	0	5.27E-08	98
FD	-1.55E-07	1.30	0	9.91E-08	-105
L1	4.34E-06	1.30	0	2.58E-07	62
L3	4.34E-06	1.30	0	2.58E-07	62
L4	4.34E-06	1.30	0	2.58E-07	62
NF	-5.68E-03	1.30	12	1.48E-02	-126
NS	-8.38E-08	1.30	0	1.73E-07	-157

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.30	1.31
A2	-1.30	1.30	-1.30	1.31
FD	-1.30	1.30	-1.30	1.30
L1	-1.30	1.30	-1.30	1.30
L3	-1.30	1.30	-1.30	1.30
L4	-1.30	1.30	-1.30	1.30
NF	-1.30	1.30	-1.29	1.29
NS	-1.30	1.30	-1.29	1.29



# TASK 1/HEAVE MOTION/MODEL 5514

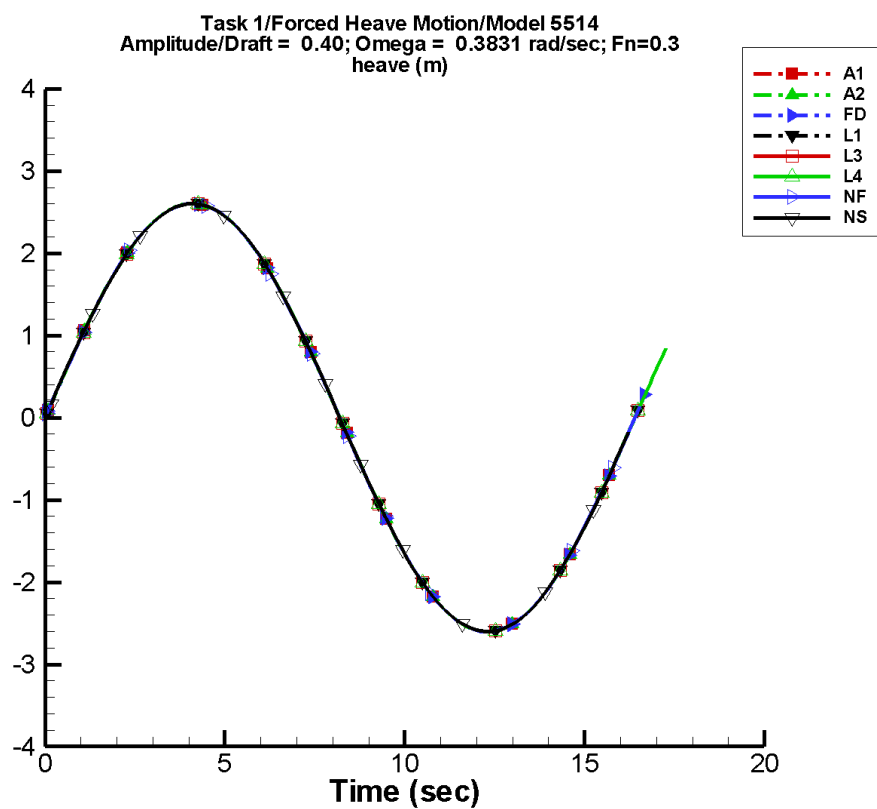


Figure B-24. Time history of  $z_e$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	2.82E-07	2.60	0	3.77E-08	49
A2	2.82E-07	2.60	0	3.77E-08	49
FD	-2.65E-07	2.60	0	3.31E-07	-93
L1	8.71E-06	2.60	0	2.53E-07	30
L3	8.71E-06	2.60	0	2.53E-07	30
L4	8.71E-06	2.60	0	2.53E-07	30
NF	-1.13E-02	2.59	12	2.94E-02	-127
NS	-2.53E-07	2.60	0	2.51E-07	179

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.59	2.61
A2	-2.60	2.60	-2.59	2.61
FD	-2.60	2.60	-2.59	2.59
L1	-2.60	2.60	-2.60	2.60
L3	-2.60	2.60	-2.60	2.60
L4	-2.60	2.60	-2.60	2.60
NF	-2.60	2.60	-2.59	2.59
NS	-2.60	2.60	-2.58	2.58

# TASK 1/HEAVE MOTION/MODEL 5514

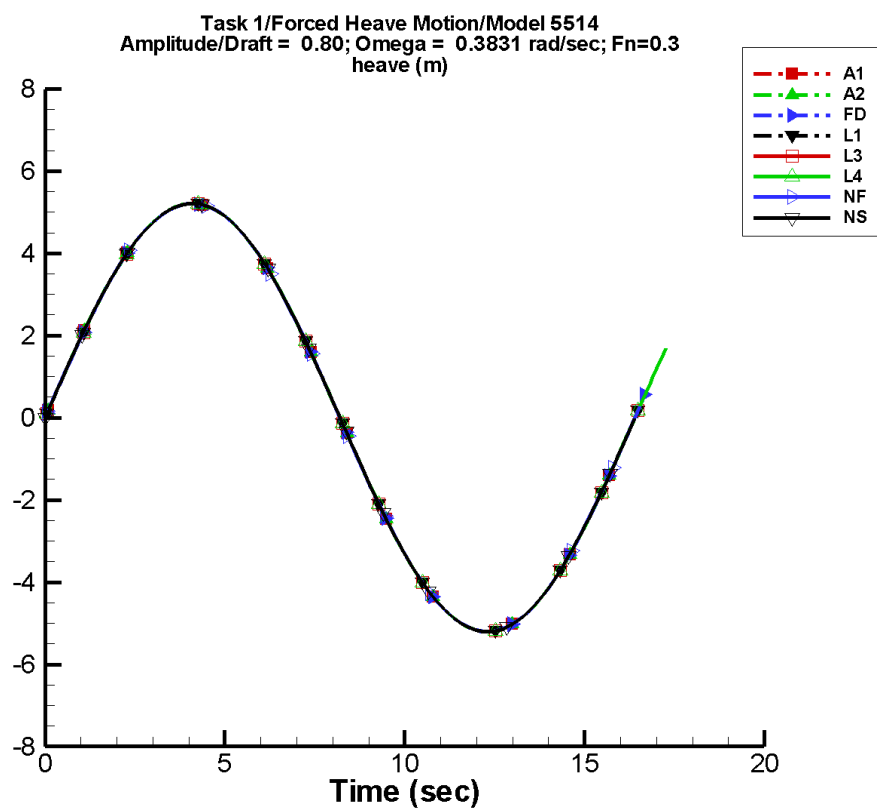


Figure B-25. Time history of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

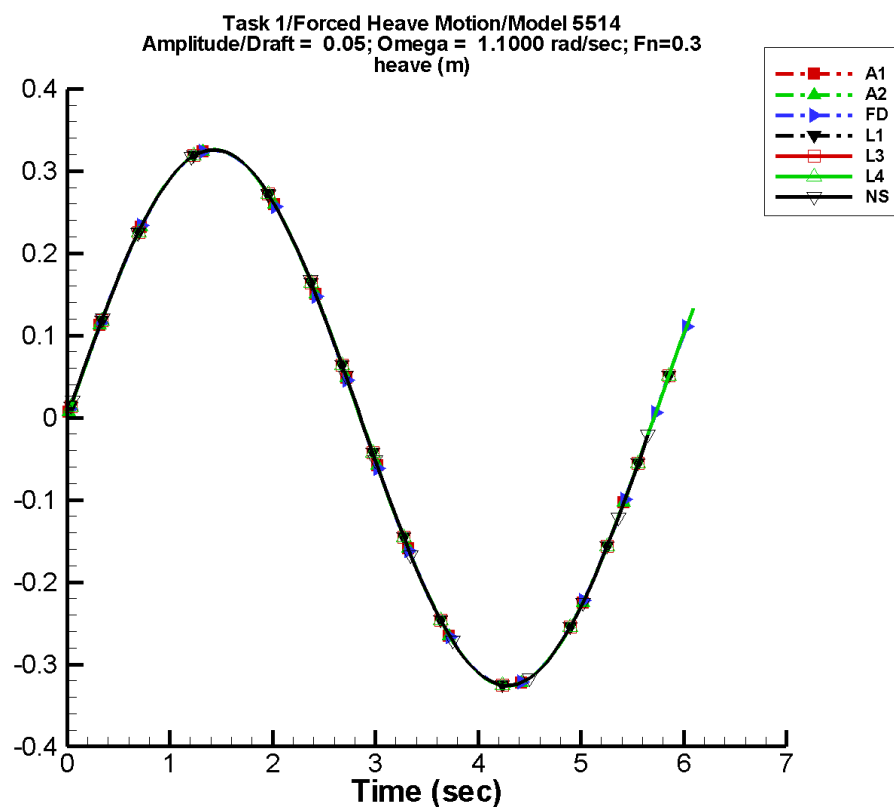
Table B–49. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	2.03E-07	5.21	0	2.11E-07	98
A2	2.03E-07	5.21	0	2.11E-07	98
FD	-5.89E-07	5.21	0	7.28E-07	-93
L1	1.71E-05	5.21	0	8.64E-07	118
L3	1.71E-05	5.21	0	8.64E-07	118
L4	1.71E-05	5.21	0	8.64E-07	118
NF	-2.26E-02	5.19	12	5.88E-02	-127
NS	-3.56E-07	5.21	0	4.37E-07	48

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.21	5.21	-5.19	5.22
A2	-5.21	5.21	-5.19	5.22
FD	-5.21	5.21	-5.19	5.19
L1	-5.21	5.21	-5.20	5.20
L3	-5.21	5.21	-5.20	5.20
L4	-5.21	5.21	-5.20	5.20
NF	-5.21	5.21	-5.17	5.18
NS	-5.21	5.21	-5.18	5.18

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

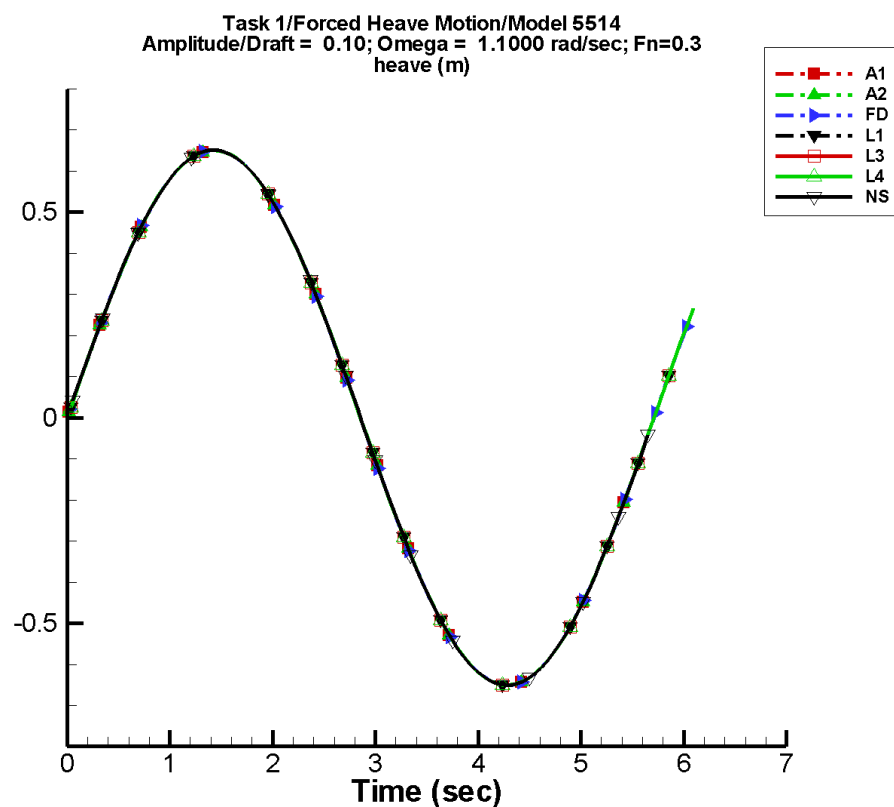
Table B–51. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-3.53E-07	0.326	0	5.46E-07	-11
A2	-3.53E-07	0.326	0	5.46E-07	-11
FD	-4.81E-08	0.326	0	7.75E-08	-8
L1	3.00E-07	0.326	0	3.84E-08	3
L3	3.00E-07	0.326	0	3.84E-08	3
L4	3.00E-07	0.326	0	3.84E-08	3
NF	—	—	—	—	—
NS	-1.02E-08	0.326	0	2.08E-08	-123

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.326	0.326	-0.316	0.318
A2	-0.326	0.326	-0.316	0.318
FD	-0.325	0.325	-0.315	0.315
L1	-0.326	0.326	-0.322	0.322
L3	-0.326	0.326	-0.322	0.322
L4	-0.326	0.326	-0.322	0.322
NF	—	—	—	—
NS	-0.326	0.326	-0.323	0.323

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-7.02E-07	0.651	0	1.04E-06	-11
A2	-7.02E-07	0.651	0	1.04E-06	-11
FD	-1.42E-07	0.651	0	1.27E-07	4
L1	8.97E-07	0.651	0	1.18E-07	54
L3	8.97E-07	0.651	0	1.18E-07	54
L4	8.97E-07	0.651	0	1.18E-07	54
NF	—	—	—	—	—
NS	-1.30E-08	0.651	0	3.00E-08	-152

Table B–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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-0.650	0.651	-0.631	0.635
A2	-0.650	0.651	-0.631	0.635
FD	-0.650	0.651	-0.630	0.630
L1	-0.651	0.651	-0.644	0.644
L3	-0.651	0.651	-0.644	0.644
L4	-0.651	0.651	-0.644	0.644
NF	—	—	—	—
NS	-0.651	0.651	-0.644	0.644



# TASK 1/HEAVE MOTION/MODEL 5514

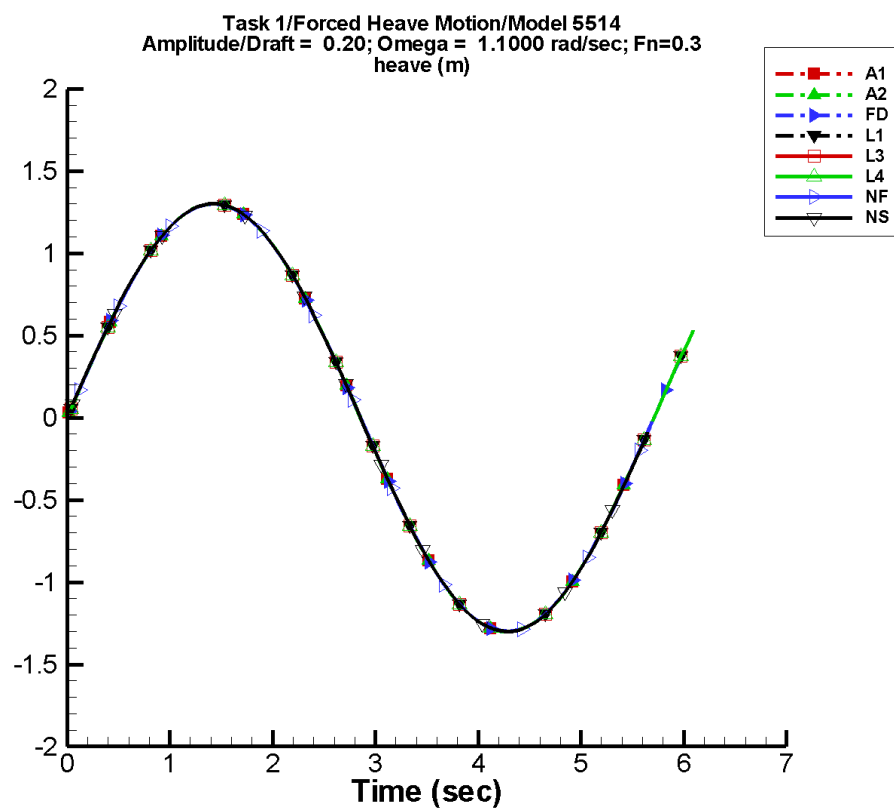


Figure B-28. Time history of  $z_e$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-1.29E-06	1.30	0	2.06E-06	-12
A2	-1.29E-06	1.30	0	2.06E-06	-12
FD	-2.38E-07	1.30	0	2.98E-07	5
L1	2.14E-06	1.30	0	1.88E-07	-45
L3	2.14E-06	1.30	0	1.88E-07	-45
L4	2.14E-06	1.30	0	1.88E-07	-45
NF	2.60E-04	1.30	4	3.00E-04	120
NS	-6.14E-08	1.30	0	4.63E-08	-145

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-1.30	1.30	-1.26	1.27
A2	-1.30	1.30	-1.26	1.27
FD	-1.30	1.30	-1.26	1.26
L1	-1.30	1.30	-1.29	1.29
L3	-1.30	1.30	-1.29	1.29
L4	-1.30	1.30	-1.29	1.29
NF	-1.30	1.30	-1.24	1.24
NS	-1.30	1.30	-1.29	1.29

# TASK 1/HEAVE MOTION/MODEL 5514

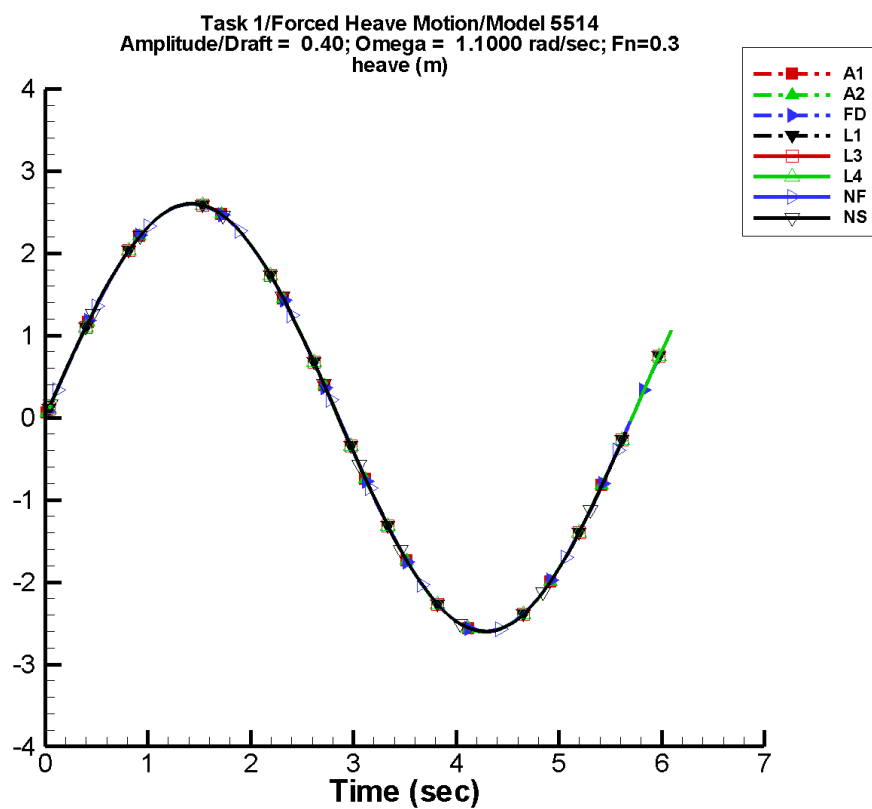


Figure B-29. Time history of  $z_e$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-2.76E-06	2.60	0	4.13E-06	-10
A2	-2.76E-06	2.60	0	4.13E-06	-10
FD	-4.86E-07	2.60	0	5.69E-07	7
L1	3.43E-06	2.60	0	8.37E-07	35
L3	3.43E-06	2.60	0	8.37E-07	35
L4	3.43E-06	2.60	0	8.37E-07	35
NF	-1.77E-04	2.60	-1	4.25E-05	-166
NS	-1.43E-07	2.60	0	8.72E-08	-147

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-2.60	2.60	-2.52	2.54
A2	-2.60	2.60	-2.52	2.54
FD	-2.60	2.60	-2.52	2.52
L1	-2.60	2.60	-2.57	2.57
L3	-2.60	2.60	-2.57	2.57
L4	-2.60	2.60	-2.57	2.57
NF	-2.60	2.60	-2.47	2.48
NS	-2.60	2.60	-2.58	2.58

# TASK 1/HEAVE MOTION/MODEL 5514

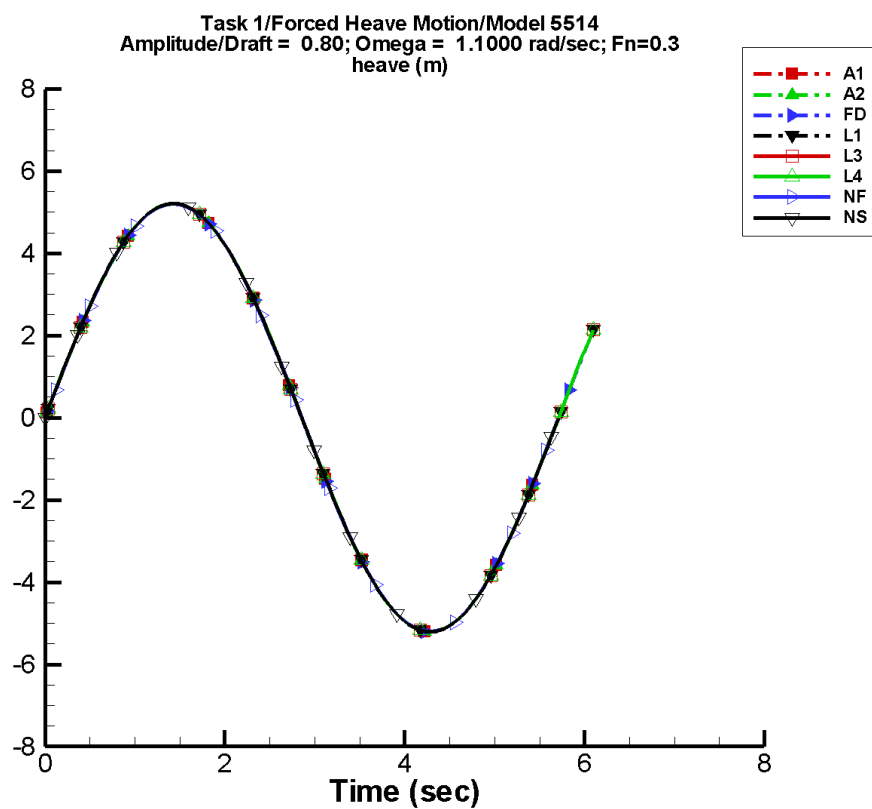


Figure B–30. Time history of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

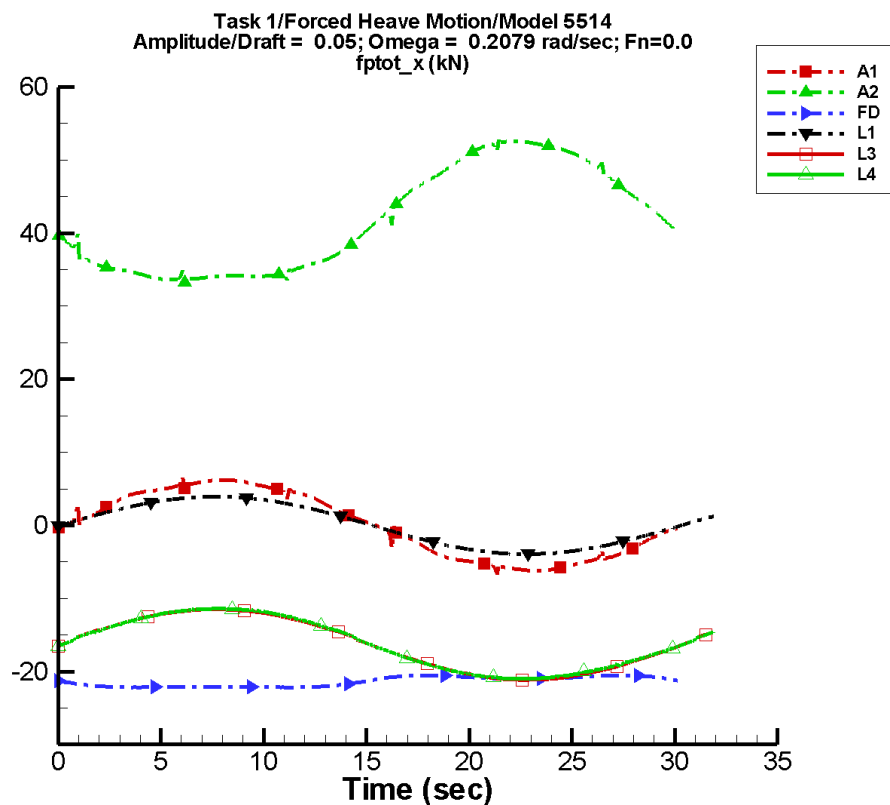
Table B–59. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $z_e$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (m)	$a_1$ (m)	$\Phi_1$ (deg)	$a_2$ (m)	$\Phi_2$ (deg)
A1	-5.43E-06	5.21	0	8.07E-06	-12
A2	-5.43E-06	5.21	0	8.07E-06	-12
FD	-8.83E-07	5.21	0	1.24E-06	2
L1	6.98E-06	5.21	0	1.51E-06	35
L3	6.98E-06	5.21	0	1.51E-06	35
L4	6.98E-06	5.21	0	1.51E-06	35
NF	1.04E-03	5.20	4	1.20E-03	120
NS	5.07E-07	5.21	0	1.40E-07	35

Table B–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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (m)	Maximum (m)	Minimum (m)	Maximum (m)
A1	-5.20	5.21	-5.04	5.08
A2	-5.20	5.21	-5.04	5.08
FD	-5.20	5.21	-5.04	5.04
L1	-5.21	5.21	-5.15	5.15
L3	-5.21	5.21	-5.15	5.15
L4	-5.21	5.21	-5.15	5.15
NF	-5.21	5.20	-4.95	4.96
NS	-5.21	5.21	-5.18	5.18

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-31. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

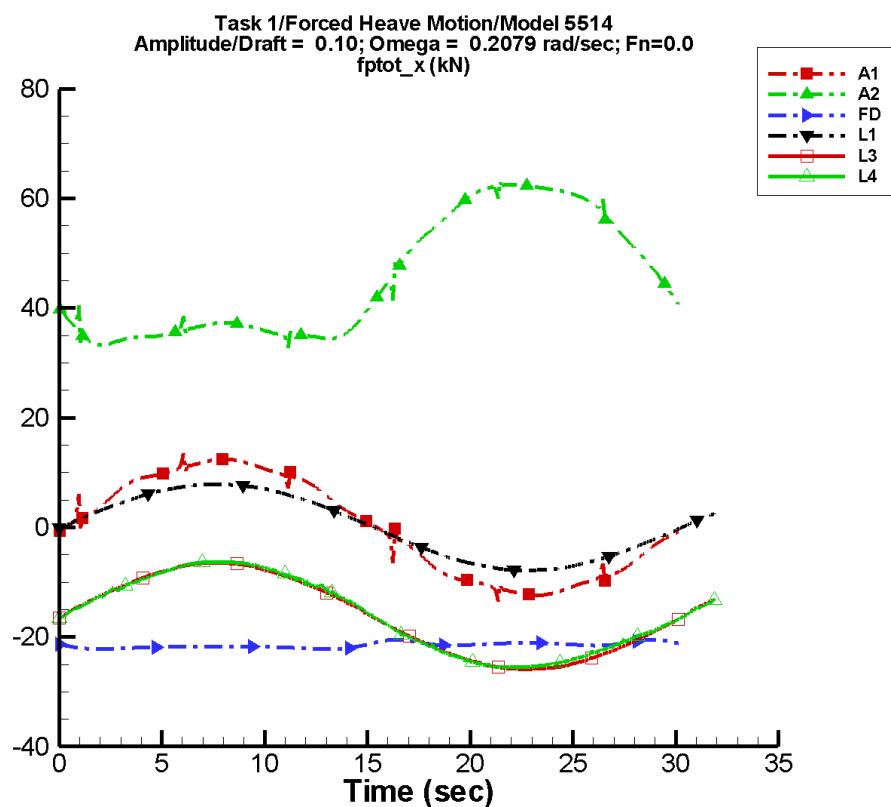
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.91E-03	6.08	-3	4.86E-03	147
A2	41.6	9.70	-178	1.62	-92
FD	-21.4	0.828	-177	0.120	74
L1	7.53E-03	3.93	-2	5.39E-03	84
L3	-16.3	4.87	-1	2.05E-02	77
L4	-16.2	4.85	-1	0.102	-163
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–62. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.74	6.73	-6.19	6.22
A2	33.2	52.8	33.6	52.5
FD	-22.2	-20.5	-22.2	-20.5
L1	-3.93	3.95	-3.92	3.94
L3	-21.1	-11.5	-21.1	-11.5
L4	-21.0	-11.4	-21.0	-11.4
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-32. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

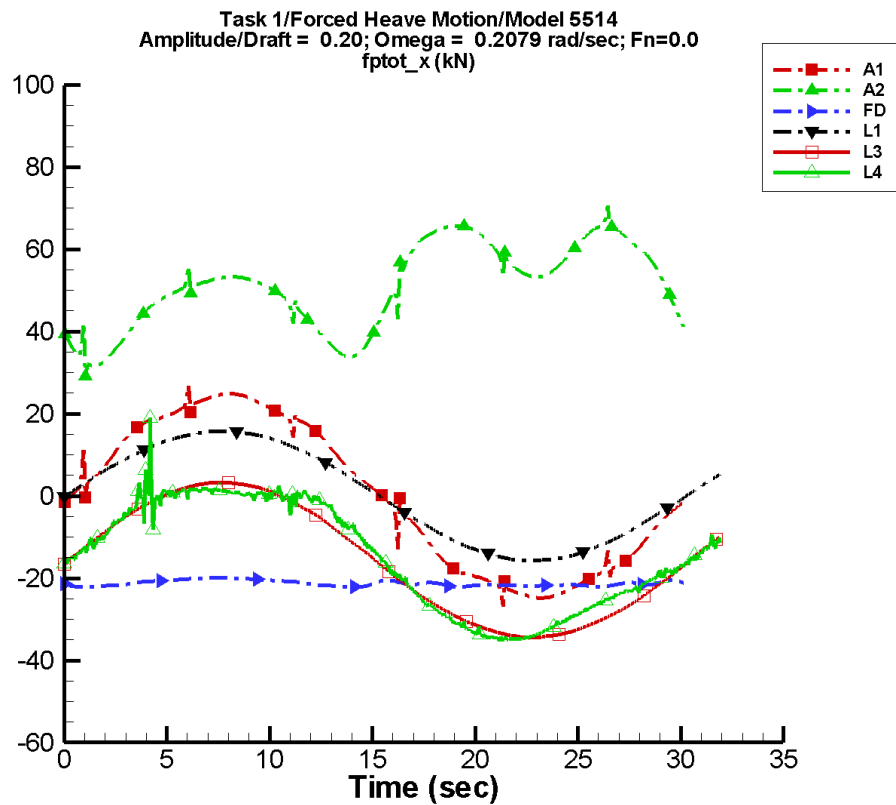
Table B–63. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.80E-03	12.1	-3	9.70E-03	147
A2	45.3	14.5	-179	5.13	-94
FD	-21.5	0.403	-173	2.66E-02	53
L1	3.00E-02	7.86	-2	2.57E-02	88
L3	-16.2	9.66	-1	3.52E-02	-89
L4	-16.0	9.53	-1	0.394	-162
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–64. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-13.5	13.4	-12.4	12.4
A2	32.7	63.2	33.1	62.5
FD	-22.2	-20.5	-22.2	-20.5
L1	-7.84	7.88	-7.83	7.88
L3	-25.9	-6.44	-25.8	-6.45
L4	-25.5	-6.29	-25.5	-6.31
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–33. Time history of  $F_x^{ptot}$  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 5514 scaled to  $L = 142$  m.

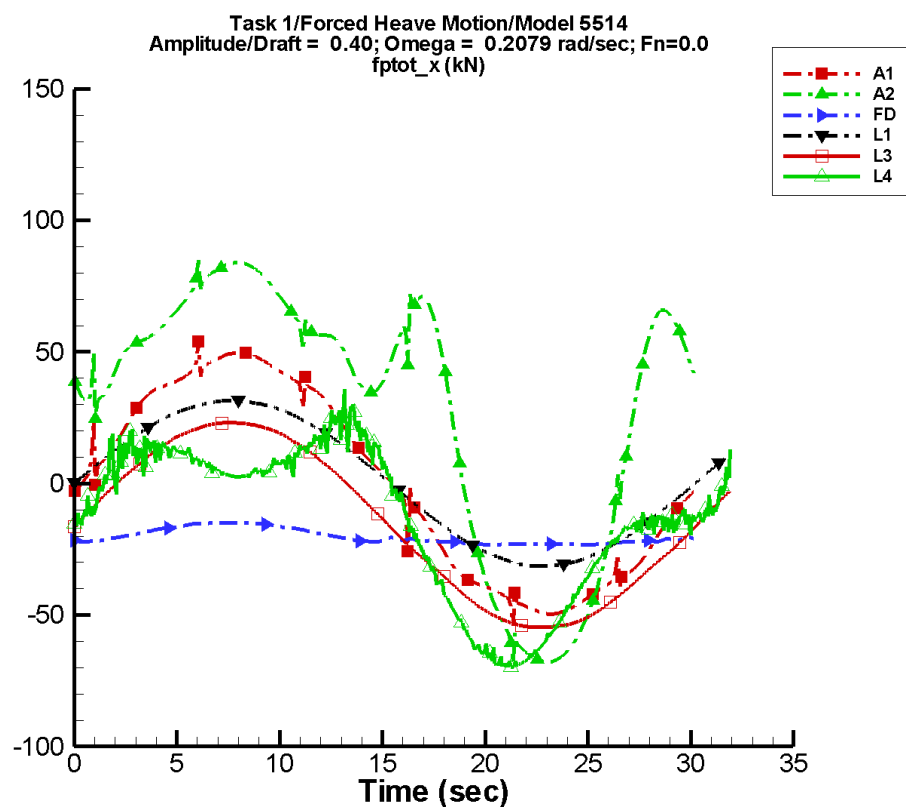
Table B–65. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.16E-02	24.3	-3	1.94E-02	147
A2	50.6	8.19	-169	7.70	-95
FD	-21.3	0.618	-7	0.390	-85
L1	0.120	15.7	-2	0.112	90
L3	-15.8	18.9	-1	0.263	-92
L4	-15.1	18.3	0	1.64	149
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–66. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-26.9	26.9	-24.7	24.8
A2	28.9	70.5	32.0	66.3
FD	-22.2	-20.0	-22.1	-20.0
L1	-15.7	15.8	-15.7	15.8
L3	-34.5	3.28	-34.5	3.27
L4	-35.2	19.0	-34.8	1.91
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-34. Time history of  $F_x^{ptot}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

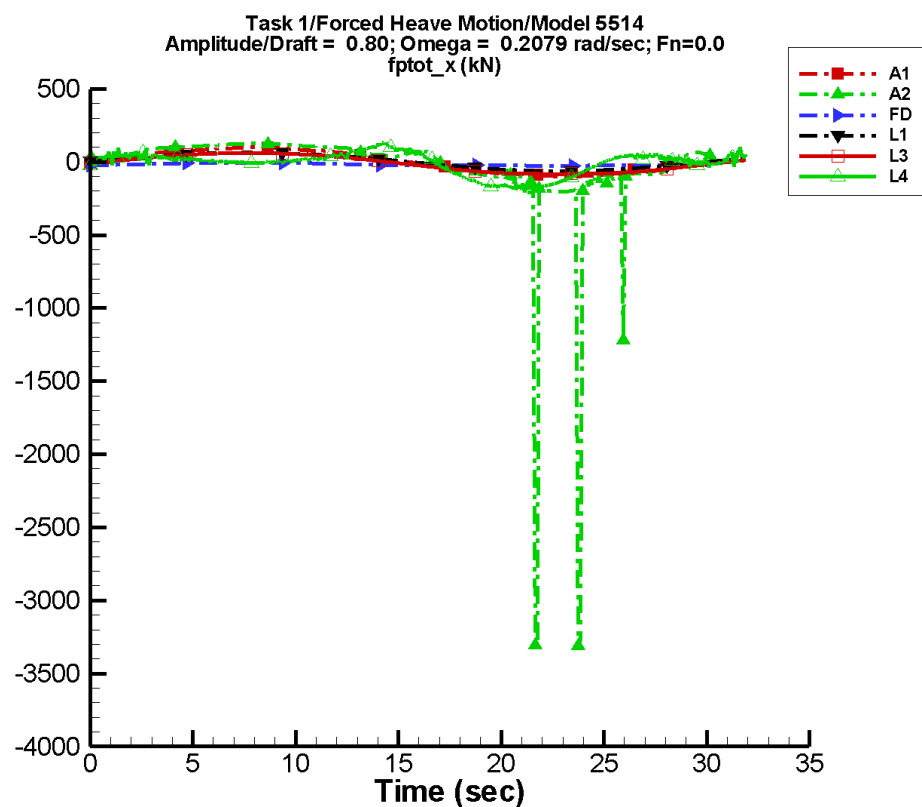
Table B–67. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.32E-02	48.5	-3	3.88E-02	147
A2	28.4	57.8	-6	20.1	92
FD	-20.4	3.62	-2	1.43	-87
L1	0.480	31.4	-2	0.464	90
L3	-15.4	38.8	-2	0.293	93
L4	-14.0	34.8	3	15.0	116
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–68. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-53.9	53.8	-49.5	49.7
A2	-68.4	86.7	-67.6	83.8
FD	-23.2	-15.0	-23.2	-15.0
L1	-31.4	31.5	-31.3	31.5
L3	-54.6	23.2	-54.6	23.1
L4	-69.8	49.7	-69.1	24.6
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–35. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

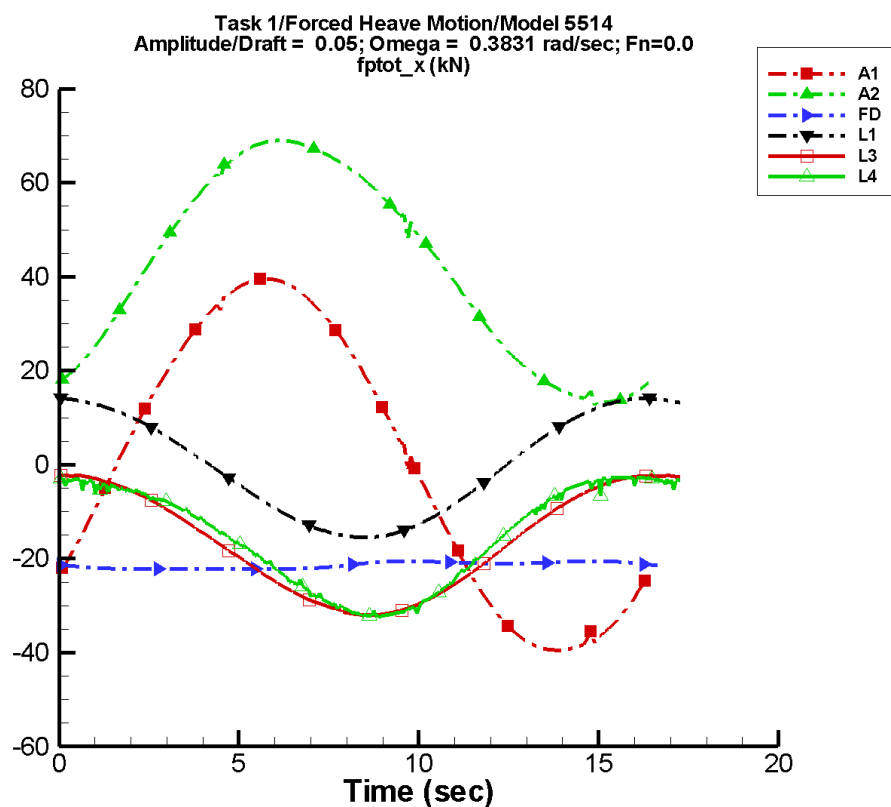
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-4.64E-02	97.1	-3	7.76E-02	147
A2	-41.0	228.	-5	103.	86
FD	-18.0	9.46	-1	3.28	-88
L1	1.92	62.9	-2	1.89	91
L3	-12.1	74.0	-1	0.239	-99
L4	-12.1	63.7	14	65.3	121
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–70. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-108.	108.	-98.9	99.3
A2	-3.31E+03	135.	-990.	126.
FD	-25.2	-5.40	-25.1	-5.42
L1	-62.7	63.1	-62.7	63.0
L3	-82.0	61.0	-81.9	60.9
L4	-183.	135.	-179.	121.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-36. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

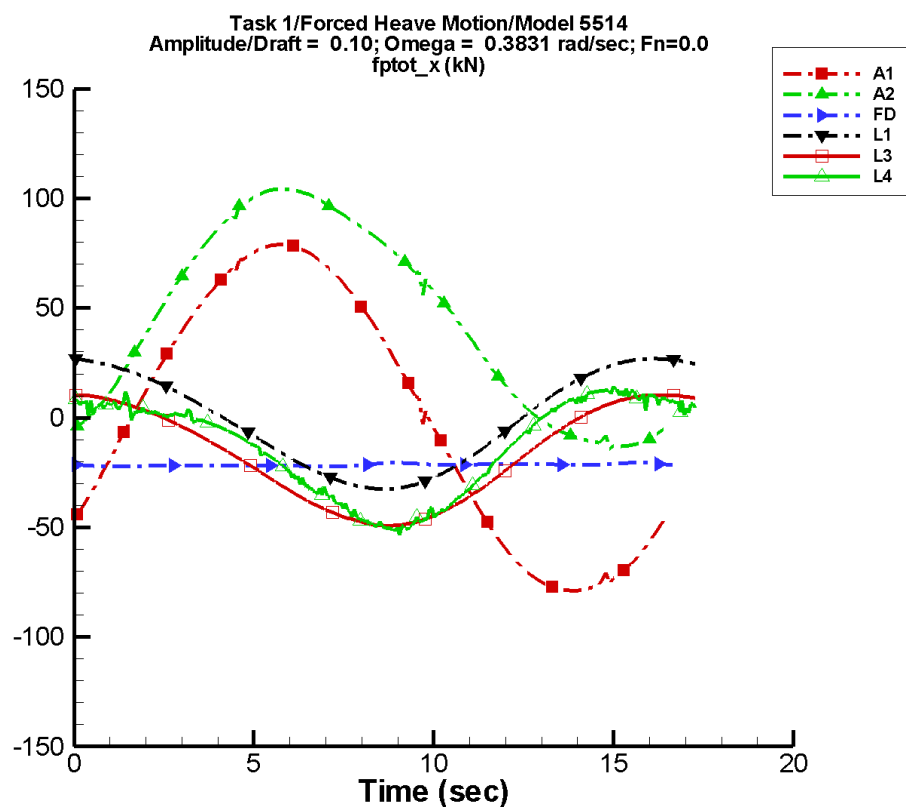
Table B–71. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.111	39.6	-36	0.200	21
A2	41.5	27.9	-54	1.54	-89
FD	-21.4	0.816	-177	0.139	79
L1	-0.446	14.7	87	0.541	-156
L3	-16.7	14.8	84	0.532	-156
L4	-15.6	14.4	83	2.38	-134
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–72. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-39.5	39.6	-39.4	39.4
A2	12.7	69.0	13.6	68.9
FD	-22.2	-20.5	-22.2	-20.5
L1	-15.5	14.1	-15.5	14.1
L3	-32.0	-2.21	-32.0	-2.30
L4	-32.4	-2.69	-32.0	-2.77
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

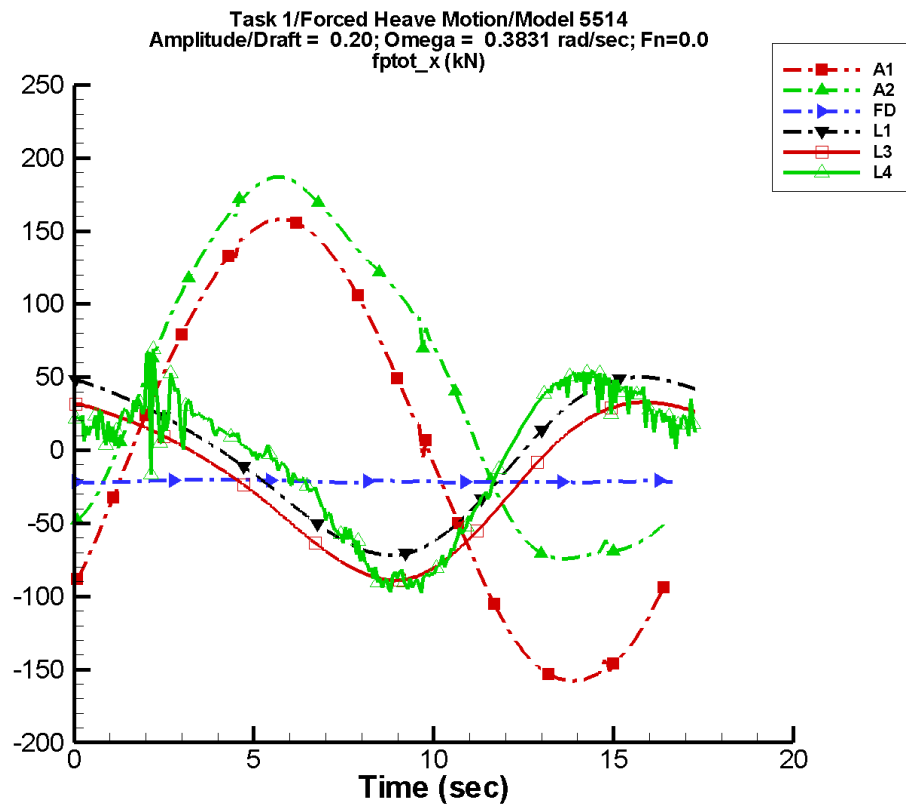
Table B–73. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.222	79.1	-36	0.399	21
A2	45.1	58.9	-50	4.98	-92
FD	-21.5	0.393	-171	4.01E-02	34
L1	-1.75	29.4	87	2.19	-155
L3	-18.0	29.5	84	2.21	-154
L4	-13.6	28.5	84	8.46	-134
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–74. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-78.9	79.0	-78.7	78.7
A2	-14.2	104.	-12.6	104.
FD	-22.2	-20.5	-22.1	-20.6
L1	-32.5	26.9	-32.5	26.9
L3	-49.2	10.4	-49.2	10.4
L4	-53.6	14.2	-50.9	12.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-38. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

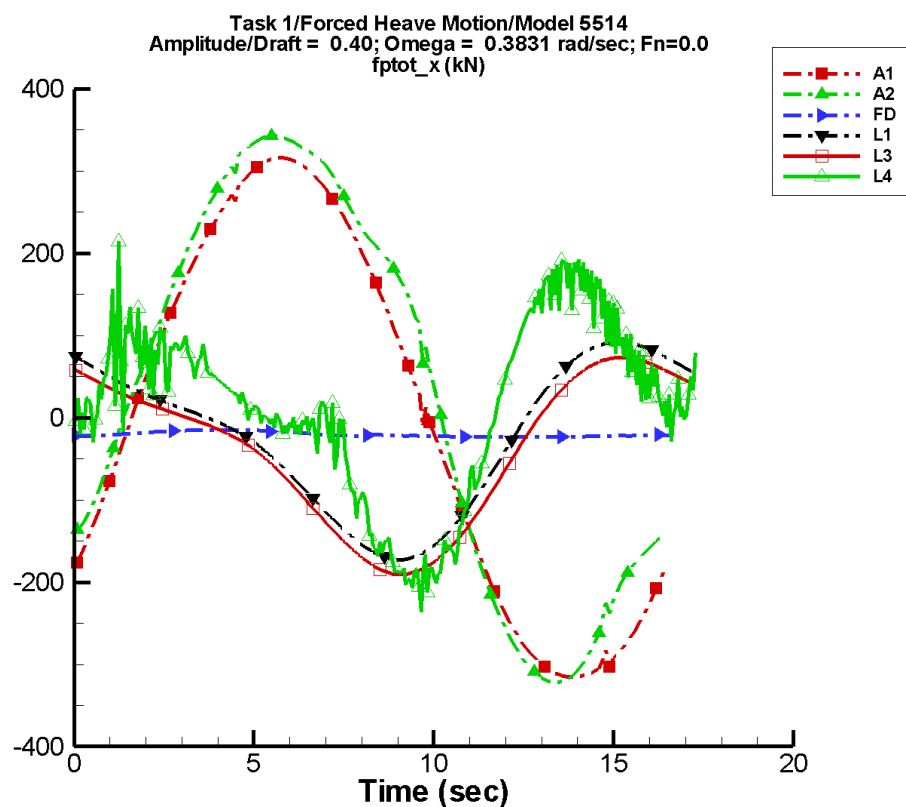
Table B–75. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.443	158.	-36	0.799	21
A2	46.7	132.	-47	10.1	-153
FD	-21.3	0.638	-7	0.373	-83
L1	-6.95	58.9	87	8.81	-155
L3	-22.9	59.0	84	8.98	-153
L4	-5.95	56.2	81	28.1	-132
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–76. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-158.	158.	-157.	157.
A2	-1.15E+03	187.	-89.4	186.
FD	-22.2	-20.0	-22.1	-20.0
L1	-71.9	50.1	-71.8	50.0
L3	-89.0	32.9	-88.9	32.8
L4	-97.8	69.0	-91.4	49.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

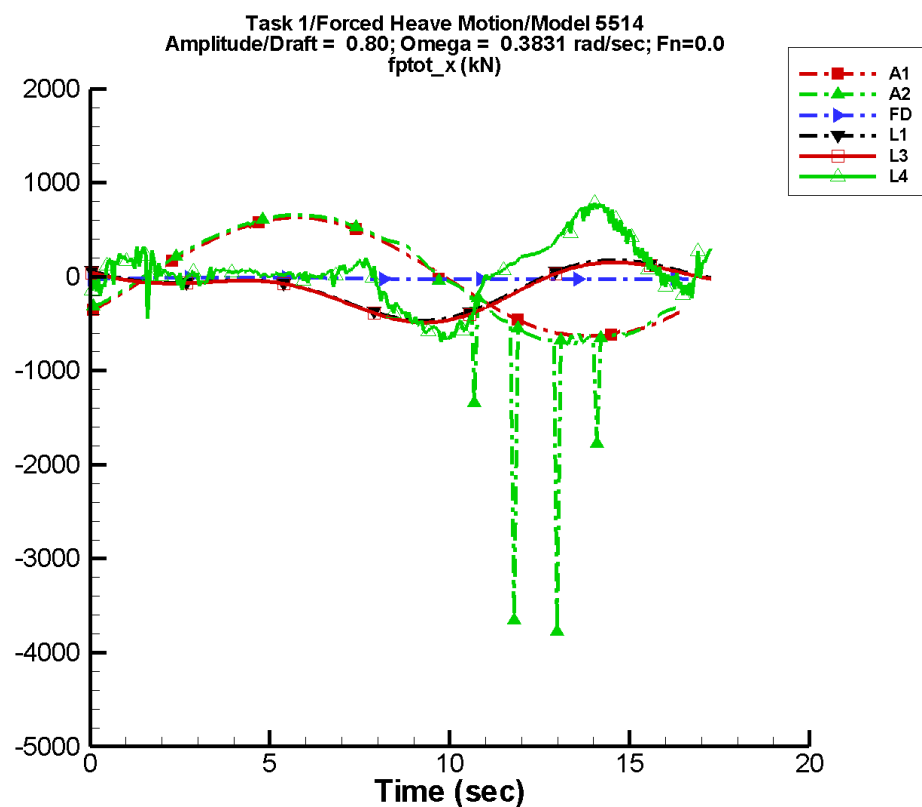
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.886	316.	-36	1.60	21
A2	27.6	326.	-35	20.6	86
FD	-20.4	3.64	-2	1.39	-87
L1	-27.7	118.	87	35.3	-155
L3	-43.6	118.	84	35.4	-154
L4	14.0	114.	84	77.8	-136
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–78. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-316.	316.	-315.	315.
A2	-322.	343.	-320.	341.
FD	-23.2	-15.0	-23.2	-15.1
L1	-173.	91.7	-172.	91.4
L3	-191.	73.1	-190.	72.9
L4	-236.	215.	-198.	174.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-40. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

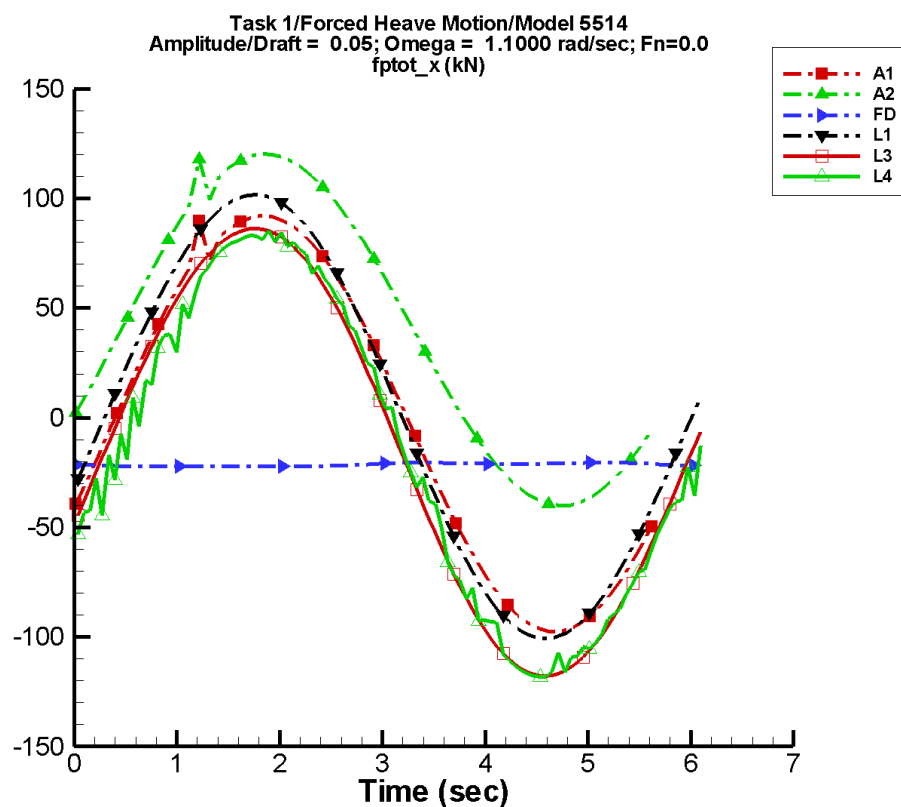
Table B–79. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.77	633.	-36	3.20	21
A2	-49.4	757.	-30	104.	86
FD	-18.0	9.48	-1	3.23	-89
L1	-111.	235.	87	142.	-155
L3	-125.	236.	85	143.	-154
L4	57.8	259.	103	269.	-153
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–80. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-631.	632.	-629.	629.
A2	-3.78E+03	660.	-1.09E+03	658.
FD	-25.2	-5.40	-25.0	-5.50
L1	-466.	177.	-465.	177.
L3	-488.	153.	-487.	152.
L4	-690.	789.	-619.	744.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

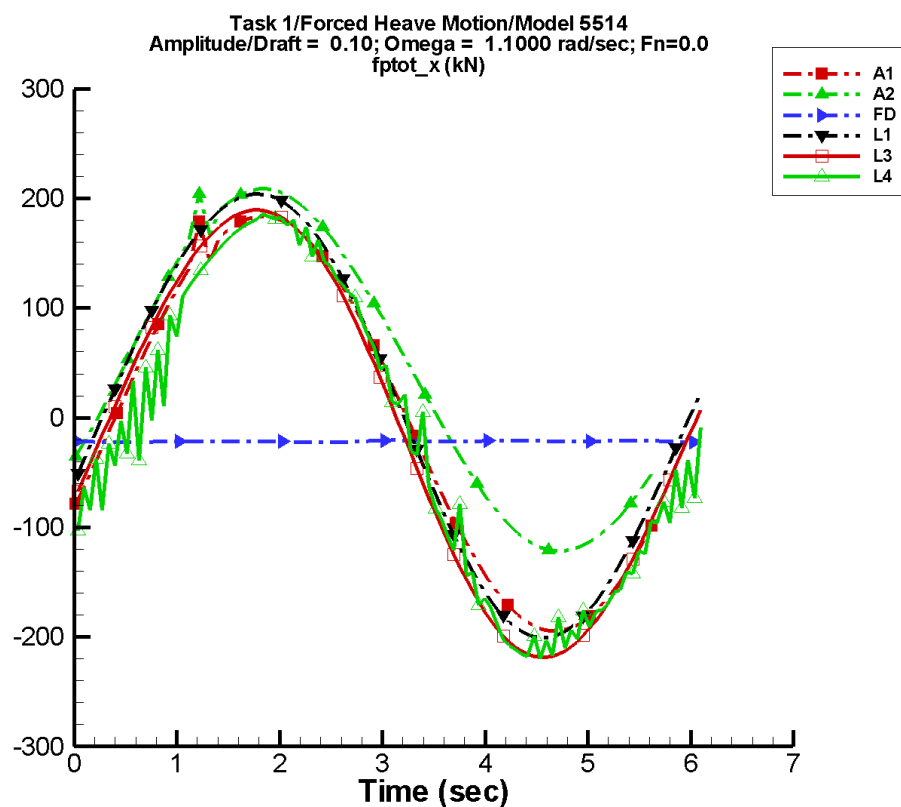
Table B–81. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.40	95.2	-24	1.56	30
A2	40.2	80.4	-28	1.23	-39
FD	-21.4	0.835	-179	7.95E-02	86
L1	1.32	101.	-20	1.40	95
L3	-15.0	102.	-20	1.42	95
L4	-16.4	99.0	-24	3.76	149
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–82. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-97.5	92.0	-94.4	89.2
A2	-40.2	120.	-37.6	118.
FD	-22.2	-20.5	-22.2	-20.6
L1	-101.	102.	-99.6	101.
L3	-118.	86.2	-117.	85.2
L4	-118.	85.1	-116.	82.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

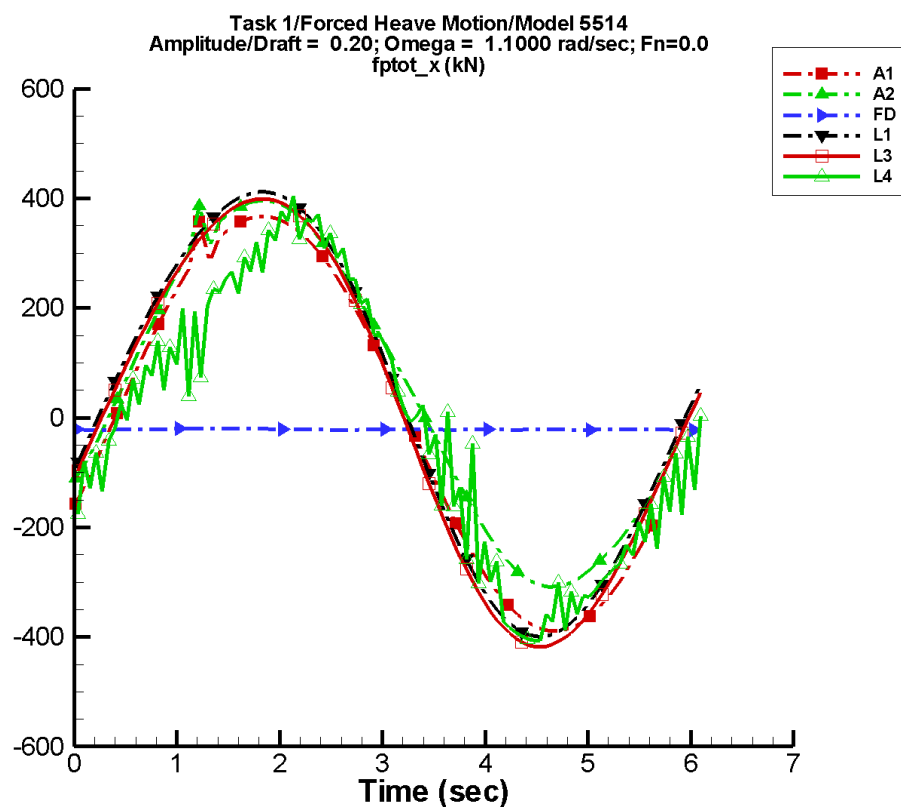
Table B–83. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.79	190.	-24	3.11	30
A2	42.5	165.	-27	3.67	-67
FD	-21.5	0.421	-175	2.40E-02	-42
L1	5.05	202.	-20	5.64	99
L3	-11.2	204.	-20	5.59	99
L4	-17.2	193.	-27	12.7	151
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–84. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-195.	184.	-188.	178.
A2	-122.	209.	-117.	203.
FD	-22.2	-20.5	-22.0	-21.0
L1	-201.	204.	-198.	202.
L3	-219.	190.	-216.	187.
L4	-220.	185.	-210.	181.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

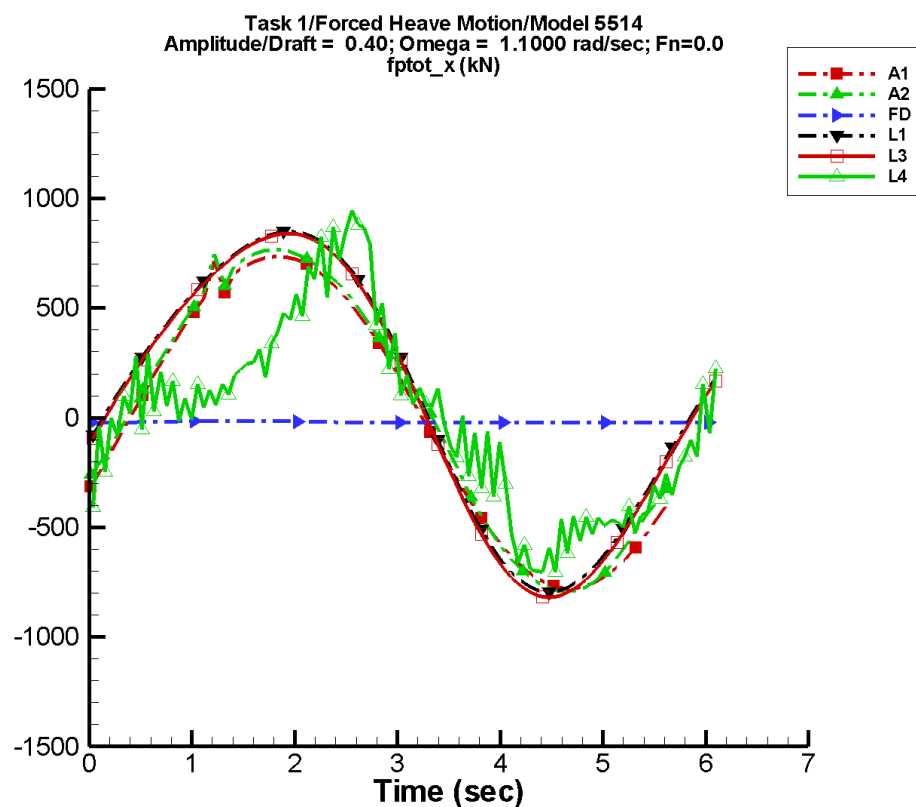
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.58	380.	-24	6.22	30
A2	45.1	350.	-26	5.42	-51
FD	-21.3	0.594	-5	0.429	-86
L1	19.8	404.	-20	22.7	101
L3	3.85	407.	-20	22.4	102
L4	-8.82	347.	-32	45.1	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–86. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-389.	367.	-377.	356.
A2	-309.	396.	-296.	385.
FD	-22.1	-20.0	-21.8	-20.1
L1	-400.	412.	-394.	408.
L3	-418.	399.	-413.	395.
L4	-407.	404.	-387.	362.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-44. Time history 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 5514 scaled to  $L = 142$  m.

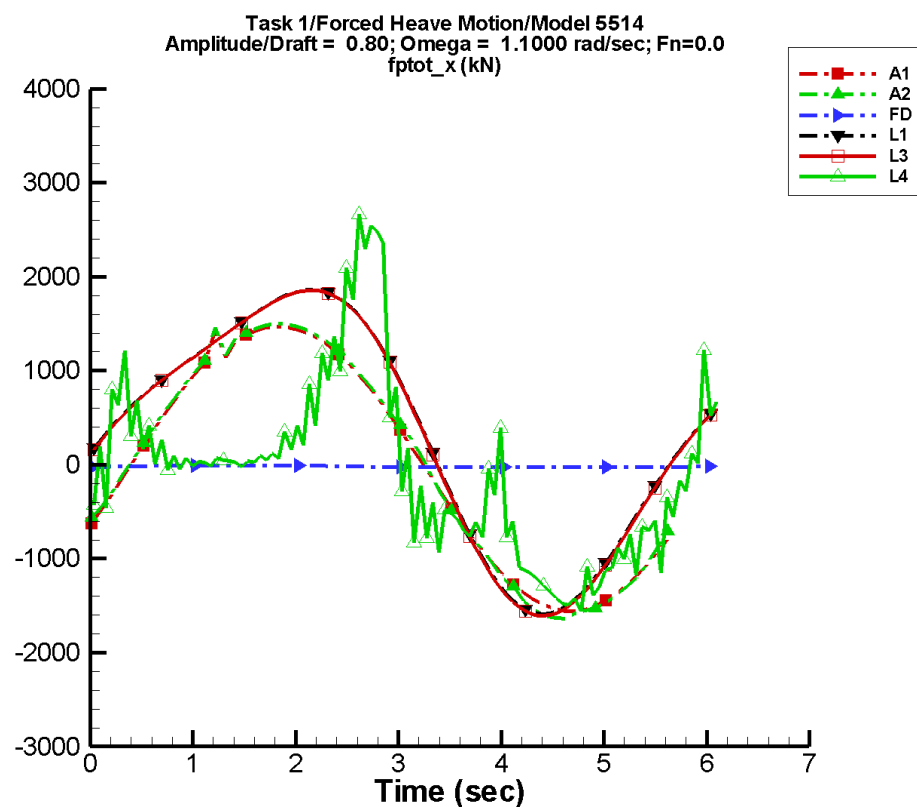
Table B–87. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-11.2	761.	-24	12.4	30
A2	17.1	770.	-24	30.2	63
FD	-20.4	3.59	-1	1.52	-89
L1	78.2	807.	-20	91.2	102
L3	62.3	815.	-20	91.0	102
L4	13.6	551.	-40	204.	98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–88. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-779.	735.	-754.	713.
A2	-793.	767.	-764.	744.
FD	-23.2	-15.0	-23.1	-15.2
L1	-795.	849.	-783.	841.
L3	-819.	839.	-807.	831.
L4	-705.	1.00E+03	-637.	809.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-45. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

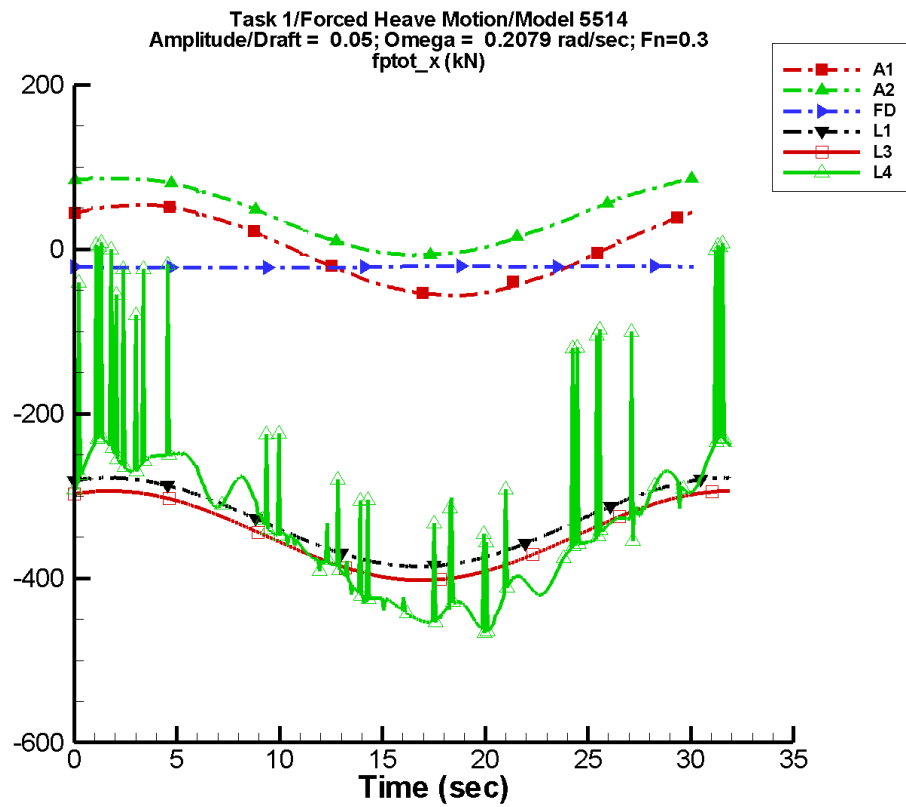
Table B–89. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-22.3	1.52E+03	-24	24.9	30
A2	-13.5	1.56E+03	-24	51.4	57
FD	-18.0	9.45	0	3.43	-90
L1	311.	1.61E+03	-20	366.	103
L3	297.	1.63E+03	-20	364.	103
L4	-39.2	991.	-40	718.	85
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–90. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.56E+03	1.47E+03	-1.51E+03	1.43E+03
A2	-1.64E+03	1.50E+03	-1.57E+03	1.45E+03
FD	-25.0	-5.40	-24.9	-5.92
L1	-1.59E+03	1.86E+03	-1.56E+03	1.84E+03
L3	-1.61E+03	1.86E+03	-1.58E+03	1.84E+03
L4	-1.56E+03	2.77E+03	-1.42E+03	2.11E+03
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-46. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

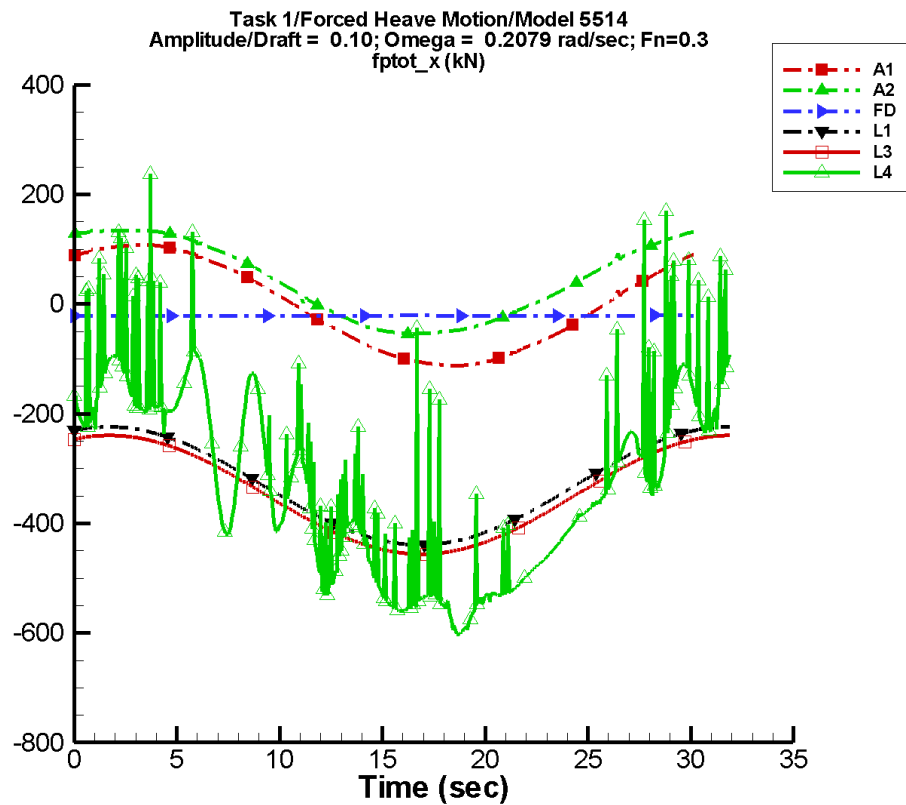
Table B–91. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.172	56.1	53	0.507	53
A2	41.5	48.4	68	1.22	-81
FD	-21.4	0.828	-177	0.121	74
L1	-332.	53.9	70	0.103	113
L3	-348.	54.2	69	0.114	108
L4	-339.	102.	59	5.25	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–92. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-56.1	58.5	-56.1	58.4
A2	-7.87	90.3	-7.13	89.9
FD	-22.2	-20.5	-22.2	-20.5
L1	-386.	-278.	-386.	-278.
L3	-403.	-294.	-403.	-294.
L4	-467.	8.23	-454.	-129.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

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Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

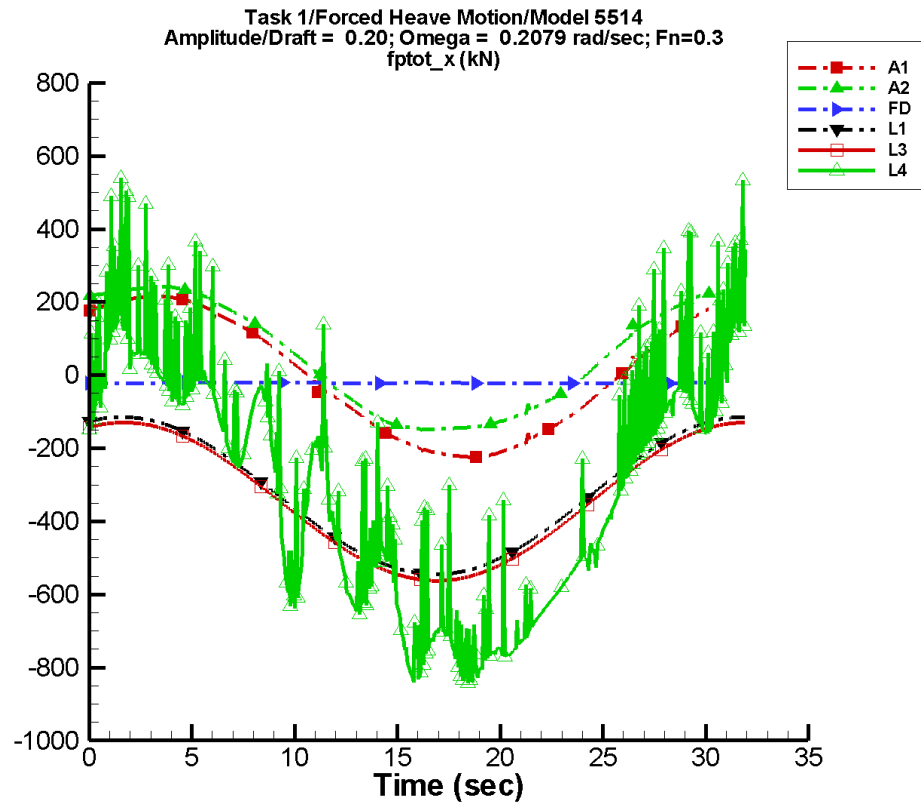
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.344	112.	53	1.01	53
A2	45.0	98.5	65	4.32	-86
FD	-21.5	0.403	-173	2.67E-02	53
L1	-332.	108.	70	0.407	113
L3	-348.	108.	69	0.351	117
L4	-331.	210.	55	24.9	97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–94. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-112.	117.	-112.	117.
A2	-55.6	143.	-54.1	143.
FD	-22.2	-20.5	-22.2	-20.5
L1	-439.	-224.	-439.	-224.
L3	-456.	-240.	-456.	-240.
L4	-603.	237.	-598.	3.12
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

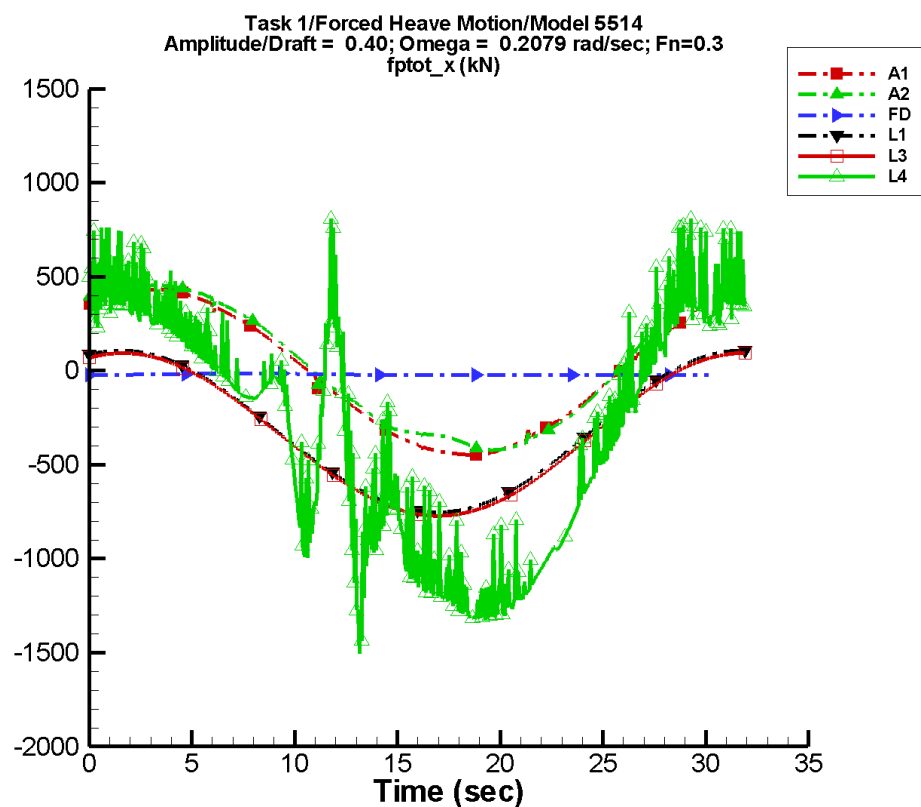
Table B–95. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.688	224.	53	2.03	53
A2	50.0	206.	60	6.08	-84
FD	-21.3	0.618	-7	0.390	-85
L1	-330.	215.	70	1.63	113
L3	-347.	216.	69	1.30	120
L4	-321.	414.	57	65.6	109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–96. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-224.	233.	-224.	233.
A2	-151.	260.	-148.	260.
FD	-22.2	-20.0	-22.1	-20.0
L1	-545.	-114.	-545.	-115.
L3	-563.	-130.	-563.	-130.
L4	-841.	540.	-797.	274.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

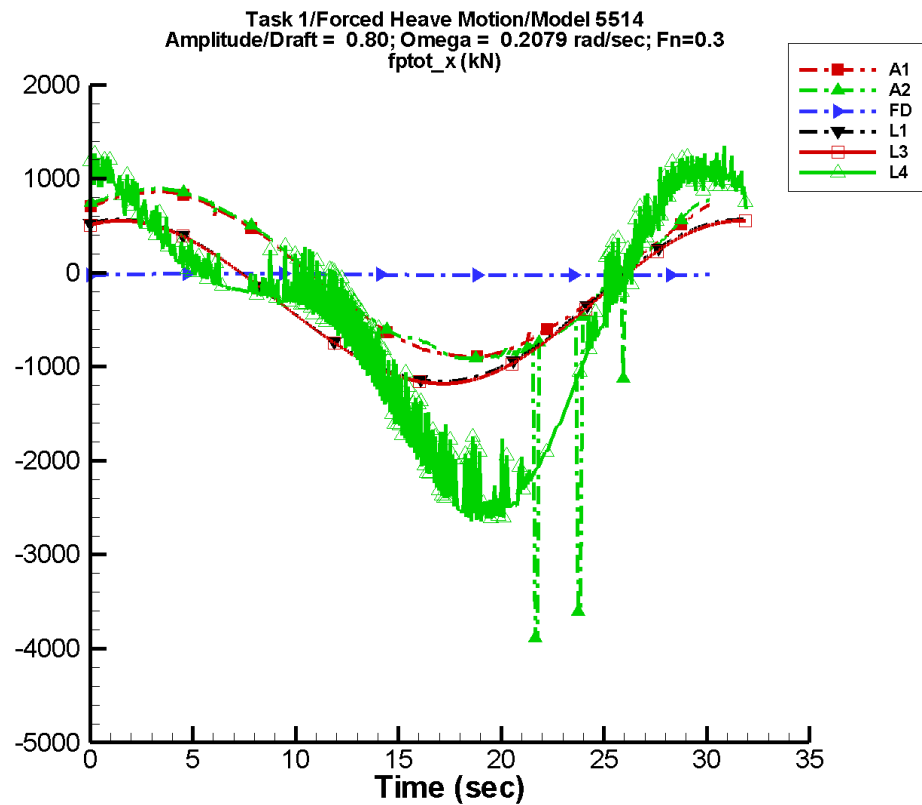
Table B–97. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.38	448.	53	4.05	53
A2	27.1	451.	51	23.4	86
FD	-20.4	3.62	-2	1.43	-87
L1	-326.	430.	70	6.51	113
L3	-342.	433.	69	6.36	114
L4	-337.	774.	56	222.	127
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–98. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-448.	467.	-448.	466.
A2	-422.	488.	-421.	488.
FD	-23.2	-15.0	-23.2	-15.0
L1	-754.	108.	-753.	107.
L3	-772.	93.7	-772.	93.5
L4	-1.50E+03	810.	-1.30E+03	540.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-50. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

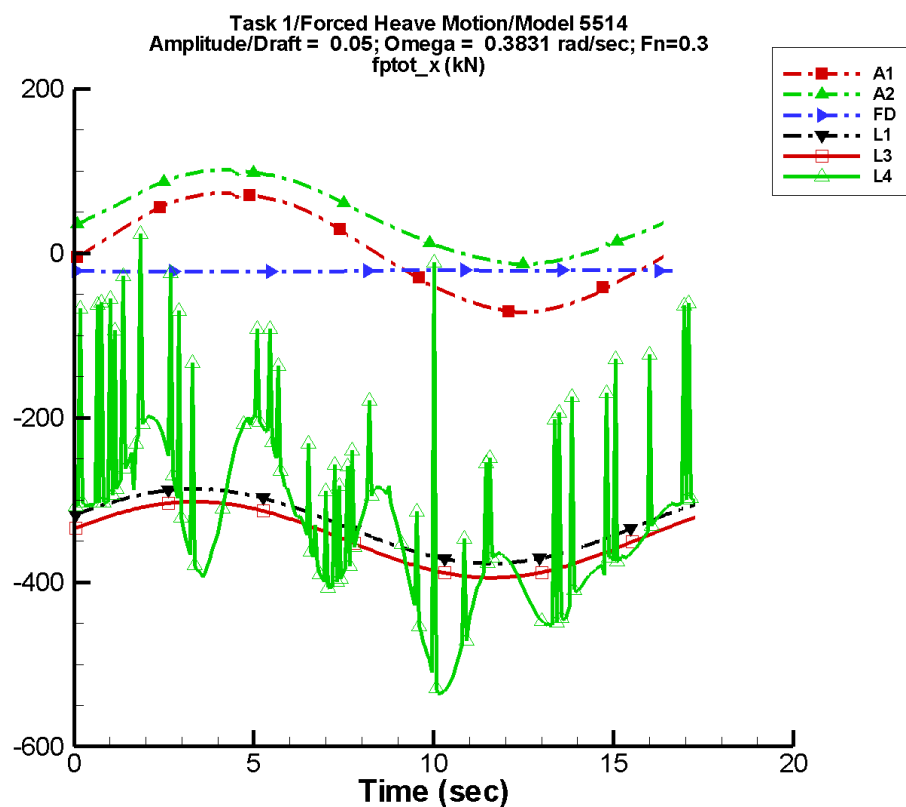
Table B–99. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.75	896.	53	8.10	53
A2	-43.7	970.	46	110.	84
FD	-18.0	9.46	-1	3.28	-88
L1	-308.	861.	70	26.1	113
L3	-322.	865.	69	24.1	115
L4	-523.	1.44E+03	57	654.	144
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–100. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-897.	934.	-896.	933.
A2	-3.89E+03	964.	-1.57E+03	963.
FD	-25.2	-5.40	-25.1	-5.42
L1	-1.16E+03	566.	-1.16E+03	566.
L3	-1.18E+03	554.	-1.18E+03	554.
L4	-2.65E+03	1.35E+03	-2.53E+03	1.19E+03
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

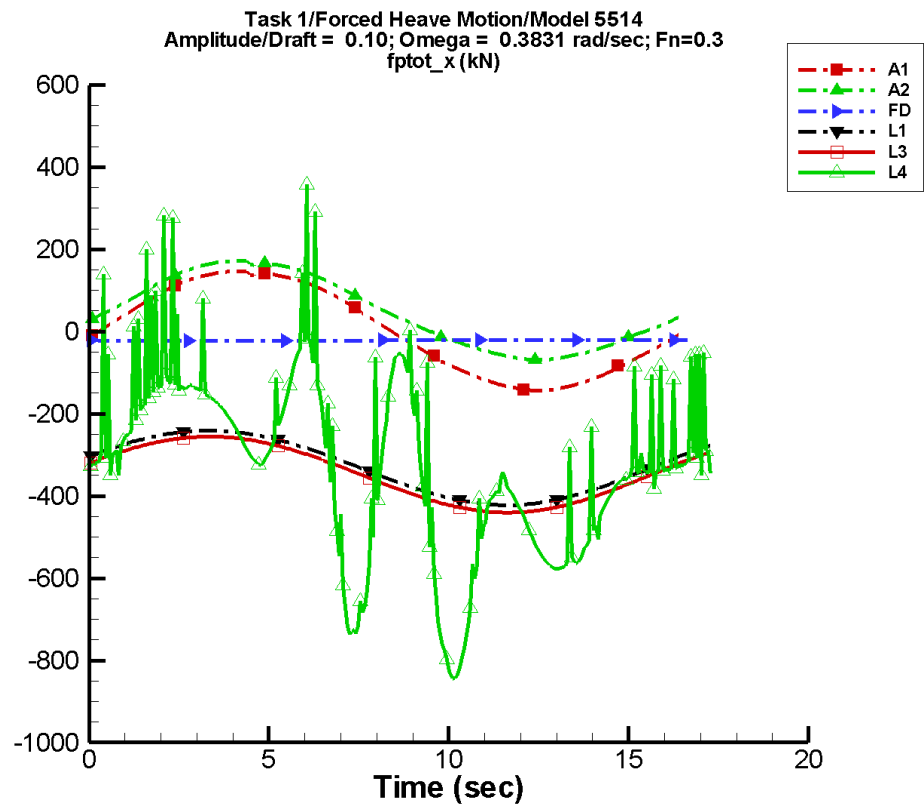
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	1.52	72.0	-4	0.422	163
A2	43.2	56.2	-5	1.59	-111
FD	-21.4	0.816	-177	0.139	79
L1	-332.	45.3	16	0.326	78
L3	-348.	46.3	15	0.338	77
L4	-326.	93.1	21	14.6	71
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–102. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-71.8	73.5	-71.5	72.7
A2	-13.3	101.	-13.0	101.
FD	-22.2	-20.5	-22.2	-20.5
L1	-377.	-286.	-377.	-287.
L3	-395.	-302.	-394.	-302.
L4	-536.	23.6	-521.	-174.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

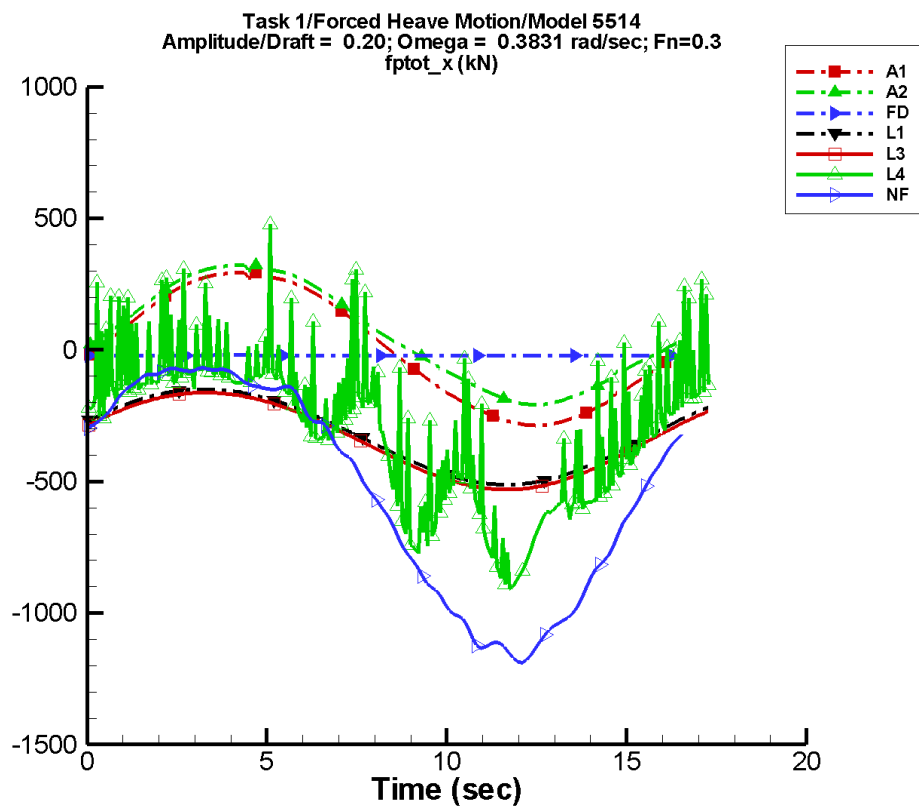
Table B–103. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	3.04	144.	-4	0.844	163
A2	48.4	117.	-5	5.04	-105
FD	-21.5	0.392	-171	4.02E-02	34
L1	-331.	90.5	16	1.31	78
L3	-347.	92.3	15	1.27	78
L4	-329.	204.	20	22.5	37
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–104. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-143.	147.	-143.	145.
A2	-68.9	172.	-68.2	170.
FD	-22.2	-20.5	-22.1	-20.6
L1	-422.	-241.	-422.	-241.
L3	-440.	-256.	-440.	-256.
L4	-844.	358.	-828.	56.8
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

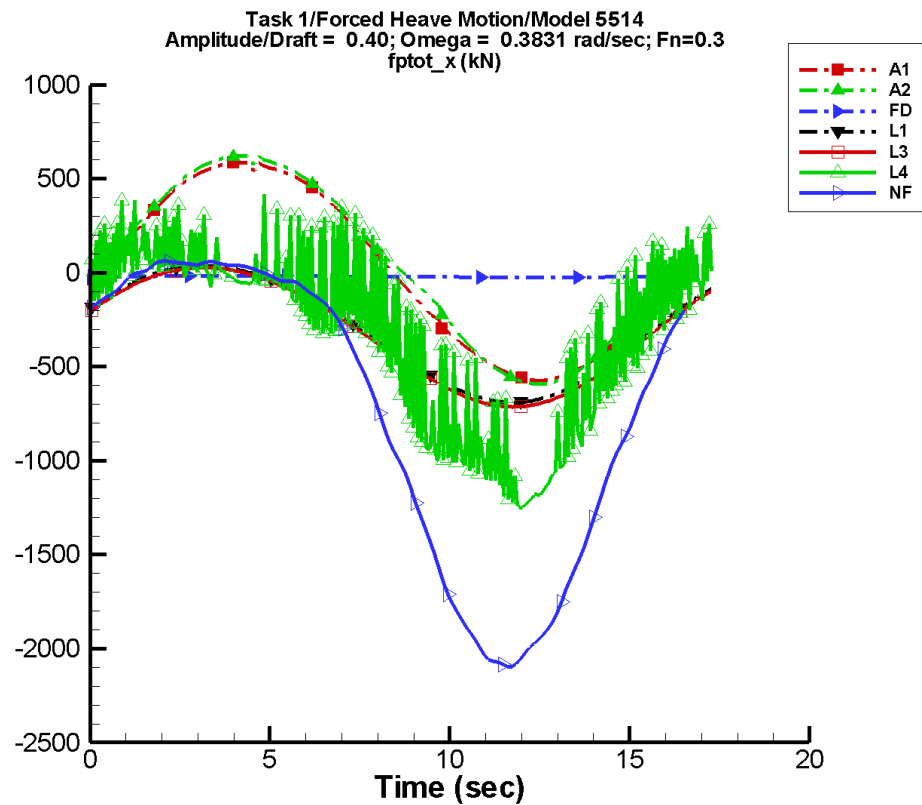
Table B–105. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	6.08	288.	-4	1.69	163
A2	53.3	249.	-6	12.2	-159
FD	-21.3	0.638	-7	0.373	-83
L1	-327.	181.	16	5.28	78
L3	-343.	184.	15	4.90	77
L4	-301.	331.	17	76.1	96
NF	-502.	526.	23	63.6	128
NS	—	—	—	—	—

Table B–106. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-287.	294.	-285.	290.
A2	-975.	322.	-207.	319.
FD	-22.2	-20.0	-22.1	-20.0
L1	-512.	-149.	-512.	-150.
L3	-531.	-162.	-530.	-162.
L4	-907.	479.	-868.	14.8
NF	-1.19E+03	-9.48	-1.16E+03	-12.7
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-54. Time history of  $F_x^{ptot}$  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 5514 scaled to  $L = 142$  m.

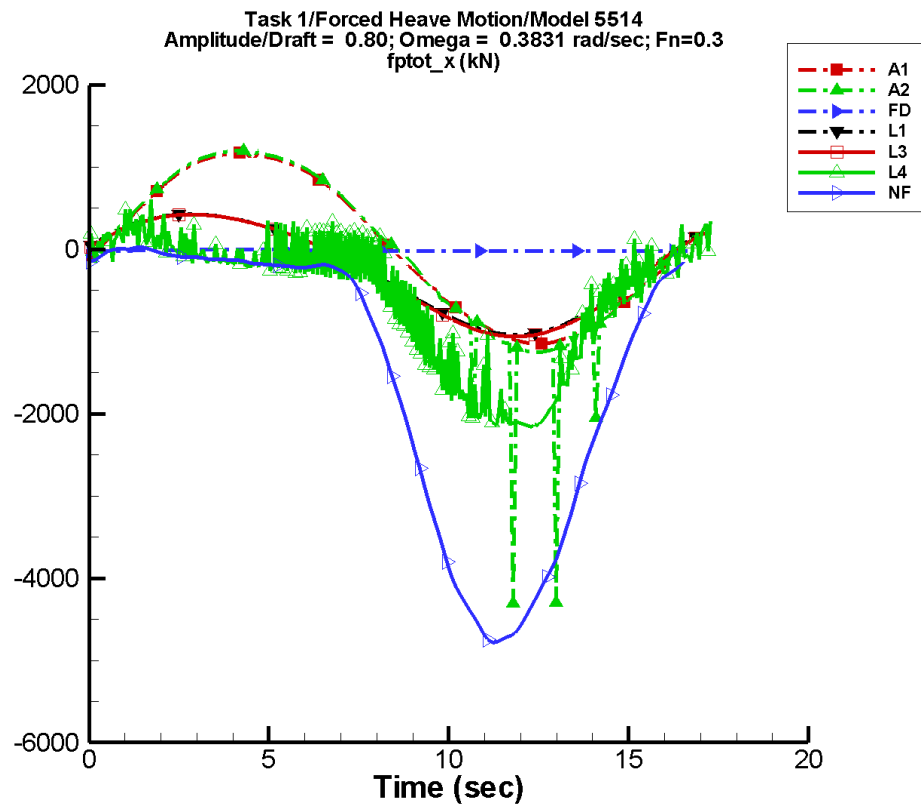
Table B–107. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	12.2	575.	-4	3.37	163
A2	40.7	584.	-4	21.2	99
FD	-20.4	3.64	-2	1.39	-87
L1	-311.	362.	16	21.1	78
L3	-327.	369.	15	21.0	78
L4	-325.	561.	16	208.	106
NF	-699.	1.02E+03	25	258.	144
NS	—	—	—	—	—

Table B–108. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-574.	587.	-571.	581.
A2	-592.	622.	-589.	615.
FD	-23.2	-15.0	-23.2	-15.1
L1	-690.	37.1	-689.	36.4
L3	-713.	28.0	-713.	27.5
L4	-1.25E+03	435.	-1.22E+03	206.
NF	-2.10E+03	108.	-2.07E+03	99.9
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

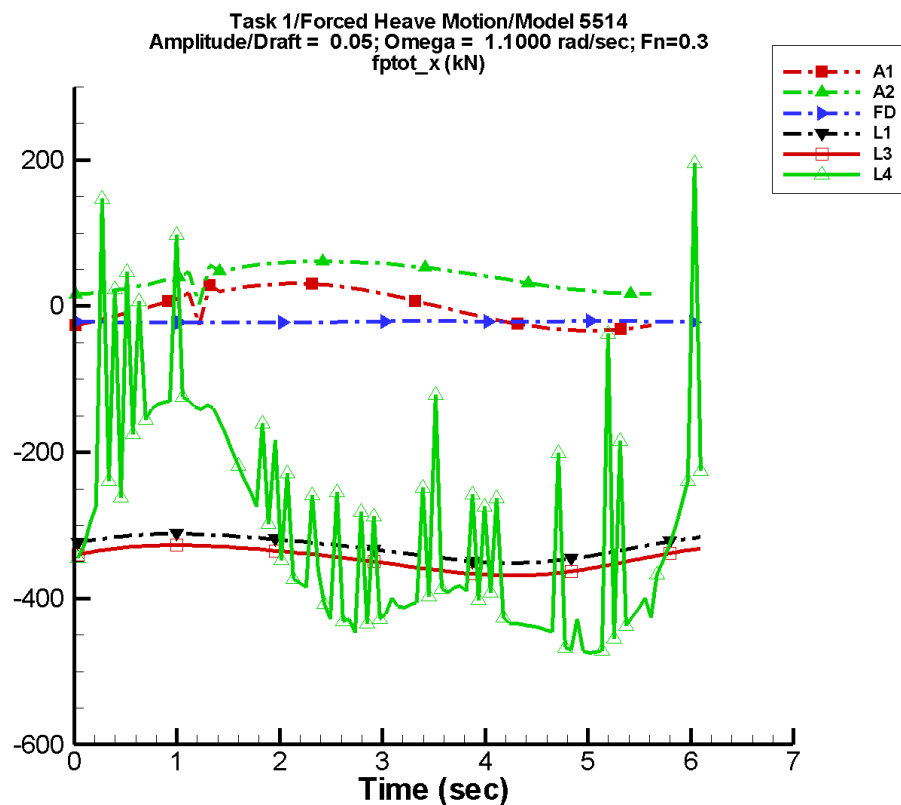
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	24.3	1.15E+03	-4	6.75	163
A2	-23.3	1.29E+03	-4	105.	91
FD	-18.0	9.48	-1	3.23	-89
L1	-250.	724.	16	84.5	78
L3	-264.	735.	15	82.2	78
L4	-595.	947.	16	476.	112
NF	-1.44E+03	2.10E+03	29	922.	147
NS	—	—	—	—	—

Table B–110. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.15E+03	1.17E+03	-1.14E+03	1.16E+03
A2	-4.31E+03	1.20E+03	-1.60E+03	1.19E+03
FD	-25.2	-5.40	-25.0	-5.50
L1	-1.04E+03	427.	-1.04E+03	426.
L3	-1.06E+03	423.	-1.06E+03	422.
L4	-2.16E+03	600.	-2.14E+03	281.
NF	-4.79E+03	28.2	-4.72E+03	11.9
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-56. Time history of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

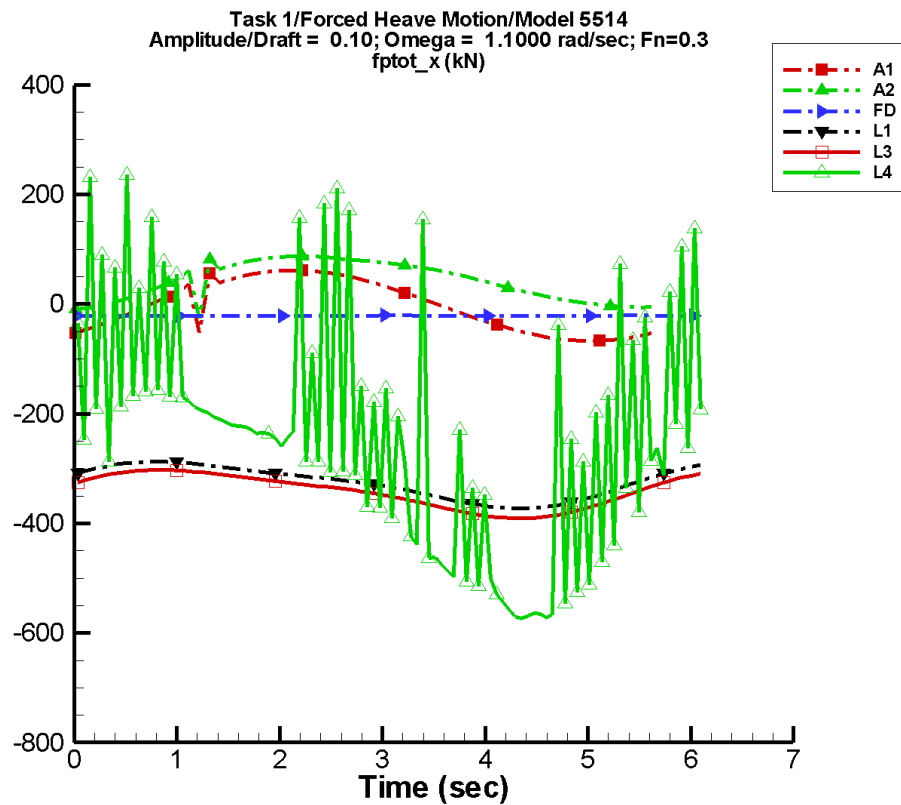
Table B–111. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.81	31.6	-46	0.644	84
A2	39.8	21.9	-73	0.967	-110
FD	-21.4	0.834	-179	7.96E-02	86
L1	-330.	19.4	12	2.68	50
L3	-347.	20.3	11	2.67	51
L4	-299.	132.	21	83.6	-17
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–112. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-33.6	30.9	-32.6	30.1
A2	2.54	61.1	16.3	60.6
FD	-22.2	-20.5	-22.2	-20.6
L1	-351.	-311.	-351.	-311.
L3	-369.	-327.	-368.	-327.
L4	-475.	196.	-427.	-88.1
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

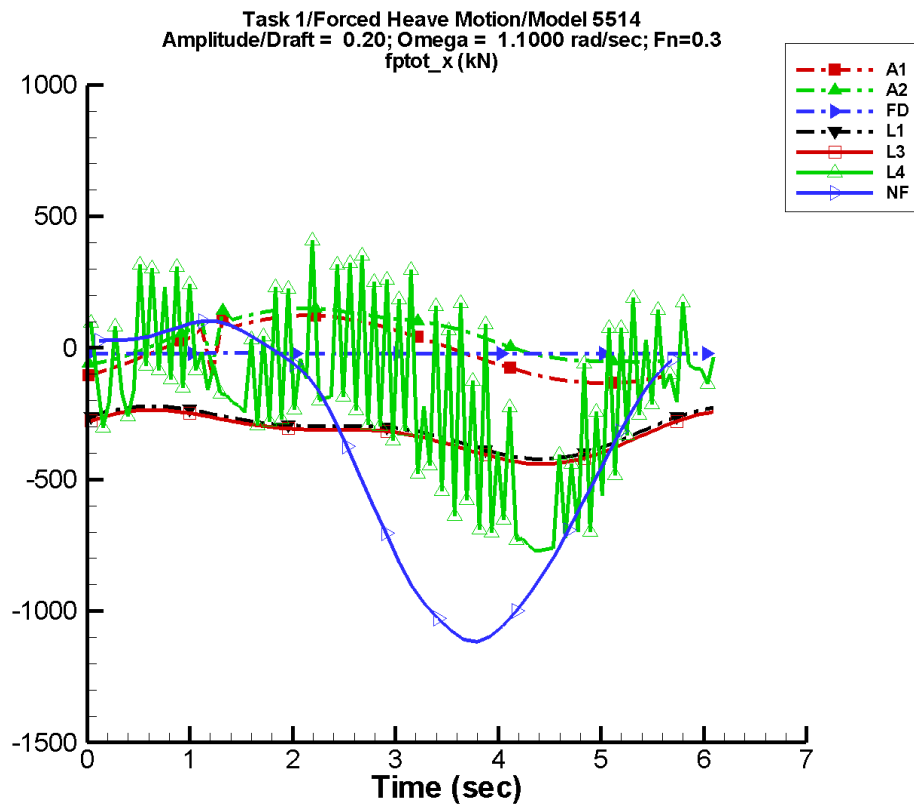
Table B–113. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-3.61	63.1	-46	1.29	84
A2	41.7	46.0	-68	3.81	-107
FD	-21.5	0.421	-175	2.39E-02	-42
L1	-327.	38.9	12	10.0	50
L3	-343.	40.7	12	9.96	50
L4	-246.	184.	12	113.	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–114. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-67.1	61.7	-65.2	60.0
A2	-26.3	87.3	-7.42	86.1
FD	-22.2	-20.5	-22.0	-21.0
L1	-373.	-287.	-372.	-288.
L3	-391.	-303.	-390.	-303.
L4	-574.	242.	-555.	-20.0
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

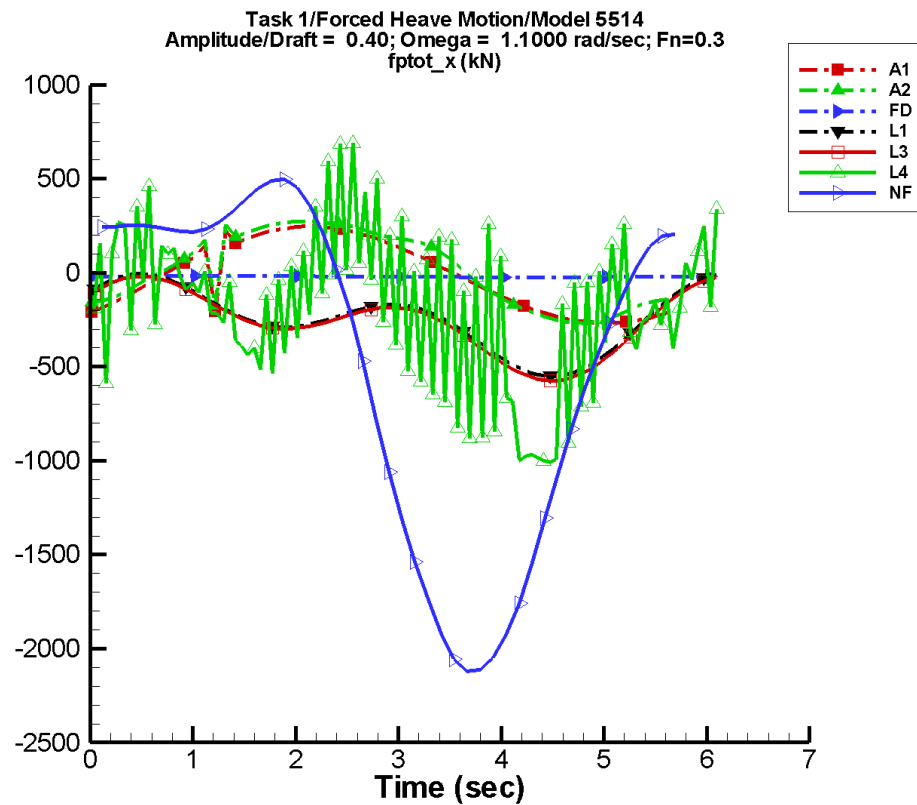
Table B–115. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-7.22	126.	-46	2.57	84
A2	43.4	104.	-58	5.07	-110
FD	-21.3	0.593	-5	0.429	-86
L1	-313.	78.0	12	39.3	50
L3	-329.	81.0	12	39.0	50
L4	-189.	232.	-4	173.	81
NF	-398.	598.	34	120.	165
NS	—	—	—	—	—

Table B–116. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-134.	123.	-130.	120.
A2	-73.7	152.	-54.5	147.
FD	-22.1	-20.0	-21.8	-20.1
L1	-422.	-221.	-420.	-223.
L3	-441.	-235.	-439.	-237.
L4	-770.	450.	-698.	85.5
NF	-1.12E+03	101.	-1.06E+03	77.1
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

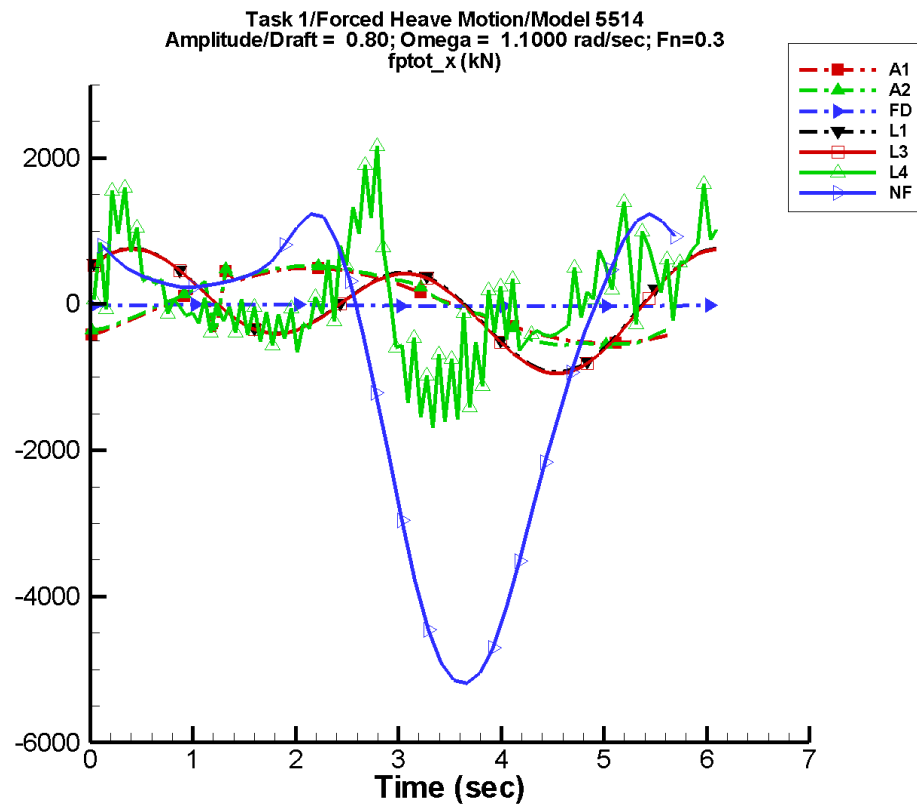
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-14.4	252.	-46	5.15	84
A2	13.9	261.	-45	26.0	82
FD	-20.4	3.59	-1	1.51	-89
L1	-258.	156.	12	156.	50
L3	-274.	163.	12	156.	50
L4	-202.	247.	-8	298.	88
NF	-466.	1.16E+03	28	492.	161
NS	—	—	—	—	—

Table B–118. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-268.	247.	-261.	240.
A2	-268.	271.	-250.	266.
FD	-23.2	-15.0	-23.1	-15.2
L1	-551.	-6.41	-542.	-13.9
L3	-574.	-19.3	-566.	-26.7
L4	-1.01E+03	876.	-893.	303.
NF	-2.12E+03	498.	-1.95E+03	401.
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-60. Time history 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 5514 scaled to  $L = 142$  m.

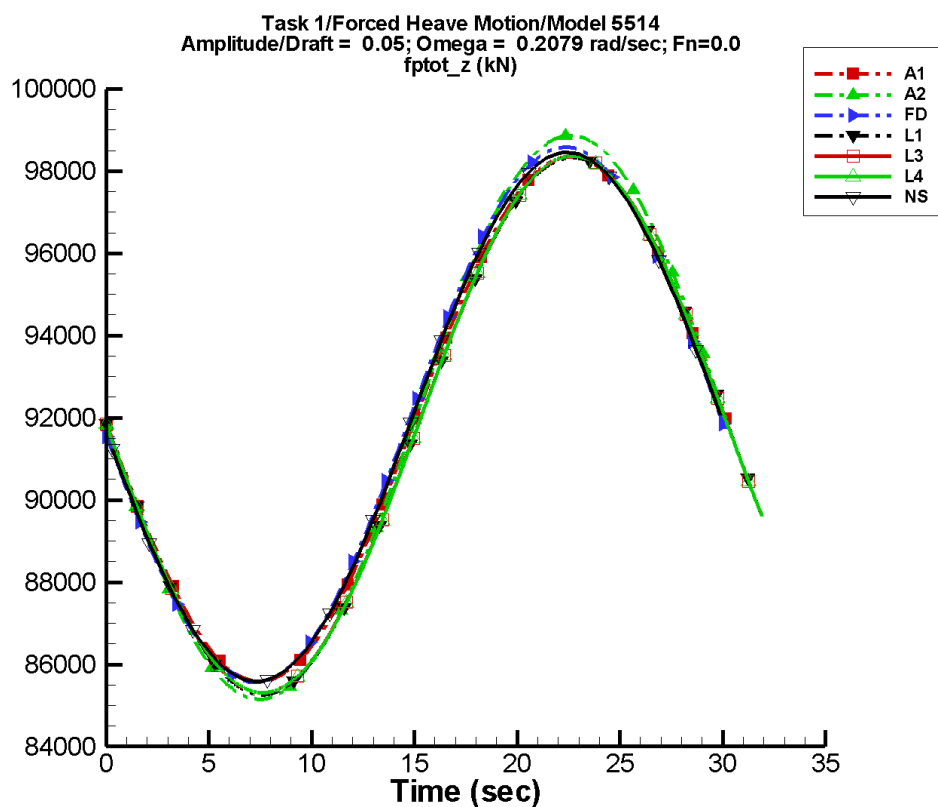
Table B–119. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-28.9	505.	-46	10.3	84
A2	-20.1	536.	-44	41.4	79
FD	-18.0	9.45	0	3.43	-90
L1	-37.7	312.	12	622.	50
L3	-51.8	323.	12	621.	50
L4	55.1	345.	63	603.	112
NF	-834.	2.44E+03	41	1.65E+03	168
NS	—	—	—	—	—

Table B–120. Minimum and maximum of  $F_x^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-537.	494.	-521.	480.
A2	-568.	522.	-553.	507.
FD	-25.0	-5.40	-24.9	-5.92
L1	-930.	765.	-899.	733.
L3	-950.	754.	-920.	722.
L4	-1.69E+03	2.16E+03	-1.21E+03	1.10E+03
NF	-5.19E+03	1.28E+03	-4.67E+03	900.
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-61. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

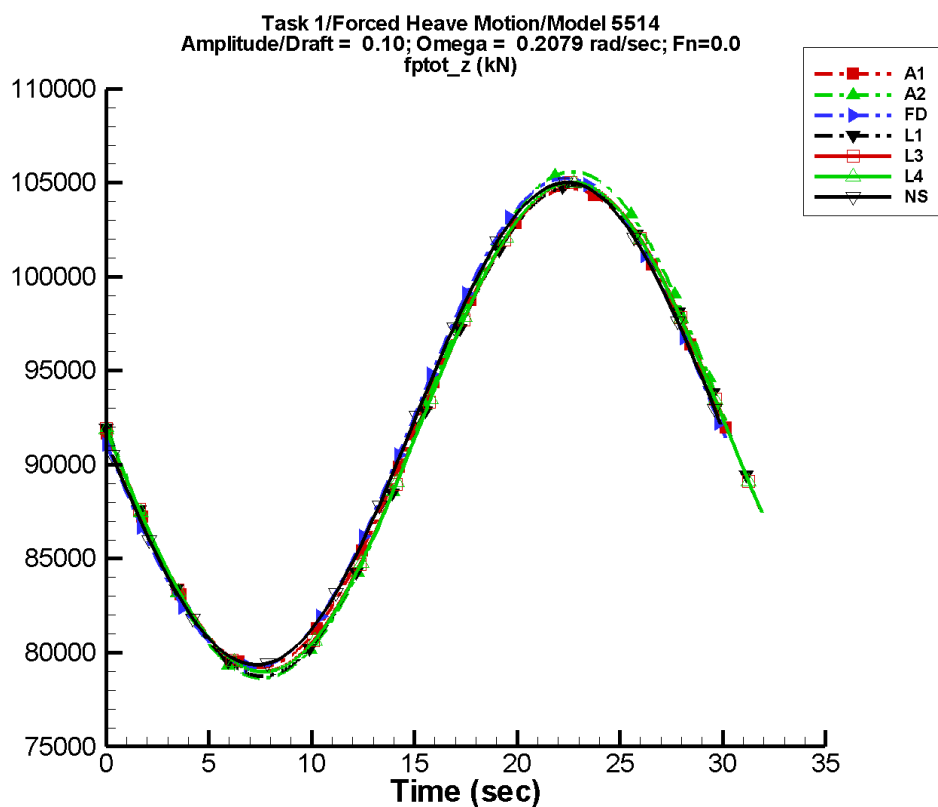
Table B–121. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	6.38E+03	-179	0.122	-173
A2	9.20E+04	6.87E+03	-179	18.9	-95
FD	9.20E+04	6.51E+03	-176	27.0	-90
L1	9.18E+04	6.53E+03	179	1.00	91
L3	9.18E+04	6.53E+03	179	26.0	-92
L4	9.18E+04	6.53E+03	179	30.8	-70
NF	—	—	—	—	—
NS	9.20E+04	6.44E+03	-177	29.0	-85

Table B–122. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	9.83E+04	8.56E+04	9.83E+04
A2	8.52E+04	9.89E+04	8.51E+04	9.89E+04
FD	8.56E+04	9.86E+04	8.56E+04	9.86E+04
L1	8.53E+04	9.83E+04	8.53E+04	9.83E+04
L3	8.53E+04	9.84E+04	8.53E+04	9.84E+04
L4	8.53E+04	9.84E+04	8.53E+04	9.84E+04
NF	—	—	—	—
NS	8.56E+04	9.85E+04	8.57E+04	9.84E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–62. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

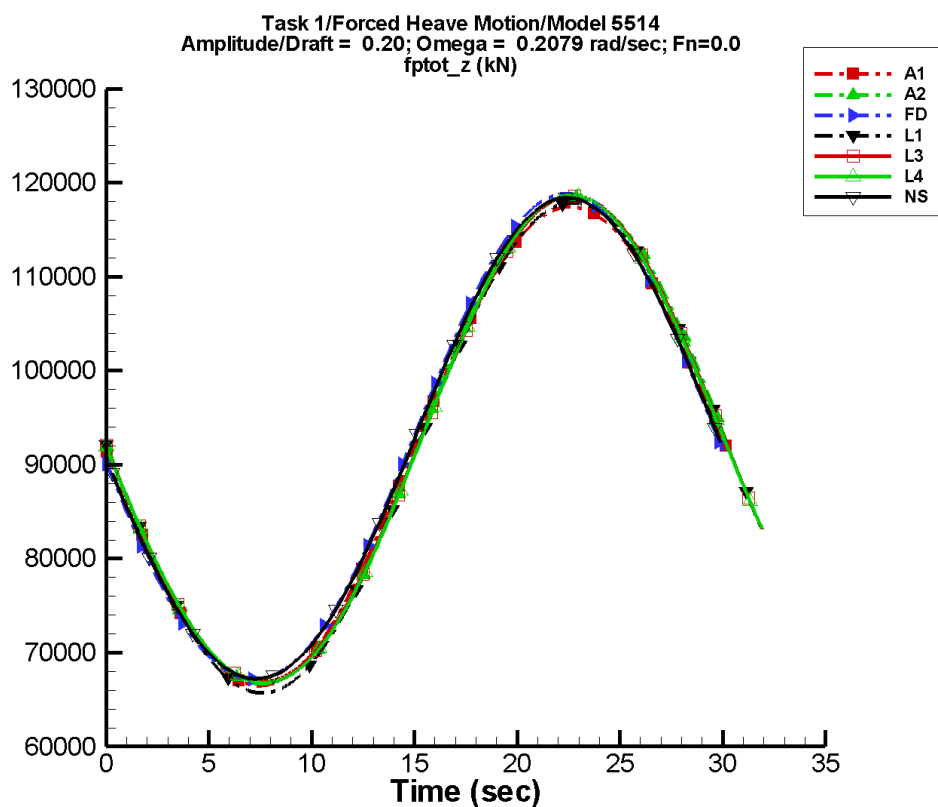
Table B–123. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.27E+04	-179	0.188	-173
A2	9.20E+04	1.35E+04	179	80.1	-97
FD	9.21E+04	1.30E+04	-176	112.	-90
L1	9.18E+04	1.30E+04	179	3.47	88
L3	9.19E+04	1.30E+04	179	109.	-92
L4	9.19E+04	1.30E+04	179	128.	-70
NF	—	—	—	—	—
NS	9.21E+04	1.28E+04	-177	108.	-84

Table B–124. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.92E+04	1.05E+05	7.92E+04	1.05E+05
A2	7.86E+04	1.06E+05	7.86E+04	1.06E+05
FD	7.92E+04	1.05E+05	7.93E+04	1.05E+05
L1	7.87E+04	1.05E+05	7.88E+04	1.05E+05
L3	7.90E+04	1.05E+05	7.90E+04	1.05E+05
L4	7.90E+04	1.05E+05	7.90E+04	1.05E+05
NF	—	—	—	—
NS	7.93E+04	1.05E+05	7.95E+04	1.05E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

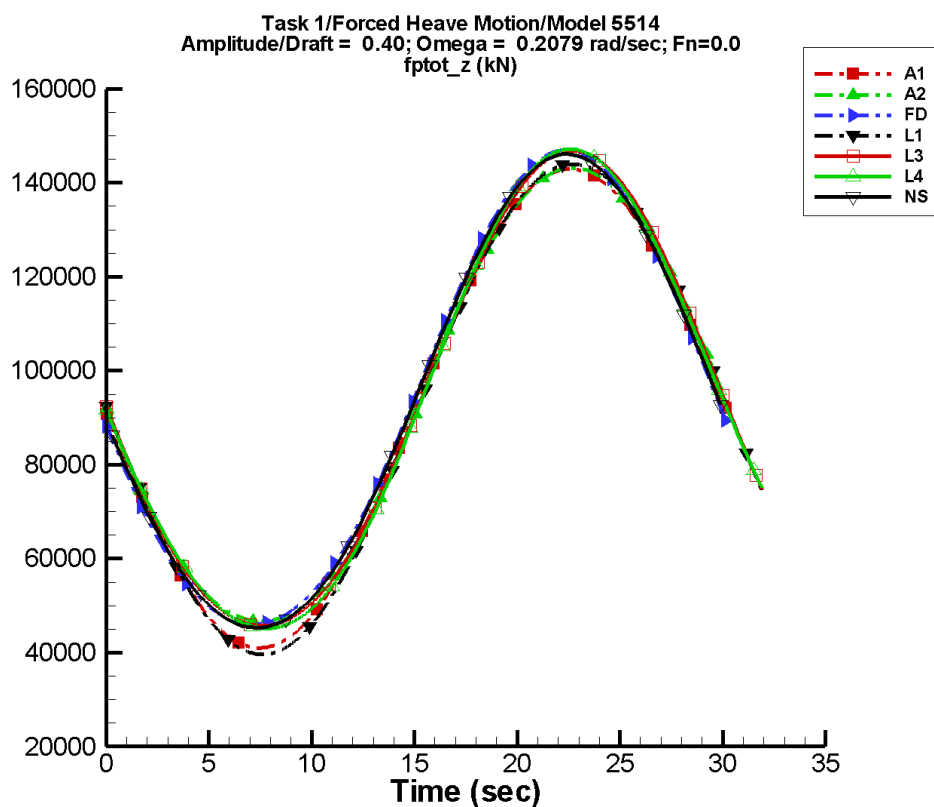
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.55E+04	-179	0.370	-170
A2	9.23E+04	2.62E+04	180	358.	-97
FD	9.25E+04	2.59E+04	-176	494.	-90
L1	9.18E+04	2.61E+04	179	12.9	87
L3	9.23E+04	2.59E+04	179	489.	-92
L4	9.22E+04	2.60E+04	179	559.	-70
NF	—	—	—	—	—
NS	9.24E+04	2.56E+04	-177	415.	-83

Table B–126. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.65E+04	1.17E+05	6.65E+04	1.17E+05
A2	6.67E+04	1.19E+05	6.67E+04	1.18E+05
FD	6.71E+04	1.19E+05	6.72E+04	1.19E+05
L1	6.57E+04	1.18E+05	6.57E+04	1.18E+05
L3	6.69E+04	1.19E+05	6.69E+04	1.19E+05
L4	6.68E+04	1.19E+05	6.68E+04	1.19E+05
NF	—	—	—	—
NS	6.72E+04	1.18E+05	6.74E+04	1.18E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-64. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

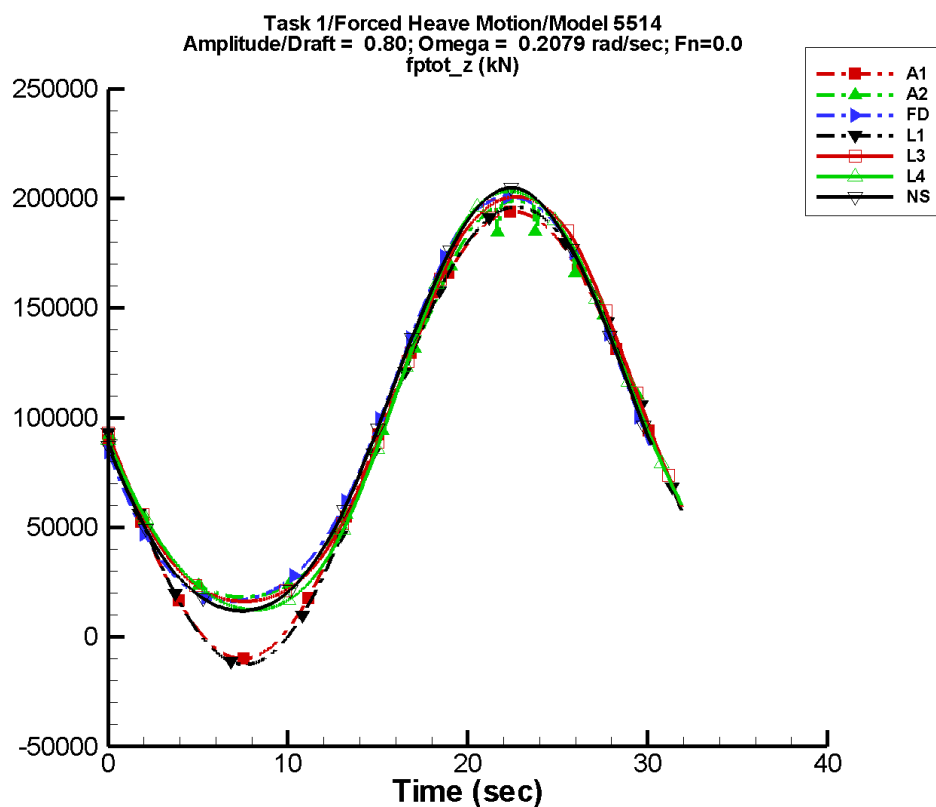
Table B–127. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.10E+04	-179	0.753	-170
A2	9.33E+04	4.91E+04	180	1.66E+03	-96
FD	9.42E+04	5.09E+04	-176	2.32E+03	-89
L1	9.18E+04	5.22E+04	179	49.8	86
L3	9.40E+04	5.09E+04	179	2.31E+03	-92
L4	9.37E+04	5.12E+04	179	2.62E+03	-71
NF	—	—	—	—	—
NS	9.39E+04	5.06E+04	-177	1.82E+03	-82

Table B–128. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.10E+04	1.43E+05	4.09E+04	1.43E+05
A2	4.67E+04	1.43E+05	4.66E+04	1.43E+05
FD	4.60E+04	1.47E+05	4.60E+04	1.47E+05
L1	3.96E+04	1.44E+05	3.96E+04	1.44E+05
L3	4.57E+04	1.47E+05	4.57E+04	1.47E+05
L4	4.52E+04	1.47E+05	4.52E+04	1.47E+05
NF	—	—	—	—
NS	4.53E+04	1.46E+05	4.57E+04	1.46E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-65. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

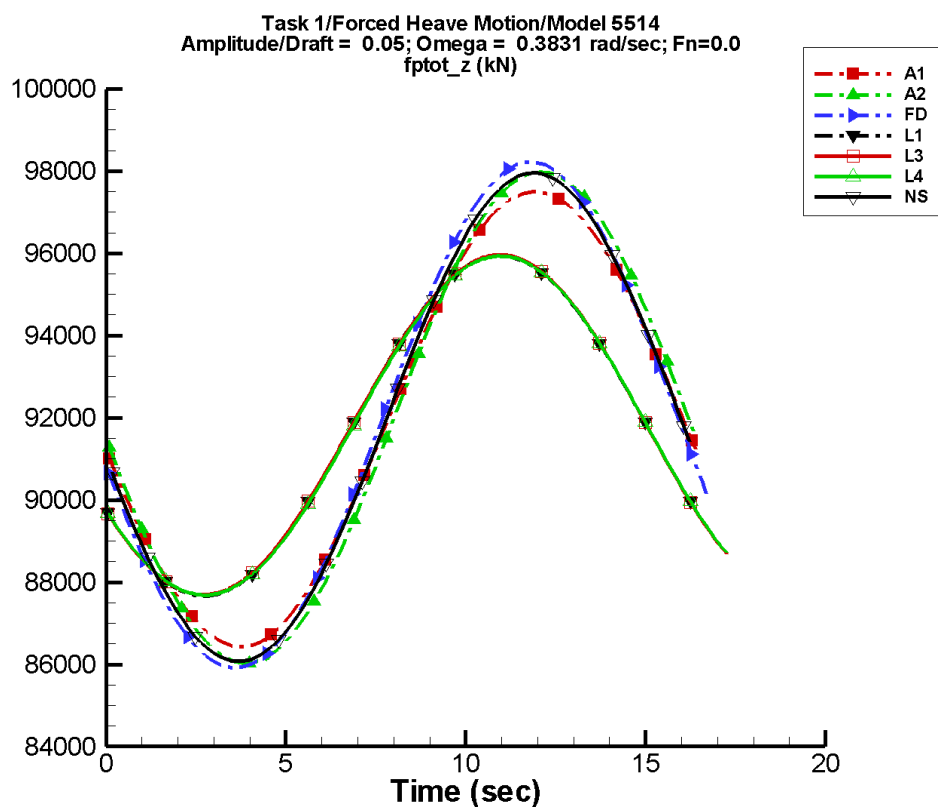
Table B–129. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.02E+05	-179	1.49	-170
A2	9.97E+04	9.26E+04	180	8.83E+03	-93
FD	1.01E+05	9.55E+04	-176	9.02E+03	-88
L1	9.20E+04	1.04E+05	179	196.	86
L3	1.01E+05	9.56E+04	180	9.02E+03	-92
L4	9.95E+04	9.74E+04	180	1.02E+04	-70
NF	—	—	—	—	—
NS	1.00E+05	9.76E+04	-177	7.98E+03	-82

Table B–130. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.95E+03	1.94E+05	-1.01E+04	1.94E+05
A2	1.82E+04	1.99E+05	1.81E+04	1.99E+05
FD	1.63E+04	2.01E+05	1.63E+04	2.01E+05
L1	-1.26E+04	1.96E+05	-1.25E+04	1.96E+05
L3	1.63E+04	2.01E+05	1.63E+04	2.01E+05
L4	1.24E+04	2.03E+05	1.24E+04	2.03E+05
NF	—	—	—	—
NS	1.19E+04	2.05E+05	1.22E+04	2.04E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-66. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

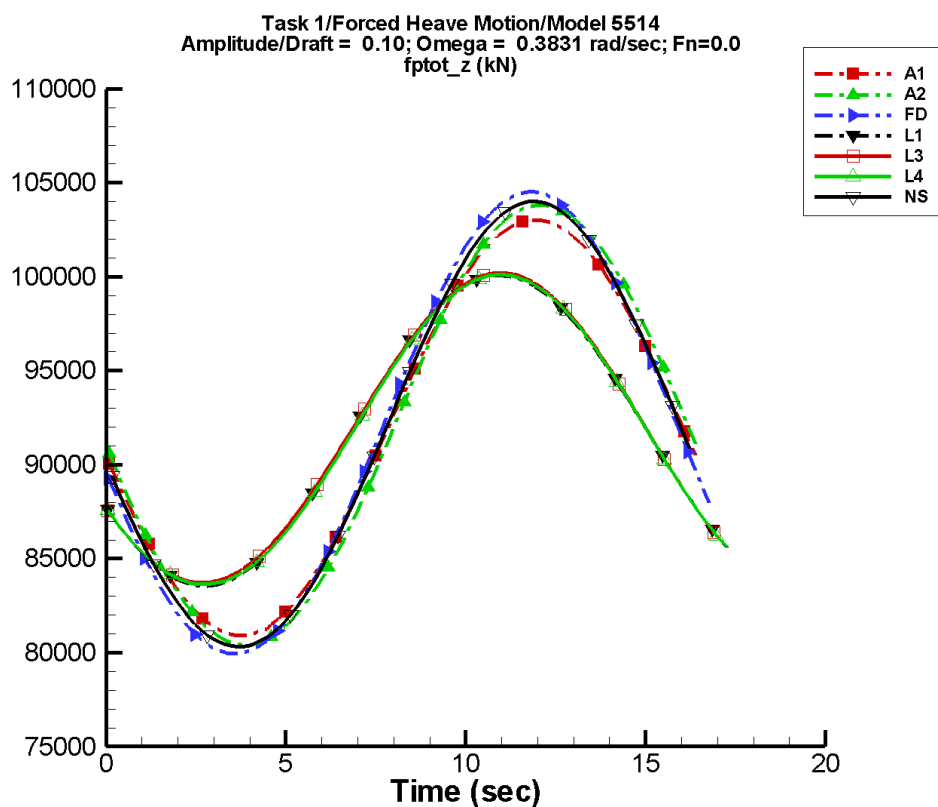
Table B–131. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.54E+03	-172	0.968	106
A2	9.20E+04	5.99E+03	-176	18.0	-100
FD	9.20E+04	6.15E+03	-169	27.0	-90
L1	9.18E+04	4.14E+03	-150	3.94	86
L3	9.18E+04	4.13E+03	-150	23.0	-92
L4	9.18E+04	4.13E+03	-151	16.5	-56
NF	—	—	—	—	—
NS	9.20E+04	5.95E+03	-171	24.8	-77

Table B–132. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.64E+04	9.75E+04	8.64E+04	9.75E+04
A2	8.60E+04	9.80E+04	8.60E+04	9.80E+04
FD	8.59E+04	9.82E+04	8.59E+04	9.82E+04
L1	8.77E+04	9.59E+04	8.77E+04	9.59E+04
L3	8.77E+04	9.60E+04	8.77E+04	9.60E+04
L4	8.77E+04	9.59E+04	8.77E+04	9.59E+04
NF	—	—	—	—
NS	8.61E+04	9.80E+04	8.61E+04	9.79E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

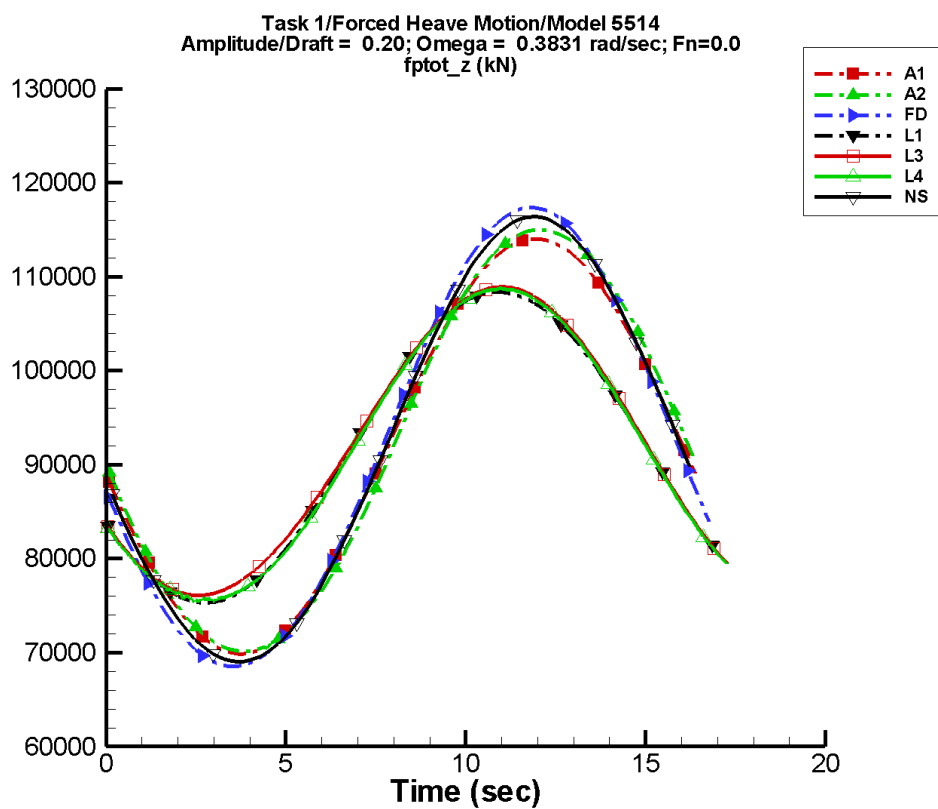
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.11E+04	-172	1.93	106
A2	9.20E+04	1.18E+04	-175	78.8	-99
FD	9.21E+04	1.23E+04	-169	112.	-90
L1	9.18E+04	8.26E+03	-150	19.0	82
L3	9.19E+04	8.25E+03	-150	92.4	-92
L4	9.18E+04	8.25E+03	-151	63.4	-54
NF	—	—	—	—	—
NS	9.21E+04	1.19E+04	-171	92.9	-75

Table B–134. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.09E+04	1.03E+05	8.09E+04	1.03E+05
A2	8.04E+04	1.04E+05	8.04E+04	1.04E+05
FD	7.99E+04	1.05E+05	8.00E+04	1.04E+05
L1	8.35E+04	1.00E+05	8.36E+04	1.00E+05
L3	8.37E+04	1.00E+05	8.37E+04	1.00E+05
L4	8.36E+04	1.00E+05	8.36E+04	1.00E+05
NF	—	—	—	—
NS	8.03E+04	1.04E+05	8.04E+04	1.04E+05



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

Figure B-68. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

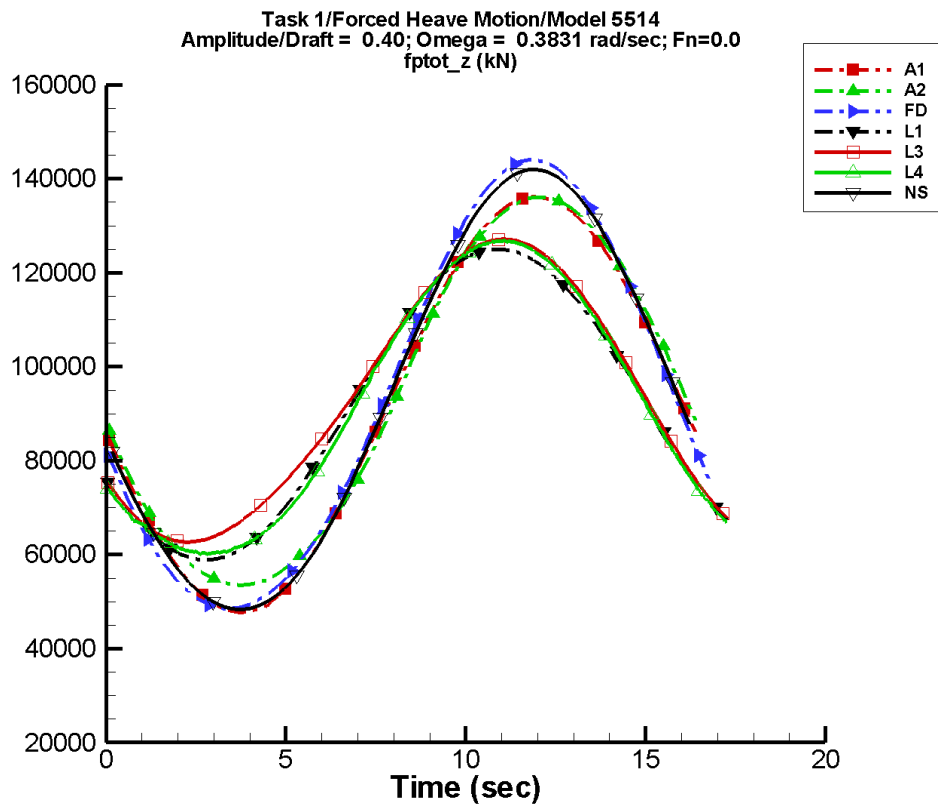
Table B–135. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.21E+04	-172	3.88	106
A2	9.23E+04	2.27E+04	-175	356.	-100
FD	9.25E+04	2.45E+04	-169	491.	-90
L1	9.19E+04	1.65E+04	-150	82.6	80
L3	9.23E+04	1.64E+04	-150	409.	-92
L4	9.19E+04	1.66E+04	-151	262.	-38
NF	—	—	—	—	—
NS	9.24E+04	2.37E+04	-171	350.	-72

Table B–136. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.98E+04	1.14E+05	6.99E+04	1.14E+05
A2	7.01E+04	1.15E+05	7.01E+04	1.15E+05
FD	6.85E+04	1.17E+05	6.86E+04	1.17E+05
L1	7.53E+04	1.08E+05	7.53E+04	1.08E+05
L3	7.61E+04	1.09E+05	7.61E+04	1.09E+05
L4	7.55E+04	1.09E+05	7.56E+04	1.09E+05
NF	—	—	—	—
NS	6.90E+04	1.16E+05	6.93E+04	1.16E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-69. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

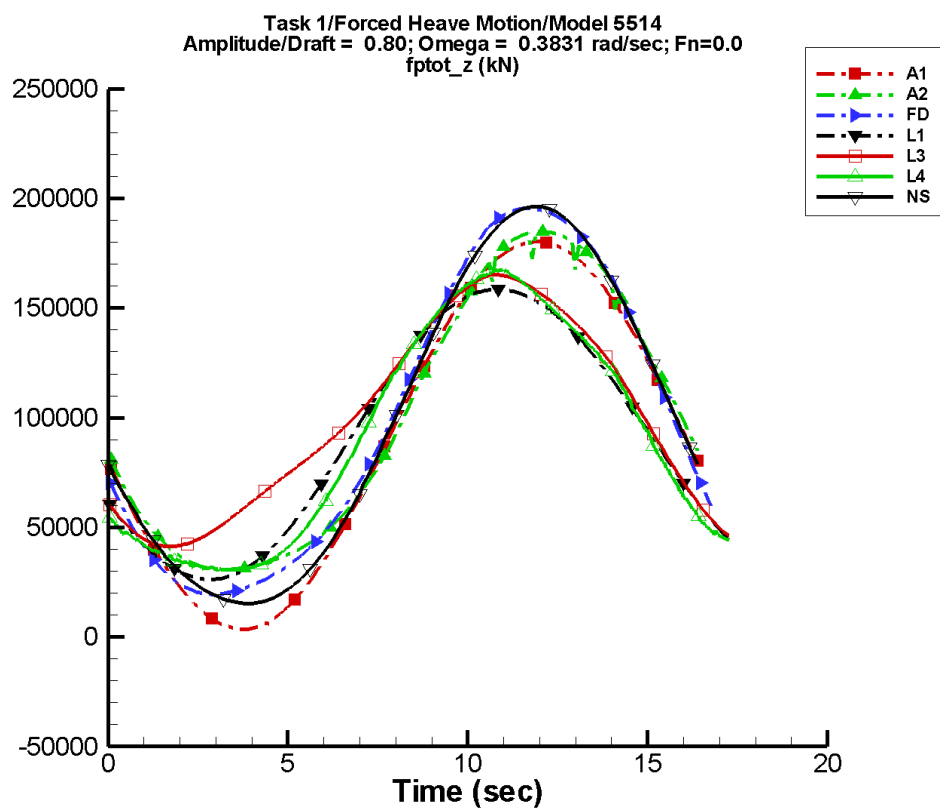
Table B–137. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	4.42E+04	-172	7.77	106
A2	9.33E+04	4.21E+04	-174	1.66E+03	-98
FD	9.42E+04	4.80E+04	-169	2.30E+03	-89
L1	9.21E+04	3.31E+04	-150	344.	80
L3	9.42E+04	3.20E+04	-149	1.95E+03	-93
L4	9.21E+04	3.37E+04	-151	1.33E+03	-31
NF	—	—	—	—	—
NS	9.37E+04	4.69E+04	-171	1.52E+03	-68

Table B–138. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.75E+04	1.36E+05	4.78E+04	1.36E+05
A2	5.32E+04	1.36E+05	5.35E+04	1.36E+05
FD	4.85E+04	1.44E+05	4.87E+04	1.44E+05
L1	5.89E+04	1.25E+05	5.89E+04	1.25E+05
L3	6.27E+04	1.27E+05	6.27E+04	1.27E+05
L4	6.01E+04	1.27E+05	6.03E+04	1.27E+05
NF	—	—	—	—
NS	4.84E+04	1.42E+05	4.88E+04	1.42E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-70. Time history 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 5514 scaled to  $L = 142$  m.

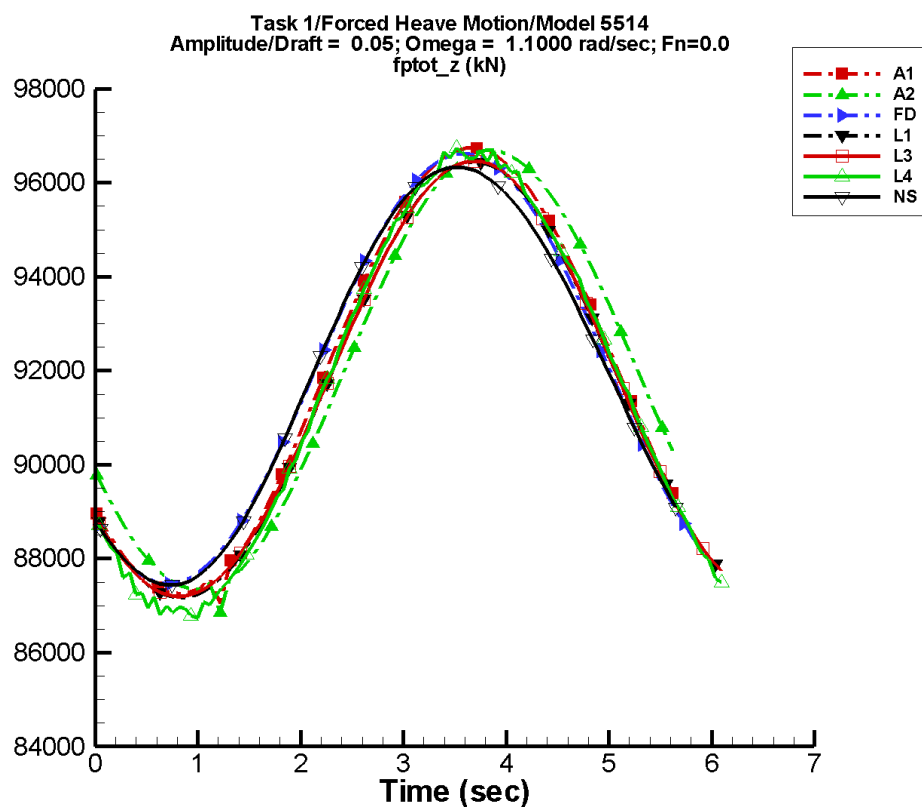
Table B–139. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	8.84E+04	-172	15.5	106
A2	9.97E+04	7.86E+04	-174	8.80E+03	-96
FD	1.01E+05	8.99E+04	-168	8.78E+03	-89
L1	9.28E+04	6.61E+04	-150	1.40E+03	79
L3	1.01E+05	5.91E+04	-145	7.41E+03	-93
L4	9.24E+04	6.88E+04	-152	5.51E+03	-8
NF	—	—	—	—	—
NS	9.94E+04	9.10E+04	-171	6.56E+03	-66

Table B–140. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.13E+03	1.80E+05	3.57E+03	1.80E+05
A2	2.95E+04	1.85E+05	3.06E+04	1.84E+05
FD	1.95E+04	1.96E+05	1.97E+04	1.95E+05
L1	2.62E+04	1.59E+05	2.63E+04	1.58E+05
L3	4.12E+04	1.65E+05	4.13E+04	1.65E+05
L4	3.01E+04	1.68E+05	3.07E+04	1.67E+05
NF	—	—	—	—
NS	1.53E+04	1.96E+05	1.56E+04	1.96E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-71. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

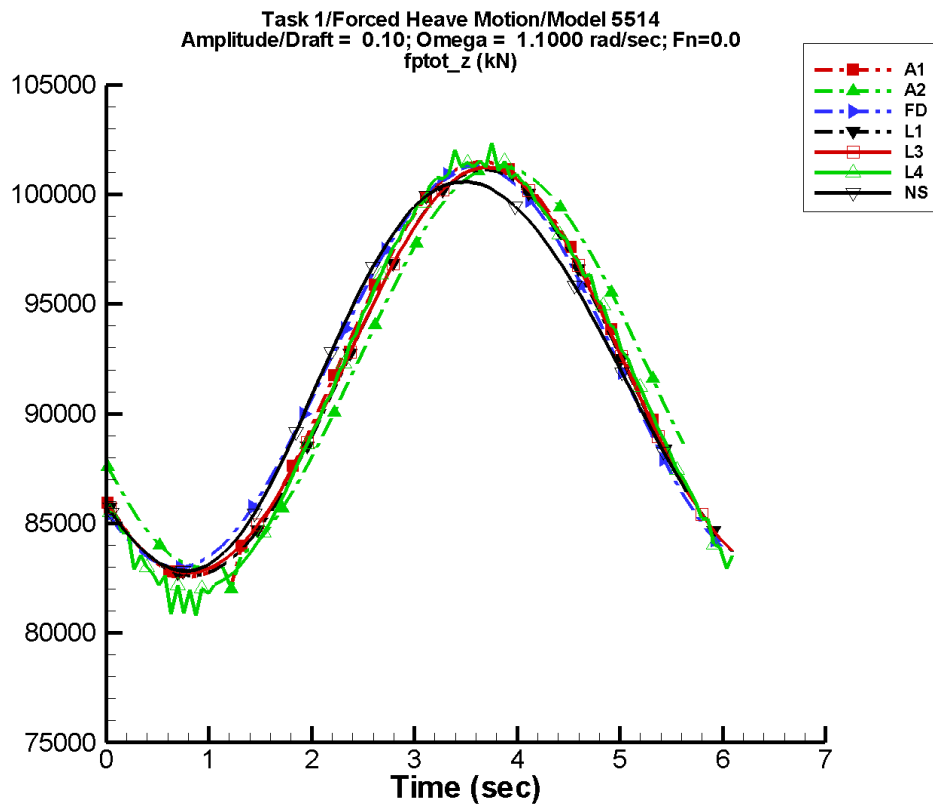
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	4.79E+03	-142	60.3	83
A2	9.20E+04	4.72E+03	-153	42.8	88
FD	9.20E+04	4.58E+03	-135	27.0	-90
L1	9.18E+04	4.63E+03	-142	43.1	-4
L3	9.18E+04	4.63E+03	-142	49.4	-37
L4	9.18E+04	4.87E+03	-142	69.3	118
NF	—	—	—	—	—
NS	9.19E+04	4.44E+03	-134	106.	125

Table B–142. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.69E+04	9.67E+04	8.73E+04	9.66E+04
A2	8.68E+04	9.67E+04	8.73E+04	9.65E+04
FD	8.75E+04	9.66E+04	8.76E+04	9.65E+04
L1	8.72E+04	9.64E+04	8.72E+04	9.64E+04
L3	8.72E+04	9.65E+04	8.72E+04	9.64E+04
L4	8.67E+04	9.67E+04	8.69E+04	9.66E+04
NF	—	—	—	—
NS	8.74E+04	9.63E+04	8.75E+04	9.63E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-72. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

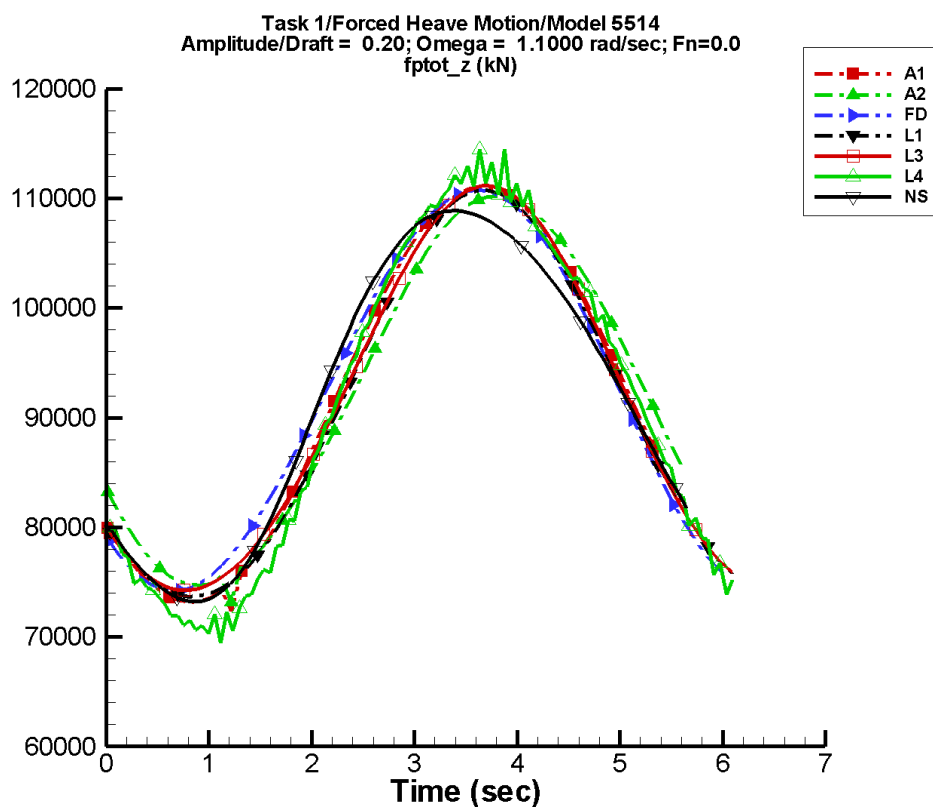
Table B–143. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	9.57E+03	-142	120.	83
A2	9.20E+04	9.28E+03	-152	46.6	100
FD	9.21E+04	9.15E+03	-135	113.	-90
L1	9.17E+04	9.25E+03	-142	182.	-5
L3	9.18E+04	9.23E+03	-142	209.	-38
L4	9.18E+04	9.89E+03	-142	252.	118
NF	—	—	—	—	—
NS	9.19E+04	8.86E+03	-134	427.	125

Table B–144. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.18E+04	1.01E+05	8.26E+04	1.01E+05
A2	8.20E+04	1.01E+05	8.28E+04	1.01E+05
FD	8.30E+04	1.01E+05	8.33E+04	1.01E+05
L1	8.26E+04	1.01E+05	8.27E+04	1.01E+05
L3	8.27E+04	1.01E+05	8.28E+04	1.01E+05
L4	8.08E+04	1.02E+05	8.16E+04	1.01E+05
NF	—	—	—	—
NS	8.28E+04	1.01E+05	8.29E+04	1.01E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-73. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

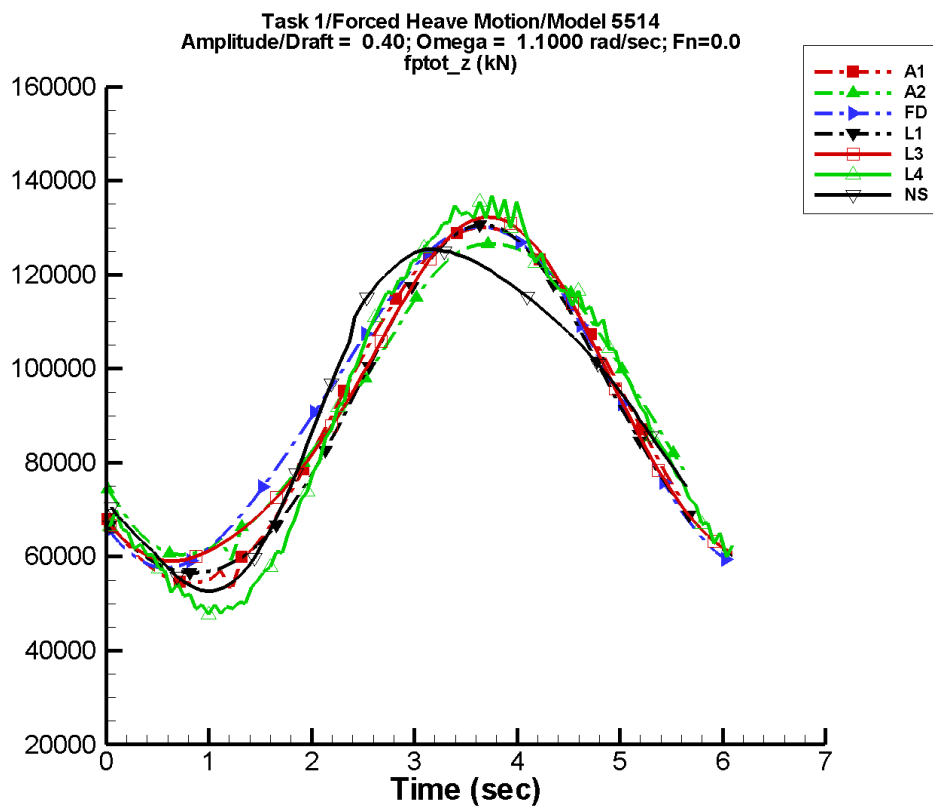
Table B–145. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	1.91E+04	-142	241.	83
A2	9.22E+04	1.79E+04	-151	116.	-130
FD	9.25E+04	1.82E+04	-135	498.	-90
L1	9.15E+04	1.85E+04	-142	746.	-6
L3	9.20E+04	1.84E+04	-142	884.	-40
L4	9.19E+04	2.05E+04	-144	1.08E+03	93
NF	—	—	—	—	—
NS	9.20E+04	1.78E+04	-135	1.77E+03	122

Table B–146. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.16E+04	1.11E+05	7.32E+04	1.10E+05
A2	7.32E+04	1.10E+05	7.46E+04	1.10E+05
FD	7.42E+04	1.11E+05	7.48E+04	1.10E+05
L1	7.37E+04	1.11E+05	7.39E+04	1.10E+05
L3	7.43E+04	1.11E+05	7.44E+04	1.11E+05
L4	6.94E+04	1.14E+05	7.10E+04	1.12E+05
NF	—	—	—	—
NS	7.32E+04	1.09E+05	7.34E+04	1.09E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-74. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

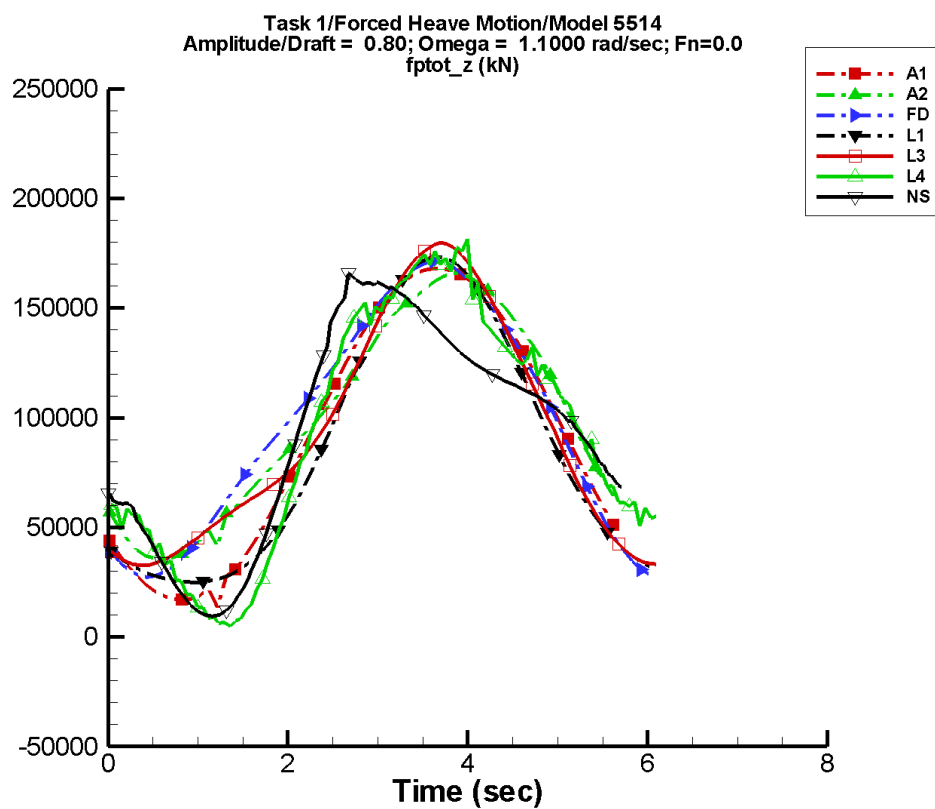
Table B–147. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	3.83E+04	-142	482.	83
A2	9.33E+04	3.31E+04	-147	1.14E+03	-110
FD	9.42E+04	3.58E+04	-134	2.35E+03	-90
L1	9.07E+04	3.70E+04	-142	3.02E+03	-6
L3	9.28E+04	3.60E+04	-141	3.78E+03	-44
L4	9.25E+04	4.19E+04	-146	3.92E+03	85
NF	—	—	—	—	—
NS	9.20E+04	3.50E+04	-136	6.84E+03	114

Table B–148. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	5.12E+04	1.30E+05	5.45E+04	1.29E+05
A2	5.69E+04	1.27E+05	6.06E+04	1.26E+05
FD	5.76E+04	1.30E+05	5.89E+04	1.29E+05
L1	5.65E+04	1.31E+05	5.68E+04	1.30E+05
L3	5.91E+04	1.32E+05	5.94E+04	1.32E+05
L4	4.73E+04	1.37E+05	4.91E+04	1.34E+05
NF	—	—	—	—
NS	5.27E+04	1.26E+05	5.33E+04	1.25E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-75. Time history 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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

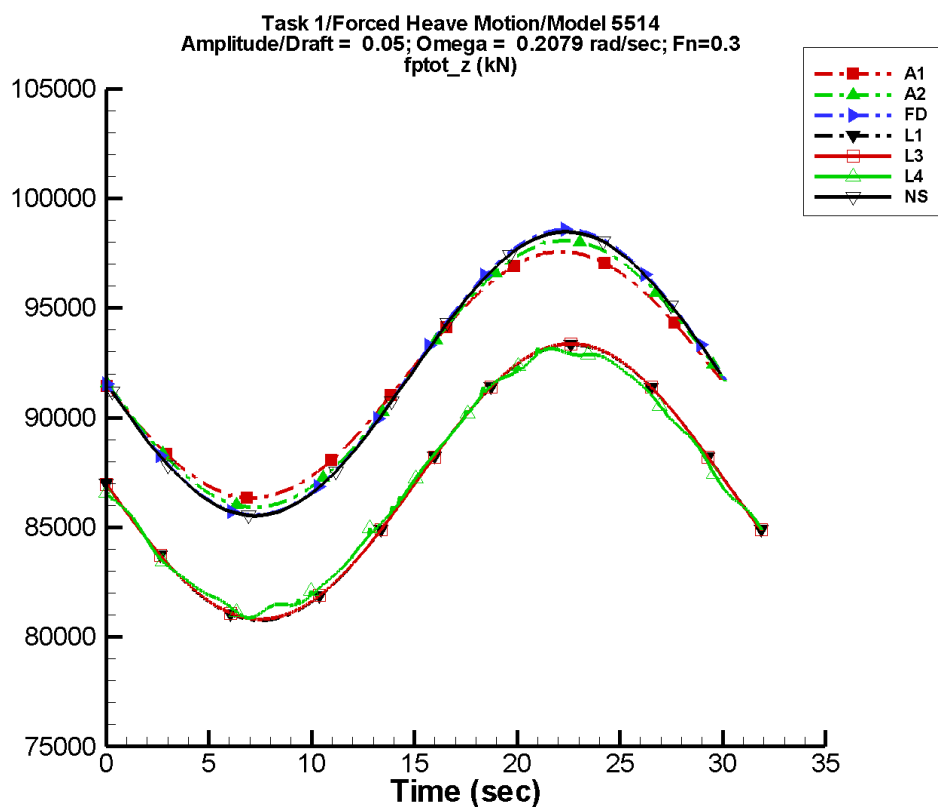
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	7.65E+04	-142	963.	83
A2	9.99E+04	6.23E+04	-144	8.03E+03	-105
FD	1.01E+05	6.75E+04	-130	9.29E+03	-90
L1	8.73E+04	7.40E+04	-142	1.22E+04	-6
L3	9.60E+04	6.77E+04	-137	1.51E+04	-44
L4	9.52E+04	7.60E+04	-148	1.65E+04	76
NF	—	—	—	—	—
NS	9.26E+04	6.38E+04	-137	2.50E+04	107

Table B–150. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.05E+04	1.68E+05	1.70E+04	1.66E+05
A2	2.91E+04	1.66E+05	3.71E+04	1.62E+05
FD	2.73E+04	1.72E+05	3.08E+04	1.68E+05
L1	2.49E+04	1.73E+05	2.53E+04	1.72E+05
L3	3.27E+04	1.80E+05	3.38E+04	1.78E+05
L4	5.04E+03	1.81E+05	7.89E+03	1.73E+05
NF	—	—	—	—
NS	9.36E+03	1.66E+05	1.02E+04	1.62E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-76. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

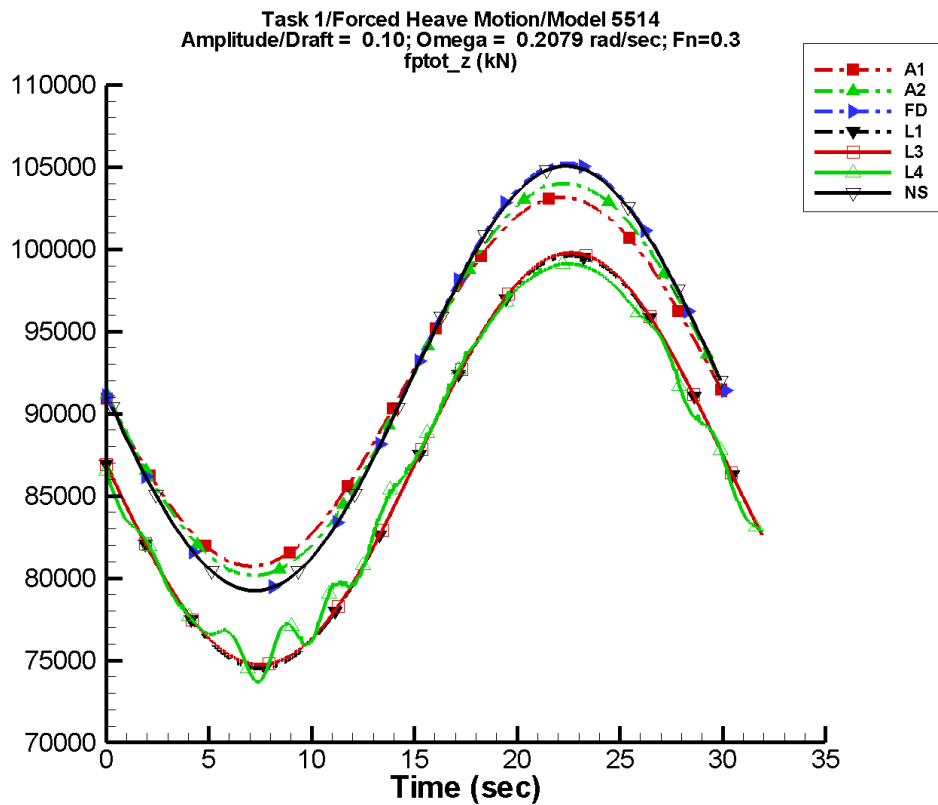
Table B–151. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.61E+03	-175	18.0	-1
A2	9.20E+04	6.08E+03	-176	24.6	-50
FD	9.20E+04	6.51E+03	-176	27.0	-90
L1	8.71E+04	6.29E+03	-179	1.15	81
L3	8.71E+04	6.28E+03	-179	25.9	-91
L4	8.71E+04	5.97E+03	-178	25.7	-86
NF	—	—	—	—	—
NS	9.20E+04	6.48E+03	-177	24.9	-125

Table B–152. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.63E+04	9.76E+04	8.63E+04	9.76E+04
A2	8.59E+04	9.81E+04	8.59E+04	9.81E+04
FD	8.56E+04	9.86E+04	8.56E+04	9.86E+04
L1	8.08E+04	9.33E+04	8.08E+04	9.33E+04
L3	8.08E+04	9.34E+04	8.08E+04	9.34E+04
L4	8.09E+04	9.32E+04	8.09E+04	9.31E+04
NF	—	—	—	—
NS	8.55E+04	9.85E+04	8.56E+04	9.84E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-77. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

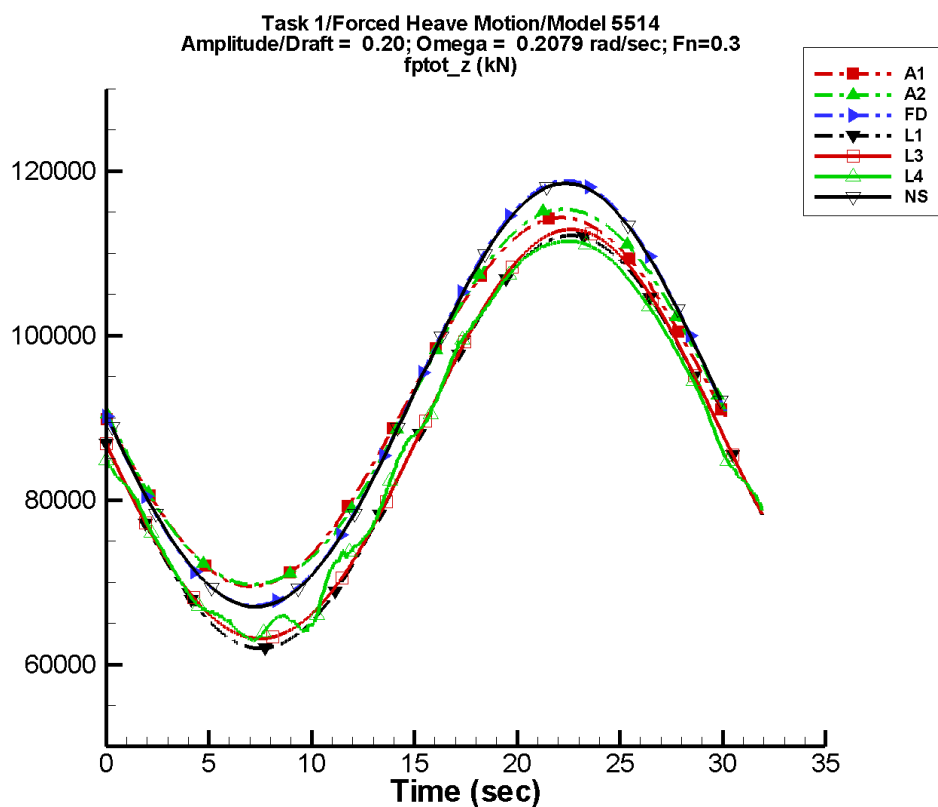
Table B–153. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	1.12E+04	-175	35.9	-1
A2	9.20E+04	1.20E+04	-176	84.6	-71
FD	9.21E+04	1.30E+04	-176	112.	-90
L1	8.71E+04	1.26E+04	-179	4.53	80
L3	8.72E+04	1.25E+04	-179	108.	-91
L4	8.71E+04	1.19E+04	-177	107.	-94
NF	—	—	—	—	—
NS	9.21E+04	1.29E+04	-176	94.7	-102

Table B–154. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.07E+04	1.03E+05	8.07E+04	1.03E+05
A2	8.02E+04	1.04E+05	8.02E+04	1.04E+05
FD	7.92E+04	1.05E+05	7.93E+04	1.05E+05
L1	7.45E+04	9.96E+04	7.45E+04	9.96E+04
L3	7.47E+04	9.98E+04	7.47E+04	9.98E+04
L4	7.37E+04	9.91E+04	7.38E+04	9.91E+04
NF	—	—	—	—
NS	7.92E+04	1.05E+05	7.94E+04	1.05E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-78. Time history of  $F_z^{ptot}$  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 5514 scaled to  $L = 142$  m.

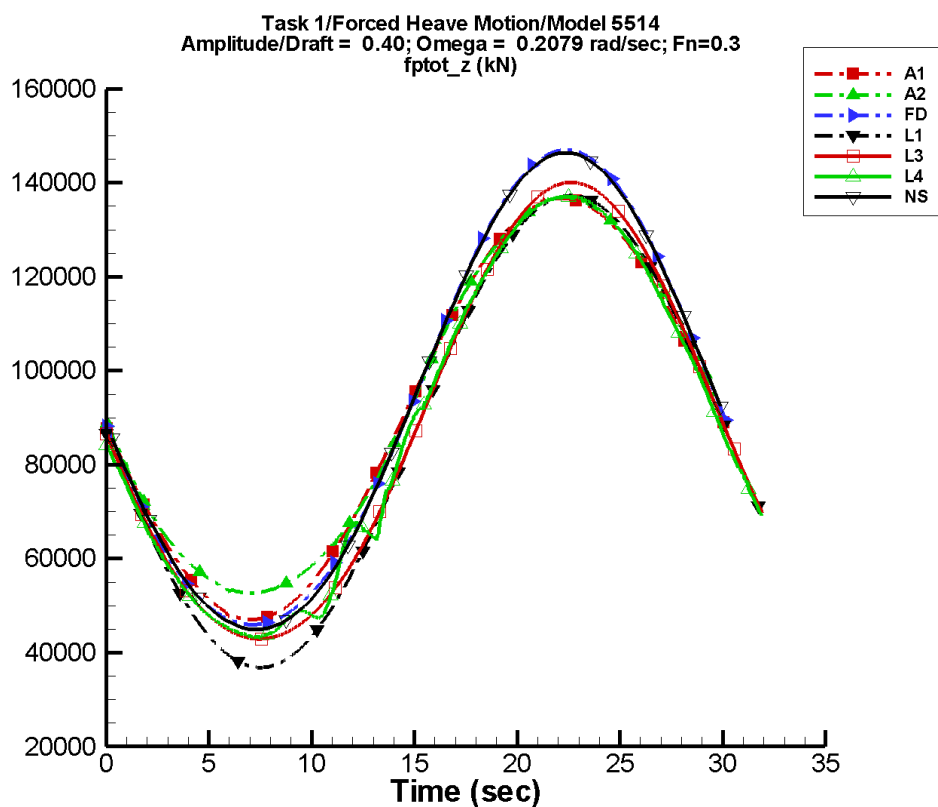
Table B–155. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	2.24E+04	-175	71.8	-1
A2	9.22E+04	2.31E+04	-176	358.	-85
FD	9.25E+04	2.59E+04	-176	494.	-90
L1	8.71E+04	2.51E+04	-179	18.1	80
L3	8.75E+04	2.49E+04	-179	484.	-91
L4	8.74E+04	2.39E+04	-177	227.	-63
NF	—	—	—	—	—
NS	9.24E+04	2.58E+04	-177	392.	-88

Table B–156. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.95E+04	1.14E+05	6.95E+04	1.14E+05
A2	6.97E+04	1.15E+05	6.97E+04	1.15E+05
FD	6.71E+04	1.19E+05	6.72E+04	1.19E+05
L1	6.19E+04	1.12E+05	6.20E+04	1.12E+05
L3	6.31E+04	1.13E+05	6.31E+04	1.13E+05
L4	6.29E+04	1.11E+05	6.30E+04	1.11E+05
NF	—	—	—	—
NS	6.70E+04	1.19E+05	6.73E+04	1.18E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-79. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

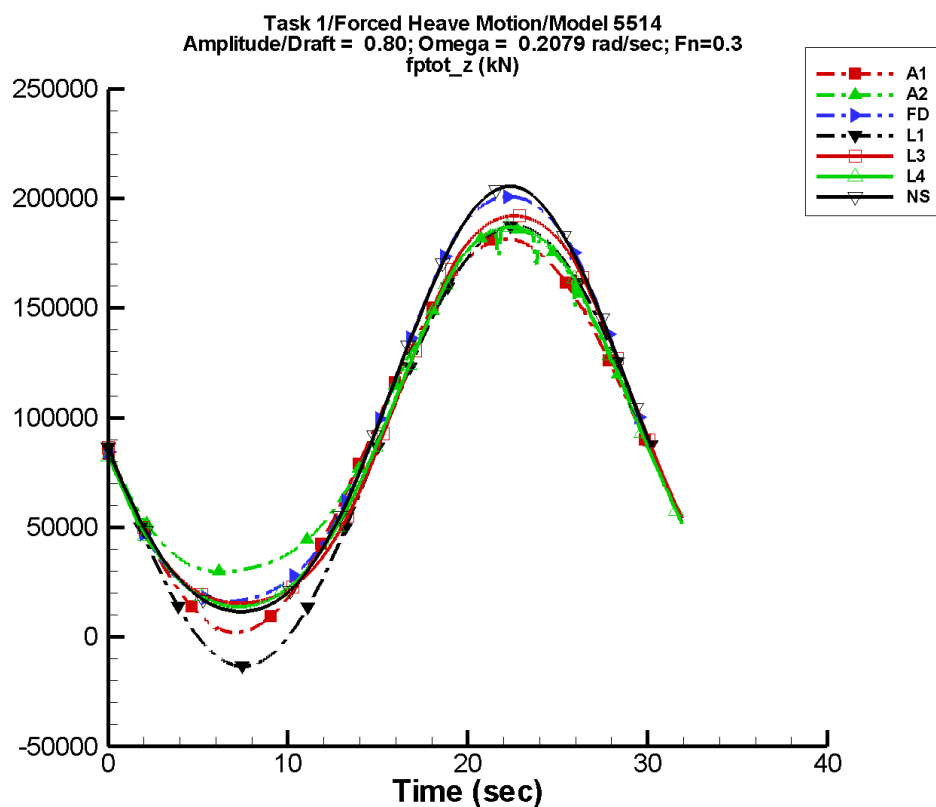
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	4.48E+04	-175	144.	-1
A2	9.32E+04	4.29E+04	-176	1.65E+03	-91
FD	9.42E+04	5.09E+04	-176	2.32E+03	-89
L1	8.71E+04	5.02E+04	-179	72.5	80
L3	8.93E+04	4.89E+04	-179	2.28E+03	-91
L4	8.88E+04	4.69E+04	-177	1.66E+03	-89
NF	—	—	—	—	—
NS	9.39E+04	5.09E+04	-177	1.77E+03	-81

Table B–158. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.70E+04	1.37E+05	4.71E+04	1.37E+05
A2	5.27E+04	1.37E+05	5.27E+04	1.37E+05
FD	4.60E+04	1.47E+05	4.60E+04	1.47E+05
L1	3.68E+04	1.37E+05	3.68E+04	1.37E+05
L3	4.29E+04	1.40E+05	4.30E+04	1.40E+05
L4	4.33E+04	1.37E+05	4.34E+04	1.37E+05
NF	—	—	—	—
NS	4.49E+04	1.46E+05	4.54E+04	1.46E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–80. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

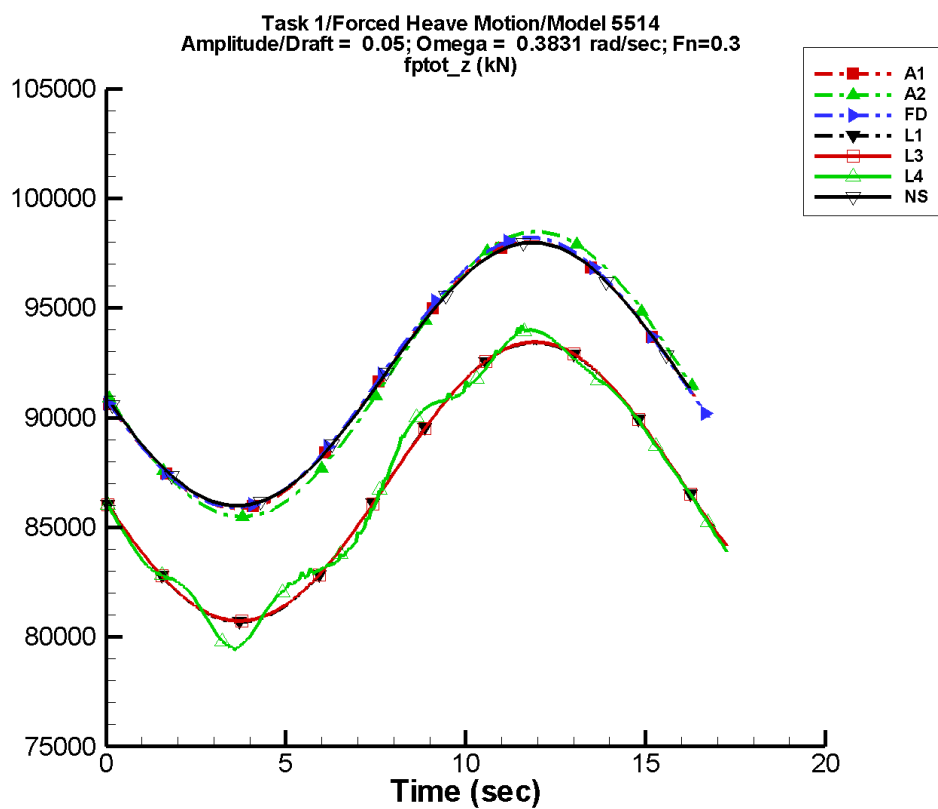
Table B–159. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.18E+04	8.95E+04	-175	287.	-1
A2	9.96E+04	8.01E+04	-175	8.82E+03	-92
FD	1.01E+05	9.55E+04	-176	9.02E+03	-88
L1	8.73E+04	1.00E+05	-179	290.	80
L3	9.60E+04	9.16E+04	-179	8.92E+03	-92
L4	9.40E+04	8.87E+04	-177	7.38E+03	-88
NF	—	—	—	—	—
NS	1.00E+05	9.81E+04	-177	8.10E+03	-80

Table B–160. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	2.09E+03	1.82E+05	2.19E+03	1.81E+05
A2	2.86E+04	1.86E+05	2.96E+04	1.86E+05
FD	1.63E+04	2.01E+05	1.63E+04	2.01E+05
L1	-1.34E+04	1.87E+05	-1.34E+04	1.87E+05
L3	1.54E+04	1.92E+05	1.54E+04	1.92E+05
L4	1.35E+04	1.87E+05	1.38E+04	1.87E+05
NF	—	—	—	—
NS	1.15E+04	2.06E+05	1.18E+04	2.05E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-81. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

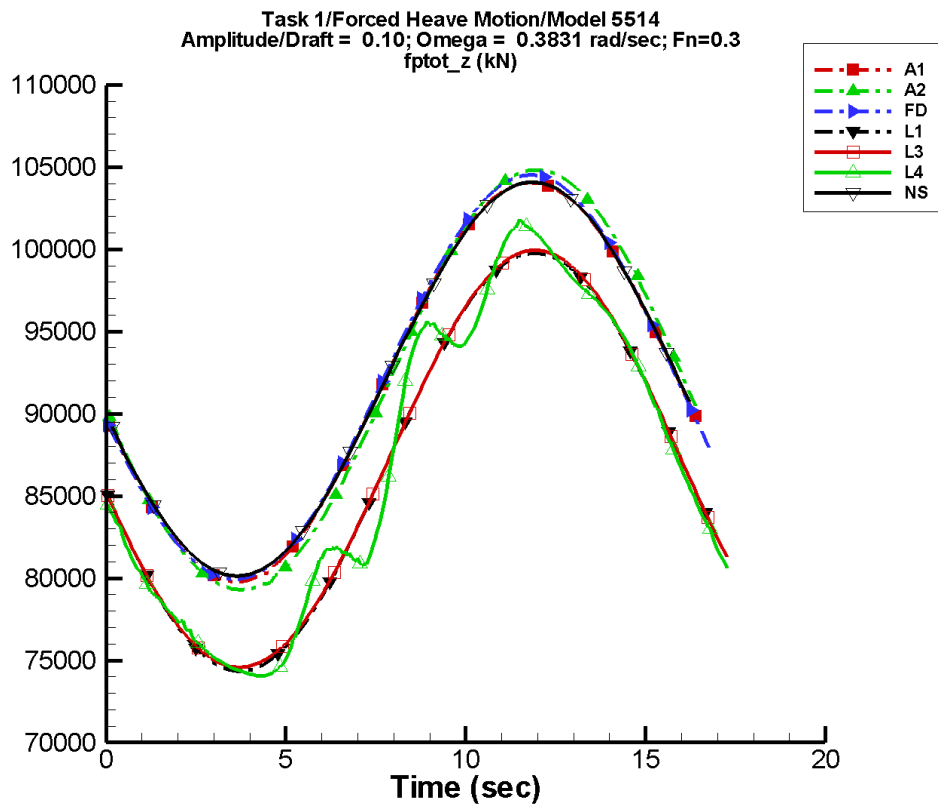
Table B–161. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	6.07E+03	-170	2.13	16
A2	9.20E+04	6.51E+03	-173	18.1	-93
FD	9.20E+04	6.15E+03	-169	27.0	-90
L1	8.71E+04	6.36E+03	-172	3.18	48
L3	8.71E+04	6.36E+03	-172	24.5	-88
L4	8.71E+04	6.45E+03	-170	57.8	71
NF	—	—	—	—	—
NS	9.20E+04	6.01E+03	-170	16.5	-137

Table B–162. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.59E+04	9.80E+04	8.59E+04	9.80E+04
A2	8.55E+04	9.85E+04	8.55E+04	9.85E+04
FD	8.59E+04	9.82E+04	8.59E+04	9.82E+04
L1	8.07E+04	9.34E+04	8.07E+04	9.34E+04
L3	8.07E+04	9.35E+04	8.07E+04	9.34E+04
L4	7.94E+04	9.42E+04	7.96E+04	9.40E+04
NF	—	—	—	—
NS	8.60E+04	9.80E+04	8.60E+04	9.79E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–82. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.21E+04	-170	4.26	16
A2	9.20E+04	1.28E+04	-173	78.9	-96
FD	9.21E+04	1.23E+04	-169	112.	-90
L1	8.71E+04	1.27E+04	-172	12.8	48
L3	8.72E+04	1.27E+04	-172	102.	-88
L4	8.71E+04	1.28E+04	-171	274.	-50
NF	—	—	—	—	—
NS	9.20E+04	1.20E+04	-170	66.2	-97

Table B–164. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.98E+04	1.04E+05	7.98E+04	1.04E+05
A2	7.93E+04	1.05E+05	7.93E+04	1.05E+05
FD	7.99E+04	1.05E+05	8.00E+04	1.04E+05
L1	7.43E+04	9.98E+04	7.44E+04	9.97E+04
L3	7.46E+04	9.99E+04	7.46E+04	9.99E+04
L4	7.41E+04	1.02E+05	7.41E+04	1.01E+05
NF	—	—	—	—
NS	8.01E+04	1.04E+05	8.02E+04	1.04E+05

# TASK 1/HEAVE MOTION/MODEL 5514

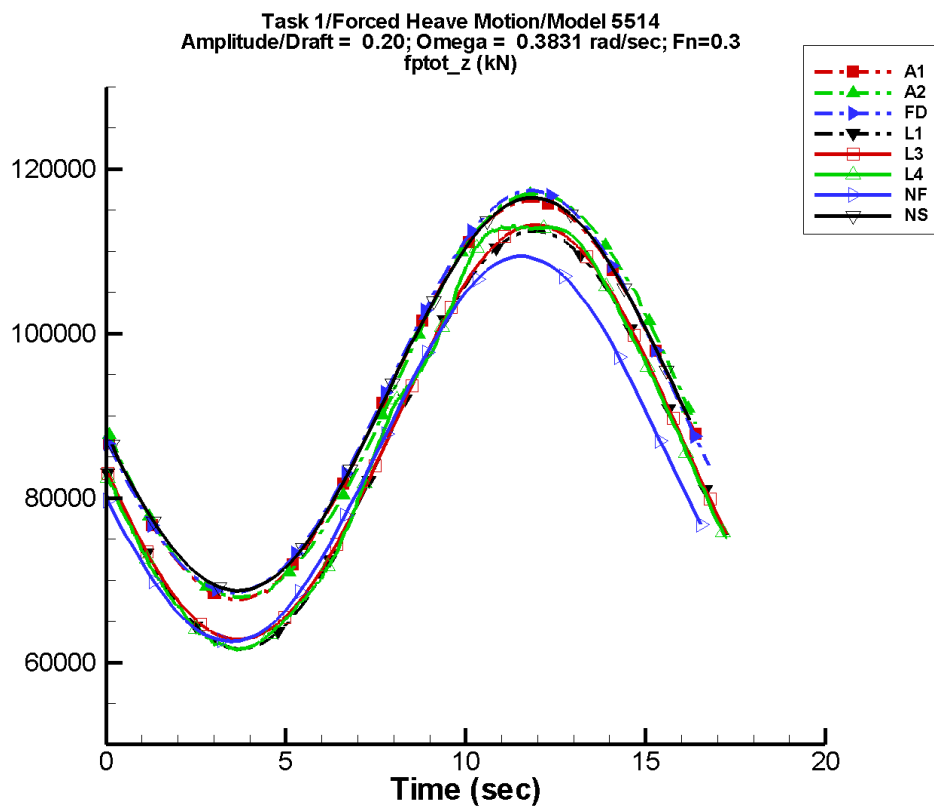


Figure B–83. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.42E+04	-170	8.52	16
A2	9.22E+04	2.48E+04	-172	356.	-98
FD	9.25E+04	2.45E+04	-169	491.	-90
L1	8.71E+04	2.54E+04	-172	51.1	48
L3	8.75E+04	2.53E+04	-172	452.	-89
L4	8.74E+04	2.60E+04	-170	325.	-61
NF	8.60E+04	2.40E+04	-152	648.	-7
NS	9.23E+04	2.39E+04	-170	307.	-75

Table B–166. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.76E+04	1.16E+05	6.77E+04	1.16E+05
A2	6.79E+04	1.17E+05	6.80E+04	1.17E+05
FD	6.85E+04	1.17E+05	6.86E+04	1.17E+05
L1	6.16E+04	1.12E+05	6.17E+04	1.12E+05
L3	6.28E+04	1.13E+05	6.28E+04	1.13E+05
L4	6.15E+04	1.13E+05	6.17E+04	1.13E+05
NF	6.19E+04	1.12E+05	6.21E+04	1.12E+05
NS	6.87E+04	1.17E+05	6.89E+04	1.16E+05



# TASK 1/HEAVE MOTION/MODEL 5514

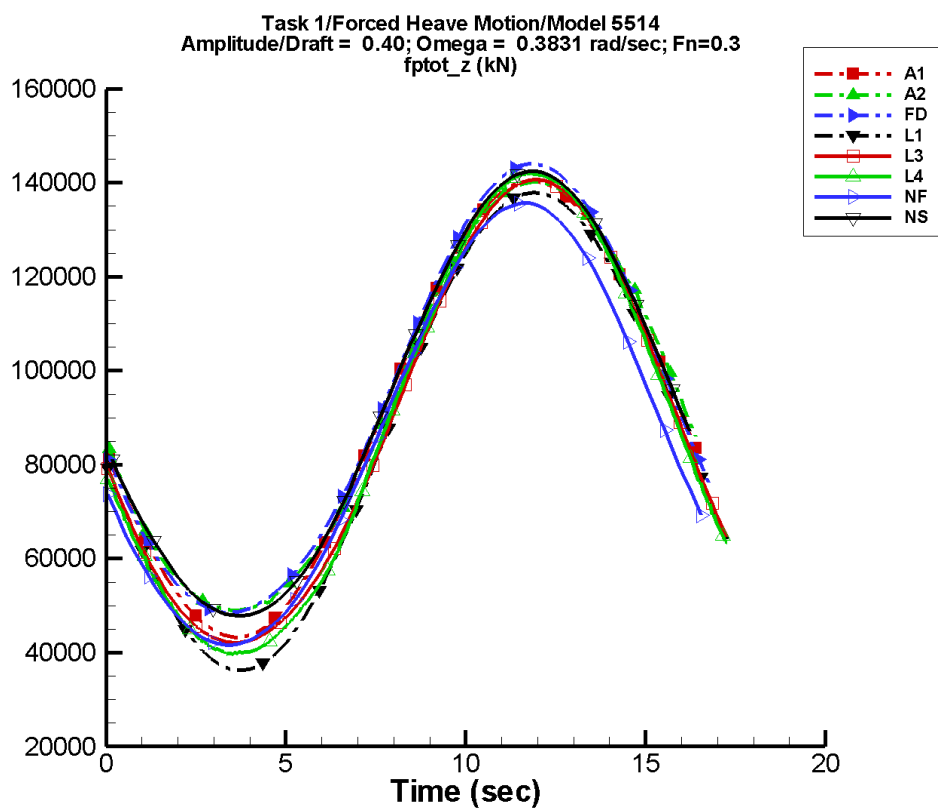


Figure B–84. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	4.85E+04	-170	17.0	16
A2	9.33E+04	4.63E+04	-172	1.66E+03	-97
FD	9.42E+04	4.80E+04	-169	2.30E+03	-89
L1	8.72E+04	5.08E+04	-172	205.	48
L3	8.93E+04	4.96E+04	-172	2.13E+03	-90
L4	8.88E+04	5.14E+04	-170	2.06E+03	-73
NF	8.75E+04	4.77E+04	-152	1.92E+03	-25
NS	9.36E+04	4.75E+04	-170	1.43E+03	-63

Table B–168. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.33E+04	1.40E+05	4.35E+04	1.40E+05
A2	4.90E+04	1.40E+05	4.92E+04	1.40E+05
FD	4.85E+04	1.44E+05	4.87E+04	1.44E+05
L1	3.62E+04	1.38E+05	3.63E+04	1.38E+05
L3	4.21E+04	1.41E+05	4.22E+04	1.41E+05
L4	3.97E+04	1.42E+05	3.99E+04	1.42E+05
NF	4.13E+04	1.39E+05	4.15E+04	1.39E+05
NS	4.78E+04	1.43E+05	4.82E+04	1.42E+05

# TASK 1/HEAVE MOTION/MODEL 5514

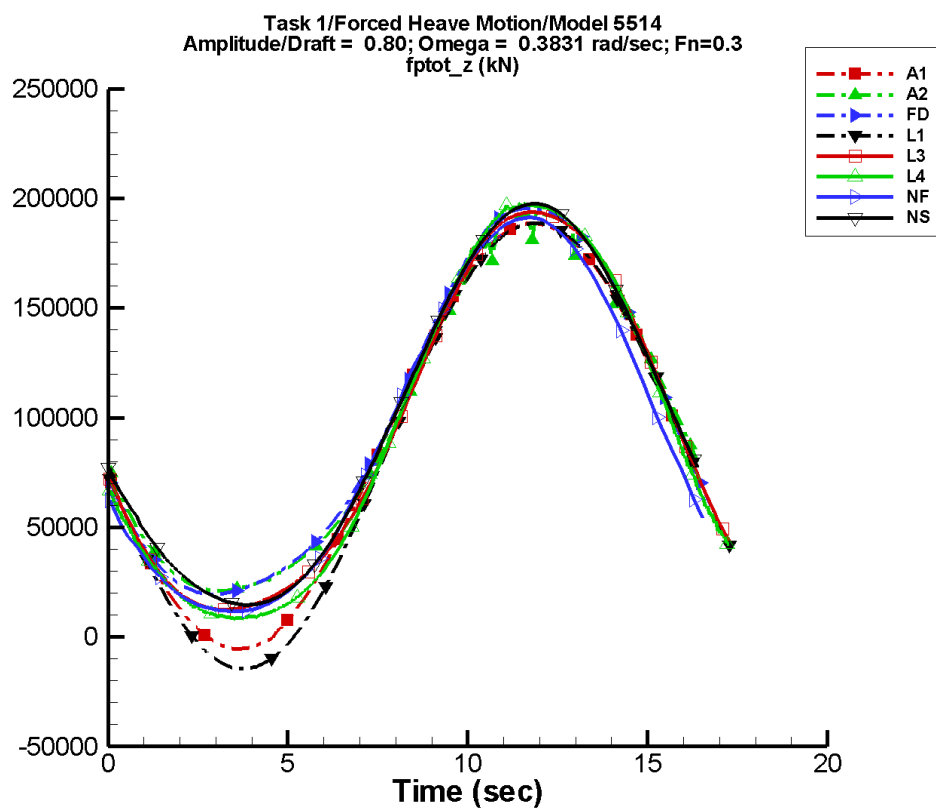


Figure B–85. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

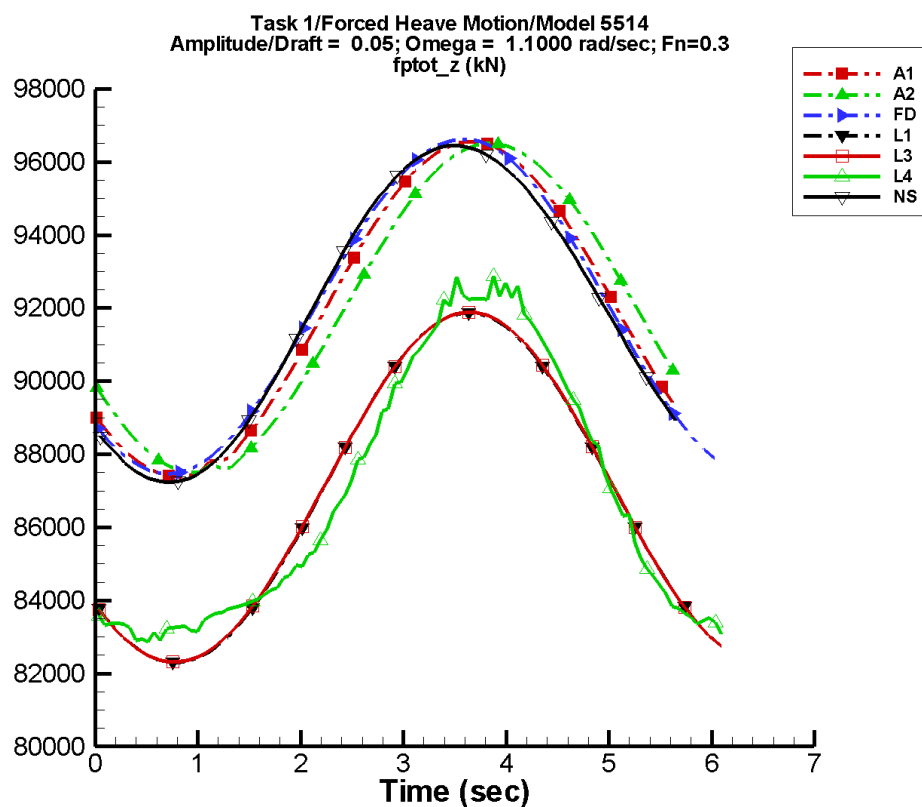
Table B–169. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	9.69E+04	-170	34.1	16
A2	9.96E+04	8.70E+04	-171	8.80E+03	-96
FD	1.01E+05	8.99E+04	-168	8.78E+03	-89
L1	8.76E+04	1.02E+05	-172	819.	48
L3	9.62E+04	9.33E+04	-171	8.17E+03	-91
L4	9.50E+04	9.74E+04	-170	8.60E+03	-72
NF	9.42E+04	9.19E+04	-153	8.16E+03	-33
NS	9.95E+04	9.19E+04	-171	6.68E+03	-63

Table B–170. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.42E+03	1.89E+05	-5.02E+03	1.88E+05
A2	2.11E+04	1.93E+05	2.13E+04	1.92E+05
FD	1.95E+04	1.96E+05	1.97E+04	1.95E+05
L1	-1.45E+04	1.89E+05	-1.44E+04	1.89E+05
L3	1.25E+04	1.94E+05	1.25E+04	1.94E+05
L4	8.20E+03	1.98E+05	8.63E+03	1.97E+05
NF	1.14E+04	1.96E+05	1.16E+04	1.95E+05
NS	1.46E+04	1.98E+05	1.49E+04	1.97E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

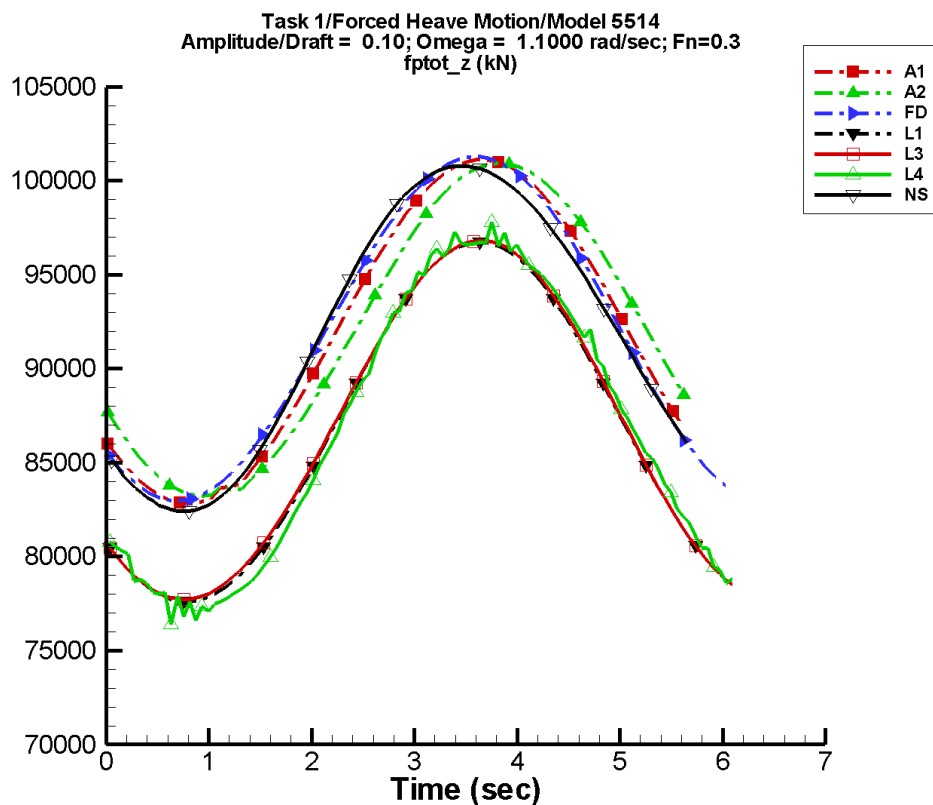
Table B–171. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	4.60E+03	-141	32.9	49
A2	9.20E+04	4.53E+03	-153	17.9	25
FD	9.20E+04	4.58E+03	-135	27.0	-90
L1	8.70E+04	4.78E+03	-139	45.2	-2
L3	8.71E+04	4.78E+03	-139	50.0	-34
L4	8.71E+04	4.73E+03	-145	909.	-39
NF	—	—	—	—	—
NS	9.19E+04	4.60E+03	-133	131.	125

Table B–172. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.70E+04	9.66E+04	8.75E+04	9.64E+04
A2	8.72E+04	9.65E+04	8.75E+04	9.64E+04
FD	8.75E+04	9.66E+04	8.76E+04	9.65E+04
L1	8.23E+04	9.19E+04	8.23E+04	9.18E+04
L3	8.23E+04	9.19E+04	8.24E+04	9.18E+04
L4	8.29E+04	9.29E+04	8.31E+04	9.25E+04
NF	—	—	—	—
NS	8.72E+04	9.64E+04	8.73E+04	9.64E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-87. Time history of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	9.19E+03	-141	65.7	49
A2	9.20E+04	8.89E+03	-152	31.8	-50
FD	9.21E+04	9.15E+03	-135	113.	-90
L1	8.70E+04	9.55E+03	-139	181.	-3
L3	8.71E+04	9.53E+03	-139	205.	-36
L4	8.70E+04	9.95E+03	-143	276.	56
NF	—	—	—	—	—
NS	9.18E+04	9.18E+03	-133	471.	123

Table B–174. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.20E+04	1.01E+05	8.30E+04	1.01E+05
A2	8.26E+04	1.01E+05	8.32E+04	1.01E+05
FD	8.30E+04	1.01E+05	8.33E+04	1.01E+05
L1	7.76E+04	9.67E+04	7.77E+04	9.66E+04
L3	7.77E+04	9.68E+04	7.78E+04	9.67E+04
L4	7.64E+04	9.78E+04	7.72E+04	9.69E+04
NF	—	—	—	—
NS	8.24E+04	1.01E+05	8.25E+04	1.01E+05



# TASK 1/HEAVE MOTION/MODEL 5514

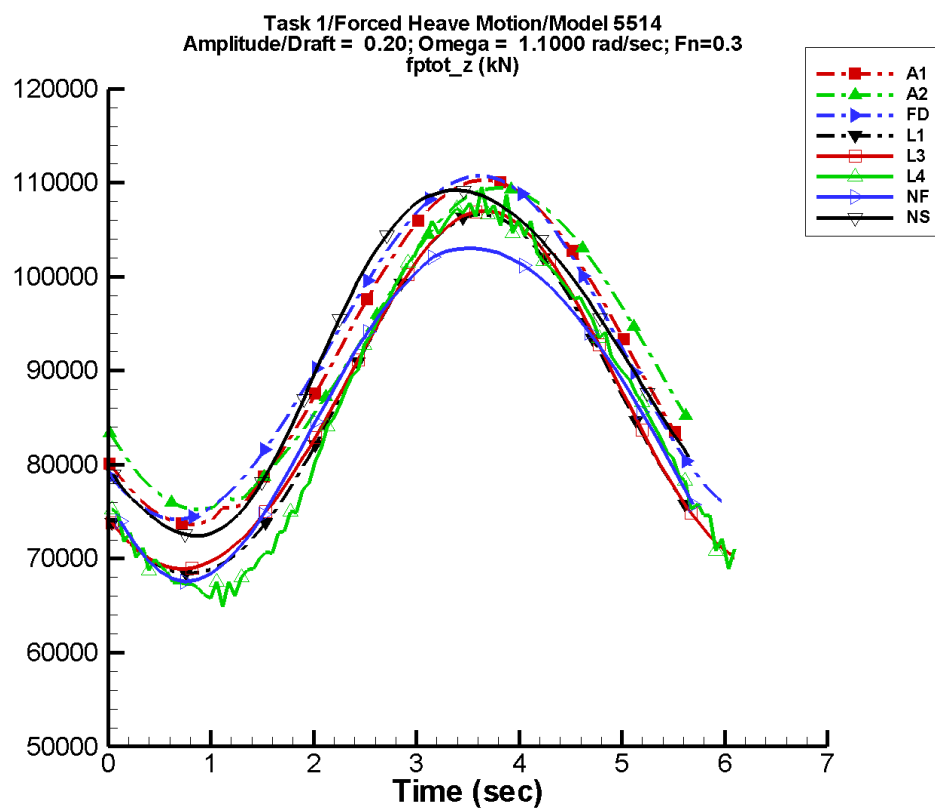


Figure B–88. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.19E+04	1.84E+04	-141	131.	49
A2	9.22E+04	1.71E+04	-151	229.	-94
FD	9.25E+04	1.82E+04	-135	498.	-90
L1	8.68E+04	1.91E+04	-139	725.	-3
L3	8.73E+04	1.90E+04	-139	851.	-39
L4	8.69E+04	2.04E+04	-144	1.33E+03	76
NF	8.67E+04	1.76E+04	-134	1.45E+03	169
NS	9.16E+04	1.84E+04	-134	1.77E+03	118

Table B–176. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.20E+04	1.10E+05	7.41E+04	1.10E+05
A2	7.37E+04	1.09E+05	7.54E+04	1.09E+05
FD	7.42E+04	1.11E+05	7.48E+04	1.10E+05
L1	6.84E+04	1.07E+05	6.86E+04	1.06E+05
L3	6.89E+04	1.07E+05	6.91E+04	1.07E+05
L4	6.49E+04	1.10E+05	6.66E+04	1.07E+05
NF	6.73E+04	1.03E+05	6.86E+04	1.02E+05
NS	7.24E+04	1.09E+05	7.26E+04	1.09E+05

# TASK 1/HEAVE MOTION/MODEL 5514

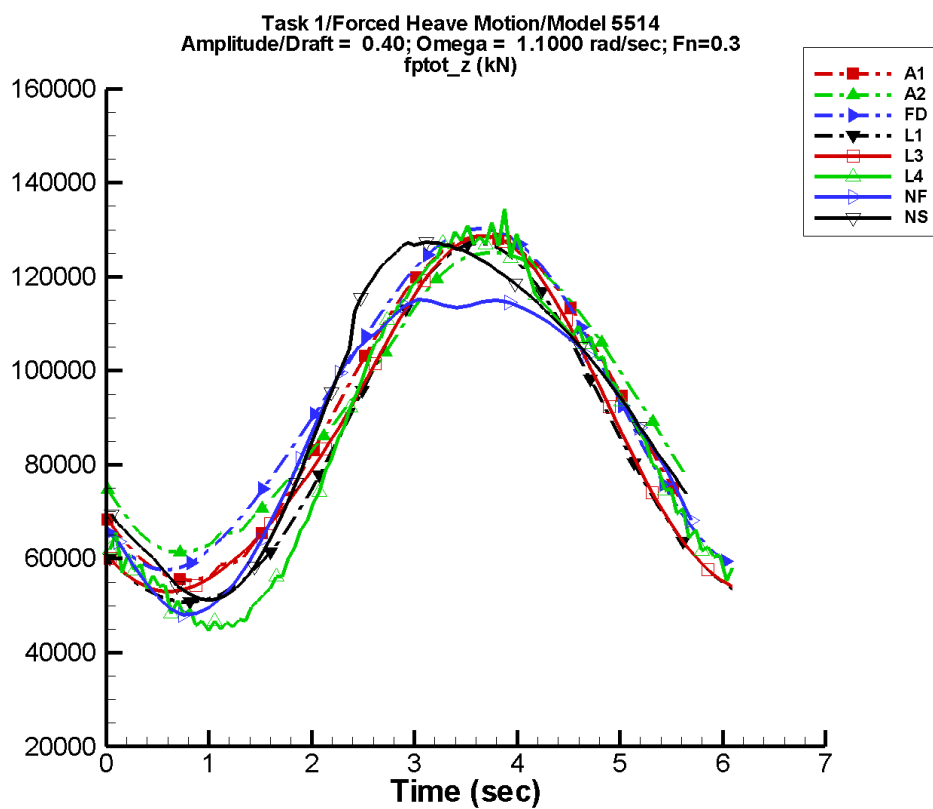


Figure B–89. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $Fn = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.18E+04	3.68E+04	-141	263.	49
A2	9.32E+04	3.16E+04	-147	1.37E+03	-102
FD	9.42E+04	3.58E+04	-134	2.35E+03	-90
L1	8.61E+04	3.82E+04	-139	2.90E+03	-4
L3	8.82E+04	3.73E+04	-138	3.61E+03	-44
L4	8.72E+04	4.11E+04	-145	4.14E+03	68
NF	8.80E+04	3.33E+04	-138	6.77E+03	156
NS	9.19E+04	3.69E+04	-136	7.34E+03	108

Table B–178. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	5.20E+04	1.29E+05	5.62E+04	1.27E+05
A2	5.77E+04	1.25E+05	6.23E+04	1.24E+05
FD	5.76E+04	1.30E+05	5.89E+04	1.29E+05
L1	5.08E+04	1.27E+05	5.11E+04	1.27E+05
L3	5.30E+04	1.29E+05	5.33E+04	1.28E+05
L4	4.41E+04	1.35E+05	4.59E+04	1.29E+05
NF	4.81E+04	1.15E+05	5.13E+04	1.14E+05
NS	5.11E+04	1.28E+05	5.16E+04	1.27E+05

# TASK 1/HEAVE MOTION/MODEL 5514

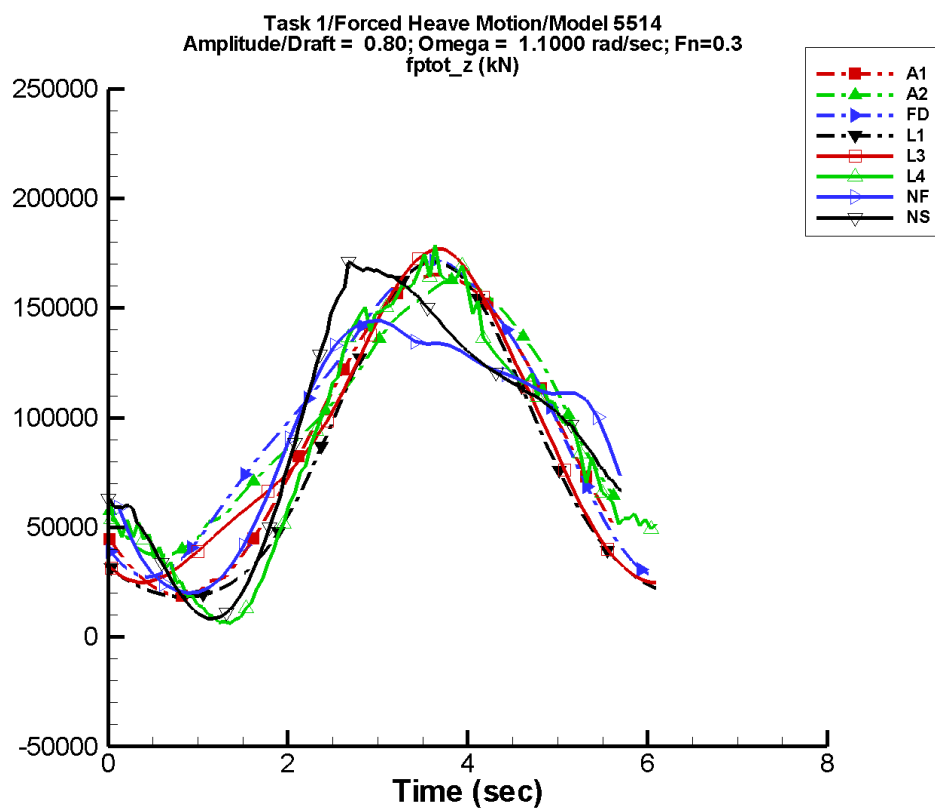


Figure B-90. Time history of  $F_z^{ptot}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

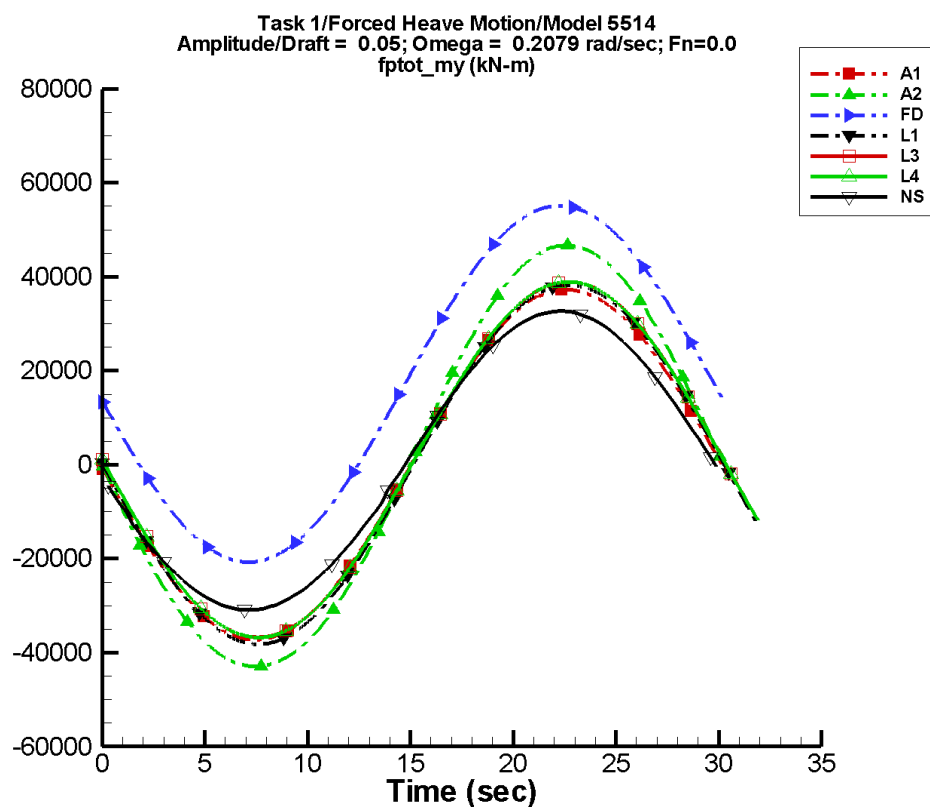
Table B–179. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.16E+04	7.36E+04	-141	525.	49
A2	9.96E+04	5.93E+04	-144	8.52E+03	-102
FD	1.01E+05	6.75E+04	-130	9.29E+03	-90
L1	8.32E+04	7.64E+04	-139	1.16E+04	-4
L3	9.18E+04	7.04E+04	-134	1.44E+04	-44
L4	9.02E+04	7.31E+04	-146	1.64E+04	69
NF	9.32E+04	5.65E+04	-136	2.07E+04	145
NS	9.39E+04	6.71E+04	-136	2.59E+04	104

Table B–180. Minimum and maximum of  $F_z^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	1.20E+04	1.65E+05	2.05E+04	1.63E+05
A2	3.06E+04	1.63E+05	4.02E+04	1.60E+05
FD	2.73E+04	1.72E+05	3.08E+04	1.68E+05
L1	1.83E+04	1.71E+05	1.87E+04	1.70E+05
L3	2.48E+04	1.77E+05	2.58E+04	1.75E+05
L4	6.18E+03	1.79E+05	8.42E+03	1.68E+05
NF	1.99E+04	1.44E+05	2.45E+04	1.40E+05
NS	8.28E+03	1.72E+05	9.16E+03	1.69E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

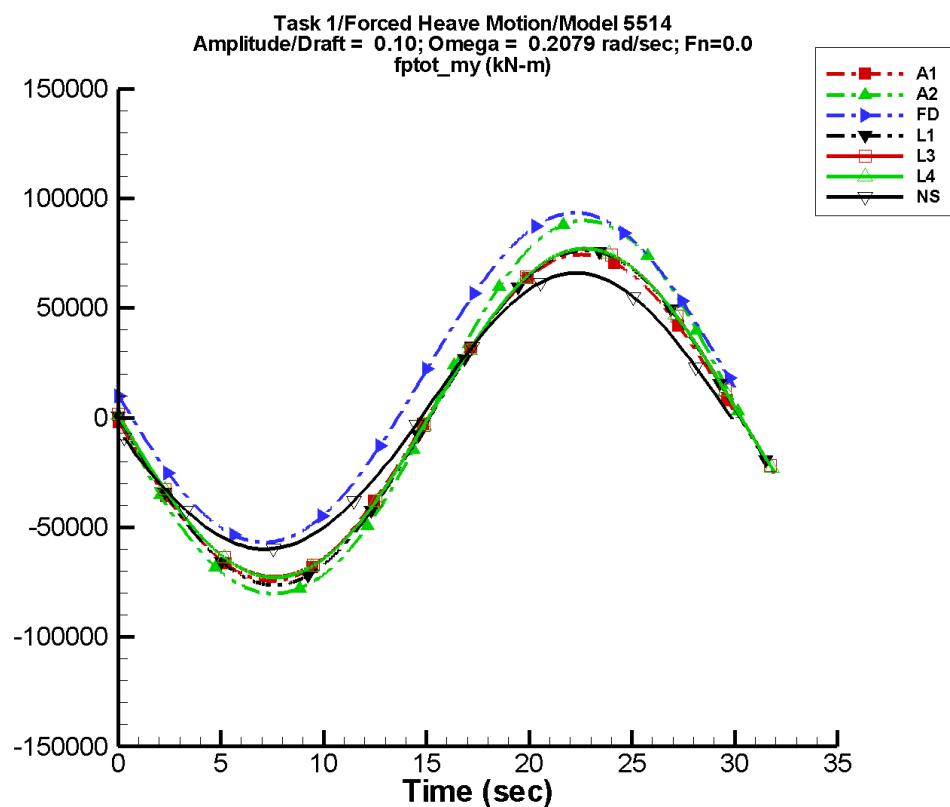
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-0.458	3.73E+04	-179	2.06	169
A2	1.25E+03	4.51E+04	-179	646.	-93
FD	1.70E+04	3.79E+04	-175	148.	-89
L1	4.30	3.82E+04	179	5.31	88
L3	942.	3.78E+04	179	155.	-91
L4	919.	3.78E+04	179	163.	-75
NF	—	—	—	—	—
NS	402.	3.20E+04	-175	516.	-87

Table B–182. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.73E+04	3.73E+04	-3.73E+04	3.72E+04
A2	-4.29E+04	4.67E+04	-4.30E+04	4.66E+04
FD	-2.07E+04	5.51E+04	-2.07E+04	5.52E+04
L1	-3.82E+04	3.82E+04	-3.82E+04	3.82E+04
L3	-3.67E+04	3.89E+04	-3.67E+04	3.89E+04
L4	-3.68E+04	3.89E+04	-3.68E+04	3.89E+04
NF	—	—	—	—
NS	-3.09E+04	3.28E+04	-3.06E+04	3.24E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-92. Time history 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 5514 scaled to  $L = 142$  m.

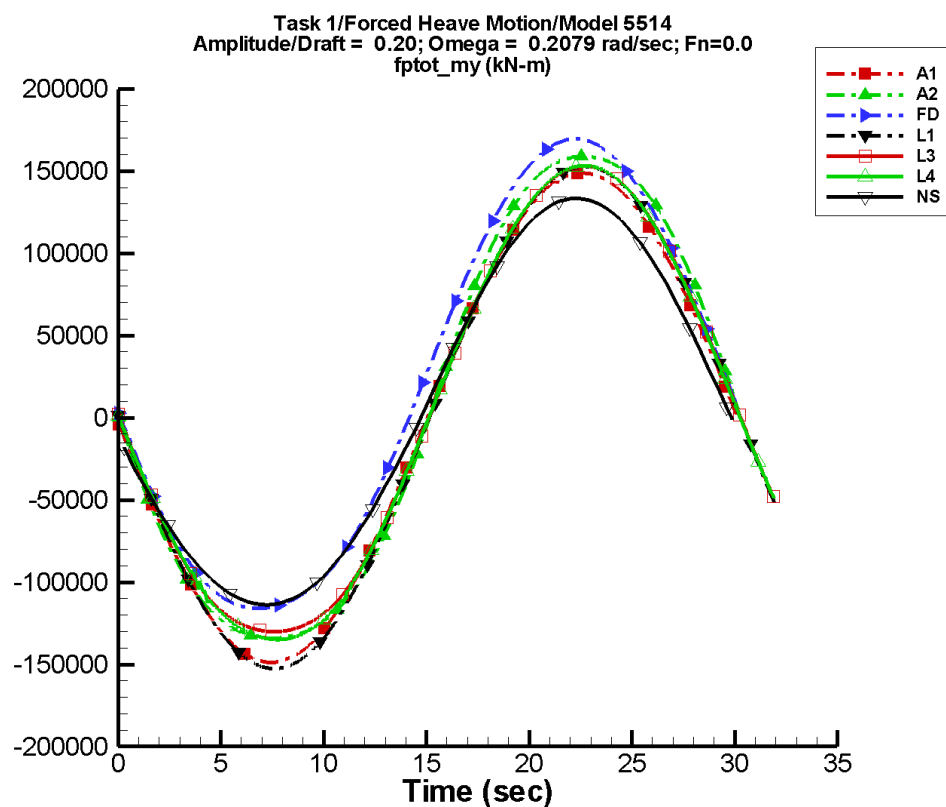
Table B–183. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-0.910	7.44E+04	-179	4.10	169
A2	2.83E+03	8.64E+04	180	2.32E+03	-95
FD	1.76E+04	7.54E+04	-175	751.	-88
L1	17.3	7.63E+04	179	19.4	87
L3	1.51E+03	7.51E+04	179	795.	-92
L4	1.40E+03	7.52E+04	179	776.	-78
NF	—	—	—	—	—
NS	1.66E+03	6.31E+04	-175	1.57E+03	-86

Table B–184. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.44E+04	7.44E+04	-7.45E+04	7.43E+04
A2	-8.02E+04	8.99E+04	-8.03E+04	8.98E+04
FD	-5.68E+04	9.35E+04	-5.67E+04	9.36E+04
L1	-7.63E+04	7.63E+04	-7.63E+04	7.63E+04
L3	-7.25E+04	7.71E+04	-7.25E+04	7.71E+04
L4	-7.29E+04	7.72E+04	-7.28E+04	7.71E+04
NF	—	—	—	—
NS	-6.00E+04	6.62E+04	-5.94E+04	6.55E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

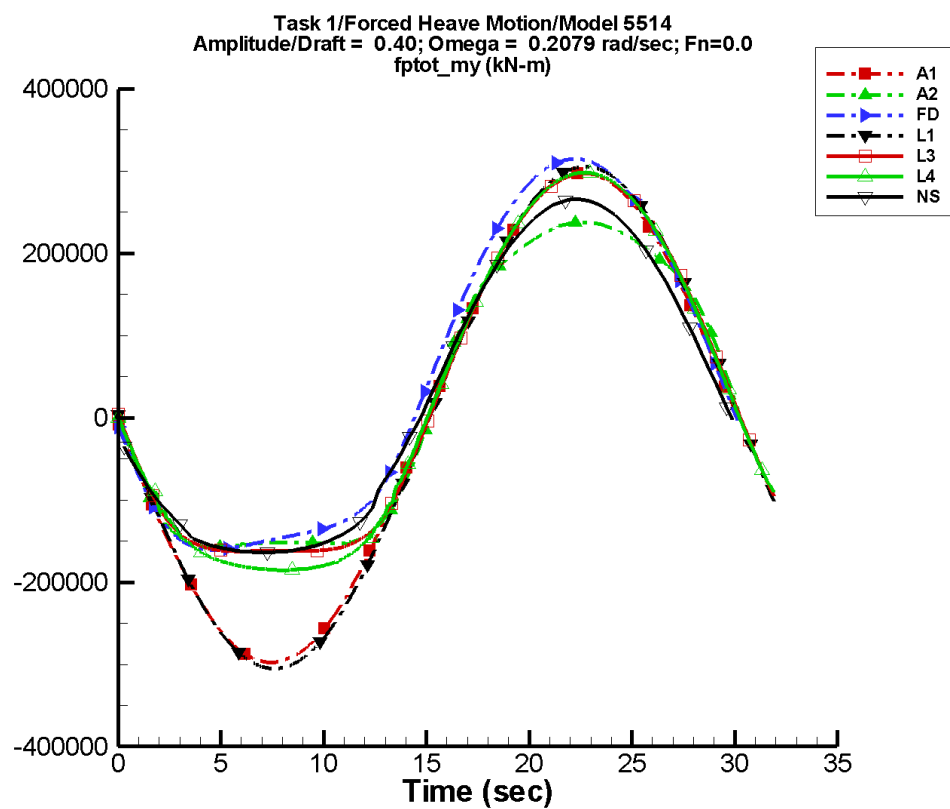
Table B–185. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.82	1.49E+05	-179	8.20	168
A2	6.99E+03	1.54E+05	180	6.86E+03	-97
FD	2.11E+04	1.45E+05	-175	5.35E+03	-88
L1	69.9	1.53E+05	179	74.2	86
L3	5.23E+03	1.45E+05	179	5.86E+03	-92
L4	4.42E+03	1.46E+05	179	4.64E+03	-82
NF	—	—	—	—	—
NS	5.50E+03	1.24E+05	-175	4.75E+03	-83

Table B–186. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
A2	-1.34E+05	1.59E+05	-1.35E+05	1.59E+05
FD	-1.16E+05	1.70E+05	-1.16E+05	1.70E+05
L1	-1.53E+05	1.53E+05	-1.53E+05	1.53E+05
L3	-1.30E+05	1.53E+05	-1.30E+05	1.53E+05
L4	-1.35E+05	1.53E+05	-1.35E+05	1.53E+05
NF	—	—	—	—
NS	-1.14E+05	1.34E+05	-1.13E+05	1.32E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-94. Time history of  $M_y^{ptot}$  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 5514 scaled to L = 142 m.

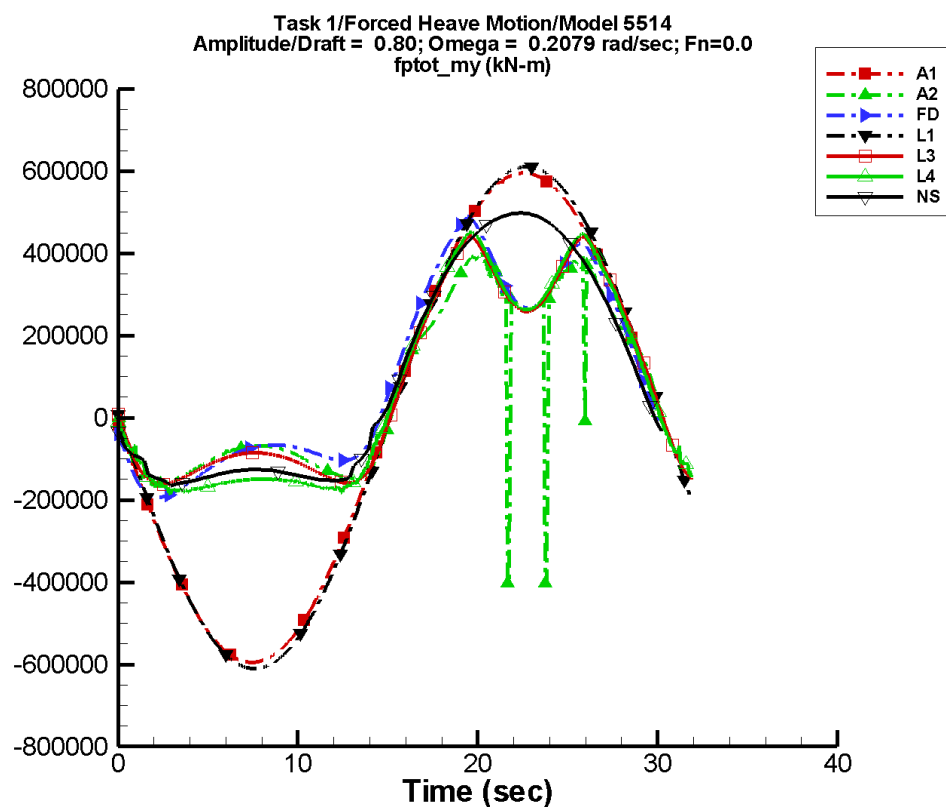
Table B–187. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.63	2.98E+05	-179	16.4	169
A2	2.03E+04	2.20E+05	-179	2.49E+04	-98
FD	4.64E+04	2.48E+05	-174	3.67E+04	-88
L1	281.	3.05E+05	179	290.	86
L3	3.12E+04	2.45E+05	180	3.85E+04	-92
L4	2.72E+04	2.54E+05	180	3.10E+04	-88
NF	—	—	—	—	—
NS	2.56E+04	2.24E+05	-175	2.48E+04	-81

Table B–188. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.98E+05	2.98E+05	-2.98E+05	2.97E+05
A2	-1.57E+05	2.38E+05	-1.57E+05	2.38E+05
FD	-1.61E+05	3.15E+05	-1.61E+05	3.15E+05
L1	-3.05E+05	3.05E+05	-3.05E+05	3.05E+05
L3	-1.62E+05	2.97E+05	-1.62E+05	2.97E+05
L4	-1.85E+05	2.98E+05	-1.85E+05	2.98E+05
NF	—	—	—	—
NS	-1.64E+05	2.66E+05	-1.63E+05	2.64E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-95. Time history of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

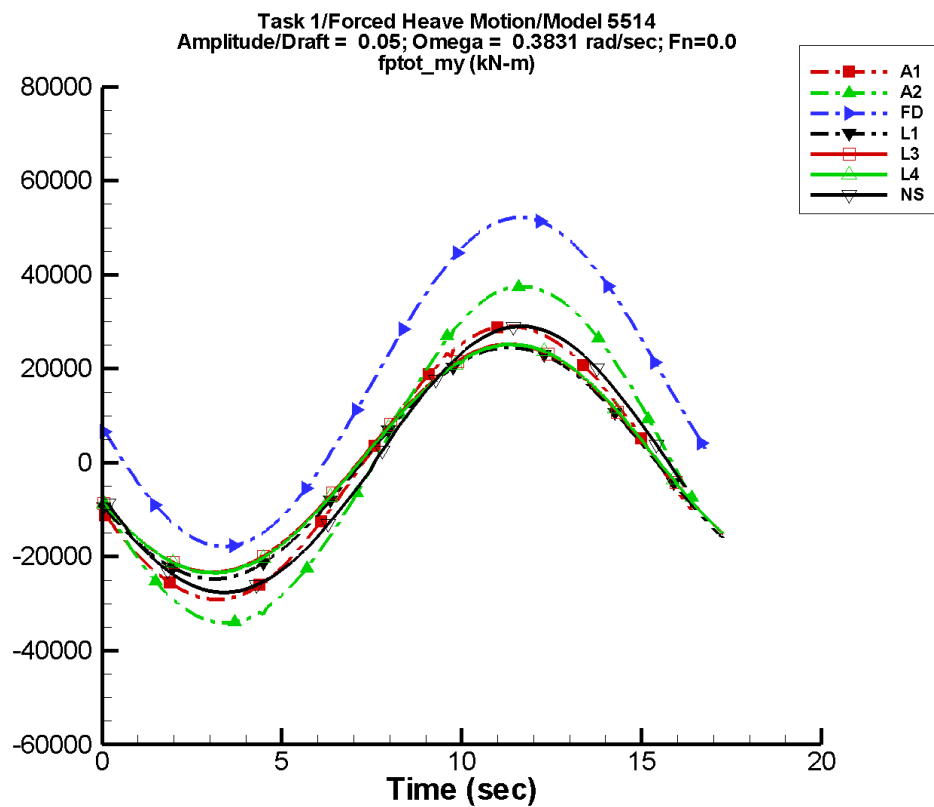
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-7.29	5.95E+05	-179	32.8	169
A2	6.39E+04	2.39E+05	-177	5.82E+04	-95
FD	9.60E+04	2.91E+05	-167	6.90E+04	-79
L1	1.13E+03	6.10E+05	179	1.15E+03	85
L3	8.34E+04	2.82E+05	-179	7.22E+04	-94
L4	7.23E+04	3.12E+05	-178	5.15E+04	-91
NF	—	—	—	—	—
NS	1.01E+05	3.42E+05	-175	9.00E+04	-81

Table B–190. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.95E+05	5.95E+05	-5.96E+05	5.95E+05
A2	-4.03E+05	4.05E+05	-1.63E+05	3.93E+05
FD	-1.94E+05	4.90E+05	-1.93E+05	4.82E+05
L1	-6.11E+05	6.11E+05	-6.10E+05	6.10E+05
L3	-1.62E+05	4.42E+05	-1.61E+05	4.39E+05
L4	-1.87E+05	4.51E+05	-1.79E+05	4.49E+05
NF	—	—	—	—
NS	-1.65E+05	4.98E+05	-1.59E+05	4.96E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-96. Time history of  $M_y^{ptot}$  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 5514 scaled to  $L = 142$  m.

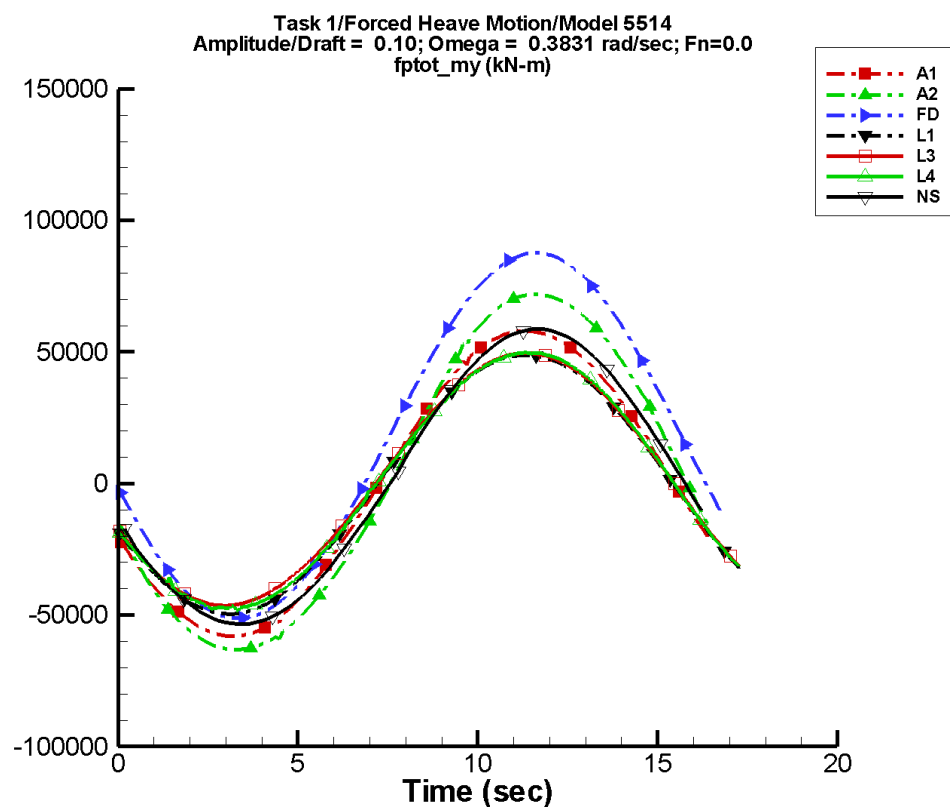
Table B–191. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-10.7	2.91E+04	-159	50.7	29
A2	1.24E+03	3.60E+04	-167	617.	-93
FD	1.70E+04	3.50E+04	-165	147.	-90
L1	-46.8	2.46E+04	-159	74.1	-179
L3	891.	2.43E+04	-158	180.	-117
L4	780.	2.43E+04	-159	244.	-124
NF	—	—	—	—	—
NS	314.	2.85E+04	-166	440.	-80

Table B–192. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.00E+04	2.90E+04	-2.90E+04	2.89E+04
A2	-3.50E+04	3.75E+04	-3.40E+04	3.73E+04
FD	-1.79E+04	5.22E+04	-1.77E+04	5.21E+04
L1	-2.47E+04	2.45E+04	-2.47E+04	2.45E+04
L3	-2.33E+04	2.52E+04	-2.33E+04	2.52E+04
L4	-2.35E+04	2.52E+04	-2.34E+04	2.51E+04
NF	—	—	—	—
NS	-2.76E+04	2.91E+04	-2.73E+04	2.88E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-97. Time history of  $M_y^{ptot}$  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 5514 scaled to L = 142 m.

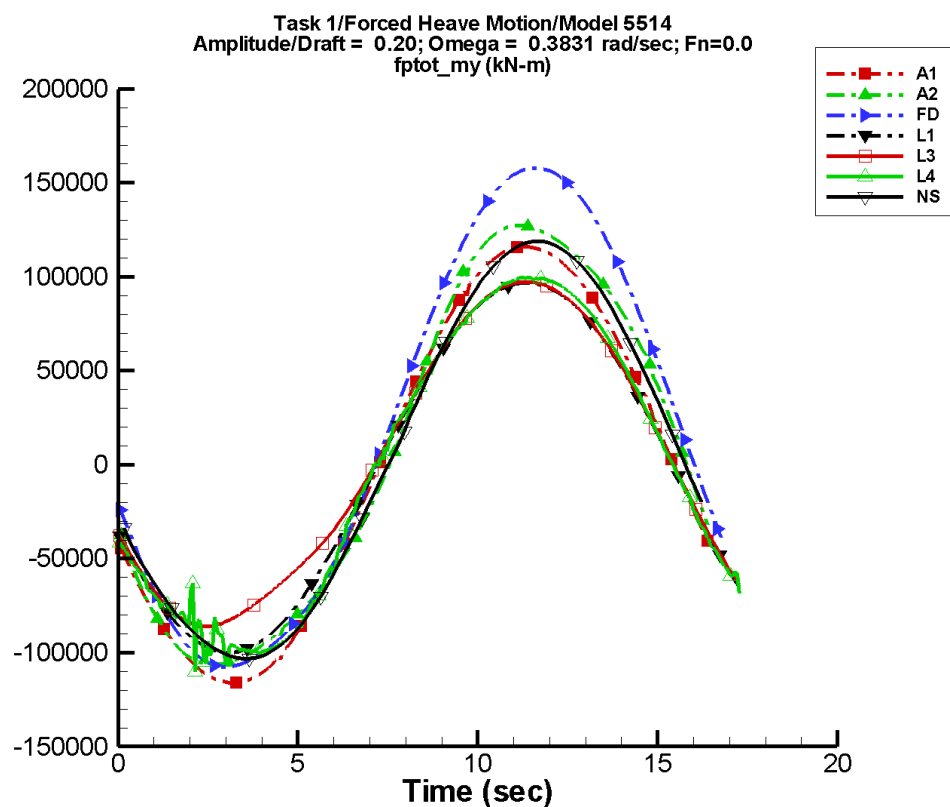
Table B–193. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-21.3	5.81E+04	-159	101.	29
A2	2.81E+03	6.84E+04	-166	2.27E+03	-95
FD	1.76E+04	6.95E+04	-165	737.	-89
L1	-196.	4.92E+04	-159	290.	179
L3	1.29E+03	4.80E+04	-158	840.	-115
L4	748.	4.88E+04	-159	759.	-117
NF	—	—	—	—	—
NS	1.43E+03	5.62E+04	-166	1.29E+03	-79

Table B–194. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.98E+04	5.80E+04	-5.79E+04	5.78E+04
A2	-6.50E+04	7.19E+04	-6.29E+04	7.17E+04
FD	-5.12E+04	8.76E+04	-5.09E+04	8.73E+04
L1	-4.96E+04	4.88E+04	-4.95E+04	4.87E+04
L3	-4.64E+04	4.95E+04	-4.63E+04	4.95E+04
L4	-4.83E+04	4.97E+04	-4.74E+04	4.96E+04
NF	—	—	—	—
NS	-5.35E+04	5.88E+04	-5.30E+04	5.82E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-98. Time history 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 5514 scaled to L = 142 m.

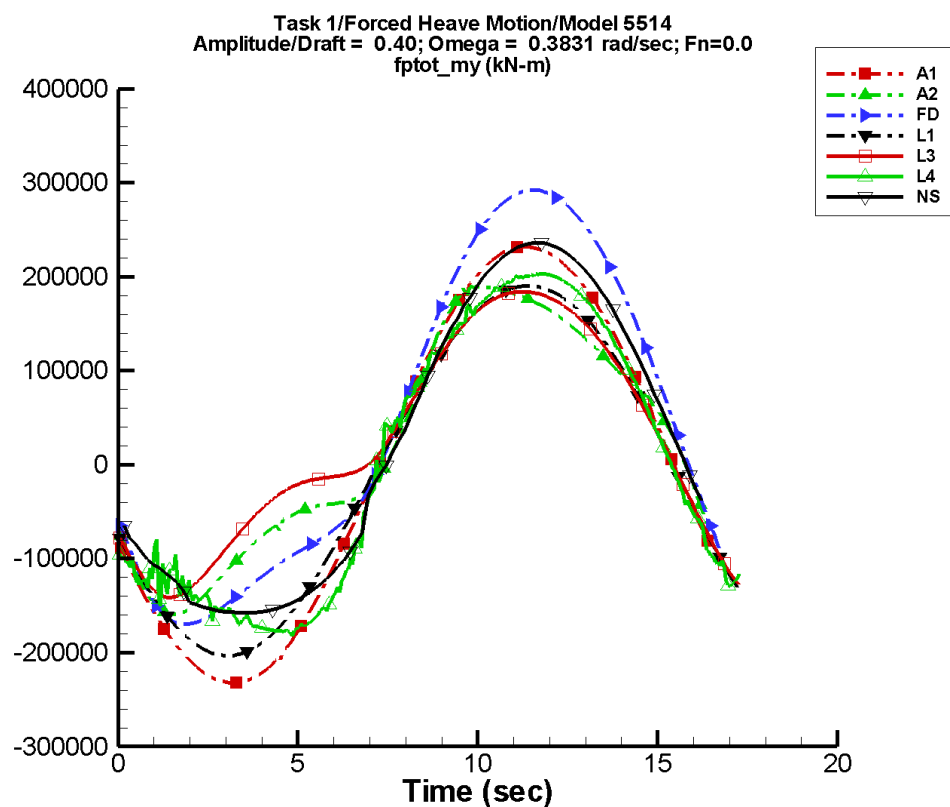
Table B–195. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-42.7	1.16E+05	-159	203.	29
A2	6.90E+03	1.19E+05	-163	6.75E+03	-100
FD	2.10E+04	1.34E+05	-164	5.21E+03	-88
L1	-805.	9.84E+04	-159	1.15E+03	178
L3	4.33E+03	9.12E+04	-157	5.60E+03	-108
L4	-664.	1.01E+05	-160	1.63E+03	8
NF	—	—	—	—	—
NS	4.67E+03	1.11E+05	-166	3.37E+03	-67

Table B–196. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.20E+05	1.16E+05	-1.16E+05	1.16E+05
A2	-1.33E+05	1.27E+05	-1.09E+05	1.27E+05
FD	-1.08E+05	1.58E+05	-1.07E+05	1.57E+05
L1	-1.00E+05	9.67E+04	-9.98E+04	9.66E+04
L3	-8.61E+04	9.73E+04	-8.59E+04	9.72E+04
L4	-1.10E+05	9.97E+04	-9.96E+04	9.93E+04
NF	—	—	—	—
NS	-1.03E+05	1.19E+05	-1.02E+05	1.18E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-99. Time history of  $M_y^{ptot}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

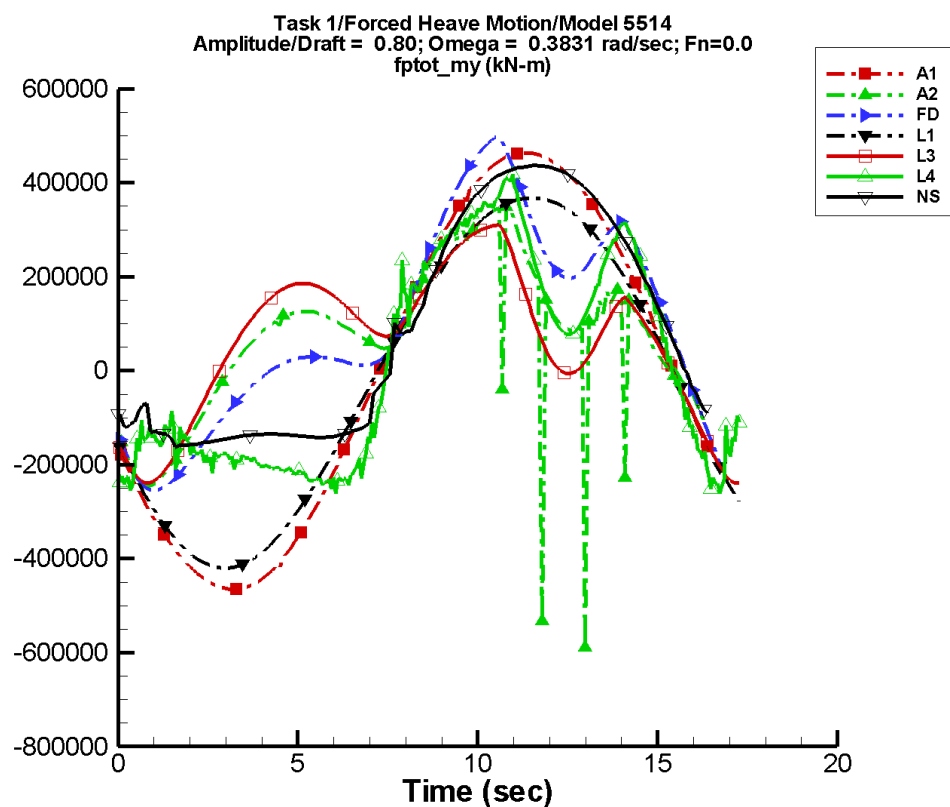
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-85.4	2.32E+05	-159	405.	29
A2	2.03E+04	1.59E+05	-152	2.48E+04	-99
FD	4.62E+04	2.27E+05	-161	3.57E+04	-88
L1	-3.26E+03	1.97E+05	-159	4.58E+03	177
L3	2.73E+04	1.45E+05	-149	3.65E+04	-103
L4	3.08E+03	1.95E+05	-162	2.07E+04	-23
NF	—	—	—	—	—
NS	2.04E+04	2.03E+05	-166	1.87E+04	-56

Table B–198. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.39E+05	2.32E+05	-2.32E+05	2.31E+05
A2	-1.59E+05	1.89E+05	-1.58E+05	1.88E+05
FD	-1.70E+05	2.92E+05	-1.69E+05	2.91E+05
L1	-2.03E+05	1.90E+05	-2.03E+05	1.90E+05
L3	-1.41E+05	1.84E+05	-1.41E+05	1.84E+05
L4	-1.82E+05	2.03E+05	-1.77E+05	2.03E+05
NF	—	—	—	—
NS	-1.58E+05	2.36E+05	-1.57E+05	2.34E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-100. Time history of  $M_y^{ptot}$  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 5514 scaled to  $L = 142$  m.

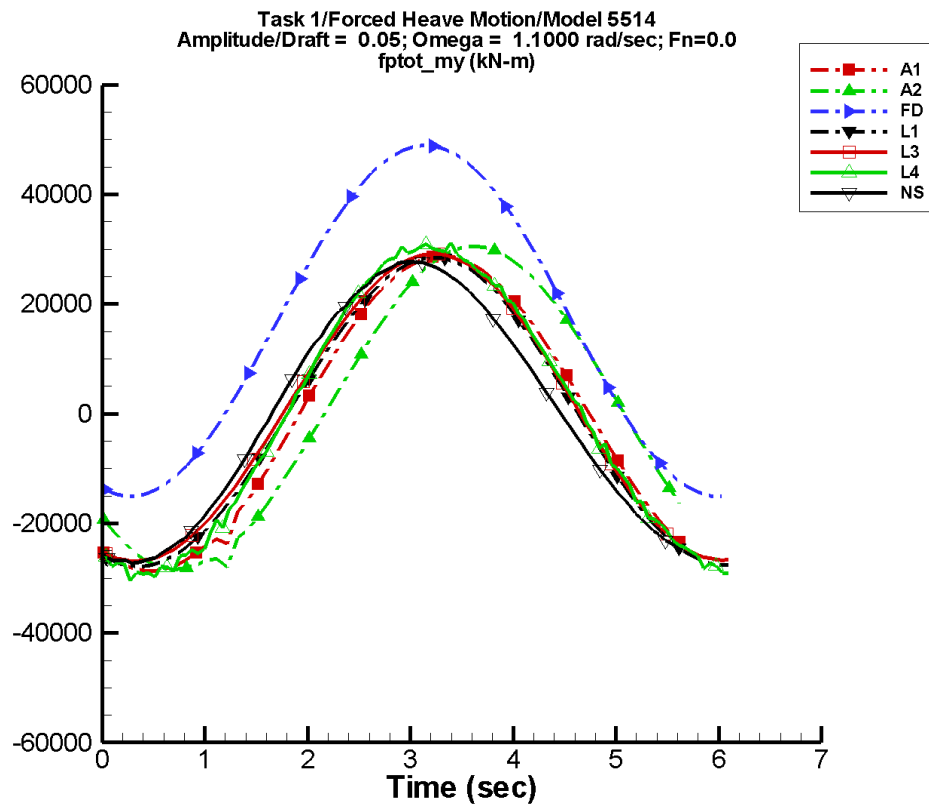
Table B–199. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-171.	4.64E+05	-159	811.	29
A2	6.11E+04	1.76E+05	-115	5.74E+04	-99
FD	9.60E+04	2.66E+05	-144	5.87E+04	-84
L1	-1.31E+04	3.93E+05	-159	1.83E+04	177
L3	6.68E+04	1.68E+05	-105	6.79E+04	-115
L4	1.31E+04	2.77E+05	-159	5.51E+04	1
NF	—	—	—	—	—
NS	8.39E+04	3.12E+05	-166	7.24E+04	-60

Table B–200. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.79E+05	4.64E+05	-4.64E+05	4.62E+05
A2	-5.89E+05	3.50E+05	-2.36E+05	3.11E+05
FD	-2.55E+05	4.97E+05	-2.51E+05	4.83E+05
L1	-4.20E+05	3.68E+05	-4.20E+05	3.67E+05
L3	-2.39E+05	3.10E+05	-2.36E+05	3.08E+05
L4	-2.60E+05	4.18E+05	-2.39E+05	3.98E+05
NF	—	—	—	—
NS	-1.63E+05	4.37E+05	-1.57E+05	4.35E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

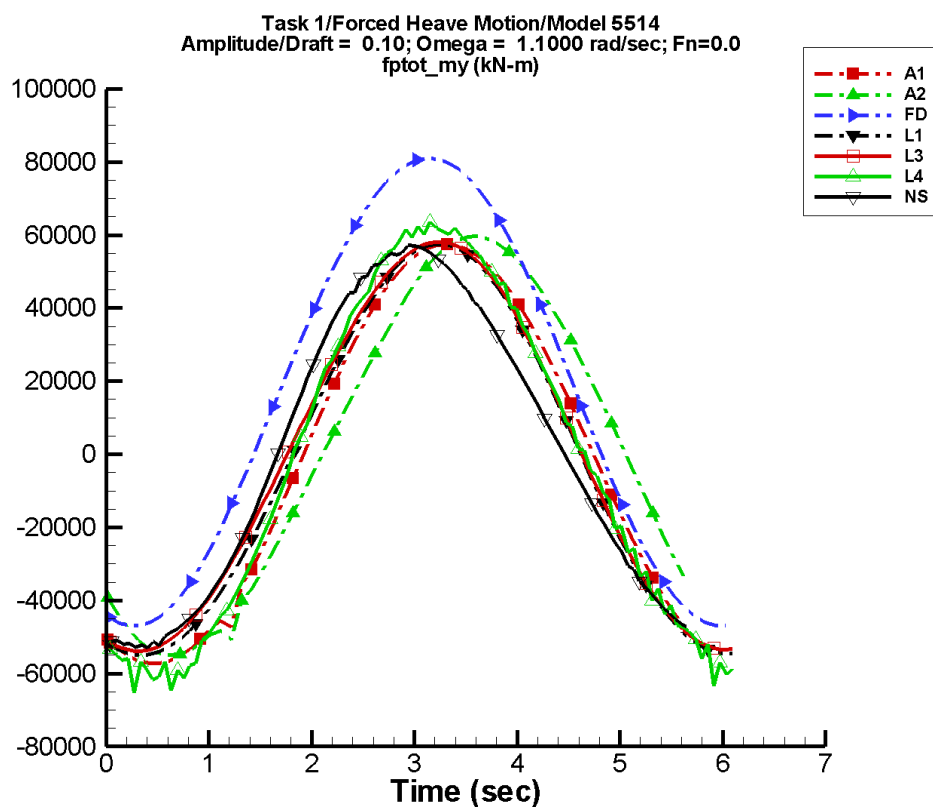
Table B–201. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-364.	2.89E+04	-120	616.	80
A2	880.	2.96E+04	-139	57.1	180
FD	1.70E+04	3.20E+04	-108	149.	-90
L1	-43.4	2.81E+04	-113	443.	23
L3	894.	2.80E+04	-112	389.	2
L4	650.	2.97E+04	-114	933.	118
NF	—	—	—	—	—
NS	-153.	2.71E+04	-103	986.	127

Table B–202. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	2.88E+04	-2.78E+04	2.79E+04
A2	-3.25E+04	3.05E+04	-2.79E+04	2.96E+04
FD	-1.51E+04	4.89E+04	-1.51E+04	4.84E+04
L1	-2.78E+04	2.85E+04	-2.75E+04	2.81E+04
L3	-2.69E+04	2.91E+04	-2.65E+04	2.88E+04
L4	-3.05E+04	3.12E+04	-2.88E+04	3.02E+04
NF	—	—	—	—
NS	-2.73E+04	2.78E+04	-2.68E+04	2.74E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

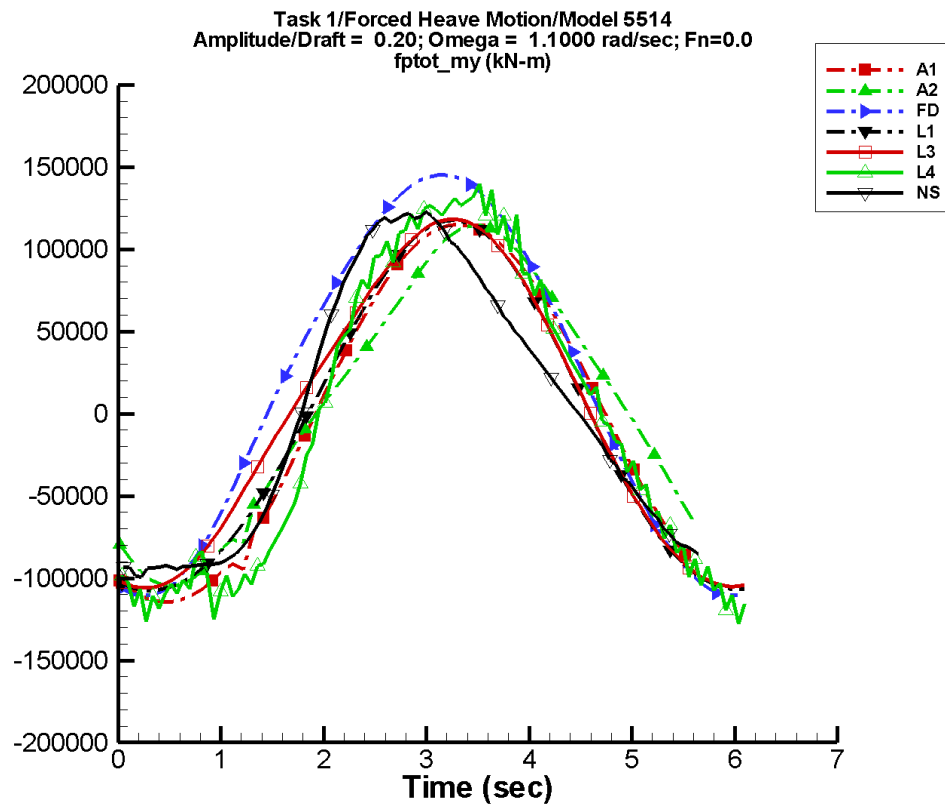
Table B–203. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-727.	5.78E+04	-120	1.23E+03	80
A2	2.10E+03	5.67E+04	-136	1.05E+03	-111
FD	1.76E+04	6.38E+04	-107	772.	-90
L1	-179.	5.61E+04	-113	1.67E+03	23
L3	1.31E+03	5.57E+04	-112	1.44E+03	-6
L4	-74.3	6.10E+04	-115	3.19E+03	112
NF	—	—	—	—	—
NS	128.	5.39E+04	-103	4.49E+03	128

Table B–204. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.37E+04	5.75E+04	-5.55E+04	5.57E+04
A2	-6.30E+04	5.96E+04	-5.35E+04	5.76E+04
FD	-4.69E+04	8.10E+04	-4.70E+04	7.99E+04
L1	-5.49E+04	5.75E+04	-5.43E+04	5.68E+04
L3	-5.38E+04	5.81E+04	-5.32E+04	5.75E+04
L4	-6.52E+04	6.35E+04	-6.05E+04	6.14E+04
NF	—	—	—	—
NS	-5.31E+04	5.74E+04	-5.20E+04	5.59E+04

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

Figure B-103. Time history of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

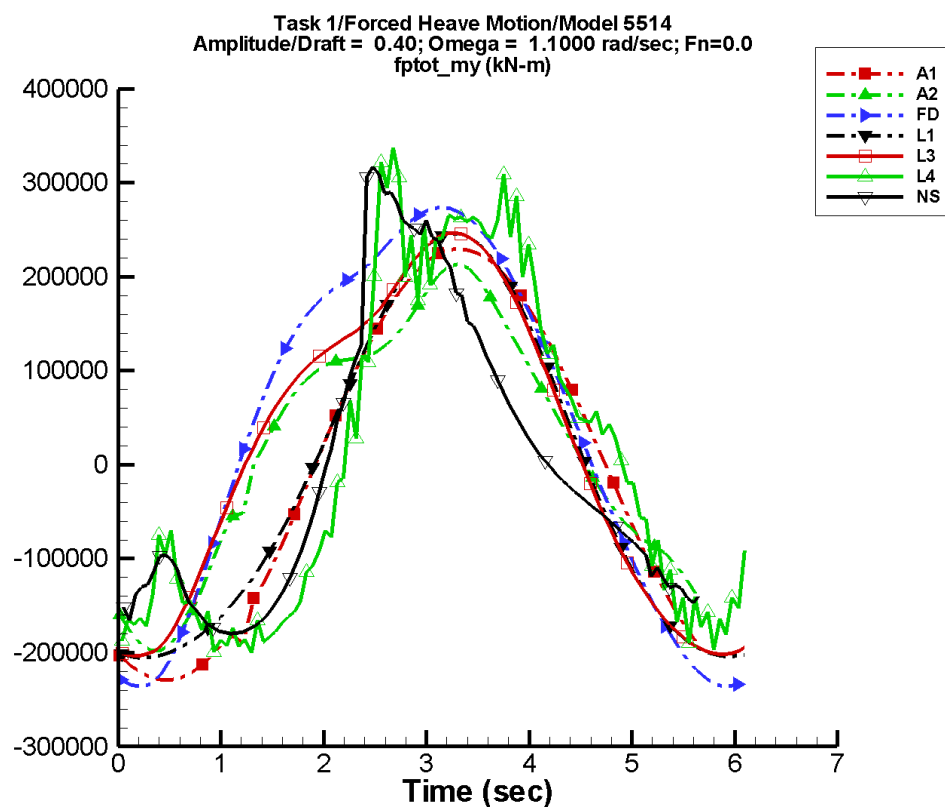
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.45E+03	1.16E+05	-120	2.46E+03	80
A2	5.50E+03	1.03E+05	-128	4.15E+03	-113
FD	2.10E+04	1.26E+05	-105	5.57E+03	-89
L1	-726.	1.12E+05	-113	6.51E+03	24
L3	4.41E+03	1.10E+05	-109	6.14E+03	-32
L4	-147.	1.25E+05	-120	1.53E+04	72
NF	—	—	—	—	—
NS	270.	1.08E+05	-105	2.21E+04	118

Table B–206. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.27E+05	1.15E+05	-1.11E+05	1.11E+05
A2	-1.18E+05	1.14E+05	-9.93E+04	1.09E+05
FD	-1.11E+05	1.45E+05	-1.11E+05	1.43E+05
L1	-1.07E+05	1.18E+05	-1.06E+05	1.16E+05
L3	-1.06E+05	1.18E+05	-1.05E+05	1.17E+05
L4	-1.28E+05	1.40E+05	-1.13E+05	1.29E+05
NF	—	—	—	—
NS	-9.93E+04	1.25E+05	-9.48E+04	1.22E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-104. Time history of  $M_y^{ptot}$  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 5514 scaled to L = 142 m.

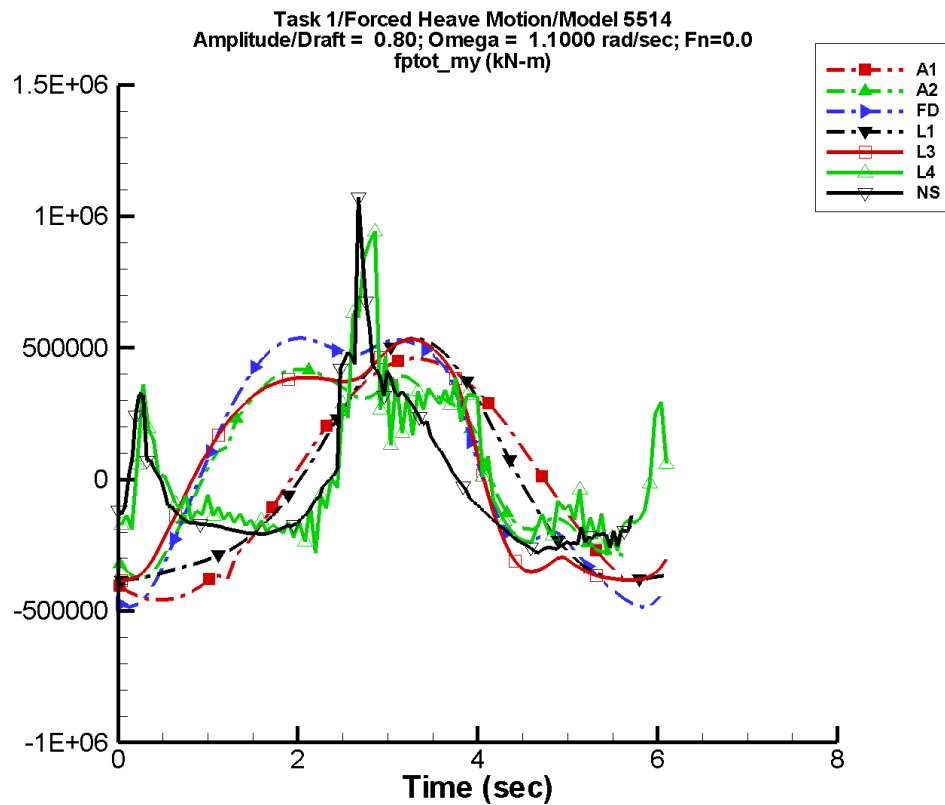
Table B–207. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-2.91E+03	2.31E+05	-120	4.92E+03	80
A2	1.73E+04	1.79E+05	-102	1.88E+04	-111
FD	4.63E+04	2.45E+05	-95	3.83E+04	-89
L1	-2.93E+03	2.24E+05	-113	2.56E+04	24
L3	2.75E+04	2.12E+05	-97	3.40E+04	-57
L4	1.67E+04	2.34E+05	-127	6.63E+04	51
NF	—	—	—	—	—
NS	-1.01E+04	1.86E+05	-108	8.26E+04	91

Table B–208. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.55E+05	2.30E+05	-2.22E+05	2.23E+05
A2	-1.99E+05	2.14E+05	-1.81E+05	1.94E+05
FD	-2.37E+05	2.74E+05	-2.37E+05	2.68E+05
L1	-2.05E+05	2.46E+05	-2.06E+05	2.42E+05
L3	-2.03E+05	2.47E+05	-2.05E+05	2.43E+05
L4	-2.00E+05	3.37E+05	-1.88E+05	2.64E+05
NF	—	—	—	—
NS	-1.80E+05	3.17E+05	-1.77E+05	2.80E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

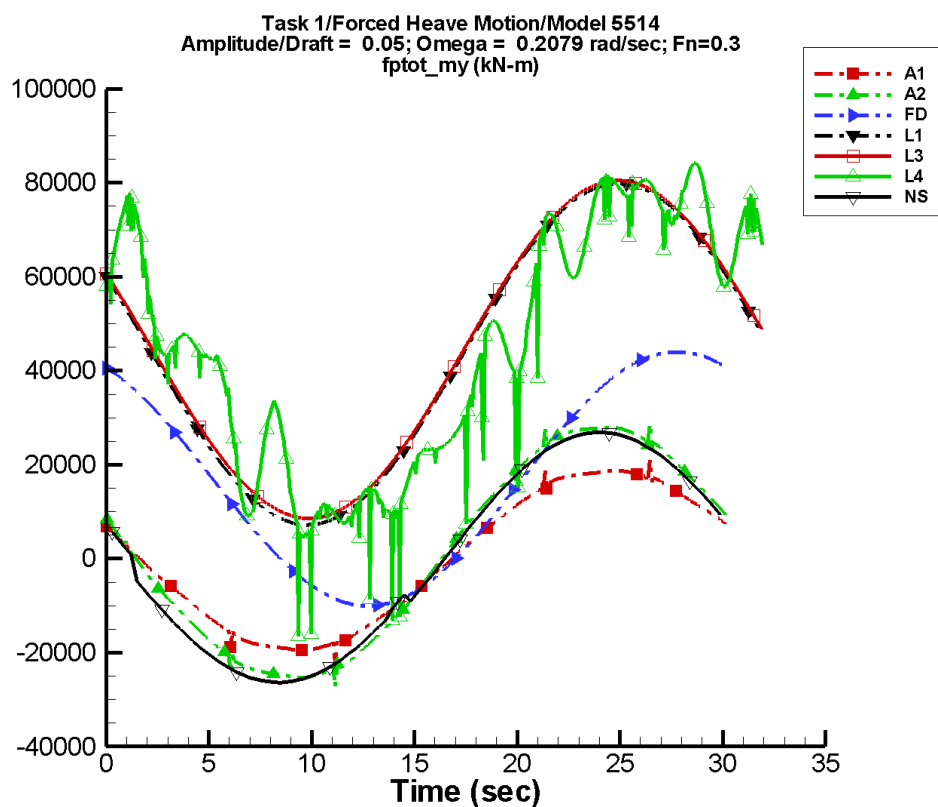
Table B–209. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-5.81E+03	4.62E+05	-120	9.84E+03	80
A2	6.98E+04	3.84E+05	-75	6.28E+04	-107
FD	9.38E+04	5.16E+05	-72	7.73E+04	-89
L1	-1.17E+04	4.48E+05	-113	1.02E+05	24
L3	6.69E+04	4.60E+05	-71	9.10E+04	-25
L4	2.88E+04	2.53E+05	-107	2.49E+05	49
NF	—	—	—	—	—
NS	-4.20E+04	2.07E+05	-88	2.29E+05	69

Table B–210. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.10E+05	4.60E+05	-4.44E+05	4.46E+05
A2	-3.76E+05	4.20E+05	-3.48E+05	3.96E+05
FD	-4.85E+05	5.38E+05	-4.78E+05	5.21E+05
L1	-3.85E+05	5.35E+05	-3.88E+05	5.26E+05
L3	-3.84E+05	5.32E+05	-3.86E+05	5.22E+05
L4	-2.88E+05	1.13E+06	-2.12E+05	7.69E+05
NF	—	—	—	—
NS	-3.04E+05	1.07E+06	-2.90E+05	6.34E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

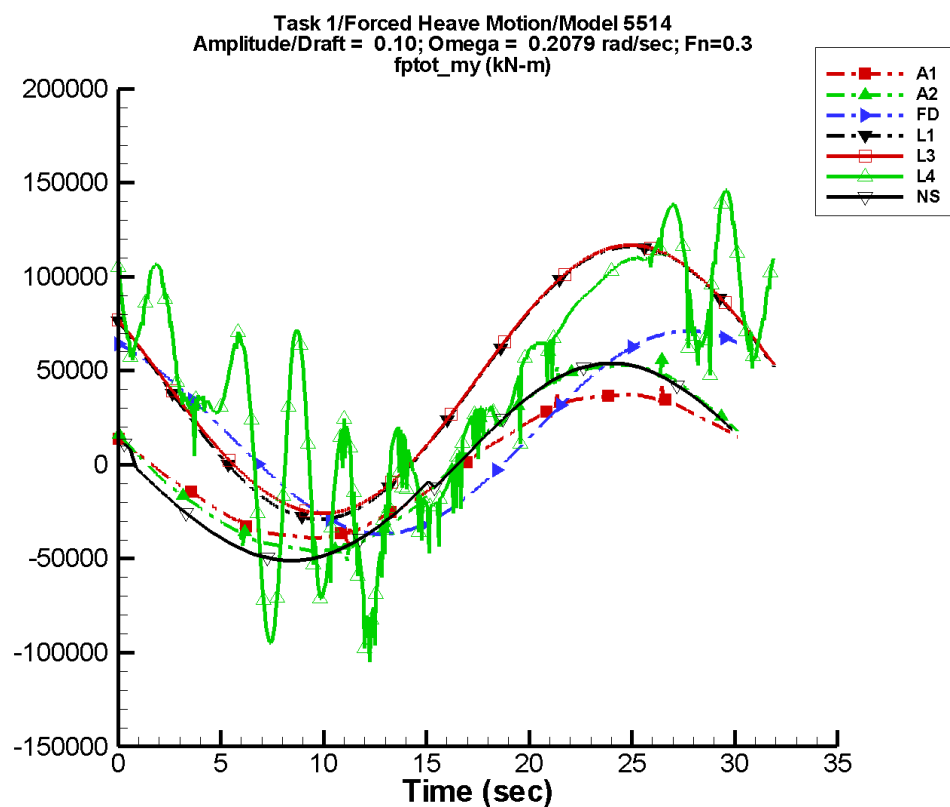
Table B–211. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-101.	1.91E+04	159	221.	32
A2	1.14E+03	2.68E+04	163	540.	-76
FD	1.70E+04	2.70E+04	118	148.	-89
L1	4.35E+04	3.63E+04	153	24.6	117
L3	4.44E+04	3.60E+04	153	140.	-96
L4	4.39E+04	3.51E+04	132	360.	-55
NF	—	—	—	—	—
NS	-230.	2.65E+04	166	1.15E+03	174

Table B–212. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.19E+04	2.10E+04	-1.95E+04	1.87E+04
A2	-2.72E+04	2.87E+04	-2.53E+04	2.78E+04
FD	-1.01E+04	4.40E+04	-1.00E+04	4.40E+04
L1	7.18E+03	7.98E+04	7.21E+03	7.98E+04
L3	8.58E+03	8.05E+04	8.60E+03	8.05E+04
L4	-1.66E+04	8.43E+04	3.11E+03	8.37E+04
NF	—	—	—	—
NS	-2.64E+04	2.69E+04	-2.61E+04	2.66E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-107. Time history 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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

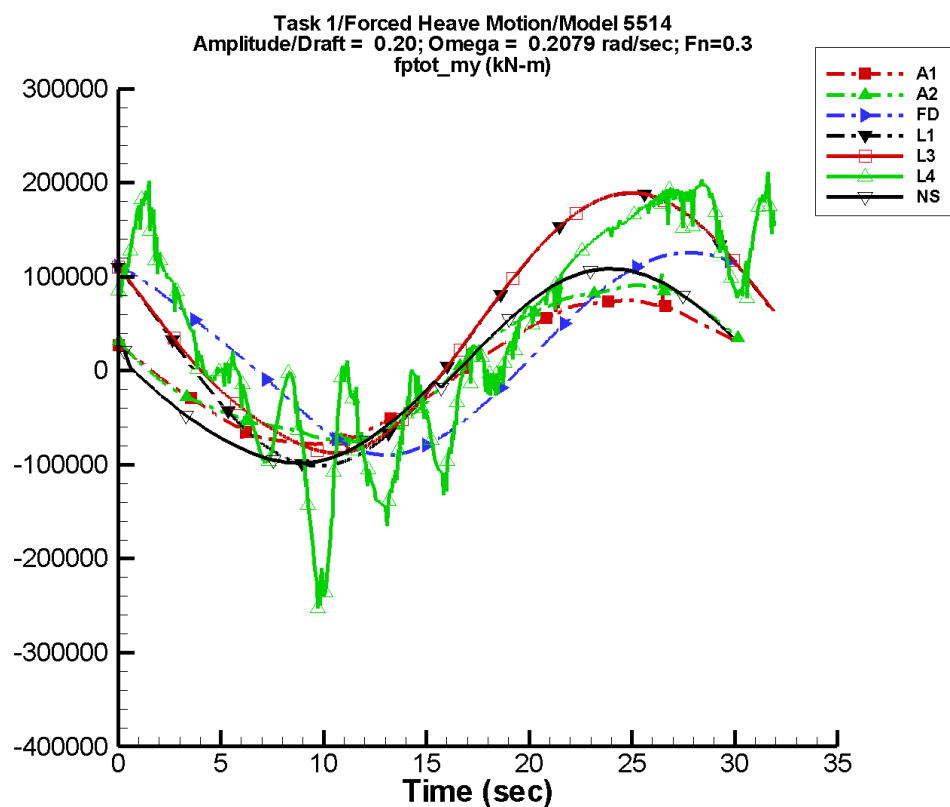
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-202.	3.81E+04	159	441.	32
A2	2.63E+03	5.01E+04	162	2.09E+03	-85
FD	1.76E+04	5.38E+04	118	751.	-88
L1	4.36E+04	7.25E+04	153	96.9	117
L3	4.51E+04	7.13E+04	153	730.	-95
L4	4.12E+04	7.21E+04	130	1.81E+03	-79
NF	—	—	—	—	—
NS	136.	5.20E+04	167	2.34E+03	-174

Table B–214. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.37E+04	4.18E+04	-3.89E+04	3.74E+04
A2	-5.13E+04	5.57E+04	-4.58E+04	5.28E+04
FD	-3.69E+04	7.12E+04	-3.68E+04	7.11E+04
L1	-2.89E+04	1.16E+05	-2.89E+04	1.16E+05
L3	-2.59E+04	1.17E+05	-2.59E+04	1.17E+05
L4	-1.12E+05	1.46E+05	-9.50E+04	1.43E+05
NF	—	—	—	—
NS	-5.11E+04	5.39E+04	-5.06E+04	5.34E+04



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

Figure B-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 5514 scaled to  $L = 142$  m.

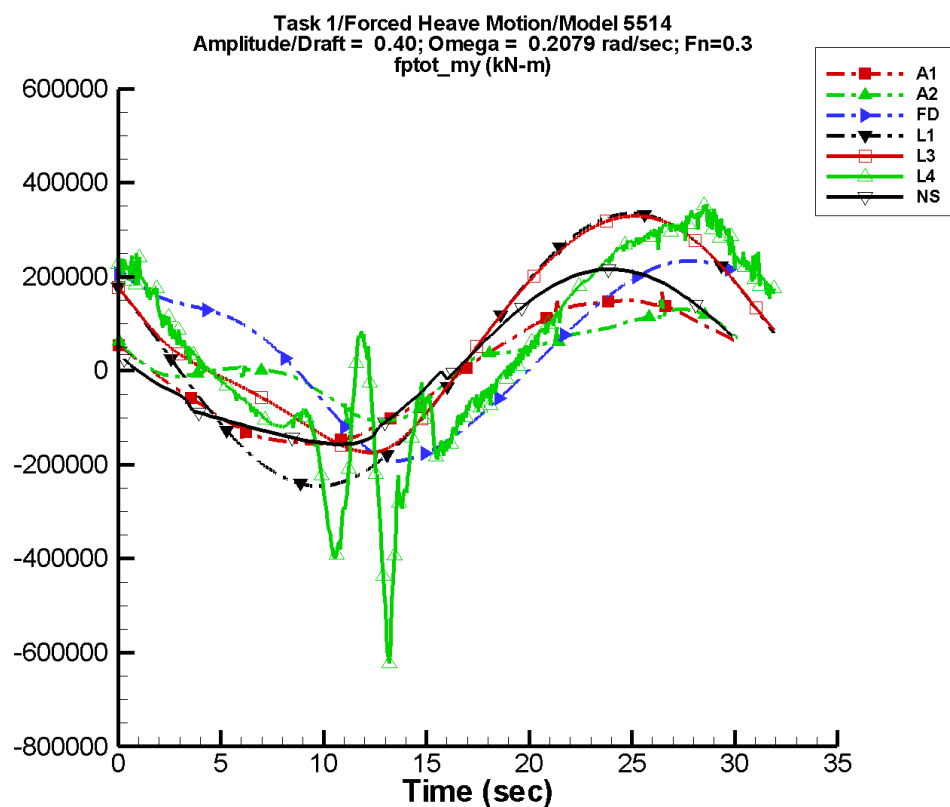
Table B–215. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-405.	7.63E+04	159	882.	32
A2	6.59E+03	8.23E+04	159	6.34E+03	-91
FD	2.11E+04	1.05E+05	115	5.35E+03	-88
L1	4.38E+04	1.45E+05	153	387.	116
L3	4.90E+04	1.38E+05	152	5.59E+03	-94
L4	3.71E+04	1.44E+05	132	1.14E+04	95
NF	—	—	—	—	—
NS	1.62E+03	1.02E+05	166	4.17E+03	-150

Table B–216. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.75E+04	8.37E+04	-7.78E+04	7.47E+04
A2	-8.99E+04	1.03E+05	-7.59E+04	9.07E+04
FD	-8.96E+04	1.26E+05	-8.95E+04	1.26E+05
L1	-1.01E+05	1.89E+05	-1.01E+05	1.89E+05
L3	-8.75E+04	1.89E+05	-8.74E+04	1.89E+05
L4	-2.56E+05	2.11E+05	-2.40E+05	1.98E+05
NF	—	—	—	—
NS	-9.83E+04	1.08E+05	-9.74E+04	1.07E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

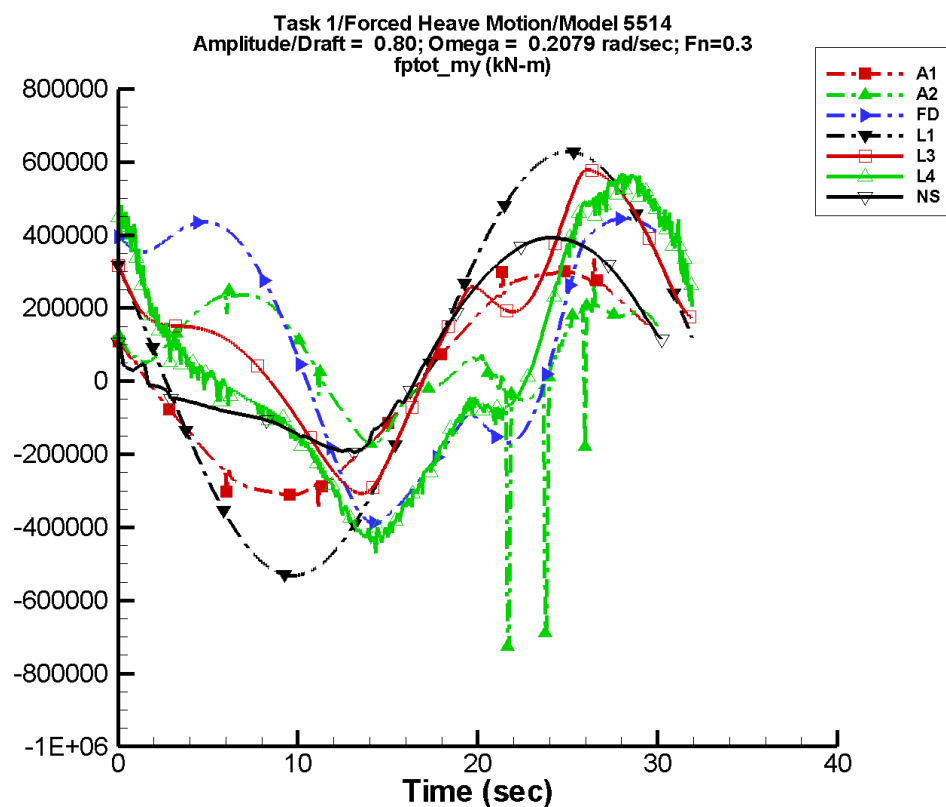
Table B–217. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-809.	1.53E+05	159	1.76E+03	32
A2	1.95E+04	8.59E+04	139	2.38E+04	-95
FD	4.64E+04	1.94E+05	104	3.67E+04	-88
L1	4.48E+04	2.90E+05	153	1.55E+03	116
L3	7.57E+04	2.37E+05	147	3.74E+04	-93
L4	3.80E+04	2.53E+05	128	2.25E+04	173
NF	—	—	—	—	—
NS	1.71E+04	1.82E+05	164	1.54E+04	-100

Table B–218. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.75E+05	1.67E+05	-1.56E+05	1.49E+05
A2	-1.12E+05	1.51E+05	-1.07E+05	1.30E+05
FD	-1.92E+05	2.34E+05	-1.91E+05	2.34E+05
L1	-2.45E+05	3.35E+05	-2.45E+05	3.34E+05
L3	-1.74E+05	3.29E+05	-1.74E+05	3.29E+05
L4	-6.23E+05	3.54E+05	-5.40E+05	3.36E+05
NF	—	—	—	—
NS	-1.56E+05	2.16E+05	-1.55E+05	2.14E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

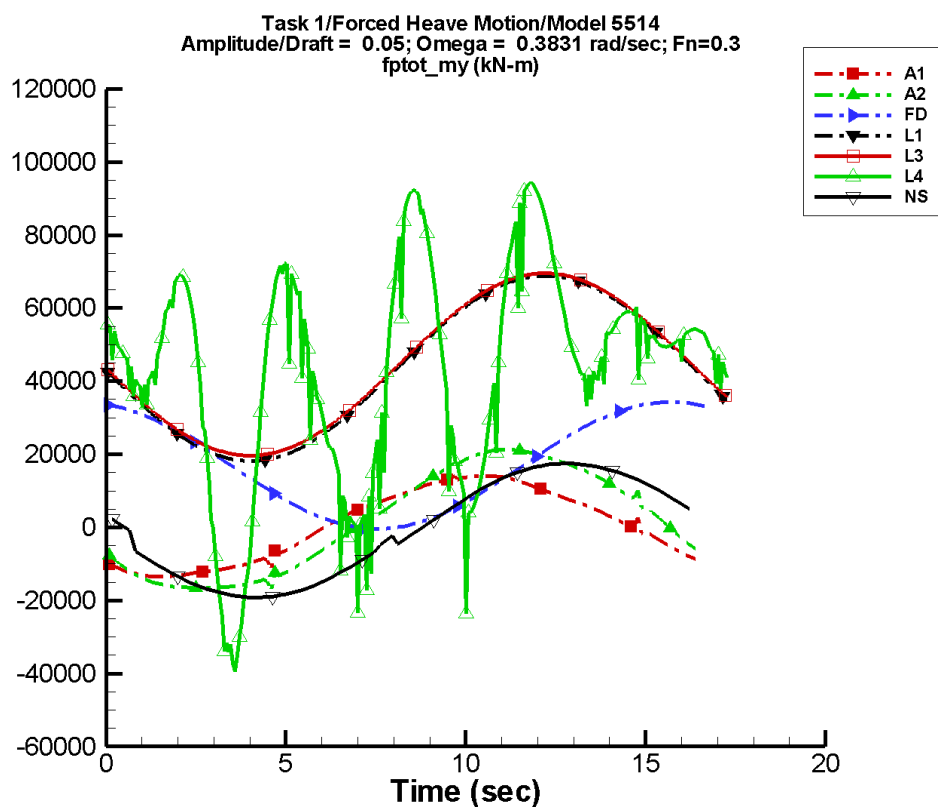
Table B–219. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.62E+03	3.05E+05	159	3.53E+03	32
A2	6.23E+04	1.26E+05	55	5.62E+04	-92
FD	9.60E+04	3.84E+05	73	6.90E+04	-79
L1	4.88E+04	5.80E+05	153	6.19E+03	116
L3	1.31E+05	3.14E+05	127	6.80E+04	-96
L4	2.39E+04	3.87E+05	108	8.91E+04	177
NF	—	—	—	—	—
NS	7.09E+04	2.68E+05	158	6.80E+04	-97

Table B–220. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.50E+05	3.35E+05	-3.11E+05	2.99E+05
A2	-7.27E+05	2.76E+05	-2.09E+05	2.59E+05
FD	-3.88E+05	4.46E+05	-3.85E+05	4.45E+05
L1	-5.32E+05	6.28E+05	-5.32E+05	6.28E+05
L3	-3.07E+05	5.80E+05	-3.07E+05	5.78E+05
L4	-4.70E+05	5.69E+05	-4.32E+05	5.56E+05
NF	—	—	—	—
NS	-1.97E+05	3.93E+05	-1.90E+05	3.91E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-111. Time history 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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

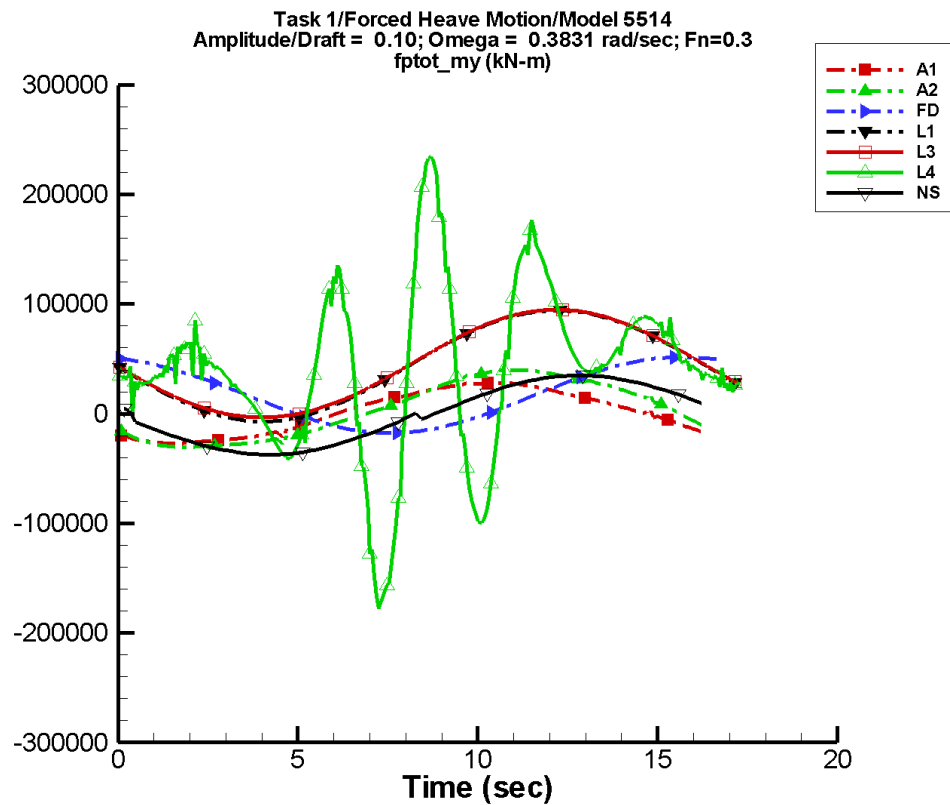
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	457.	1.33E+04	-138	121.	155
A2	1.70E+03	1.90E+04	-158	619.	-108
FD	1.70E+04	1.73E+04	105	147.	-90
L1	4.36E+04	2.53E+04	-178	77.7	66
L3	4.45E+04	2.50E+04	-178	91.2	-75
L4	4.34E+04	1.64E+04	161	3.01E+03	71
NF	—	—	—	—	—
NS	-577.	1.84E+04	172	1.39E+03	158

Table B–222. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.44E+04	1.41E+04	-1.34E+04	1.40E+04
A2	-1.96E+04	2.12E+04	-1.69E+04	2.11E+04
FD	-407.	3.42E+04	-342.	3.42E+04
L1	1.81E+04	6.88E+04	1.82E+04	6.88E+04
L3	1.96E+04	6.95E+04	1.97E+04	6.95E+04
L4	-3.94E+04	9.45E+04	-3.38E+04	9.19E+04
NF	—	—	—	—
NS	-1.92E+04	1.78E+04	-1.90E+04	1.76E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	912.	2.67E+04	-138	242.	155
A2	3.75E+03	3.48E+04	-155	2.26E+03	-103
FD	1.76E+04	3.45E+04	104	737.	-89
L1	4.38E+04	5.06E+04	-178	310.	66
L3	4.52E+04	4.94E+04	-178	491.	-82
L4	4.11E+04	3.25E+04	157	1.02E+04	-38
NF	—	—	—	—	—
NS	-776.	3.60E+04	173	2.65E+03	164

Table B–224. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.88E+04	2.81E+04	-2.68E+04	2.79E+04
A2	-3.40E+04	4.00E+04	-3.02E+04	3.98E+04
FD	-1.77E+04	5.16E+04	-1.75E+04	5.15E+04
L1	-7.12E+03	9.41E+04	-7.06E+03	9.40E+04
L3	-3.33E+03	9.49E+04	-3.27E+03	9.48E+04
L4	-1.78E+05	2.34E+05	-1.62E+05	2.22E+05
NF	—	—	—	—
NS	-3.73E+04	3.55E+04	-3.69E+04	3.52E+04

# TASK 1/HEAVE MOTION/MODEL 5514

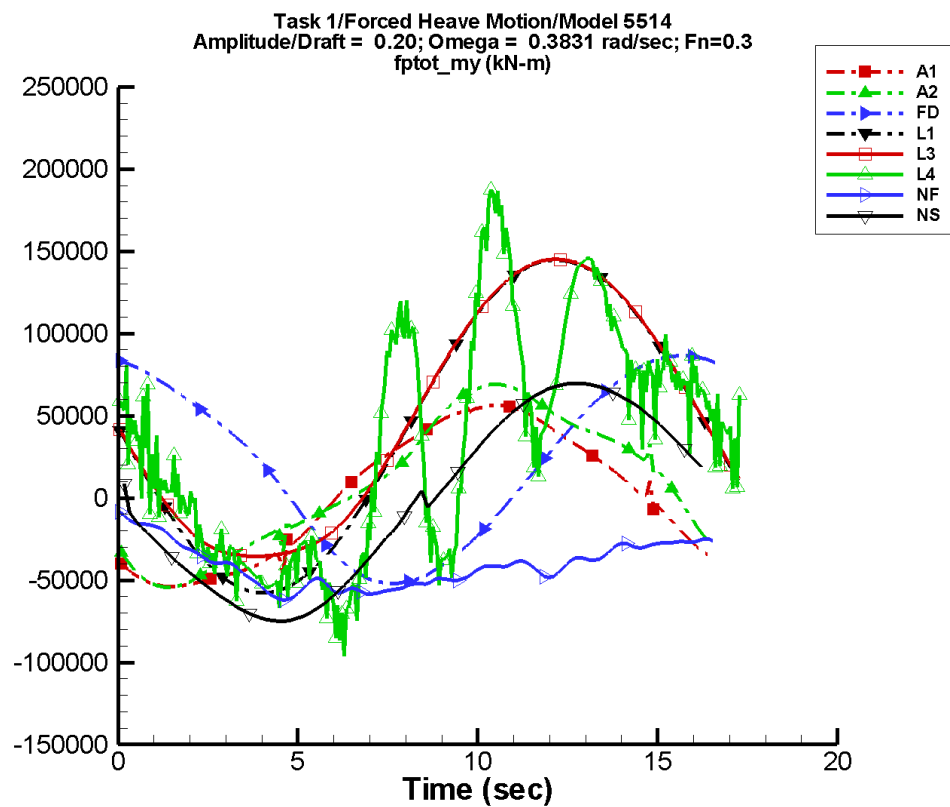


Figure B-113. Time history of  $M_y^{ptot}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	1.82E+03	5.33E+04	-138	483.	155
A2	8.77E+03	5.41E+04	-146	6.78E+03	-105
FD	2.10E+04	6.77E+04	99	5.21E+03	-88
L1	4.45E+04	1.01E+05	-178	1.24E+03	66
L3	4.97E+04	9.34E+04	-178	4.25E+03	-91
L4	3.44E+04	7.92E+04	173	8.58E+03	70
NF	-2.73E+04	9.64E+03	175	3.80E+03	55
NS	-1.25E+03	7.10E+04	172	3.52E+03	161

Table B–226. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.76E+04	5.63E+04	-5.37E+04	5.59E+04
A2	-7.04E+04	6.91E+04	-5.39E+04	6.85E+04
FD	-5.21E+04	8.65E+04	-5.18E+04	8.62E+04
L1	-5.78E+04	1.45E+05	-5.76E+04	1.45E+05
L3	-3.55E+04	1.45E+05	-3.54E+04	1.45E+05
L4	-9.61E+04	1.88E+05	-7.40E+04	1.77E+05
NF	-6.22E+04	1.12E+04	-5.96E+04	8.14E+03
NS	-7.49E+04	7.10E+04	-7.40E+04	7.03E+04

# TASK 1/HEAVE MOTION/MODEL 5514

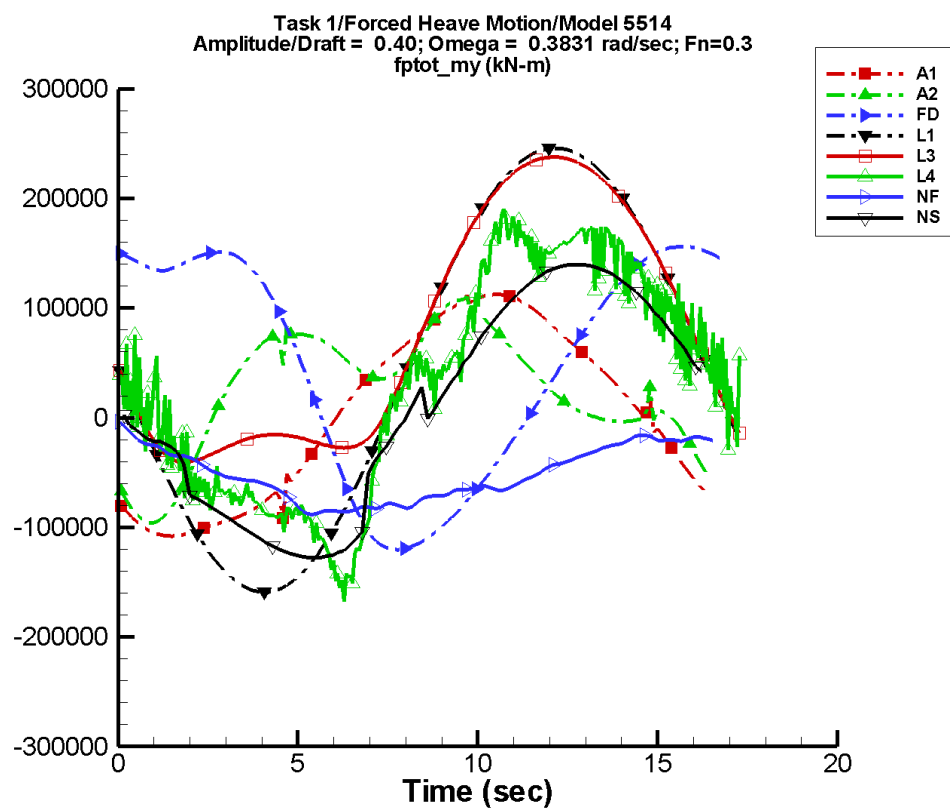


Figure B-114. Time history of  $M_y^{ptot}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	3.65E+03	1.07E+05	-138	966.	155
A2	2.40E+04	6.56E+04	-91	2.48E+04	-102
FD	4.62E+04	1.34E+05	81	3.57E+04	-88
L1	4.77E+04	2.02E+05	-178	4.96E+03	66
L3	7.83E+04	1.44E+05	-176	3.12E+04	-93
L4	3.09E+04	1.38E+05	172	1.52E+04	-16
NF	-3.30E+04	2.23E+04	157	2.67E+03	63
NS	1.06E+04	1.31E+05	171	3.63E+03	23

Table B–228. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.15E+05	1.13E+05	-1.07E+05	1.12E+05
A2	-9.56E+04	1.11E+05	-9.32E+04	1.05E+05
FD	-1.20E+05	1.56E+05	-1.19E+05	1.56E+05
L1	-1.59E+05	2.46E+05	-1.59E+05	2.46E+05
L3	-4.04E+04	2.38E+05	-4.01E+04	2.38E+05
L4	-1.68E+05	1.90E+05	-1.49E+05	1.76E+05
NF	-8.85E+04	1.42E+04	-8.64E+04	1.31E+04
NS	-1.28E+05	1.44E+05	-1.27E+05	1.43E+05

# TASK 1/HEAVE MOTION/MODEL 5514

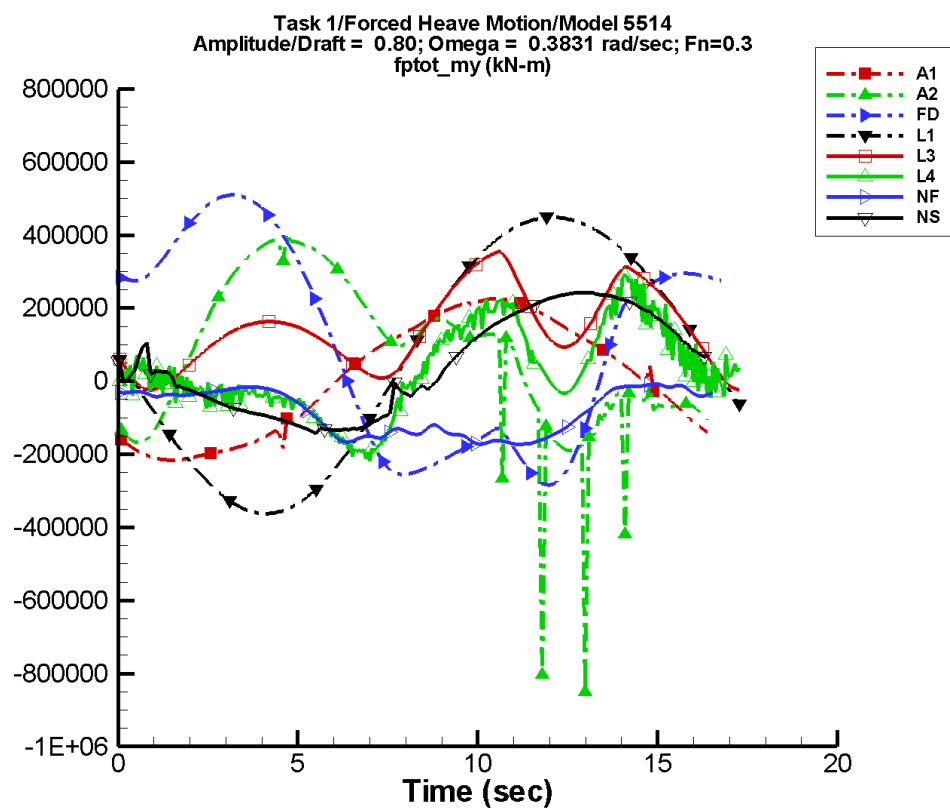


Figure B-115. Time history of  $M_y^{ptot}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

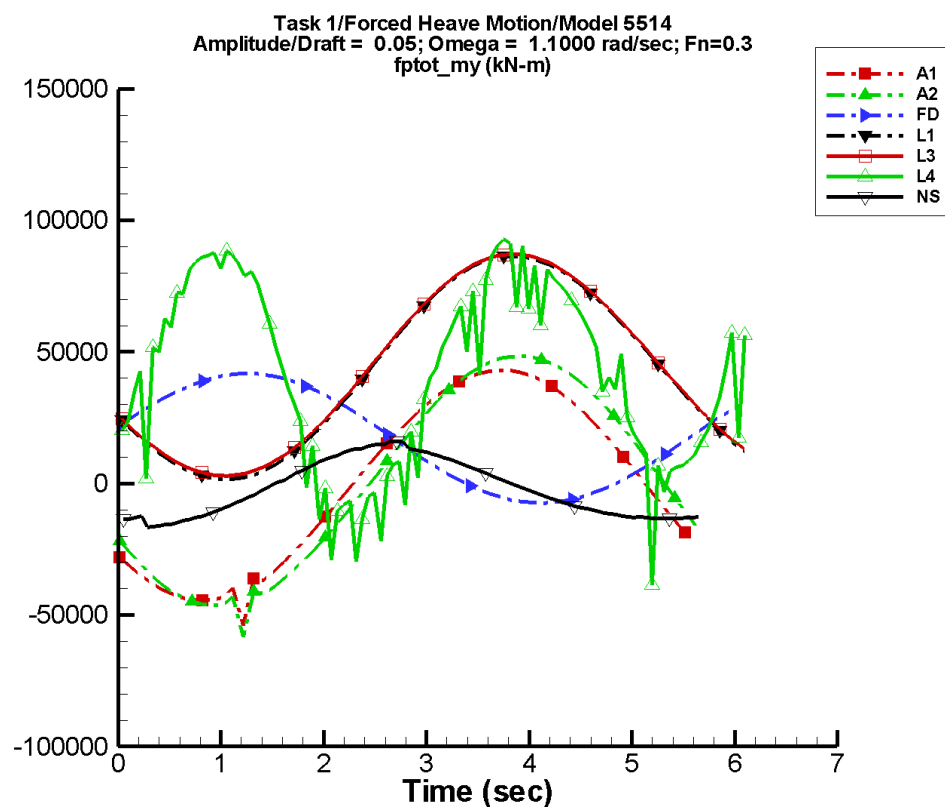
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	7.30E+03	2.13E+05	-138	1.93E+03	155
A2	6.86E+04	2.49E+05	-35	5.74E+04	-101
FD	9.60E+04	3.64E+05	46	5.87E+04	-84
L1	6.05E+04	4.05E+05	-178	1.98E+04	66
L3	1.40E+05	8.81E+04	-160	4.47E+04	-92
L4	2.47E+04	1.25E+05	163	2.88E+04	0
NF	-5.92E+04	4.67E+04	84	7.45E+03	-138
NS	4.89E+04	1.82E+05	162	2.61E+04	-67

Table B–230. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.30E+05	2.25E+05	-2.15E+05	2.24E+05
A2	-8.51E+05	4.04E+05	-2.53E+05	3.78E+05
FD	-2.84E+05	5.10E+05	-2.77E+05	5.07E+05
L1	-3.62E+05	4.48E+05	-3.62E+05	4.48E+05
L3	-2.36E+04	3.56E+05	-2.17E+04	3.49E+05
L4	-2.18E+05	2.89E+05	-1.97E+05	2.66E+05
NF	-1.74E+05	2.37E+04	-1.70E+05	2.26E+04
NS	-1.44E+05	2.53E+05	-1.34E+05	2.52E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

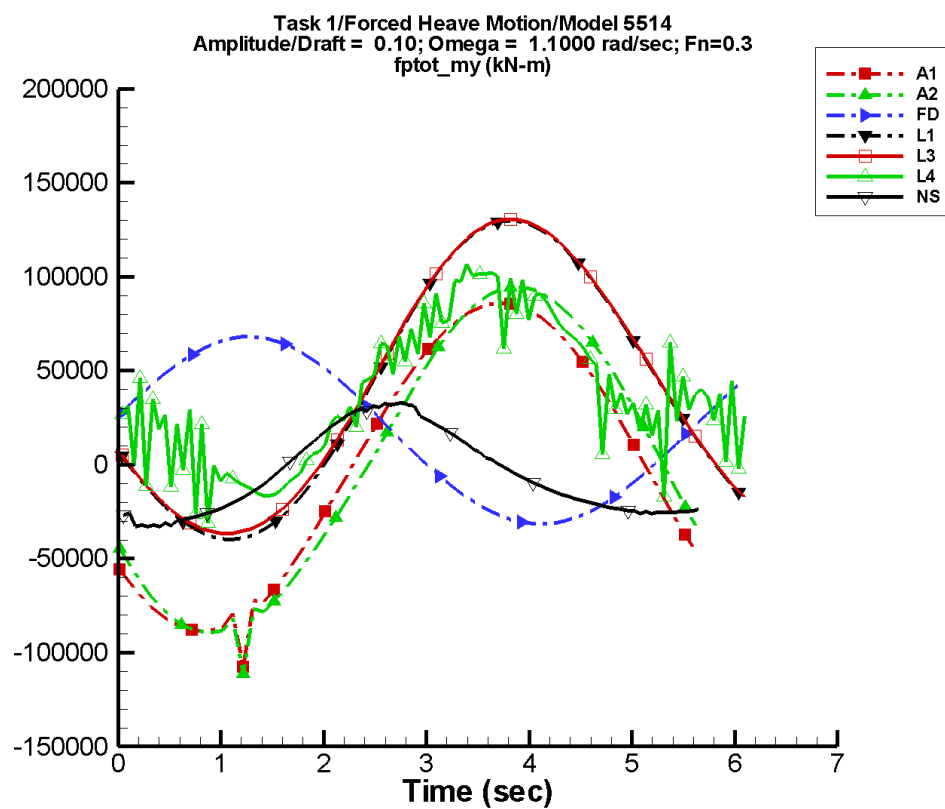
Table B–231. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-676.	4.39E+04	-144	160.	166
A2	568.	4.77E+04	-155	652.	-120
FD	1.70E+04	2.46E+04	11	149.	-90
L1	4.35E+04	4.24E+04	-154	984.	18
L3	4.44E+04	4.20E+04	-154	911.	9
L4	4.13E+04	9.56E+03	143	4.64E+04	-35
NF	—	—	—	—	—
NS	-2.19E+03	1.43E+04	-82	3.04E+03	133

Table B–232. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.40E+04	4.31E+04	-4.38E+04	4.17E+04
A2	-5.82E+04	4.85E+04	-4.62E+04	4.70E+04
FD	-7.39E+03	4.17E+04	-6.65E+03	4.10E+04
L1	1.59E+03	8.64E+04	2.05E+03	8.59E+04
L3	2.93E+03	8.71E+04	3.39E+03	8.66E+04
L4	-3.86E+04	9.28E+04	-1.32E+04	8.57E+04
NF	—	—	—	—
NS	-1.68E+04	1.65E+04	-1.52E+04	1.54E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-117. Time history of  $M_y^{ptot}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.35E+03	8.77E+04	-144	320.	166
A2	1.47E+03	9.22E+04	-154	2.30E+03	-113
FD	1.76E+04	4.96E+04	11	772.	-90
L1	4.30E+04	8.45E+04	-154	3.67E+03	15
L3	4.44E+04	8.34E+04	-154	3.42E+03	2
L4	3.89E+04	4.72E+04	-148	1.64E+04	42
NF	—	—	—	—	—
NS	-5.54E+03	2.86E+04	-83	8.78E+03	132

Table B–234. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.08E+05	8.60E+04	-8.74E+04	8.33E+04
A2	-1.11E+05	9.45E+04	-8.85E+04	9.15E+04
FD	-3.16E+04	6.81E+04	-3.01E+04	6.64E+04
L1	-3.96E+04	1.30E+05	-3.88E+04	1.29E+05
L3	-3.66E+04	1.31E+05	-3.57E+04	1.30E+05
L4	-3.11E+04	1.07E+05	-1.36E+04	9.79E+04
NF	—	—	—	—
NS	-3.29E+04	3.36E+04	-3.15E+04	3.23E+04

# TASK 1/HEAVE MOTION/MODEL 5514

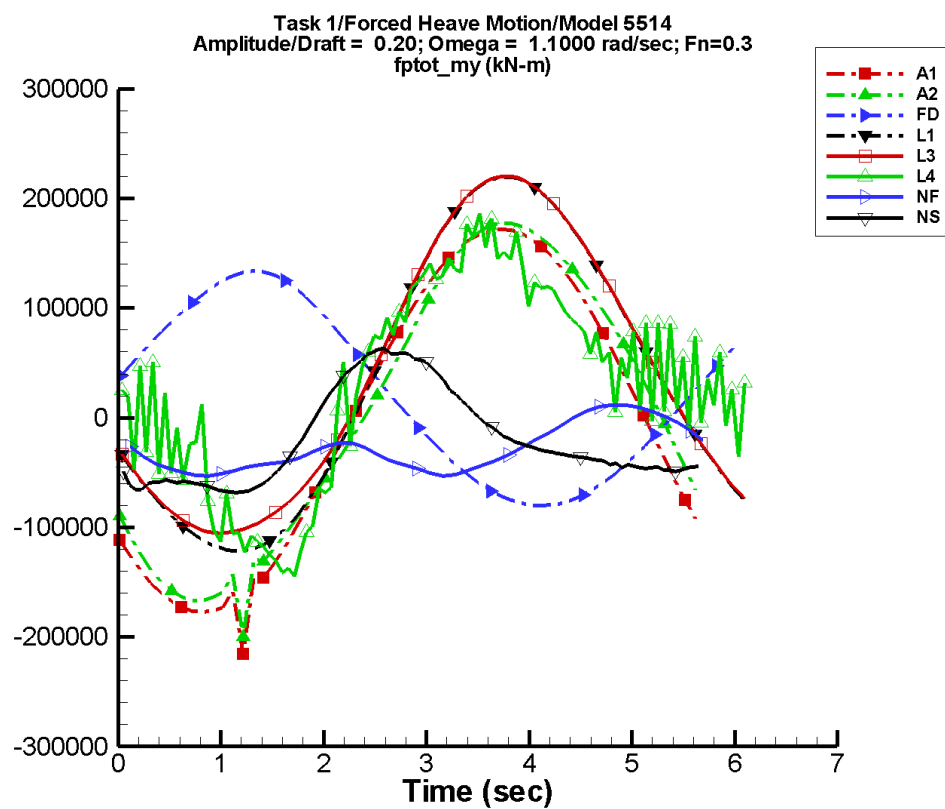


Figure B-118. Time history of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-2.70E+03	1.75E+05	-144	640.	166
A2	4.25E+03	1.69E+05	-150	6.64E+03	-114
FD	2.10E+04	1.04E+05	10	5.57E+03	-89
L1	4.08E+04	1.69E+05	-154	1.43E+04	14
L3	4.59E+04	1.62E+05	-153	1.33E+04	-10
L4	3.21E+04	1.14E+05	-157	5.17E+04	59
NF	-2.84E+04	1.95E+04	153	2.10E+04	-163
NS	-2.03E+04	5.11E+04	-96	2.74E+04	119

Table B–236. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.16E+05	1.72E+05	-1.75E+05	1.67E+05
A2	-2.00E+05	1.77E+05	-1.63E+05	1.71E+05
FD	-8.04E+04	1.34E+05	-7.74E+04	1.29E+05
L1	-1.21E+05	2.20E+05	-1.20E+05	2.17E+05
L3	-1.05E+05	2.20E+05	-1.04E+05	2.18E+05
L4	-1.57E+05	1.86E+05	-1.31E+05	1.62E+05
NF	-5.32E+04	1.16E+04	-5.04E+04	6.84E+03
NS	-7.12E+04	6.32E+04	-6.94E+04	5.94E+04

# TASK 1/HEAVE MOTION/MODEL 5514

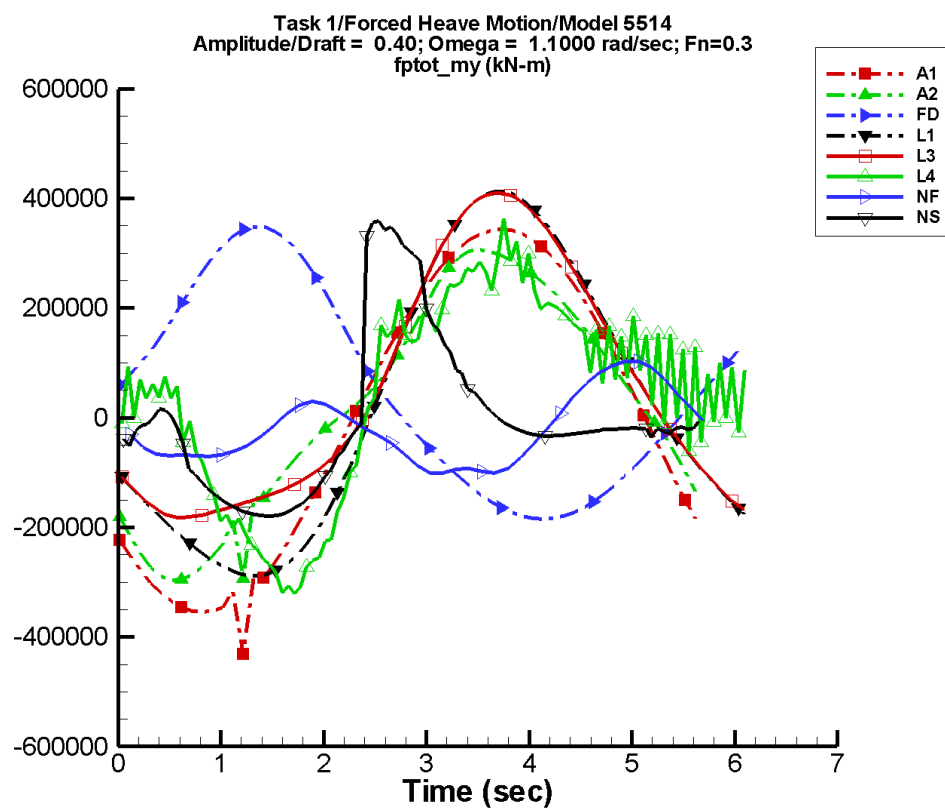


Figure B-119. Time history of  $M_y^{ptot}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-5.40E+03	3.51E+05	-144	1.28E+03	166
A2	1.48E+04	2.74E+05	-139	2.38E+04	-112
FD	4.63E+04	2.51E+05	8	3.83E+04	-89
L1	3.19E+04	3.38E+05	-154	5.67E+04	14
L3	6.24E+04	2.87E+05	-148	5.59E+04	-27
L4	4.36E+04	2.25E+05	-169	1.17E+05	48
NF	-2.22E+04	4.15E+04	117	7.51E+04	-169
NS	2.66E+03	1.12E+05	-125	1.33E+05	92

Table B–238. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.31E+05	3.44E+05	-3.50E+05	3.33E+05
A2	-3.32E+05	3.07E+05	-2.75E+05	2.93E+05
FD	-1.85E+05	3.48E+05	-1.78E+05	3.33E+05
L1	-2.88E+05	4.12E+05	-2.84E+05	4.07E+05
L3	-1.82E+05	4.10E+05	-1.79E+05	4.04E+05
L4	-3.21E+05	3.63E+05	-2.92E+05	2.88E+05
NF	-1.01E+05	1.02E+05	-9.50E+04	8.02E+04
NS	-1.90E+05	3.86E+05	-1.88E+05	3.59E+05



# TASK 1/HEAVE MOTION/MODEL 5514

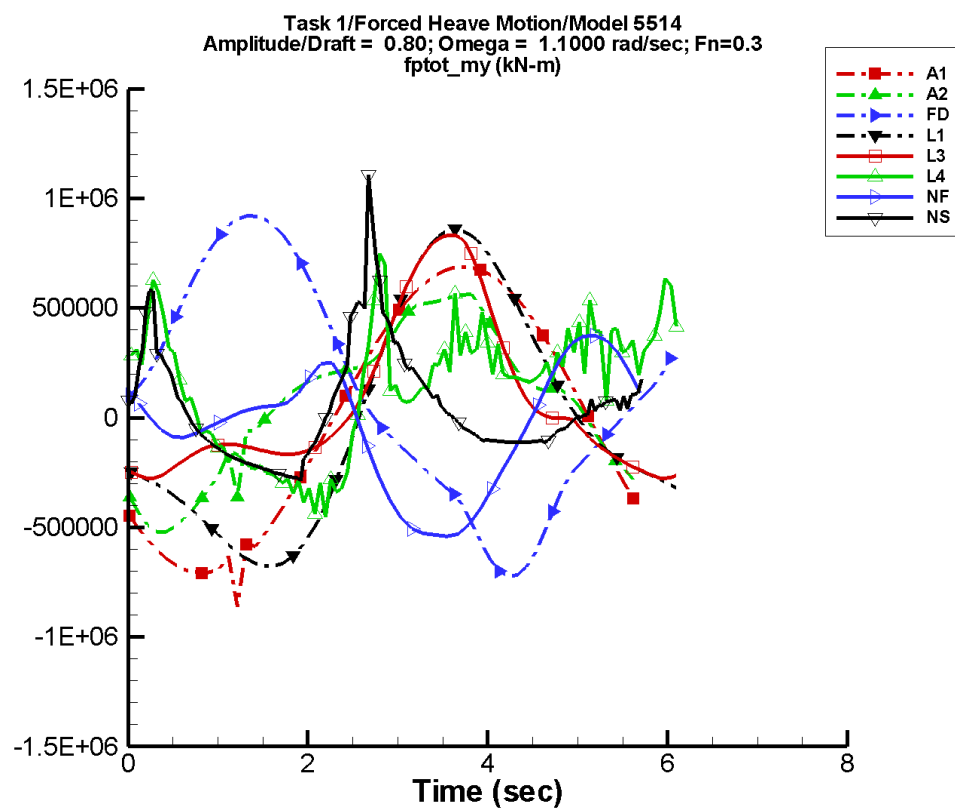


Figure B-120. Time history of  $M_y^{ptot}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $F_n = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

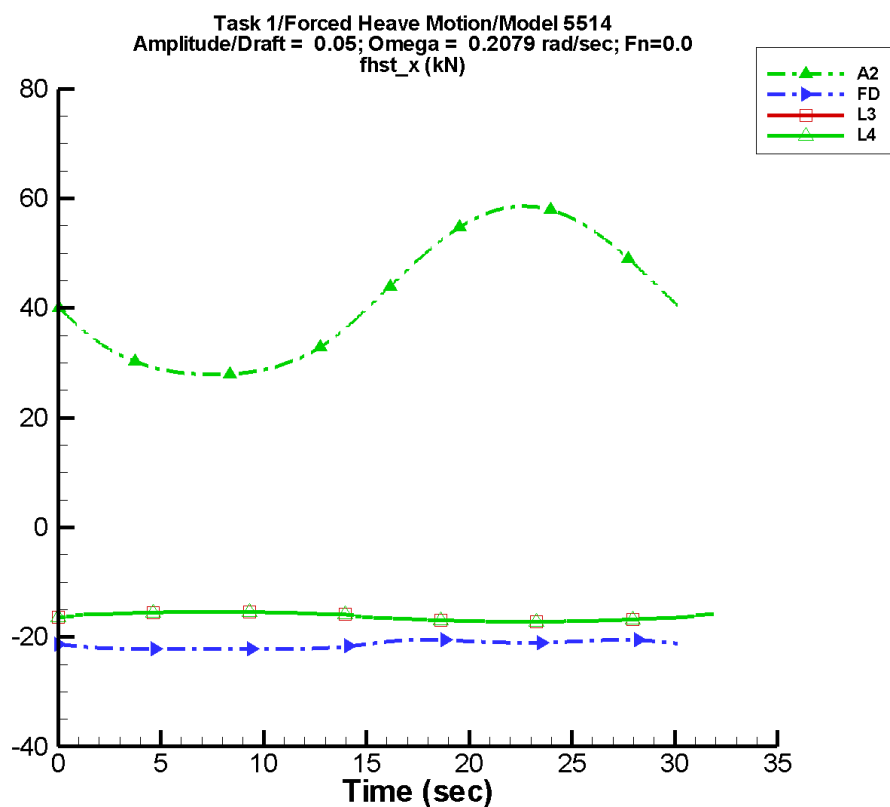
Table B–239. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{ptot}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.08E+04	7.02E+05	-144	2.56E+03	166
A2	6.48E+04	4.48E+05	-121	7.27E+04	-108
FD	9.38E+04	7.10E+05	6	7.73E+04	-89
L1	-3.40E+03	6.76E+05	-154	2.26E+05	14
L3	7.52E+04	4.23E+05	-132	2.10E+05	-7
L4	1.32E+05	2.83E+05	159	2.14E+05	59
NF	-4.32E+04	2.32E+05	67	2.92E+05	-171
NS	7.11E+04	7.97E+04	-122	2.87E+05	87

Table B–240. Minimum and maximum of  $M_y^{\text{ptot}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.62E+05	6.88E+05	-6.99E+05	6.67E+05
A2	-5.21E+05	5.62E+05	-4.58E+05	5.36E+05
FD	-7.23E+05	9.20E+05	-6.39E+05	8.85E+05
L1	-6.78E+05	8.58E+05	-6.66E+05	8.42E+05
L3	-2.78E+05	8.33E+05	-2.64E+05	8.12E+05
L4	-4.52E+05	7.49E+05	-3.72E+05	4.55E+05
NF	-5.40E+05	3.75E+05	-5.01E+05	2.89E+05
NS	-2.87E+05	1.16E+06	-2.62E+05	7.33E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

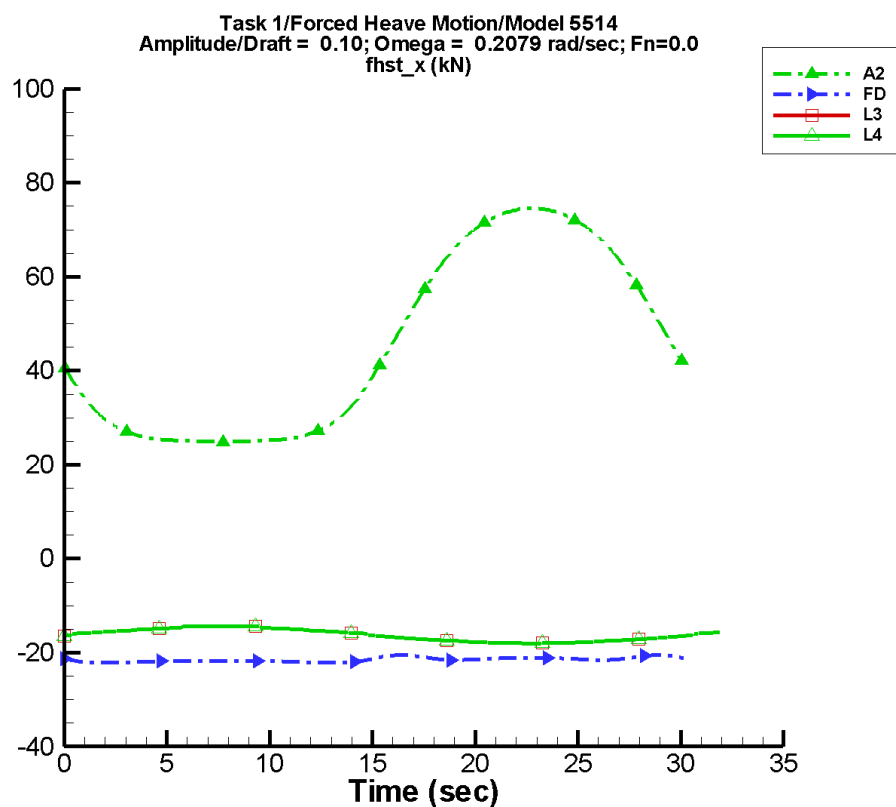
Table B–241. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	-180	1.62	-91
FD	-21.4	0.828	-177	0.120	74
L1	—	—	—	—	—
L3	-16.3	0.940	0	1.52E-02	75
L4	-16.3	0.940	0	1.52E-02	75
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–242. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	27.9	58.6
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-122. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

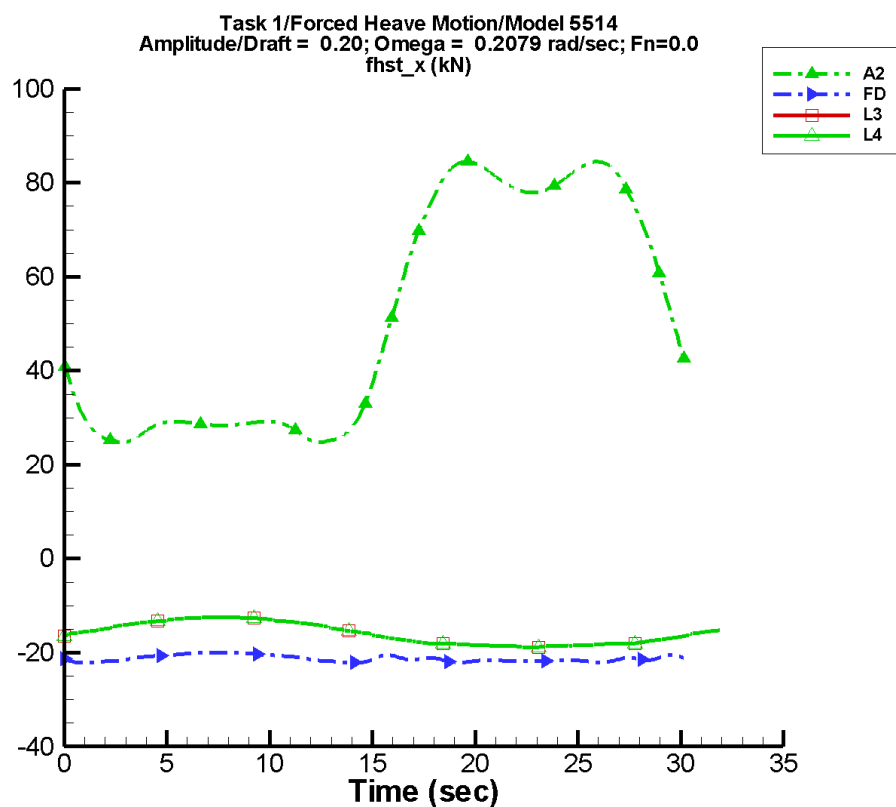
Table B–243. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	179	5.13	-94
FD	-21.5	0.403	-173	2.66E-02	53
L1	—	—	—	—	—
L3	-16.3	1.80	0	6.09E-02	-90
L4	-16.3	1.80	0	6.09E-02	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–244. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.9	74.5
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-123. Time history of  $F_x^{hst}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

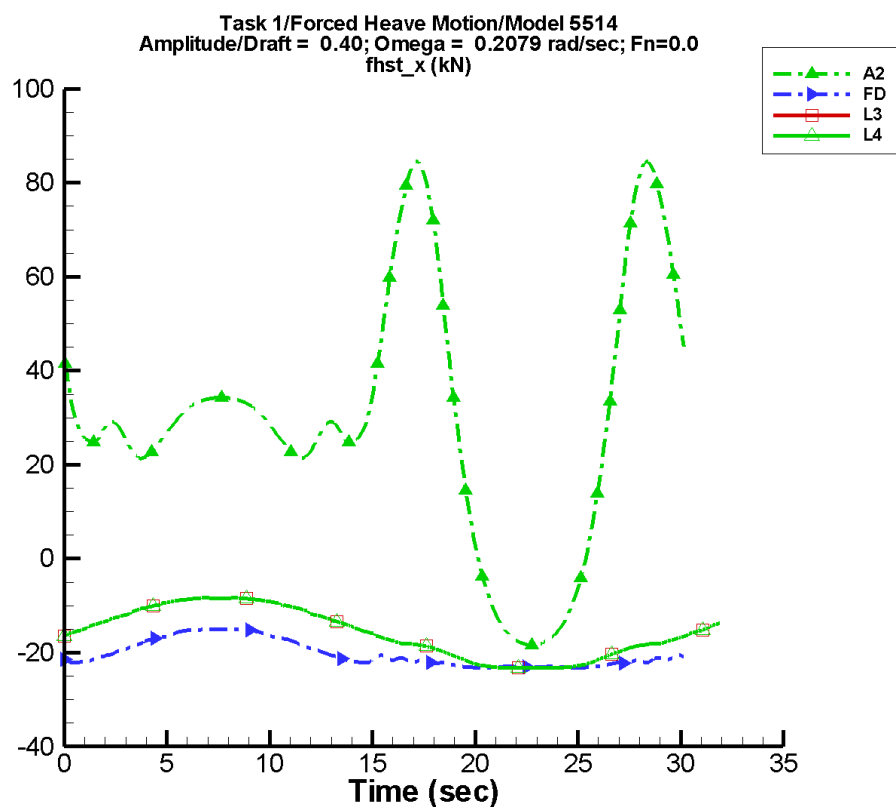
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	50.7	32.3	-180	7.71	-95
FD	-21.3	0.618	-7	0.390	-85
L1	—	—	—	—	—
L3	-15.9	3.17	-1	0.374	-91
L4	-15.9	3.17	-1	0.374	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–246. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.8	84.5	24.9	84.4
FD	-22.2	-20.0	-22.1	-20.0
L1	—	—	—	—
L3	-18.8	-12.5	-18.8	-12.5
L4	-18.8	-12.5	-18.8	-12.5
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-124. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

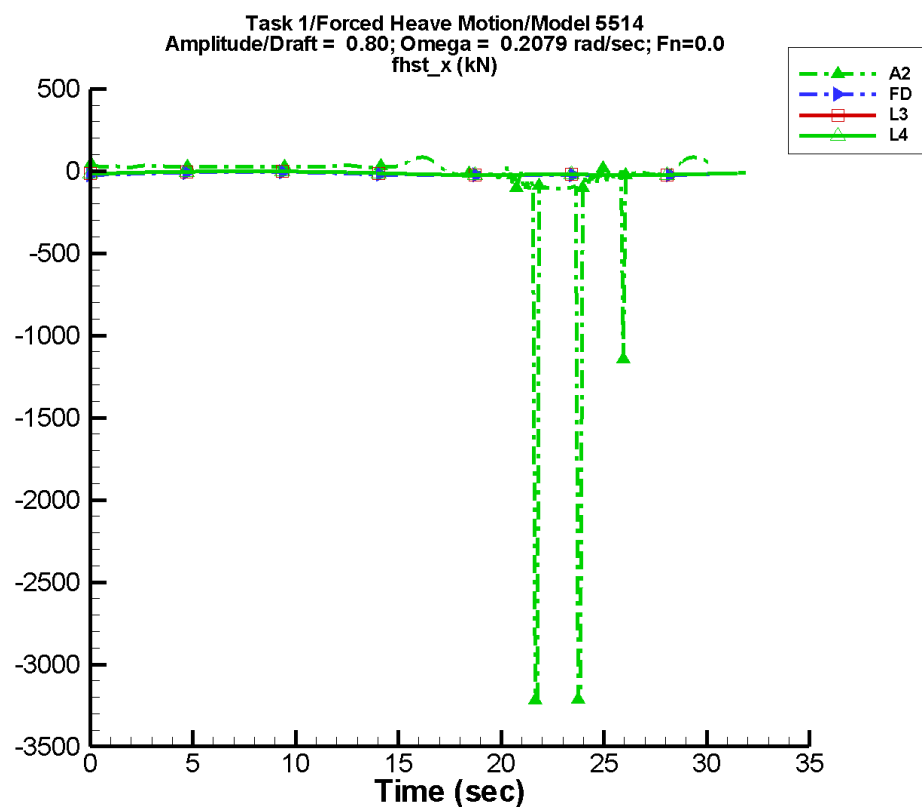
Table B–247. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.5	9.54	-19	20.1	92
FD	-20.4	3.62	-2	1.43	-87
L1	—	—	—	—	—
L3	-15.9	7.40	-1	0.171	-94
L4	-15.9	7.40	-1	0.171	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–248. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.4	84.5	-18.3	83.4
FD	-23.2	-15.0	-23.2	-15.0
L1	—	—	—	—
L3	-23.3	-8.26	-23.3	-8.33
L4	-23.3	-8.26	-23.3	-8.33
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-125. Time history of  $F_x^{hst}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

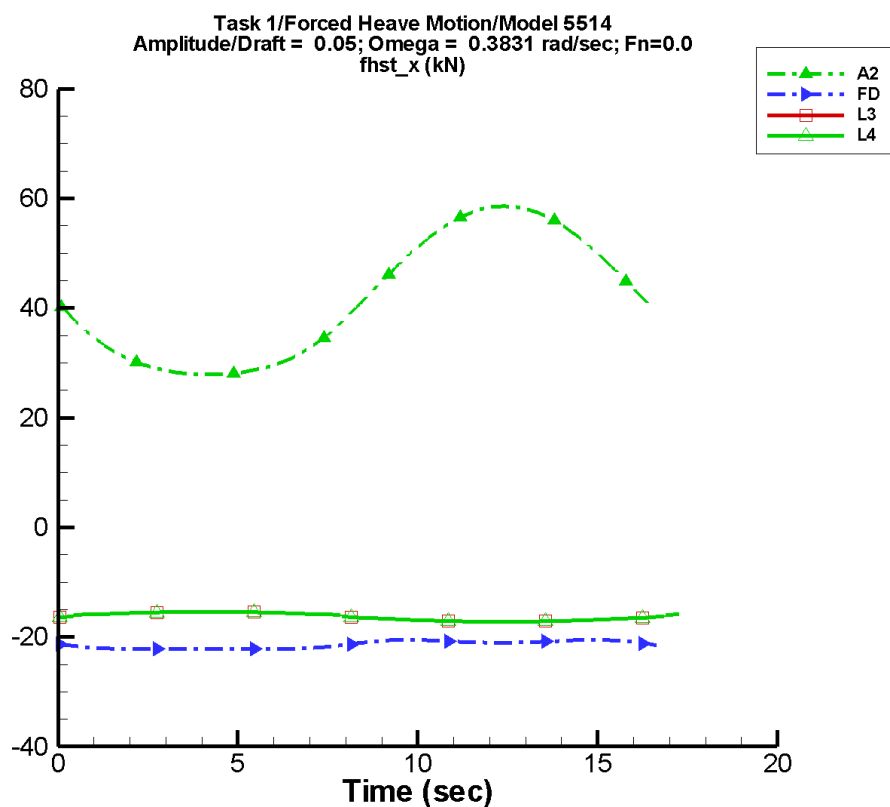
Table B–249. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	-41.0	131.	-6	103.	86
FD	-18.0	9.46	-1	3.28	-88
L1	—	—	—	—	—
L3	-14.1	11.2	0	2.13	-90
L4	-14.1	11.2	0	2.13	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–250. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.22E+03	84.5	-897.	78.4
FD	-25.2	-5.40	-25.1	-5.42
L1	—	—	—	—
L3	-24.8	-2.08	-24.7	-2.08
L4	-24.8	-2.08	-24.7	-2.08
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-126. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

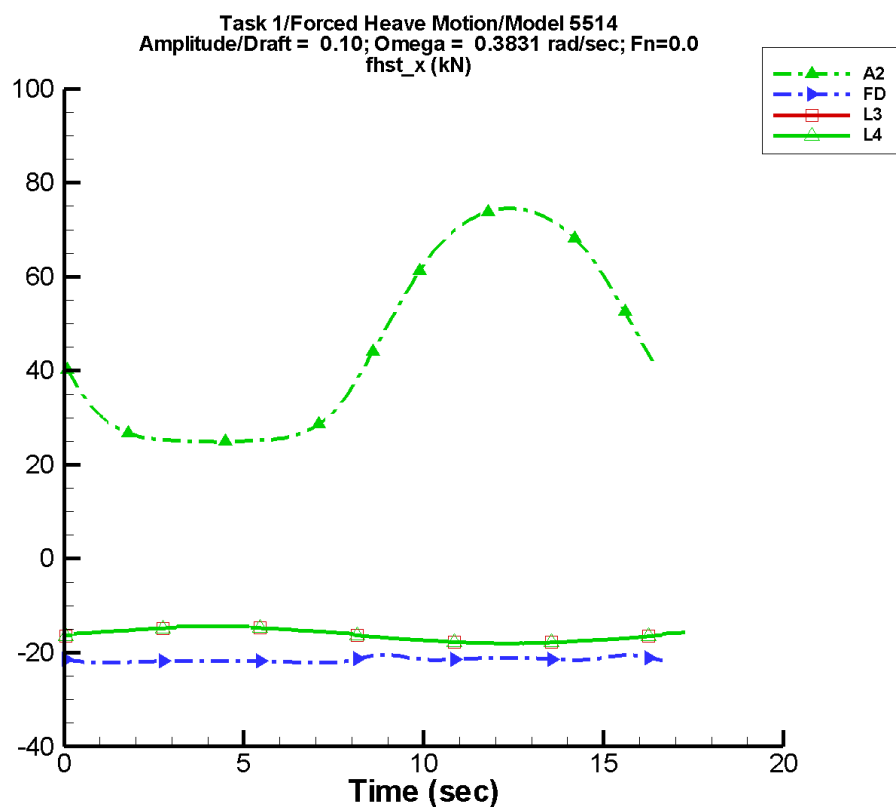
Table B–251. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	178	1.62	-96
FD	-21.4	0.816	-177	0.139	79
L1	—	—	—	—	—
L3	-16.3	0.946	-1	9.21E-03	29
L4	-16.3	0.946	-1	9.21E-03	29
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–252. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	27.8	58.5
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-127. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

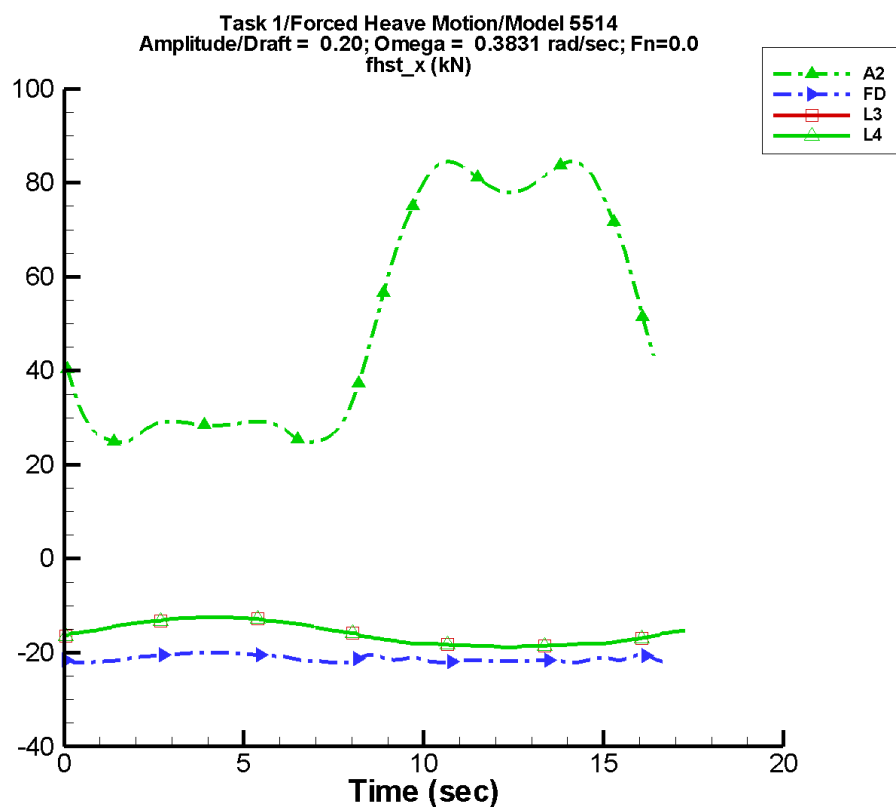
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	178	5.14	-96
FD	-21.5	0.393	-171	4.01E-02	34
L1	—	—	—	—	—
L3	-16.3	1.80	-1	5.07E-02	-96
L4	-16.3	1.80	-1	5.07E-02	-96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–254. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.8	74.5
FD	-22.2	-20.5	-22.1	-20.6
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-128. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

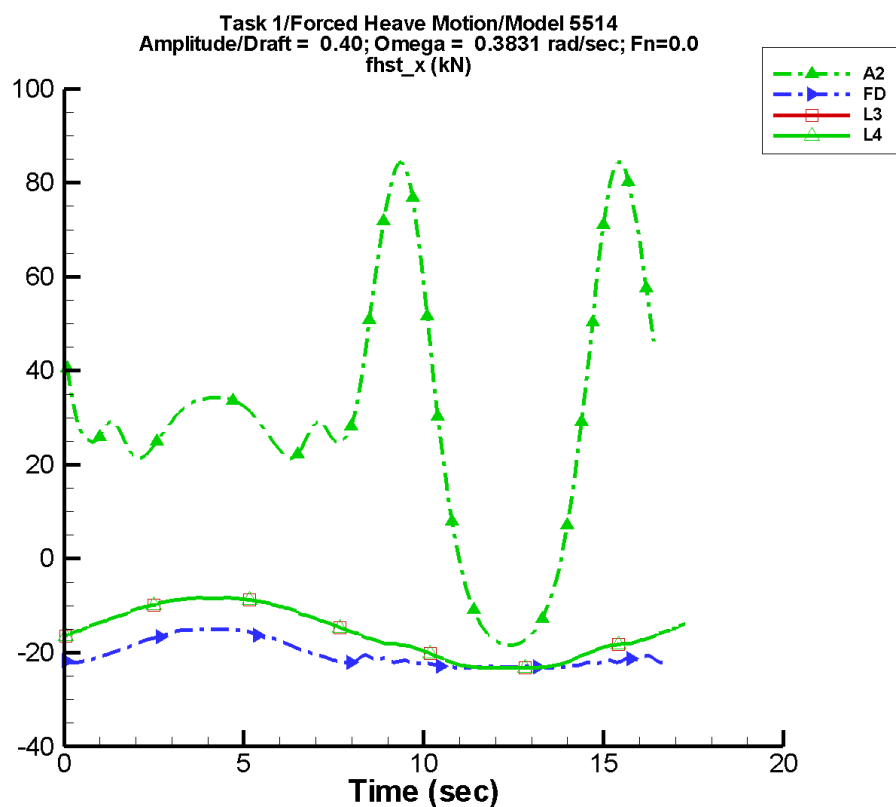
Table B–255. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	47.2	38.7	-174	10.9	-154
FD	-21.3	0.638	-7	0.373	-83
L1	—	—	—	—	—
L3	-15.9	3.18	-1	0.394	-91
L4	-15.9	3.18	-1	0.394	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–256. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.20E+03	84.5	-136.	84.2
FD	-22.2	-20.0	-22.1	-20.0
L1	—	—	—	—
L3	-18.8	-12.5	-18.8	-12.5
L4	-18.8	-12.5	-18.8	-12.5
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

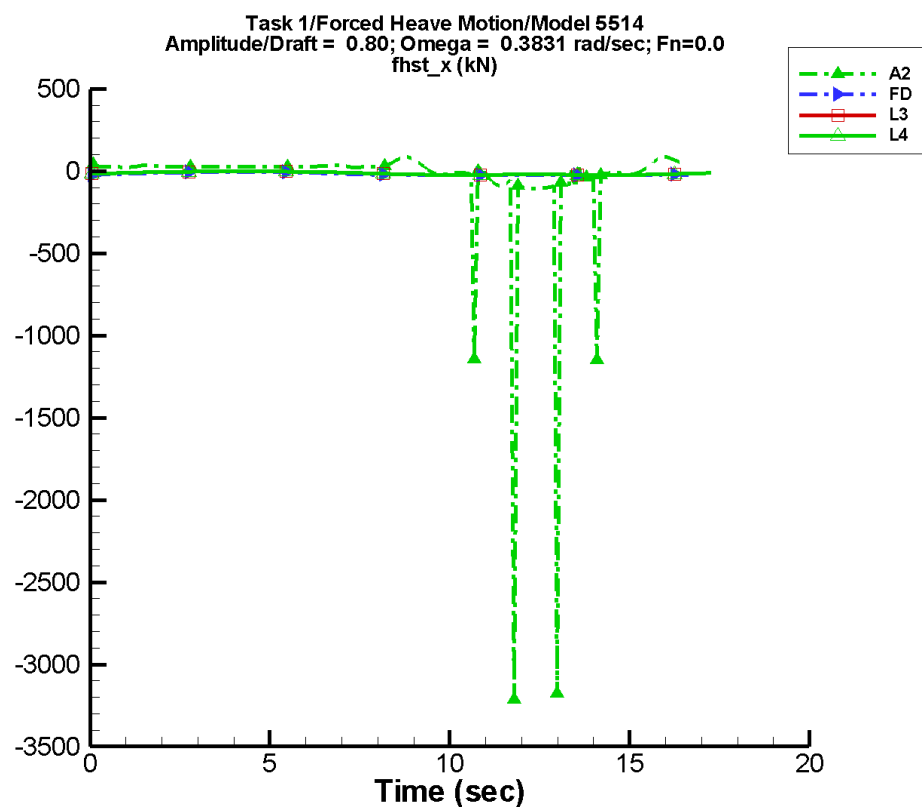
Table B–257. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $\text{Fn} = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.5	9.67	-20	20.0	90
FD	-20.4	3.64	-2	1.39	-87
L1	—	—	—	—	—
L3	-15.9	7.38	-2	0.147	-100
L4	-15.9	7.38	-2	0.147	-100
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–258. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.4	84.4	-18.1	80.9
FD	-23.2	-15.0	-23.2	-15.1
L1	—	—	—	—
L3	-23.3	-8.27	-23.3	-8.36
L4	-23.3	-8.27	-23.3	-8.36
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-130. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

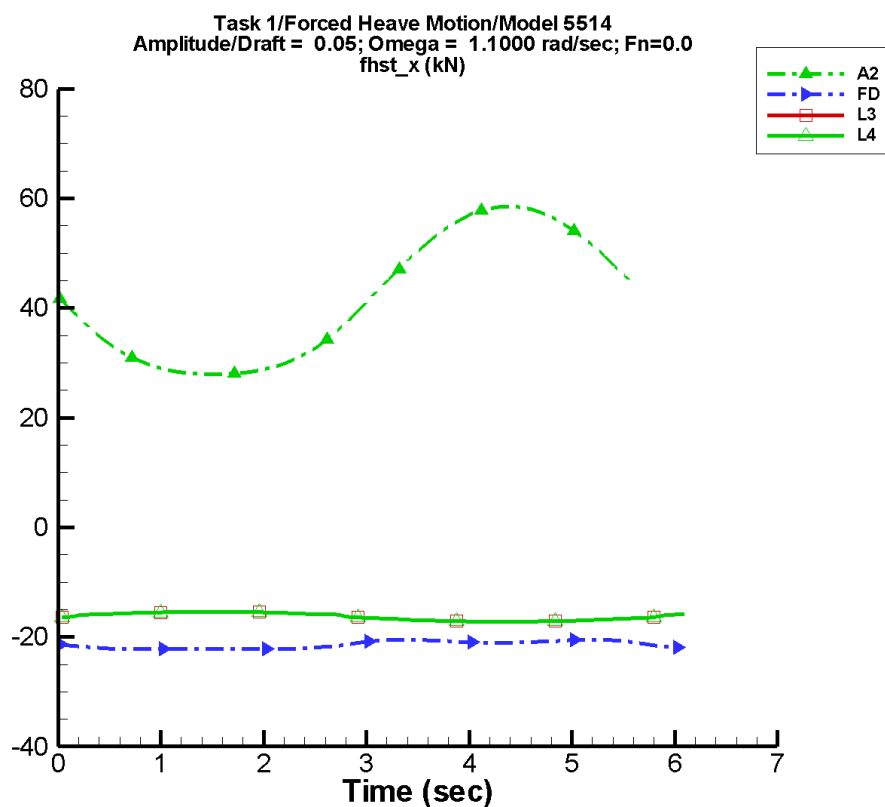
Table B–259. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	-47.6	141.	-5	103.	88
FD	-18.0	9.48	-1	3.23	-89
L1	—	—	—	—	—
L3	-14.0	11.3	0	2.39	-89
L4	-14.0	11.3	0	2.39	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–260. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.21E+03	84.5	-495.	75.3
FD	-25.2	-5.40	-25.0	-5.50
L1	—	—	—	—
L3	-24.8	-2.08	-24.7	-2.08
L4	-24.8	-2.08	-24.7	-2.08
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-131. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

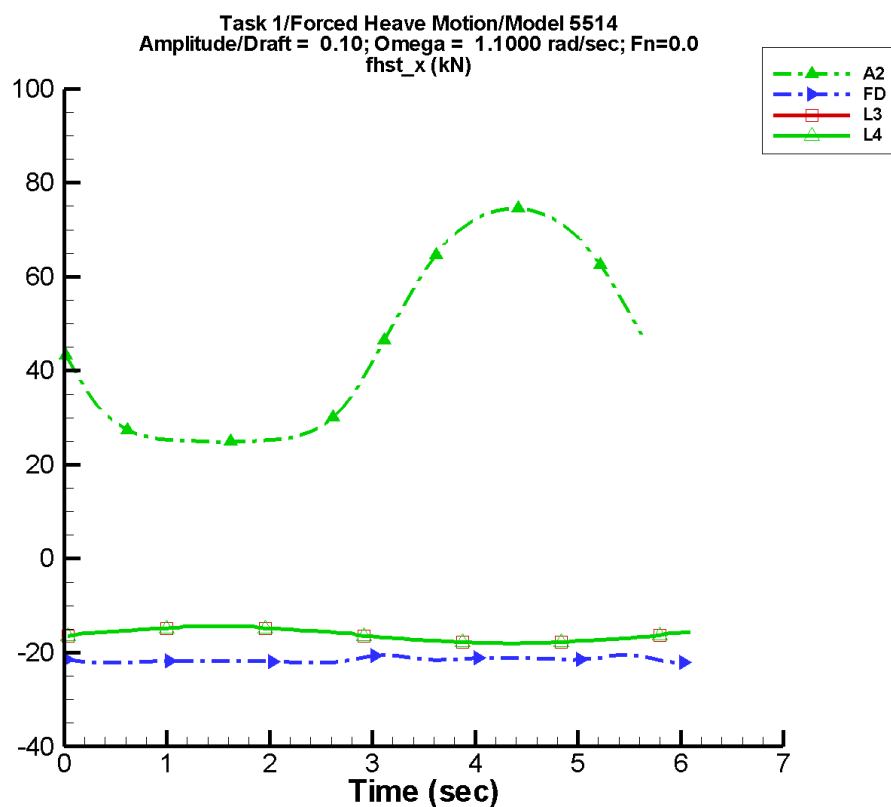
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	174	1.60	-104
FD	-21.4	0.835	-179	7.95E-02	86
L1	—	—	—	—	—
L3	-16.3	0.942	-4	1.70E-02	78
L4	-16.3	0.942	-4	1.70E-02	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–262. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	28.1	58.0
FD	-22.2	-20.5	-22.2	-20.6
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

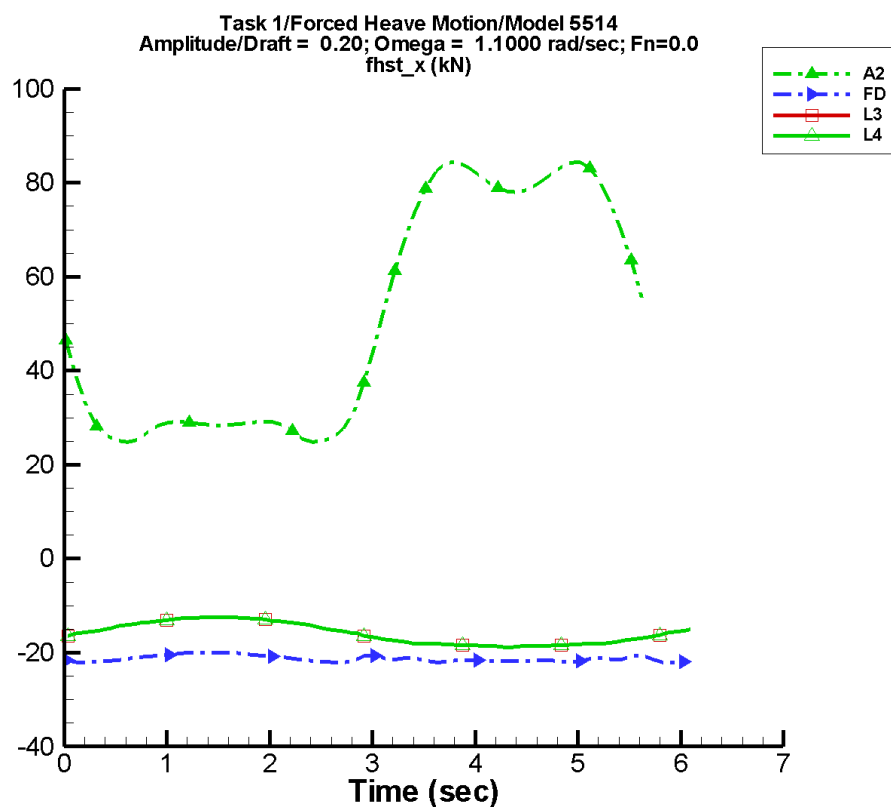
Table B–263. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	174	5.08	-104
FD	-21.5	0.421	-175	2.40E-02	-42
L1	—	—	—	—	—
L3	-16.3	1.80	-4	5.47E-02	-97
L4	-16.3	1.80	-4	5.47E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–264. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.8	73.8
FD	-22.2	-20.5	-22.0	-21.0
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-133. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

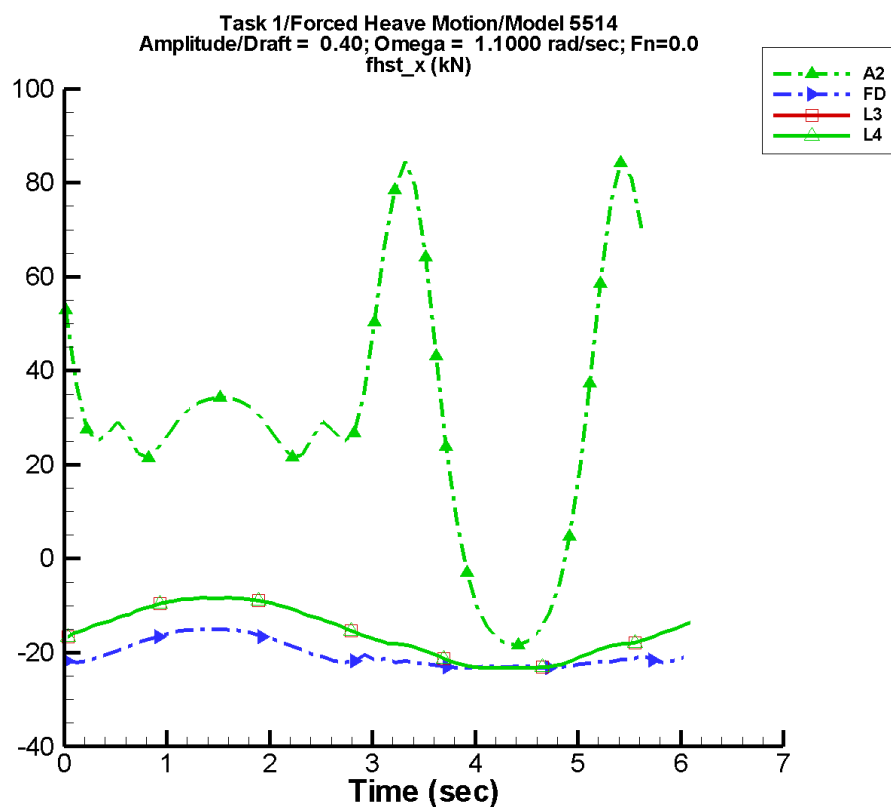
Table B–265. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $\text{Fn} = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	50.6	32.3	175	7.60	-105
FD	-21.3	0.594	-5	0.429	-86
L1	—	—	—	—	—
L3	-15.9	3.17	-4	0.368	-97
L4	-15.9	3.17	-4	0.368	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–266. Minimum and maximum of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $\text{Fn} = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.8	84.4	26.5	81.8
FD	-22.1	-20.0	-21.8	-20.1
L1	—	—	—	—
L3	-18.8	-12.5	-18.7	-12.5
L4	-18.8	-12.5	-18.7	-12.5
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-134. Time history 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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

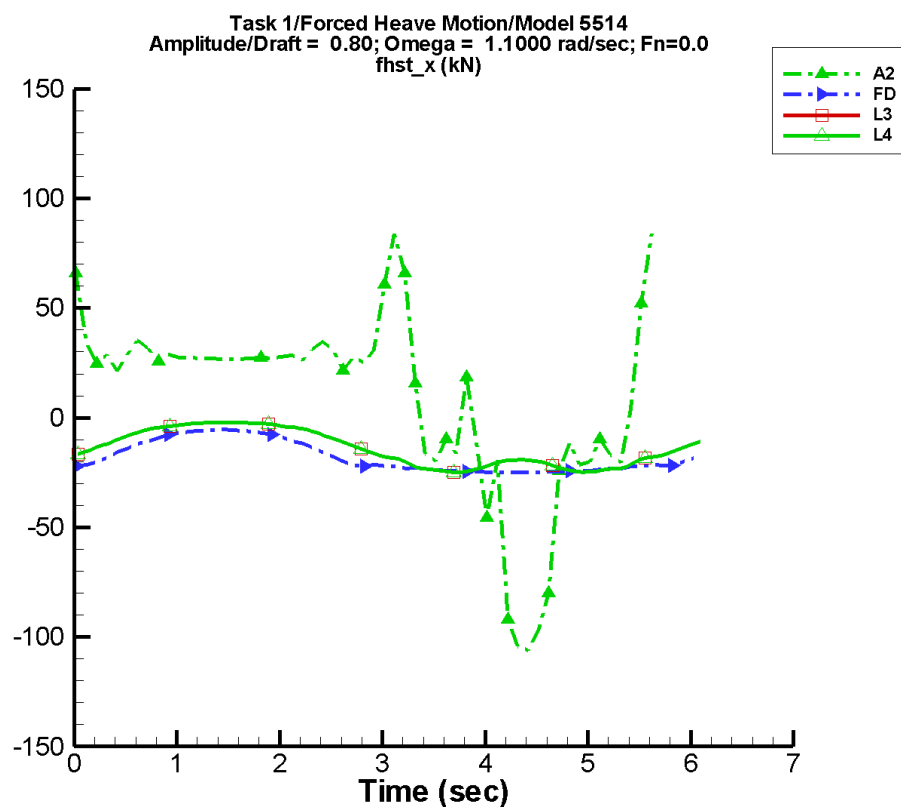
Table B–267. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.3	8.97	-24	20.9	82
FD	-20.4	3.59	-1	1.52	-89
L1	—	—	—	—	—
L3	-15.9	7.39	-4	0.202	-98
L4	-15.9	7.39	-4	0.202	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–268. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.3	84.5	-17.8	60.7
FD	-23.2	-15.0	-23.1	-15.2
L1	—	—	—	—
L3	-23.3	-8.27	-23.3	-8.37
L4	-23.3	-8.27	-23.3	-8.37
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-135. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

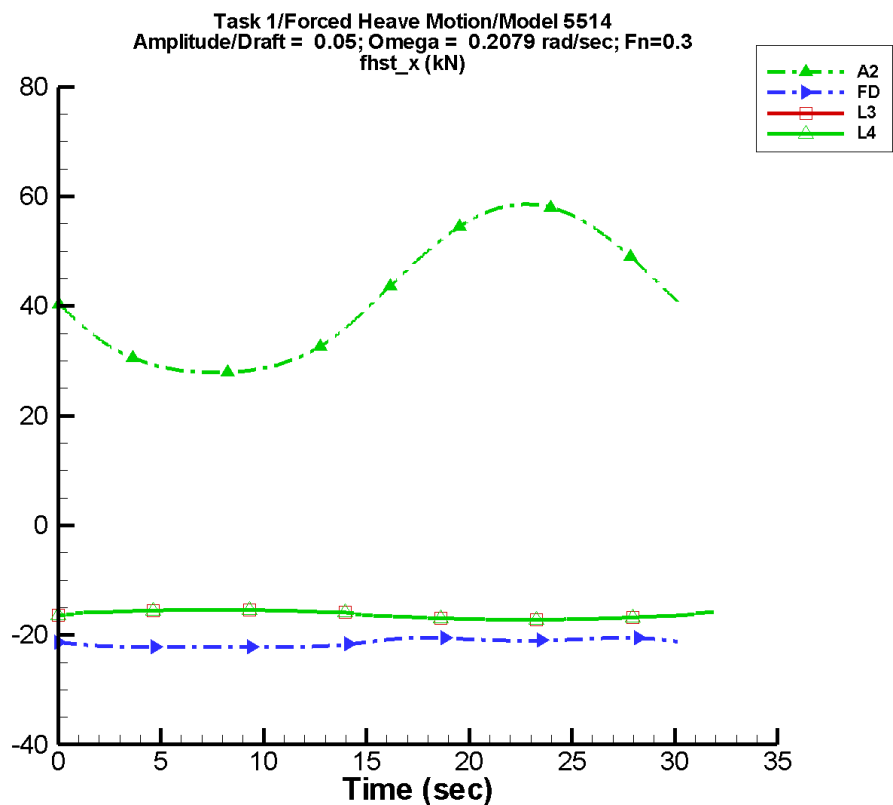
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	8.78	37.5	-10	31.2	77
FD	-18.0	9.45	0	3.43	-90
L1	—	—	—	—	—
L3	-14.0	11.2	-4	2.06	-97
L4	-14.0	11.2	-4	2.06	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–270. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-106.	84.1	-67.4	50.1
FD	-25.0	-5.40	-24.9	-5.92
L1	—	—	—	—
L3	-24.8	-2.08	-24.3	-2.14
L4	-24.8	-2.08	-24.3	-2.14
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-136. Time history of  $F_x^{hst}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

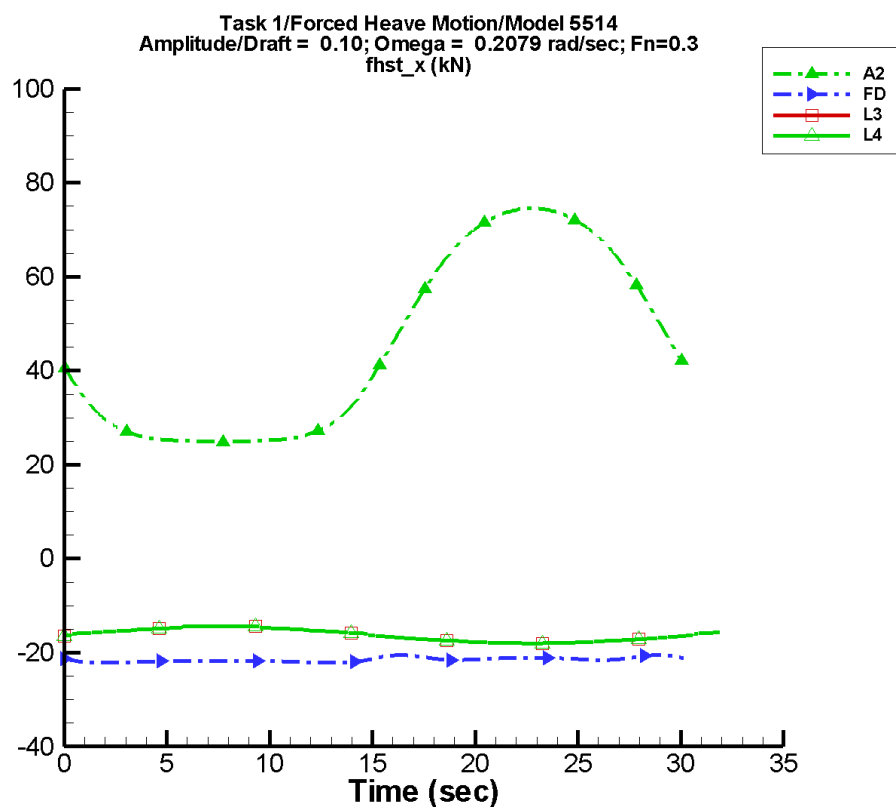
Table B–271. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	179	1.62	-94
FD	-21.4	0.828	-177	0.121	74
L1	—	—	—	—	—
L3	-16.3	0.940	0	1.51E-02	75
L4	-16.3	0.940	0	1.51E-02	75
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–272. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	27.9	58.6
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-137. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

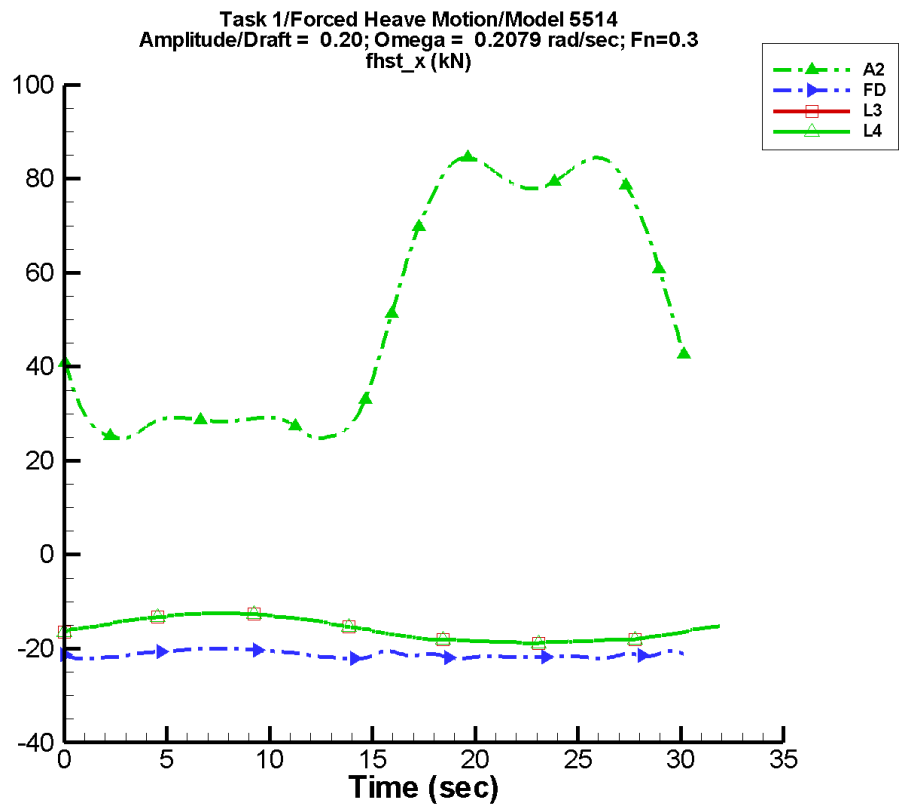
Table B–273. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	179	5.13	-94
FD	-21.5	0.403	-173	2.67E-02	53
L1	—	—	—	—	—
L3	-16.3	1.80	0	6.09E-02	-90
L4	-16.3	1.80	0	6.09E-02	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–274. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.9	74.5
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-138. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

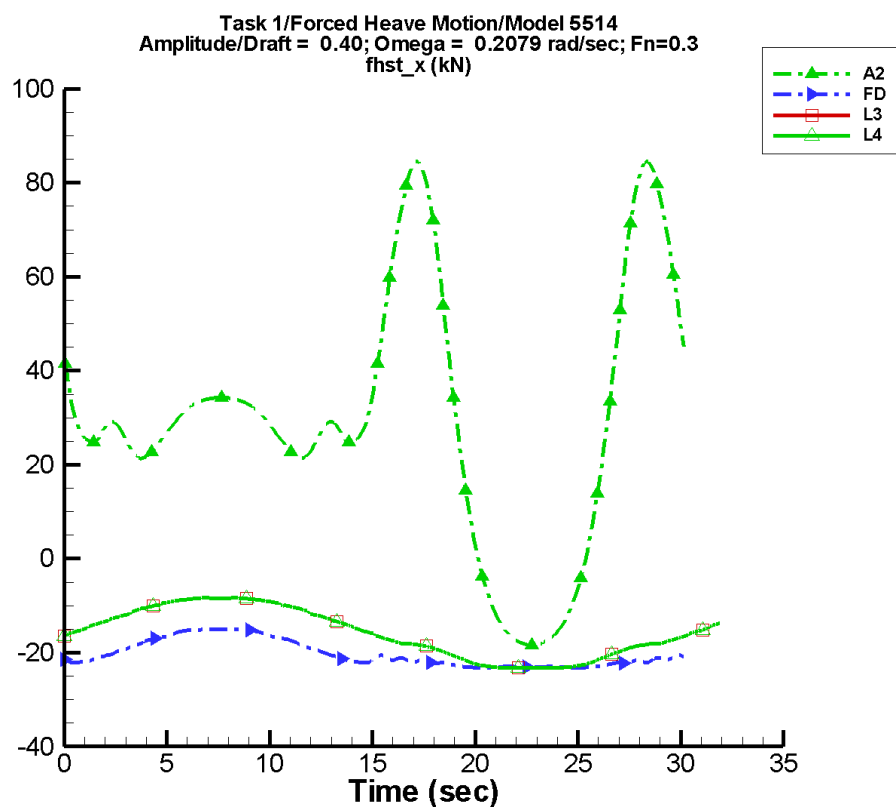
Table B–275. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	50.7	32.3	-180	7.71	-95
FD	-21.3	0.618	-7	0.390	-85
L1	—	—	—	—	—
L3	-15.9	3.17	-1	0.374	-91
L4	-15.9	3.17	-1	0.374	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–276. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.8	84.5	24.9	84.4
FD	-22.2	-20.0	-22.1	-20.0
L1	—	—	—	—
L3	-18.8	-12.5	-18.8	-12.5
L4	-18.8	-12.5	-18.8	-12.5
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

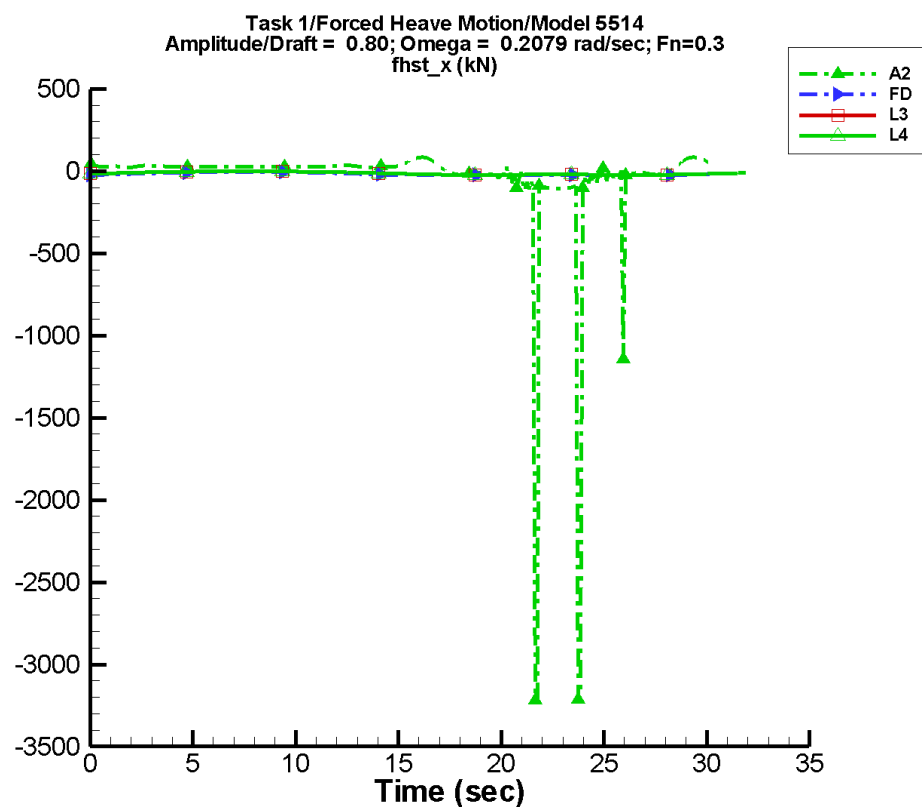
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.5	9.54	-19	20.1	92
FD	-20.4	3.62	-2	1.43	-87
L1	—	—	—	—	—
L3	-15.9	7.40	-1	0.171	-94
L4	-15.9	7.40	-1	0.171	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–278. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.4	84.5	-18.3	83.4
FD	-23.2	-15.0	-23.2	-15.0
L1	—	—	—	—
L3	-23.3	-8.26	-23.3	-8.33
L4	-23.3	-8.26	-23.3	-8.33
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

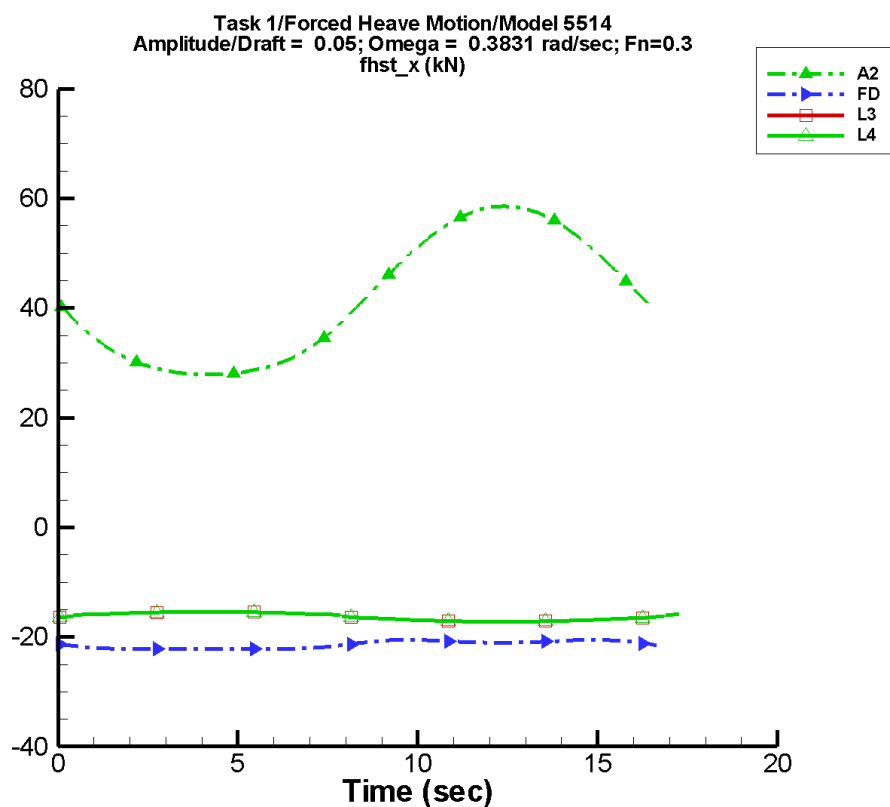
Table B–279. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	-41.0	131.	-6	103.	86
FD	-18.0	9.46	-1	3.28	-88
L1	—	—	—	—	—
L3	-14.1	11.2	0	2.13	-90
L4	-14.1	11.2	0	2.13	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–280. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.22E+03	84.5	-897.	78.4
FD	-25.2	-5.40	-25.1	-5.42
L1	—	—	—	—
L3	-24.8	-2.08	-24.7	-2.08
L4	-24.8	-2.08	-24.7	-2.08
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-141. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

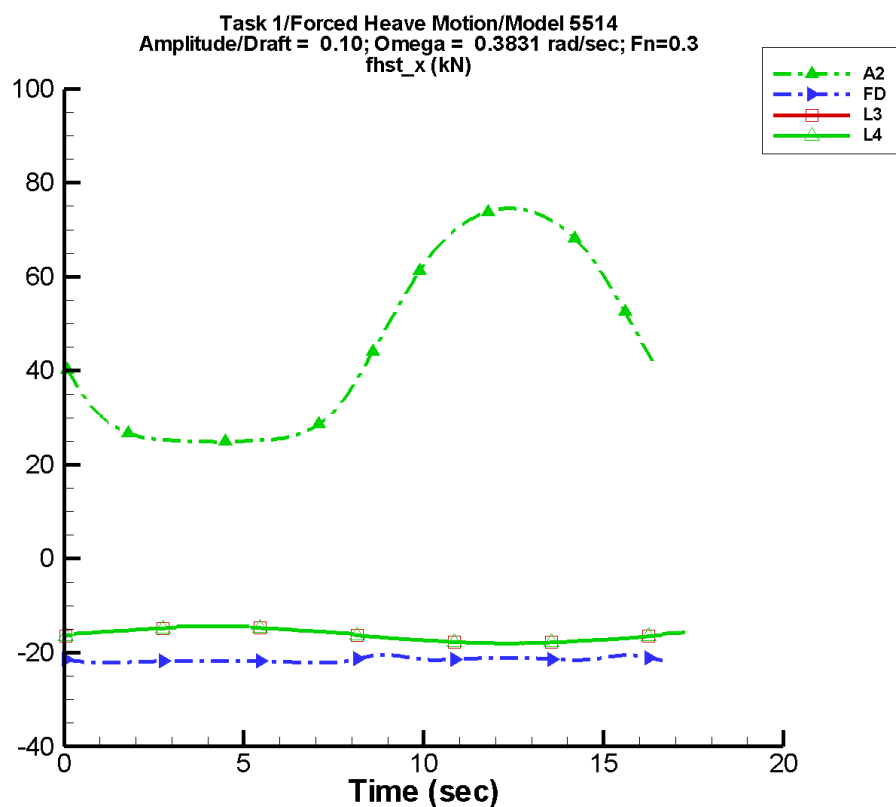
Table B–281. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	178	1.62	-96
FD	-21.4	0.816	-177	0.139	79
L1	—	—	—	—	—
L3	-16.3	0.946	-1	9.23E-03	29
L4	-16.3	0.946	-1	9.23E-03	29
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–282. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	27.8	58.5
FD	-22.2	-20.5	-22.2	-20.5
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-142. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

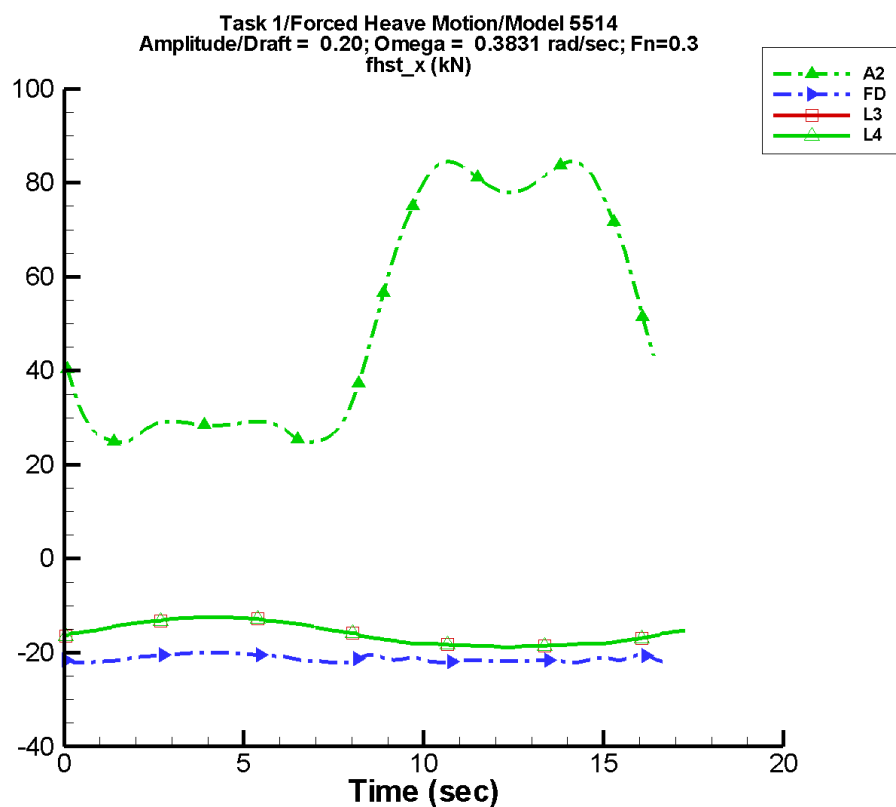
Table B–283. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	178	5.14	-96
FD	-21.5	0.392	-171	4.02E-02	34
L1	—	—	—	—	—
L3	-16.3	1.80	-1	5.06E-02	-96
L4	-16.3	1.80	-1	5.06E-02	-96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–284. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.8	74.5
FD	-22.2	-20.5	-22.1	-20.6
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-143. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

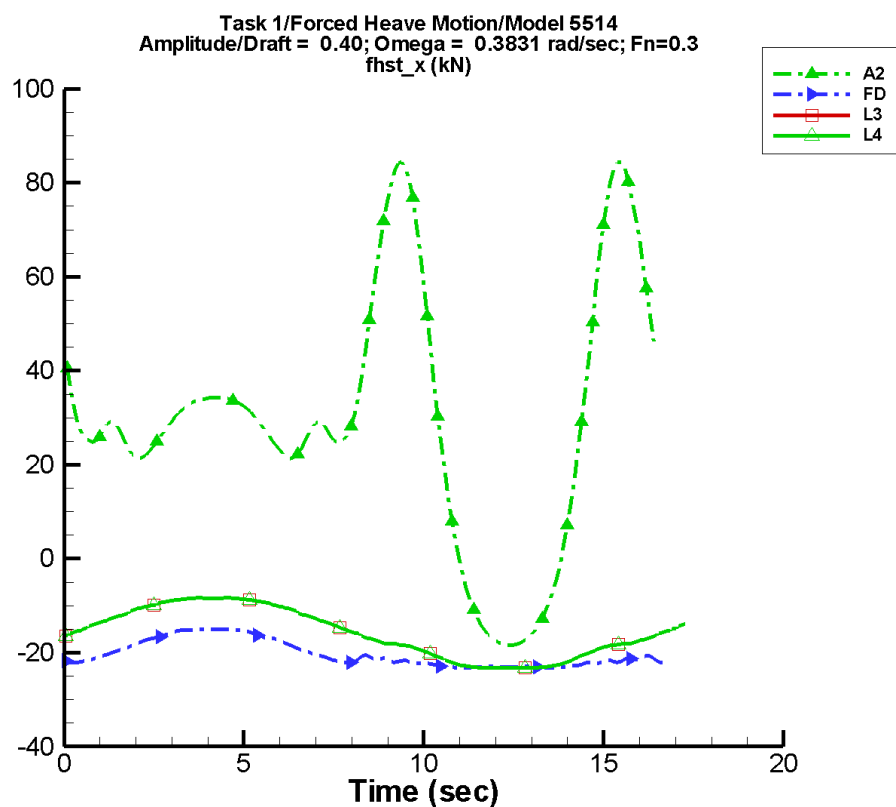
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	47.2	38.7	-174	10.9	-154
FD	-21.3	0.638	-7	0.373	-83
L1	—	—	—	—	—
L3	-15.9	3.18	-1	0.394	-91
L4	-15.9	3.18	-1	0.394	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–286. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.20E+03	84.5	-136.	84.2
FD	-22.2	-20.0	-22.1	-20.0
L1	—	—	—	—
L3	-18.8	-12.5	-18.8	-12.5
L4	-18.8	-12.5	-18.8	-12.5
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

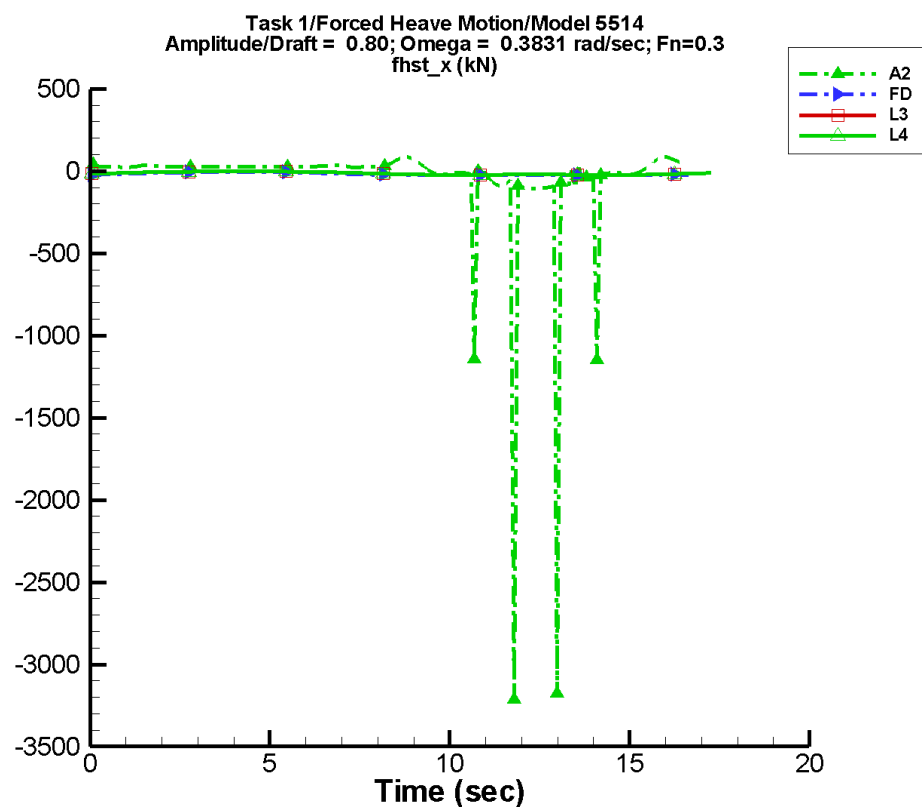
Table B–287. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.5	9.67	-20	20.0	90
FD	-20.4	3.64	-2	1.39	-87
L1	—	—	—	—	—
L3	-15.9	7.38	-2	0.147	-100
L4	-15.9	7.38	-2	0.147	-100
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–288. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.4	84.4	-18.1	80.9
FD	-23.2	-15.0	-23.2	-15.1
L1	—	—	—	—
L3	-23.3	-8.27	-23.3	-8.36
L4	-23.3	-8.27	-23.3	-8.36
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-145. Time history of  $F_x^{hst}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

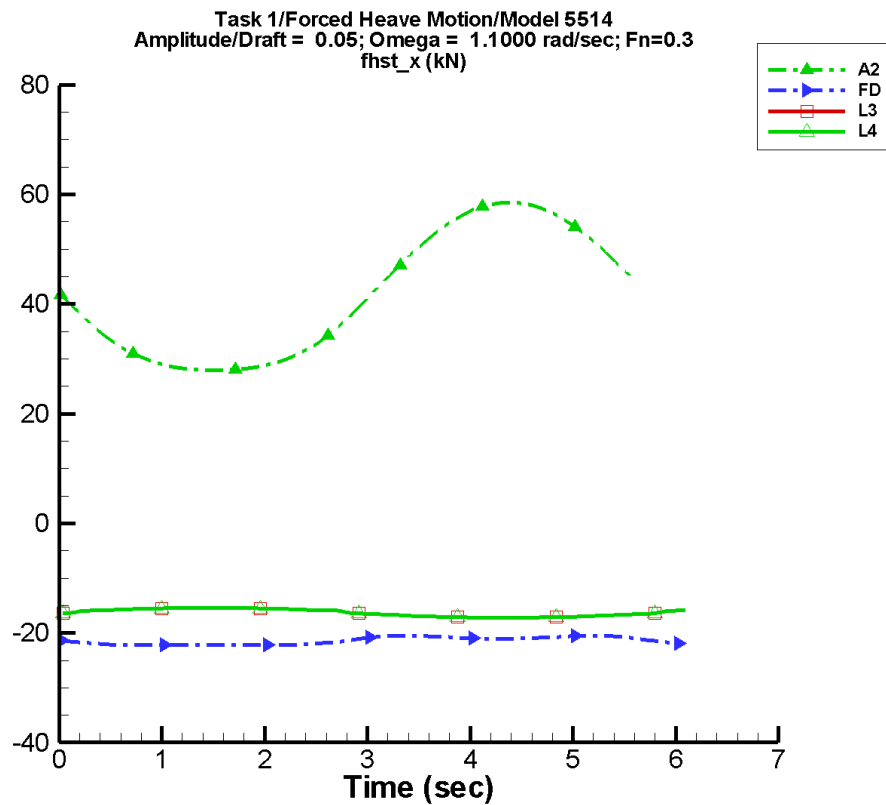
Table B–289. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	-47.6	141.	-5	103.	88
FD	-18.0	9.48	-1	3.23	-89
L1	—	—	—	—	—
L3	-14.0	11.3	0	2.39	-89
L4	-14.0	11.3	0	2.39	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–290. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-3.21E+03	84.5	-495.	75.3
FD	-25.2	-5.40	-25.0	-5.50
L1	—	—	—	—
L3	-24.8	-2.08	-24.7	-2.08
L4	-24.8	-2.08	-24.7	-2.08
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-146. Time history of  $F_x^{hst}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

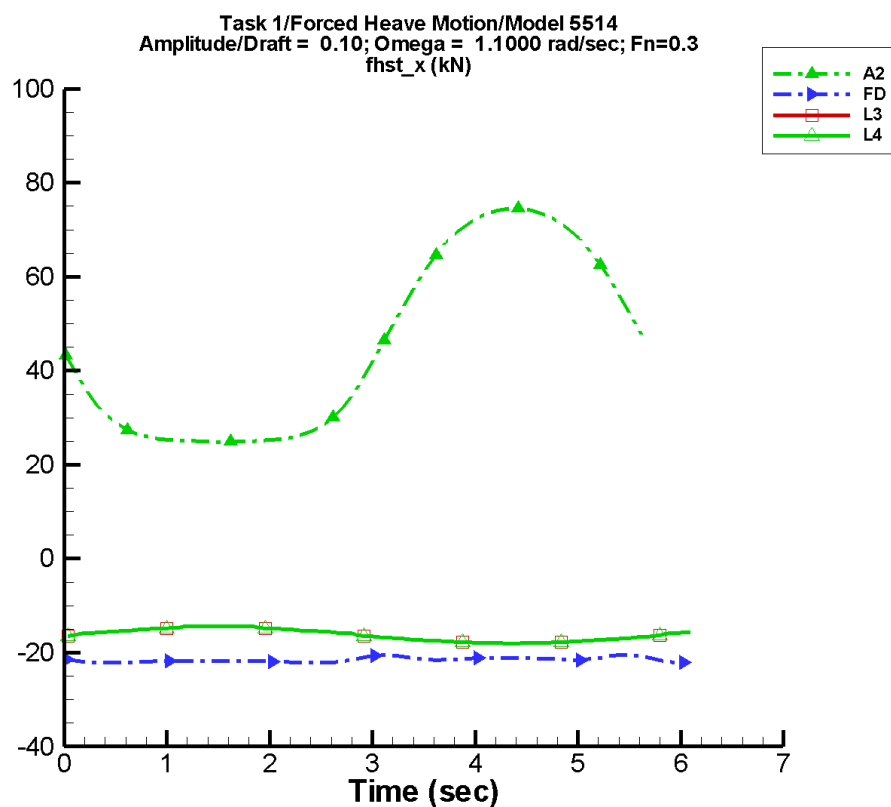
Table B–291. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	41.6	15.8	174	1.60	-104
FD	-21.4	0.834	-179	7.96E-02	86
L1	—	—	—	—	—
L3	-16.3	0.942	-4	1.70E-02	78
L4	-16.3	0.942	-4	1.70E-02	78
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–292. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	27.9	58.6	28.1	58.0
FD	-22.2	-20.5	-22.2	-20.6
L1	—	—	—	—
L3	-17.2	-15.4	-17.2	-15.4
L4	-17.2	-15.4	-17.2	-15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

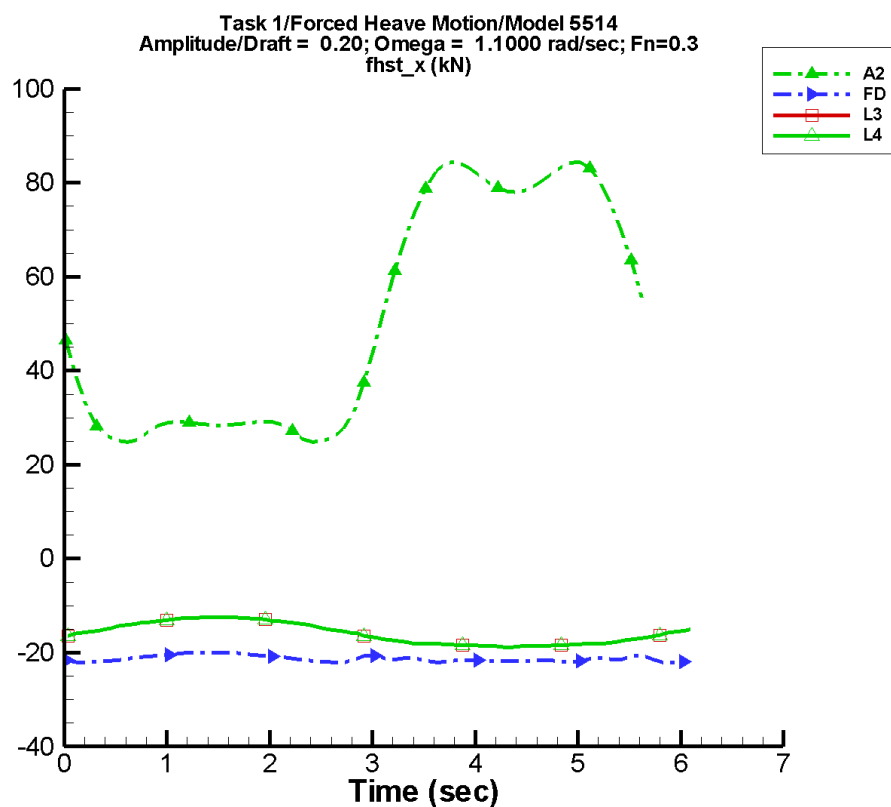
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	45.3	26.6	174	5.08	-104
FD	-21.5	0.421	-175	2.39E-02	-42
L1	—	—	—	—	—
L3	-16.3	1.80	-4	5.46E-02	-97
L4	-16.3	1.80	-4	5.46E-02	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–294. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.9	74.6	24.8	73.8
FD	-22.2	-20.5	-22.0	-21.0
L1	—	—	—	—
L3	-18.0	-14.3	-18.0	-14.3
L4	-18.0	-14.3	-18.0	-14.3
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-148. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

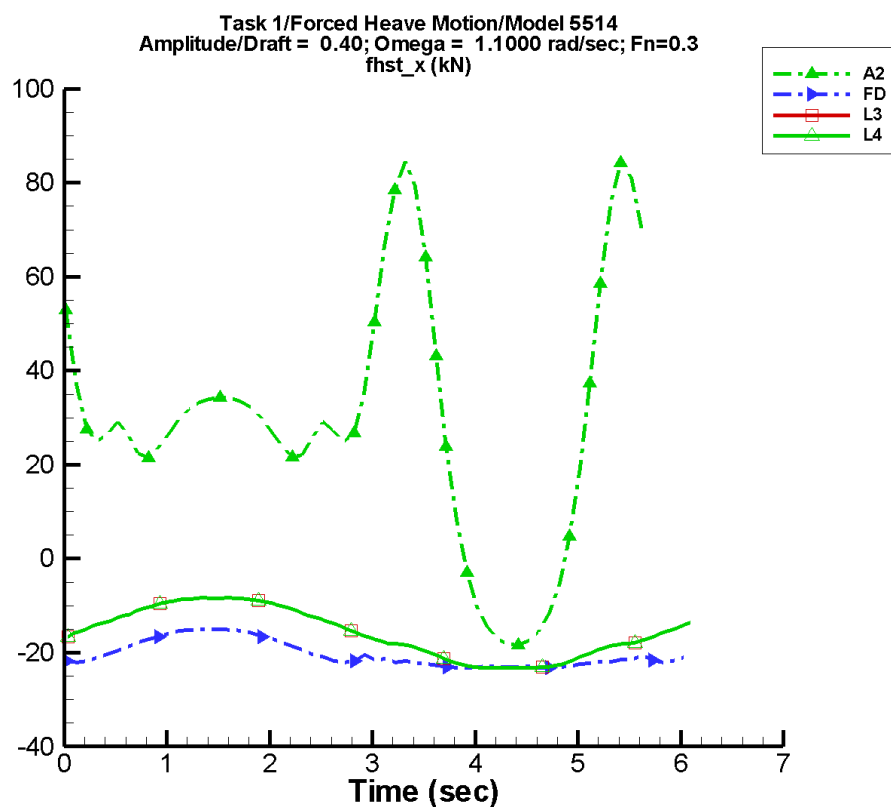
Table B–295. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	50.6	32.3	175	7.60	-105
FD	-21.3	0.593	-5	0.429	-86
L1	—	—	—	—	—
L3	-15.9	3.17	-4	0.368	-97
L4	-15.9	3.17	-4	0.368	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–296. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	24.8	84.4	26.5	81.8
FD	-22.1	-20.0	-21.8	-20.1
L1	—	—	—	—
L3	-18.8	-12.5	-18.7	-12.5
L4	-18.8	-12.5	-18.7	-12.5
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

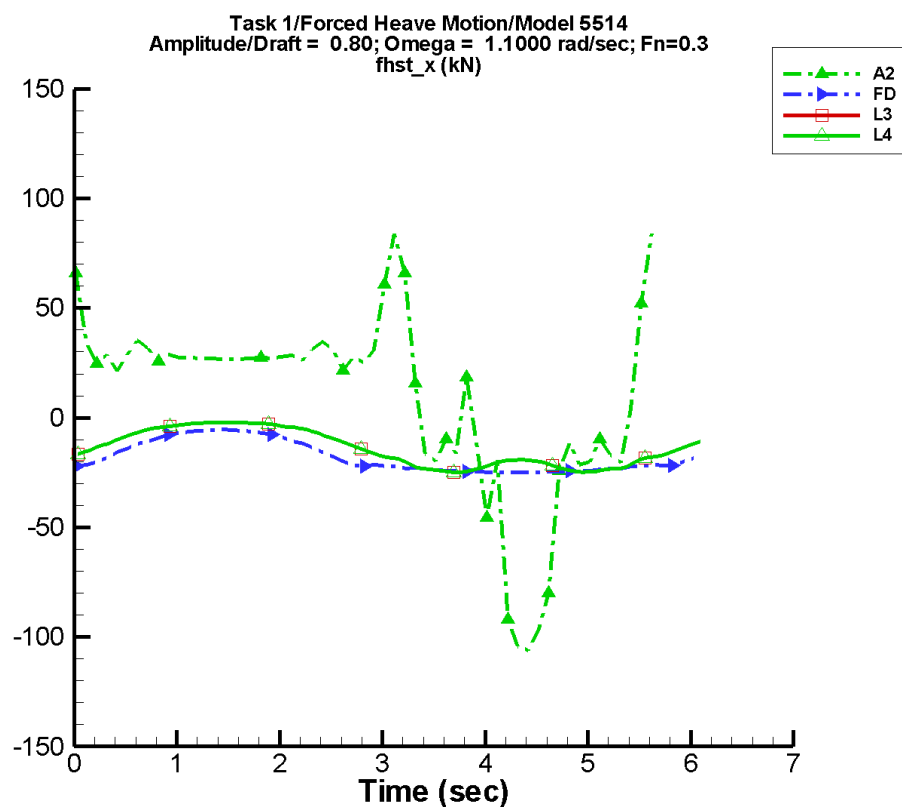
Table B–297. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	28.3	8.97	-24	20.9	82
FD	-20.4	3.59	-1	1.51	-89
L1	—	—	—	—	—
L3	-15.9	7.39	-4	0.202	-98
L4	-15.9	7.39	-4	0.202	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–298. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-18.3	84.5	-17.8	60.7
FD	-23.2	-15.0	-23.1	-15.2
L1	—	—	—	—
L3	-23.3	-8.27	-23.3	-8.37
L4	-23.3	-8.27	-23.3	-8.37
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-150. Time history of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

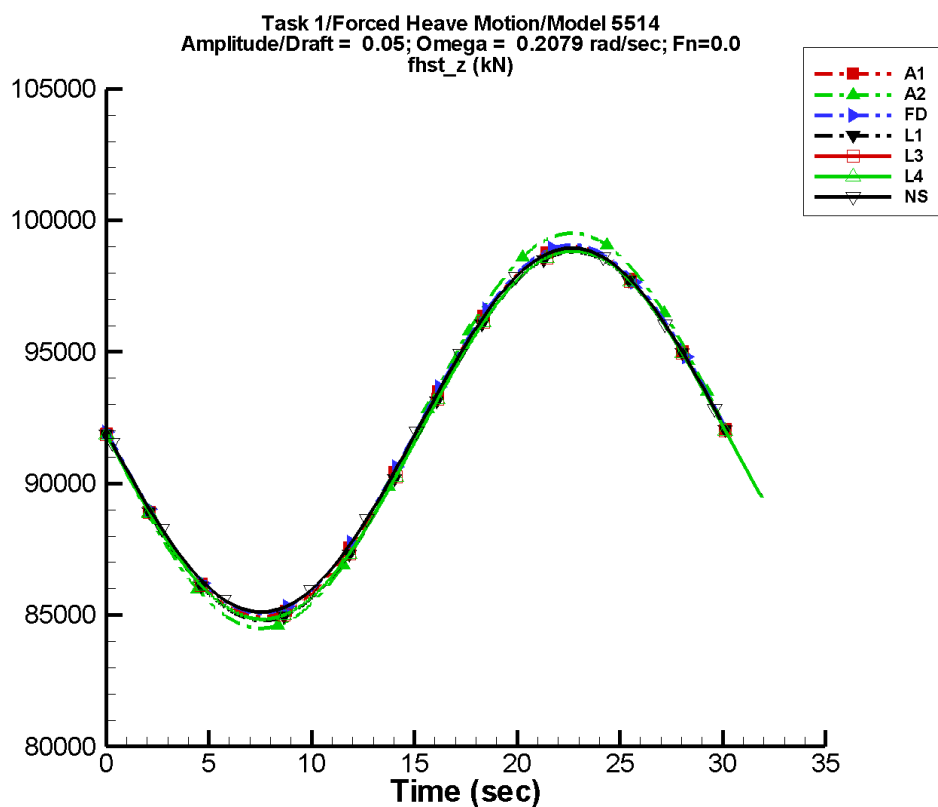
Table B–299. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	—	—	—	—	—
A2	8.78	37.5	-10	31.2	77
FD	-18.0	9.45	0	3.43	-90
L1	—	—	—	—	—
L3	-14.0	11.2	-4	2.06	-97
L4	-14.0	11.2	-4	2.06	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–300. Minimum and maximum of  $F_x^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-106.	84.1	-67.4	50.1
FD	-25.0	-5.40	-24.9	-5.92
L1	—	—	—	—
L3	-24.8	-2.08	-24.3	-2.14
L4	-24.8	-2.08	-24.3	-2.14
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–151. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

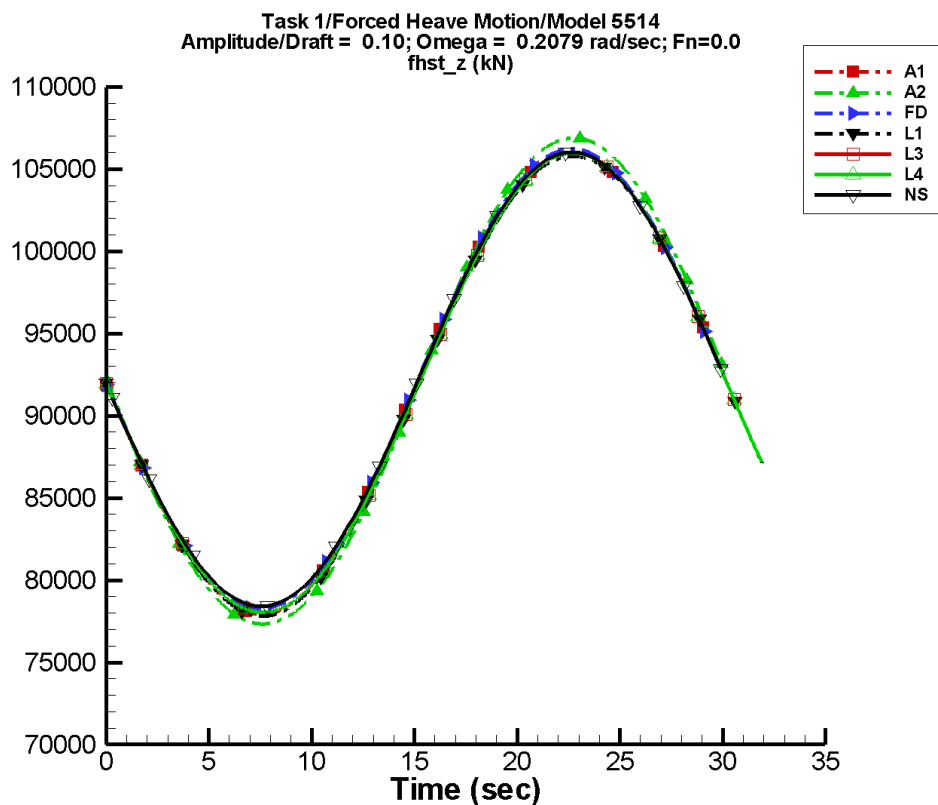
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	180	1.03E-02	125
A2	9.20E+04	7.52E+03	-180	18.9	-95
FD	9.20E+04	7.00E+03	-180	27.0	-90
L1	9.18E+04	7.01E+03	179	1.31E-02	-141
L3	9.18E+04	7.00E+03	179	27.0	-91
L4	9.18E+04	7.00E+03	179	27.0	-91
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	-180	32.9	-90

Table B–302. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.49E+04	9.90E+04
A2	8.45E+04	9.95E+04	8.45E+04	9.95E+04
FD	8.51E+04	9.91E+04	8.51E+04	9.91E+04
L1	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L3	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.48E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–152. Time history of  $F_z^{hst}$  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 5514 scaled to  $L = 142$  m.

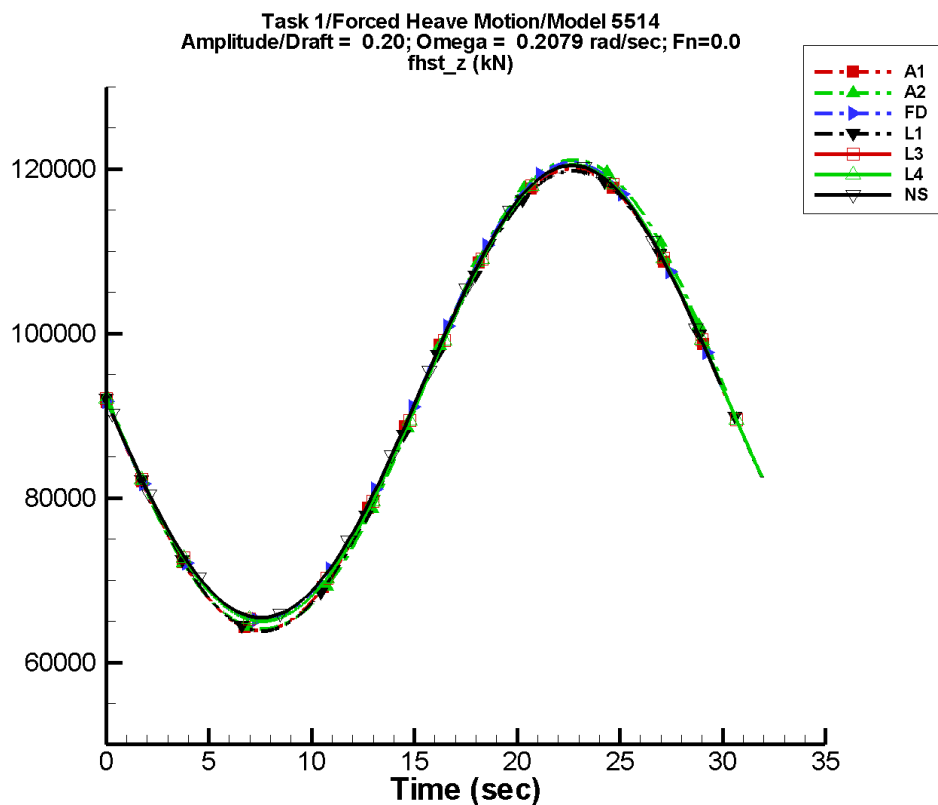
Table B–303. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	180	2.44E-02	149
A2	9.20E+04	1.48E+04	179	80.1	-96
FD	9.21E+04	1.40E+04	-180	112.	-90
L1	9.18E+04	1.40E+04	179	1.57E-02	-169
L3	9.19E+04	1.40E+04	179	112.	-92
L4	9.19E+04	1.40E+04	179	112.	-92
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–304. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.79E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.74E+04	1.07E+05
FD	7.83E+04	1.06E+05	7.83E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.78E+04	1.06E+05
L3	7.80E+04	1.06E+05	7.81E+04	1.06E+05
L4	7.80E+04	1.06E+05	7.81E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.85E+04	1.06E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-153. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

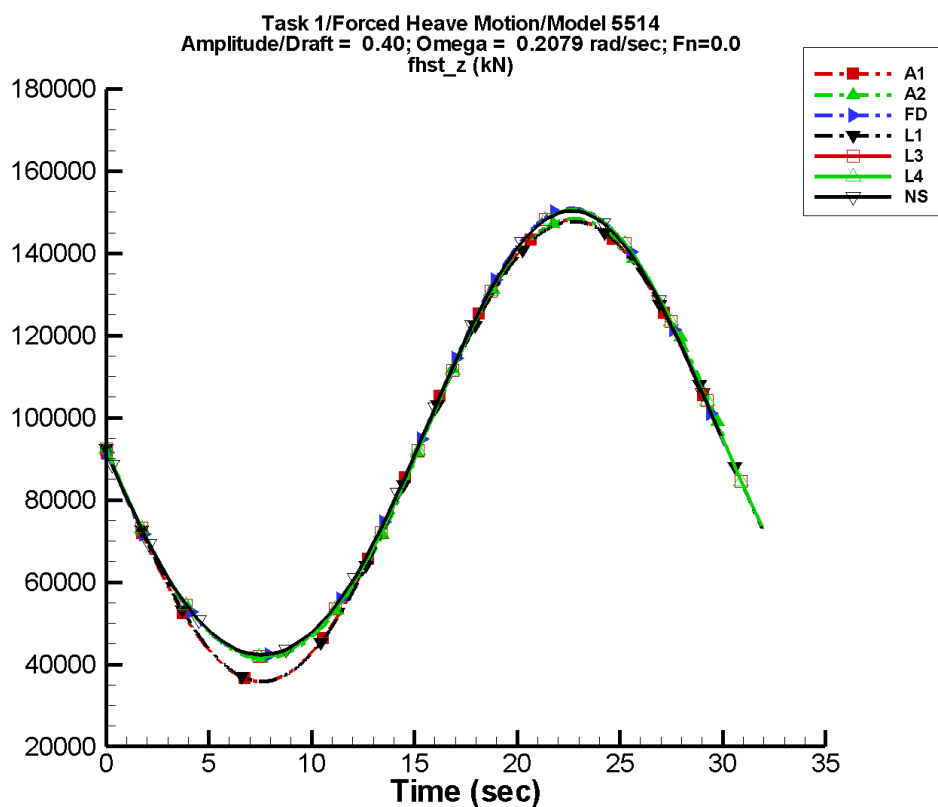
Table B–305. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	180	2.15E-02	146
A2	9.23E+04	2.89E+04	179	358.	-97
FD	9.25E+04	2.79E+04	-180	494.	-89
L1	9.18E+04	2.80E+04	179	2.84E-02	-147
L3	9.23E+04	2.78E+04	179	502.	-92
L4	9.23E+04	2.78E+04	179	502.	-92
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	-180	488.	-90

Table B–306. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.39E+04	1.20E+05
A2	6.41E+04	1.21E+05	6.41E+04	1.21E+05
FD	6.52E+04	1.21E+05	6.52E+04	1.21E+05
L1	6.38E+04	1.20E+05	6.38E+04	1.20E+05
L3	6.50E+04	1.21E+05	6.50E+04	1.21E+05
L4	6.50E+04	1.21E+05	6.50E+04	1.21E+05
NF	—	—	—	—
NS	6.54E+04	1.20E+05	6.57E+04	1.20E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to L = 142 m.

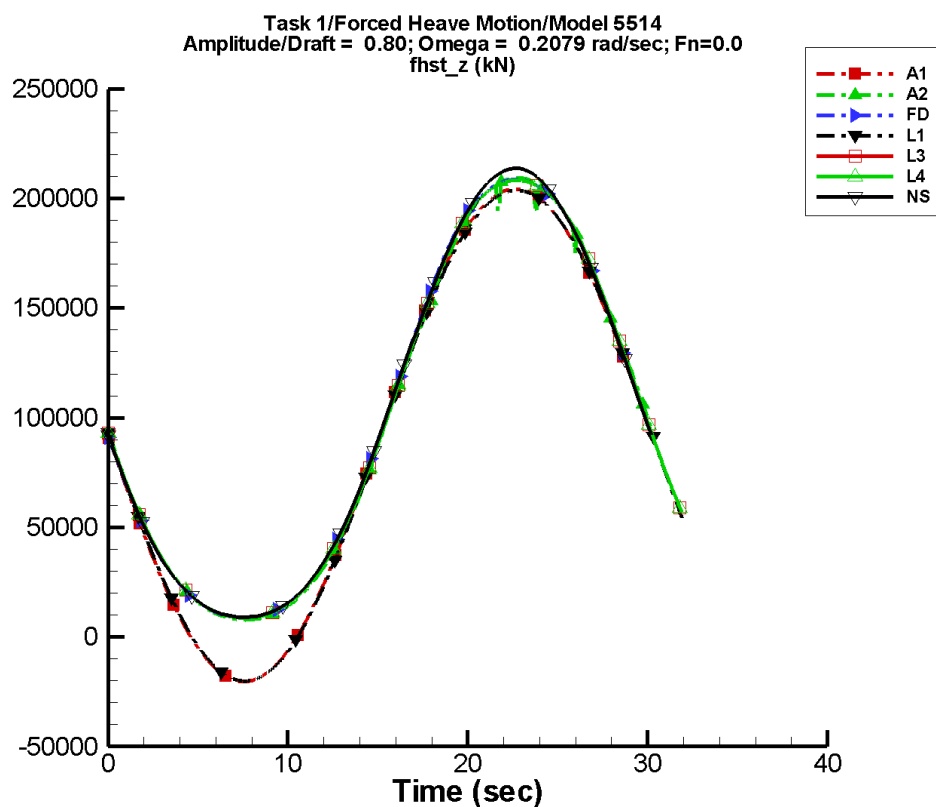
Table B–307. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	180	5.60E-02	153
A2	9.33E+04	5.44E+04	179	1.66E+03	-96
FD	9.42E+04	5.48E+04	-180	2.32E+03	-89
L1	9.18E+04	5.60E+04	179	5.32E-03	66
L3	9.39E+04	5.47E+04	179	2.36E+03	-92
L4	9.39E+04	5.47E+04	179	2.36E+03	-92
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	-180	2.19E+03	-90

Table B–308. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.58E+04	1.48E+05
A2	4.14E+04	1.48E+05	4.15E+04	1.48E+05
FD	4.21E+04	1.51E+05	4.21E+04	1.51E+05
L1	3.58E+04	1.48E+05	3.59E+04	1.48E+05
L3	4.20E+04	1.51E+05	4.20E+04	1.51E+05
L4	4.20E+04	1.51E+05	4.20E+04	1.51E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-155. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

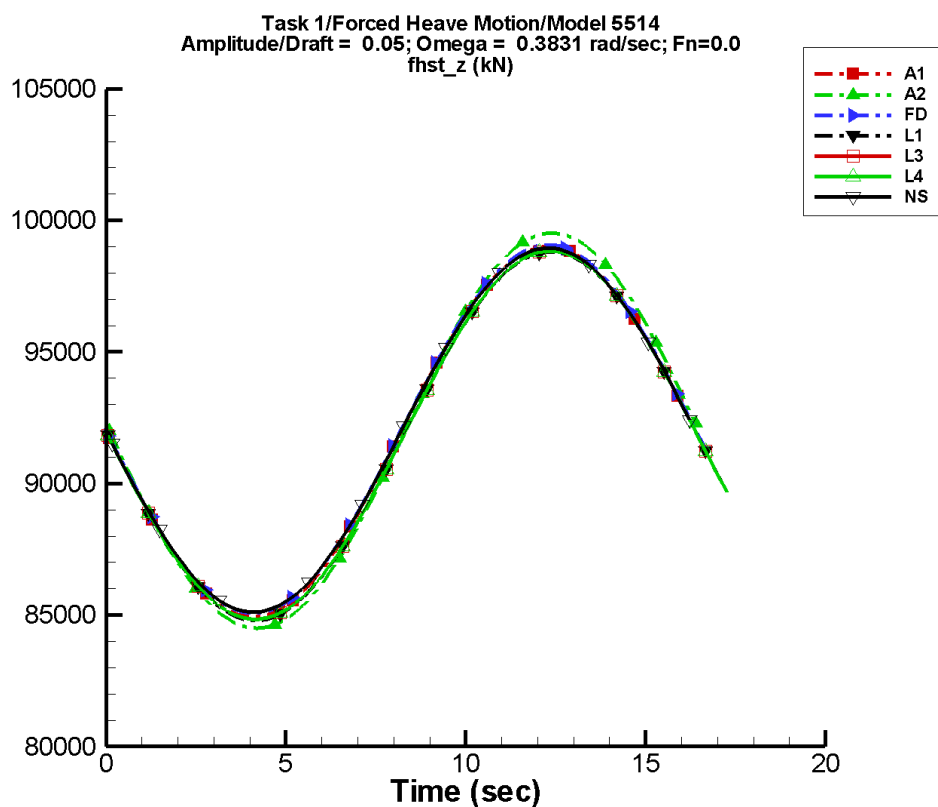
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	180	0.113	157
A2	9.97E+04	1.03E+05	179	8.83E+03	-93
FD	1.01E+05	1.03E+05	-180	9.02E+03	-88
L1	9.18E+04	1.12E+05	179	1.17E-02	-137
L3	1.00E+05	1.03E+05	179	9.21E+03	-92
L4	1.00E+05	1.03E+05	179	9.21E+03	-92
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–310. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-2.04E+04	2.04E+05
A2	7.81E+03	2.09E+05	7.77E+03	2.10E+05
FD	8.79E+03	2.09E+05	8.84E+03	2.09E+05
L1	-2.01E+04	2.04E+05	-2.01E+04	2.04E+05
L3	8.71E+03	2.08E+05	8.73E+03	2.08E+05
L4	8.71E+03	2.08E+05	8.73E+03	2.08E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–156. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

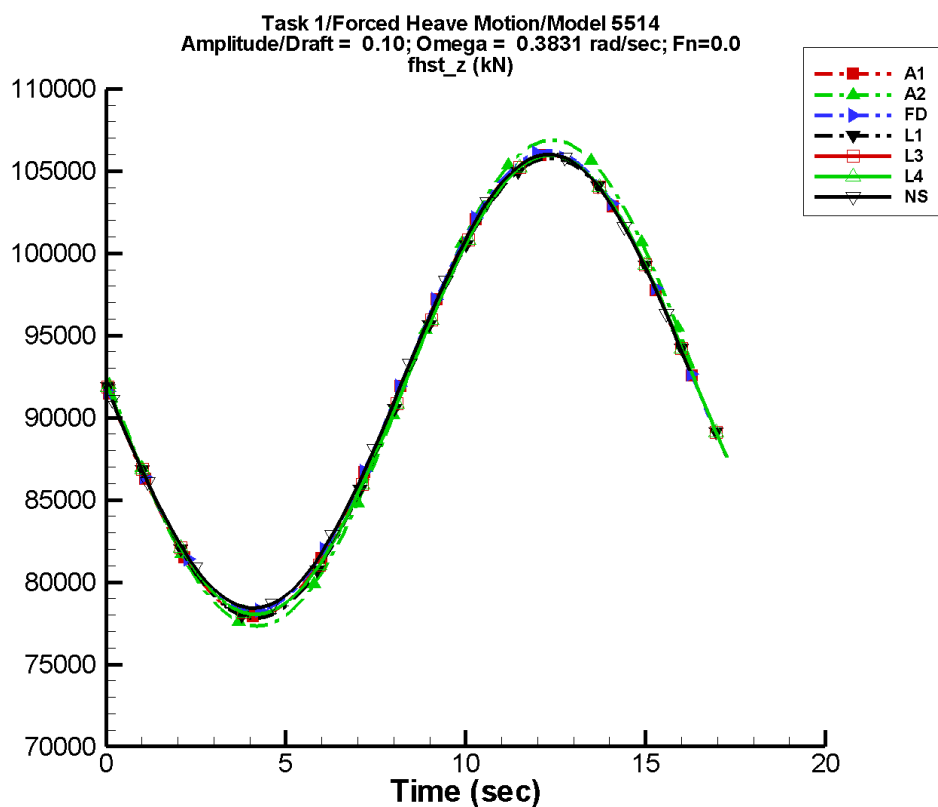
Table B–311. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	-180	7.46E-03	110
A2	9.20E+04	7.52E+03	178	18.9	-99
FD	9.20E+04	7.00E+03	180	27.0	-90
L1	9.18E+04	7.00E+03	179	1.80E-02	-160
L3	9.18E+04	7.00E+03	179	27.0	-93
L4	9.18E+04	7.00E+03	179	27.0	-93
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	180	32.9	-90

Table B–312. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.49E+04	9.90E+04
A2	8.45E+04	9.95E+04	8.45E+04	9.95E+04
FD	8.51E+04	9.91E+04	8.51E+04	9.90E+04
L1	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L3	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.48E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–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 5514 scaled to  $L = 142$  m.

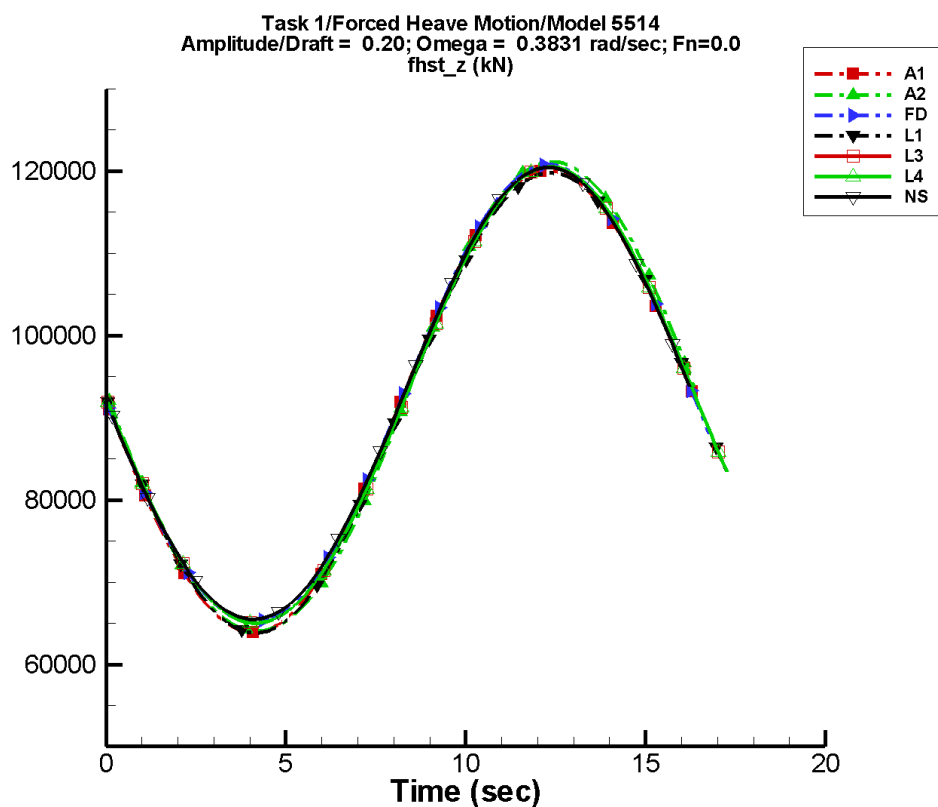
Table B–313. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	-180	2.51E-03	31
A2	9.20E+04	1.48E+04	178	80.5	-98
FD	9.21E+04	1.40E+04	-180	112.	-90
L1	9.18E+04	1.40E+04	179	1.77E-02	163
L3	9.19E+04	1.40E+04	179	111.	-93
L4	9.19E+04	1.40E+04	179	111.	-93
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–314. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.79E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.73E+04	1.07E+05
FD	7.83E+04	1.06E+05	7.83E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.78E+04	1.06E+05
L3	7.80E+04	1.06E+05	7.81E+04	1.06E+05
L4	7.80E+04	1.06E+05	7.81E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.86E+04	1.06E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-158. Time history 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 5514 scaled to  $L = 142$  m.

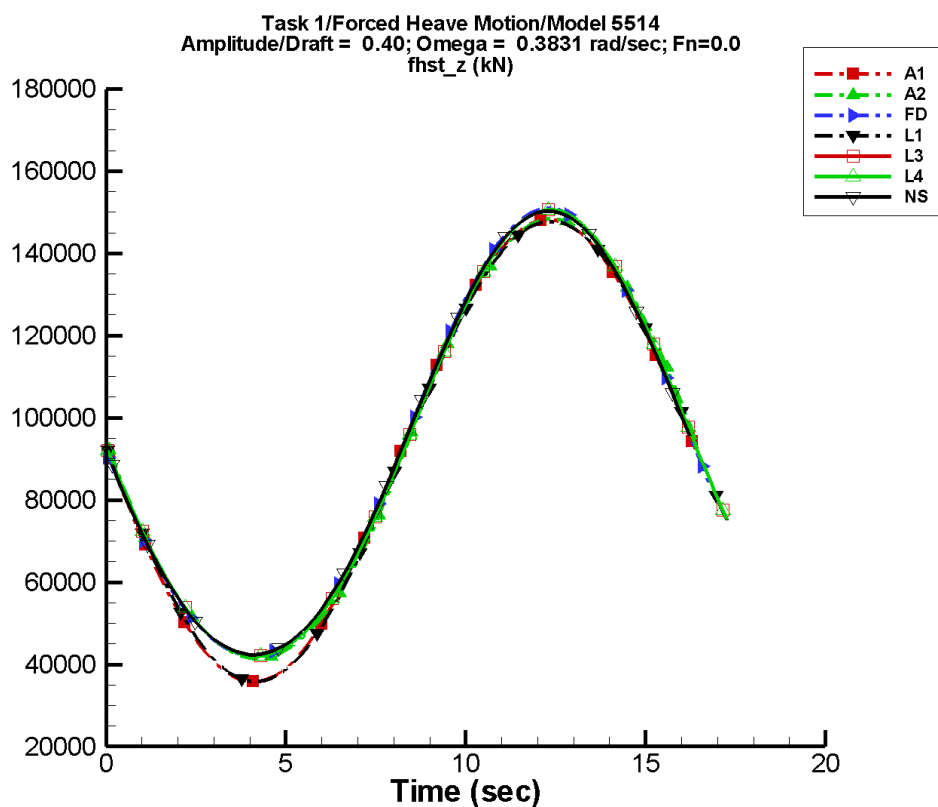
Table B–315. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	-180	1.33E-02	23
A2	9.23E+04	2.89E+04	178	360.	-99
FD	9.25E+04	2.79E+04	-180	491.	-90
L1	9.18E+04	2.80E+04	179	1.85E-02	-170
L3	9.23E+04	2.78E+04	179	491.	-93
L4	9.23E+04	2.78E+04	179	491.	-93
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	180	488.	-90

Table B–316. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.38E+04	1.20E+05
A2	6.41E+04	1.21E+05	6.40E+04	1.21E+05
FD	6.52E+04	1.21E+05	6.53E+04	1.21E+05
L1	6.38E+04	1.20E+05	6.39E+04	1.20E+05
L3	6.50E+04	1.21E+05	6.50E+04	1.20E+05
L4	6.50E+04	1.21E+05	6.50E+04	1.20E+05
NF	—	—	—	—
NS	6.55E+04	1.20E+05	6.57E+04	1.20E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-159. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

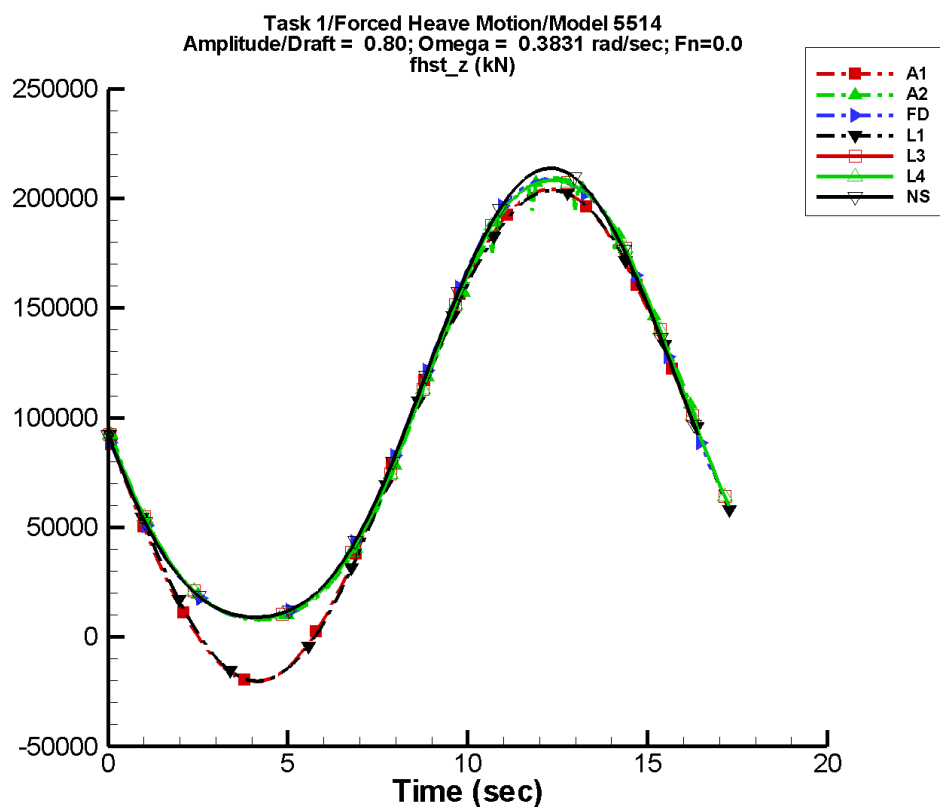
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	-180	3.63E-03	148
A2	9.33E+04	5.43E+04	178	1.66E+03	-98
FD	9.42E+04	5.48E+04	-180	2.30E+03	-89
L1	9.18E+04	5.60E+04	179	3.23E-02	-122
L3	9.39E+04	5.47E+04	179	2.29E+03	-94
L4	9.39E+04	5.47E+04	179	2.29E+03	-94
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	180	2.18E+03	-90

Table B–318. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.56E+04	1.48E+05
A2	4.14E+04	1.48E+05	4.14E+04	1.48E+05
FD	4.21E+04	1.51E+05	4.23E+04	1.51E+05
L1	3.58E+04	1.48E+05	3.59E+04	1.48E+05
L3	4.20E+04	1.51E+05	4.20E+04	1.50E+05
L4	4.20E+04	1.51E+05	4.20E+04	1.50E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-160. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

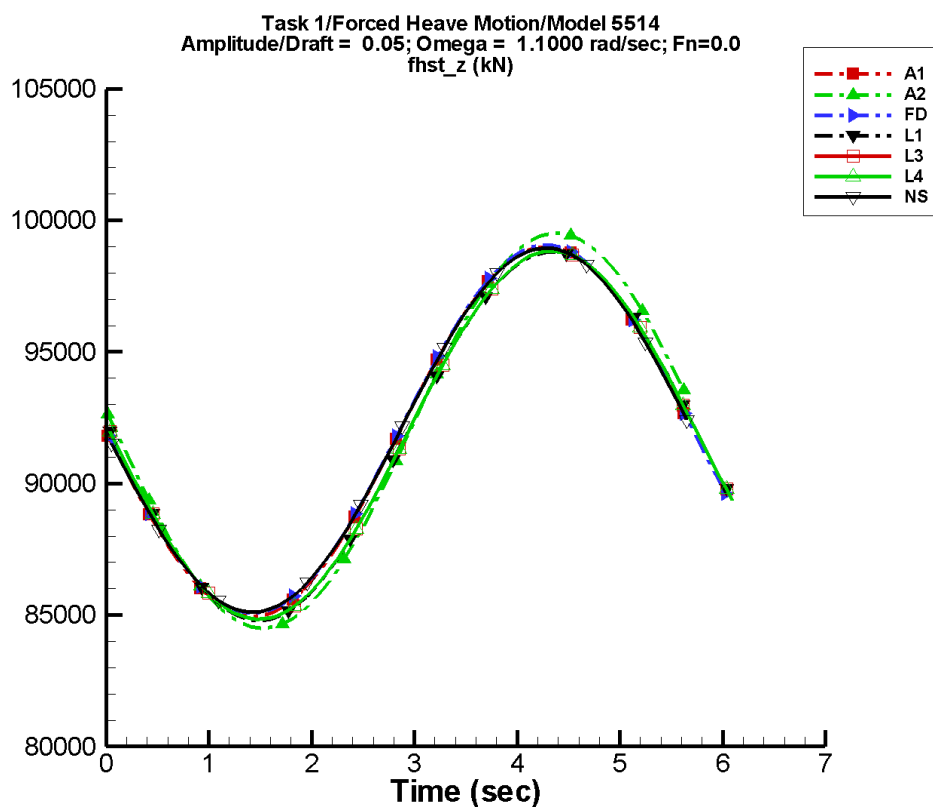
Table B–319. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	-180	8.91E-03	145
A2	9.97E+04	1.03E+05	178	8.81E+03	-96
FD	1.01E+05	1.03E+05	-180	8.78E+03	-89
L1	9.18E+04	1.12E+05	179	3.60E-02	-77
L3	1.00E+05	1.03E+05	179	8.80E+03	-94
L4	1.00E+05	1.03E+05	179	8.80E+03	-94
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–320. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-2.07E+04	2.04E+05
A2	7.81E+03	2.09E+05	7.59E+03	2.09E+05
FD	8.79E+03	2.09E+05	8.95E+03	2.08E+05
L1	-2.01E+04	2.04E+05	-2.00E+04	2.04E+05
L3	8.72E+03	2.08E+05	8.78E+03	2.08E+05
L4	8.72E+03	2.08E+05	8.78E+03	2.08E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-161. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

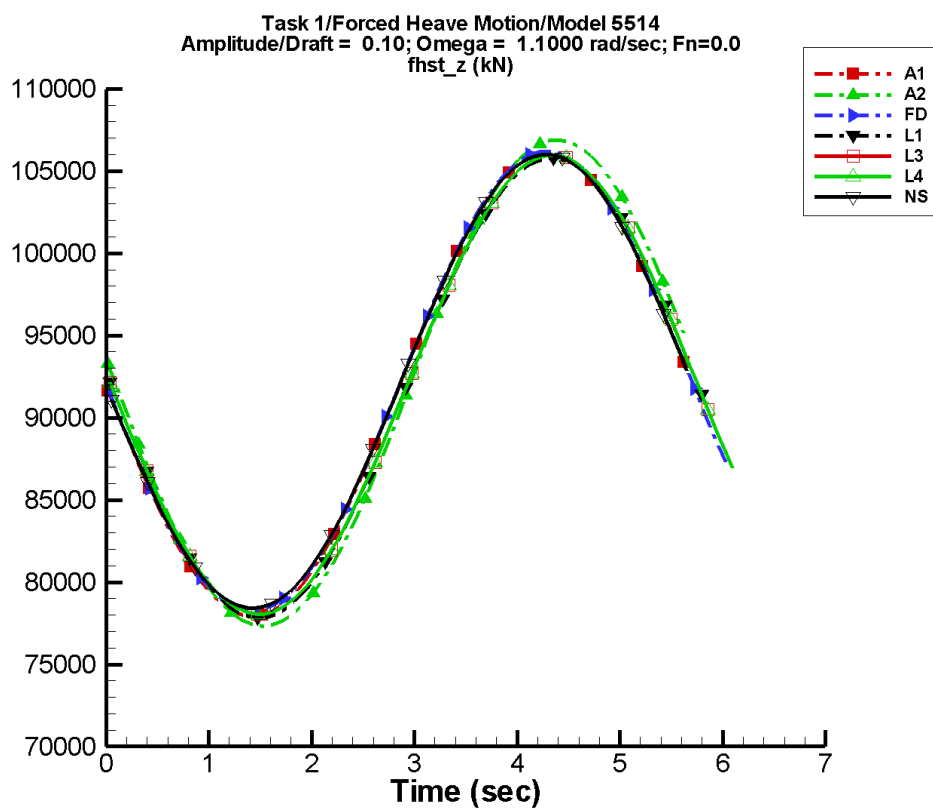
Table B–321. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	180	1.36E-02	-178
A2	9.20E+04	7.52E+03	174	18.0	-108
FD	9.20E+04	7.00E+03	180	27.0	-90
L1	9.18E+04	7.00E+03	176	1.02E-02	-32
L3	9.18E+04	7.00E+03	176	27.0	-98
L4	9.18E+04	7.00E+03	176	27.0	-98
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	180	32.9	-90

Table B–322. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.51E+04	9.88E+04
A2	8.45E+04	9.95E+04	8.47E+04	9.93E+04
FD	8.51E+04	9.91E+04	8.53E+04	9.88E+04
L1	8.48E+04	9.88E+04	8.49E+04	9.87E+04
L3	8.48E+04	9.88E+04	8.49E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.49E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-162. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

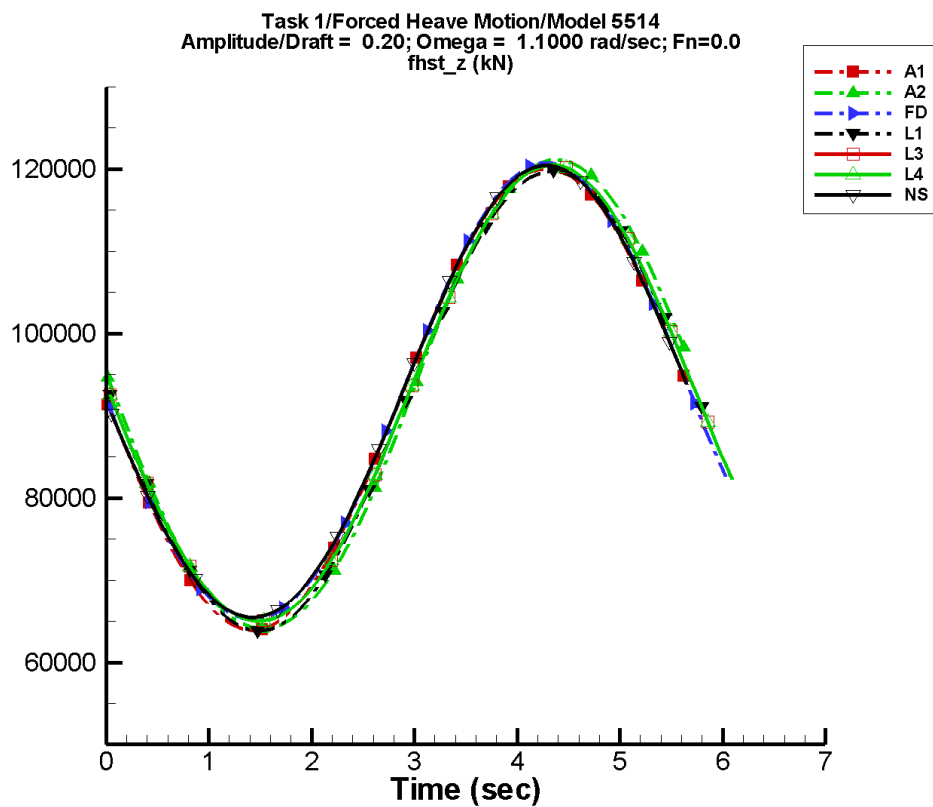
Table B–323. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	180	2.11E-02	-176
A2	9.20E+04	1.48E+04	174	77.1	-107
FD	9.21E+04	1.40E+04	180	113.	-90
L1	9.18E+04	1.40E+04	176	2.78E-02	-180
L3	9.19E+04	1.40E+04	176	112.	-98
L4	9.19E+04	1.40E+04	176	112.	-98
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–324. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.83E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.78E+04	1.06E+05
FD	7.83E+04	1.06E+05	7.87E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.80E+04	1.06E+05
L3	7.81E+04	1.06E+05	7.82E+04	1.06E+05
L4	7.81E+04	1.06E+05	7.82E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.86E+04	1.06E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-163. Time history 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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

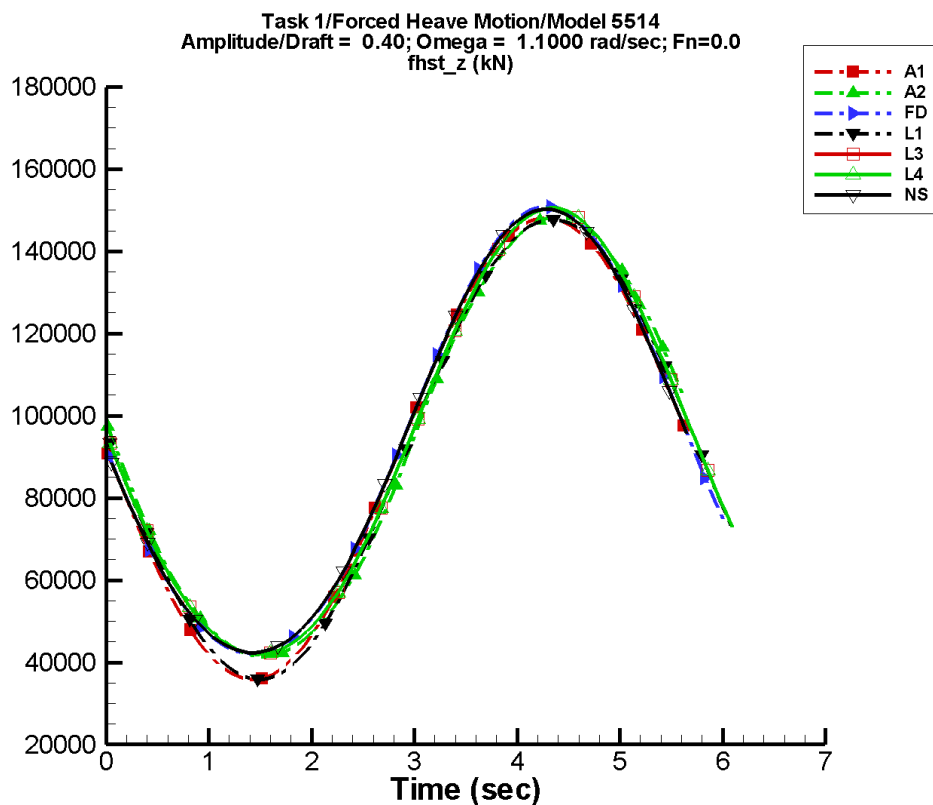
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	180	5.13E-02	172
A2	9.23E+04	2.89E+04	174	343.	-108
FD	9.25E+04	2.79E+04	-180	498.	-90
L1	9.18E+04	2.80E+04	176	4.39E-02	141
L3	9.23E+04	2.78E+04	176	502.	-98
L4	9.23E+04	2.78E+04	176	502.	-98
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	180	488.	-90

Table B–326. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.46E+04	1.19E+05
A2	6.41E+04	1.21E+05	6.49E+04	1.20E+05
FD	6.52E+04	1.21E+05	6.60E+04	1.20E+05
L1	6.38E+04	1.20E+05	6.41E+04	1.19E+05
L3	6.50E+04	1.21E+05	6.53E+04	1.20E+05
L4	6.50E+04	1.21E+05	6.53E+04	1.20E+05
NF	—	—	—	—
NS	6.55E+04	1.20E+05	6.57E+04	1.20E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-164. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

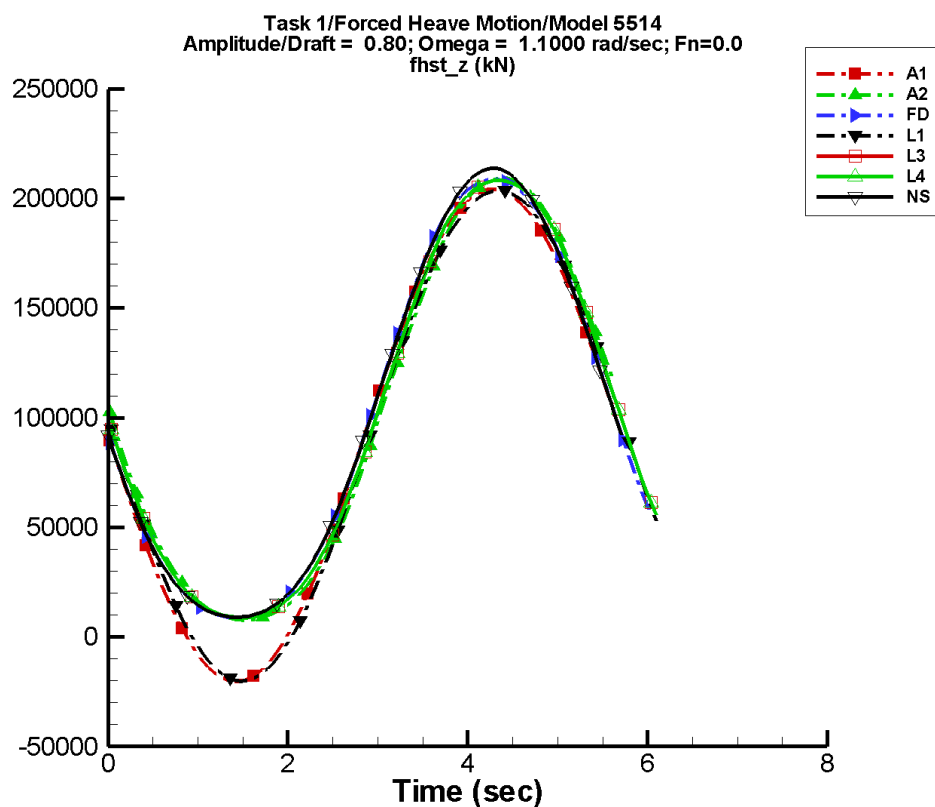
Table B–327. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	180	0.105	173
A2	9.33E+04	5.44E+04	174	1.61E+03	-106
FD	9.42E+04	5.48E+04	-180	2.35E+03	-90
L1	9.18E+04	5.59E+04	176	3.45E-02	97
L3	9.39E+04	5.47E+04	176	2.37E+03	-98
L4	9.39E+04	5.47E+04	176	2.37E+03	-98
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	180	2.18E+03	-90

Table B–328. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.72E+04	1.46E+05
A2	4.14E+04	1.48E+05	4.28E+04	1.47E+05
FD	4.21E+04	1.51E+05	4.35E+04	1.49E+05
L1	3.59E+04	1.48E+05	3.65E+04	1.47E+05
L3	4.20E+04	1.51E+05	4.25E+04	1.50E+05
L4	4.20E+04	1.51E+05	4.25E+04	1.50E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-165. Time history 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 5514 scaled to  $L = 142$  m.

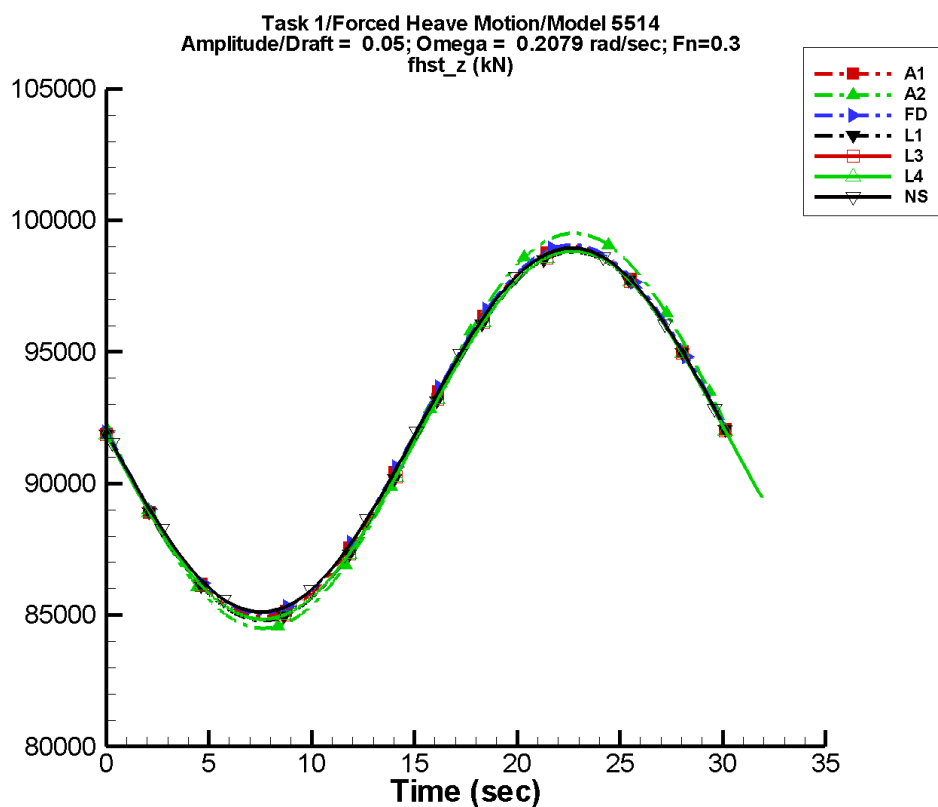
Table B–329. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	180	0.193	168
A2	1.00E+05	1.04E+05	174	8.99E+03	-104
FD	1.01E+05	1.03E+05	-180	9.29E+03	-90
L1	9.18E+04	1.12E+05	176	2.22E-02	134
L3	1.00E+05	1.03E+05	176	9.34E+03	-98
L4	1.00E+05	1.03E+05	176	9.34E+03	-98
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–330. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-1.77E+04	2.01E+05
A2	7.81E+03	2.09E+05	9.39E+03	2.06E+05
FD	8.79E+03	2.09E+05	1.03E+04	2.06E+05
L1	-2.01E+04	2.04E+05	-1.88E+04	2.02E+05
L3	8.73E+03	2.08E+05	9.26E+03	2.07E+05
L4	8.73E+03	2.08E+05	9.26E+03	2.07E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-166. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

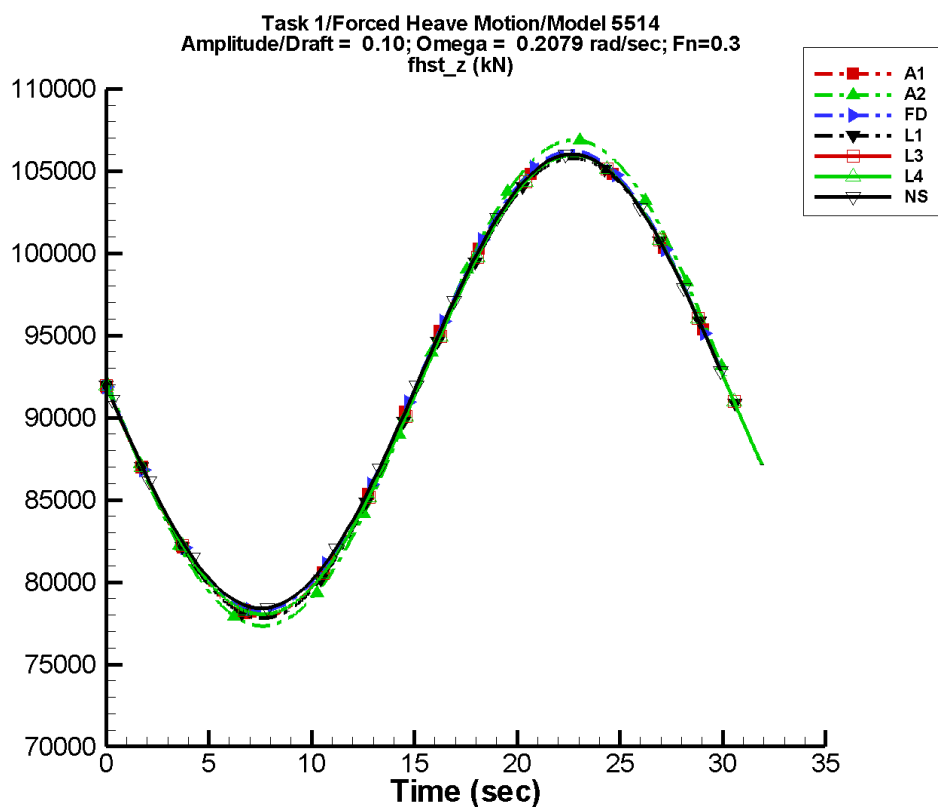
Table B–331. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	180	1.03E-02	125
A2	9.20E+04	7.52E+03	179	18.8	-97
FD	9.20E+04	7.00E+03	-180	27.0	-90
L1	9.18E+04	7.01E+03	179	1.31E-02	-141
L3	9.18E+04	7.00E+03	179	27.0	-91
L4	9.18E+04	7.00E+03	179	27.0	-91
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	-180	32.9	-90

Table B–332. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.49E+04	9.90E+04
A2	8.45E+04	9.95E+04	8.45E+04	9.95E+04
FD	8.51E+04	9.91E+04	8.51E+04	9.91E+04
L1	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L3	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.48E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

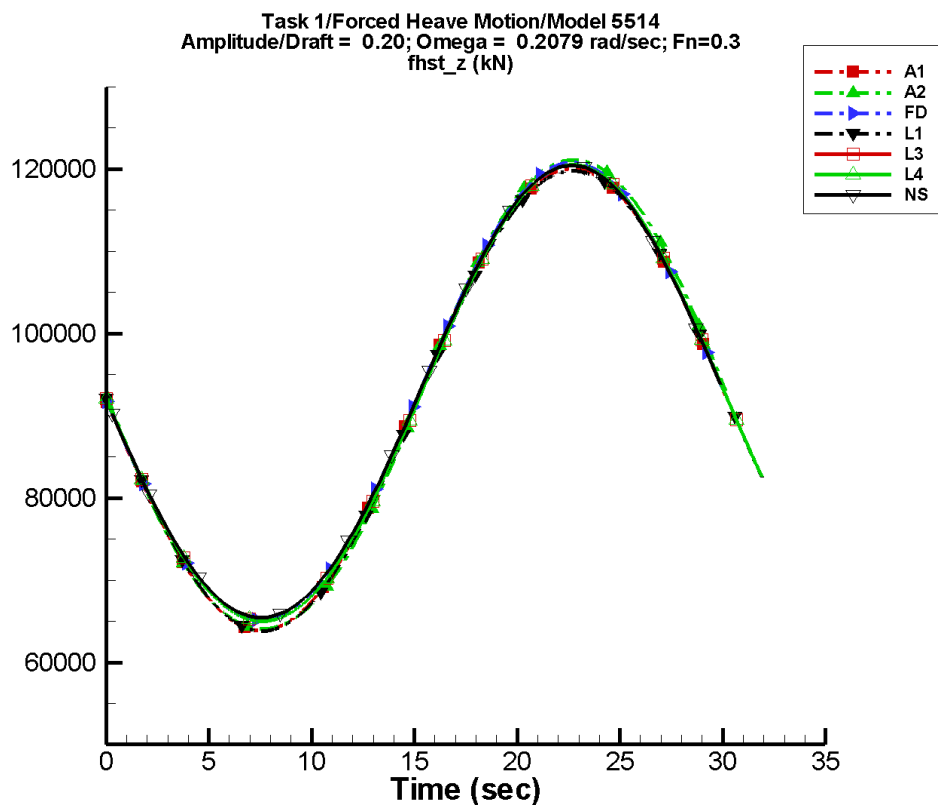
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	180	2.44E-02	149
A2	9.20E+04	1.48E+04	179	80.1	-96
FD	9.21E+04	1.40E+04	-180	112.	-90
L1	9.18E+04	1.40E+04	179	1.57E-02	-169
L3	9.19E+04	1.40E+04	179	112.	-92
L4	9.19E+04	1.40E+04	179	112.	-92
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–334. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.79E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.74E+04	1.07E+05
FD	7.83E+04	1.06E+05	7.83E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.78E+04	1.06E+05
L3	7.80E+04	1.06E+05	7.81E+04	1.06E+05
L4	7.80E+04	1.06E+05	7.81E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.85E+04	1.06E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-168. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

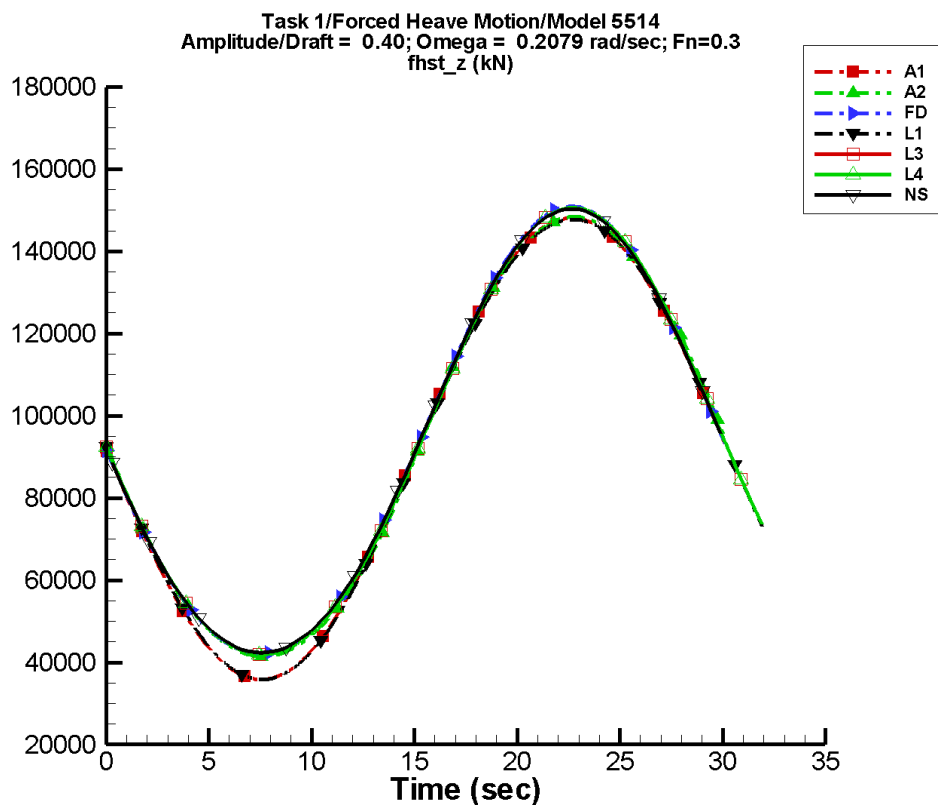
Table B–335. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	180	2.15E-02	146
A2	9.23E+04	2.89E+04	179	358.	-97
FD	9.25E+04	2.79E+04	-180	494.	-89
L1	9.18E+04	2.80E+04	179	2.84E-02	-147
L3	9.23E+04	2.78E+04	179	502.	-92
L4	9.23E+04	2.78E+04	179	502.	-92
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	-180	488.	-90

Table B–336. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.39E+04	1.20E+05
A2	6.41E+04	1.21E+05	6.41E+04	1.21E+05
FD	6.52E+04	1.21E+05	6.52E+04	1.21E+05
L1	6.38E+04	1.20E+05	6.38E+04	1.20E+05
L3	6.50E+04	1.21E+05	6.50E+04	1.21E+05
L4	6.50E+04	1.21E+05	6.50E+04	1.21E+05
NF	—	—	—	—
NS	6.54E+04	1.20E+05	6.57E+04	1.20E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-169. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

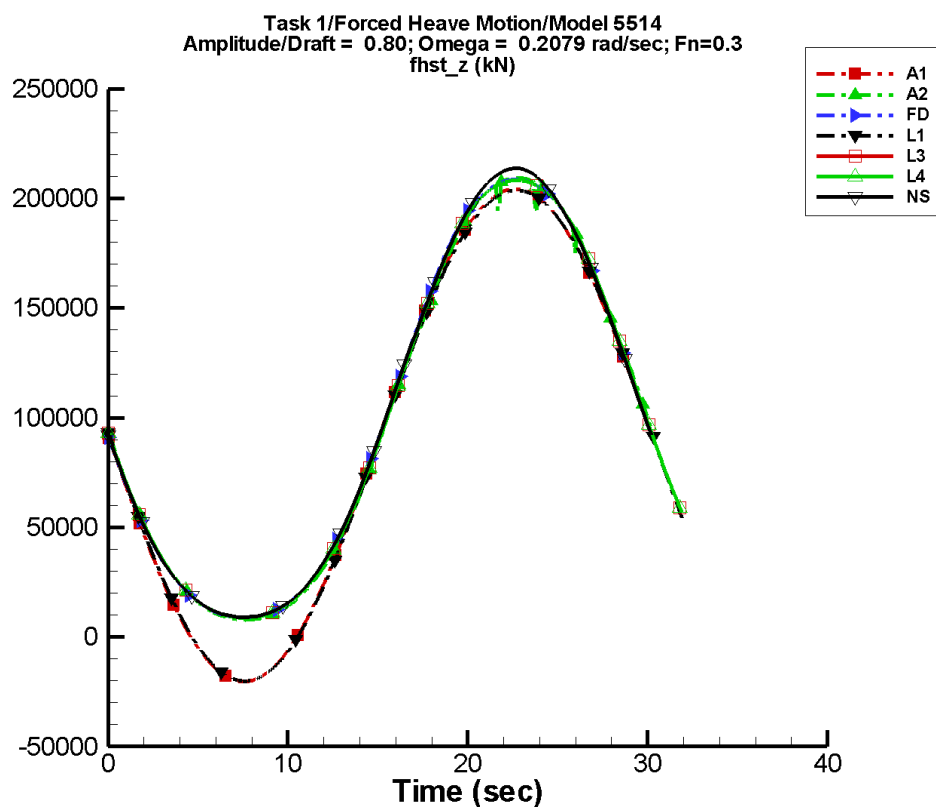
Table B–337. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	180	5.60E-02	153
A2	9.33E+04	5.44E+04	179	1.66E+03	-96
FD	9.42E+04	5.48E+04	-180	2.32E+03	-89
L1	9.18E+04	5.60E+04	179	5.32E-03	66
L3	9.39E+04	5.47E+04	179	2.36E+03	-92
L4	9.39E+04	5.47E+04	179	2.36E+03	-92
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	-180	2.19E+03	-90

Table B–338. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.58E+04	1.48E+05
A2	4.14E+04	1.48E+05	4.15E+04	1.48E+05
FD	4.21E+04	1.51E+05	4.21E+04	1.51E+05
L1	3.58E+04	1.48E+05	3.59E+04	1.48E+05
L3	4.20E+04	1.51E+05	4.20E+04	1.51E+05
L4	4.20E+04	1.51E+05	4.20E+04	1.51E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

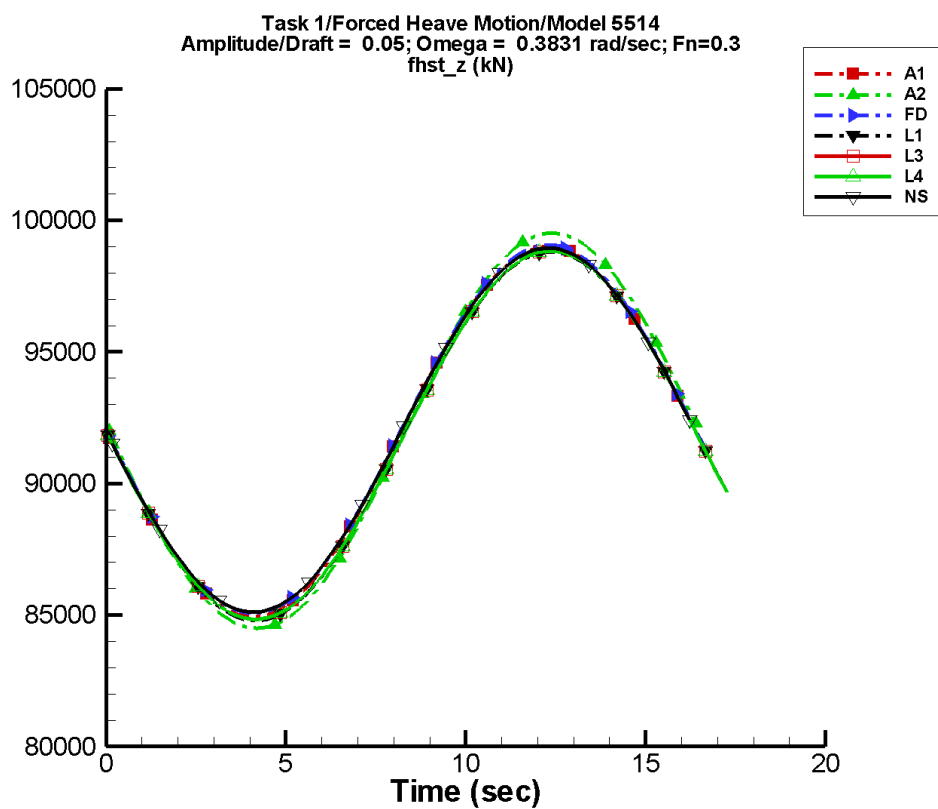
Table B–339. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	180	0.113	157
A2	9.97E+04	1.03E+05	179	8.83E+03	-93
FD	1.01E+05	1.03E+05	-180	9.02E+03	-88
L1	9.18E+04	1.12E+05	179	1.17E-02	-137
L3	1.00E+05	1.03E+05	179	9.21E+03	-92
L4	1.00E+05	1.03E+05	179	9.21E+03	-92
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–340. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-2.04E+04	2.04E+05
A2	7.81E+03	2.09E+05	7.77E+03	2.10E+05
FD	8.79E+03	2.09E+05	8.84E+03	2.09E+05
L1	-2.01E+04	2.04E+05	-2.01E+04	2.04E+05
L3	8.71E+03	2.08E+05	8.73E+03	2.08E+05
L4	8.71E+03	2.08E+05	8.73E+03	2.08E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-171. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

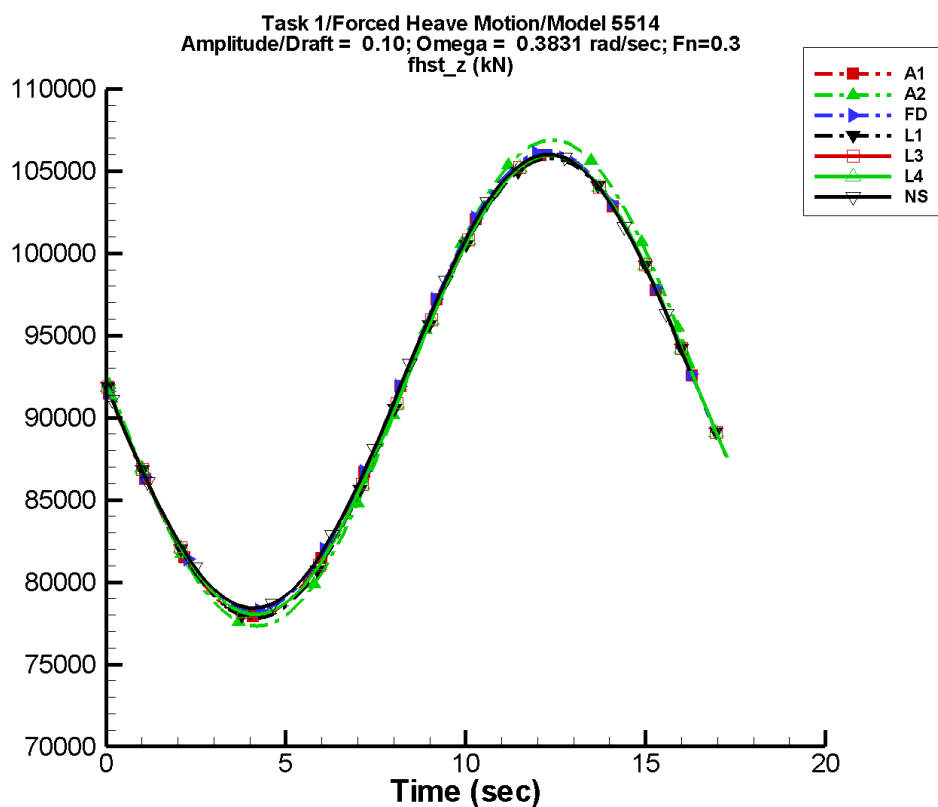
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	-180	7.46E-03	110
A2	9.20E+04	7.52E+03	178	18.9	-99
FD	9.20E+04	7.00E+03	180	27.0	-90
L1	9.18E+04	7.00E+03	179	1.80E-02	-160
L3	9.18E+04	7.00E+03	179	27.0	-93
L4	9.18E+04	7.00E+03	179	27.0	-93
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	180	32.9	-90

Table B–342. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.49E+04	9.90E+04
A2	8.45E+04	9.95E+04	8.45E+04	9.95E+04
FD	8.51E+04	9.91E+04	8.51E+04	9.90E+04
L1	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L3	8.48E+04	9.88E+04	8.48E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.48E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

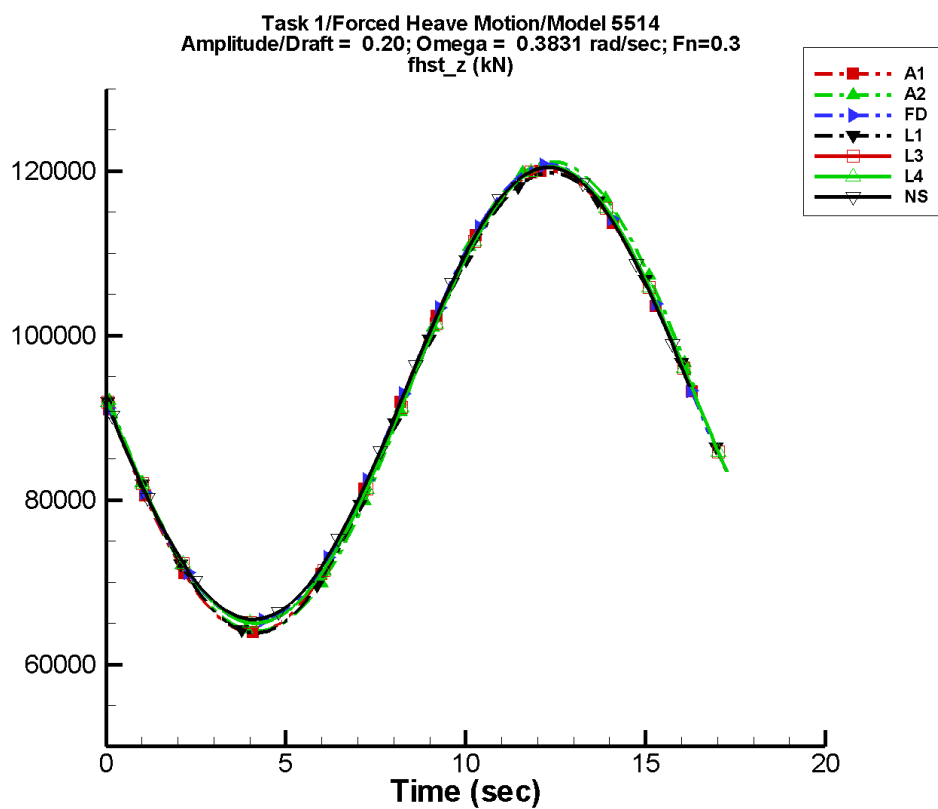
Table B–343. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	-180	2.51E-03	31
A2	9.20E+04	1.48E+04	178	80.5	-98
FD	9.21E+04	1.40E+04	-180	112.	-90
L1	9.18E+04	1.40E+04	179	1.77E-02	163
L3	9.19E+04	1.40E+04	179	111.	-93
L4	9.19E+04	1.40E+04	179	111.	-93
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–344. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.79E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.73E+04	1.07E+05
FD	7.83E+04	1.06E+05	7.83E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.78E+04	1.06E+05
L3	7.80E+04	1.06E+05	7.81E+04	1.06E+05
L4	7.80E+04	1.06E+05	7.81E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.86E+04	1.06E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-173. Time history of  $F_z^{hst}$  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 5514 scaled to  $L = 142$  m.

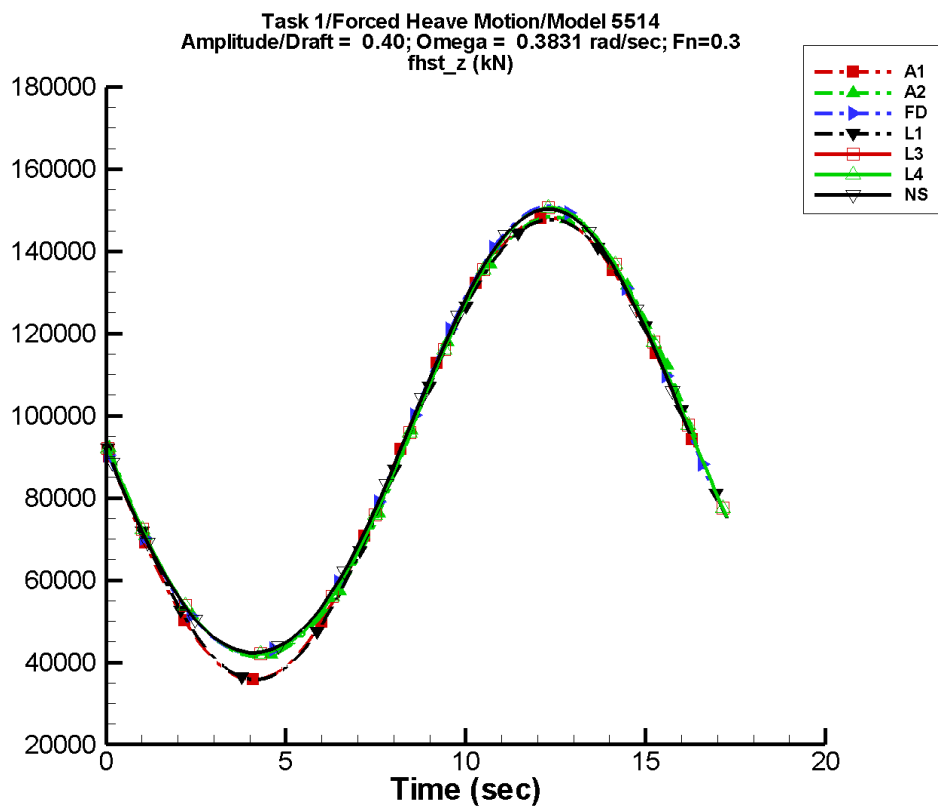
Table B–345. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	-180	1.33E-02	23
A2	9.23E+04	2.89E+04	178	360.	-99
FD	9.25E+04	2.79E+04	-180	491.	-90
L1	9.18E+04	2.80E+04	179	1.85E-02	-170
L3	9.23E+04	2.78E+04	179	491.	-93
L4	9.23E+04	2.78E+04	179	491.	-93
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	180	488.	-90

Table B–346. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.38E+04	1.20E+05
A2	6.41E+04	1.21E+05	6.40E+04	1.21E+05
FD	6.52E+04	1.21E+05	6.53E+04	1.21E+05
L1	6.38E+04	1.20E+05	6.39E+04	1.20E+05
L3	6.50E+04	1.21E+05	6.50E+04	1.20E+05
L4	6.50E+04	1.21E+05	6.50E+04	1.20E+05
NF	—	—	—	—
NS	6.55E+04	1.20E+05	6.57E+04	1.20E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-174. Time history of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

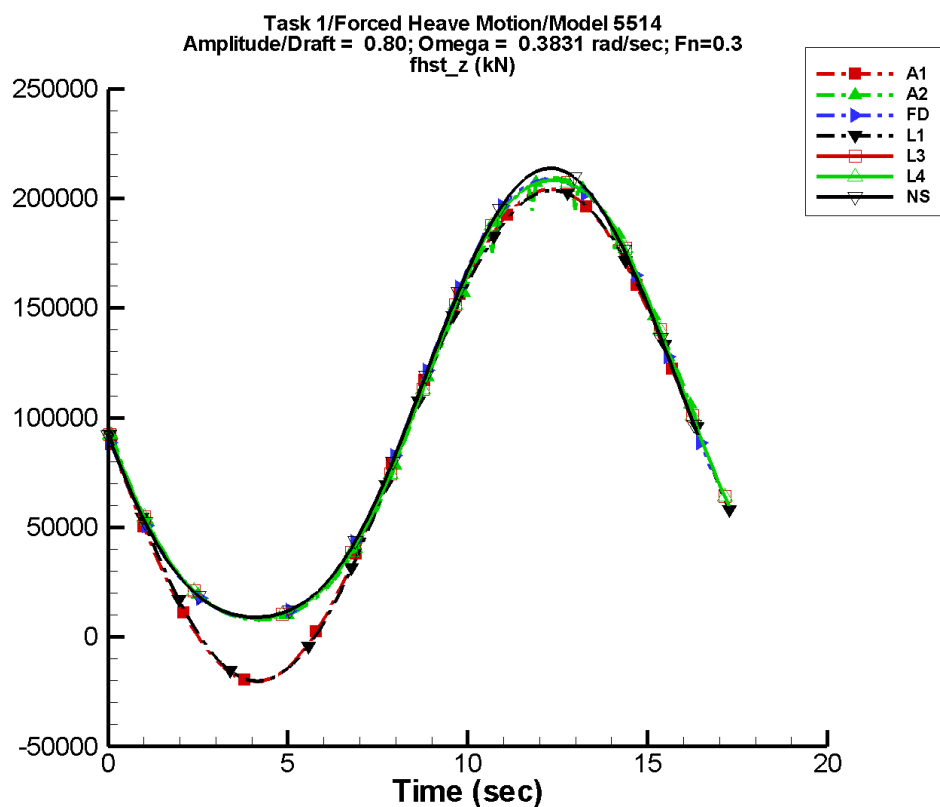
Table B–347. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	-180	3.63E-03	148
A2	9.33E+04	5.43E+04	178	1.66E+03	-98
FD	9.42E+04	5.48E+04	-180	2.30E+03	-89
L1	9.18E+04	5.60E+04	179	3.23E-02	-122
L3	9.39E+04	5.47E+04	179	2.29E+03	-94
L4	9.39E+04	5.47E+04	179	2.29E+03	-94
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	180	2.18E+03	-90

Table B–348. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.56E+04	1.48E+05
A2	4.14E+04	1.48E+05	4.14E+04	1.48E+05
FD	4.21E+04	1.51E+05	4.23E+04	1.51E+05
L1	3.58E+04	1.48E+05	3.59E+04	1.48E+05
L3	4.20E+04	1.51E+05	4.20E+04	1.50E+05
L4	4.20E+04	1.51E+05	4.20E+04	1.50E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

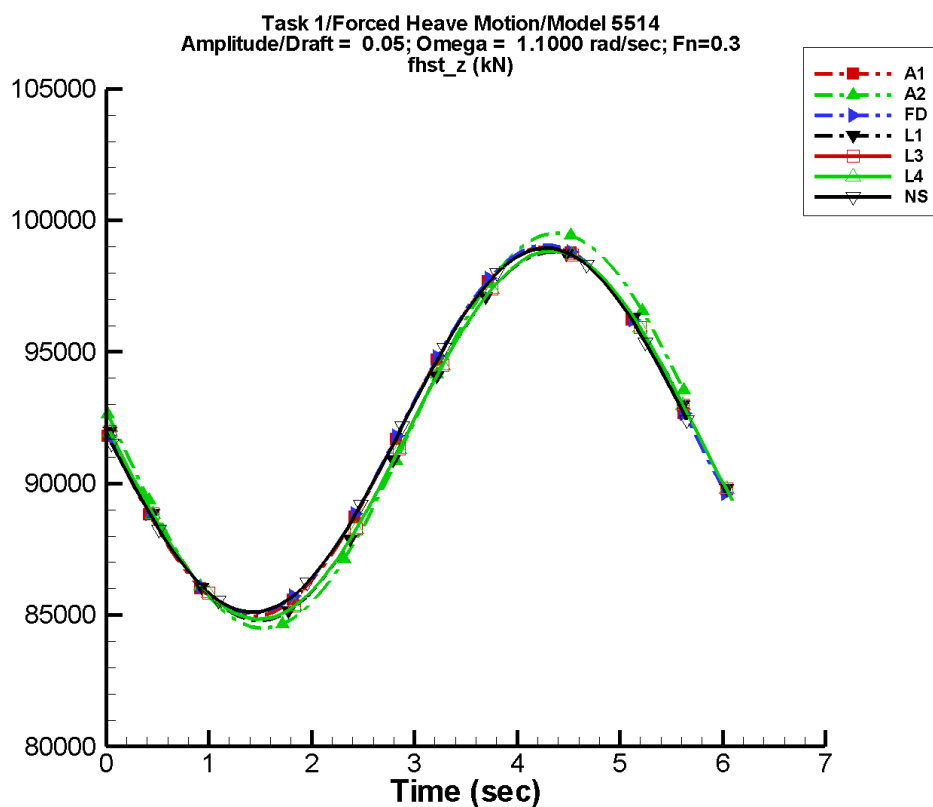
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	-180	8.91E-03	145
A2	9.97E+04	1.03E+05	178	8.81E+03	-96
FD	1.01E+05	1.03E+05	-180	8.78E+03	-89
L1	9.18E+04	1.12E+05	179	3.60E-02	-77
L3	1.00E+05	1.03E+05	179	8.80E+03	-94
L4	1.00E+05	1.03E+05	179	8.80E+03	-94
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–350. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-2.07E+04	2.04E+05
A2	7.81E+03	2.09E+05	7.59E+03	2.09E+05
FD	8.79E+03	2.09E+05	8.95E+03	2.08E+05
L1	-2.01E+04	2.04E+05	-2.00E+04	2.04E+05
L3	8.72E+03	2.08E+05	8.78E+03	2.08E+05
L4	8.72E+03	2.08E+05	8.78E+03	2.08E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-176. Time history of  $F_z^{hst}$  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 5514 scaled to  $L = 142$  m.

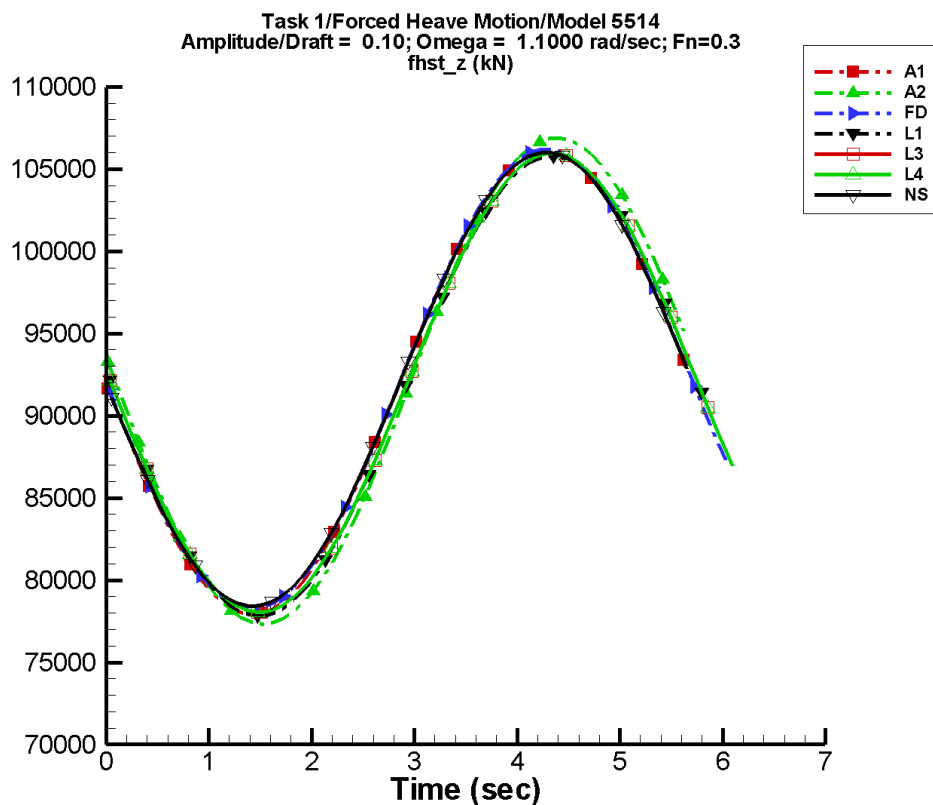
Table B–351. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	7.03E+03	180	1.36E-02	-178
A2	9.20E+04	7.52E+03	174	18.0	-108
FD	9.20E+04	7.00E+03	180	27.0	-90
L1	9.18E+04	7.00E+03	176	1.02E-02	-32
L3	9.18E+04	7.00E+03	176	27.0	-98
L4	9.18E+04	7.00E+03	176	27.0	-98
NF	—	—	—	—	—
NS	9.20E+04	6.92E+03	180	32.9	-90

Table B–352. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.49E+04	9.90E+04	8.51E+04	9.88E+04
A2	8.45E+04	9.95E+04	8.47E+04	9.93E+04
FD	8.51E+04	9.91E+04	8.53E+04	9.88E+04
L1	8.48E+04	9.88E+04	8.49E+04	9.87E+04
L3	8.48E+04	9.88E+04	8.49E+04	9.88E+04
L4	8.48E+04	9.88E+04	8.49E+04	9.88E+04
NF	—	—	—	—
NS	8.51E+04	9.89E+04	8.52E+04	9.89E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-177. Time history of  $F_z^{hst}$  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 5514 scaled to  $L = 142$  m.

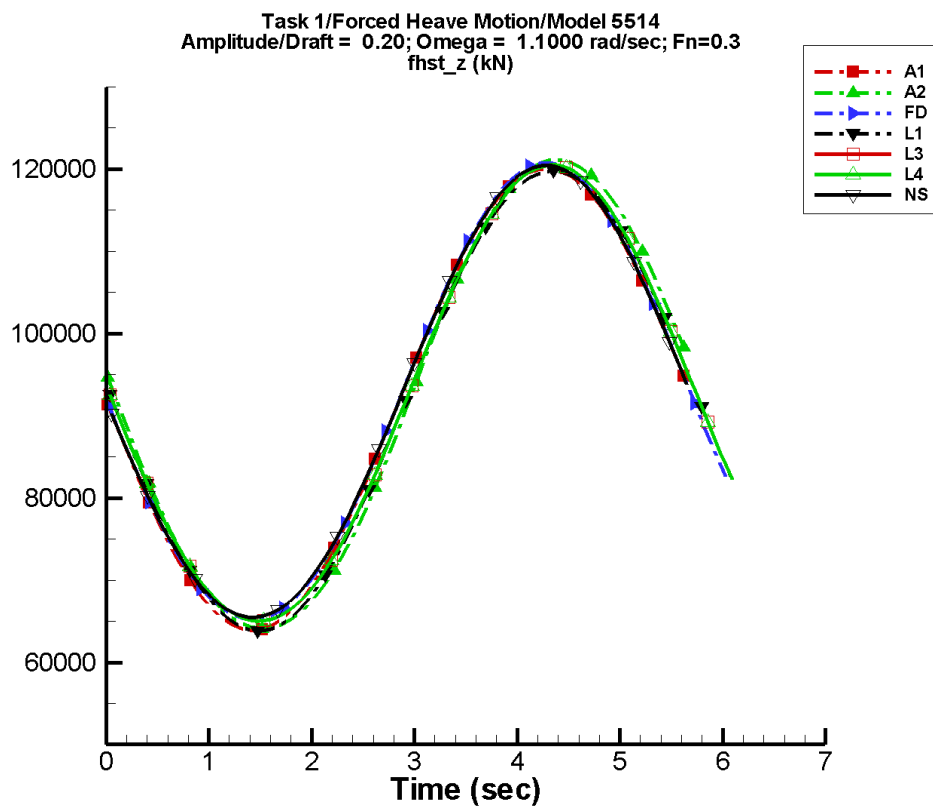
Table B–353. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.40E+04	180	2.11E-02	-176
A2	9.20E+04	1.48E+04	174	77.1	-107
FD	9.21E+04	1.40E+04	180	113.	-90
L1	9.18E+04	1.40E+04	176	2.78E-02	-180
L3	9.19E+04	1.40E+04	176	112.	-98
L4	9.19E+04	1.40E+04	176	112.	-98
NF	—	—	—	—	—
NS	9.21E+04	1.38E+04	180	124.	-90

Table B–354. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.79E+04	1.06E+05	7.83E+04	1.06E+05
A2	7.73E+04	1.07E+05	7.78E+04	1.06E+05
FD	7.83E+04	1.06E+05	7.87E+04	1.06E+05
L1	7.78E+04	1.06E+05	7.80E+04	1.06E+05
L3	7.81E+04	1.06E+05	7.82E+04	1.06E+05
L4	7.81E+04	1.06E+05	7.82E+04	1.06E+05
NF	—	—	—	—
NS	7.84E+04	1.06E+05	7.86E+04	1.06E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

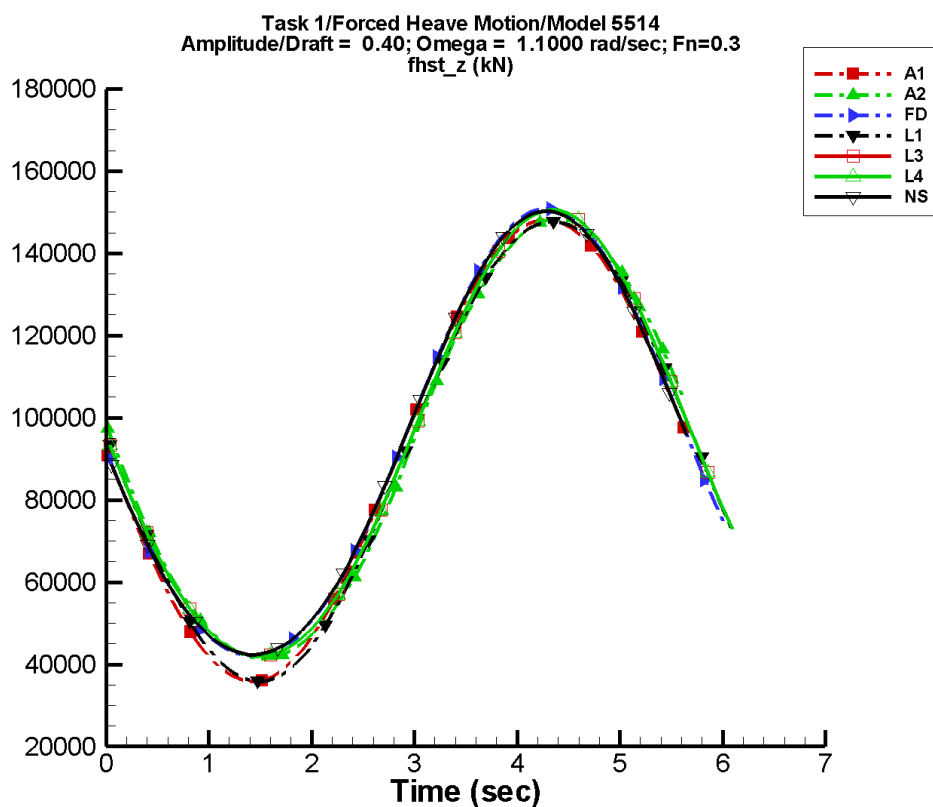
Table B–355. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	2.81E+04	180	5.13E-02	172
A2	9.23E+04	2.89E+04	174	343.	-108
FD	9.25E+04	2.79E+04	-180	498.	-90
L1	9.18E+04	2.80E+04	176	4.39E-02	141
L3	9.23E+04	2.78E+04	176	502.	-98
L4	9.23E+04	2.78E+04	176	502.	-98
NF	—	—	—	—	—
NS	9.25E+04	2.75E+04	180	488.	-90

Table B–356. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.39E+04	1.20E+05	6.46E+04	1.19E+05
A2	6.41E+04	1.21E+05	6.49E+04	1.20E+05
FD	6.52E+04	1.21E+05	6.60E+04	1.20E+05
L1	6.38E+04	1.20E+05	6.41E+04	1.19E+05
L3	6.50E+04	1.21E+05	6.53E+04	1.20E+05
L4	6.50E+04	1.21E+05	6.53E+04	1.20E+05
NF	—	—	—	—
NS	6.55E+04	1.20E+05	6.57E+04	1.20E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

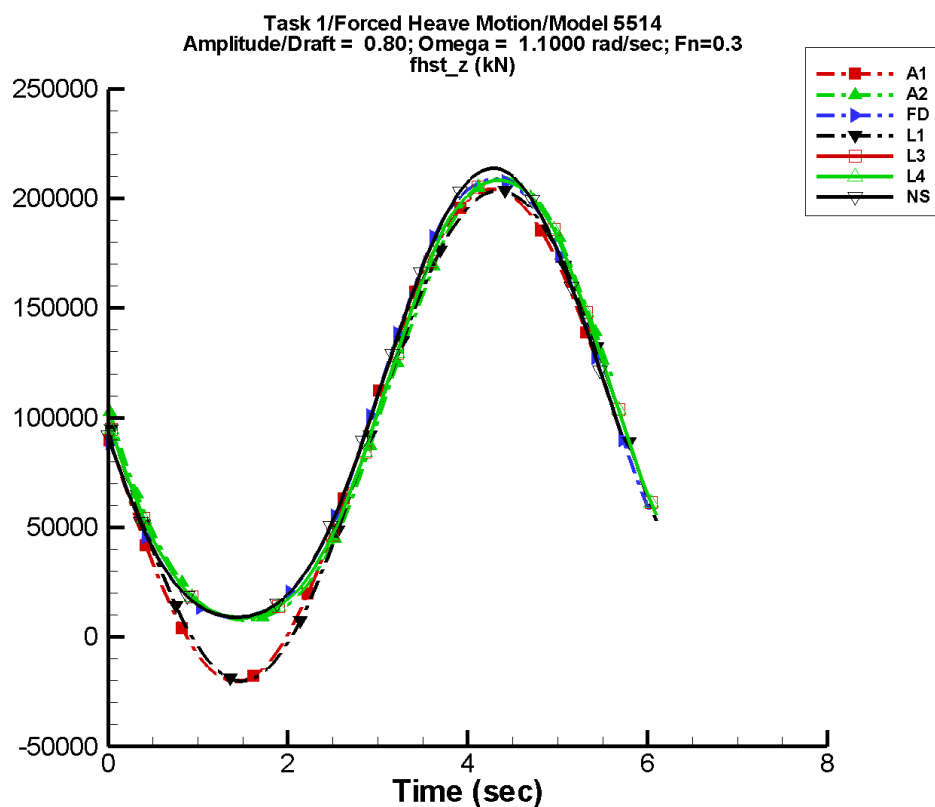
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	5.62E+04	180	0.105	173
A2	9.33E+04	5.44E+04	174	1.61E+03	-106
FD	9.42E+04	5.48E+04	-180	2.35E+03	-90
L1	9.18E+04	5.59E+04	176	3.45E-02	97
L3	9.39E+04	5.47E+04	176	2.37E+03	-98
L4	9.39E+04	5.47E+04	176	2.37E+03	-98
NF	—	—	—	—	—
NS	9.41E+04	5.43E+04	180	2.18E+03	-90

Table B–358. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.58E+04	1.48E+05	3.72E+04	1.46E+05
A2	4.14E+04	1.48E+05	4.28E+04	1.47E+05
FD	4.21E+04	1.51E+05	4.35E+04	1.49E+05
L1	3.59E+04	1.48E+05	3.65E+04	1.47E+05
L3	4.20E+04	1.51E+05	4.25E+04	1.50E+05
L4	4.20E+04	1.51E+05	4.25E+04	1.50E+05
NF	—	—	—	—
NS	4.23E+04	1.50E+05	4.28E+04	1.50E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

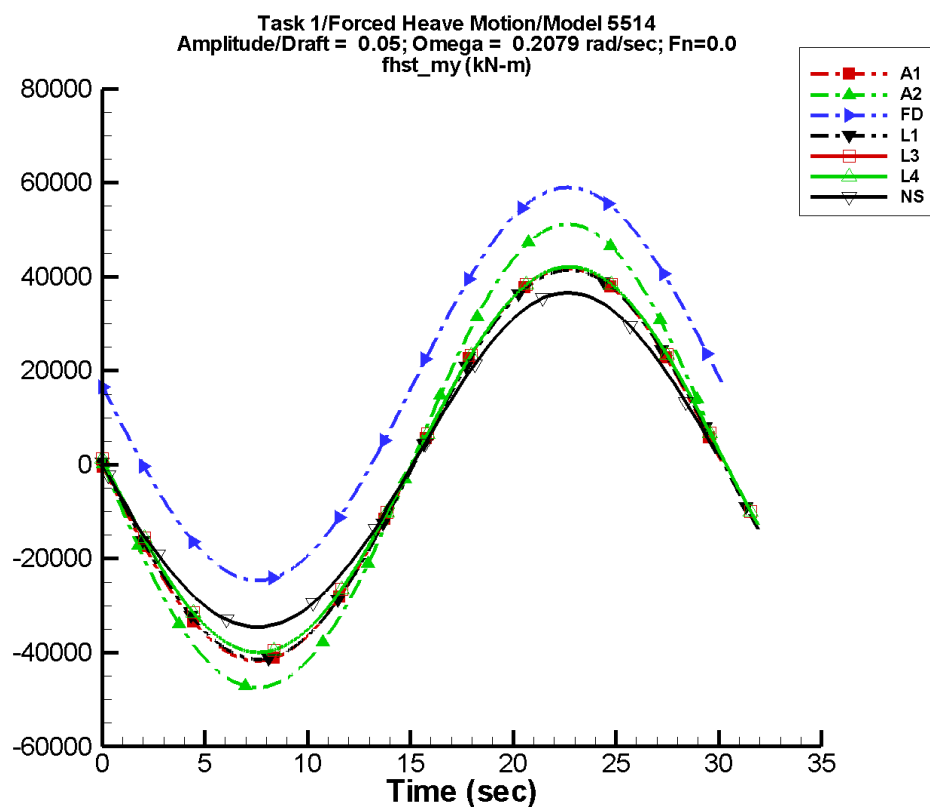
Table B–359. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	9.20E+04	1.12E+05	180	0.193	168
A2	1.00E+05	1.04E+05	174	8.99E+03	-104
FD	1.01E+05	1.03E+05	-180	9.29E+03	-90
L1	9.18E+04	1.12E+05	176	2.22E-02	134
L3	1.00E+05	1.03E+05	176	9.34E+03	-98
L4	1.00E+05	1.03E+05	176	9.34E+03	-98
NF	—	—	—	—	—
NS	1.01E+05	1.04E+05	180	9.75E+03	-90

Table B–360. Minimum and maximum of  $F_z^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.04E+04	2.04E+05	-1.77E+04	2.01E+05
A2	7.81E+03	2.09E+05	9.39E+03	2.06E+05
FD	8.79E+03	2.09E+05	1.03E+04	2.06E+05
L1	-2.01E+04	2.04E+05	-1.88E+04	2.02E+05
L3	8.73E+03	2.08E+05	9.26E+03	2.07E+05
L4	8.73E+03	2.08E+05	9.26E+03	2.07E+05
NF	—	—	—	—
NS	8.99E+03	2.14E+05	9.21E+03	2.13E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-181. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

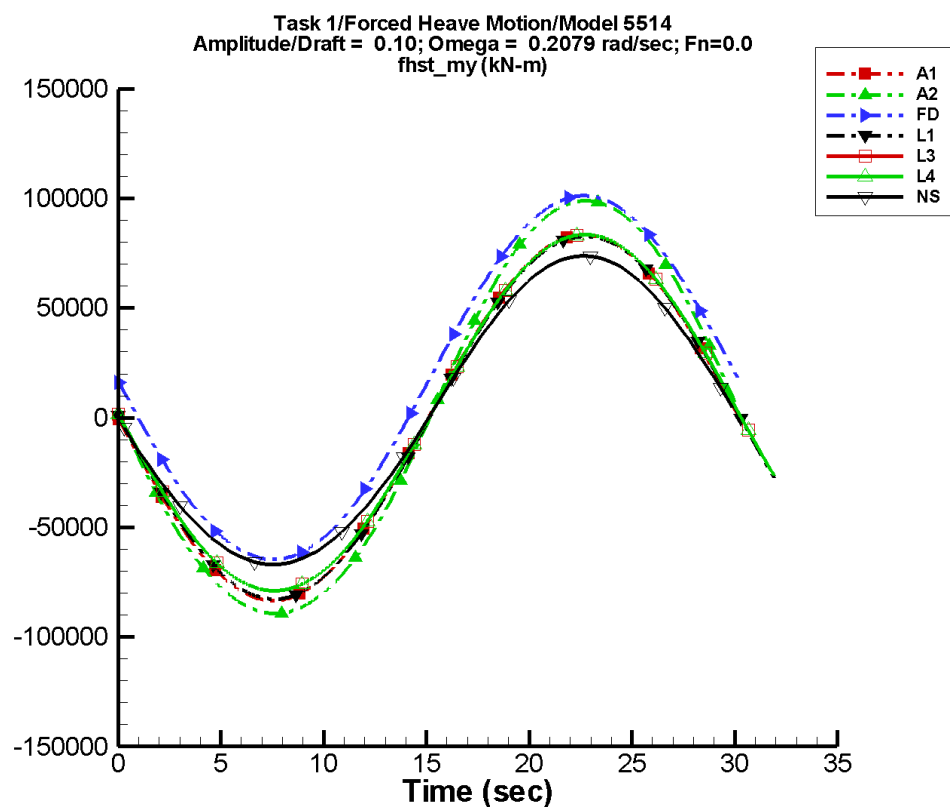
Table B–361. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	3.13E-02	4.18E+04	180	3.80E-02	162
A2	1.25E+03	4.96E+04	-180	646.	-93
FD	1.70E+04	4.18E+04	-180	148.	-89
L1	-0.102	4.14E+04	179	2.10E-03	-36
L3	937.	4.10E+04	179	161.	-91
L4	937.	4.10E+04	179	161.	-91
NF	—	—	—	—	—
NS	434.	3.57E+04	180	570.	-90

Table B–362. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.18E+04	-4.18E+04	4.17E+04
A2	-4.74E+04	5.12E+04	-4.74E+04	5.11E+04
FD	-2.46E+04	5.90E+04	-2.46E+04	5.90E+04
L1	-4.14E+04	4.14E+04	-4.14E+04	4.14E+04
L3	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
L4	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-182. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

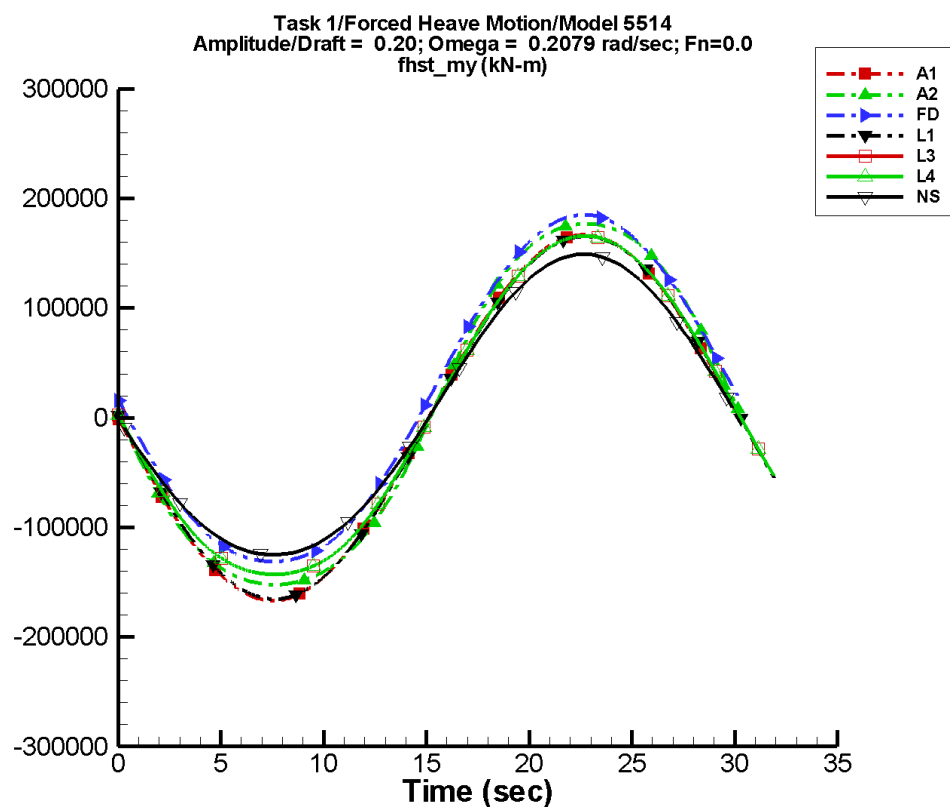
Table B–363. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	7.36E-02	8.34E+04	180	7.34E-02	164
A2	2.83E+03	9.54E+04	179	2.32E+03	-95
FD	1.76E+04	8.32E+04	-180	751.	-88
L1	-0.315	8.27E+04	179	1.83E-02	175
L3	1.49E+03	8.15E+04	179	814.	-92
L4	1.49E+03	8.15E+04	179	814.	-92
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–364. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.34E+04	-8.34E+04	8.33E+04
A2	-8.93E+04	9.90E+04	-8.92E+04	9.89E+04
FD	-6.46E+04	1.01E+05	-6.45E+04	1.01E+05
L1	-8.27E+04	8.27E+04	-8.27E+04	8.27E+04
L3	-7.89E+04	8.35E+04	-7.89E+04	8.35E+04
L4	-7.89E+04	8.35E+04	-7.89E+04	8.35E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-183. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

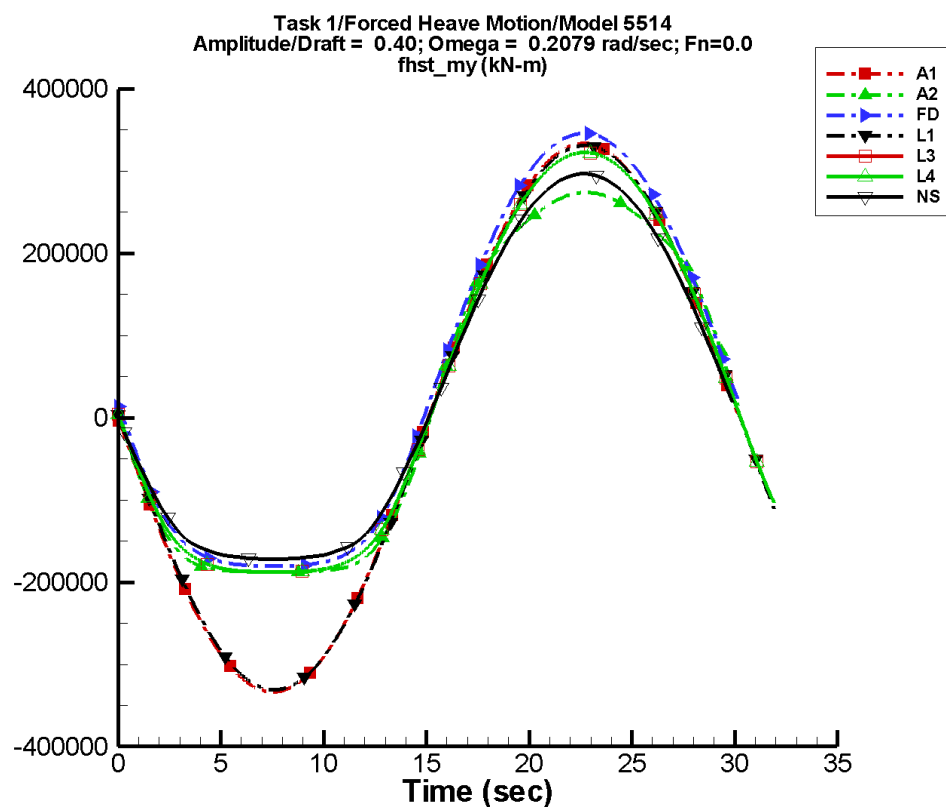
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.144	1.67E+05	180	0.146	166
A2	6.99E+03	1.72E+05	179	6.86E+03	-97
FD	2.11E+04	1.61E+05	-180	5.35E+03	-88
L1	-0.602	1.65E+05	179	1.66E-02	160
L3	5.15E+03	1.57E+05	179	5.93E+03	-92
L4	5.15E+03	1.57E+05	179	5.93E+03	-92
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	-180	5.92E+03	-90

Table B–366. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.67E+05	1.67E+05
A2	-1.52E+05	1.77E+05	-1.52E+05	1.77E+05
FD	-1.31E+05	1.85E+05	-1.31E+05	1.85E+05
L1	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L3	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
L4	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-184. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

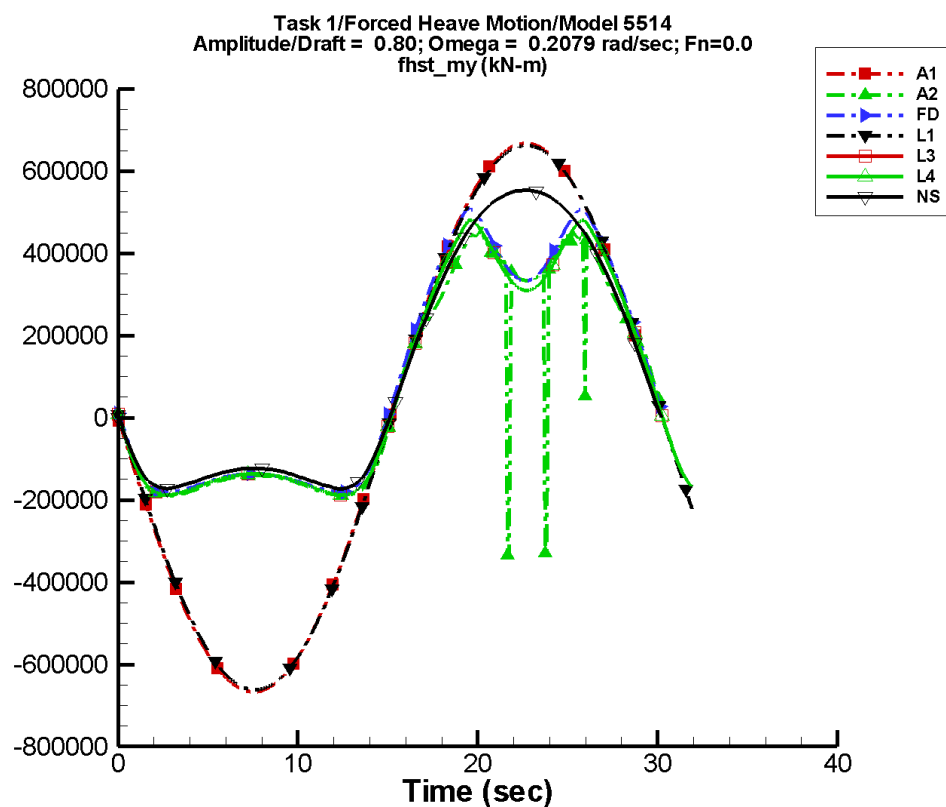
Table B–367. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.282	3.34E+05	180	0.304	162
A2	2.03E+04	2.56E+05	180	2.49E+04	-98
FD	4.64E+04	2.79E+05	-180	3.67E+04	-88
L1	-1.26	3.31E+05	179	2.15E-02	-88
L3	3.09E+04	2.71E+05	179	3.87E+04	-92
L4	3.09E+04	2.71E+05	179	3.87E+04	-92
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–368. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.34E+05	-3.34E+05	3.33E+05
A2	-1.88E+05	2.74E+05	-1.88E+05	2.74E+05
FD	-1.80E+05	3.46E+05	-1.80E+05	3.46E+05
L1	-3.31E+05	3.31E+05	-3.31E+05	3.31E+05
L3	-1.88E+05	3.23E+05	-1.88E+05	3.23E+05
L4	-1.88E+05	3.23E+05	-1.88E+05	3.23E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-185. Time history of  $M_y^{hst}$  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 5514 scaled to  $L = 142$  m.

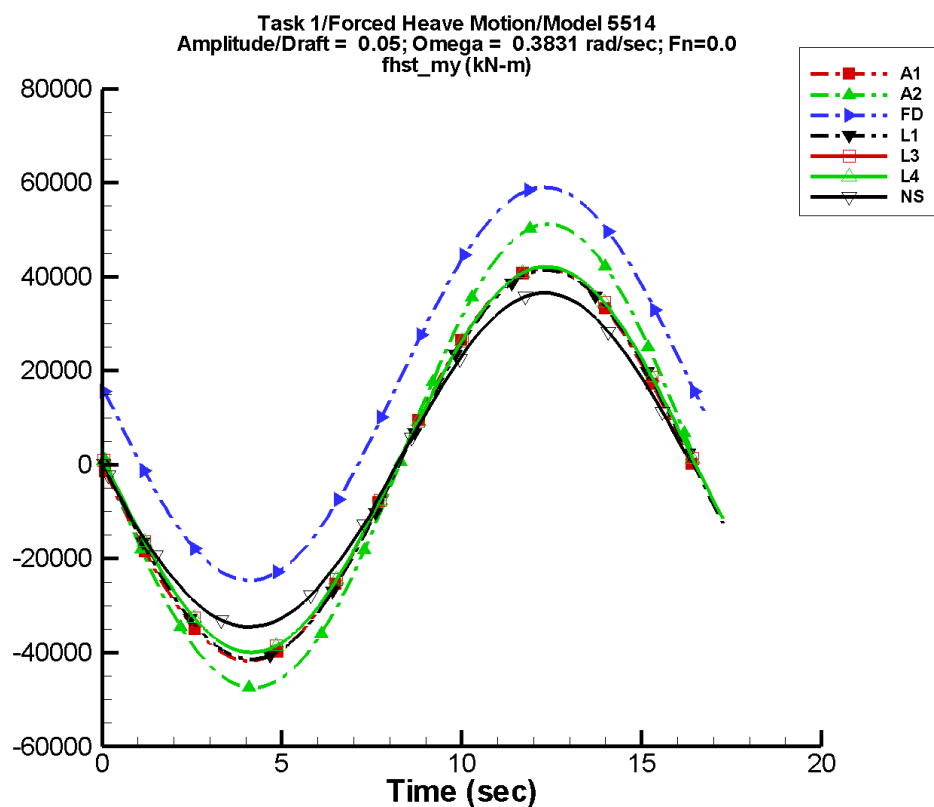
Table B–369. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.603	6.67E+05	180	0.586	161
A2	6.39E+04	3.10E+05	-179	5.82E+04	-95
FD	9.60E+04	3.49E+05	-178	6.90E+04	-79
L1	-2.49	6.62E+05	179	0.100	173
L3	8.23E+04	3.33E+05	-179	7.33E+04	-94
L4	8.23E+04	3.33E+05	-179	7.33E+04	-94
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–370. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.67E+05	6.67E+05
A2	-3.35E+05	4.63E+05	-1.89E+05	4.48E+05
FD	-1.82E+05	5.09E+05	-1.81E+05	5.02E+05
L1	-6.62E+05	6.62E+05	-6.62E+05	6.62E+05
L3	-1.88E+05	4.81E+05	-1.88E+05	4.78E+05
L4	-1.88E+05	4.81E+05	-1.88E+05	4.78E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-186. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

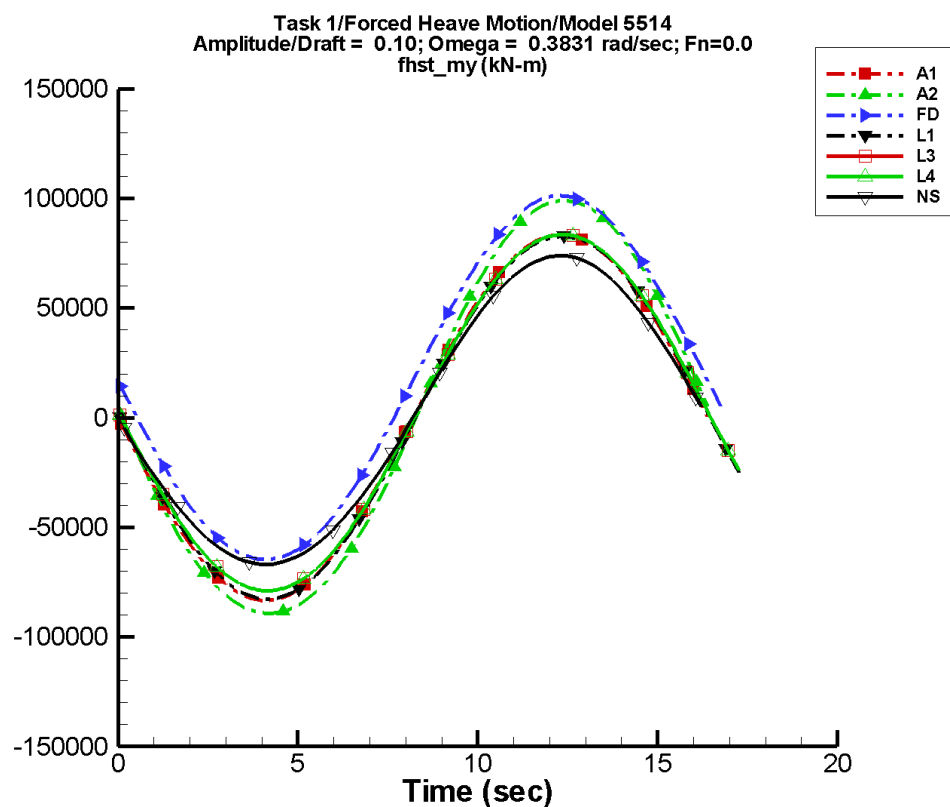
Table B–371. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.96E-04	4.18E+04	-180	6.66E-03	55
A2	1.25E+03	4.96E+04	178	646.	-97
FD	1.70E+04	4.18E+04	-180	147.	-90
L1	-0.148	4.14E+04	179	5.25E-03	150
L3	937.	4.10E+04	179	159.	-93
L4	937.	4.10E+04	179	159.	-93
NF	—	—	—	—	—
NS	431.	3.57E+04	180	575.	-90

Table B–372. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.18E+04	-4.19E+04	4.16E+04
A2	-4.74E+04	5.12E+04	-4.75E+04	5.10E+04
FD	-2.46E+04	5.90E+04	-2.45E+04	5.89E+04
L1	-4.14E+04	4.14E+04	-4.14E+04	4.14E+04
L3	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
L4	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-187. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

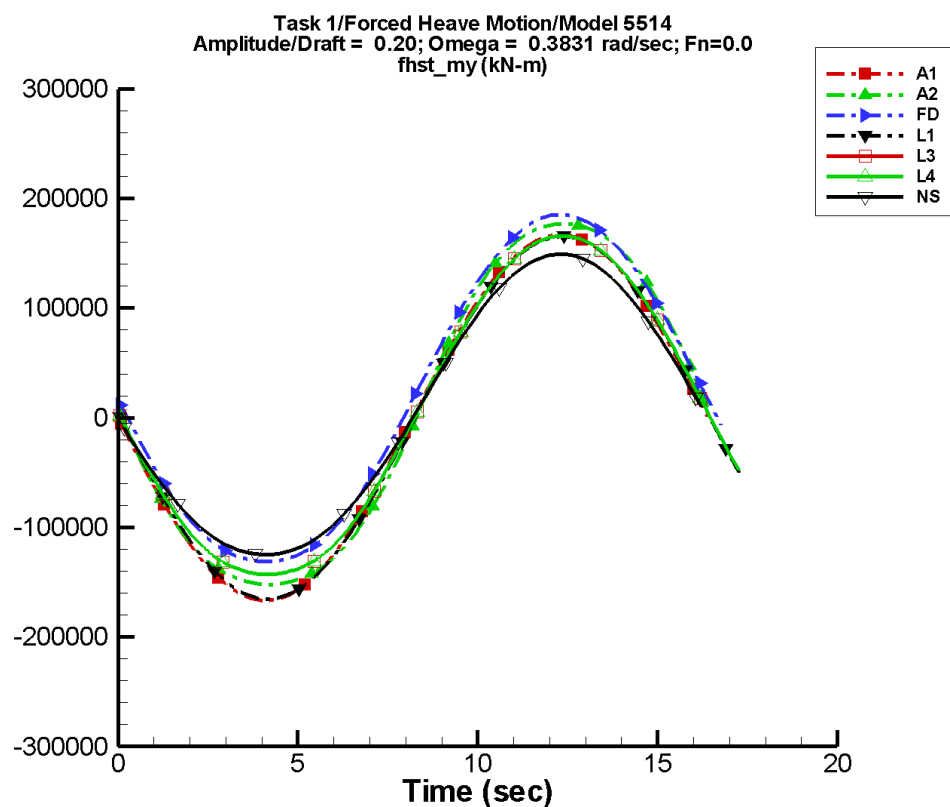
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-7.90E-03	8.34E+04	-180	6.09E-03	34
A2	2.83E+03	9.54E+04	178	2.33E+03	-97
FD	1.76E+04	8.32E+04	-180	737.	-89
L1	-0.282	8.27E+04	179	4.72E-03	58
L3	1.49E+03	8.15E+04	179	771.	-95
L4	1.49E+03	8.15E+04	179	771.	-95
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–374. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.34E+04	-8.36E+04	8.31E+04
A2	-8.93E+04	9.90E+04	-8.94E+04	9.86E+04
FD	-6.46E+04	1.01E+05	-6.43E+04	1.01E+05
L1	-8.27E+04	8.27E+04	-8.26E+04	8.26E+04
L3	-7.89E+04	8.35E+04	-7.88E+04	8.34E+04
L4	-7.89E+04	8.35E+04	-7.88E+04	8.34E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-188. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

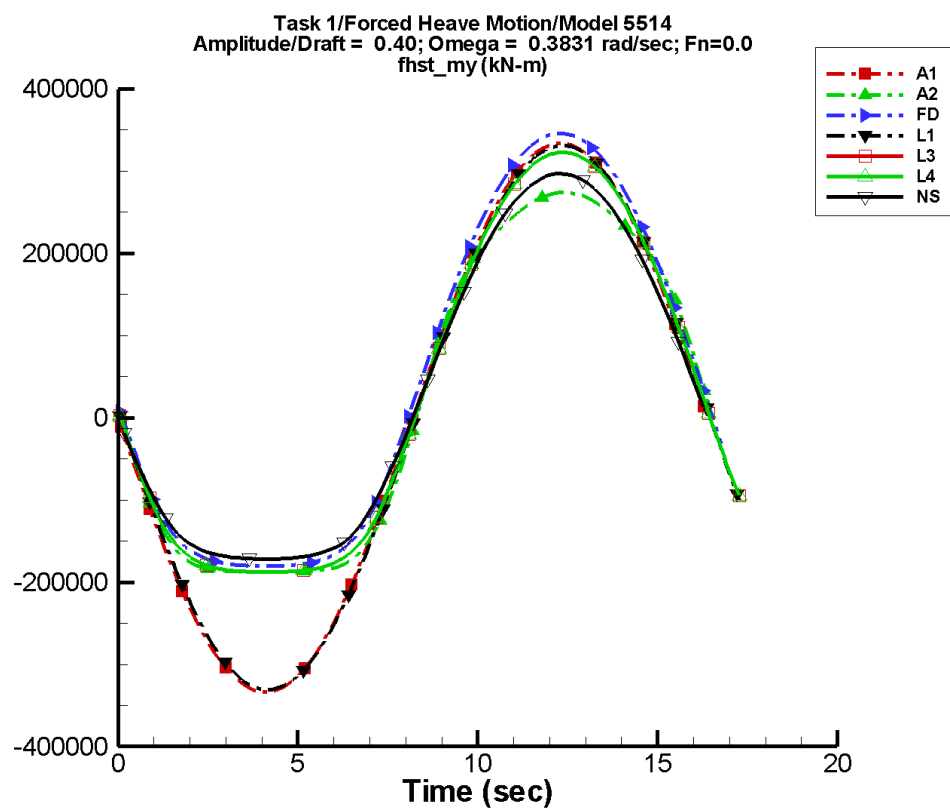
Table B–375. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.68E-02	1.67E+05	-180	1.97E-02	24
A2	6.94E+03	1.72E+05	178	6.88E+03	-101
FD	2.10E+04	1.61E+05	-180	5.21E+03	-88
L1	-0.569	1.65E+05	179	2.30E-02	72
L3	5.14E+03	1.58E+05	179	5.40E+03	-96
L4	5.14E+03	1.58E+05	179	5.40E+03	-96
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	180	5.92E+03	-90

Table B–376. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.67E+05	1.66E+05
A2	-1.54E+05	1.77E+05	-1.53E+05	1.77E+05
FD	-1.31E+05	1.85E+05	-1.31E+05	1.85E+05
L1	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L3	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
L4	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-189. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

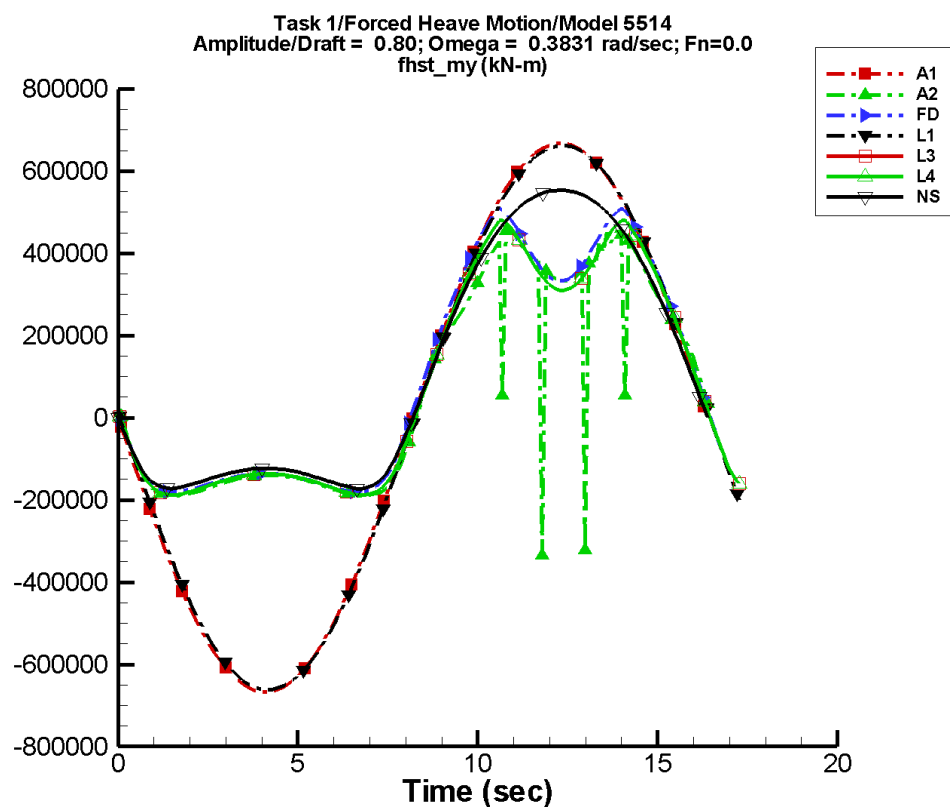
Table B–377. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-4.90E-02	3.34E+05	-180	4.13E-02	-5
A2	2.04E+04	2.56E+05	179	2.51E+04	-100
FD	4.62E+04	2.78E+05	-180	3.57E+04	-88
L1	-1.09	3.31E+05	179	3.27E-02	-90
L3	3.06E+04	2.72E+05	179	3.59E+04	-96
L4	3.06E+04	2.72E+05	179	3.59E+04	-96
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–378. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.34E+05	-3.35E+05	3.32E+05
A2	-1.88E+05	2.74E+05	-1.89E+05	2.73E+05
FD	-1.80E+05	3.46E+05	-1.80E+05	3.45E+05
L1	-3.31E+05	3.31E+05	-3.30E+05	3.30E+05
L3	-1.88E+05	3.23E+05	-1.88E+05	3.22E+05
L4	-1.88E+05	3.23E+05	-1.88E+05	3.22E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-190. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

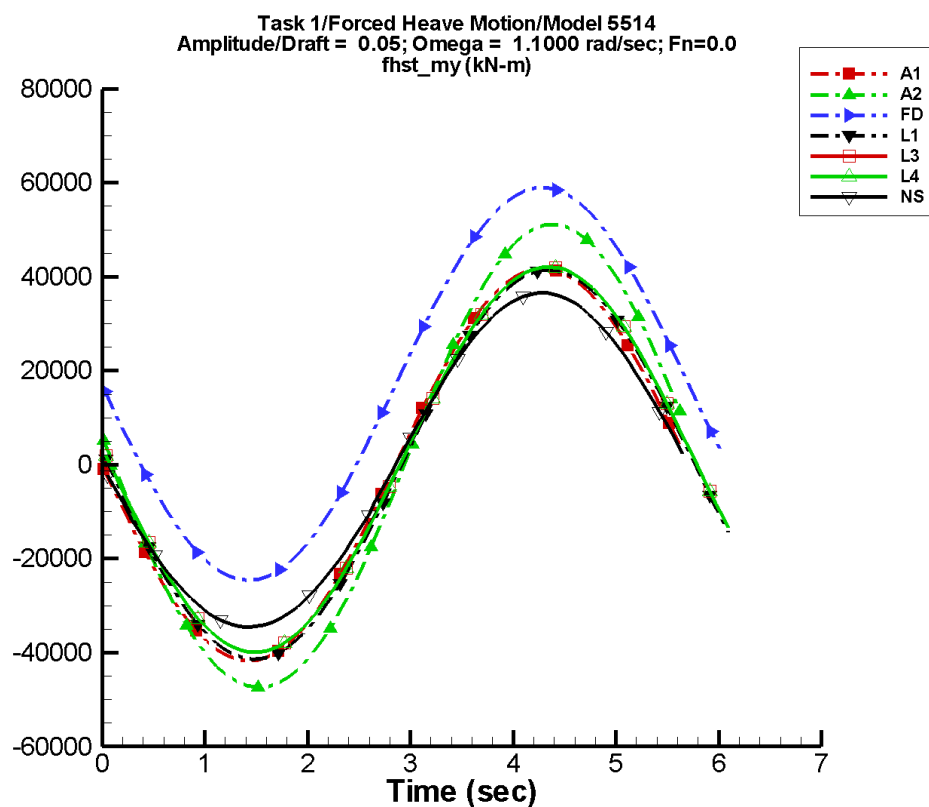
Table B–379. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.54E-02	6.67E+05	-180	5.15E-02	-8
A2	6.13E+04	3.05E+05	180	5.79E+04	-100
FD	9.60E+04	3.46E+05	-179	5.87E+04	-84
L1	-2.27	6.62E+05	179	6.41E-02	-55
L3	7.99E+04	3.40E+05	-180	6.35E+04	-99
L4	7.99E+04	3.40E+05	-180	6.35E+04	-99
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–380. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.69E+05	6.65E+05
A2	-3.34E+05	4.64E+05	-1.87E+05	4.09E+05
FD	-1.82E+05	5.09E+05	-1.80E+05	4.92E+05
L1	-6.62E+05	6.62E+05	-6.61E+05	6.61E+05
L3	-1.88E+05	4.81E+05	-1.87E+05	4.73E+05
L4	-1.88E+05	4.81E+05	-1.87E+05	4.73E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-191. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

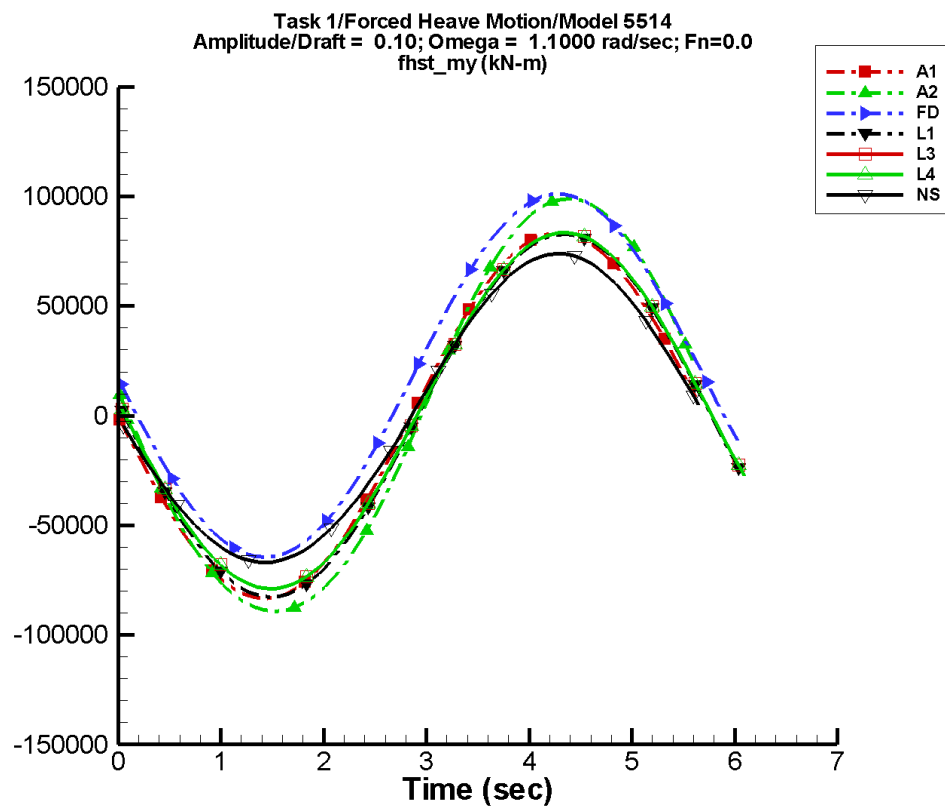
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	4.45E-02	4.18E+04	180	6.81E-02	168
A2	1.24E+03	4.96E+04	174	629.	-105
FD	1.70E+04	4.18E+04	180	149.	-90
L1	-3.67E-02	4.14E+04	176	5.61E-03	-161
L3	937.	4.10E+04	176	161.	-97
L4	937.	4.10E+04	176	161.	-97
NF	—	—	—	—	—
NS	431.	3.57E+04	180	575.	-90

Table B–382. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.17E+04	-4.08E+04	4.05E+04
A2	-4.74E+04	5.11E+04	-4.60E+04	4.96E+04
FD	-2.46E+04	5.90E+04	-2.33E+04	5.77E+04
L1	-4.14E+04	4.14E+04	-4.09E+04	4.10E+04
L3	-3.99E+04	4.21E+04	-3.95E+04	4.17E+04
L4	-3.99E+04	4.21E+04	-3.95E+04	4.17E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-192. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

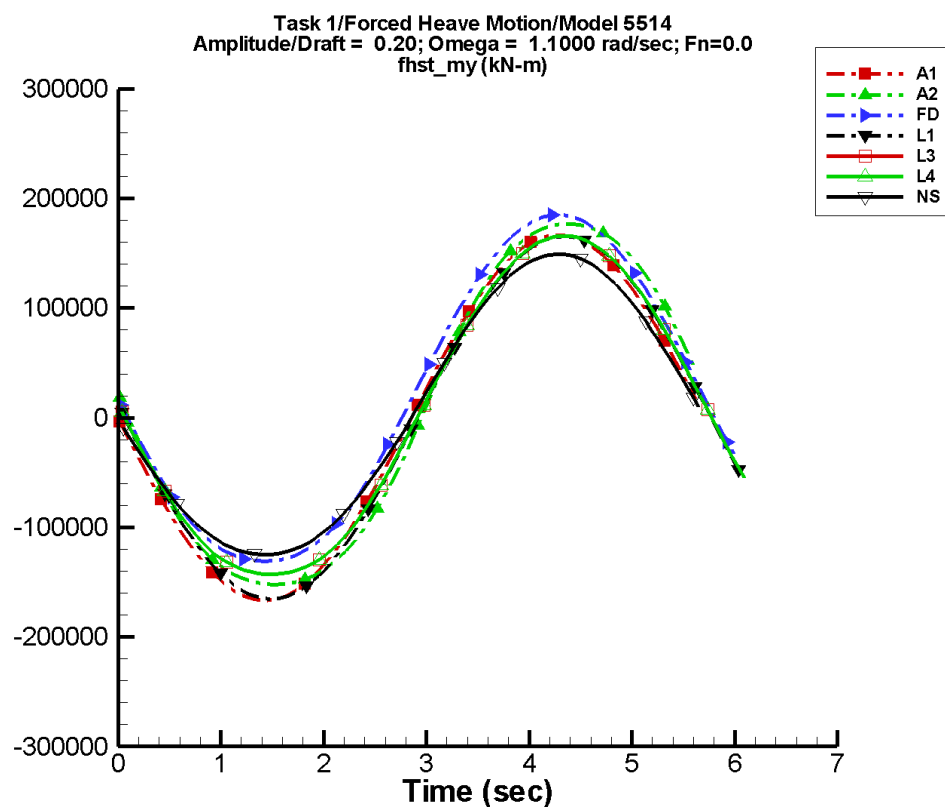
Table B–383. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	8.39E-02	8.34E+04	180	0.140	167
A2	2.82E+03	9.55E+04	174	2.27E+03	-105
FD	1.76E+04	8.32E+04	-180	772.	-90
L1	-0.111	8.27E+04	176	1.80E-02	-101
L3	1.49E+03	8.14E+04	176	817.	-98
L4	1.49E+03	8.14E+04	176	817.	-98
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–384. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.33E+04	-8.14E+04	8.08E+04
A2	-8.93E+04	9.89E+04	-8.67E+04	9.61E+04
FD	-6.46E+04	1.01E+05	-6.21E+04	9.86E+04
L1	-8.27E+04	8.27E+04	-8.18E+04	8.18E+04
L3	-7.89E+04	8.35E+04	-7.80E+04	8.26E+04
L4	-7.89E+04	8.35E+04	-7.80E+04	8.26E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-193. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

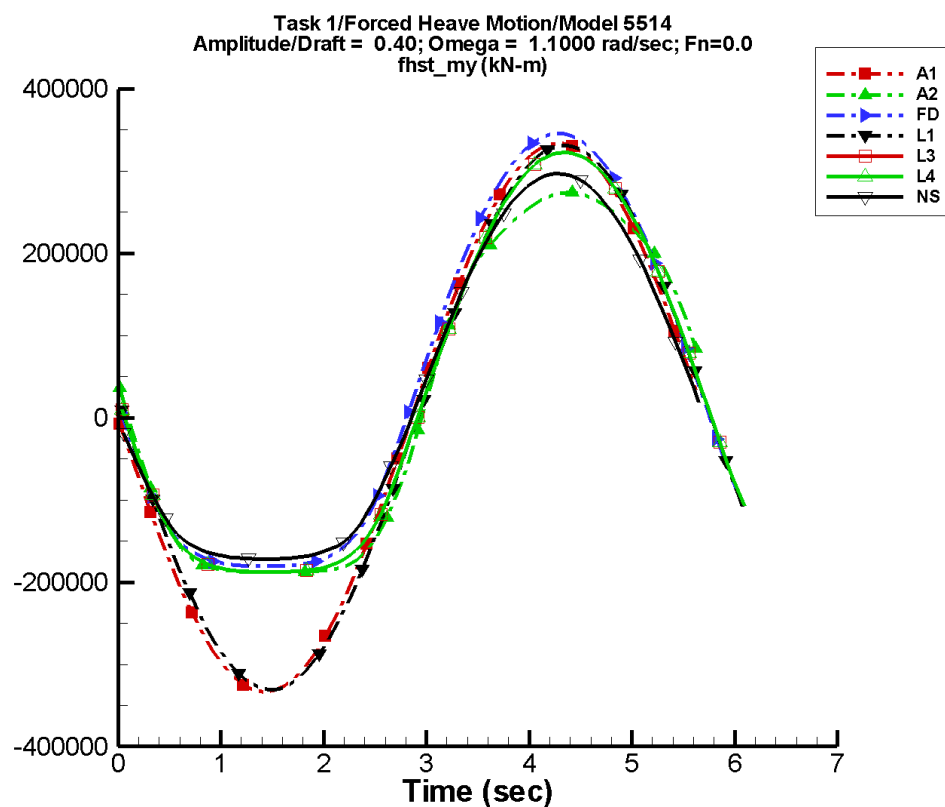
Table B–385. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.173	1.67E+05	180	0.283	167
A2	6.95E+03	1.72E+05	174	6.57E+03	-108
FD	2.10E+04	1.61E+05	-180	5.57E+03	-89
L1	-0.240	1.65E+05	176	2.30E-02	-16
L3	5.13E+03	1.57E+05	176	5.94E+03	-98
L4	5.13E+03	1.57E+05	176	5.94E+03	-98
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	180	5.92E+03	-90

Table B–386. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.63E+05	1.62E+05
A2	-1.52E+05	1.77E+05	-1.49E+05	1.73E+05
FD	-1.31E+05	1.85E+05	-1.28E+05	1.80E+05
L1	-1.65E+05	1.65E+05	-1.64E+05	1.64E+05
L3	-1.43E+05	1.66E+05	-1.42E+05	1.64E+05
L4	-1.43E+05	1.66E+05	-1.42E+05	1.64E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-194. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

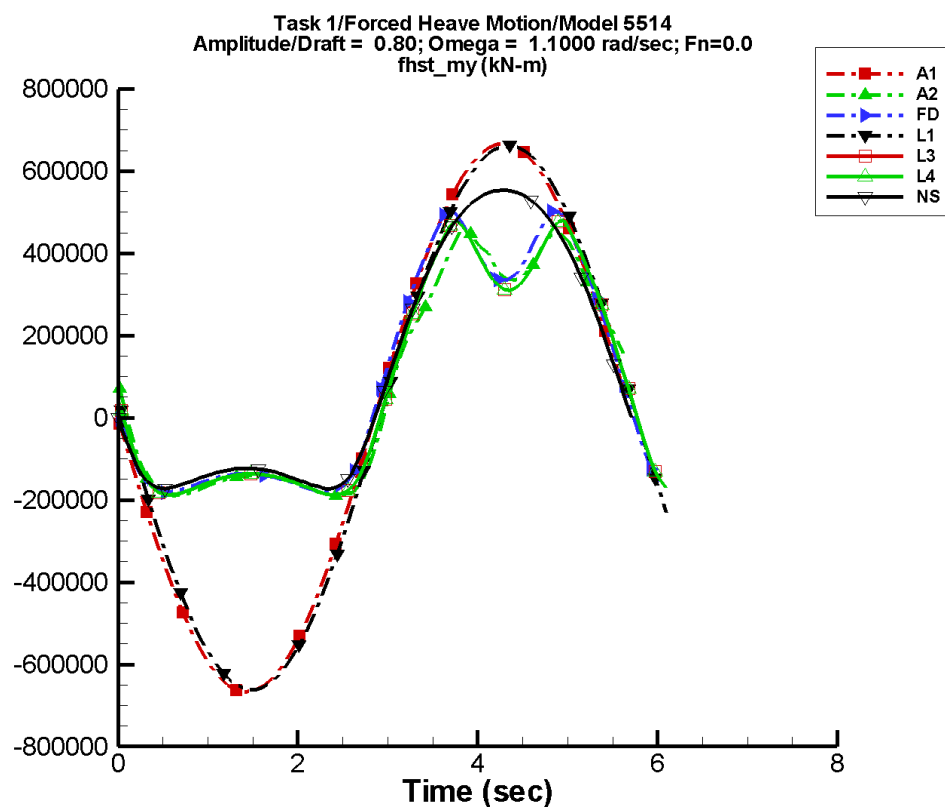
Table B–387. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.347	3.34E+05	180	0.565	167
A2	2.02E+04	2.57E+05	174	2.36E+04	-109
FD	4.63E+04	2.79E+05	-180	3.83E+04	-89
L1	-0.473	3.31E+05	176	6.65E-02	177
L3	3.05E+04	2.71E+05	176	3.93E+04	-98
L4	3.05E+04	2.71E+05	176	3.93E+04	-98
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–388. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.33E+05	-3.26E+05	3.23E+05
A2	-1.88E+05	2.74E+05	-1.90E+05	2.66E+05
FD	-1.80E+05	3.46E+05	-1.79E+05	3.36E+05
L1	-3.31E+05	3.31E+05	-3.27E+05	3.27E+05
L3	-1.88E+05	3.23E+05	-1.87E+05	3.19E+05
L4	-1.88E+05	3.23E+05	-1.87E+05	3.19E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-195. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

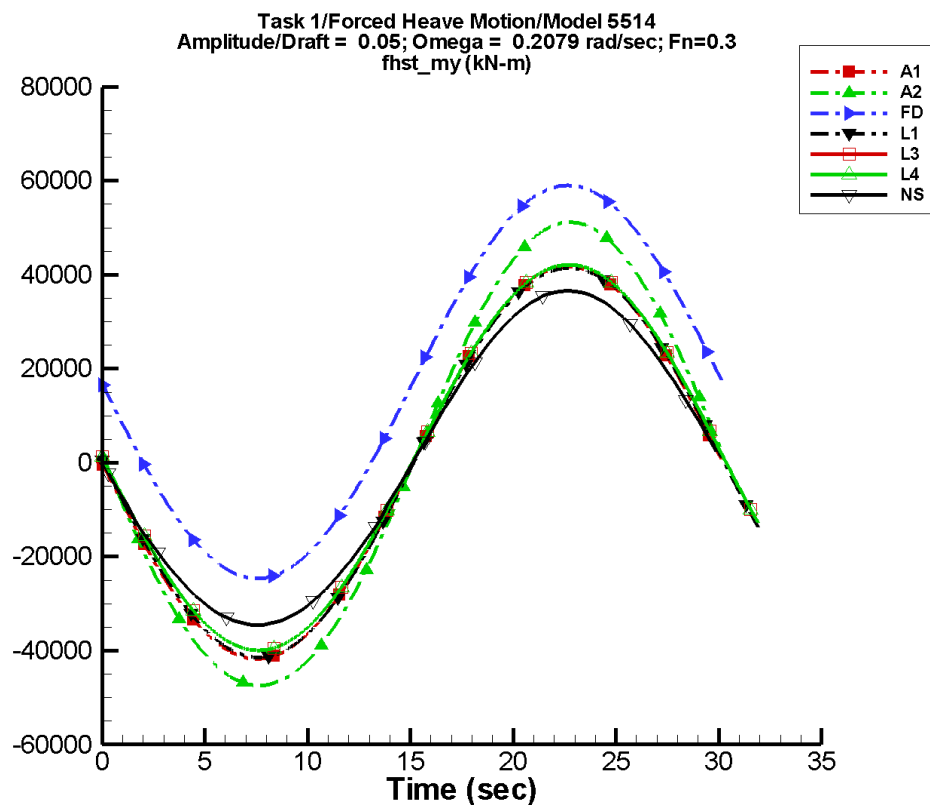
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.665	6.67E+05	180	1.13	167
A2	7.56E+04	3.33E+05	175	7.25E+04	-106
FD	9.38E+04	3.49E+05	-180	7.73E+04	-89
L1	-0.835	6.62E+05	176	0.146	-105
L3	7.86E+04	3.35E+05	176	8.01E+04	-98
L4	7.86E+04	3.35E+05	176	8.01E+04	-98
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–390. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.51E+05	6.46E+05
A2	-1.89E+05	4.60E+05	-1.78E+05	3.95E+05
FD	-1.82E+05	5.04E+05	-1.71E+05	4.33E+05
L1	-6.62E+05	6.62E+05	-6.54E+05	6.54E+05
L3	-1.88E+05	4.81E+05	-1.84E+05	4.44E+05
L4	-1.88E+05	4.81E+05	-1.84E+05	4.44E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-196. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

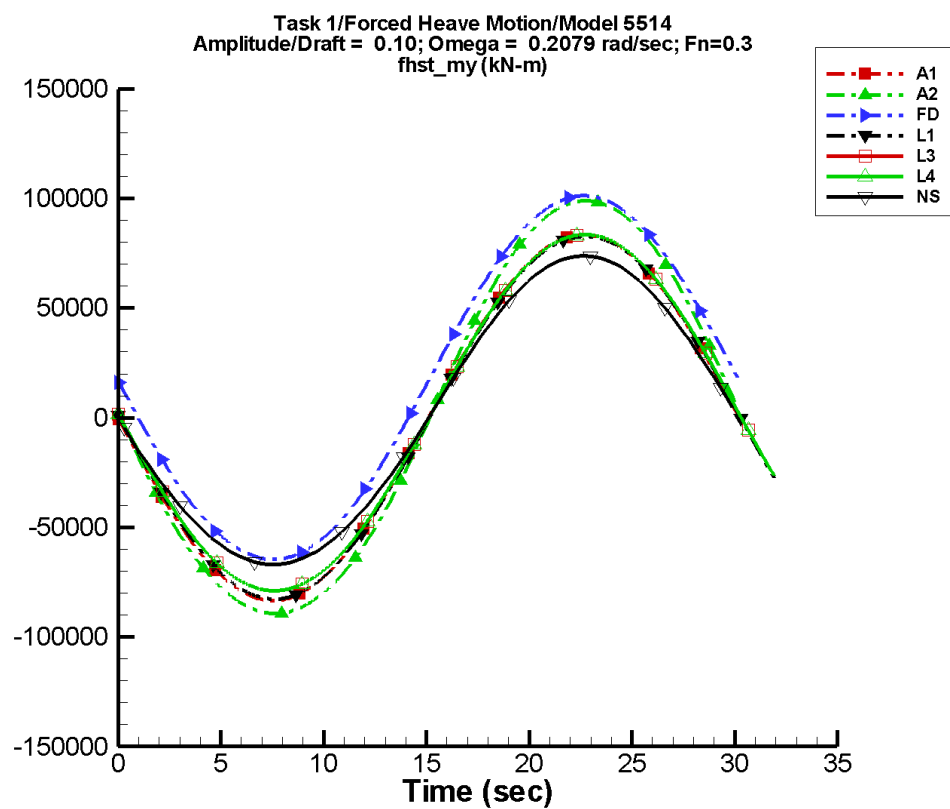
Table B–391. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	3.13E-02	4.18E+04	180	3.80E-02	162
A2	1.25E+03	4.96E+04	179	644.	-95
FD	1.70E+04	4.18E+04	-180	148.	-89
L1	-0.102	4.14E+04	179	2.10E-03	-36
L3	938.	4.10E+04	179	161.	-91
L4	938.	4.10E+04	179	161.	-91
NF	—	—	—	—	—
NS	434.	3.57E+04	180	570.	-90

Table B–392. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.18E+04	-4.18E+04	4.17E+04
A2	-4.74E+04	5.12E+04	-4.74E+04	5.11E+04
FD	-2.46E+04	5.90E+04	-2.46E+04	5.90E+04
L1	-4.14E+04	4.14E+04	-4.14E+04	4.14E+04
L3	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
L4	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-197. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to  $L = 142$  m.

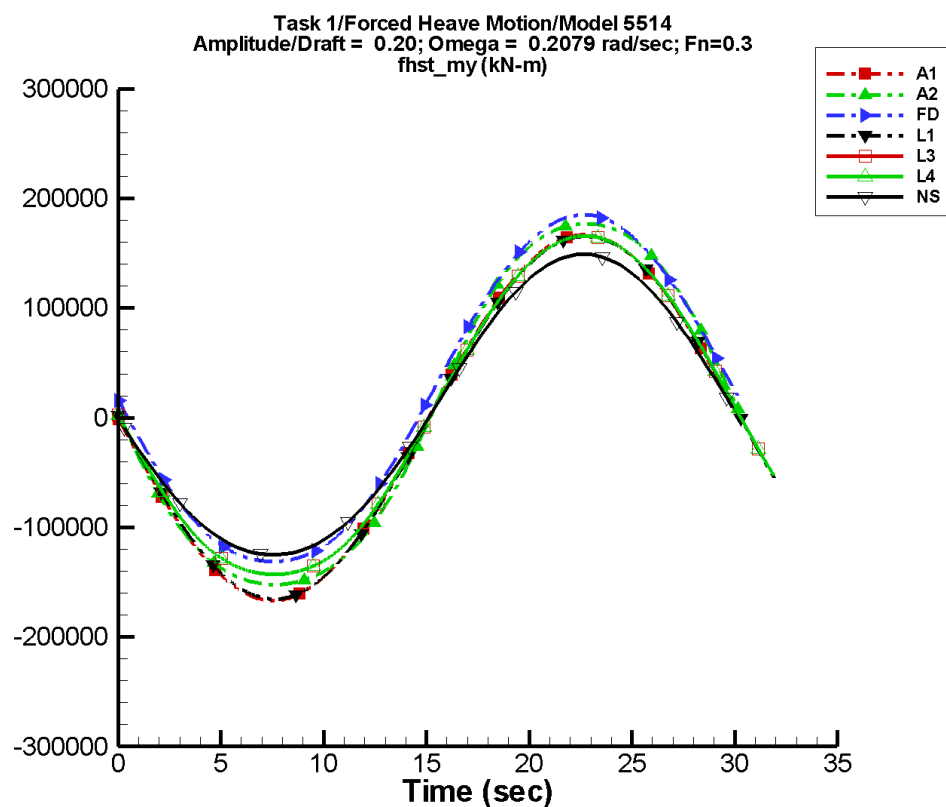
Table B–393. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	7.36E-02	8.34E+04	180	7.34E-02	164
A2	2.83E+03	9.54E+04	179	2.32E+03	-95
FD	1.76E+04	8.32E+04	-180	751.	-88
L1	-0.315	8.27E+04	179	1.83E-02	175
L3	1.49E+03	8.15E+04	179	814.	-92
L4	1.49E+03	8.15E+04	179	814.	-92
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–394. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.34E+04	-8.34E+04	8.33E+04
A2	-8.93E+04	9.90E+04	-8.92E+04	9.89E+04
FD	-6.46E+04	1.01E+05	-6.45E+04	1.01E+05
L1	-8.27E+04	8.27E+04	-8.27E+04	8.27E+04
L3	-7.89E+04	8.35E+04	-7.89E+04	8.35E+04
L4	-7.89E+04	8.35E+04	-7.89E+04	8.35E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-198. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

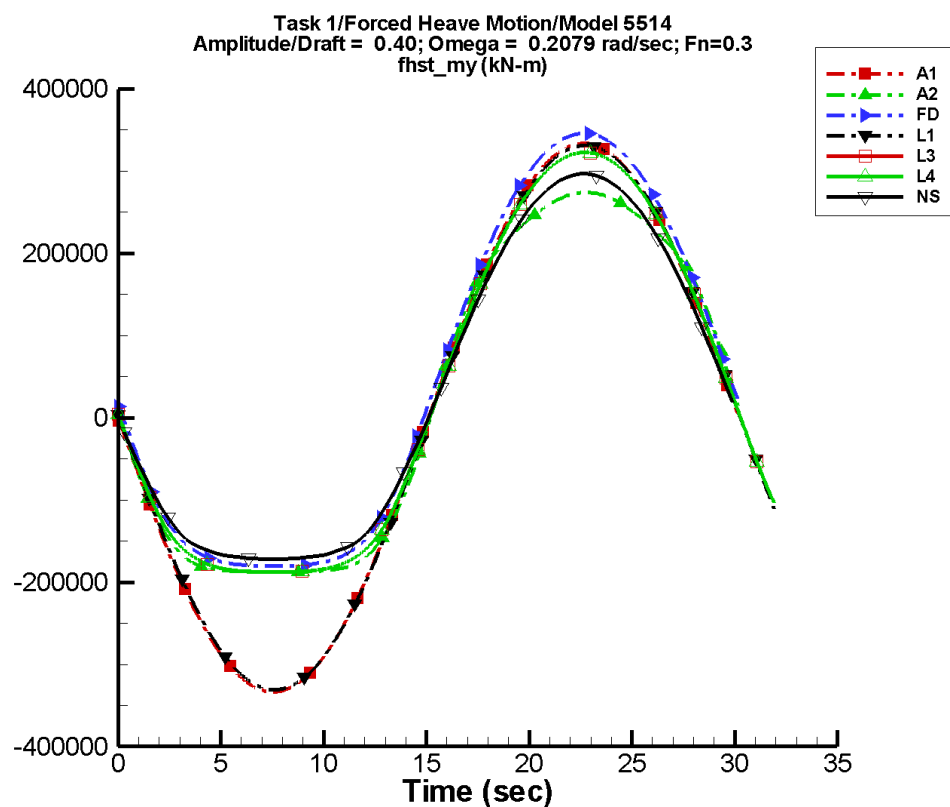
Table B–395. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.144	1.67E+05	180	0.146	166
A2	6.99E+03	1.72E+05	179	6.86E+03	-97
FD	2.11E+04	1.61E+05	-180	5.35E+03	-88
L1	-0.602	1.65E+05	179	1.66E-02	160
L3	5.16E+03	1.57E+05	179	5.93E+03	-92
L4	5.16E+03	1.57E+05	179	5.93E+03	-92
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	-180	5.92E+03	-90

Table B–396. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.67E+05	1.67E+05
A2	-1.52E+05	1.77E+05	-1.52E+05	1.77E+05
FD	-1.31E+05	1.85E+05	-1.31E+05	1.85E+05
L1	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L3	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
L4	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-199. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

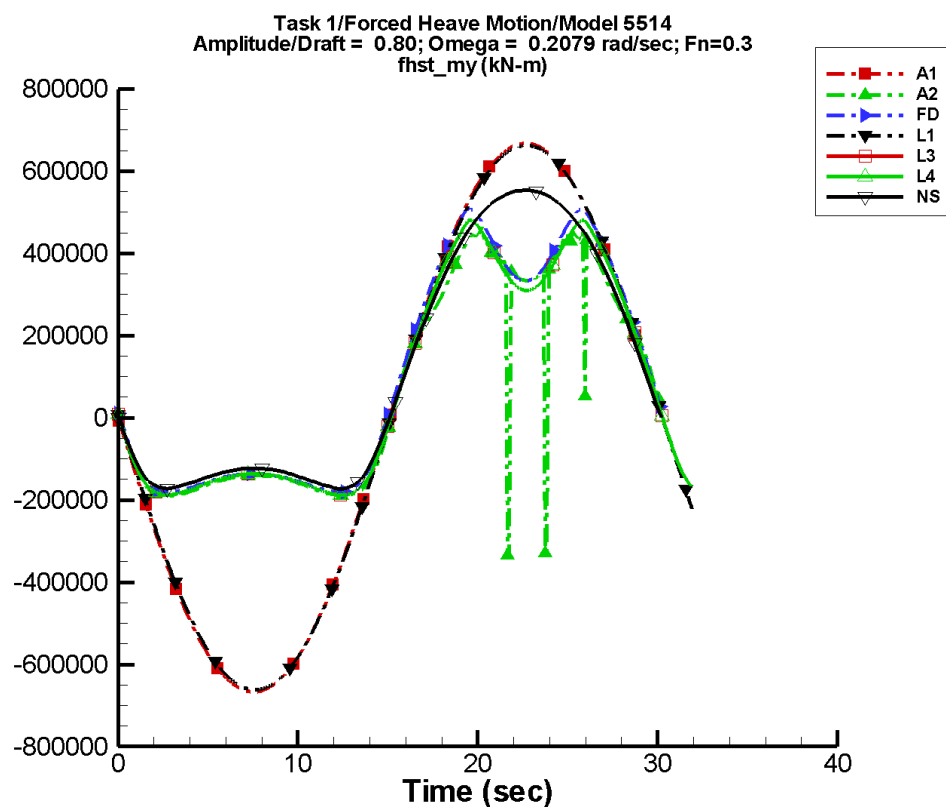
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.282	3.34E+05	180	0.304	162
A2	2.03E+04	2.56E+05	180	2.49E+04	-98
FD	4.64E+04	2.79E+05	-180	3.67E+04	-88
L1	-1.26	3.31E+05	179	2.15E-02	-88
L3	3.09E+04	2.71E+05	179	3.87E+04	-92
L4	3.09E+04	2.71E+05	179	3.87E+04	-92
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–398. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.34E+05	-3.34E+05	3.33E+05
A2	-1.88E+05	2.74E+05	-1.88E+05	2.74E+05
FD	-1.80E+05	3.46E+05	-1.80E+05	3.46E+05
L1	-3.31E+05	3.31E+05	-3.31E+05	3.31E+05
L3	-1.88E+05	3.23E+05	-1.88E+05	3.23E+05
L4	-1.88E+05	3.23E+05	-1.88E+05	3.23E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-200. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

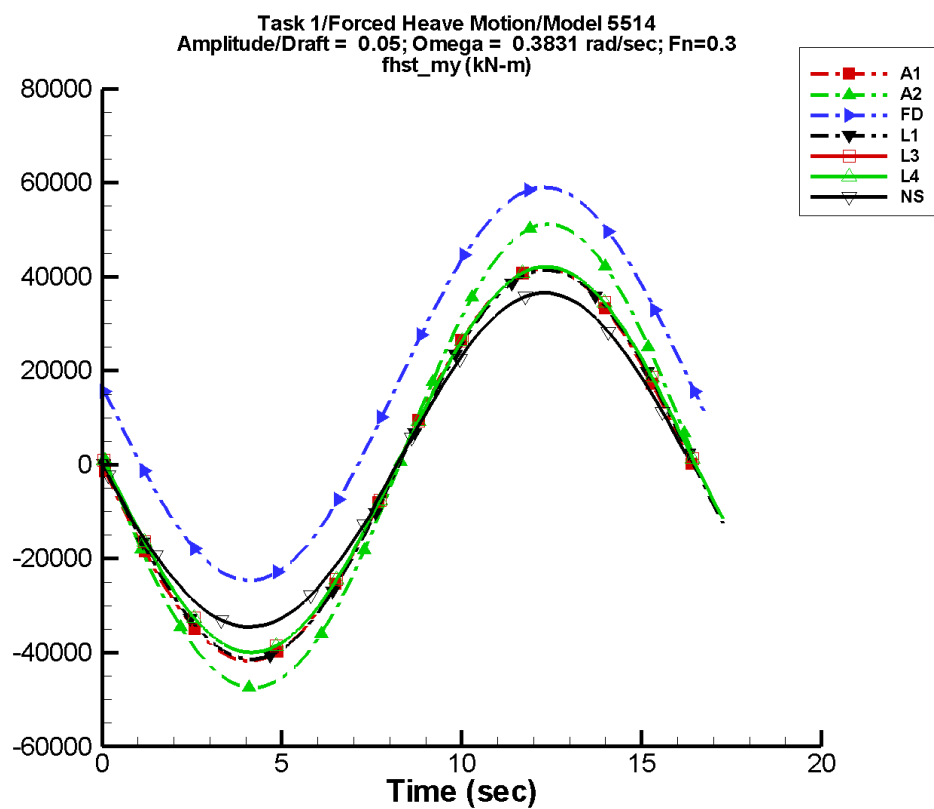
Table B–399. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.603	6.67E+05	180	0.586	161
A2	6.39E+04	3.10E+05	-179	5.82E+04	-95
FD	9.60E+04	3.49E+05	-178	6.90E+04	-79
L1	-2.49	6.62E+05	179	0.100	173
L3	8.23E+04	3.33E+05	-179	7.33E+04	-94
L4	8.23E+04	3.33E+05	-179	7.33E+04	-94
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–400. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.67E+05	6.67E+05
A2	-3.35E+05	4.63E+05	-1.89E+05	4.48E+05
FD	-1.82E+05	5.09E+05	-1.81E+05	5.02E+05
L1	-6.62E+05	6.62E+05	-6.62E+05	6.62E+05
L3	-1.88E+05	4.81E+05	-1.88E+05	4.78E+05
L4	-1.88E+05	4.81E+05	-1.88E+05	4.78E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-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 5514 scaled to  $L = 142$  m.

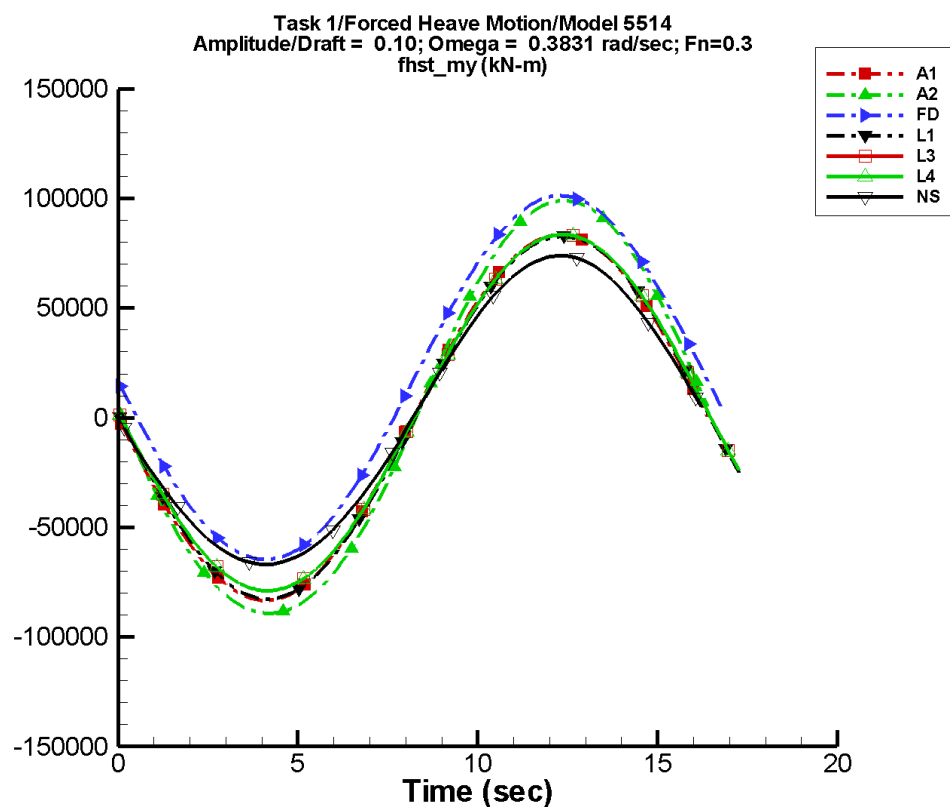
Table B–401. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.96E-04	4.18E+04	-180	6.66E-03	55
A2	1.25E+03	4.96E+04	178	646.	-97
FD	1.70E+04	4.18E+04	-180	147.	-90
L1	-0.148	4.14E+04	179	5.25E-03	150
L3	938.	4.10E+04	179	159.	-93
L4	938.	4.10E+04	179	159.	-93
NF	—	—	—	—	—
NS	431.	3.57E+04	180	575.	-90

Table B–402. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.18E+04	-4.19E+04	4.16E+04
A2	-4.74E+04	5.12E+04	-4.75E+04	5.10E+04
FD	-2.46E+04	5.90E+04	-2.45E+04	5.89E+04
L1	-4.14E+04	4.14E+04	-4.14E+04	4.14E+04
L3	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
L4	-3.99E+04	4.21E+04	-3.99E+04	4.21E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-202. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

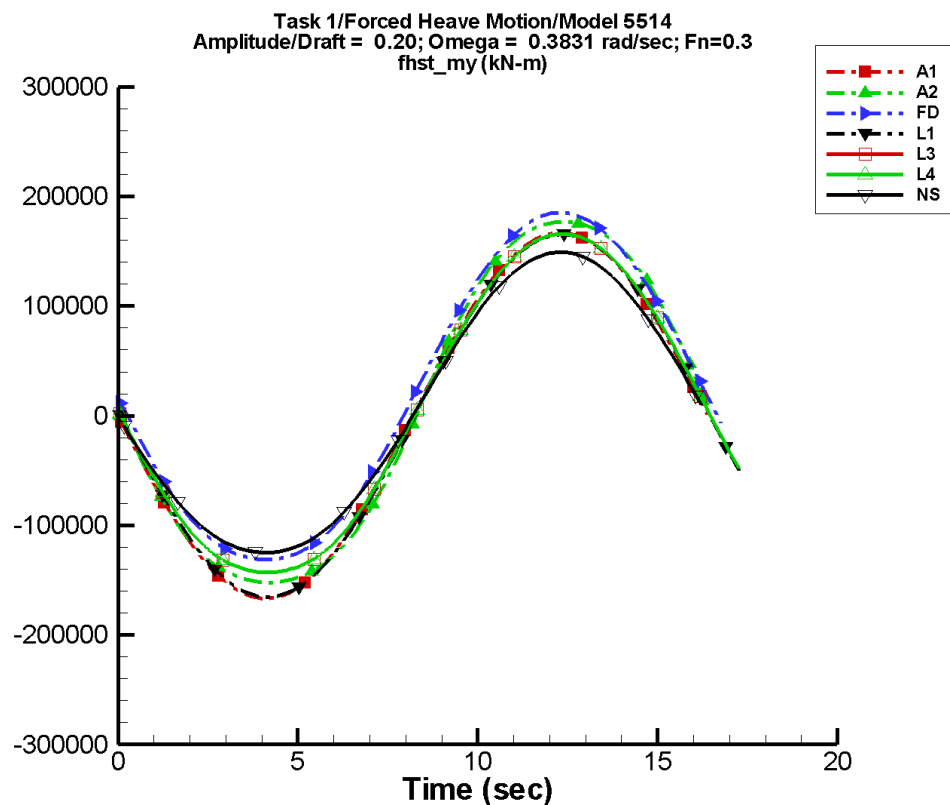
Table B–403. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-7.90E-03	8.34E+04	-180	6.09E-03	34
A2	2.83E+03	9.54E+04	178	2.33E+03	-97
FD	1.76E+04	8.32E+04	-180	737.	-89
L1	-0.282	8.27E+04	179	4.72E-03	58
L3	1.49E+03	8.15E+04	179	771.	-95
L4	1.49E+03	8.15E+04	179	771.	-95
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–404. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.34E+04	-8.36E+04	8.31E+04
A2	-8.93E+04	9.90E+04	-8.94E+04	9.86E+04
FD	-6.46E+04	1.01E+05	-6.43E+04	1.01E+05
L1	-8.27E+04	8.27E+04	-8.26E+04	8.26E+04
L3	-7.89E+04	8.35E+04	-7.88E+04	8.34E+04
L4	-7.89E+04	8.35E+04	-7.88E+04	8.34E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-203. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

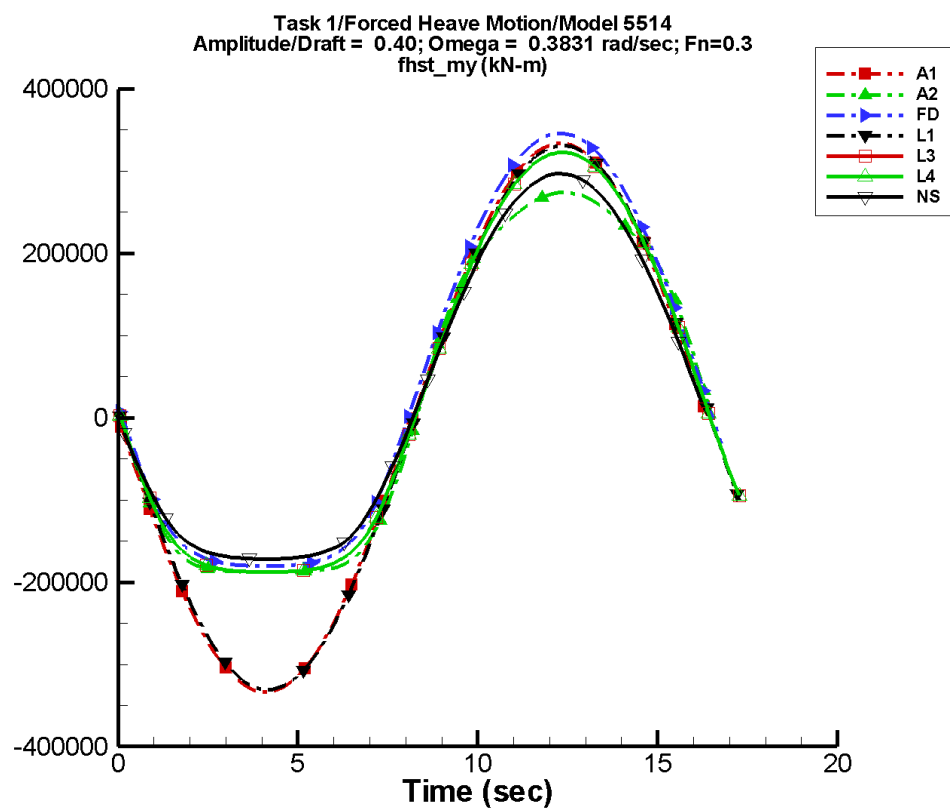
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.68E-02	1.67E+05	-180	1.97E-02	24
A2	6.94E+03	1.72E+05	178	6.88E+03	-101
FD	2.10E+04	1.61E+05	-180	5.21E+03	-88
L1	-0.569	1.65E+05	179	2.30E-02	72
L3	5.14E+03	1.58E+05	179	5.40E+03	-96
L4	5.14E+03	1.58E+05	179	5.40E+03	-96
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	180	5.92E+03	-90

Table B–406. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.67E+05	1.66E+05
A2	-1.54E+05	1.77E+05	-1.53E+05	1.77E+05
FD	-1.31E+05	1.85E+05	-1.31E+05	1.85E+05
L1	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05
L3	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
L4	-1.43E+05	1.66E+05	-1.43E+05	1.66E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-204. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

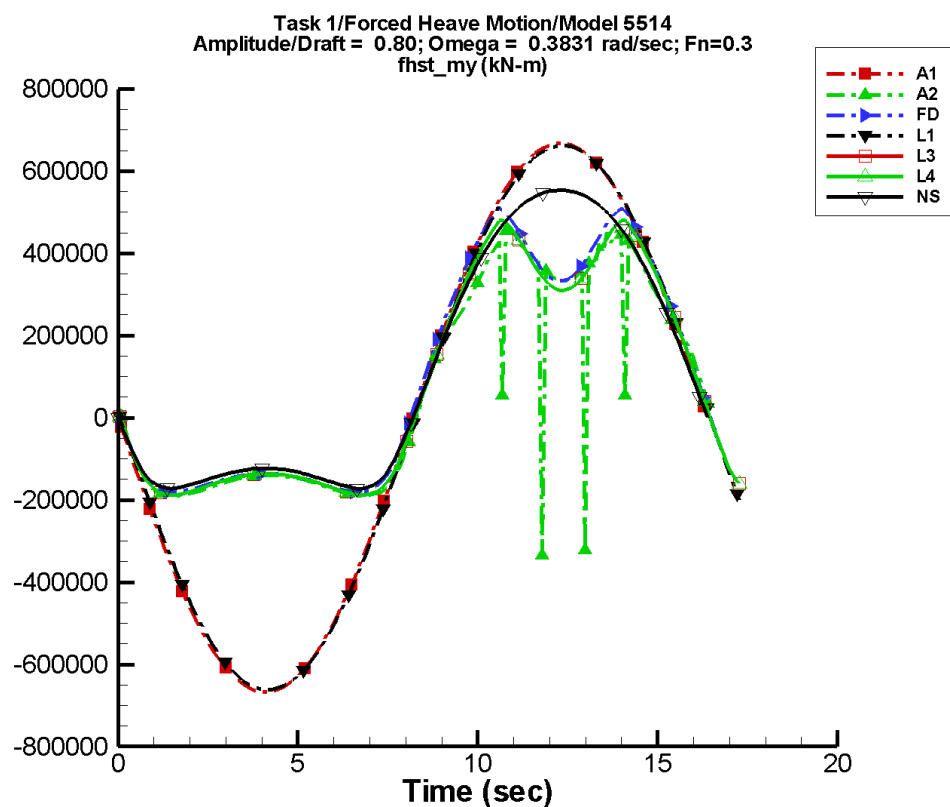
Table B–407. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-4.90E-02	3.34E+05	-180	4.13E-02	-5
A2	2.04E+04	2.56E+05	179	2.51E+04	-100
FD	4.62E+04	2.78E+05	-180	3.57E+04	-88
L1	-1.09	3.31E+05	179	3.27E-02	-90
L3	3.06E+04	2.72E+05	179	3.59E+04	-96
L4	3.06E+04	2.72E+05	179	3.59E+04	-96
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–408. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.34E+05	-3.35E+05	3.32E+05
A2	-1.88E+05	2.74E+05	-1.89E+05	2.73E+05
FD	-1.80E+05	3.46E+05	-1.80E+05	3.45E+05
L1	-3.31E+05	3.31E+05	-3.30E+05	3.30E+05
L3	-1.88E+05	3.23E+05	-1.88E+05	3.22E+05
L4	-1.88E+05	3.23E+05	-1.88E+05	3.22E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-205. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

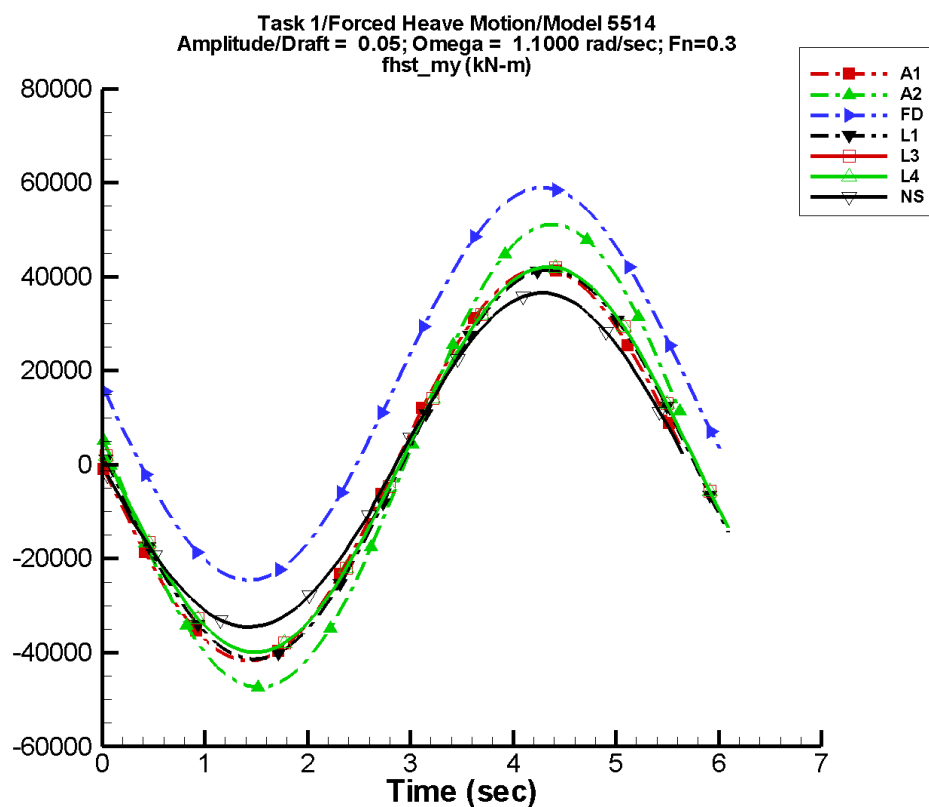
Table B–409. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.54E-02	6.67E+05	-180	5.15E-02	-8
A2	6.13E+04	3.05E+05	180	5.79E+04	-100
FD	9.60E+04	3.46E+05	-179	5.87E+04	-84
L1	-2.27	6.62E+05	179	6.41E-02	-55
L3	7.99E+04	3.40E+05	-180	6.35E+04	-99
L4	7.99E+04	3.40E+05	-180	6.35E+04	-99
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–410. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.69E+05	6.65E+05
A2	-3.34E+05	4.64E+05	-1.87E+05	4.09E+05
FD	-1.82E+05	5.09E+05	-1.80E+05	4.92E+05
L1	-6.62E+05	6.62E+05	-6.61E+05	6.61E+05
L3	-1.88E+05	4.81E+05	-1.87E+05	4.73E+05
L4	-1.88E+05	4.81E+05	-1.87E+05	4.73E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-206. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

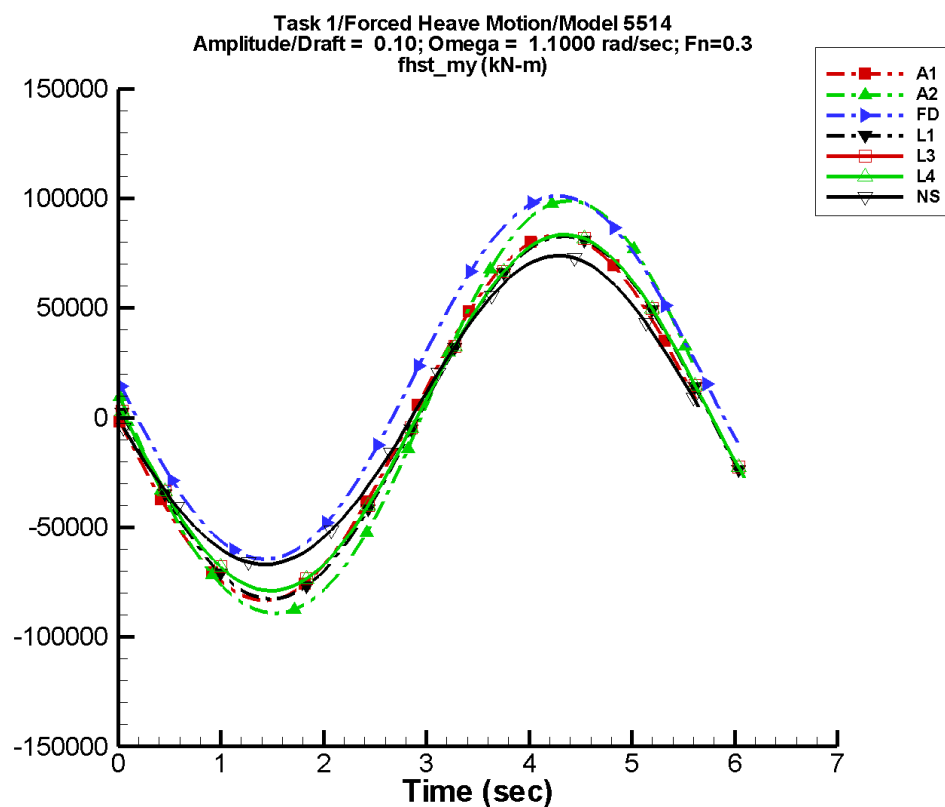
Table B–411. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	4.45E-02	4.18E+04	180	6.81E-02	168
A2	1.24E+03	4.96E+04	174	629.	-105
FD	1.70E+04	4.18E+04	180	149.	-90
L1	-3.67E-02	4.14E+04	176	5.61E-03	-161
L3	937.	4.10E+04	176	161.	-97
L4	937.	4.10E+04	176	161.	-97
NF	—	—	—	—	—
NS	431.	3.57E+04	180	575.	-90

Table B–412. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.18E+04	4.17E+04	-4.08E+04	4.05E+04
A2	-4.74E+04	5.11E+04	-4.60E+04	4.96E+04
FD	-2.46E+04	5.90E+04	-2.33E+04	5.77E+04
L1	-4.14E+04	4.14E+04	-4.09E+04	4.10E+04
L3	-3.99E+04	4.21E+04	-3.95E+04	4.17E+04
L4	-3.99E+04	4.21E+04	-3.95E+04	4.17E+04
NF	—	—	—	—
NS	-3.46E+04	3.66E+04	-3.42E+04	3.62E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-207. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

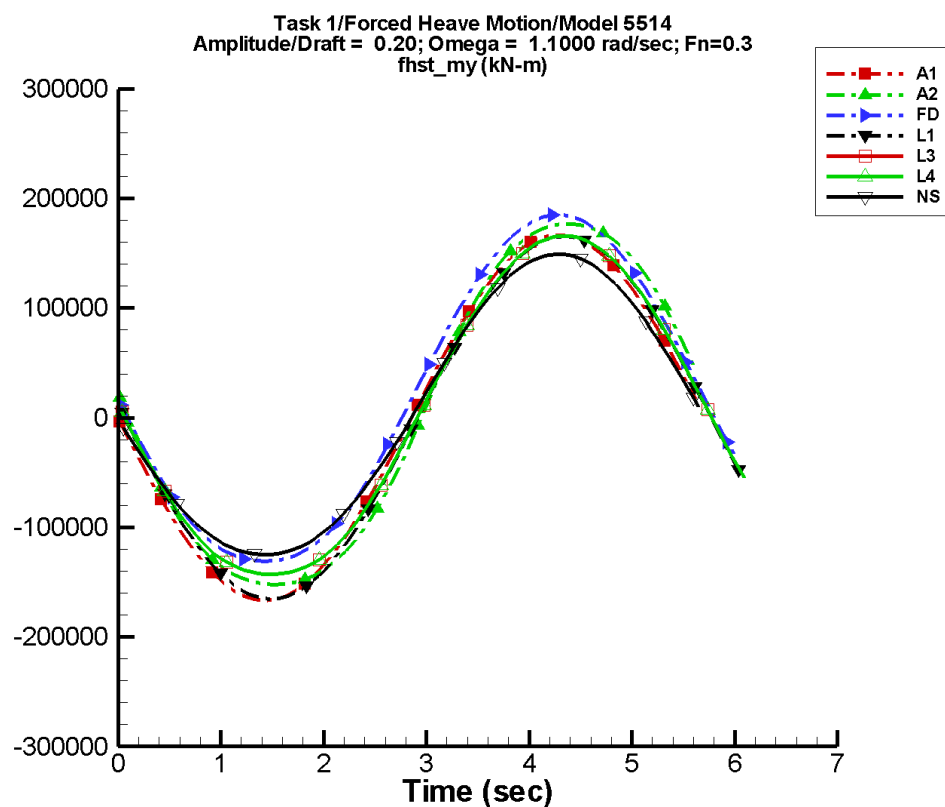
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	8.39E-02	8.34E+04	180	0.140	167
A2	2.82E+03	9.55E+04	174	2.27E+03	-105
FD	1.76E+04	8.32E+04	-180	772.	-90
L1	-0.111	8.27E+04	176	1.80E-02	-101
L3	1.49E+03	8.14E+04	176	817.	-98
L4	1.49E+03	8.14E+04	176	817.	-98
NF	—	—	—	—	—
NS	1.79E+03	7.06E+04	180	1.77E+03	-90

Table B–414. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.34E+04	8.33E+04	-8.14E+04	8.08E+04
A2	-8.93E+04	9.89E+04	-8.67E+04	9.61E+04
FD	-6.46E+04	1.01E+05	-6.21E+04	9.86E+04
L1	-8.27E+04	8.27E+04	-8.18E+04	8.18E+04
L3	-7.89E+04	8.35E+04	-7.80E+04	8.26E+04
L4	-7.89E+04	8.35E+04	-7.80E+04	8.26E+04
NF	—	—	—	—
NS	-6.69E+04	7.38E+04	-6.63E+04	7.31E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-208. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

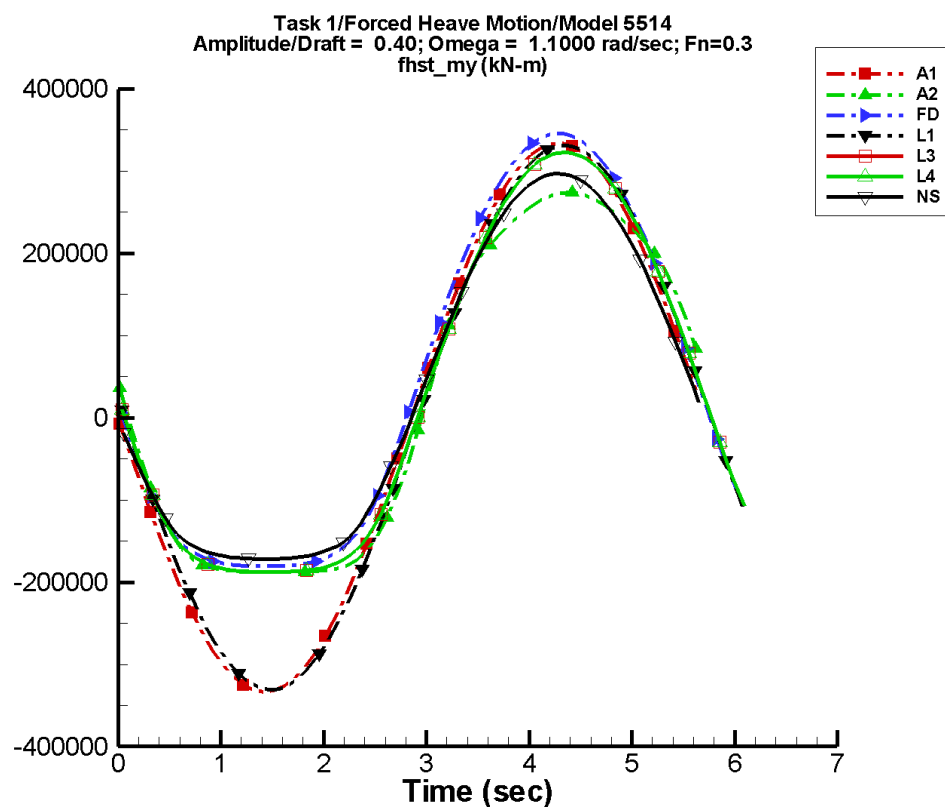
Table B–415. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.173	1.67E+05	180	0.283	167
A2	6.95E+03	1.72E+05	174	6.57E+03	-108
FD	2.10E+04	1.61E+05	-180	5.57E+03	-89
L1	-0.240	1.65E+05	176	2.30E-02	-16
L3	5.13E+03	1.57E+05	176	5.94E+03	-98
L4	5.13E+03	1.57E+05	176	5.94E+03	-98
NF	—	—	—	—	—
NS	6.18E+03	1.38E+05	180	5.92E+03	-90

Table B–416. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.67E+05	1.67E+05	-1.63E+05	1.62E+05
A2	-1.52E+05	1.77E+05	-1.49E+05	1.73E+05
FD	-1.31E+05	1.85E+05	-1.28E+05	1.80E+05
L1	-1.65E+05	1.65E+05	-1.64E+05	1.64E+05
L3	-1.43E+05	1.66E+05	-1.42E+05	1.64E+05
L4	-1.43E+05	1.66E+05	-1.42E+05	1.64E+05
NF	—	—	—	—
NS	-1.25E+05	1.49E+05	-1.24E+05	1.48E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-209. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

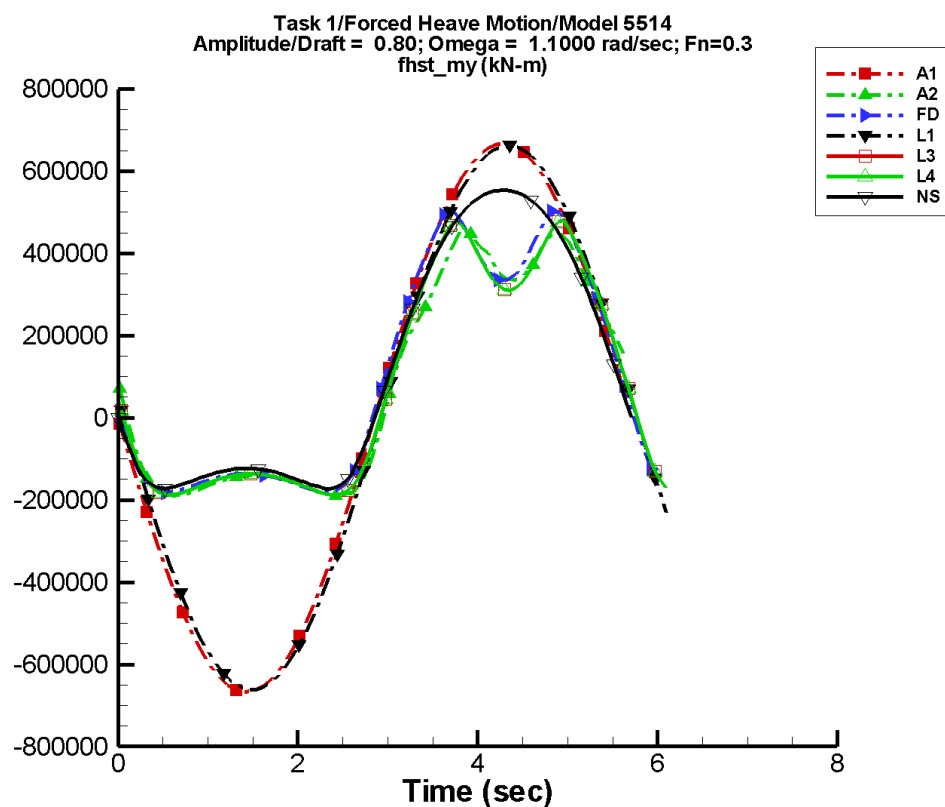
Table B–417. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.347	3.34E+05	180	0.565	167
A2	2.02E+04	2.57E+05	174	2.36E+04	-109
FD	4.63E+04	2.79E+05	-180	3.83E+04	-89
L1	-0.473	3.31E+05	176	6.65E-02	177
L3	3.05E+04	2.71E+05	176	3.93E+04	-98
L4	3.05E+04	2.71E+05	176	3.93E+04	-98
NF	—	—	—	—	—
NS	2.98E+04	2.46E+05	180	3.18E+04	-90

Table B–418. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.34E+05	3.33E+05	-3.26E+05	3.23E+05
A2	-1.88E+05	2.74E+05	-1.90E+05	2.66E+05
FD	-1.80E+05	3.46E+05	-1.79E+05	3.36E+05
L1	-3.31E+05	3.31E+05	-3.27E+05	3.27E+05
L3	-1.88E+05	3.23E+05	-1.87E+05	3.19E+05
L4	-1.88E+05	3.23E+05	-1.87E+05	3.19E+05
NF	—	—	—	—
NS	-1.72E+05	2.97E+05	-1.72E+05	2.94E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-210. Time history of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

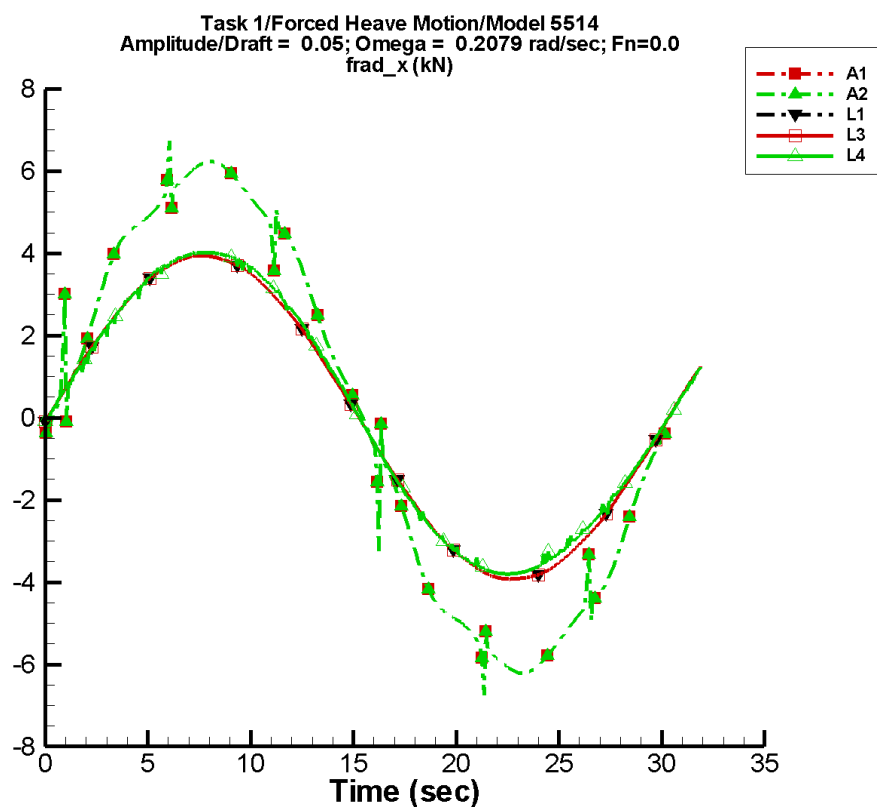
Table B–419. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{hst}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	0.665	6.67E+05	180	1.13	167
A2	7.56E+04	3.33E+05	175	7.25E+04	-106
FD	9.38E+04	3.49E+05	-180	7.73E+04	-89
L1	-0.835	6.62E+05	176	0.146	-105
L3	7.86E+04	3.35E+05	176	8.01E+04	-98
L4	7.86E+04	3.35E+05	176	8.01E+04	-98
NF	—	—	—	—	—
NS	1.15E+05	3.75E+05	180	1.10E+05	-90

Table B–420. Minimum and maximum of  $M_y^{\text{hst}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.67E+05	6.67E+05	-6.51E+05	6.46E+05
A2	-1.89E+05	4.60E+05	-1.78E+05	3.95E+05
FD	-1.82E+05	5.04E+05	-1.71E+05	4.33E+05
L1	-6.62E+05	6.62E+05	-6.54E+05	6.54E+05
L3	-1.88E+05	4.81E+05	-1.84E+05	4.44E+05
L4	-1.88E+05	4.81E+05	-1.84E+05	4.44E+05
NF	—	—	—	—
NS	-1.73E+05	5.53E+05	-1.70E+05	5.51E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-211. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

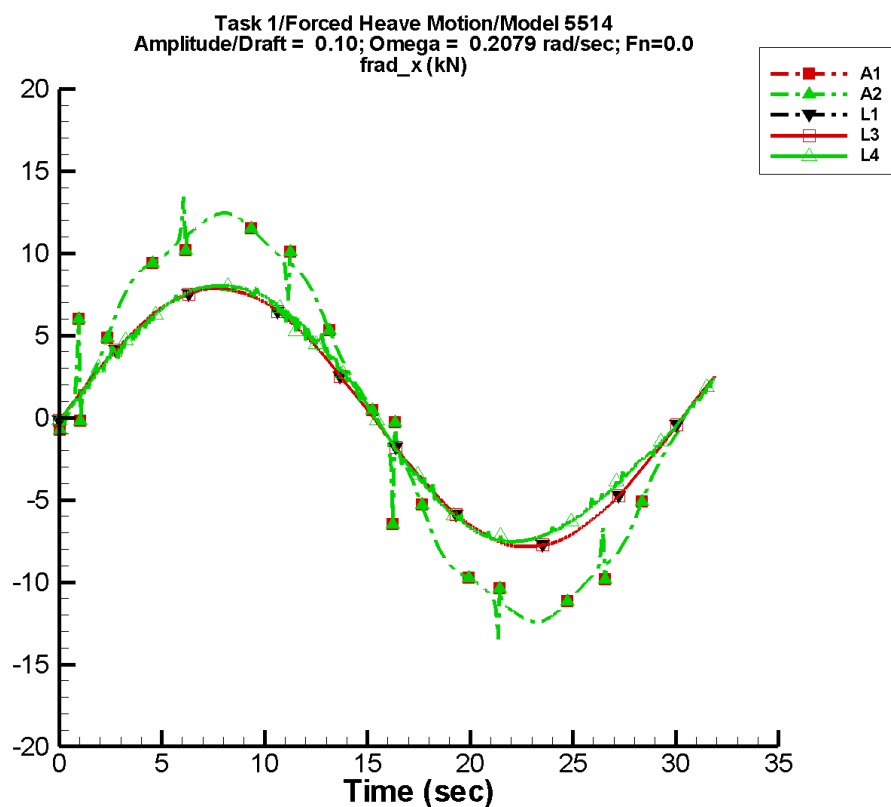
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.91E-03	6.08	-3	4.86E-03	147
A2	-2.91E-03	6.08	-3	4.86E-03	147
FD	—	—	—	—	—
L1	7.53E-03	3.93	-2	5.39E-03	84
L3	7.53E-03	3.93	-2	5.39E-03	84
L4	8.04E-02	3.91	-2	0.111	-156
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–422. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.74	6.73	-6.19	6.22
A2	-6.74	6.73	-6.19	6.22
FD	—	—	—	—
L1	-3.93	3.95	-3.92	3.94
L3	-3.93	3.95	-3.92	3.94
L4	-3.80	4.02	-3.80	4.02
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-212. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

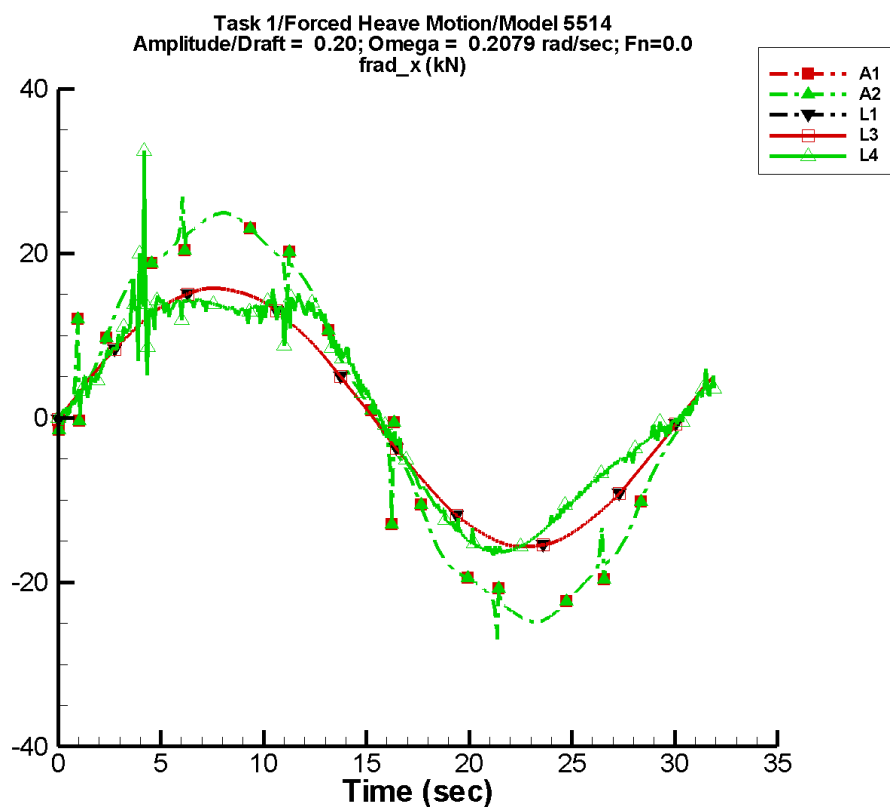
Table B–423. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.80E-03	12.1	-3	9.70E-03	147
A2	-5.80E-03	12.1	-3	9.70E-03	147
FD	—	—	—	—	—
L1	3.00E-02	7.86	-2	2.57E-02	88
L3	3.00E-02	7.86	-2	2.57E-02	88
L4	0.233	7.72	-1	0.380	-171
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–424. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-13.5	13.4	-12.4	12.4
A2	-13.5	13.4	-12.4	12.4
FD	—	—	—	—
L1	-7.84	7.88	-7.83	7.88
L3	-7.84	7.88	-7.83	7.88
L4	-7.55	8.05	-7.53	8.02
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-213. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

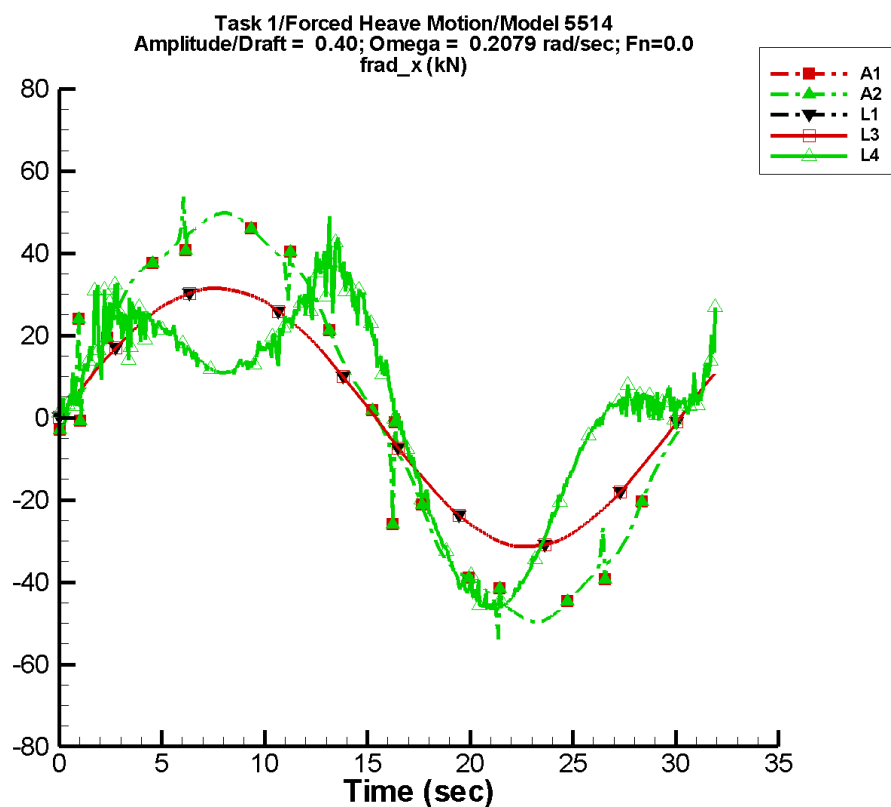
Table B–425. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.16E-02	24.3	-3	1.94E-02	147
A2	-1.16E-02	24.3	-3	1.94E-02	147
FD	—	—	—	—	—
L1	0.120	15.7	-2	0.112	90
L3	0.120	15.7	-2	0.112	90
L4	0.867	15.1	0	1.85	139
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–426. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-26.9	26.9	-24.7	24.8
A2	-26.9	26.9	-24.7	24.8
FD	—	—	—	—
L1	-15.7	15.8	-15.7	15.8
L3	-15.7	15.8	-15.7	15.8
L4	-16.7	32.4	-16.2	15.4
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-214. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

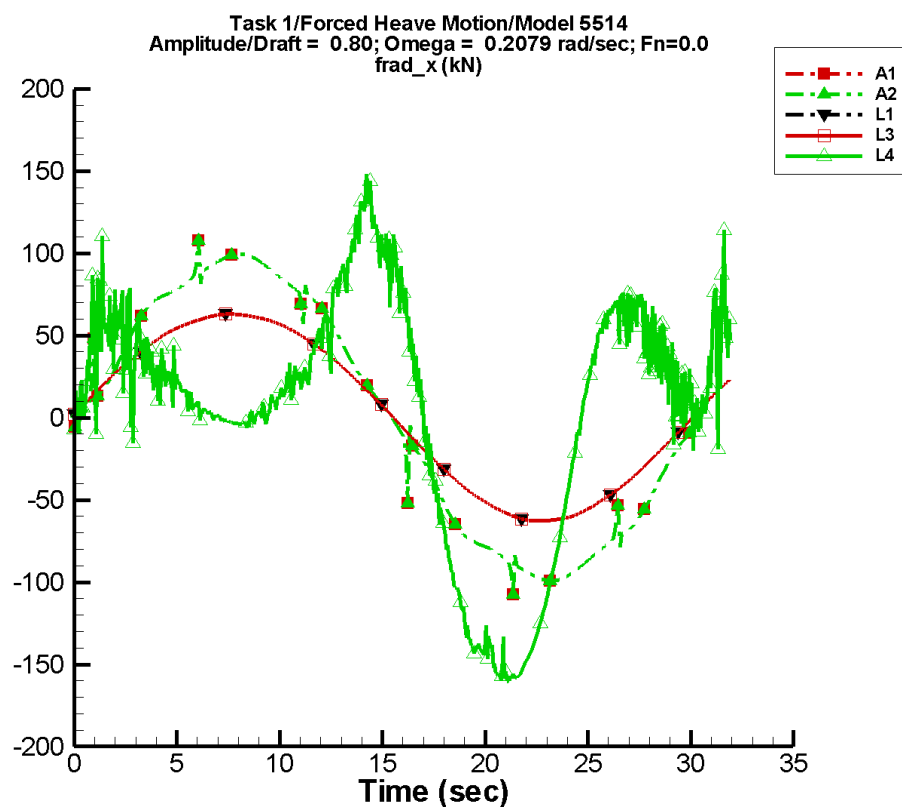
Table B–427. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.32E-02	48.5	-3	3.88E-02	147
A2	-2.32E-02	48.5	-3	3.88E-02	147
FD	—	—	—	—	—
L1	0.480	31.4	-2	0.464	90
L3	0.480	31.4	-2	0.464	90
L4	1.92	27.4	4	15.1	116
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–428. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-53.9	53.8	-49.5	49.7
A2	-53.9	53.8	-49.5	49.7
FD	—	—	—	—
L1	-31.4	31.5	-31.3	31.5
L3	-31.4	31.5	-31.3	31.5
L4	-46.7	63.2	-46.0	38.0
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-215. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

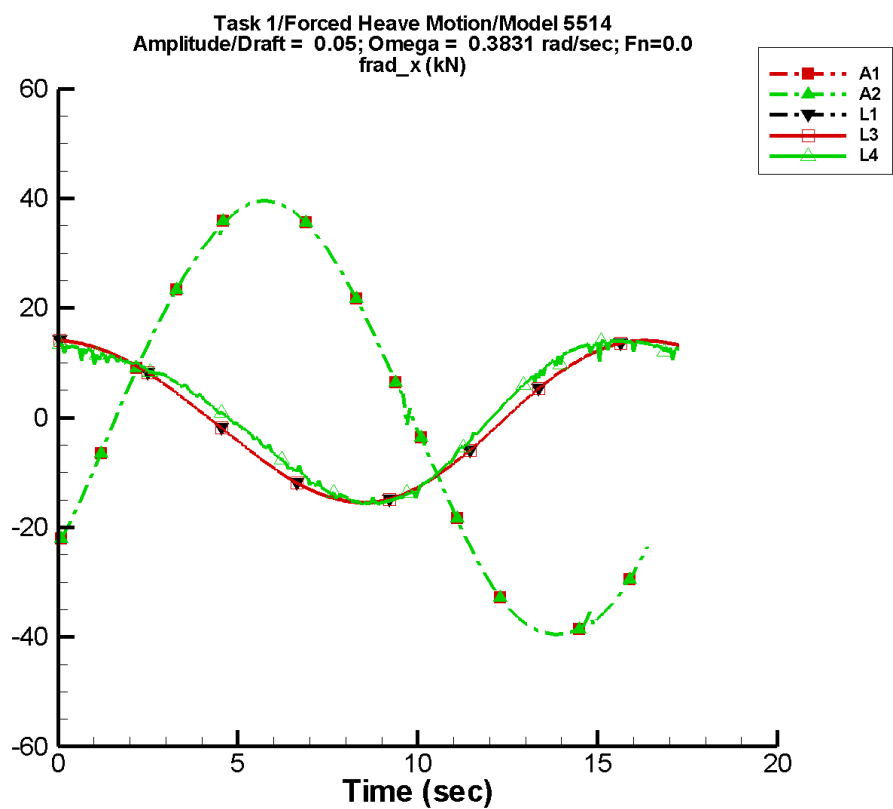
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-4.64E-02	97.1	-3	7.76E-02	147
A2	-4.64E-02	97.1	-3	7.76E-02	147
FD	—	—	—	—	—
L1	1.92	62.9	-2	1.89	91
L3	1.92	62.9	-2	1.89	91
L4	1.95	52.9	17	67.2	120
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–430. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-108.	108.	-98.9	99.3
A2	-108.	108.	-98.9	99.3
FD	—	—	—	—
L1	-62.7	63.1	-62.7	63.0
L3	-62.7	63.1	-62.7	63.0
L4	-161.	148.	-158.	134.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-216. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

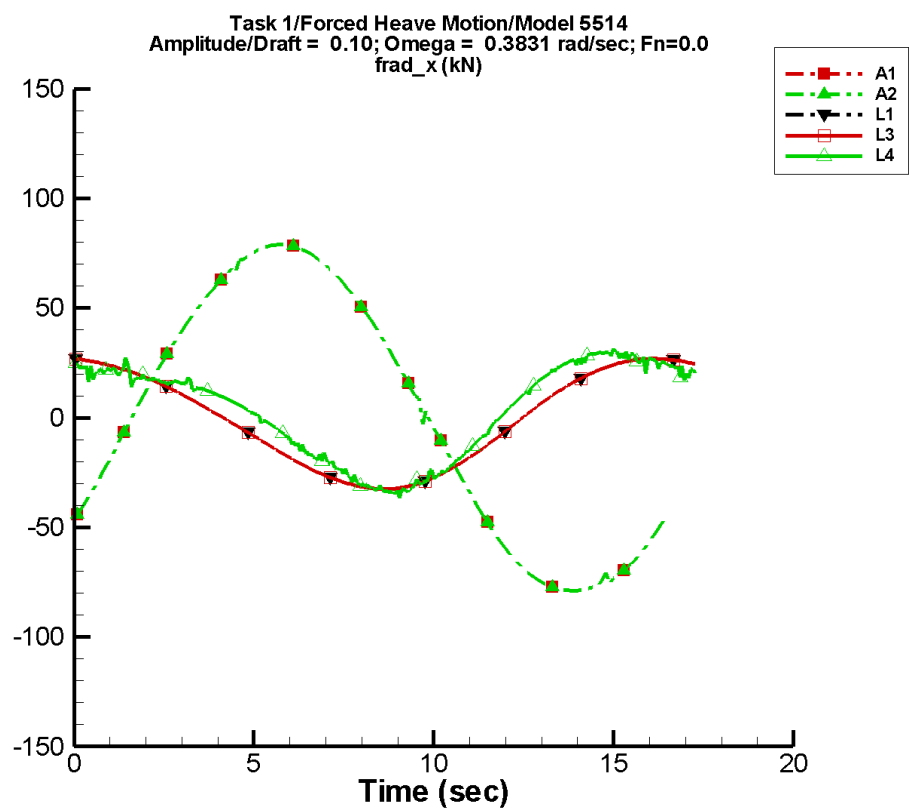
Table B–431. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.111	39.6	-36	0.200	21
A2	-0.111	39.6	-36	0.200	21
FD	—	—	—	—	—
L1	-0.446	14.7	87	0.541	-156
L3	-0.446	14.7	87	0.541	-156
L4	0.744	14.3	87	2.39	-134
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–432. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-39.5	39.6	-39.4	39.4
A2	-39.5	39.6	-39.4	39.4
FD	—	—	—	—
L1	-15.5	14.1	-15.5	14.1
L3	-15.5	14.1	-15.5	14.1
L4	-15.8	14.0	-15.5	13.9
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-217. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

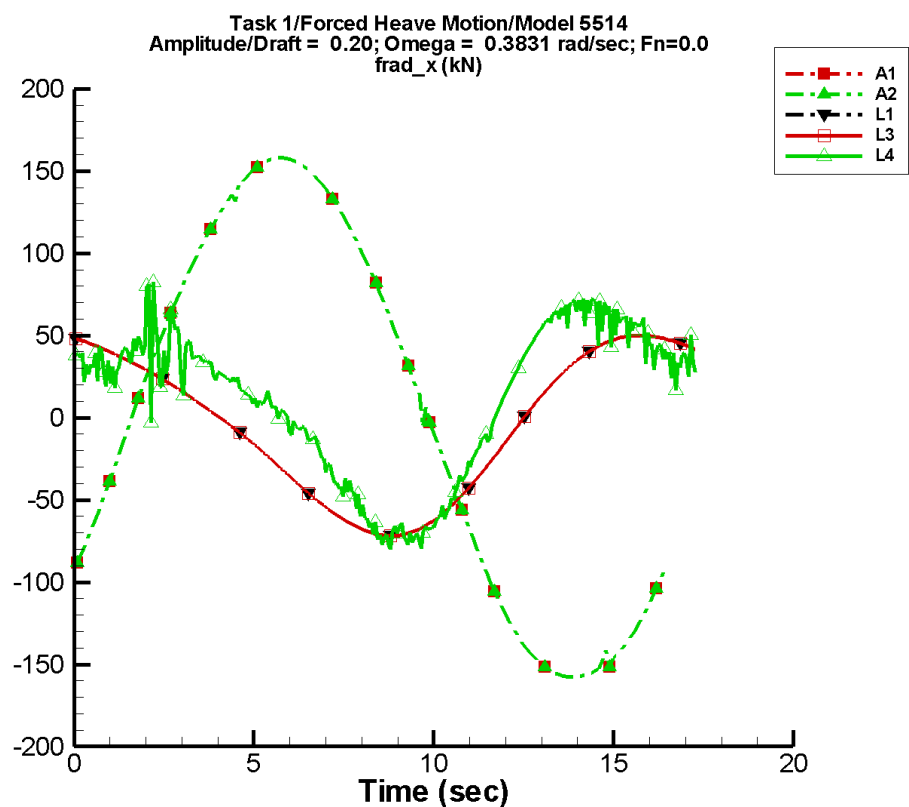
Table B–433. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.222	79.1	-36	0.399	21
A2	-0.222	79.1	-36	0.399	21
FD	—	—	—	—	—
L1	-1.75	29.4	87	2.19	-155
L3	-1.75	29.4	87	2.19	-155
L4	2.64	28.4	88	8.42	-134
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–434. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-78.9	79.0	-78.7	78.7
A2	-78.9	79.0	-78.7	78.7
FD	—	—	—	—
L1	-32.5	26.9	-32.5	26.9
L3	-32.5	26.9	-32.5	26.9
L4	-36.7	31.5	-34.0	29.7
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-218. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

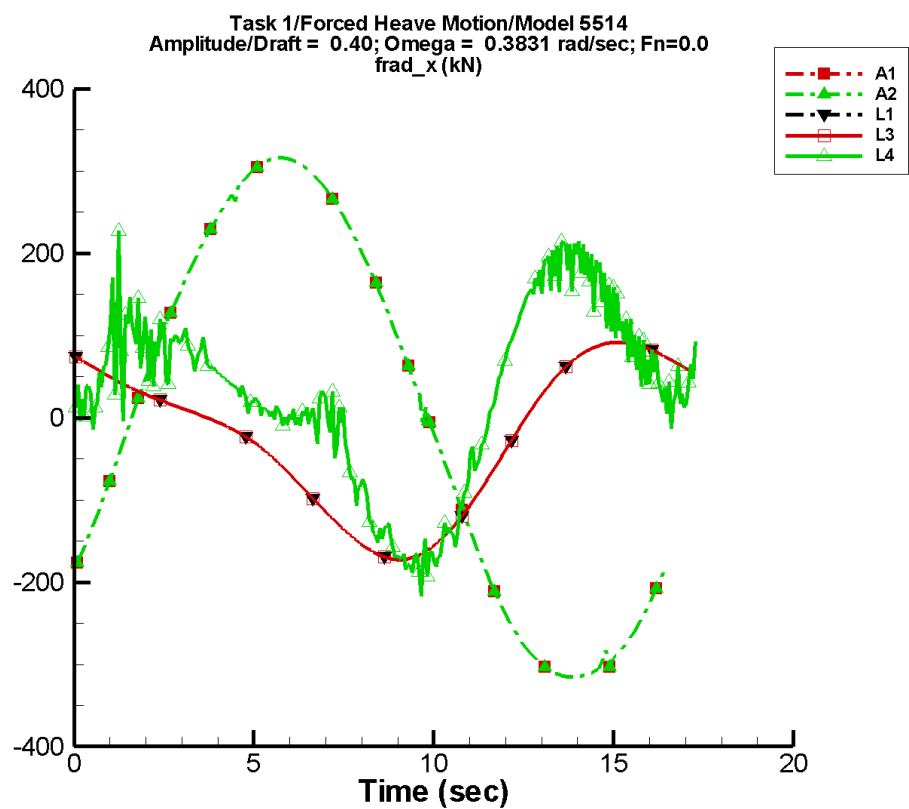
Table B–435. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.443	158.	-36	0.799	21
A2	-0.443	158.	-36	0.799	21
FD	—	—	—	—	—
L1	-6.95	58.9	87	8.81	-155
L3	-6.95	58.9	87	8.81	-155
L4	9.98	55.9	85	27.8	-132
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–436. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-158.	158.	-157.	157.
A2	-158.	158.	-157.	157.
FD	—	—	—	—
L1	-71.9	50.1	-71.8	50.0
L3	-71.9	50.1	-71.8	50.0
L4	-80.1	82.5	-73.6	67.7
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-219. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

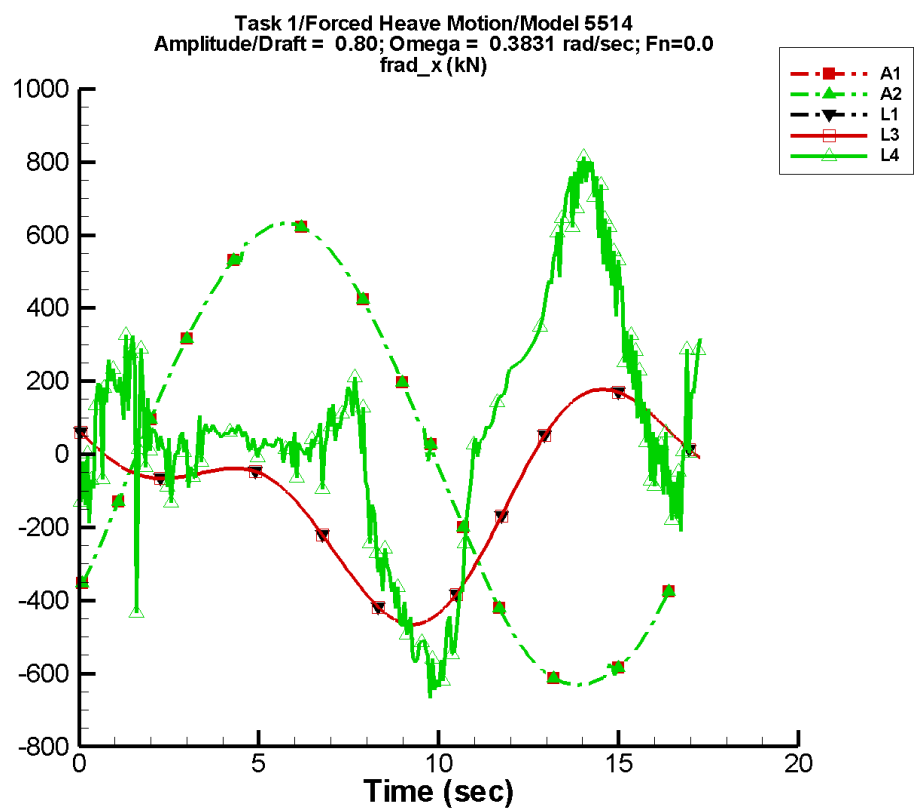
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.886	316.	-36	1.60	21
A2	-0.886	316.	-36	1.60	21
FD	—	—	—	—	—
L1	-27.7	118.	87	35.3	-155
L3	-27.7	118.	87	35.3	-155
L4	29.9	113.	88	77.7	-136
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–438. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-316.	316.	-315.	315.
A2	-316.	316.	-315.	315.
FD	—	—	—	—
L1	-173.	91.7	-172.	91.4
L3	-173.	91.7	-172.	91.4
L4	-217.	227.	-179.	197.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-220. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

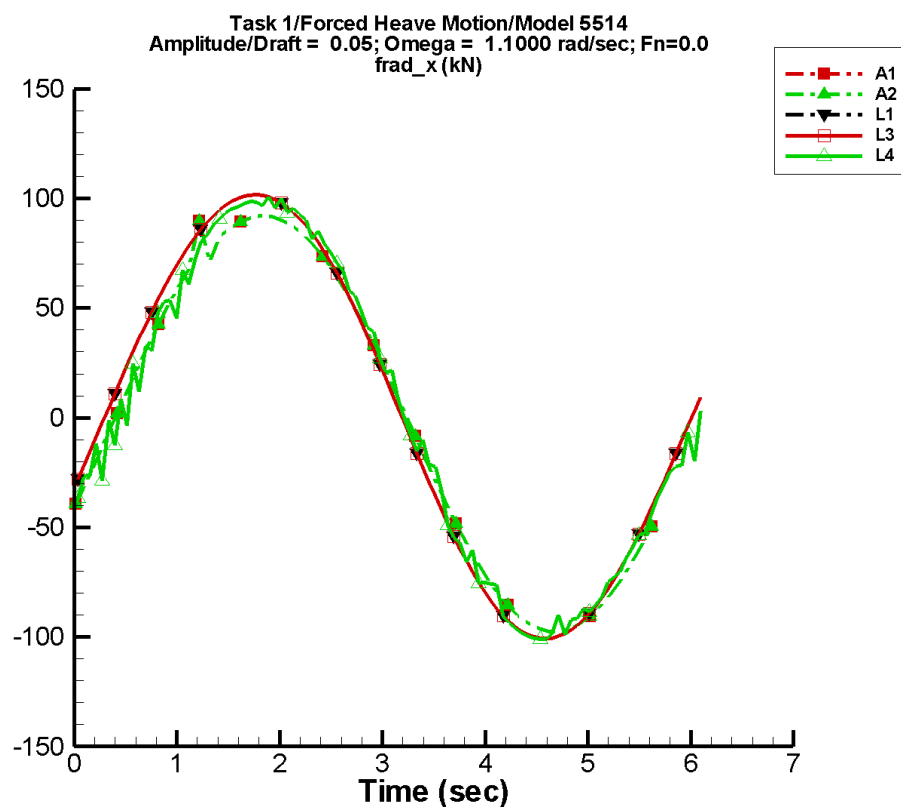
Table B–439. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.77	633.	-36	3.20	21
A2	-1.77	633.	-36	3.20	21
FD	—	—	—	—	—
L1	-111.	235.	87	142.	-155
L3	-111.	235.	87	142.	-155
L4	71.8	262.	105	268.	-153
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–440. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-631.	632.	-629.	629.
A2	-631.	632.	-629.	629.
FD	—	—	—	—
L1	-466.	177.	-465.	177.
L3	-466.	177.	-465.	177.
L4	-667.	814.	-596.	769.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-221. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

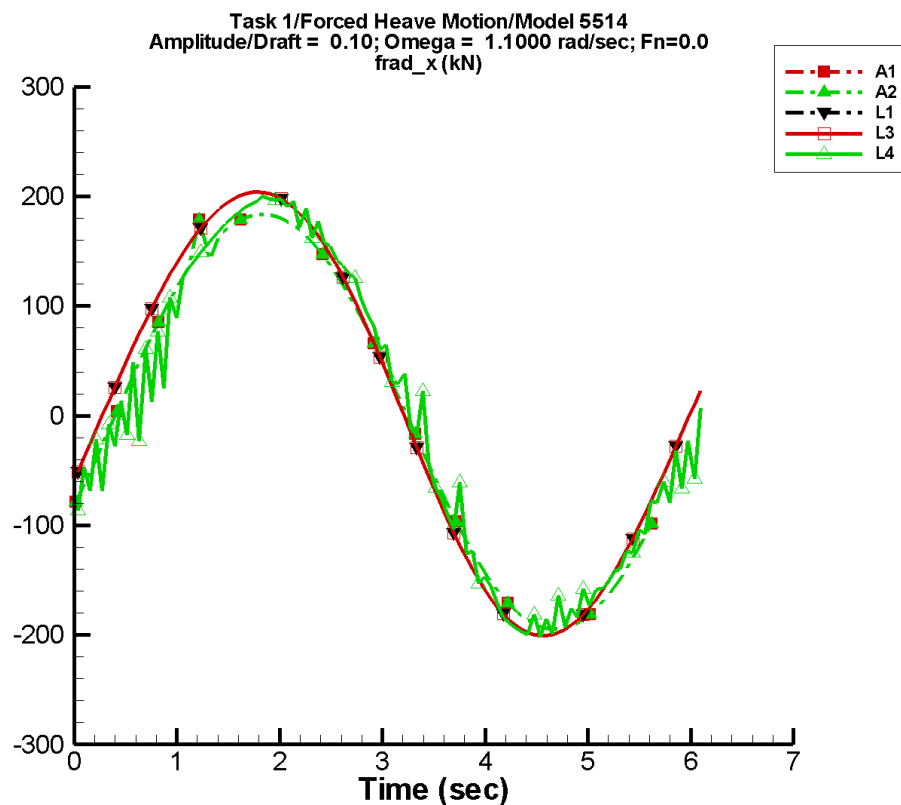
Table B–441. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.40	95.2	-24	1.56	30
A2	-1.40	95.2	-24	1.56	30
FD	—	—	—	—	—
L1	1.32	101.	-20	1.40	95
L3	1.32	101.	-20	1.40	95
L4	-5.52E-02	98.1	-24	3.76	149
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–442. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-97.5	92.0	-94.4	89.2
A2	-97.5	92.0	-94.4	89.2
FD	—	—	—	—
L1	-101.	102.	-99.6	101.
L3	-101.	102.	-99.6	101.
L4	-101.	101.	-98.6	97.9
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-222. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

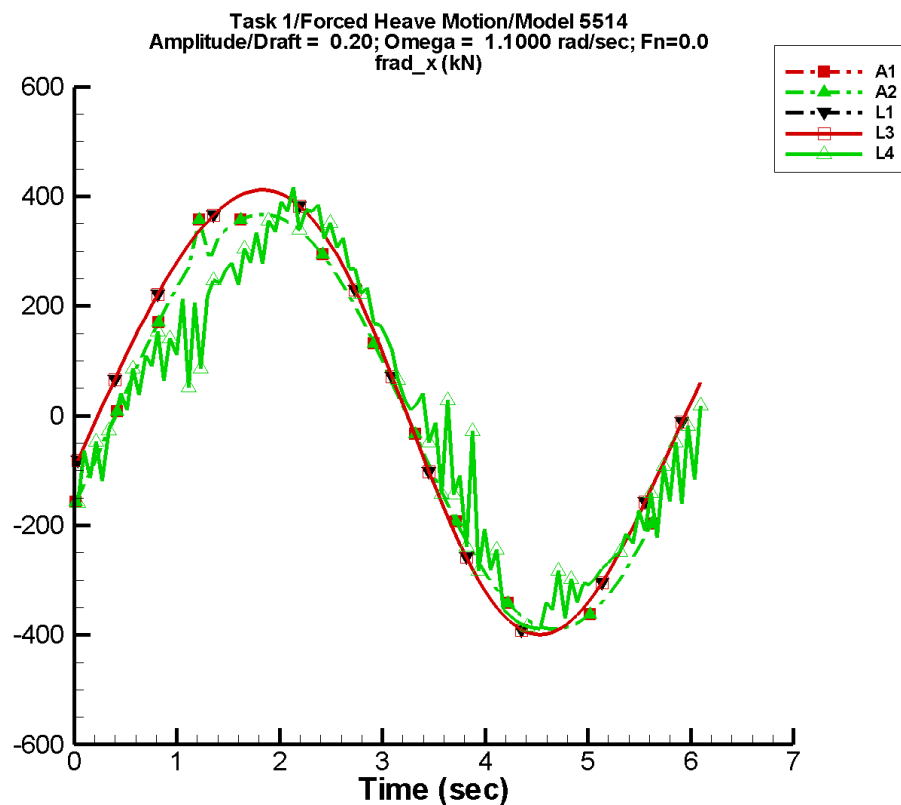
Table B–443. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.79	190.	-24	3.11	30
A2	-2.79	190.	-24	3.11	30
FD	—	—	—	—	—
L1	5.05	202.	-20	5.64	99
L3	5.05	202.	-20	5.64	99
L4	-0.913	192.	-27	12.7	151
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–444. Minimum and maximum of of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-195.	184.	-188.	178.
A2	-195.	184.	-188.	178.
FD	—	—	—	—
L1	-201.	204.	-198.	202.
L3	-201.	204.	-198.	202.
L4	-202.	200.	-192.	195.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-223. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

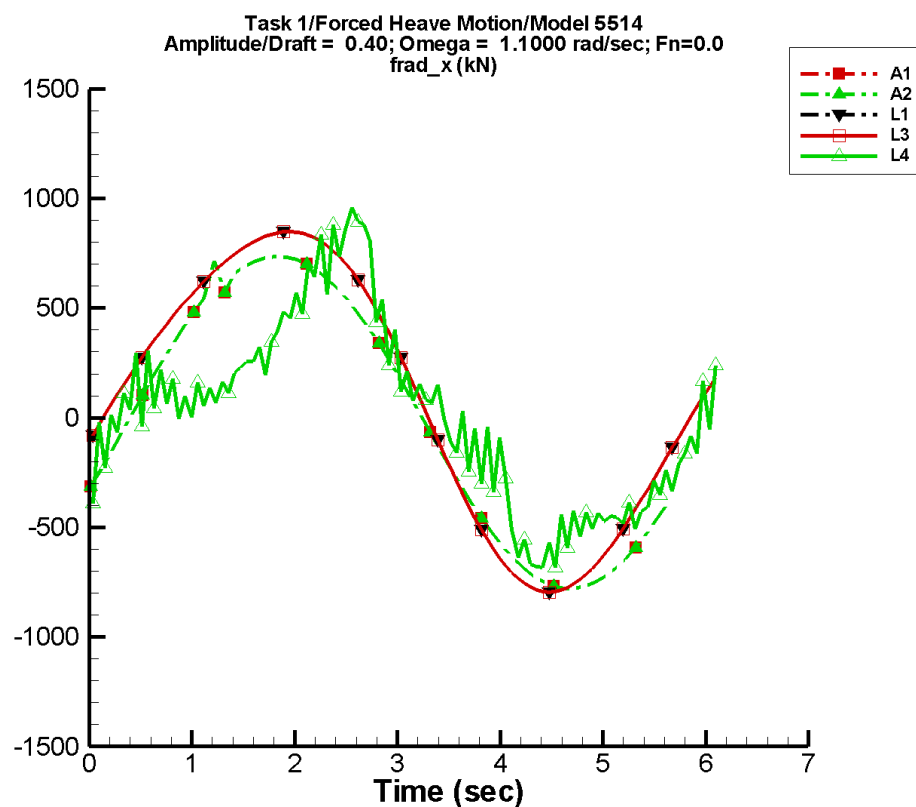
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.58	380.	-24	6.22	30
A2	-5.58	380.	-24	6.22	30
FD	—	—	—	—	—
L1	19.8	404.	-20	22.7	101
L3	19.8	404.	-20	22.7	101
L4	7.11	344.	-32	45.5	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–446. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-389.	367.	-377.	356.
A2	-389.	367.	-377.	356.
FD	—	—	—	—
L1	-400.	412.	-394.	408.
L3	-400.	412.	-394.	408.
L4	-388.	417.	-368.	376.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-224. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

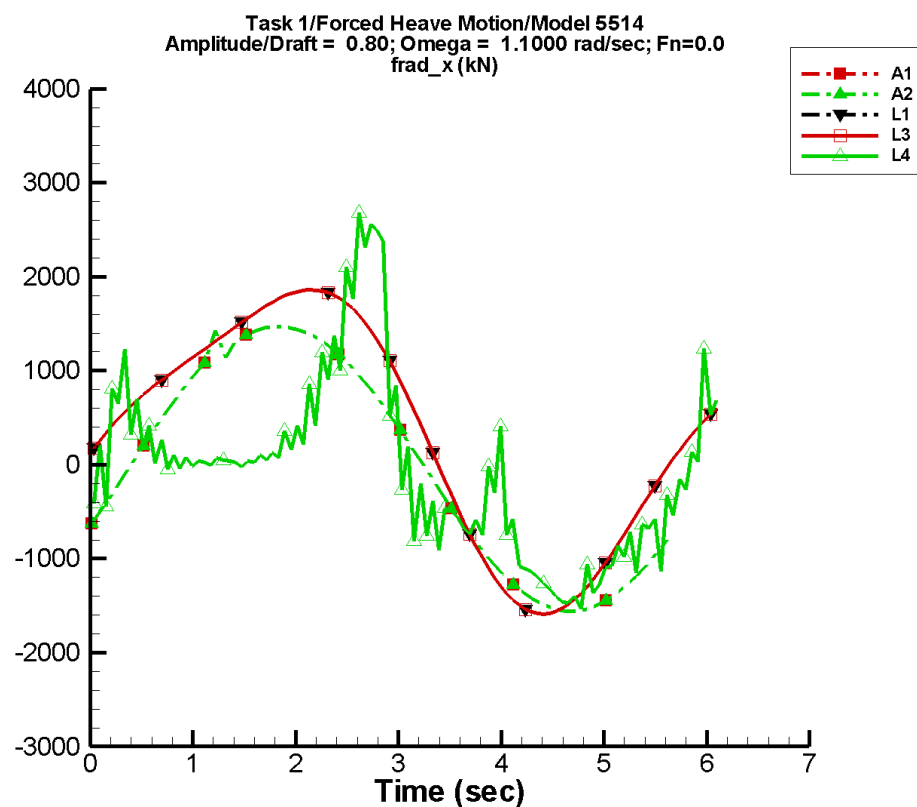
Table B–447. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-11.2	761.	-24	12.4	30
A2	-11.2	761.	-24	12.4	30
FD	—	—	—	—	—
L1	78.2	807.	-20	91.2	102
L3	78.2	807.	-20	91.2	102
L4	29.5	545.	-41	204.	98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–448. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-779.	735.	-754.	713.
A2	-779.	735.	-754.	713.
FD	—	—	—	—
L1	-795.	849.	-783.	841.
L3	-795.	849.	-783.	841.
L4	-681.	1.02E+03	-614.	822.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-225. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

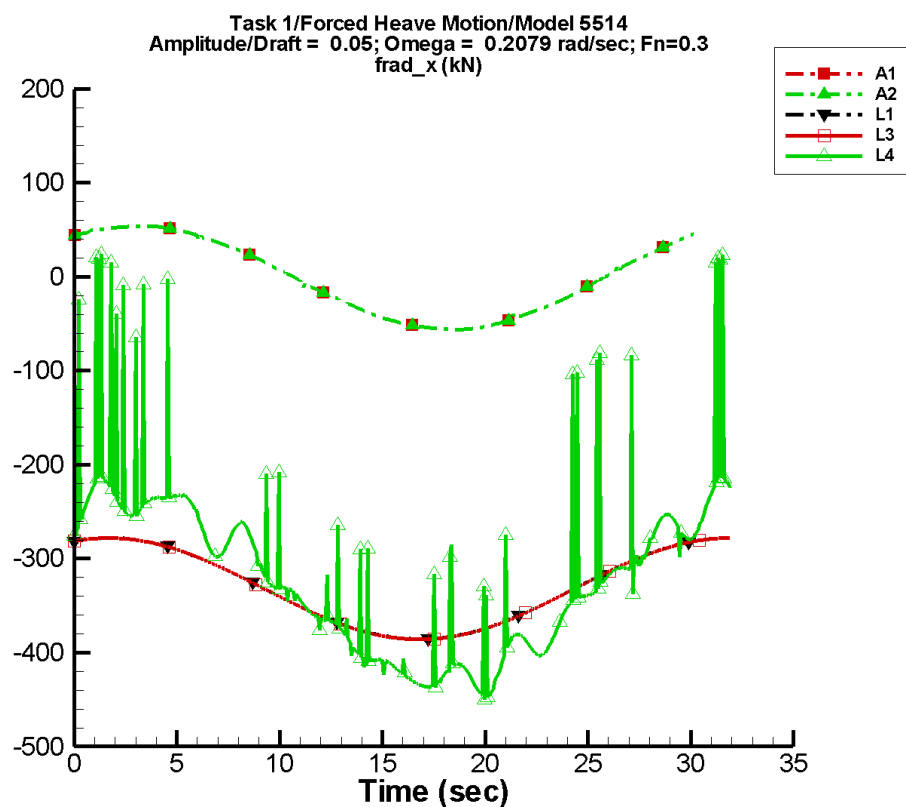
Table B–449. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-22.3	1.52E+03	-24	24.9	30
A2	-22.3	1.52E+03	-24	24.9	30
FD	—	—	—	—	—
L1	311.	1.61E+03	-20	366.	103
L3	311.	1.61E+03	-20	366.	103
L4	-25.2	982.	-41	721.	85
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–450. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.56E+03	1.47E+03	-1.51E+03	1.43E+03
A2	-1.56E+03	1.47E+03	-1.51E+03	1.43E+03
FD	—	—	—	—
L1	-1.59E+03	1.86E+03	-1.56E+03	1.84E+03
L3	-1.59E+03	1.86E+03	-1.56E+03	1.84E+03
L4	-1.53E+03	2.78E+03	-1.40E+03	2.12E+03
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B–226. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

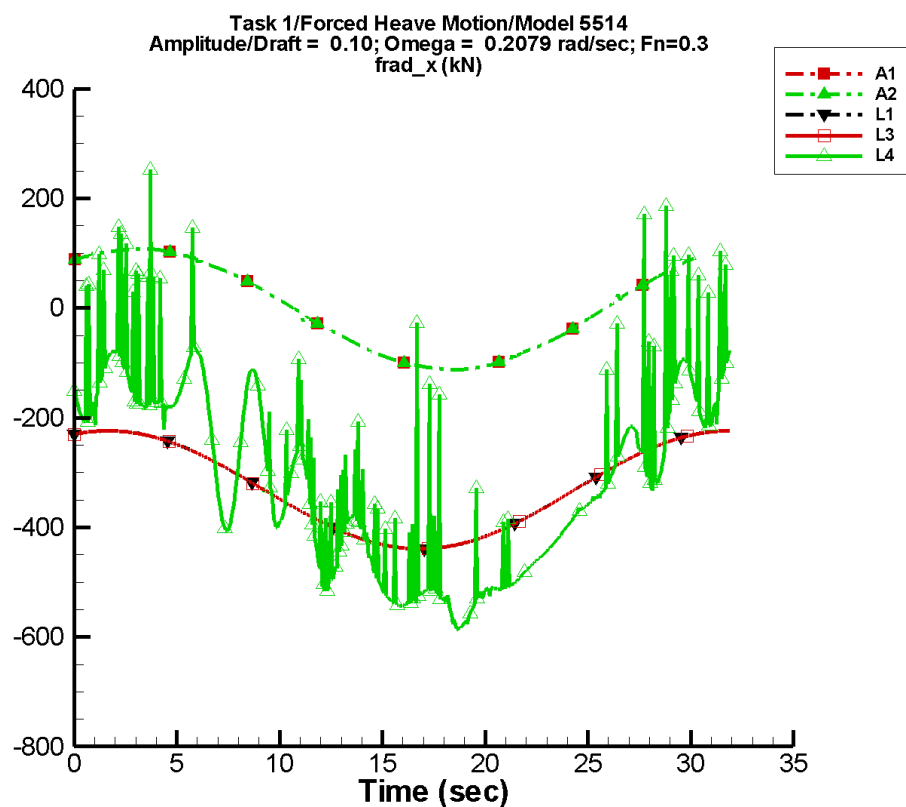
Table B–451. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.172	56.1	53	0.507	53
A2	-0.172	56.1	53	0.507	53
FD	—	—	—	—	—
L1	-332.	53.9	70	0.103	113
L3	-332.	53.9	70	0.102	113
L4	-323.	102.	59	5.24	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–452. Minimum and maximum of of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-56.1	58.5	-56.1	58.4
A2	-56.1	58.5	-56.1	58.4
FD	—	—	—	—
L1	-386.	-278.	-386.	-278.
L3	-386.	-278.	-386.	-278.
L4	-450.	24.1	-437.	-114.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-227. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

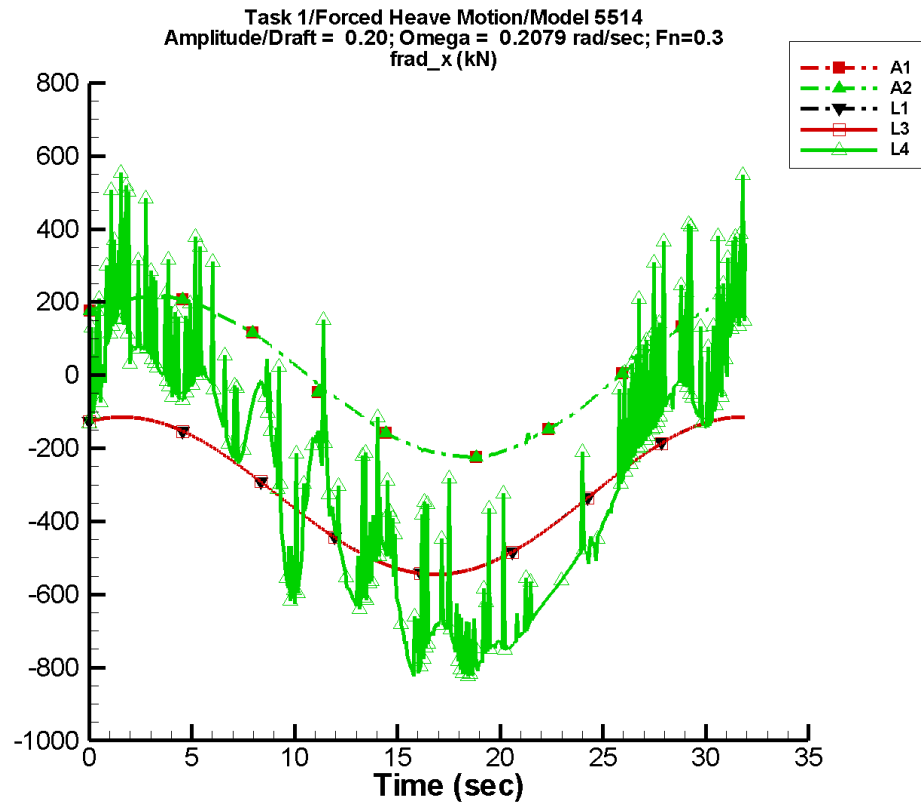
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.344	112.	53	1.01	53
A2	-0.344	112.	53	1.01	53
FD	—	—	—	—	—
L1	-332.	108.	70	0.407	113
L3	-332.	108.	70	0.406	113
L4	-315.	209.	55	25.0	97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–454. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-112.	117.	-112.	117.
A2	-112.	117.	-112.	117.
FD	—	—	—	—
L1	-439.	-224.	-439.	-224.
L3	-439.	-224.	-439.	-224.
L4	-586.	252.	-581.	18.6
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-228. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

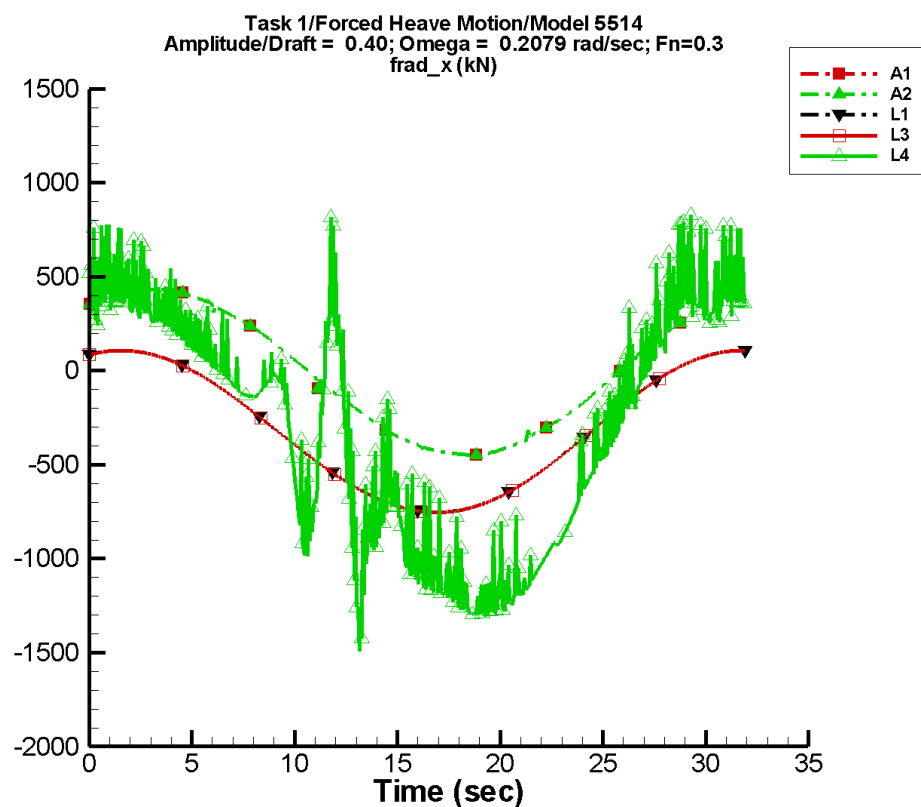
Table B–455. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.688	224.	53	2.03	53
A2	-0.688	224.	53	2.03	53
FD	—	—	—	—	—
L1	-330.	215.	70	1.63	113
L3	-331.	215.	70	1.63	113
L4	-305.	412.	57	66.0	109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–456. Minimum and maximum of of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-224.	233.	-224.	233.
A2	-224.	233.	-224.	233.
FD	—	—	—	—
L1	-545.	-114.	-545.	-115.
L3	-545.	-115.	-545.	-115.
L4	-823.	555.	-778.	289.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-229. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

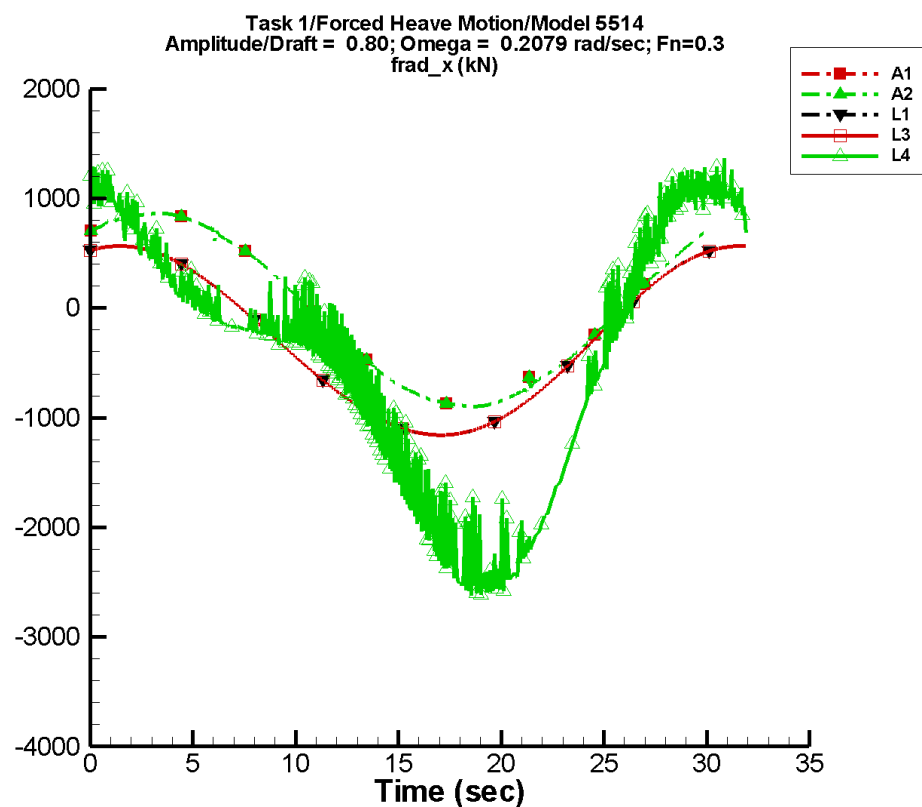
Table B–457. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.38	448.	53	4.05	53
A2	-1.38	448.	53	4.05	53
FD	—	—	—	—	—
L1	-326.	430.	70	6.51	113
L3	-326.	431.	70	6.51	113
L4	-322.	770.	56	222.	127
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–458. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-448.	467.	-448.	466.
A2	-448.	467.	-448.	466.
FD	—	—	—	—
L1	-754.	108.	-753.	107.
L3	-754.	108.	-754.	107.
L4	-1.49E+03	827.	-1.28E+03	558.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-230. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

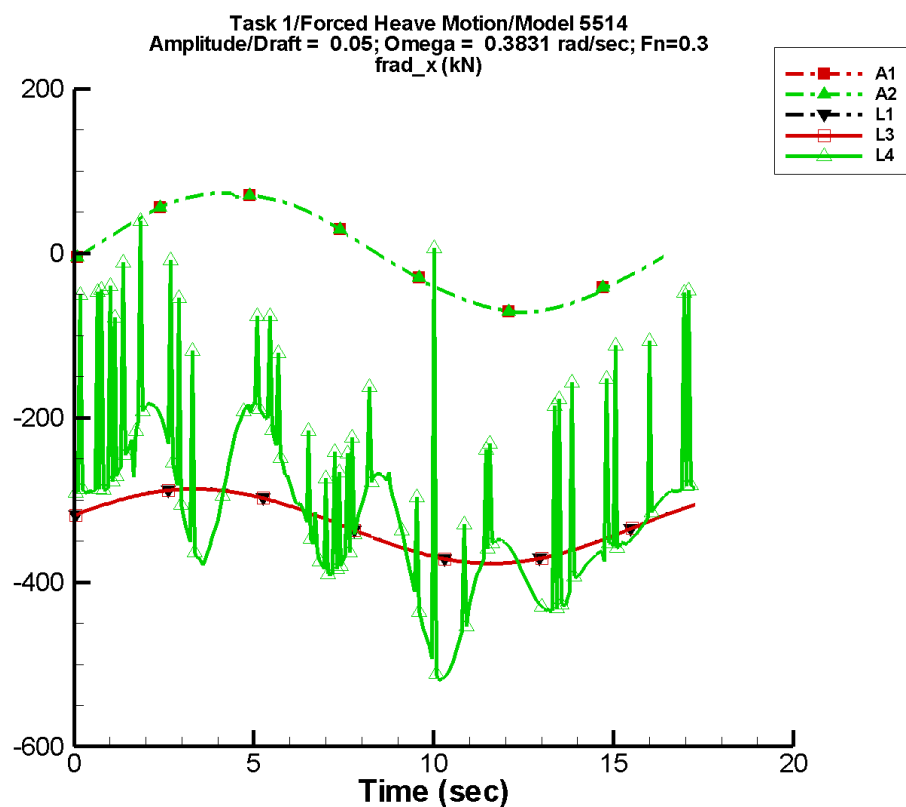
Table B–459. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.75	896.	53	8.10	53
A2	-2.75	896.	53	8.10	53
FD	—	—	—	—	—
L1	-308.	861.	70	26.1	113
L3	-308.	861.	70	26.1	113
L4	-509.	1.43E+03	58	656.	144
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–460. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-897.	934.	-896.	933.
A2	-897.	934.	-896.	933.
FD	—	—	—	—
L1	-1.16E+03	566.	-1.16E+03	566.
L3	-1.16E+03	566.	-1.16E+03	566.
L4	-2.62E+03	1.36E+03	-2.50E+03	1.21E+03
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-231. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

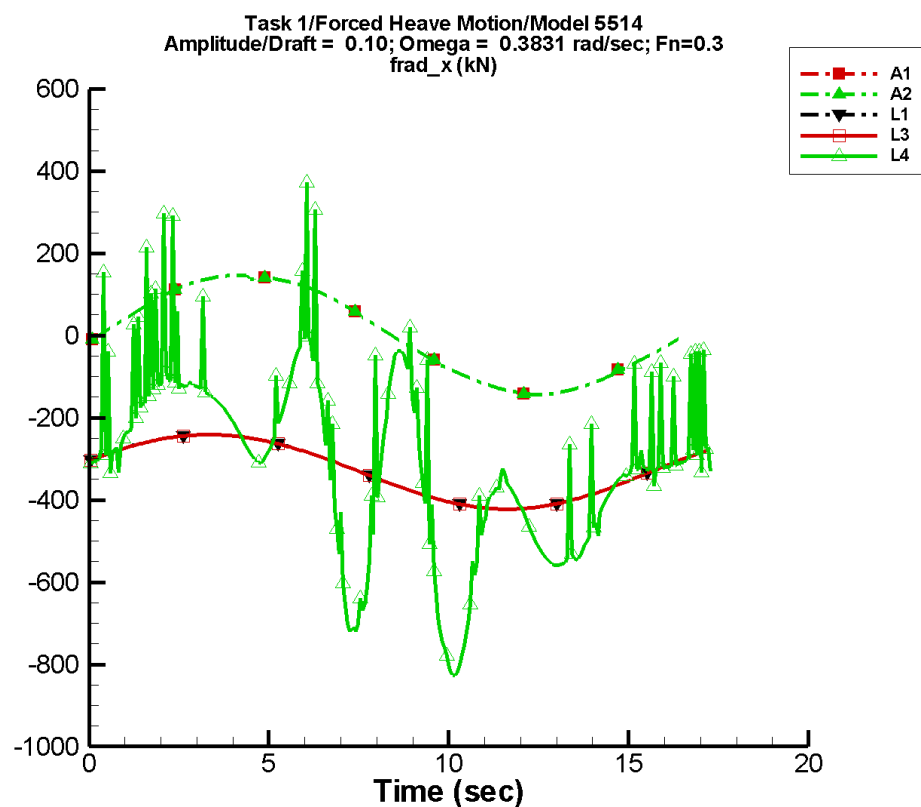
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	1.52	72.0	-4	0.422	163
A2	1.52	72.0	-4	0.422	163
FD	—	—	—	—	—
L1	-332.	45.3	16	0.326	78
L3	-332.	45.3	16	0.331	78
L4	-310.	92.2	21	14.6	71
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–462. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-71.8	73.5	-71.5	72.7
A2	-71.8	73.5	-71.5	72.7
FD	—	—	—	—
L1	-377.	-286.	-377.	-287.
L3	-377.	-287.	-377.	-287.
L4	-519.	39.3	-504.	-158.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-232. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

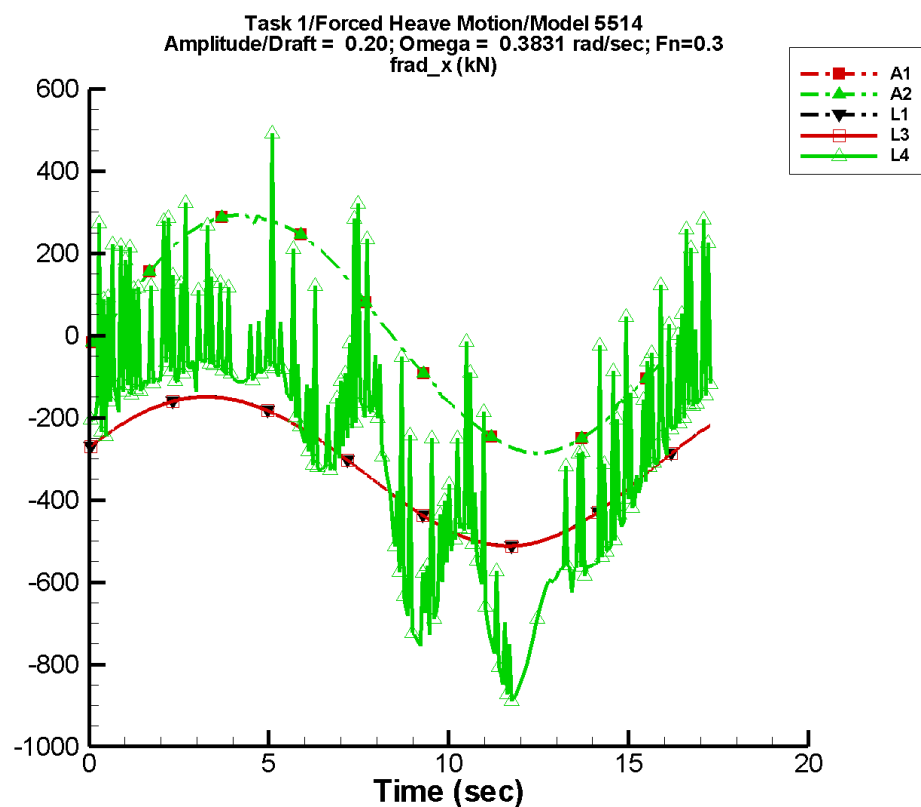
Table B–463. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	3.04	144.	-4	0.844	163
A2	3.04	144.	-4	0.844	163
FD	—	—	—	—	—
L1	-331.	90.5	16	1.31	78
L3	-331.	90.5	16	1.32	78
L4	-312.	202.	21	22.5	37
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–464. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-143.	147.	-143.	145.
A2	-143.	147.	-143.	145.
FD	—	—	—	—
L1	-422.	-241.	-422.	-241.
L3	-422.	-241.	-422.	-241.
L4	-827.	373.	-811.	71.8
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-233. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

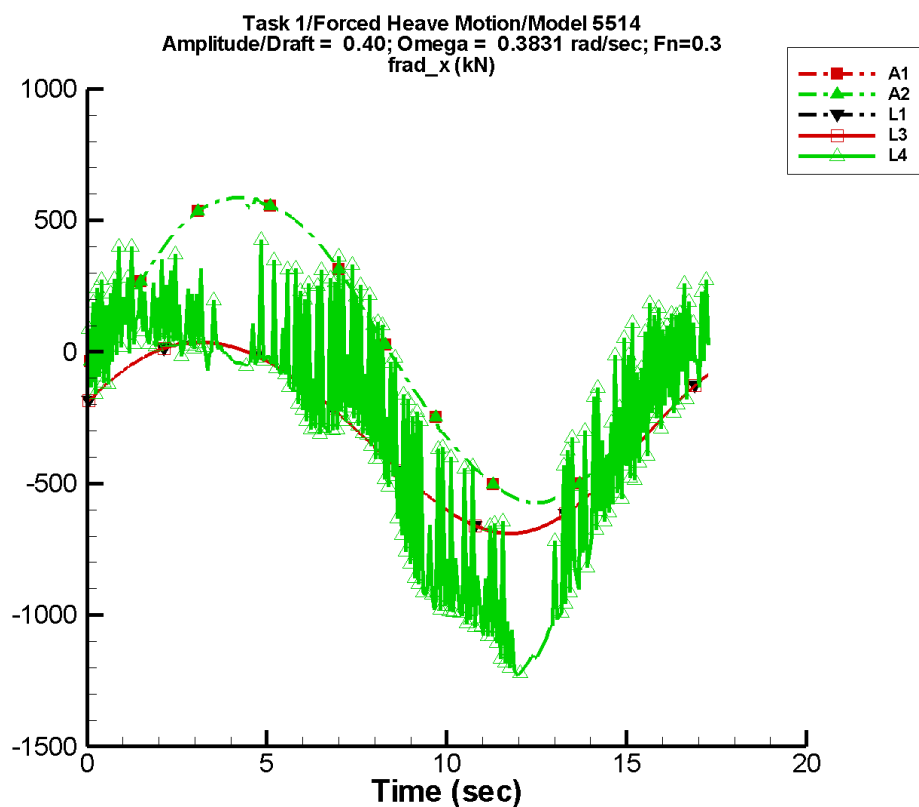
Table B–465. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	6.08	288.	-4	1.69	163
A2	6.08	288.	-4	1.69	163
FD	—	—	—	—	—
L1	-327.	181.	16	5.28	78
L3	-327.	181.	16	5.28	78
L4	-285.	328.	18	76.5	96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–466. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-287.	294.	-285.	290.
A2	-287.	294.	-285.	290.
FD	—	—	—	—
L1	-512.	-149.	-512.	-150.
L3	-512.	-150.	-512.	-150.
L4	-888.	491.	-849.	28.3
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-234. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

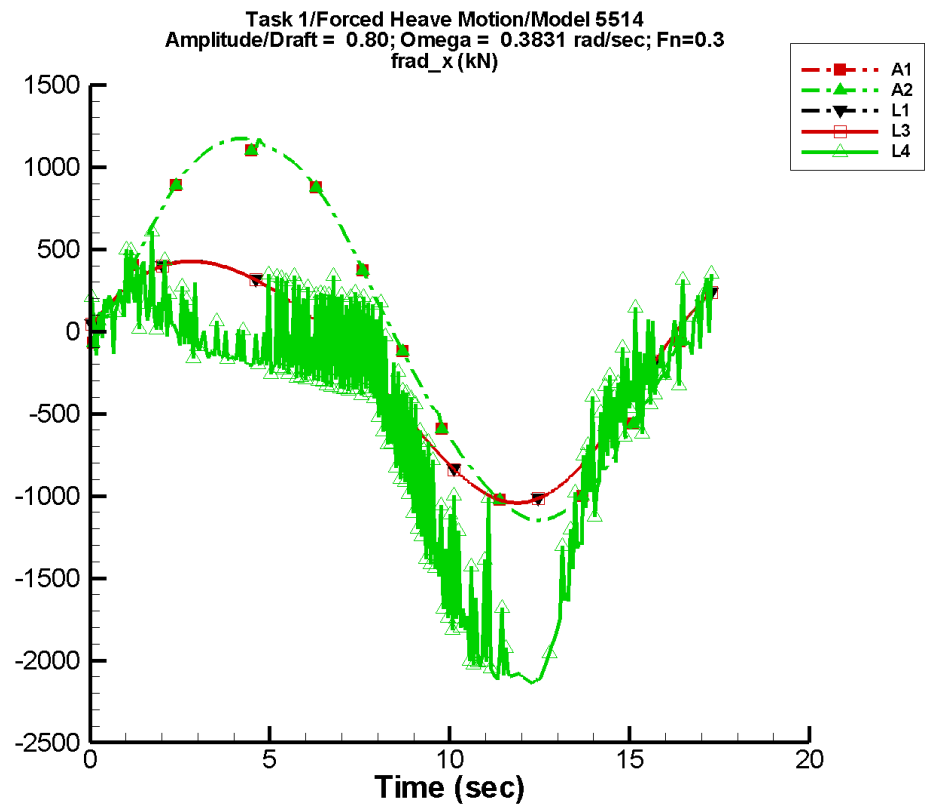
Table B–467. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	12.2	575.	-4	3.37	163
A2	12.2	575.	-4	3.37	163
FD	—	—	—	—	—
L1	-311.	362.	16	21.1	78
L3	-311.	362.	16	21.1	78
L4	-310.	554.	17	208.	106
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–468. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-574.	587.	-571.	581.
A2	-574.	587.	-571.	581.
FD	—	—	—	—
L1	-690.	37.1	-689.	36.4
L3	-690.	36.7	-689.	36.3
L4	-1.23E+03	447.	-1.20E+03	218.
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-235. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

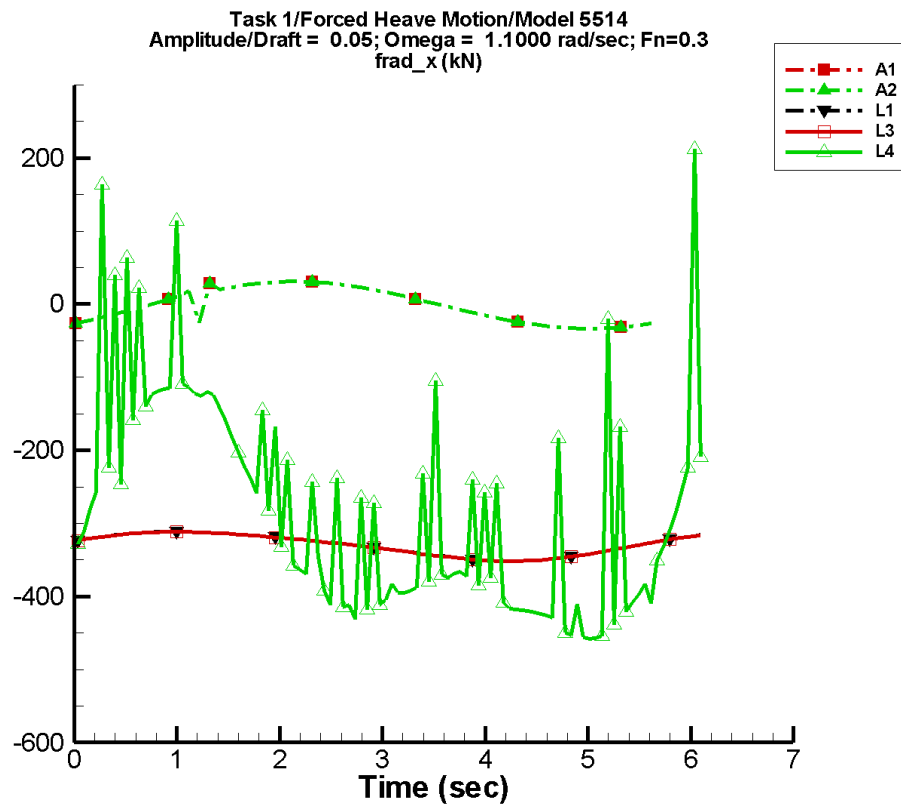
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	24.3	1.15E+03	-4	6.75	163
A2	24.3	1.15E+03	-4	6.75	163
FD	—	—	—	—	—
L1	-250.	724.	16	84.5	78
L3	-250.	724.	16	84.5	78
L4	-581.	936.	17	478.	112
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–470. Minimum and maximum of of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.15E+03	1.17E+03	-1.14E+03	1.16E+03
A2	-1.15E+03	1.17E+03	-1.14E+03	1.16E+03
FD	—	—	—	—
L1	-1.04E+03	427.	-1.04E+03	426.
L3	-1.04E+03	427.	-1.04E+03	426.
L4	-2.14E+03	607.	-2.12E+03	291.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-236. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

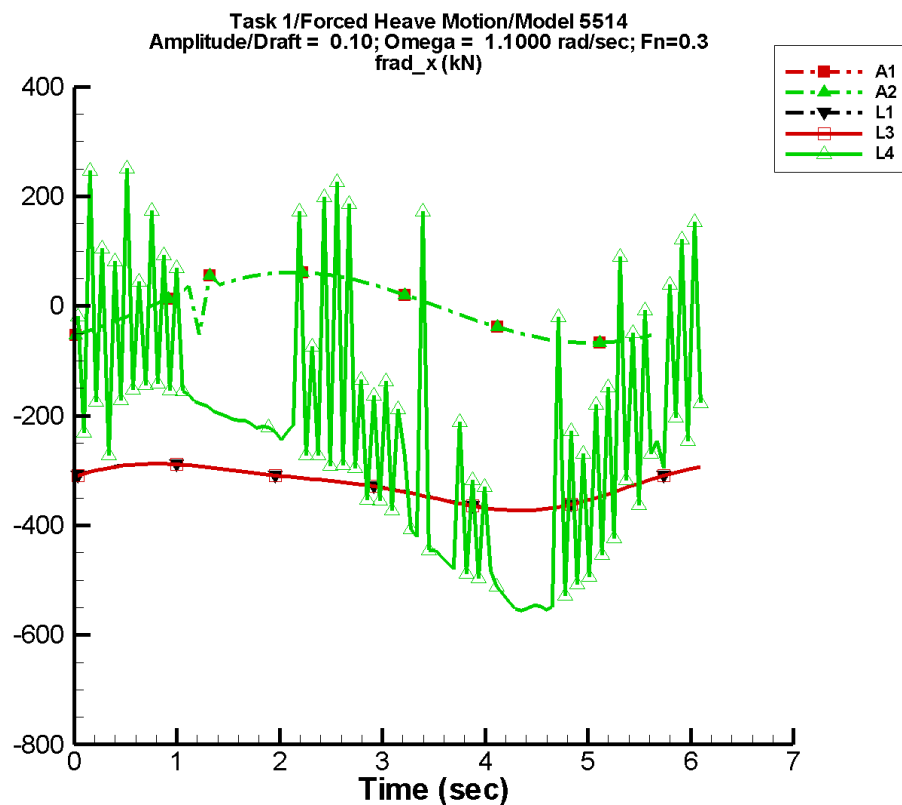
Table B–471. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-1.81	31.6	-46	0.644	84
A2	-1.81	31.6	-46	0.644	84
FD	—	—	—	—	—
L1	-330.	19.4	12	2.68	50
L3	-330.	19.4	12	2.66	50
L4	-283.	131.	21	83.6	-17
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–472. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-33.6	30.9	-32.6	30.1
A2	-33.6	30.9	-32.6	30.1
FD	—	—	—	—
L1	-351.	-311.	-351.	-311.
L3	-352.	-311.	-351.	-312.
L4	-458.	212.	-410.	-72.6
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-237. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

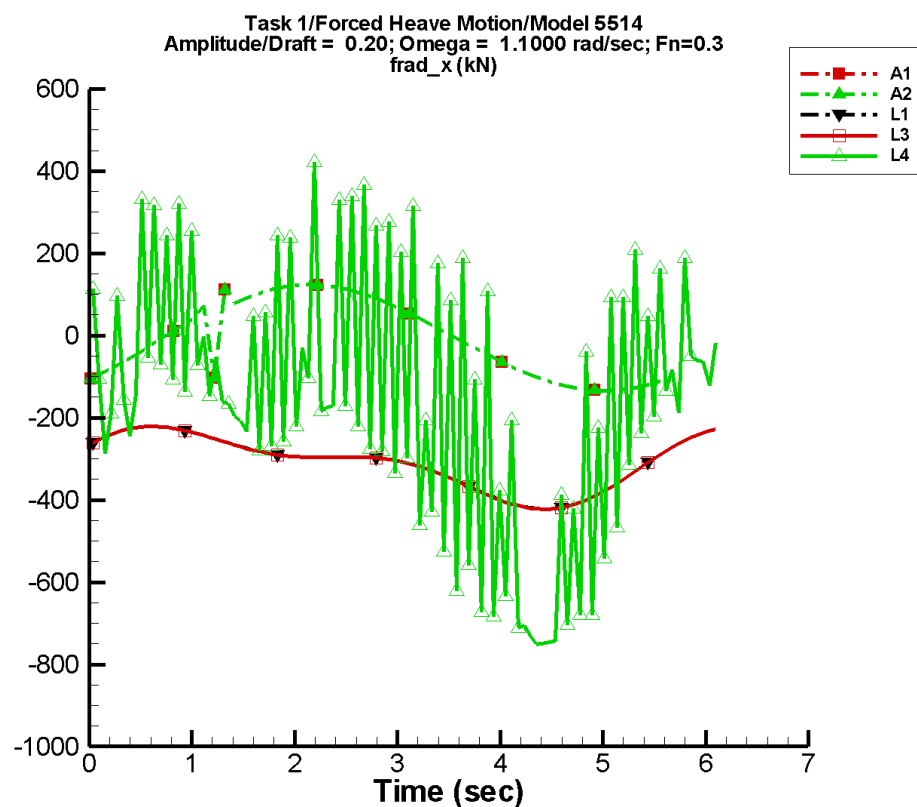
Table B–473. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s,  $\text{Fn} = 0.3$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-3.61	63.1	-46	1.29	84
A2	-3.61	63.1	-46	1.29	84
FD	—	—	—	—	—
L1	-327.	38.9	12	10.0	50
L3	-327.	38.9	12	10.0	50
L4	-230.	183.	13	113.	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–474. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-67.1	61.7	-65.2	60.0
A2	-67.1	61.7	-65.2	60.0
FD	—	—	—	—
L1	-373.	-287.	-372.	-288.
L3	-373.	-288.	-372.	-288.
L4	-556.	257.	-537.	-4.60
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-238. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

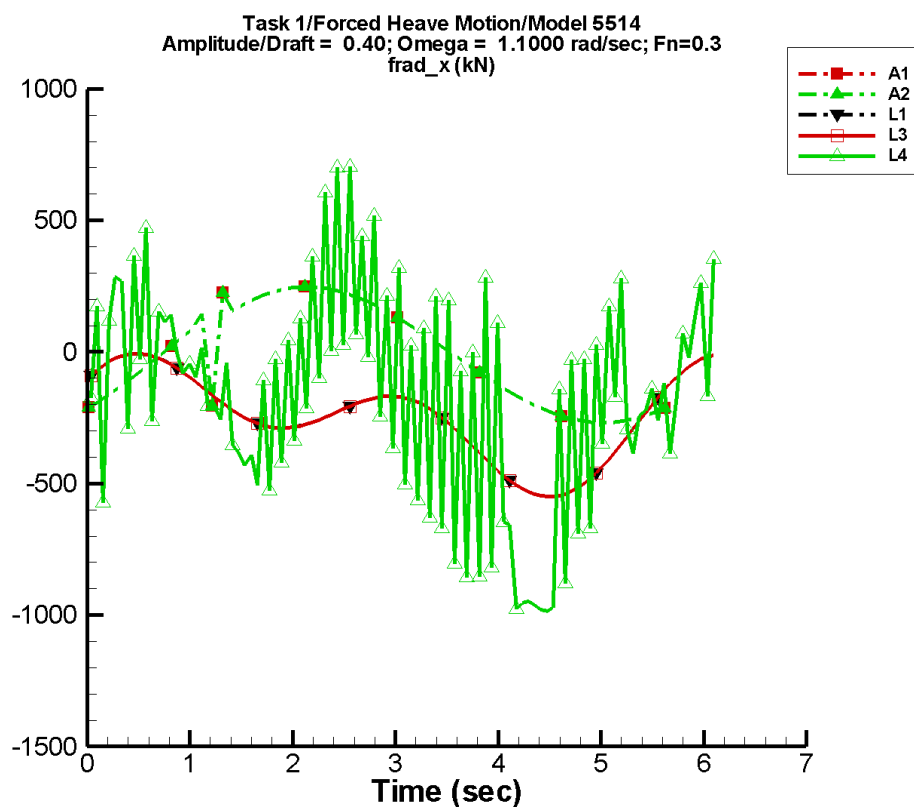
Table B–475. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-7.22	126.	-46	2.57	84
A2	-7.22	126.	-46	2.57	84
FD	—	—	—	—	—
L1	-313.	78.0	12	39.3	50
L3	-313.	78.0	12	39.3	50
L4	-173.	229.	-4	173.	81
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–476. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-134.	123.	-130.	120.
A2	-134.	123.	-130.	120.
FD	—	—	—	—
L1	-422.	-221.	-420.	-223.
L3	-422.	-221.	-420.	-223.
L4	-751.	464.	-680.	99.2
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-239. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

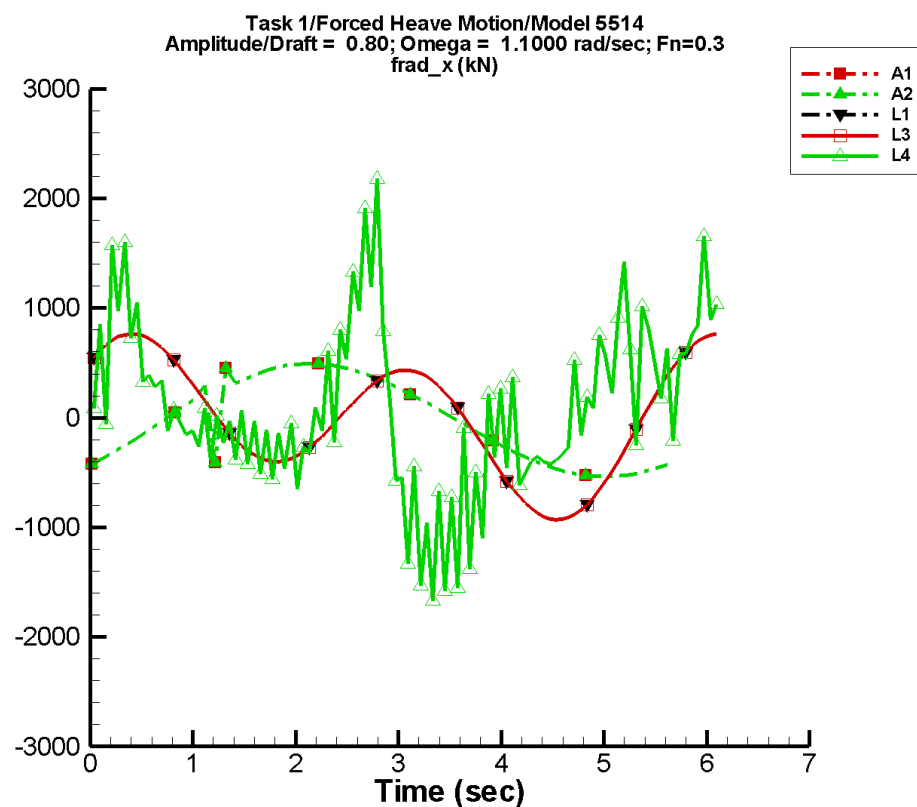
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-14.4	252.	-46	5.15	84
A2	-14.4	252.	-46	5.15	84
FD	—	—	—	—	—
L1	-258.	156.	12	156.	50
L3	-258.	156.	12	156.	50
L4	-186.	240.	-8	298.	88
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–478. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-268.	247.	-261.	240.
A2	-268.	247.	-261.	240.
FD	—	—	—	—
L1	-551.	-6.41	-542.	-13.9
L3	-551.	-6.60	-542.	-14.1
L4	-985.	890.	-870.	316.
NF	—	—	—	—
NS	—	—	—	—



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-240. Time history of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

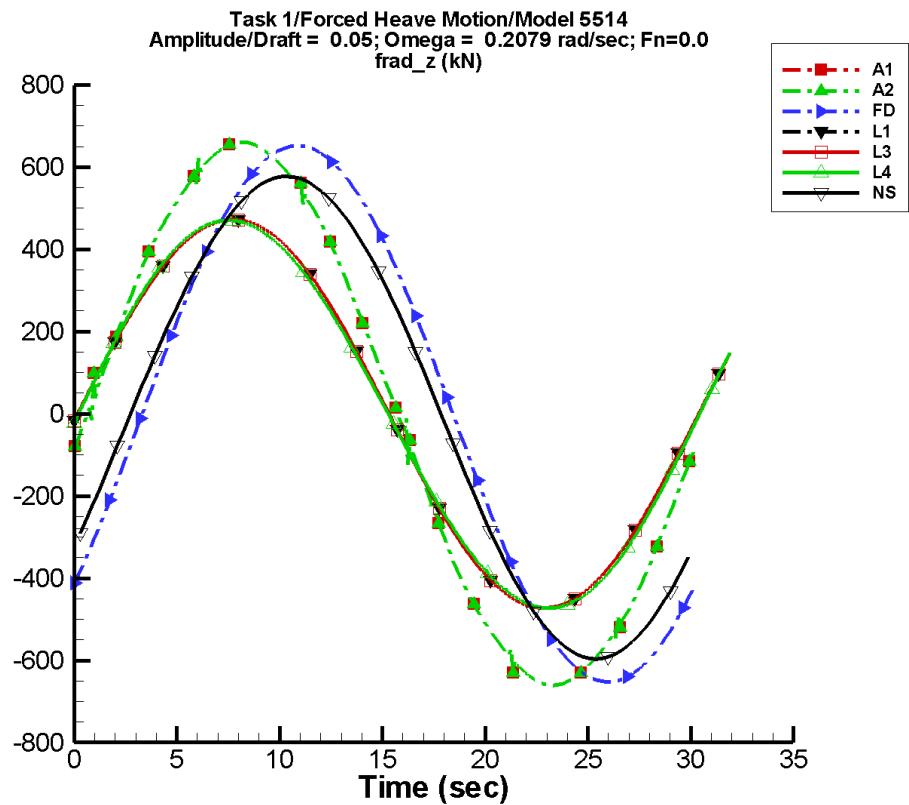
Table B–479. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_x^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-28.9	505.	-46	10.3	84
A2	-28.9	505.	-46	10.3	84
FD	—	—	—	—	—
L1	-37.7	312.	12	622.	50
L3	-37.8	312.	12	622.	50
L4	69.1	341.	64	604.	112
NF	—	—	—	—	—
NS	—	—	—	—	—

Table B–480. Minimum and maximum of  $F_x^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-537.	494.	-521.	480.
A2	-537.	494.	-521.	480.
FD	—	—	—	—
L1	-930.	765.	-899.	733.
L3	-930.	765.	-899.	733.
L4	-1.67E+03	2.18E+03	-1.18E+03	1.12E+03
NF	—	—	—	—
NS	—	—	—	—

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-241. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

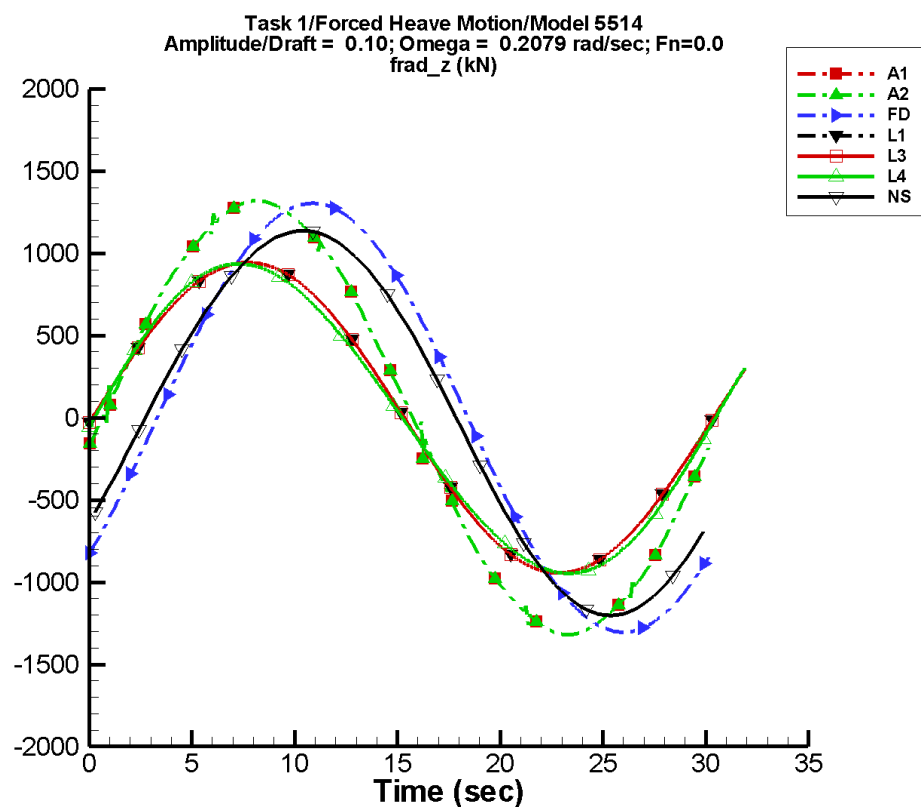
Table B–481. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-2.99E-02	657.	-7	8.78E-02	-167
A2	-2.99E-02	657.	-7	8.78E-02	-167
FD	2.03E-05	652.	-40	8.39E-05	-167
L1	0.746	472.	-2	0.987	90
L3	0.746	472.	-2	0.987	90
L4	-2.09	471.	-2	11.5	-9
NF	—	—	—	—	—
NS	-0.746	586.	-33	4.68	58

Table B–482. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-661.	661.	-660.	660.
A2	-661.	661.	-660.	660.
FD	-652.	652.	-651.	651.
L1	-473.	472.	-472.	472.
L3	-473.	472.	-472.	472.
L4	-473.	470.	-473.	470.
NF	—	—	—	—
NS	-597.	586.	-591.	581.

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-242. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

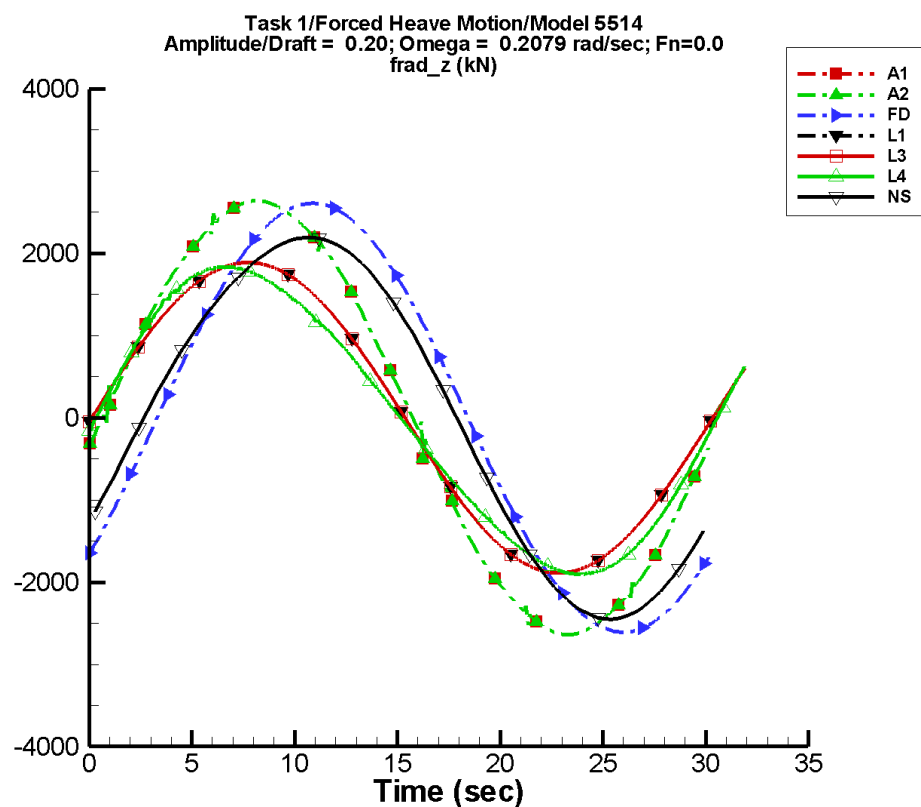
Table B–483. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.97E-02	1.31E+03	-7	0.175	-167
A2	-5.97E-02	1.31E+03	-7	0.175	-167
FD	6.35E-05	1.30E+03	-40	1.63E-04	-160
L1	2.99	943.	-2	3.46	88
L3	2.99	943.	-2	3.46	88
L4	-8.98	938.	-2	47.2	-9
NF	—	—	—	—	—
NS	-6.69	1.17E+03	-33	19.6	57

Table B–484. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03
A2	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03
FD	-1.30E+03	1.30E+03	-1.30E+03	1.30E+03
L1	-944.	943.	-943.	943.
L3	-944.	943.	-943.	943.
L4	-946.	936.	-946.	935.
NF	—	—	—	—
NS	-1.20E+03	1.15E+03	-1.19E+03	1.14E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-243. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

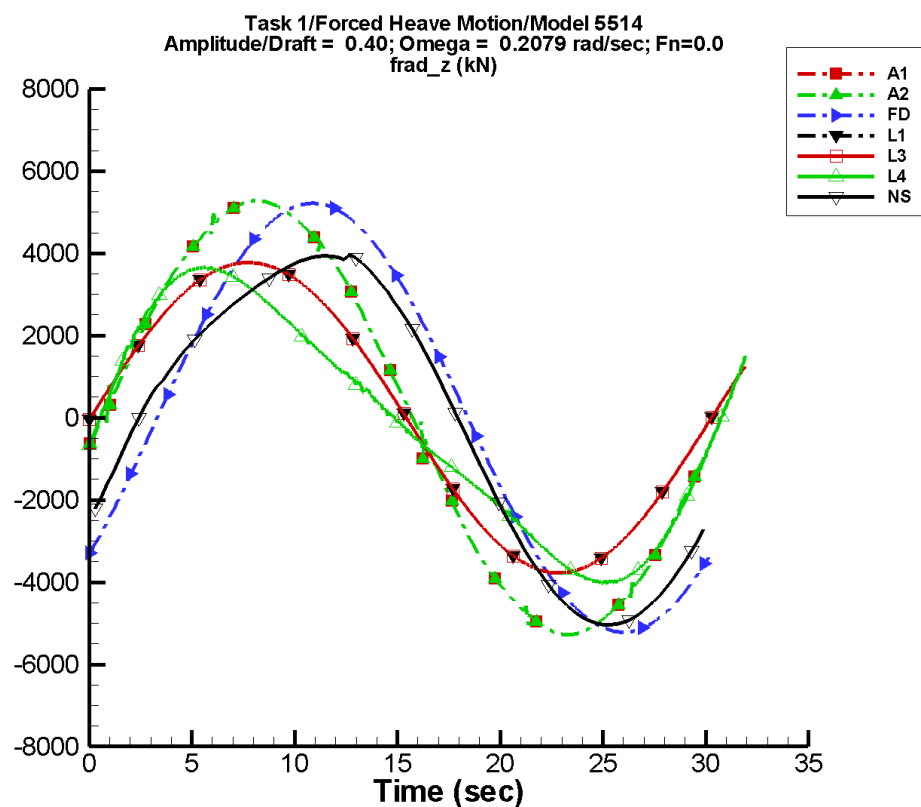
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.119	2.62E+03	-7	0.351	-167
A2	-0.119	2.62E+03	-7	0.351	-167
FD	6.90E-05	2.61E+03	-40	2.43E-04	-155
L1	12.0	1.89E+03	-2	12.9	87
L3	12.0	1.89E+03	-2	12.9	87
L4	-42.5	1.84E+03	-3	207.	-7
NF	—	—	—	—	—
NS	-37.6	2.32E+03	-33	90.0	57

Table B–486. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.64E+03	2.64E+03	-2.63E+03	2.64E+03
A2	-2.64E+03	2.64E+03	-2.63E+03	2.64E+03
FD	-2.61E+03	2.61E+03	-2.61E+03	2.61E+03
L1	-1.89E+03	1.89E+03	-1.89E+03	1.89E+03
L3	-1.89E+03	1.89E+03	-1.89E+03	1.89E+03
L4	-1.91E+03	1.84E+03	-1.90E+03	1.83E+03
NF	—	—	—	—
NS	-2.45E+03	2.23E+03	-2.42E+03	2.21E+03



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-244. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

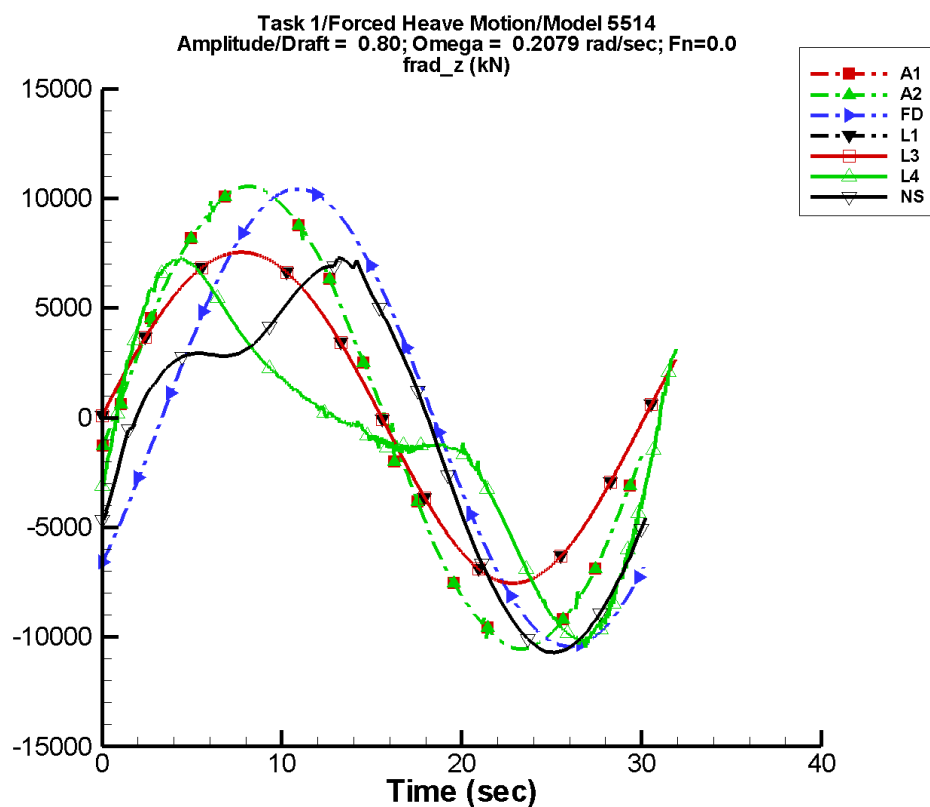
Table B–487. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.239	5.25E+03	-7	0.702	-167
A2	-0.239	5.25E+03	-7	0.702	-167
FD	7.50E-05	5.22E+03	-40	6.35E-04	-165
L1	47.9	3.77E+03	-2	49.8	86
L3	47.9	3.77E+03	-2	49.8	86
L4	-202.	3.48E+03	-3	945.	-7
NF	—	—	—	—	—
NS	-204.	4.47E+03	-34	452.	57

Table B–488. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.28E+03	5.28E+03	-5.27E+03	5.27E+03
A2	-5.28E+03	5.28E+03	-5.27E+03	5.27E+03
FD	-5.22E+03	5.22E+03	-5.21E+03	5.21E+03
L1	-3.77E+03	3.77E+03	-3.77E+03	3.77E+03
L3	-3.77E+03	3.77E+03	-3.77E+03	3.77E+03
L4	-4.02E+03	3.66E+03	-4.00E+03	3.65E+03
NF	—	—	—	—
NS	-5.04E+03	4.06E+03	-4.99E+03	4.00E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-245. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

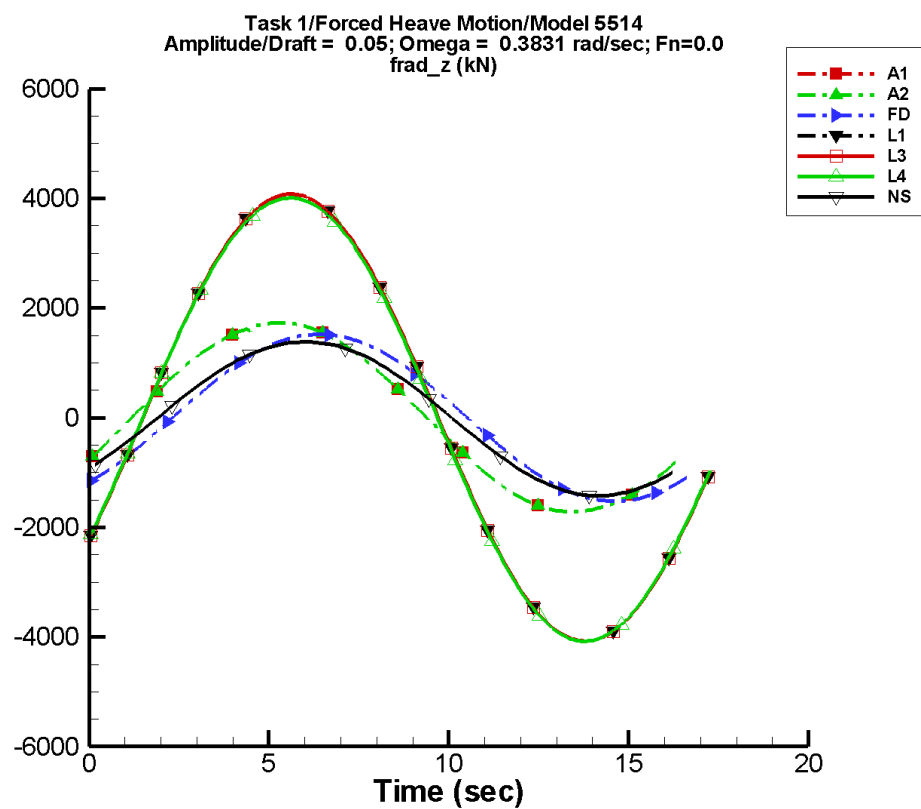
Table B–489. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-0.477	1.05E+04	-7	1.40	-167
A2	-0.477	1.05E+04	-7	1.40	-167
FD	3.64E-04	1.04E+04	-40	1.25E-03	-148
L1	192.	7.55E+03	-2	196.	86
L3	192.	7.55E+03	-2	196.	86
L4	-989.	5.82E+03	-9	3.80E+03	-6
NF	—	—	—	—	—
NS	-974.	8.13E+03	-35	2.17E+03	58

Table B–490. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.06E+04	1.06E+04	-1.05E+04	1.05E+04
A2	-1.06E+04	1.06E+04	-1.05E+04	1.05E+04
FD	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04
L1	-7.55E+03	7.55E+03	-7.55E+03	7.54E+03
L3	-7.55E+03	7.55E+03	-7.55E+03	7.54E+03
L4	-1.05E+04	7.27E+03	-1.02E+04	7.21E+03
NF	—	—	—	—
NS	-1.07E+04	7.45E+03	-1.06E+04	7.24E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-246. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

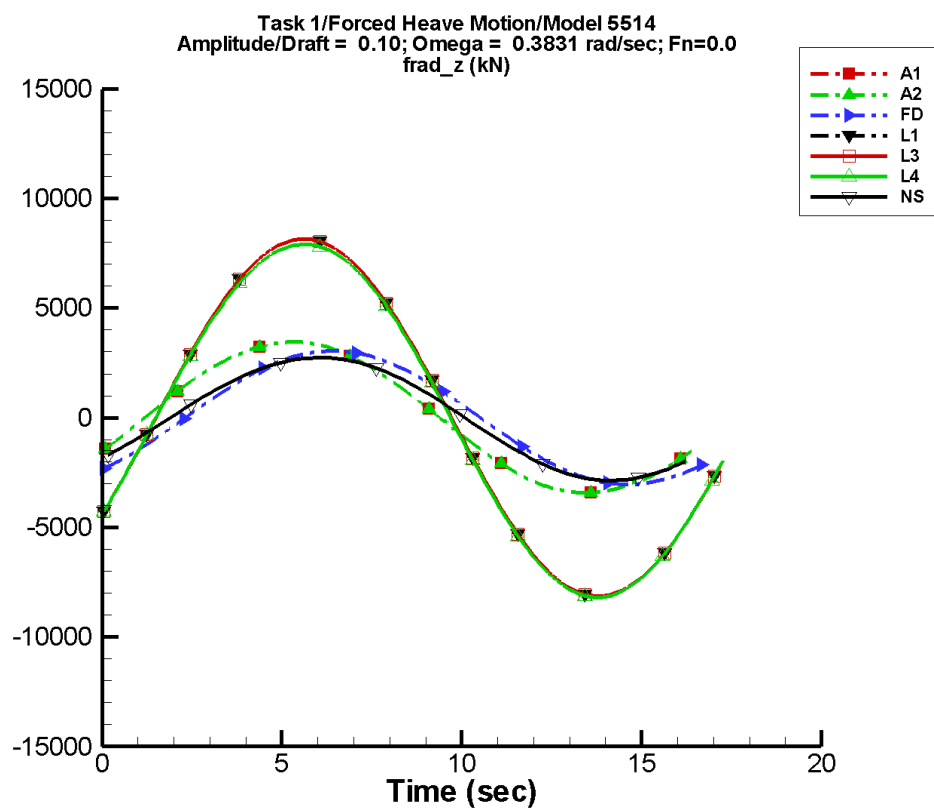
Table B–491. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	3.20	1.72E+03	-26	0.971	106
A2	3.20	1.72E+03	-26	0.971	106
FD	-1.75E-04	1.52E+03	-51	2.12E-04	-88
L1	5.29	4.08E+03	-33	3.95	85
L3	5.29	4.08E+03	-33	3.95	85
L4	-19.5	4.05E+03	-33	16.8	52
NF	—	—	—	—	—
NS	-7.48	1.40E+03	-42	10.3	59

Table B–492. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.72E+03	1.73E+03	-1.71E+03	1.72E+03
A2	-1.72E+03	1.73E+03	-1.71E+03	1.72E+03
FD	-1.52E+03	1.52E+03	-1.52E+03	1.52E+03
L1	-4.07E+03	4.08E+03	-4.07E+03	4.08E+03
L3	-4.07E+03	4.08E+03	-4.07E+03	4.08E+03
L4	-4.08E+03	4.01E+03	-4.07E+03	4.00E+03
NF	—	—	—	—
NS	-1.42E+03	1.39E+03	-1.41E+03	1.37E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-247. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

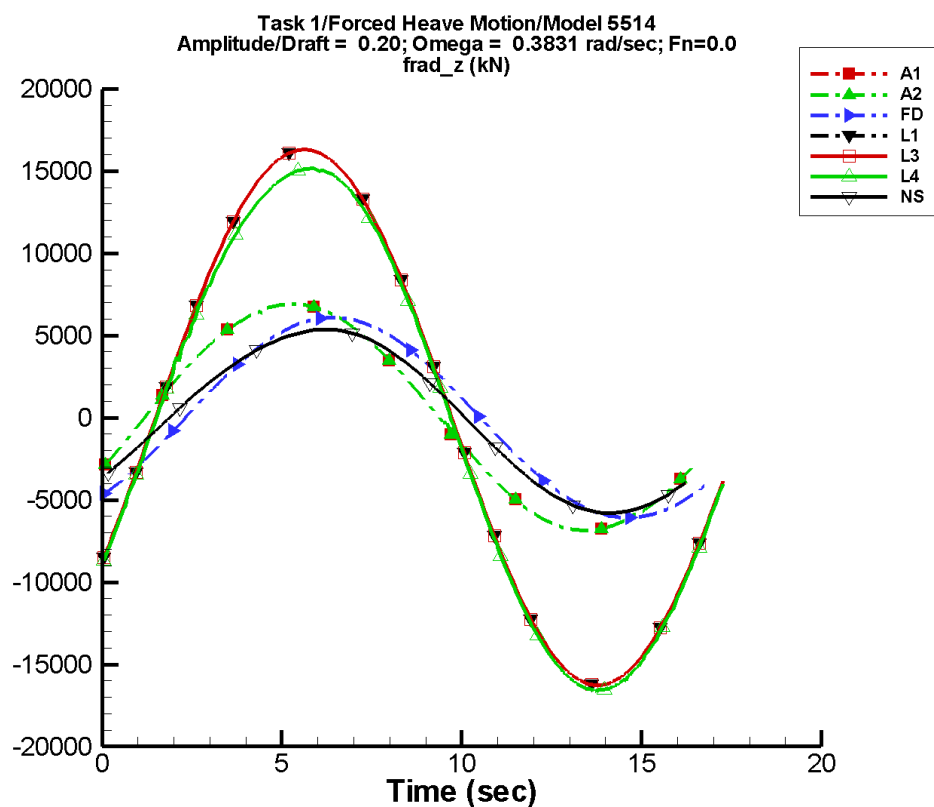
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	6.38	3.44E+03	-26	1.94	106
A2	6.38	3.44E+03	-26	1.94	106
FD	-2.28E-04	3.04E+03	-51	4.53E-04	-95
L1	18.3	8.14E+03	-33	19.0	82
L3	18.3	8.14E+03	-33	19.0	82
L4	-83.2	8.06E+03	-33	73.5	54
NF	—	—	—	—	—
NS	-23.4	2.79E+03	-42	41.9	56

Table B–494. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.43E+03	3.46E+03	-3.41E+03	3.44E+03
A2	-3.43E+03	3.46E+03	-3.41E+03	3.44E+03
FD	-3.04E+03	3.04E+03	-3.04E+03	3.03E+03
L1	-8.13E+03	8.15E+03	-8.12E+03	8.14E+03
L3	-8.13E+03	8.15E+03	-8.12E+03	8.14E+03
L4	-8.21E+03	7.91E+03	-8.19E+03	7.90E+03
NF	—	—	—	—
NS	-2.86E+03	2.75E+03	-2.83E+03	2.72E+03



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-248. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

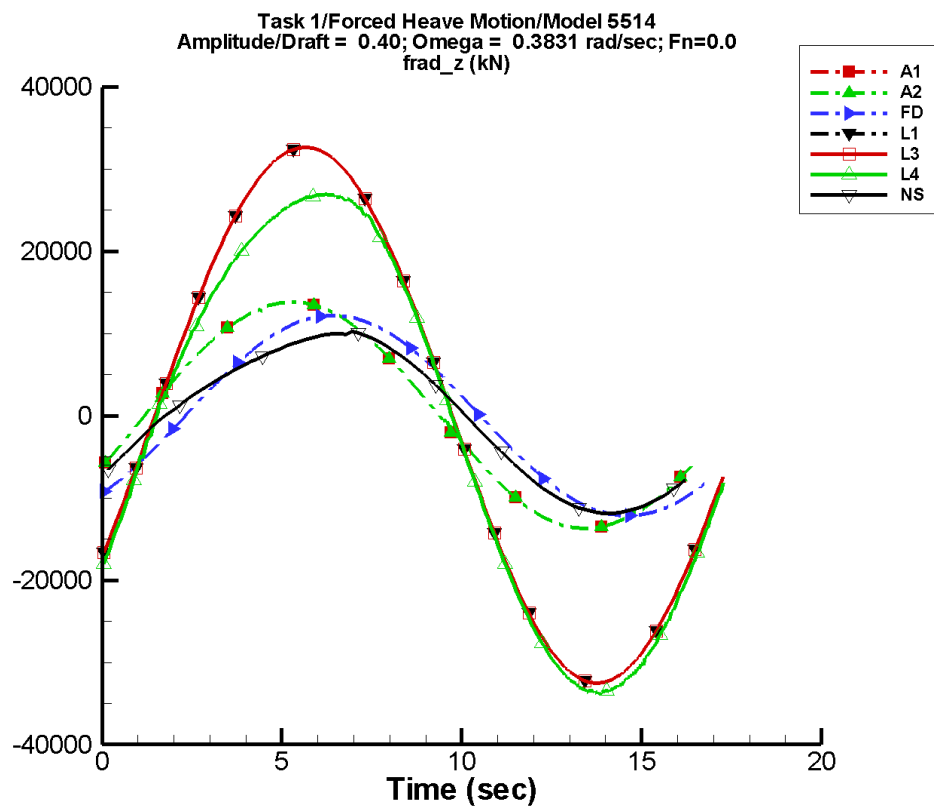
Table B–495. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	12.8	6.88E+03	-26	3.88	106
A2	12.8	6.88E+03	-26	3.88	106
FD	-5.54E-04	6.09E+03	-51	9.11E-04	-99
L1	67.6	1.63E+04	-33	82.6	80
L3	67.6	1.63E+04	-33	82.6	80
L4	-390.	1.59E+04	-33	403.	54
NF	—	—	—	—	—
NS	-87.7	5.55E+03	-42	190.	55

Table B–496. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.85E+03	6.91E+03	-6.83E+03	6.89E+03
A2	-6.85E+03	6.91E+03	-6.83E+03	6.89E+03
FD	-6.09E+03	6.09E+03	-6.08E+03	6.07E+03
L1	-1.63E+04	1.63E+04	-1.62E+04	1.63E+04
L3	-1.63E+04	1.63E+04	-1.62E+04	1.63E+04
L4	-1.66E+04	1.52E+04	-1.66E+04	1.51E+04
NF	—	—	—	—
NS	-5.81E+03	5.38E+03	-5.74E+03	5.32E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-249. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

TASK 1/HEAVE MOTION/MODEL 5514

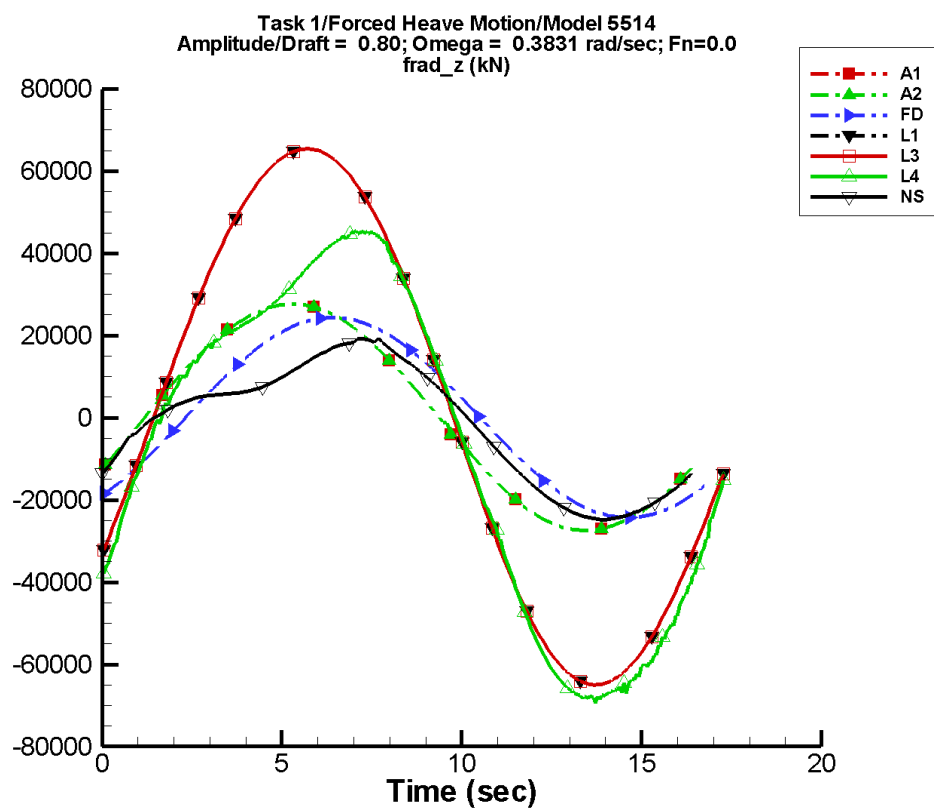
Table B–497. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	25.5	1.38E+04	-26	7.76	106
A2	25.5	1.38E+04	-26	7.76	106
FD	-1.24E-03	1.22E+04	-51	1.93E-03	-100
L1	259.	3.26E+04	-33	344.	80
L3	259.	3.26E+04	-33	344.	80
L4	-1.78E+03	3.06E+04	-35	2.05E+03	51
NF	—	—	—	—	—
NS	-416.	1.07E+04	-42	961.	54

Table B–498. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.37E+04	1.38E+04	-1.37E+04	1.38E+04
A2	-1.37E+04	1.38E+04	-1.37E+04	1.38E+04
FD	-1.22E+04	1.22E+04	-1.22E+04	1.21E+04
L1	-3.25E+04	3.26E+04	-3.25E+04	3.26E+04
L3	-3.25E+04	3.26E+04	-3.25E+04	3.26E+04
L4	-3.39E+04	2.69E+04	-3.36E+04	2.69E+04
NF	—	—	—	—
NS	-1.19E+04	1.03E+04	-1.17E+04	9.97E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-250. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

# TASK 1/HEAVE MOTION/MODEL 5514

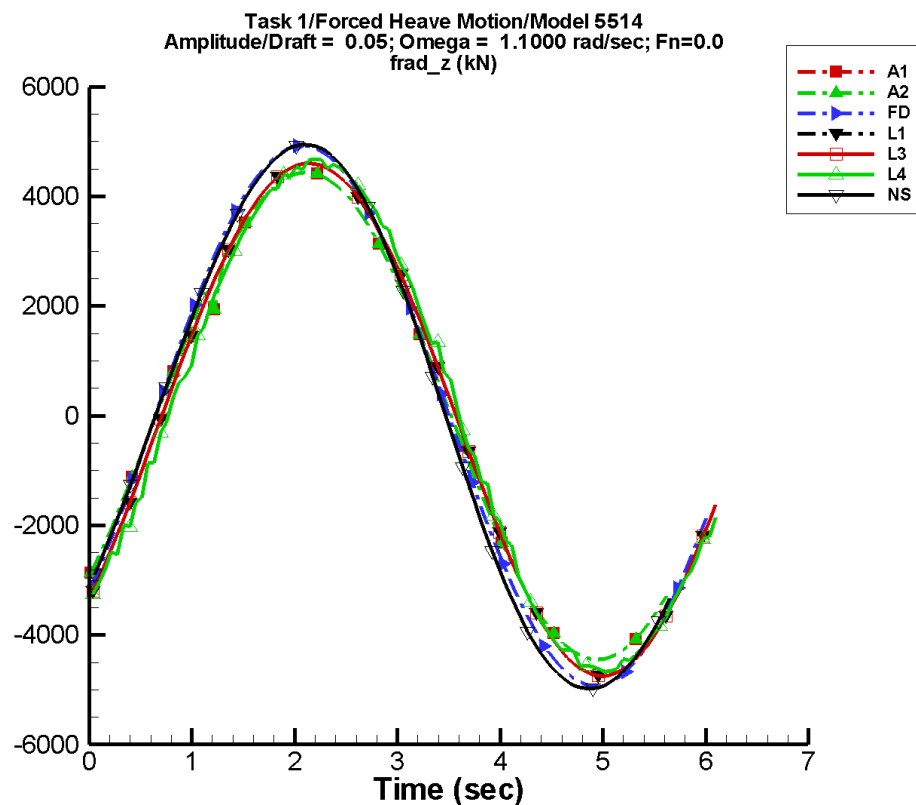
Table B–499. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	51.0	2.75E+04	-26	15.5	106
A2	51.0	2.75E+04	-26	15.5	106
FD	-2.43E-03	2.44E+04	-51	3.88E-03	-97
L1	1.01E+03	6.51E+04	-33	1.40E+03	79
L3	1.01E+03	6.51E+04	-33	1.40E+03	79
L4	-8.04E+03	5.48E+04	-39	1.00E+04	52
NF	—	—	—	—	—
NS	-1.92E+03	1.96E+04	-44	4.61E+03	55

Table B–500. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.74E+04	2.76E+04	-2.73E+04	2.76E+04
A2	-2.74E+04	2.76E+04	-2.73E+04	2.76E+04
FD	-2.44E+04	2.44E+04	-2.43E+04	2.43E+04
L1	-6.50E+04	6.54E+04	-6.49E+04	6.53E+04
L3	-6.50E+04	6.54E+04	-6.49E+04	6.53E+04
L4	-6.95E+04	4.54E+04	-6.82E+04	4.51E+04
NF	—	—	—	—
NS	-2.48E+04	1.94E+04	-2.46E+04	1.88E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-251. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

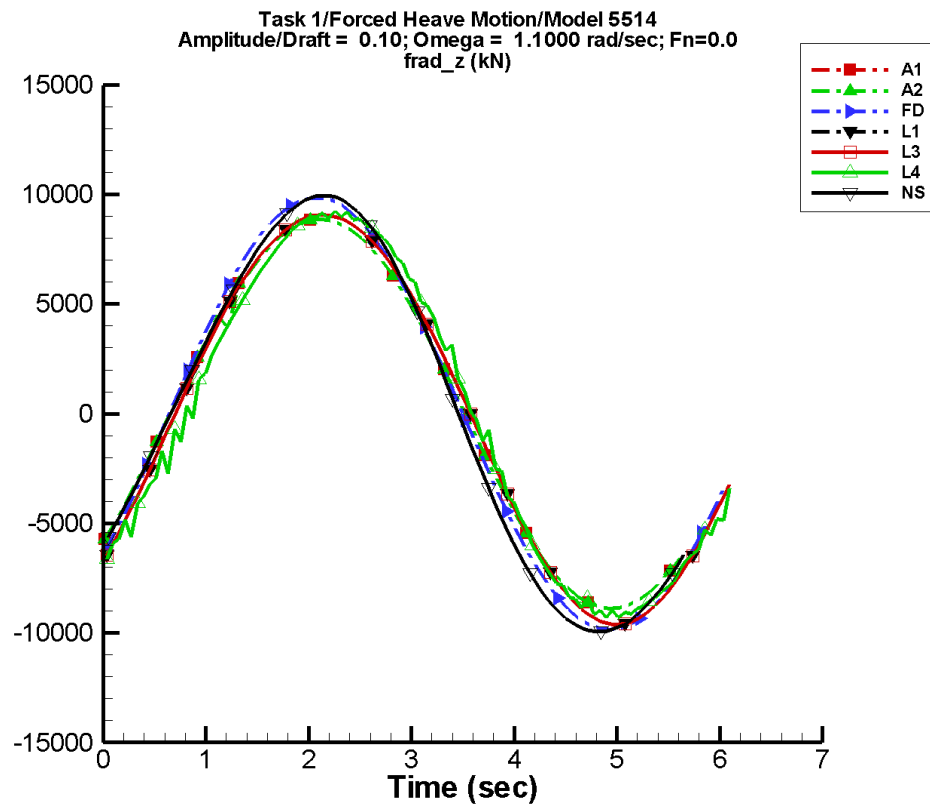
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-5.24	4.43E+03	-42	60.3	83
A2	-5.24	4.43E+03	-42	60.3	83
FD	-9.77E-05	4.93E+03	-41	9.48E-04	15
L1	-21.2	4.69E+03	-45	43.1	-4
L3	-21.2	4.69E+03	-45	43.1	-4
L4	-22.9	4.66E+03	-48	92.7	108
NF	—	—	—	—	—
NS	-49.3	4.96E+03	-40	134.	117

Table B–502. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.45E+03	4.44E+03	-4.31E+03	4.31E+03
A2	-4.45E+03	4.44E+03	-4.31E+03	4.31E+03
FD	-4.93E+03	4.92E+03	-4.78E+03	4.78E+03
L1	-4.75E+03	4.64E+03	-4.70E+03	4.59E+03
L3	-4.75E+03	4.64E+03	-4.70E+03	4.59E+03
L4	-4.68E+03	4.71E+03	-4.58E+03	4.64E+03
NF	—	—	—	—
NS	-4.98E+03	4.96E+03	-4.93E+03	4.91E+03



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

Figure B-252. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

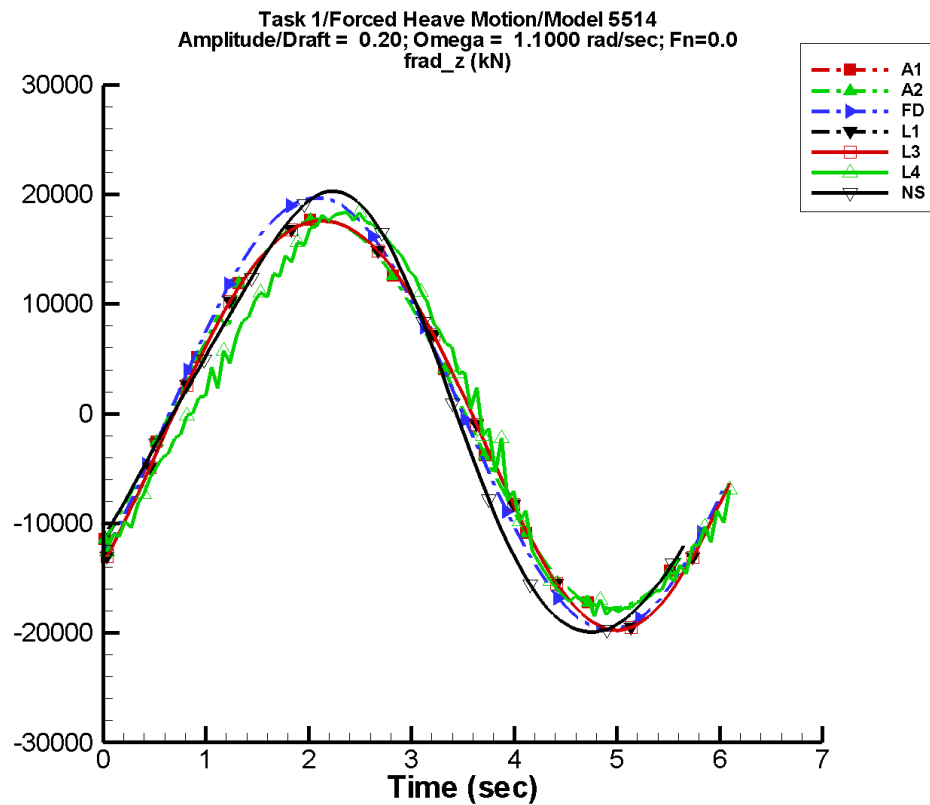
Table B–503. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-10.5	8.84E+03	-42	120.	83
A2	-10.5	8.84E+03	-42	120.	83
FD	-1.96E-04	9.86E+03	-41	2.09E-03	13
L1	-76.4	9.36E+03	-45	182.	-5
L3	-76.4	9.36E+03	-45	182.	-5
L4	-115.	9.26E+03	-49	349.	107
NF	—	—	—	—	—
NS	-145.	9.89E+03	-40	535.	117

Table B–504. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.88E+03	8.87E+03	-8.61E+03	8.60E+03
A2	-8.88E+03	8.87E+03	-8.61E+03	8.60E+03
FD	-9.86E+03	9.85E+03	-9.56E+03	9.56E+03
L1	-9.61E+03	9.13E+03	-9.50E+03	9.04E+03
L3	-9.61E+03	9.13E+03	-9.50E+03	9.04E+03
L4	-9.32E+03	9.36E+03	-9.07E+03	9.09E+03
NF	—	—	—	—
NS	-9.94E+03	9.98E+03	-9.85E+03	9.87E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-253. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

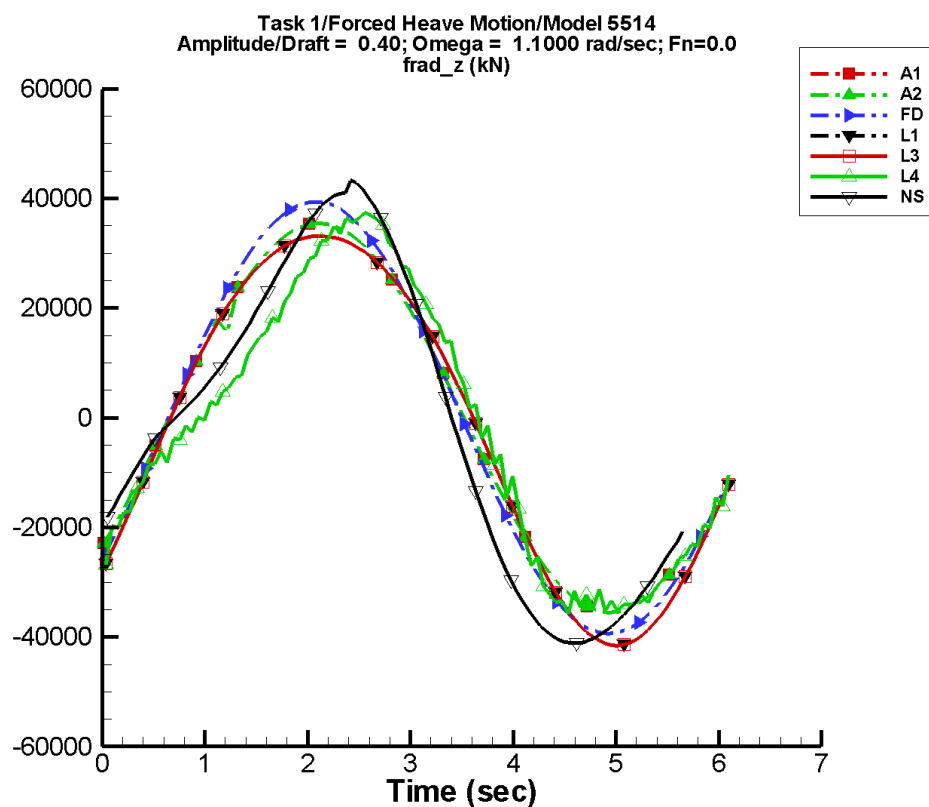
Table B–505. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-20.9	1.77E+04	-42	241.	83
A2	-20.9	1.77E+04	-42	241.	83
FD	-7.00E-04	1.97E+04	-41	4.49E-03	9
L1	-290.	1.87E+04	-45	746.	-6
L3	-290.	1.87E+04	-45	746.	-6
L4	-386.	1.79E+04	-51	1.57E+03	90
NF	—	—	—	—	—
NS	-492.	1.96E+04	-40	2.20E+03	115

Table B–506. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.78E+04	1.77E+04	-1.72E+04	1.72E+04
A2	-1.78E+04	1.77E+04	-1.72E+04	1.72E+04
FD	-1.97E+04	1.97E+04	-1.91E+04	1.91E+04
L1	-1.97E+04	1.78E+04	-1.95E+04	1.76E+04
L3	-1.97E+04	1.78E+04	-1.95E+04	1.76E+04
L4	-1.85E+04	1.87E+04	-1.77E+04	1.82E+04
NF	—	—	—	—
NS	-1.99E+04	2.04E+04	-1.97E+04	2.01E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-254. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

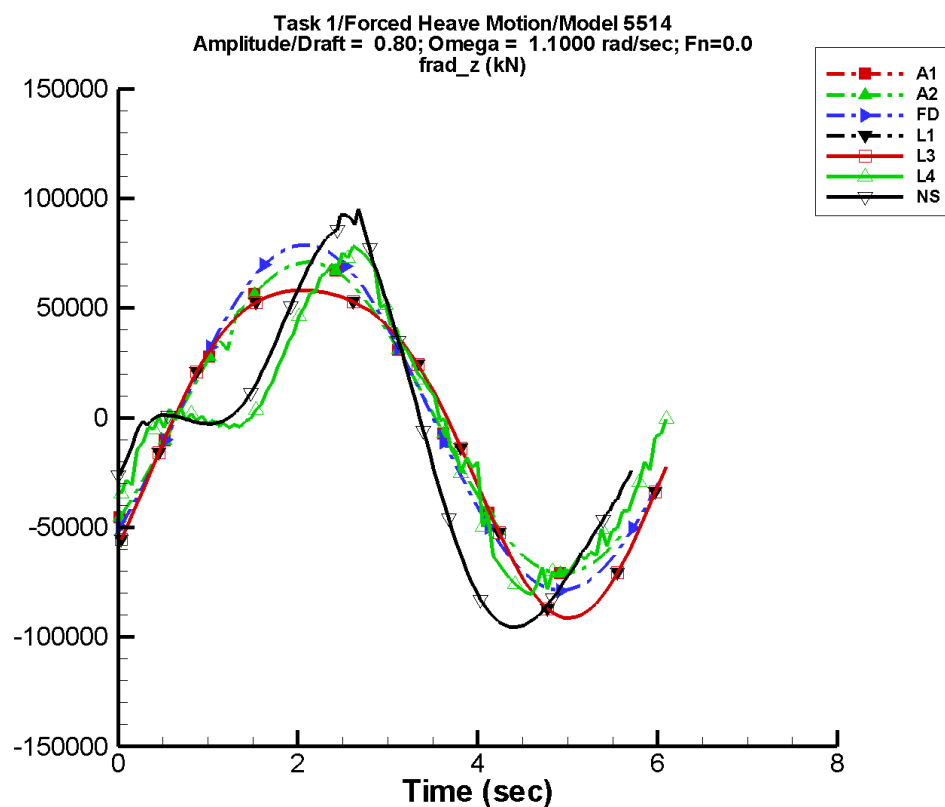
Table B–507. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-41.9	3.53E+04	-42	482.	83
A2	-41.9	3.53E+04	-42	482.	83
FD	-7.75E-04	3.94E+04	-41	9.77E-03	7
L1	-1.13E+03	3.74E+04	-45	3.02E+03	-6
L3	-1.13E+03	3.74E+04	-45	3.02E+03	-6
L4	-1.48E+03	3.36E+04	-54	6.29E+03	84
NF	—	—	—	—	—
NS	-2.11E+03	3.80E+04	-40	8.88E+03	109

Table B–508. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.55E+04	3.55E+04	-3.44E+04	3.44E+04
A2	-3.55E+04	3.55E+04	-3.44E+04	3.44E+04
FD	-3.94E+04	3.94E+04	-3.82E+04	3.83E+04
L1	-4.16E+04	3.34E+04	-4.10E+04	3.32E+04
L3	-4.16E+04	3.34E+04	-4.10E+04	3.32E+04
L4	-3.57E+04	3.80E+04	-3.39E+04	3.60E+04
NF	—	—	—	—
NS	-4.12E+04	4.37E+04	-4.07E+04	4.15E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-255. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

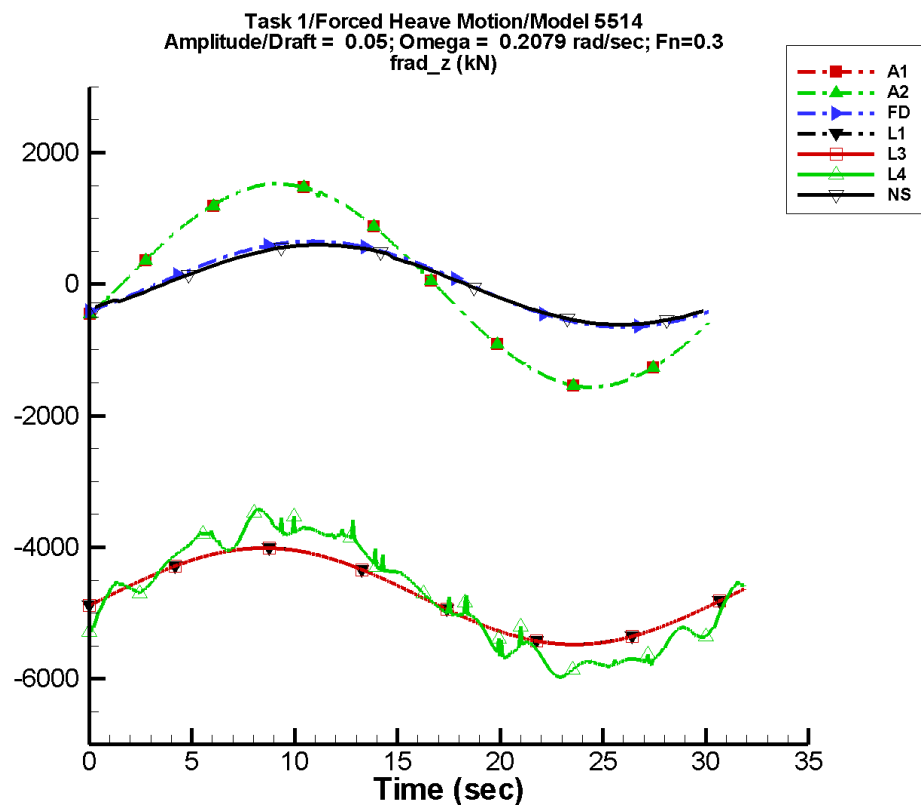
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-83.7	7.07E+04	-42	963.	83
A2	-83.7	7.07E+04	-42	963.	83
FD	-1.51E-03	7.89E+04	-41	1.94E-02	3
L1	-4.45E+03	7.48E+04	-45	1.22E+04	-6
L3	-4.45E+03	7.48E+04	-45	1.22E+04	-6
L4	-5.23E+03	6.10E+04	-51	2.58E+04	78
NF	—	—	—	—	—
NS	-8.75E+03	7.16E+04	-37	3.44E+04	102

Table B–510. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.11E+04	7.10E+04	-6.89E+04	6.88E+04
A2	-7.11E+04	7.10E+04	-6.89E+04	6.88E+04
FD	-7.89E+04	7.88E+04	-7.64E+04	7.65E+04
L1	-9.14E+04	5.87E+04	-9.00E+04	5.84E+04
L3	-9.14E+04	5.87E+04	-9.00E+04	5.84E+04
L4	-8.05E+04	7.82E+04	-7.66E+04	7.37E+04
NF	—	—	—	—
NS	-9.56E+04	9.53E+04	-9.49E+04	9.03E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-256. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

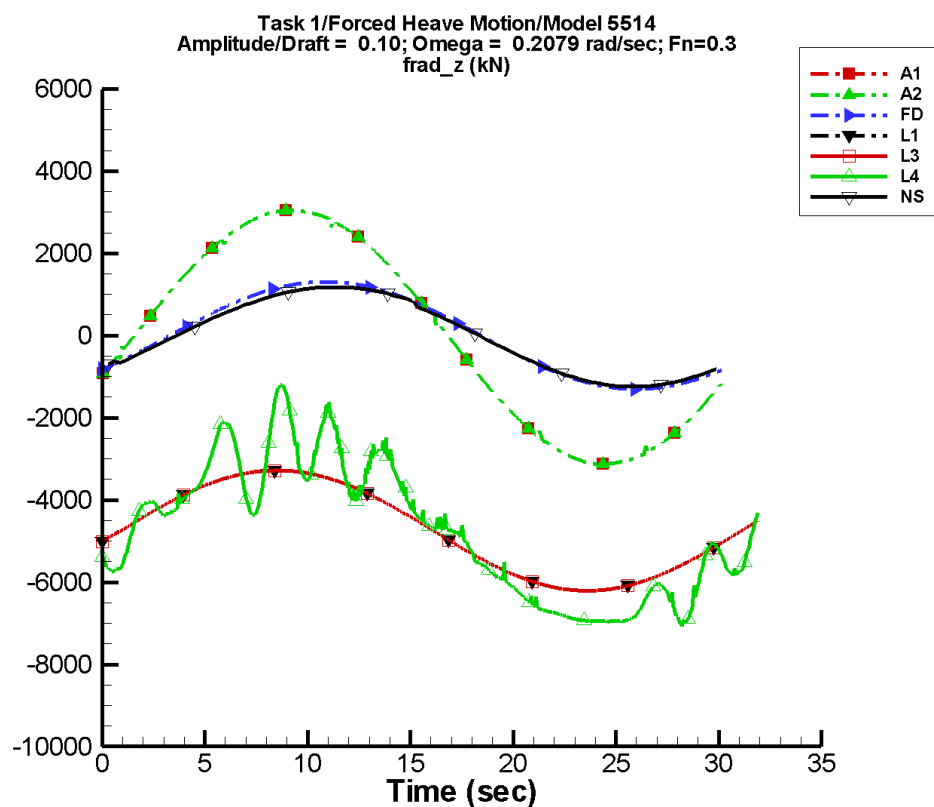
Table B–511. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-8.84	1.55E+03	-20	18.0	-1
A2	-8.84	1.55E+03	-20	18.0	-1
FD	1.28E-05	652.	-40	8.24E-05	-172
L1	-4.74E+03	733.	-11	1.14	80
L3	-4.74E+03	733.	-11	1.14	80
L4	-4.74E+03	1.09E+03	-18	2.93	28
NF	—	—	—	—	—
NS	-10.4	601.	-41	18.9	139

Table B–512. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.57E+03	1.52E+03	-1.57E+03	1.52E+03
A2	-1.57E+03	1.52E+03	-1.57E+03	1.52E+03
FD	-652.	652.	-651.	651.
L1	-5.48E+03	-4.01E+03	-5.48E+03	-4.01E+03
L3	-5.48E+03	-4.01E+03	-5.48E+03	-4.01E+03
L4	-5.97E+03	-3.42E+03	-5.96E+03	-3.44E+03
NF	—	—	—	—
NS	-615.	608.	-608.	602.

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-257. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

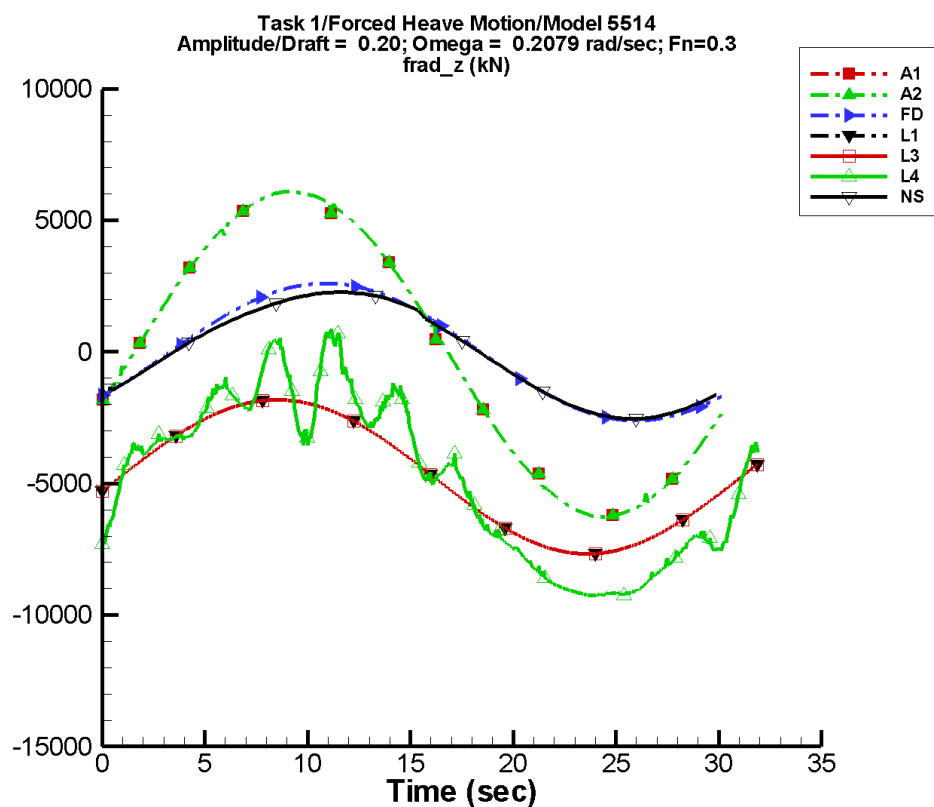
Table B–513. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-17.7	3.09E+03	-20	35.9	-1
A2	-17.7	3.09E+03	-20	35.9	-1
FD	6.35E-05	1.30E+03	-40	1.63E-04	-160
L1	-4.74E+03	1.46E+03	-11	4.54	80
L3	-4.74E+03	1.46E+03	-11	4.53	80
L4	-4.77E+03	2.17E+03	-20	7.08	128
NF	—	—	—	—	—
NS	-26.7	1.21E+03	-41	37.8	123

Table B–514. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.13E+03	3.04E+03	-3.13E+03	3.04E+03
A2	-3.13E+03	3.04E+03	-3.13E+03	3.04E+03
FD	-1.30E+03	1.30E+03	-1.30E+03	1.30E+03
L1	-6.21E+03	-3.28E+03	-6.21E+03	-3.28E+03
L3	-6.21E+03	-3.28E+03	-6.21E+03	-3.28E+03
L4	-7.06E+03	-1.20E+03	-6.98E+03	-1.28E+03
NF	—	—	—	—
NS	-1.24E+03	1.20E+03	-1.23E+03	1.19E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-258. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

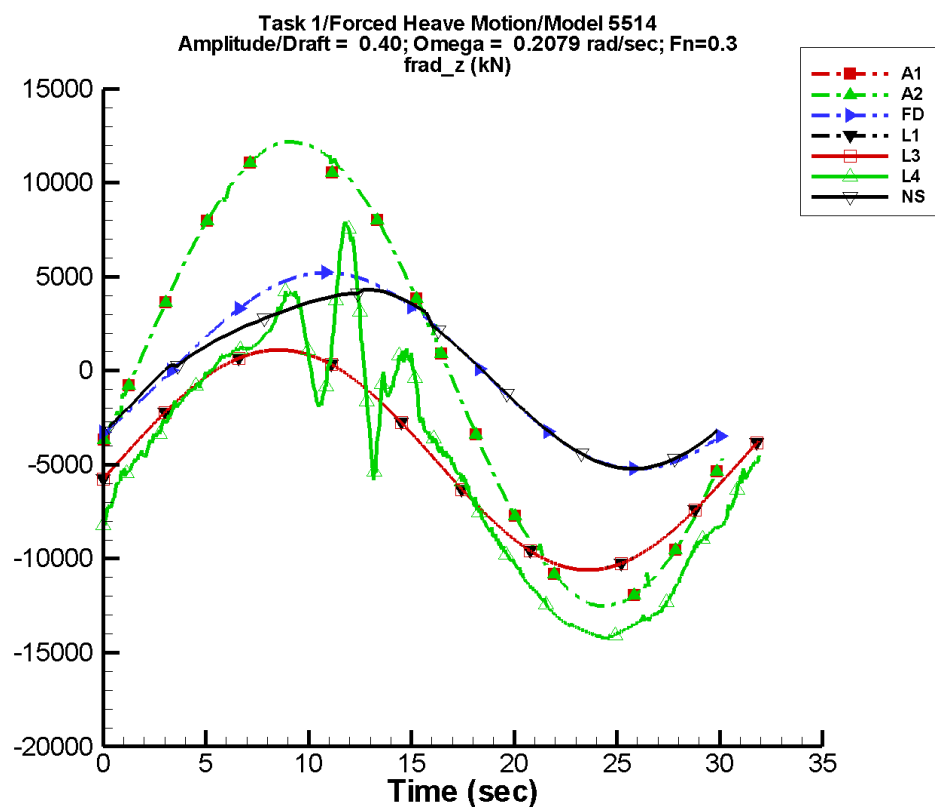
Table B–515. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-35.3	6.18E+03	-20	71.8	-1
A2	-35.3	6.18E+03	-20	71.8	-1
FD	6.90E-05	2.61E+03	-40	2.43E-04	-155
L1	-4.73E+03	2.93E+03	-11	18.1	80
L3	-4.73E+03	2.93E+03	-11	18.1	80
L4	-4.85E+03	4.21E+03	-20	322.	69
NF	—	—	—	—	—
NS	-77.0	2.39E+03	-41	97.4	82

Table B–516. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.26E+03	6.09E+03	-6.25E+03	6.08E+03
A2	-6.26E+03	6.09E+03	-6.25E+03	6.08E+03
FD	-2.61E+03	2.61E+03	-2.61E+03	2.61E+03
L1	-7.67E+03	-1.82E+03	-7.67E+03	-1.82E+03
L3	-7.67E+03	-1.82E+03	-7.67E+03	-1.82E+03
L4	-9.28E+03	1.18E+03	-9.25E+03	954.
NF	—	—	—	—
NS	-2.54E+03	2.31E+03	-2.51E+03	2.29E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-259. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

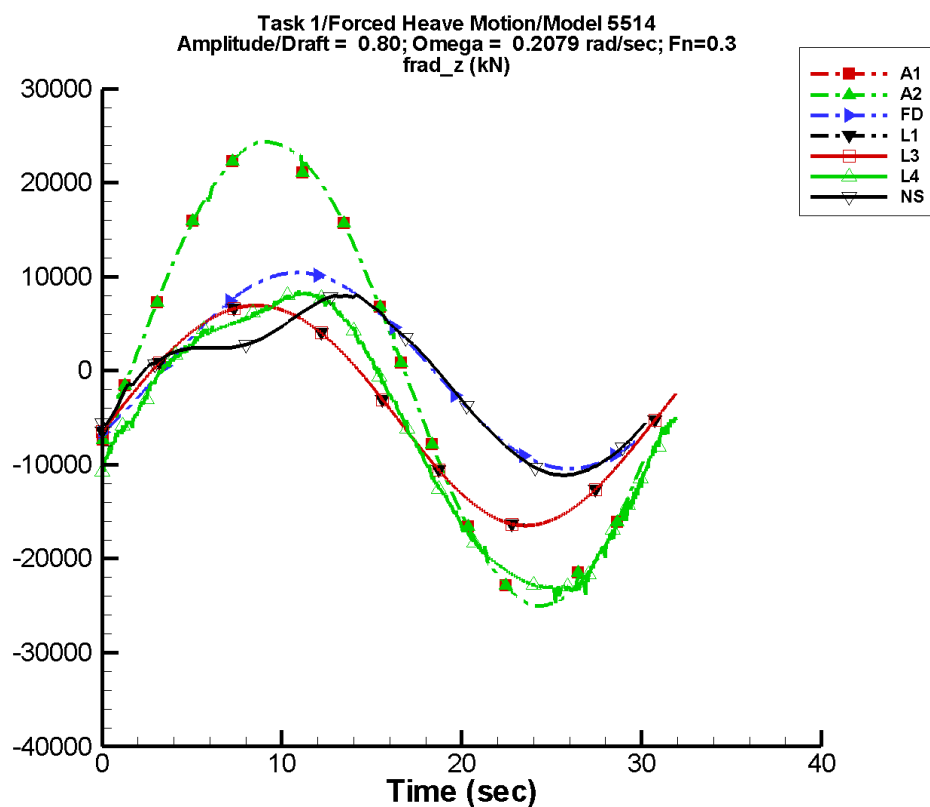
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-70.6	1.24E+04	-20	144.	-1
A2	-70.6	1.24E+04	-20	144.	-1
FD	7.50E-05	5.22E+03	-40	6.35E-04	-165
L1	-4.68E+03	5.85E+03	-11	72.5	80
L3	-4.68E+03	5.85E+03	-11	72.5	80
L4	-5.18E+03	8.37E+03	-21	702.	81
NF	—	—	—	—	—
NS	-233.	4.63E+03	-42	517.	58

Table B–518. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.25E+04	1.22E+04	-1.25E+04	1.22E+04
A2	-1.25E+04	1.22E+04	-1.25E+04	1.22E+04
FD	-5.22E+03	5.22E+03	-5.21E+03	5.21E+03
L1	-1.06E+04	1.10E+03	-1.06E+04	1.10E+03
L3	-1.06E+04	1.10E+03	-1.06E+04	1.10E+03
L4	-1.43E+04	7.91E+03	-1.42E+04	7.55E+03
NF	—	—	—	—
NS	-5.21E+03	4.42E+03	-5.15E+03	4.29E+03



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-260. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

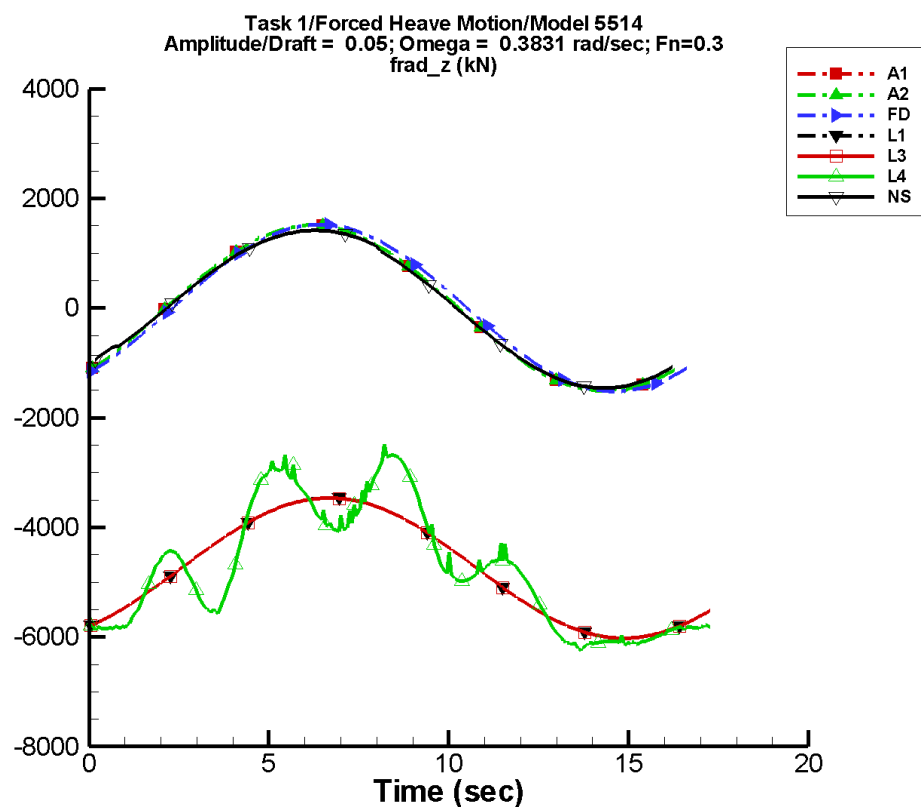
Table B–519. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-141.	2.47E+04	-20	287.	-1
A2	-141.	2.47E+04	-20	287.	-1
FD	3.64E-04	1.04E+04	-40	1.25E-03	-148
L1	-4.48E+03	1.17E+04	-11	290.	80
L3	-4.48E+03	1.17E+04	-11	290.	80
L4	-6.54E+03	1.56E+04	-22	1.92E+03	72
NF	—	—	—	—	—
NS	-953.	8.49E+03	-43	2.26E+03	52

Table B–520. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.50E+04	2.44E+04	-2.50E+04	2.43E+04
A2	-2.50E+04	2.44E+04	-2.50E+04	2.43E+04
FD	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04
L1	-1.65E+04	6.94E+03	-1.65E+04	6.94E+03
L3	-1.65E+04	6.94E+03	-1.65E+04	6.94E+03
L4	-2.47E+04	8.53E+03	-2.34E+04	8.21E+03
NF	—	—	—	—
NS	-1.11E+04	8.22E+03	-1.10E+04	8.07E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-261. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

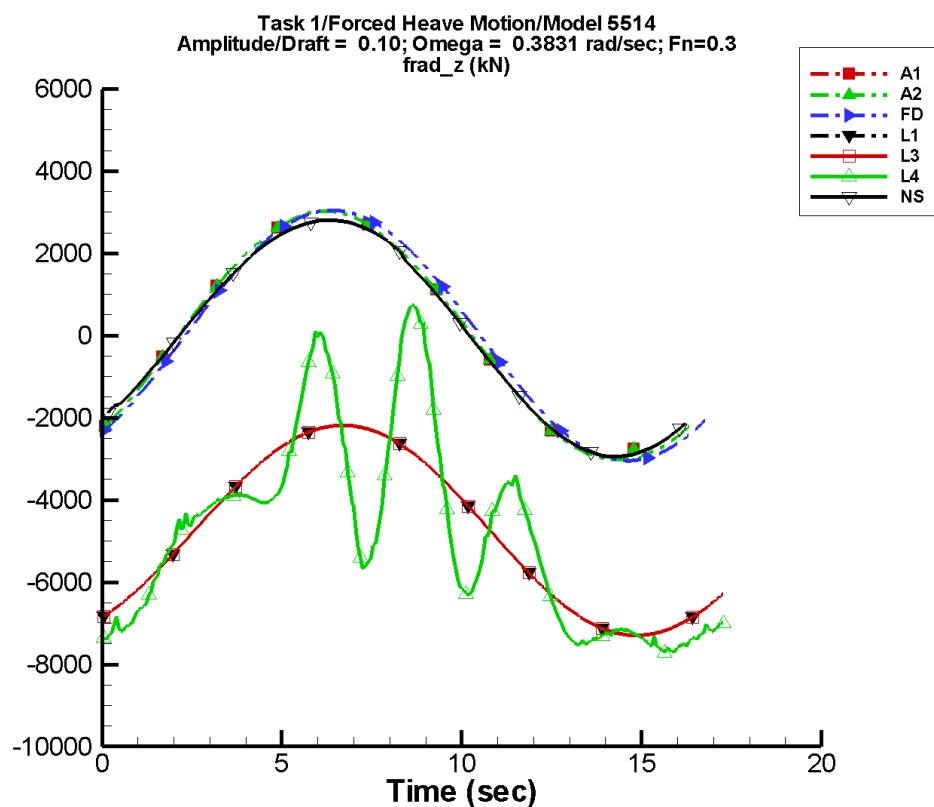
Table B–521. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-3.57	1.51E+03	-45	2.13	16
A2	-3.57	1.51E+03	-45	2.13	16
FD	-1.75E-04	1.52E+03	-51	2.12E-04	-88
L1	-4.74E+03	1.28E+03	-57	3.20	48
L3	-4.74E+03	1.28E+03	-57	3.22	48
L4	-4.72E+03	1.40E+03	-63	84.0	76
NF	—	—	—	—	—
NS	-23.1	1.43E+03	-46	24.8	119

Table B–522. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.52E+03	1.52E+03	-1.50E+03	1.51E+03
A2	-1.52E+03	1.52E+03	-1.50E+03	1.51E+03
FD	-1.52E+03	1.52E+03	-1.52E+03	1.52E+03
L1	-6.02E+03	-3.46E+03	-6.02E+03	-3.47E+03
L3	-6.02E+03	-3.47E+03	-6.02E+03	-3.47E+03
L4	-6.25E+03	-2.49E+03	-6.17E+03	-2.69E+03
NF	—	—	—	—
NS	-1.46E+03	1.42E+03	-1.45E+03	1.41E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-262. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

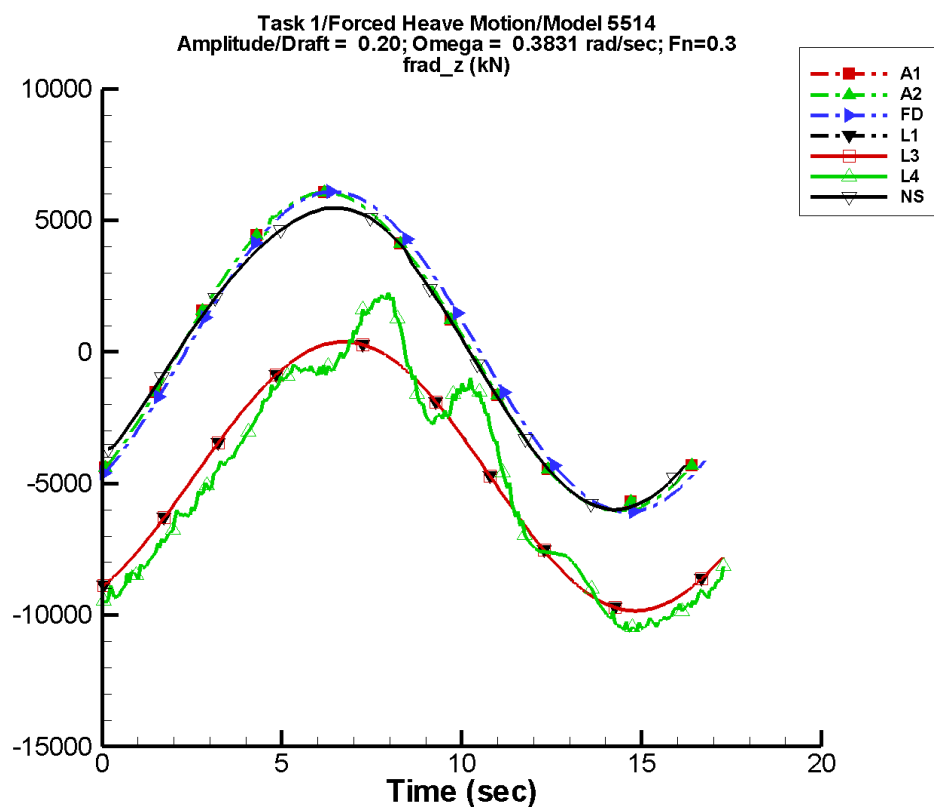
Table B–523. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-7.14	3.02E+03	-45	4.26	16
A2	-7.14	3.02E+03	-45	4.26	16
FD	-2.28E-04	3.04E+03	-51	4.53E-04	-95
L1	-4.74E+03	2.55E+03	-57	12.8	48
L3	-4.74E+03	2.55E+03	-57	12.8	48
L4	-4.77E+03	2.73E+03	-62	207.	-28
NF	—	—	—	—	—
NS	-57.0	2.86E+03	-46	59.1	97

Table B–524. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.04E+03	3.03E+03	-2.99E+03	3.02E+03
A2	-3.04E+03	3.03E+03	-2.99E+03	3.02E+03
FD	-3.04E+03	3.04E+03	-3.04E+03	3.03E+03
L1	-7.30E+03	-2.19E+03	-7.29E+03	-2.19E+03
L3	-7.30E+03	-2.19E+03	-7.29E+03	-2.19E+03
L4	-7.71E+03	738.	-7.65E+03	575.
NF	—	—	—	—
NS	-2.95E+03	2.81E+03	-2.92E+03	2.78E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-263. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

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Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

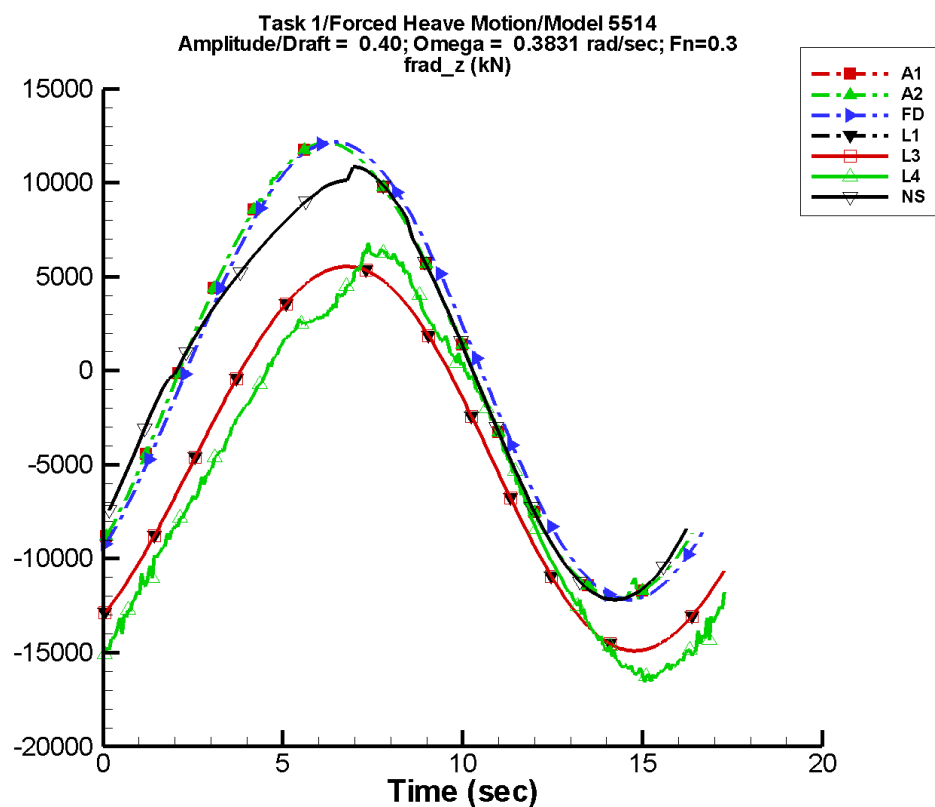
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-14.3	6.04E+03	-45	8.52	16
A2	-14.3	6.04E+03	-45	8.52	16
FD	-5.54E-04	6.09E+03	-51	9.11E-04	-99
L1	-4.71E+03	5.11E+03	-57	51.1	48
L3	-4.71E+03	5.11E+03	-57	51.2	48
L4	-4.82E+03	5.41E+03	-67	278.	48
NF	—	—	—	—	—
NS	-162.	5.68E+03	-46	209.	67

Table B–526. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+03	6.06E+03	-5.98E+03	6.03E+03
A2	-6.07E+03	6.06E+03	-5.98E+03	6.03E+03
FD	-6.09E+03	6.09E+03	-6.08E+03	6.07E+03
L1	-9.84E+03	380.	-9.83E+03	374.
L3	-9.84E+03	380.	-9.83E+03	373.
L4	-1.06E+04	2.25E+03	-1.05E+04	2.05E+03
NF	—	—	—	—
NS	-5.99E+03	5.48E+03	-5.93E+03	5.42E+03



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

Figure B-264. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

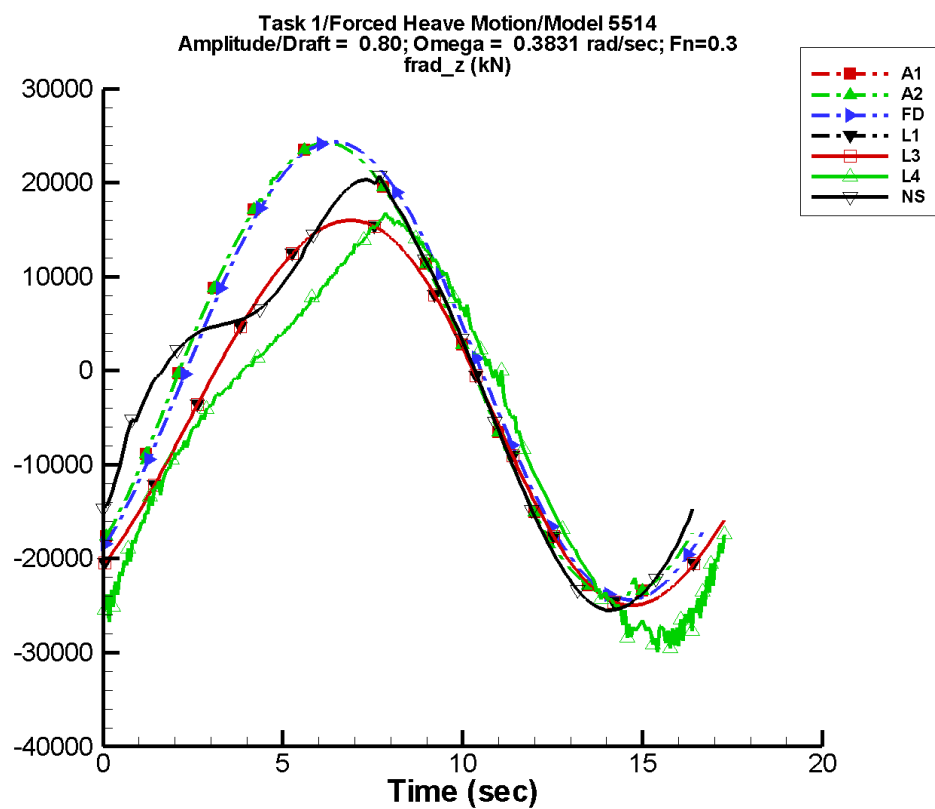
Table B–527. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-28.5	1.21E+04	-45	17.0	16
A2	-28.5	1.21E+04	-45	17.0	16
FD	-1.24E-03	1.22E+04	-51	1.93E-03	-100
L1	-4.62E+03	1.02E+04	-57	205.	48
L3	-4.62E+03	1.02E+04	-57	205.	48
L4	-5.09E+03	1.05E+04	-68	809.	23
NF	—	—	—	—	—
NS	-456.	1.10E+04	-47	1.12E+03	55

Table B–528. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04
A2	-1.21E+04	1.21E+04	-1.20E+04	1.21E+04
FD	-1.22E+04	1.22E+04	-1.22E+04	1.21E+04
L1	-1.49E+04	5.54E+03	-1.49E+04	5.53E+03
L3	-1.49E+04	5.54E+03	-1.49E+04	5.53E+03
L4	-1.66E+04	6.81E+03	-1.63E+04	6.30E+03
NF	—	—	—	—
NS	-1.22E+04	1.09E+04	-1.21E+04	1.05E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-265. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

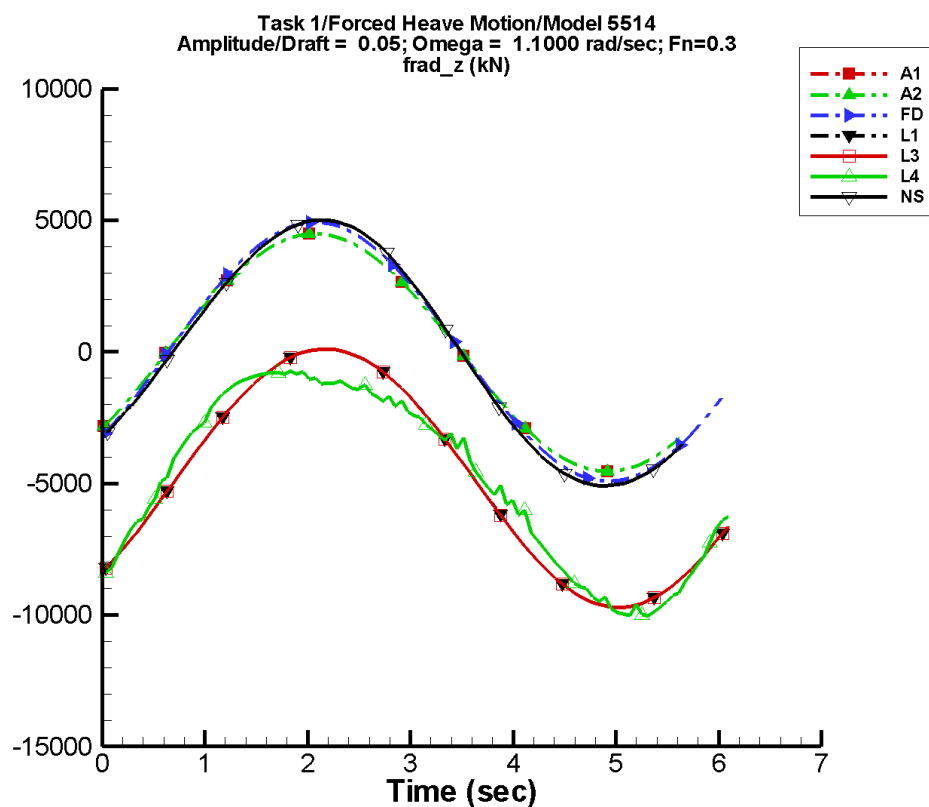
Table B–529. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-57.1	2.42E+04	-45	34.1	16
A2	-57.1	2.42E+04	-45	34.1	16
FD	-2.43E-03	2.44E+04	-51	3.88E-03	-97
L1	-4.23E+03	2.04E+04	-57	819.	48
L3	-4.23E+03	2.04E+04	-57	819.	48
L4	-5.40E+03	2.02E+04	-69	3.32E+03	10
NF	—	—	—	—	—
NS	-1.82E+03	2.03E+04	-48	4.84E+03	51

Table B–530. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.43E+04	2.42E+04	-2.39E+04	2.41E+04
A2	-2.43E+04	2.42E+04	-2.39E+04	2.41E+04
FD	-2.44E+04	2.44E+04	-2.43E+04	2.43E+04
L1	-2.50E+04	1.60E+04	-2.50E+04	1.60E+04
L3	-2.50E+04	1.60E+04	-2.50E+04	1.60E+04
L4	-2.99E+04	1.68E+04	-2.83E+04	1.62E+04
NF	—	—	—	—
NS	-2.55E+04	2.08E+04	-2.53E+04	2.02E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-266. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

TASK 1/HEAVE MOTION/MODEL 5514

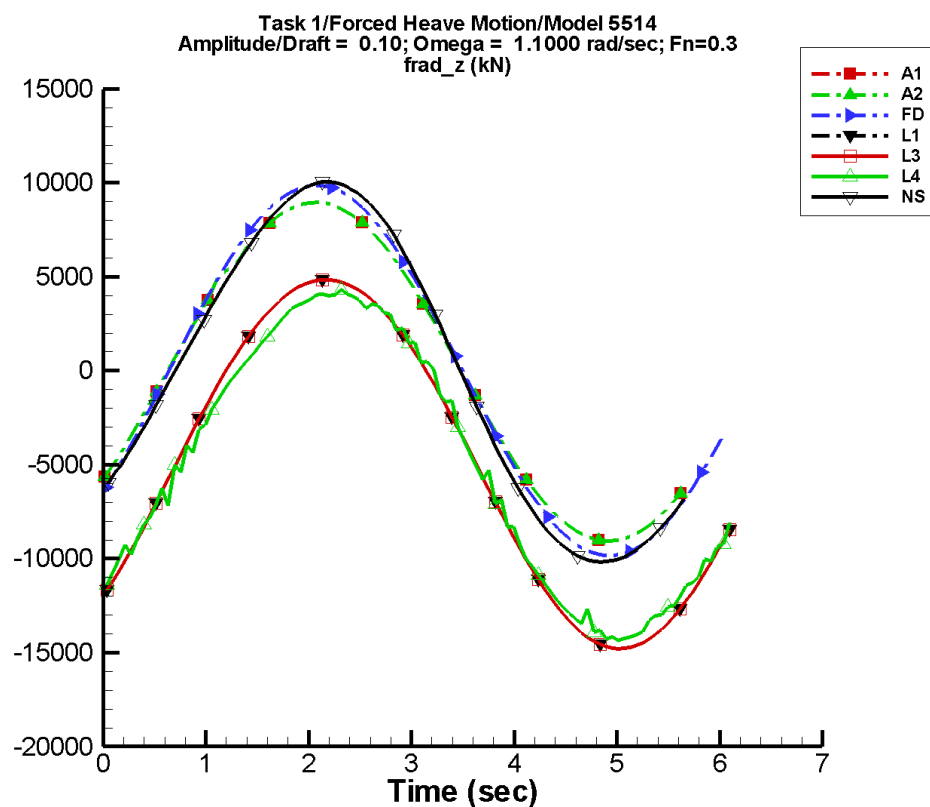
Table B–531. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-20.0	4.51E+03	-40	32.9	49
A2	-20.0	4.51E+03	-40	32.9	49
FD	-9.77E-05	4.93E+03	-41	9.48E-04	15
L1	-4.75E+03	4.92E+03	-47	45.2	-2
L3	-4.76E+03	4.92E+03	-47	45.0	-2
L4	-4.73E+03	4.48E+03	-46	895.	-38
NF	—	—	—	—	—
NS	-85.4	5.04E+03	-42	159.	118

Table B–532. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.55E+03	4.48E+03	-4.41E+03	4.34E+03
A2	-4.55E+03	4.48E+03	-4.41E+03	4.34E+03
FD	-4.93E+03	4.92E+03	-4.78E+03	4.78E+03
L1	-9.71E+03	119.	-9.66E+03	69.9
L3	-9.72E+03	119.	-9.66E+03	69.4
L4	-1.00E+04	-725.	-9.88E+03	-817.
NF	—	—	—	—
NS	-5.09E+03	5.01E+03	-5.04E+03	4.96E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-267. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

Table B–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  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

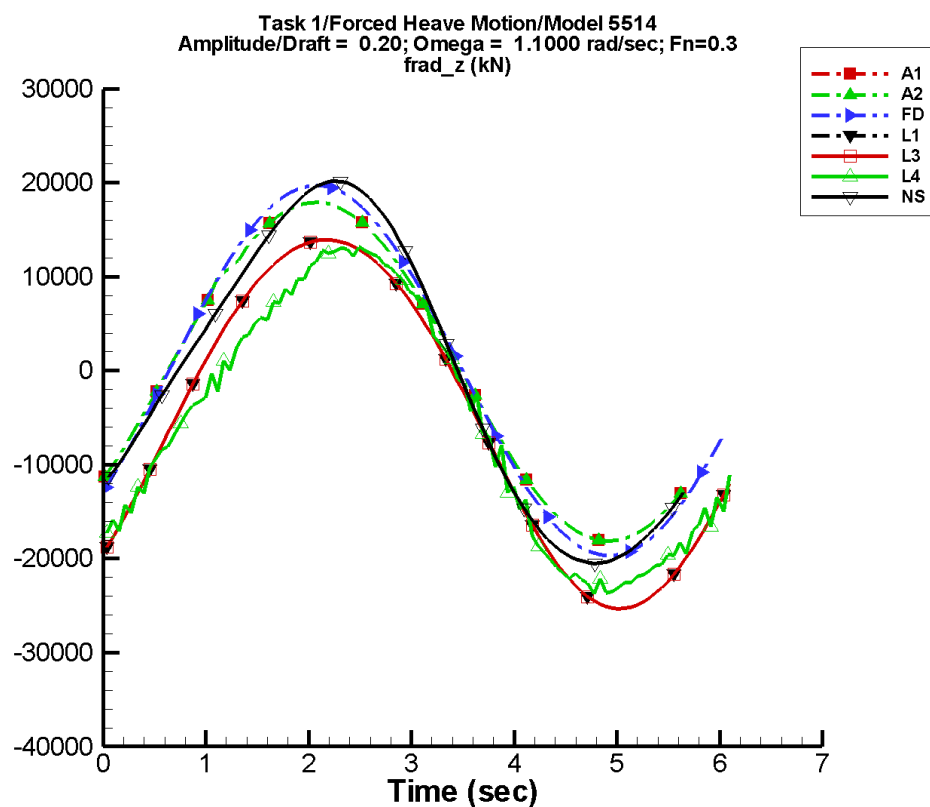
Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-40.0	9.00E+03	-40	65.7	49
A2	-40.0	9.00E+03	-40	65.7	49
FD	-1.96E-04	9.86E+03	-41	2.09E-03	13
L1	-4.80E+03	9.82E+03	-47	181.	-3
L3	-4.80E+03	9.82E+03	-47	181.	-3
L4	-4.87E+03	9.11E+03	-49	380.	64
NF	—	—	—	—	—
NS	-249.	1.00E+04	-42	579.	116

Table B–534. Minimum and maximum of of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.08E+03	8.95E+03	-8.80E+03	8.67E+03
A2	-9.08E+03	8.95E+03	-8.80E+03	8.67E+03
FD	-9.86E+03	9.85E+03	-9.56E+03	9.56E+03
L1	-1.48E+04	4.84E+03	-1.47E+04	4.74E+03
L3	-1.48E+04	4.84E+03	-1.47E+04	4.74E+03
L4	-1.44E+04	4.32E+03	-1.41E+04	4.02E+03
NF	—	—	—	—
NS	-1.02E+04	1.01E+04	-1.01E+04	9.94E+03



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-268. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

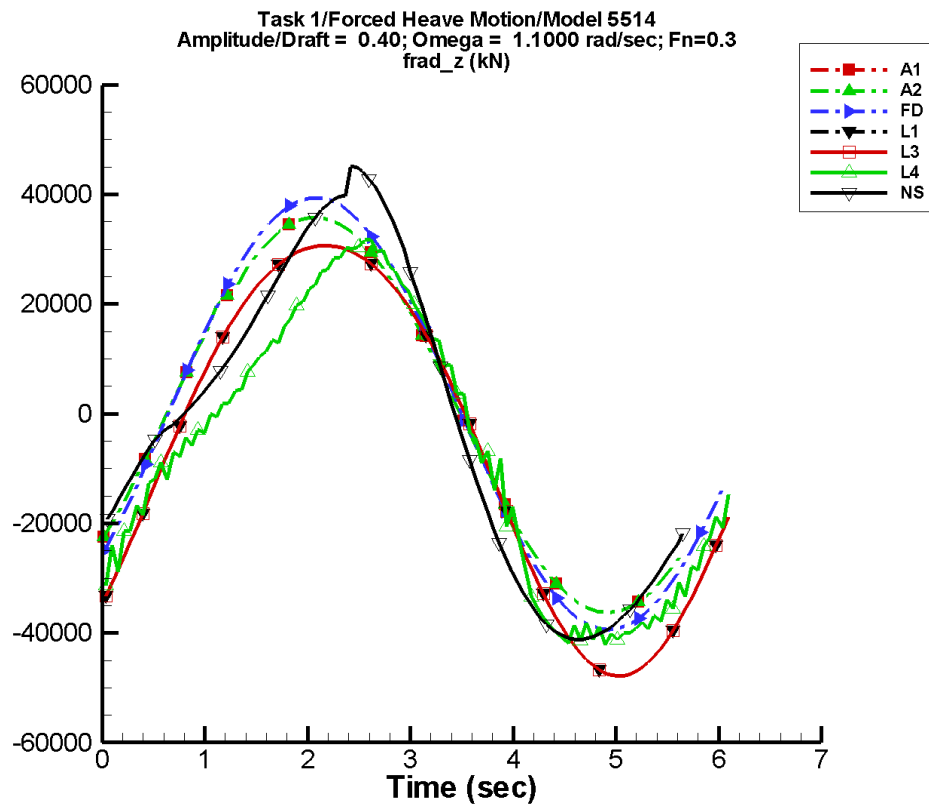
Table B–535. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-80.0	1.80E+04	-40	131.	49
A2	-80.0	1.80E+04	-40	131.	49
FD	-7.00E-04	1.97E+04	-41	4.49E-03	9
L1	-4.98E+03	1.96E+04	-47	725.	-3
L3	-4.98E+03	1.96E+04	-47	725.	-3
L4	-5.34E+03	1.78E+04	-51	1.83E+03	78
NF	—	—	—	—	—
NS	-887.	1.98E+04	-42	2.22E+03	112

Table B–536. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.82E+04	1.79E+04	-1.76E+04	1.73E+04
A2	-1.82E+04	1.79E+04	-1.76E+04	1.73E+04
FD	-1.97E+04	1.97E+04	-1.91E+04	1.91E+04
L1	-2.53E+04	1.39E+04	-2.51E+04	1.38E+04
L3	-2.53E+04	1.39E+04	-2.51E+04	1.38E+04
L4	-2.37E+04	1.33E+04	-2.29E+04	1.29E+04
NF	—	—	—	—
NS	-2.05E+04	2.02E+04	-2.03E+04	1.99E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-269. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

# TASK 1/HEAVE MOTION/MODEL 5514

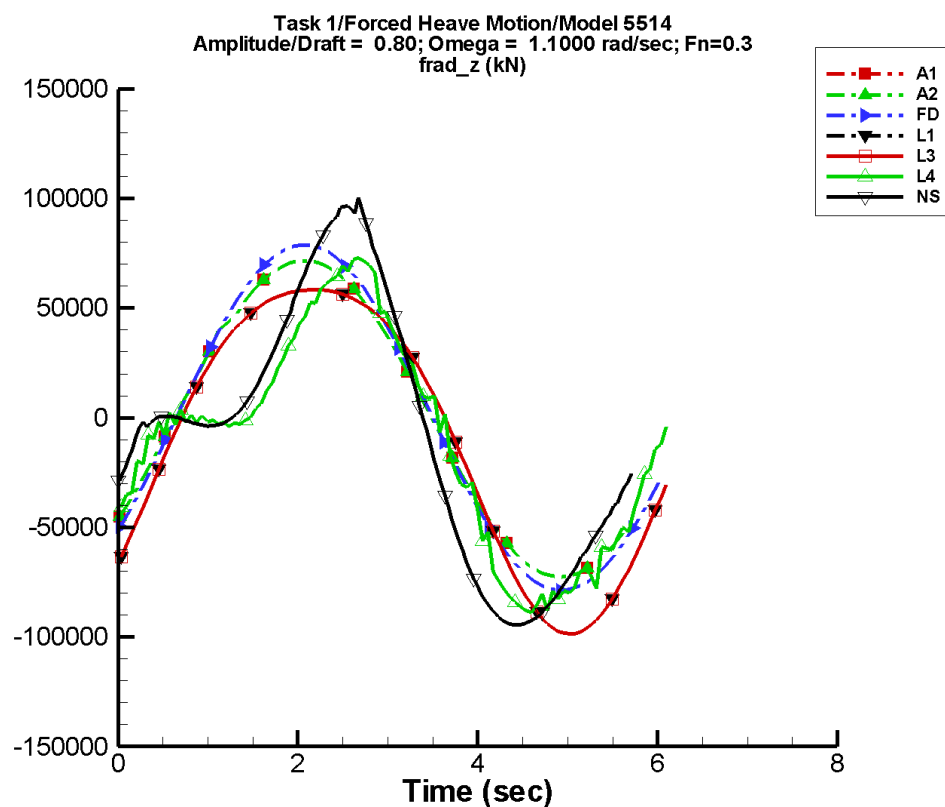
Table B–537. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-160.	3.60E+04	-40	263.	49
A2	-160.	3.60E+04	-40	263.	49
FD	-7.75E-04	3.94E+04	-41	9.77E-03	7
L1	-5.69E+03	3.93E+04	-47	2.90E+03	-4
L3	-5.69E+03	3.93E+04	-47	2.90E+03	-4
L4	-6.73E+03	3.42E+04	-53	6.45E+03	73
NF	—	—	—	—	—
NS	-2.21E+03	3.80E+04	-43	9.43E+03	104

Table B–538. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.63E+04	3.58E+04	-3.52E+04	3.47E+04
A2	-3.63E+04	3.58E+04	-3.52E+04	3.47E+04
FD	-3.94E+04	3.94E+04	-3.82E+04	3.83E+04
L1	-4.79E+04	3.07E+04	-4.73E+04	3.04E+04
L3	-4.79E+04	3.07E+04	-4.73E+04	3.04E+04
L4	-4.21E+04	3.32E+04	-4.04E+04	3.02E+04
NF	—	—	—	—
NS	-4.12E+04	4.55E+04	-4.07E+04	4.25E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-270. Time history of  $F_z^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

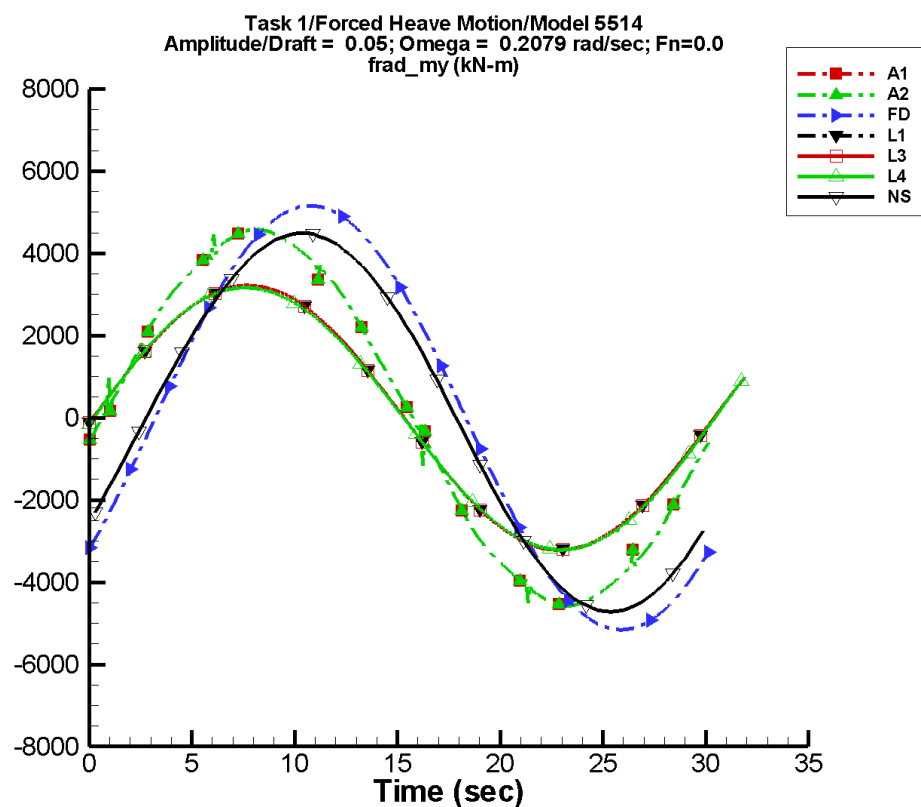
Table B–539. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $F_z^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN)	$a_1$ (kN)	$\Phi_1$ (deg)	$a_2$ (kN)	$\Phi_2$ (deg)
A1	-320.	7.20E+04	-40	525.	49
A2	-320.	7.20E+04	-40	525.	49
FD	-1.51E-03	7.89E+04	-41	1.94E-02	3
L1	-8.56E+03	7.85E+04	-47	1.16E+04	-4
L3	-8.56E+03	7.85E+04	-47	1.16E+04	-4
L4	-1.02E+04	6.41E+04	-48	2.56E+04	74
NF	—	—	—	—	—
NS	-7.44E+03	7.25E+04	-40	3.55E+04	100

Table B–540. Minimum and maximum of  $F_z^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.26E+04	7.16E+04	-7.04E+04	6.93E+04
A2	-7.26E+04	7.16E+04	-7.04E+04	6.93E+04
FD	-7.89E+04	7.88E+04	-7.64E+04	7.65E+04
L1	-9.87E+04	5.84E+04	-9.73E+04	5.81E+04
L3	-9.87E+04	5.84E+04	-9.73E+04	5.81E+04
L4	-8.91E+04	7.28E+04	-8.55E+04	6.85E+04
NF	—	—	—	—
NS	-9.46E+04	1.01E+05	-9.39E+04	9.58E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-271. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

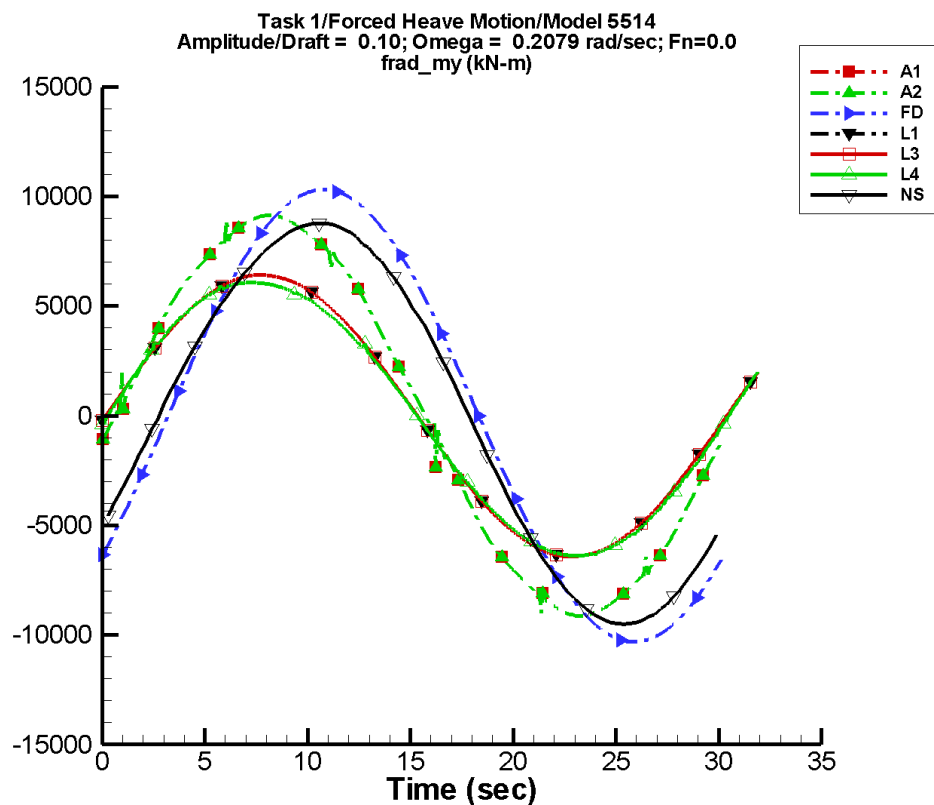
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-0.485	4.53E+03	-7	2.02	169
A2	-0.485	4.53E+03	-7	2.02	169
FD	6.96E-05	5.16E+03	-38	3.06E-04	-107
L1	4.40	3.22E+03	-2	5.31	88
L3	4.40	3.22E+03	-2	5.31	88
L4	-18.0	3.20E+03	-2	45.6	4
NF	—	—	—	—	—
NS	-31.5	4.60E+03	-33	61.1	62

Table B–542. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.57E+03	4.58E+03	-4.57E+03	4.57E+03
A2	-4.57E+03	4.58E+03	-4.57E+03	4.57E+03
FD	-5.16E+03	5.16E+03	-5.15E+03	5.15E+03
L1	-3.21E+03	3.22E+03	-3.21E+03	3.22E+03
L3	-3.21E+03	3.22E+03	-3.21E+03	3.22E+03
L4	-3.21E+03	3.16E+03	-3.21E+03	3.16E+03
NF	—	—	—	—
NS	-4.72E+03	4.56E+03	-4.67E+03	4.51E+03



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-272. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

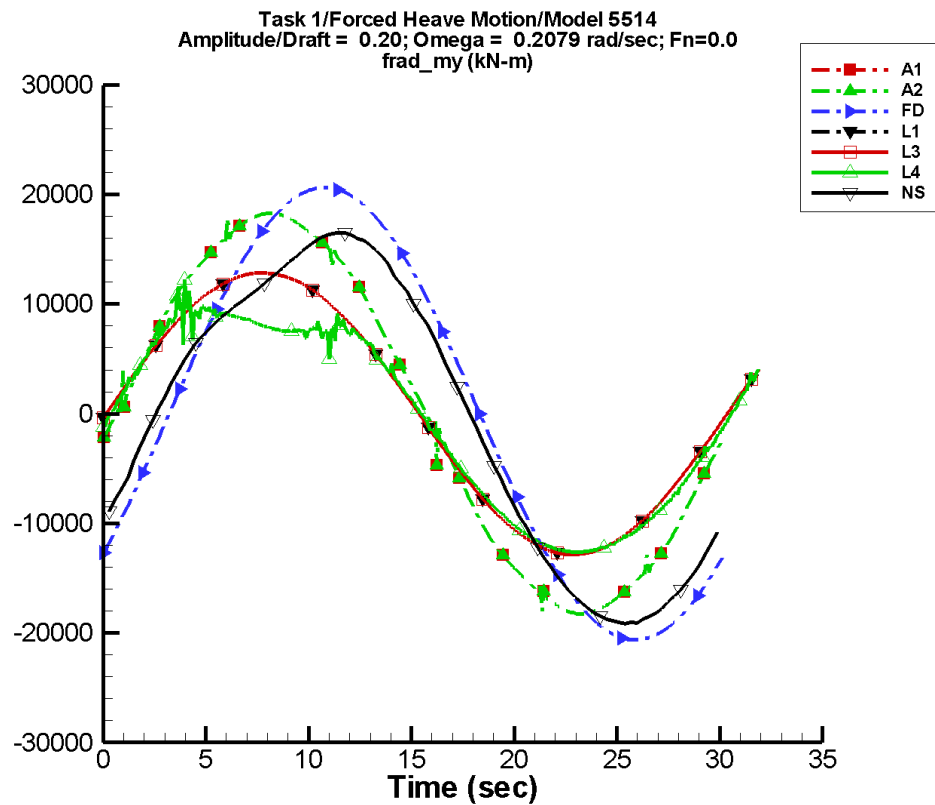
Table B–543. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-0.968	9.05E+03	-7	4.03	169
A2	-0.968	9.05E+03	-7	4.03	169
FD	-1.03E-03	1.03E+04	-38	3.61E-04	-100
L1	17.6	6.42E+03	-2	19.4	87
L3	17.6	6.42E+03	-2	19.4	87
L4	-87.4	6.28E+03	-2	198.	16
NF	—	—	—	—	—
NS	-129.	9.13E+03	-33	226.	63

Table B–544. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.13E+03	9.14E+03	-9.12E+03	9.13E+03
A2	-9.13E+03	9.14E+03	-9.12E+03	9.13E+03
FD	-1.03E+04	1.03E+04	-1.03E+04	1.03E+04
L1	-6.41E+03	6.43E+03	-6.41E+03	6.42E+03
L3	-6.41E+03	6.43E+03	-6.41E+03	6.42E+03
L4	-6.39E+03	6.07E+03	-6.38E+03	6.07E+03
NF	—	—	—	—
NS	-9.51E+03	8.92E+03	-9.41E+03	8.84E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-273. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

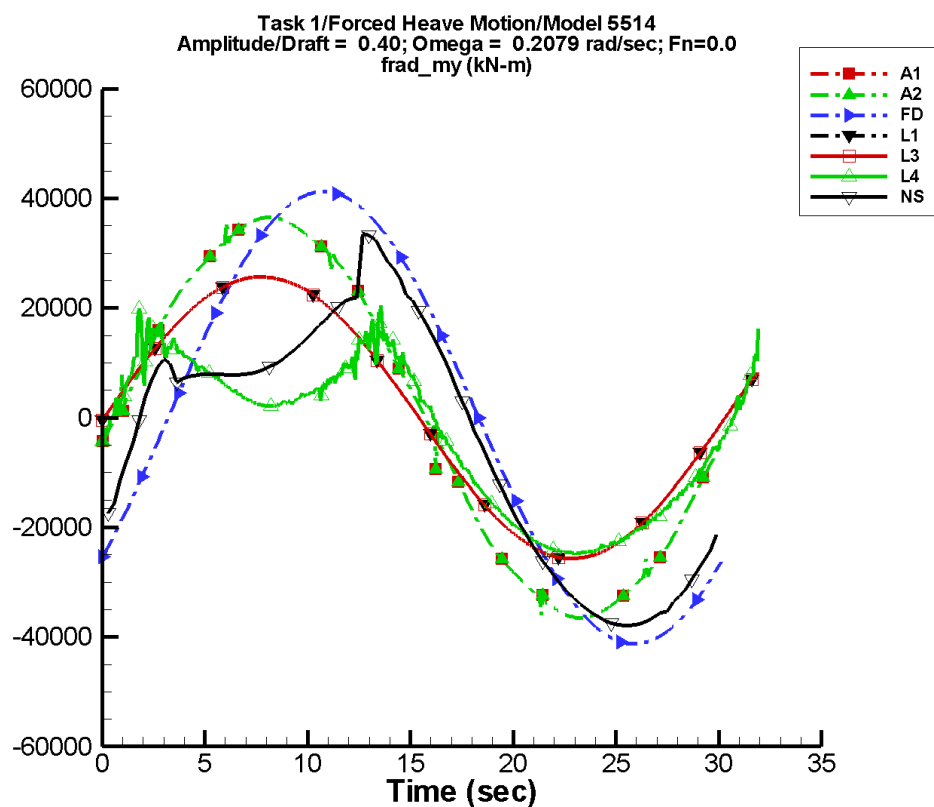
Table B–545. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.94	1.81E+04	-7	8.05	169
A2	-1.94	1.81E+04	-7	8.05	169
FD	-1.58E-03	2.06E+04	-38	7.23E-04	-100
L1	70.6	1.28E+04	-2	74.3	86
L3	70.6	1.28E+04	-2	74.3	86
L4	-730.	1.13E+04	-3	1.59E+03	57
NF	—	—	—	—	—
NS	-681.	1.75E+04	-34	1.32E+03	65

Table B–546. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.83E+04	1.83E+04	-1.82E+04	1.83E+04
A2	-1.83E+04	1.83E+04	-1.82E+04	1.83E+04
FD	-2.06E+04	2.06E+04	-2.06E+04	2.06E+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	-1.26E+04	1.22E+04	-1.26E+04	1.01E+04
NF	—	—	—	—
NS	-1.92E+04	1.68E+04	-1.89E+04	1.66E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-274. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

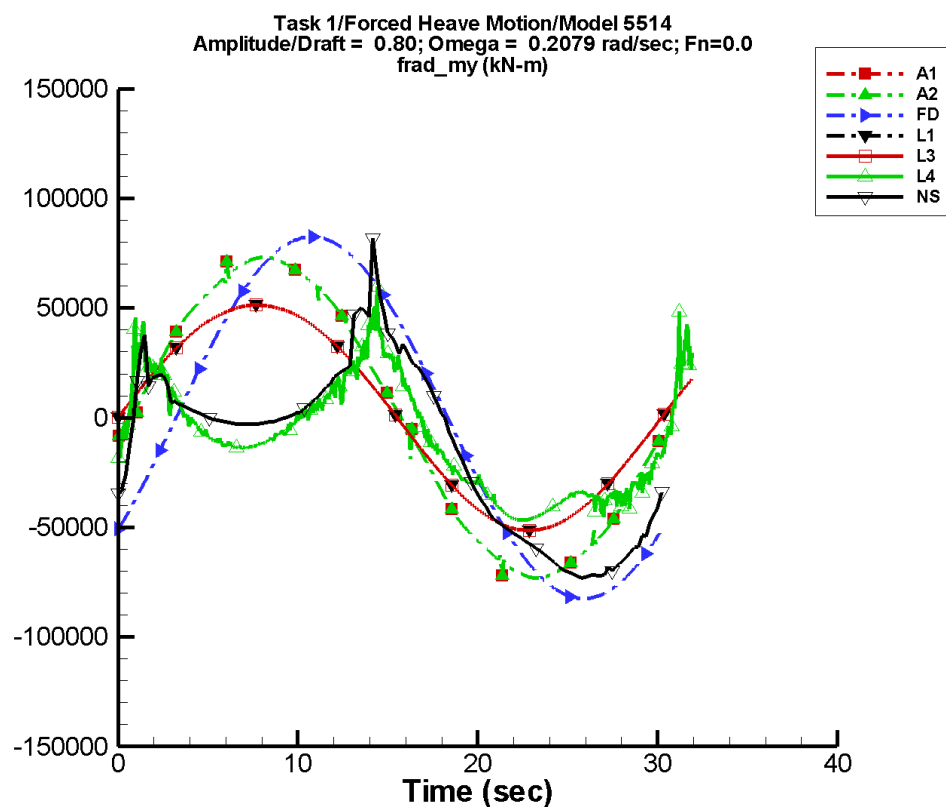
Table B–547. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-3.88	3.62E+04	-7	16.1	169
A2	-3.88	3.62E+04	-7	16.1	169
FD	-2.17E-03	4.13E+04	-38	3.44E-03	-108
L1	282.	2.57E+04	-2	290.	86
L3	282.	2.57E+04	-2	290.	86
L4	-3.71E+03	1.68E+04	-7	8.18E+03	70
NF	—	—	—	—	—
NS	-4.23E+03	2.92E+04	-37	8.29E+03	62

Table B–548. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.65E+04	3.66E+04	-3.65E+04	3.65E+04
A2	-3.65E+04	3.66E+04	-3.65E+04	3.65E+04
FD	-4.13E+04	4.13E+04	-4.12E+04	4.12E+04
L1	-2.57E+04	2.57E+04	-2.56E+04	2.57E+04
L3	-2.57E+04	2.57E+04	-2.56E+04	2.57E+04
L4	-2.50E+04	2.10E+04	-2.47E+04	1.60E+04
NF	—	—	—	—
NS	-3.79E+04	3.40E+04	-3.75E+04	2.93E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-275. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

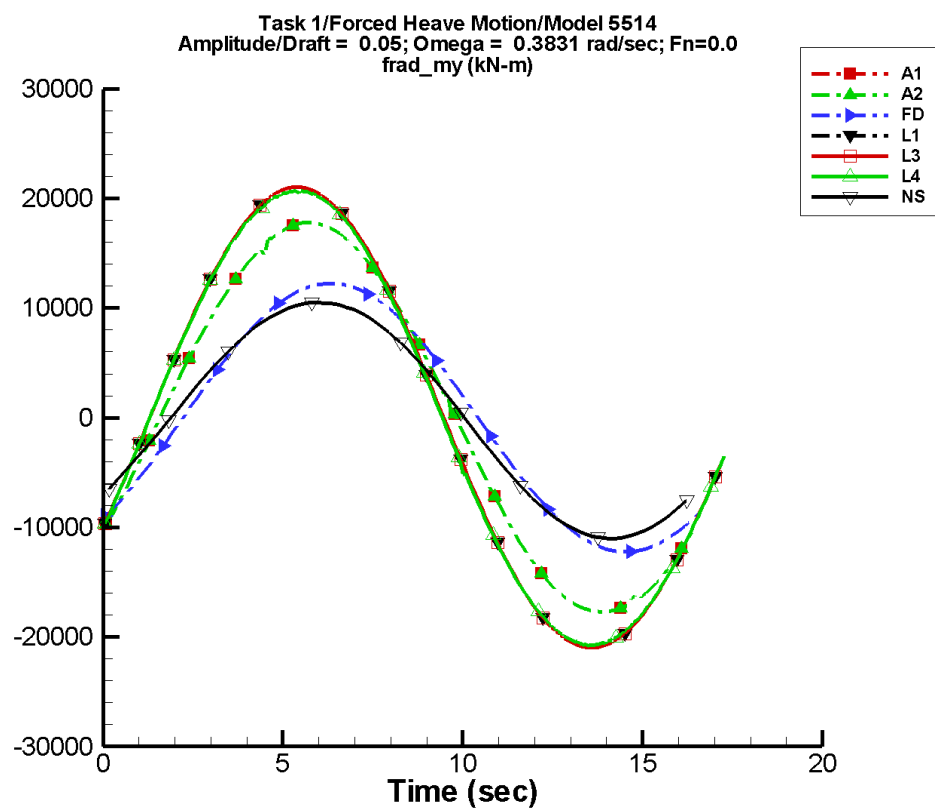
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-7.75	7.24E+04	-7	32.2	169
A2	-7.75	7.24E+04	-7	32.2	169
FD	-5.49E-03	8.25E+04	-38	5.07E-03	-92
L1	1.13E+03	5.14E+04	-2	1.15E+03	85
L3	1.13E+03	5.14E+04	-2	1.15E+03	85
L4	-1.00E+04	2.34E+04	-23	2.20E+04	80
NF	—	—	—	—	—
NS	-1.33E+04	4.40E+04	-40	2.49E+04	57

Table B–550. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.31E+04	7.31E+04	-7.29E+04	7.30E+04
A2	-7.31E+04	7.31E+04	-7.29E+04	7.30E+04
FD	-8.25E+04	8.25E+04	-8.24E+04	8.24E+04
L1	-5.13E+04	5.14E+04	-5.13E+04	5.14E+04
L3	-5.13E+04	5.14E+04	-5.13E+04	5.14E+04
L4	-4.67E+04	5.98E+04	-4.67E+04	4.62E+04
NF	—	—	—	—
NS	-7.31E+04	8.19E+04	-7.21E+04	5.50E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-276. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

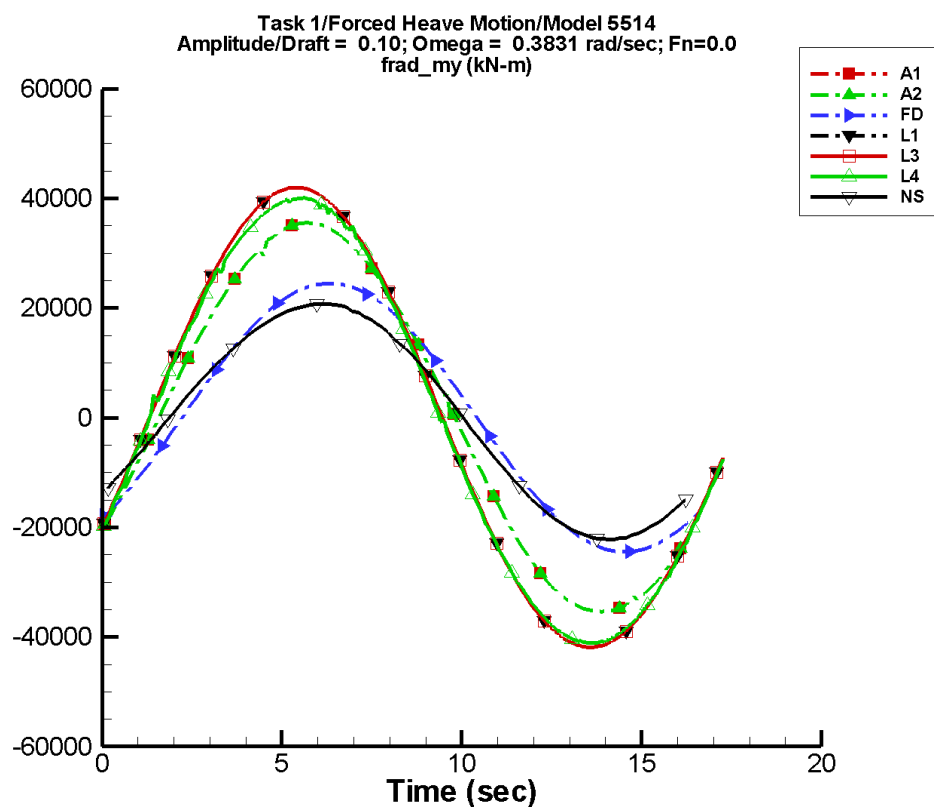
Table B–551. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-10.7	1.78E+04	-35	50.7	29
A2	-10.7	1.78E+04	-35	50.7	29
FD	-1.38E-03	1.22E+04	-49	3.19E-03	-46
L1	-46.7	2.10E+04	-28	74.1	-179
L3	-46.7	2.10E+04	-28	74.1	-179
L4	-157.	2.08E+04	-28	135.	-161
NF	—	—	—	—	—
NS	-117.	1.07E+04	-41	158.	63

Table B–552. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.77E+04	1.78E+04	-1.77E+04	1.77E+04
A2	-1.77E+04	1.78E+04	-1.77E+04	1.77E+04
FD	-1.22E+04	1.22E+04	-1.22E+04	1.22E+04
L1	-2.10E+04	2.10E+04	-2.09E+04	2.10E+04
L3	-2.10E+04	2.10E+04	-2.09E+04	2.10E+04
L4	-2.08E+04	2.07E+04	-2.07E+04	2.06E+04
NF	—	—	—	—
NS	-1.10E+04	1.06E+04	-1.09E+04	1.04E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-277. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

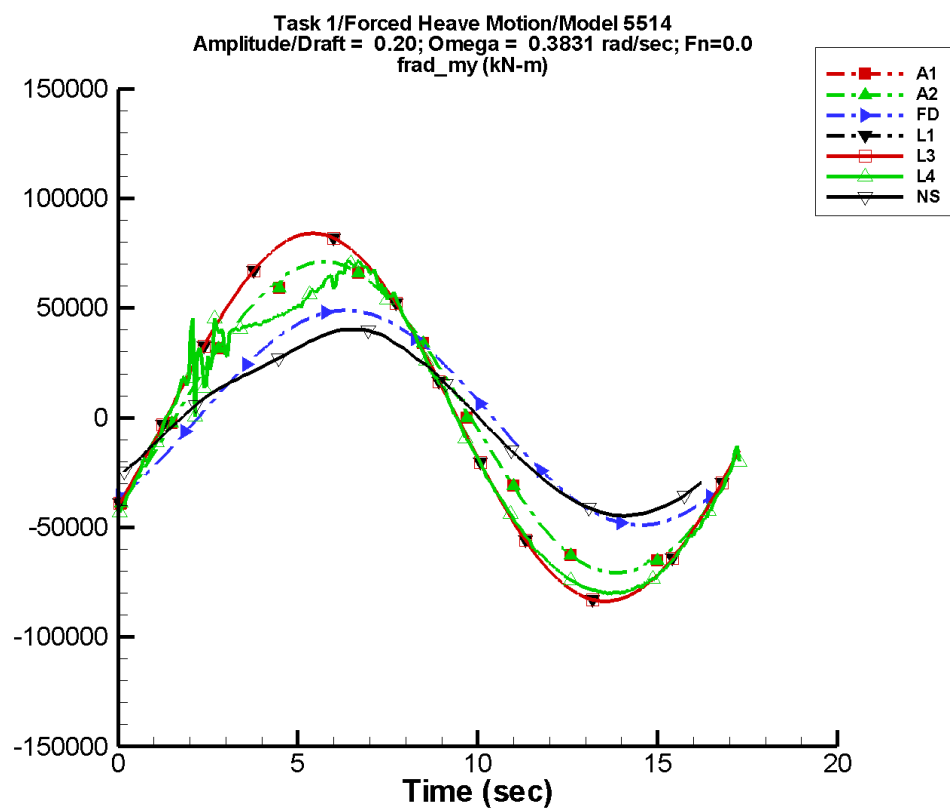
Table B–553. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-21.3	3.55E+04	-35	101.	29
A2	-21.3	3.55E+04	-35	101.	29
FD	-2.22E-03	2.45E+04	-49	5.52E-03	-44
L1	-196.	4.19E+04	-28	290.	179
L3	-196.	4.19E+04	-28	290.	179
L4	-738.	4.08E+04	-28	295.	162
NF	—	—	—	—	—
NS	-351.	2.14E+04	-41	564.	65

Table B–554. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.54E+04	3.56E+04	-3.53E+04	3.54E+04
A2	-3.54E+04	3.56E+04	-3.53E+04	3.54E+04
FD	-2.45E+04	2.45E+04	-2.45E+04	2.44E+04
L1	-4.19E+04	4.20E+04	-4.18E+04	4.20E+04
L3	-4.19E+04	4.20E+04	-4.18E+04	4.20E+04
L4	-4.11E+04	4.01E+04	-4.11E+04	4.00E+04
NF	—	—	—	—
NS	-2.22E+04	2.09E+04	-2.20E+04	2.06E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-278. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

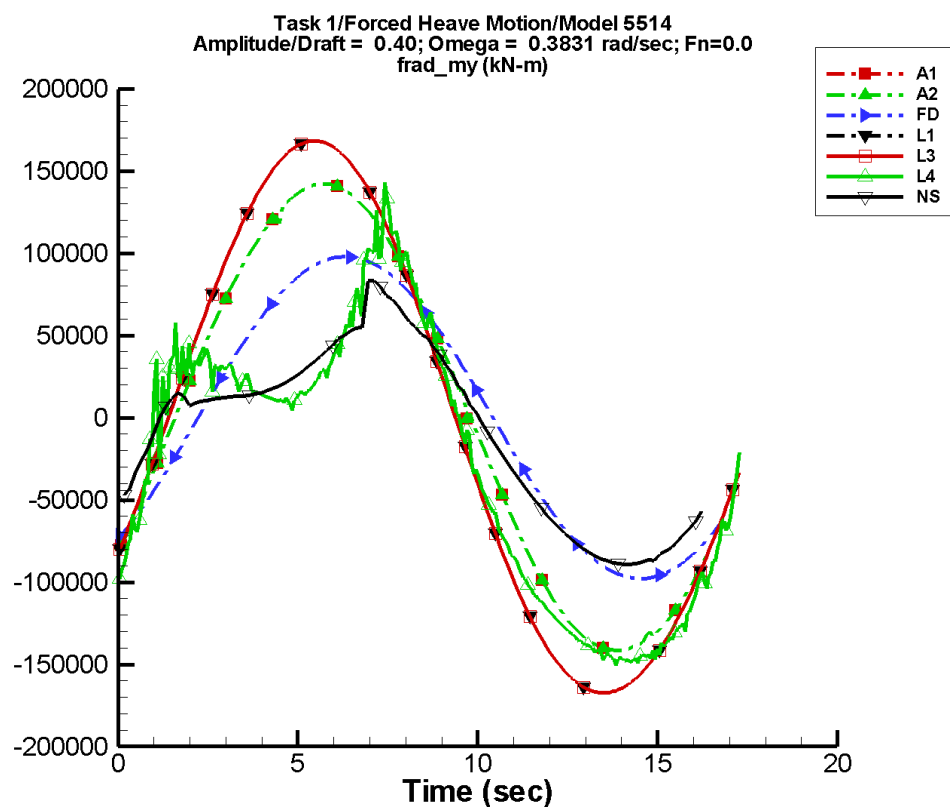
Table B–555. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-42.7	7.09E+04	-35	203.	29
A2	-42.7	7.09E+04	-35	203.	29
FD	-4.77E-03	4.90E+04	-49	1.02E-02	-48
L1	-804.	8.39E+04	-28	1.15E+03	178
L3	-804.	8.39E+04	-28	1.15E+03	178
L4	-5.80E+03	7.32E+04	-31	6.01E+03	69
NF	—	—	—	—	—
NS	-1.51E+03	4.12E+04	-42	3.09E+03	65

Table B–556. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.07E+04	7.11E+04	-7.05E+04	7.08E+04
A2	-7.07E+04	7.11E+04	-7.05E+04	7.08E+04
FD	-4.90E+04	4.90E+04	-4.89E+04	4.88E+04
L1	-8.37E+04	8.41E+04	-8.36E+04	8.39E+04
L3	-8.37E+04	8.41E+04	-8.36E+04	8.39E+04
L4	-8.05E+04	7.18E+04	-7.99E+04	7.02E+04
NF	—	—	—	—
NS	-4.50E+04	4.05E+04	-4.42E+04	3.99E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-279. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

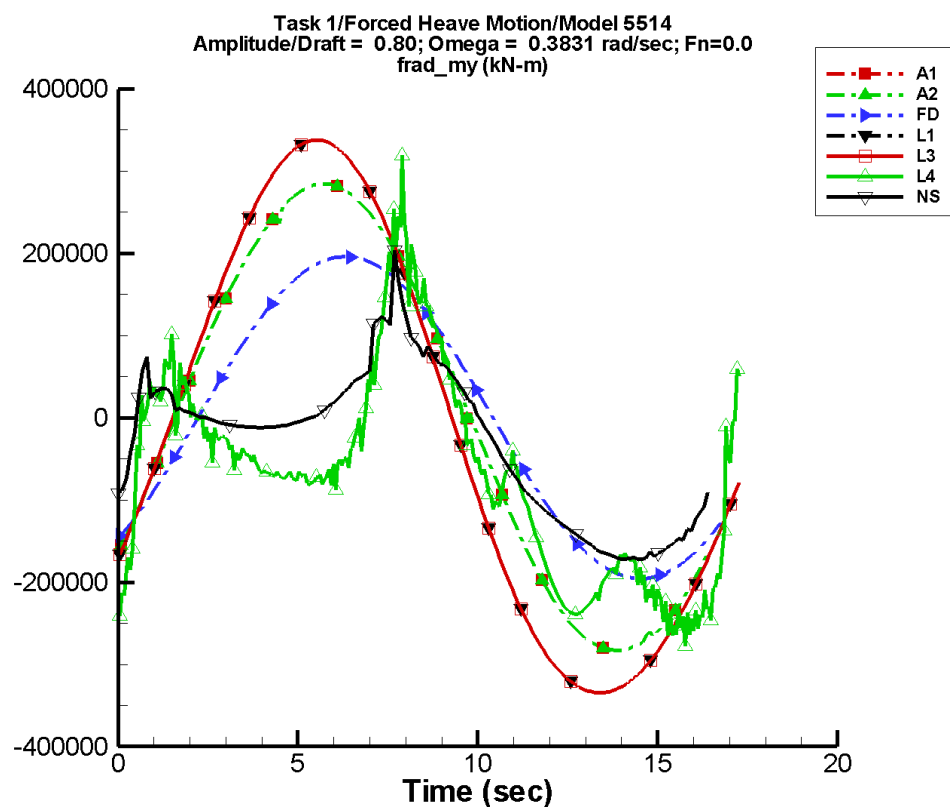
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-85.4	1.42E+05	-35	405.	29
A2	-85.4	1.42E+05	-35	405.	29
FD	-1.12E-02	9.79E+04	-49	2.15E-02	-45
L1	-3.26E+03	1.68E+05	-28	4.58E+03	177
L3	-3.26E+03	1.68E+05	-28	4.58E+03	177
L4	-2.75E+04	1.07E+05	-36	3.59E+04	51
NF	—	—	—	—	—
NS	-9.43E+03	6.91E+04	-45	1.93E+04	58

Table B–558. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.41E+05	1.42E+05	-1.41E+05	1.42E+05
A2	-1.41E+05	1.42E+05	-1.41E+05	1.42E+05
FD	-9.79E+04	9.79E+04	-9.79E+04	9.76E+04
L1	-1.67E+05	1.68E+05	-1.67E+05	1.68E+05
L3	-1.67E+05	1.68E+05	-1.67E+05	1.68E+05
L4	-1.50E+05	1.43E+05	-1.48E+05	1.20E+05
NF	—	—	—	—
NS	-8.93E+04	8.33E+04	-8.83E+04	7.16E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-280. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

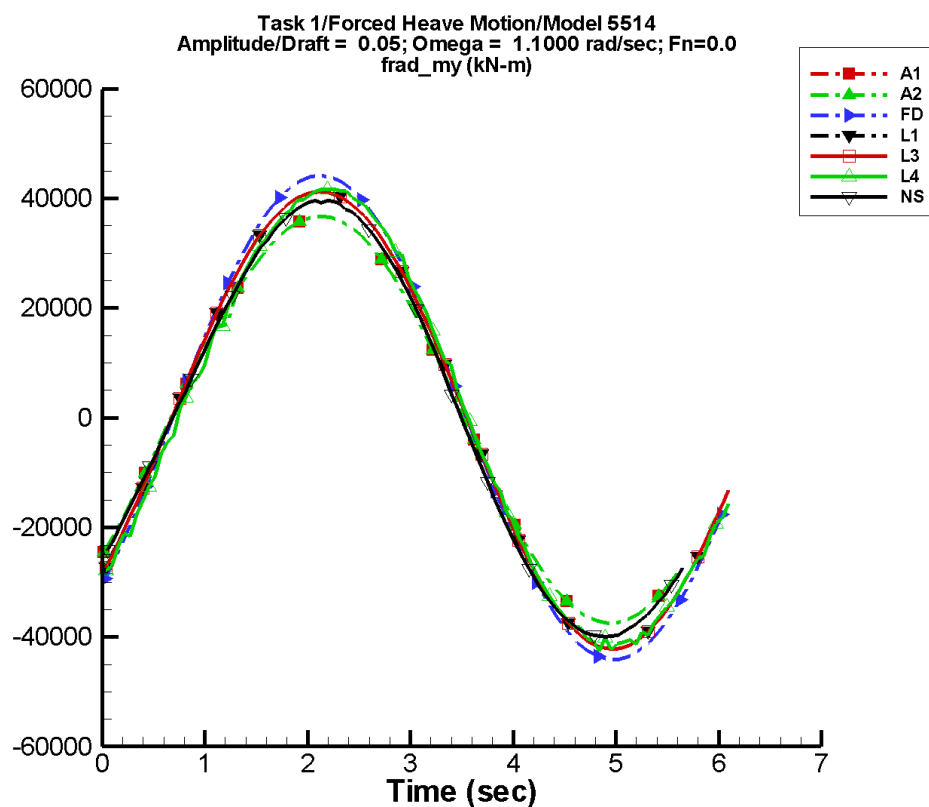
Table B–559. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.3831 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-171.	2.84E+05	-35	811.	29
A2	-171.	2.84E+05	-35	811.	29
FD	-2.23E-02	1.96E+05	-49	3.79E-02	-57
L1	-1.31E+04	3.35E+05	-28	1.83E+04	177
L3	-1.31E+04	3.35E+05	-28	1.83E+04	177
L4	-6.68E+04	1.25E+05	-50	9.09E+04	44
NF	—	—	—	—	—
NS	-3.09E+04	1.05E+05	-46	5.98E+04	52

Table B–560. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.83E+05	2.84E+05	-2.82E+05	2.83E+05
A2	-2.83E+05	2.84E+05	-2.82E+05	2.83E+05
FD	-1.96E+05	1.96E+05	-1.96E+05	1.95E+05
L1	-3.34E+05	3.38E+05	-3.34E+05	3.37E+05
L3	-3.34E+05	3.38E+05	-3.34E+05	3.37E+05
L4	-2.78E+05	3.19E+05	-2.54E+05	2.35E+05
NF	—	—	—	—
NS	-1.73E+05	2.03E+05	-1.72E+05	1.36E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-281. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

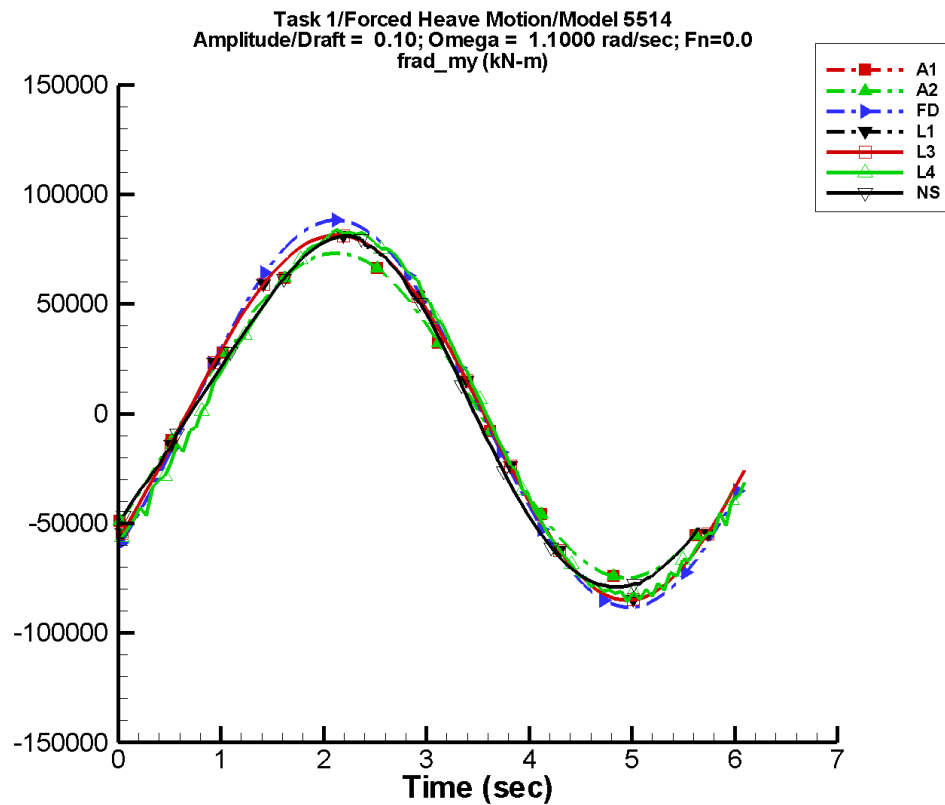
Table B–561. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-364.	3.69E+04	-43	616.	80
A2	-364.	3.69E+04	-43	616.	80
FD	-2.43E-03	4.42E+04	-44	1.21E-02	-3
L1	-43.3	4.17E+04	-43	443.	23
L3	-43.3	4.17E+04	-43	443.	23
L4	-287.	4.16E+04	-46	1.07E+03	113
NF	—	—	—	—	—
NS	-584.	3.96E+04	-42	1.49E+03	113

Table B–562. Minimum and maximum of of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.75E+04	3.67E+04	-3.63E+04	3.56E+04
A2	-3.75E+04	3.67E+04	-3.63E+04	3.56E+04
FD	-4.41E+04	4.42E+04	-4.28E+04	4.29E+04
L1	-4.22E+04	4.13E+04	-4.17E+04	4.09E+04
L3	-4.22E+04	4.13E+04	-4.17E+04	4.09E+04
L4	-4.26E+04	4.19E+04	-4.11E+04	4.14E+04
NF	—	—	—	—
NS	-3.99E+04	3.97E+04	-3.95E+04	3.93E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-282. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

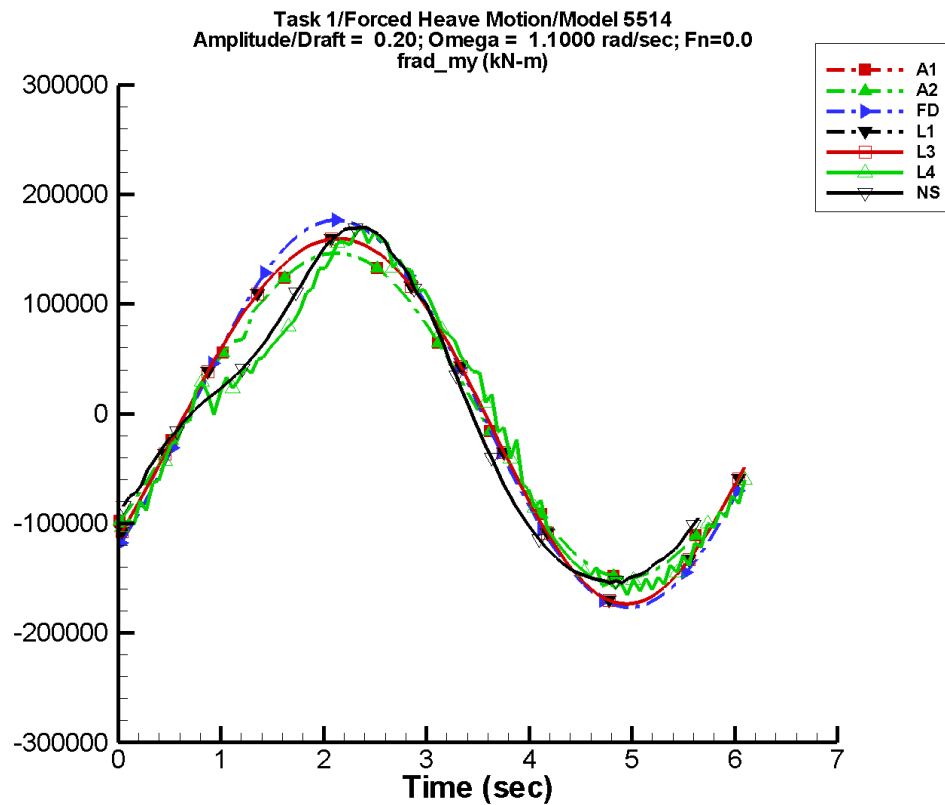
Table B–563. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-727.	7.38E+04	-43	1.23E+03	80
A2	-727.	7.38E+04	-43	1.23E+03	80
FD	-4.79E-03	8.84E+04	-44	2.12E-02	-9
L1	-178.	8.33E+04	-43	1.67E+03	23
L3	-178.	8.33E+04	-43	1.67E+03	23
L4	-1.56E+03	8.25E+04	-47	3.92E+03	106
NF	—	—	—	—	—
NS	-1.66E+03	7.87E+04	-42	5.99E+03	117

Table B–564. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.49E+04	7.33E+04	-7.26E+04	7.11E+04
A2	-7.49E+04	7.33E+04	-7.26E+04	7.11E+04
FD	-8.82E+04	8.84E+04	-8.55E+04	8.58E+04
L1	-8.51E+04	8.17E+04	-8.41E+04	8.09E+04
L3	-8.51E+04	8.17E+04	-8.41E+04	8.09E+04
L4	-8.59E+04	8.42E+04	-8.24E+04	8.17E+04
NF	—	—	—	—
NS	-7.91E+04	8.16E+04	-7.84E+04	8.01E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-283. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

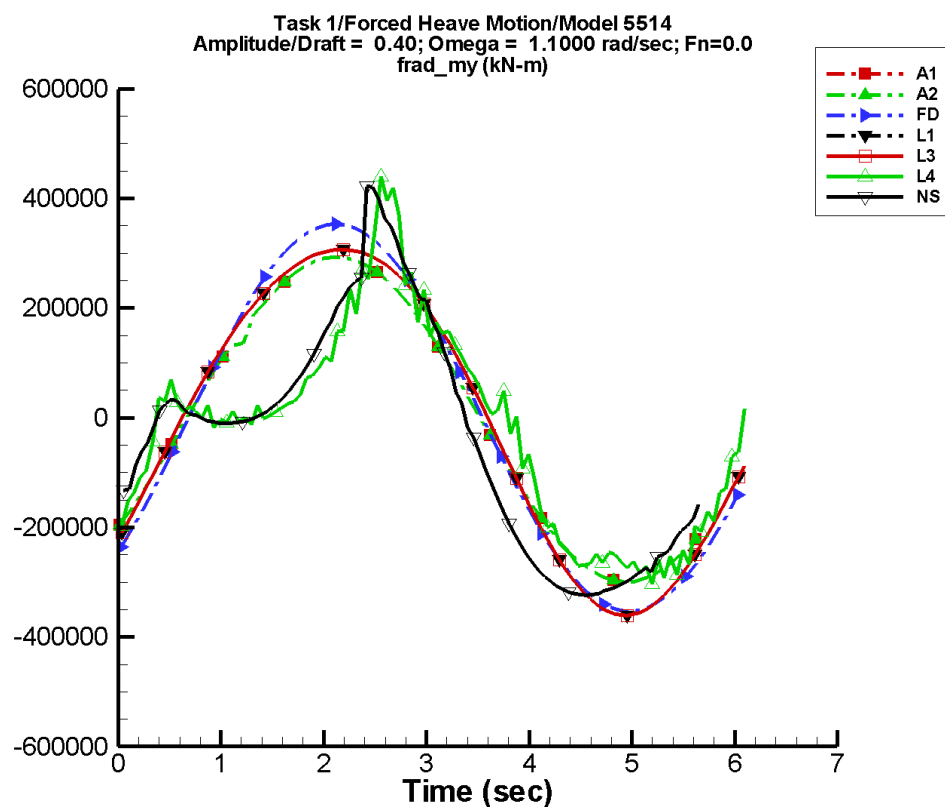
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.45E+03	1.48E+05	-43	2.46E+03	80
A2	-1.45E+03	1.48E+05	-43	2.46E+03	80
FD	-9.84E-03	1.77E+05	-44	4.84E-02	3
L1	-725.	1.67E+05	-43	6.51E+03	24
L3	-725.	1.67E+05	-43	6.51E+03	24
L4	-5.28E+03	1.51E+05	-52	2.11E+04	75
NF	—	—	—	—	—
NS	-5.91E+03	1.51E+05	-43	2.75E+04	112

Table B–566. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.50E+05	1.47E+05	-1.45E+05	1.42E+05
A2	-1.50E+05	1.47E+05	-1.45E+05	1.42E+05
FD	-1.76E+05	1.77E+05	-1.71E+05	1.72E+05
L1	-1.74E+05	1.60E+05	-1.71E+05	1.59E+05
L3	-1.74E+05	1.60E+05	-1.71E+05	1.59E+05
L4	-1.66E+05	1.74E+05	-1.57E+05	1.60E+05
NF	—	—	—	—
NS	-1.55E+05	1.73E+05	-1.52E+05	1.69E+05



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-284. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

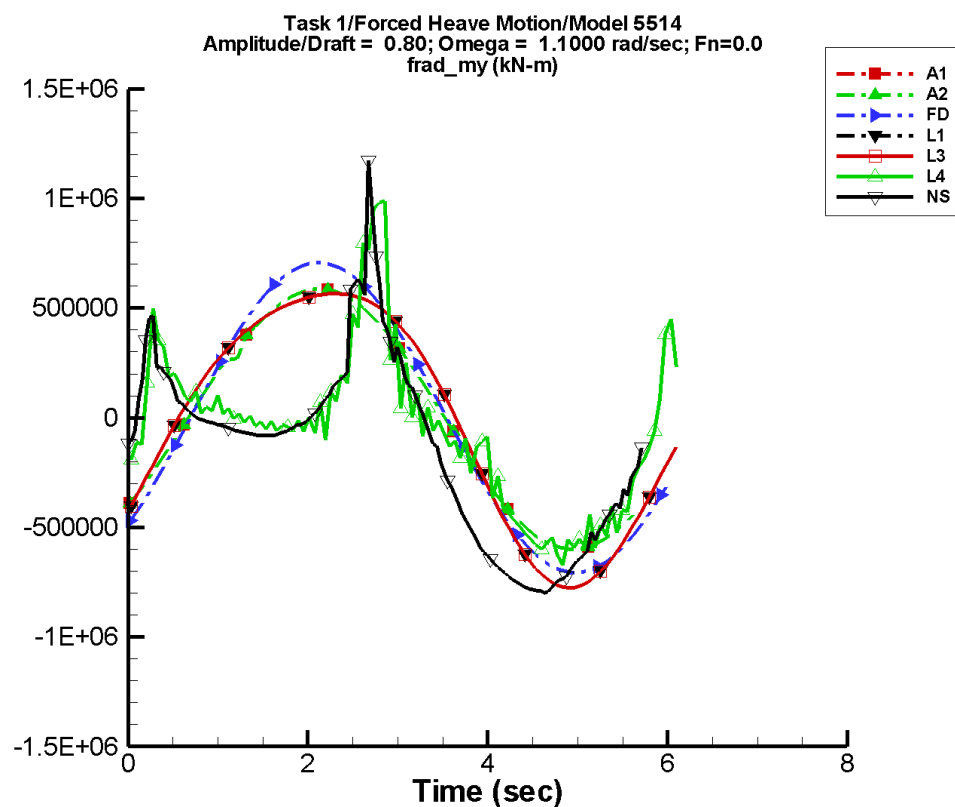
Table B–567. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 1.1000 rad/s, Fn = 0.0 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-2.91E+03	2.95E+05	-43	4.92E+03	80
A2	-2.91E+03	2.95E+05	-43	4.92E+03	80
FD	-1.38E-02	3.53E+05	-44	8.40E-02	-1
L1	-2.92E+03	3.33E+05	-43	2.56E+04	24
L3	-2.92E+03	3.33E+05	-43	2.56E+04	24
L4	-1.38E+04	2.41E+05	-58	1.02E+05	63
NF	—	—	—	—	—
NS	-3.99E+04	2.60E+05	-43	1.14E+05	91

Table B–568. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.99E+05	2.93E+05	-2.90E+05	2.84E+05
A2	-2.99E+05	2.93E+05	-2.90E+05	2.84E+05
FD	-3.53E+05	3.53E+05	-3.42E+05	3.43E+05
L1	-3.61E+05	3.07E+05	-3.56E+05	3.05E+05
L3	-3.61E+05	3.07E+05	-3.56E+05	3.05E+05
L4	-3.03E+05	4.40E+05	-2.76E+05	3.38E+05
NF	—	—	—	—
NS	-3.28E+05	4.22E+05	-3.24E+05	3.49E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-285. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

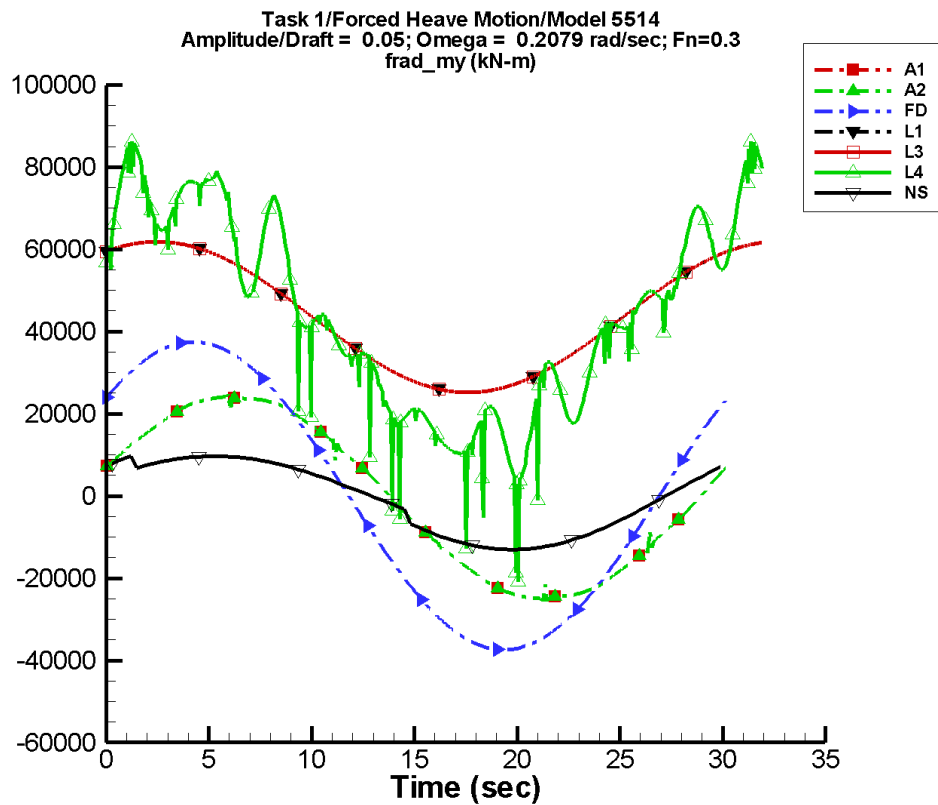
Table B–569. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 1.1000 rad/s,  $F_n = 0.0$  in the case of prescribed heave motion of Model 5514 scaled to  $L = 142$  m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-5.82E+03	5.90E+05	-43	9.84E+03	80
A2	-5.82E+03	5.90E+05	-43	9.84E+03	80
FD	-3.86E-02	7.07E+05	-44	0.168	-5
L1	-1.17E+04	6.66E+05	-43	1.02E+05	24
L3	-1.17E+04	6.66E+05	-43	1.02E+05	24
L4	-4.98E+04	3.69E+05	-46	3.19E+05	57
NF	—	—	—	—	—
NS	-1.57E+05	4.34E+05	-28	3.34E+05	76

Table B–570. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.99E+05	5.87E+05	-5.81E+05	5.69E+05
A2	-5.99E+05	5.87E+05	-5.81E+05	5.69E+05
FD	-7.06E+05	7.07E+05	-6.84E+05	6.86E+05
L1	-7.76E+05	5.68E+05	-7.64E+05	5.65E+05
L3	-7.76E+05	5.68E+05	-7.64E+05	5.65E+05
L4	-6.74E+05	1.22E+06	-5.91E+05	8.22E+05
NF	—	—	—	—
NS	-8.25E+05	1.17E+06	-8.13E+05	7.23E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-286. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

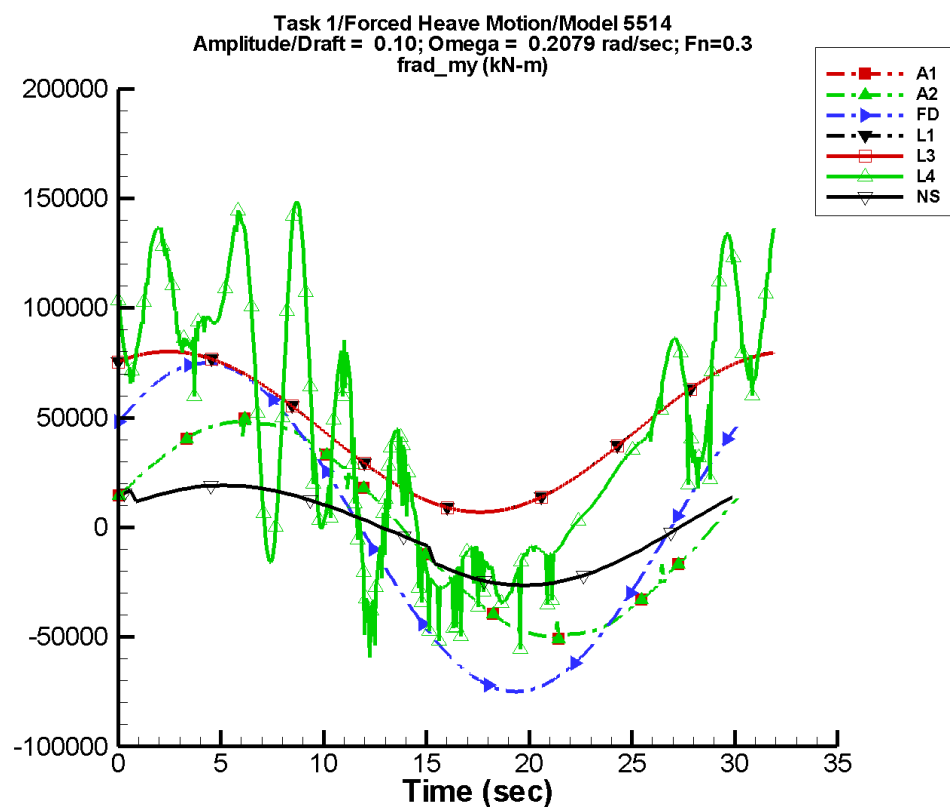
Table B–571. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-101.	2.49E+04	16	221.	32
A2	-101.	2.49E+04	16	221.	32
FD	9.45E-05	3.75E+04	39	1.58E-03	10
L1	4.35E+04	1.83E+04	60	24.6	117
L3	4.35E+04	1.83E+04	60	24.2	116
L4	4.29E+04	3.12E+04	56	248.	-33
NF	—	—	—	—	—
NS	-664.	1.18E+04	32	1.33E+03	149

Table B–572. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.56E+04	2.64E+04	-2.48E+04	2.56E+04
A2	-2.56E+04	2.64E+04	-2.48E+04	2.56E+04
FD	-3.75E+04	3.75E+04	-3.74E+04	3.74E+04
L1	2.52E+04	6.18E+04	2.52E+04	6.18E+04
L3	2.52E+04	6.18E+04	2.52E+04	6.18E+04
L4	-2.07E+04	8.63E+04	-1.82E+03	8.35E+04
NF	—	—	—	—
NS	-1.35E+04	1.02E+04	-1.34E+04	9.84E+03

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-287. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

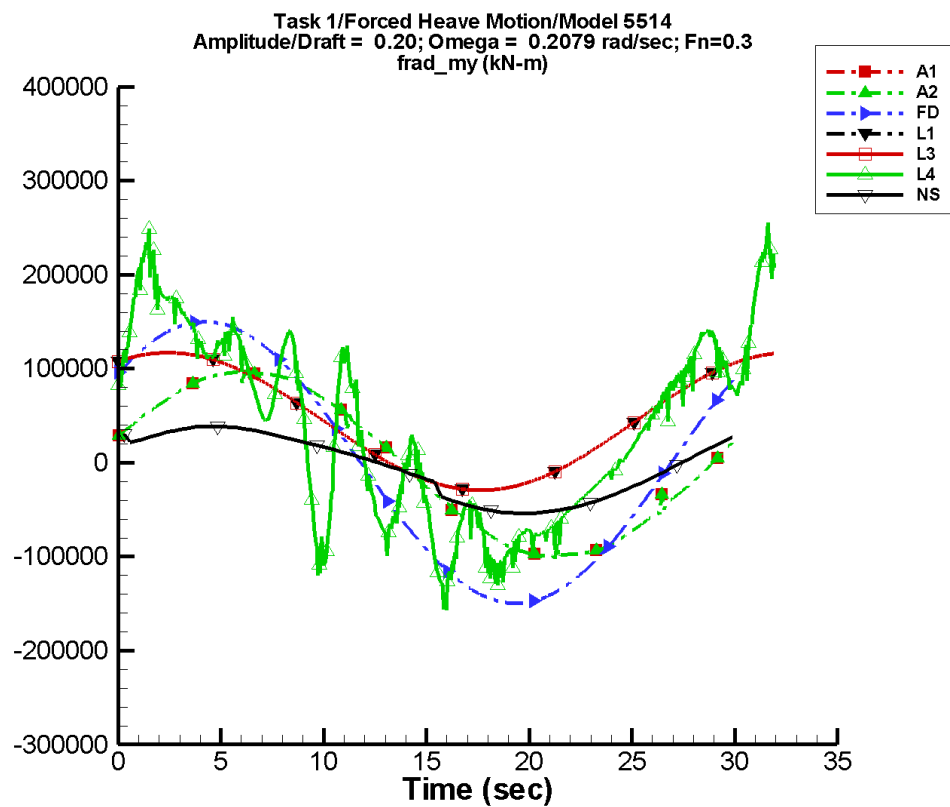
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-202.	4.97E+04	16	441.	32
A2	-202.	4.97E+04	16	441.	32
FD	-5.97E-04	7.49E+04	39	1.30E-03	-69
L1	4.36E+04	3.66E+04	60	96.9	117
L3	4.36E+04	3.66E+04	60	96.6	116
L4	3.98E+04	6.46E+04	57	1.04E+03	-70
NF	—	—	—	—	—
NS	-1.65E+03	2.33E+04	31	2.78E+03	147

Table B–574. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.11E+04	5.27E+04	-4.94E+04	5.12E+04
A2	-5.11E+04	5.27E+04	-4.94E+04	5.12E+04
FD	-7.49E+04	7.49E+04	-7.48E+04	7.48E+04
L1	6.98E+03	8.02E+04	7.00E+03	8.02E+04
L3	6.98E+03	8.02E+04	7.00E+03	8.02E+04
L4	-6.70E+04	1.49E+05	-4.97E+04	1.44E+05
NF	—	—	—	—
NS	-2.74E+04	1.96E+04	-2.72E+04	1.95E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-288. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

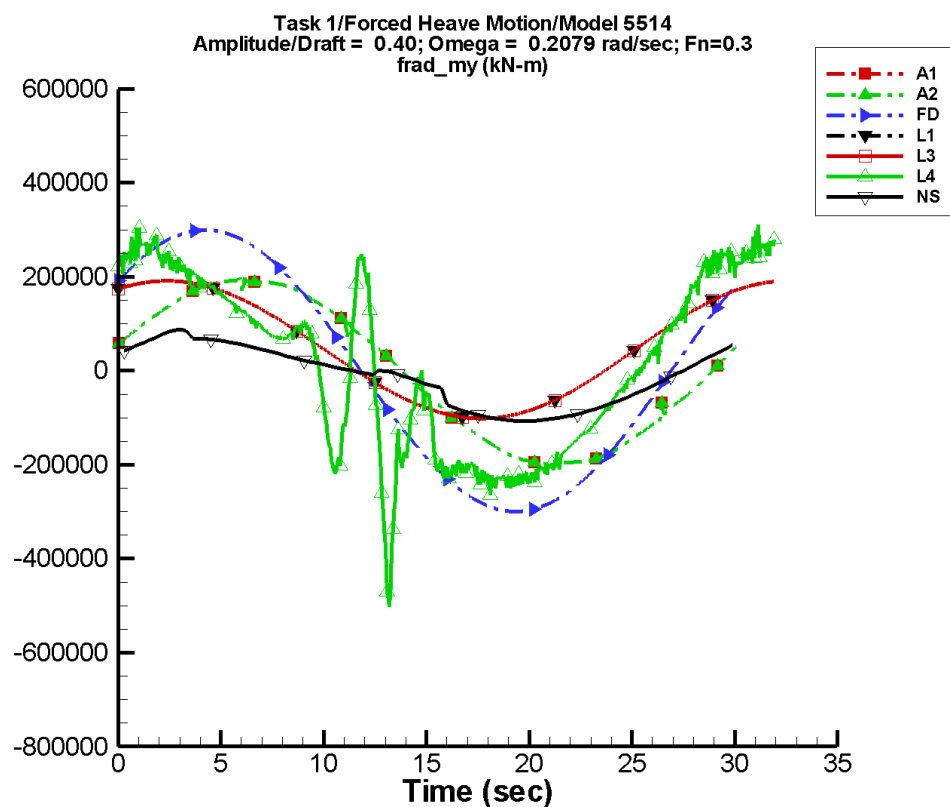
Table B–575. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-405.	9.93E+04	16	882.	32
A2	-405.	9.93E+04	16	882.	32
FD	1.72E-03	1.50E+05	39	2.88E-03	-40
L1	4.38E+04	7.32E+04	60	387.	116
L3	4.38E+04	7.32E+04	60	387.	116
L4	3.19E+04	1.22E+05	60	1.73E+04	92
NF	—	—	—	—	—
NS	-4.56E+03	4.63E+04	31	5.26E+03	133

Table B–576. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.02E+05	1.05E+05	-9.89E+04	1.02E+05
A2	-1.02E+05	1.05E+05	-9.89E+04	1.02E+05
FD	-1.50E+05	1.50E+05	-1.50E+05	1.50E+05
L1	-2.93E+04	1.17E+05	-2.93E+04	1.17E+05
L3	-2.93E+04	1.17E+05	-2.93E+04	1.17E+05
L4	-1.56E+05	2.55E+05	-1.36E+05	2.28E+05
NF	—	—	—	—
NS	-5.61E+04	3.99E+04	-5.56E+04	3.94E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-289. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

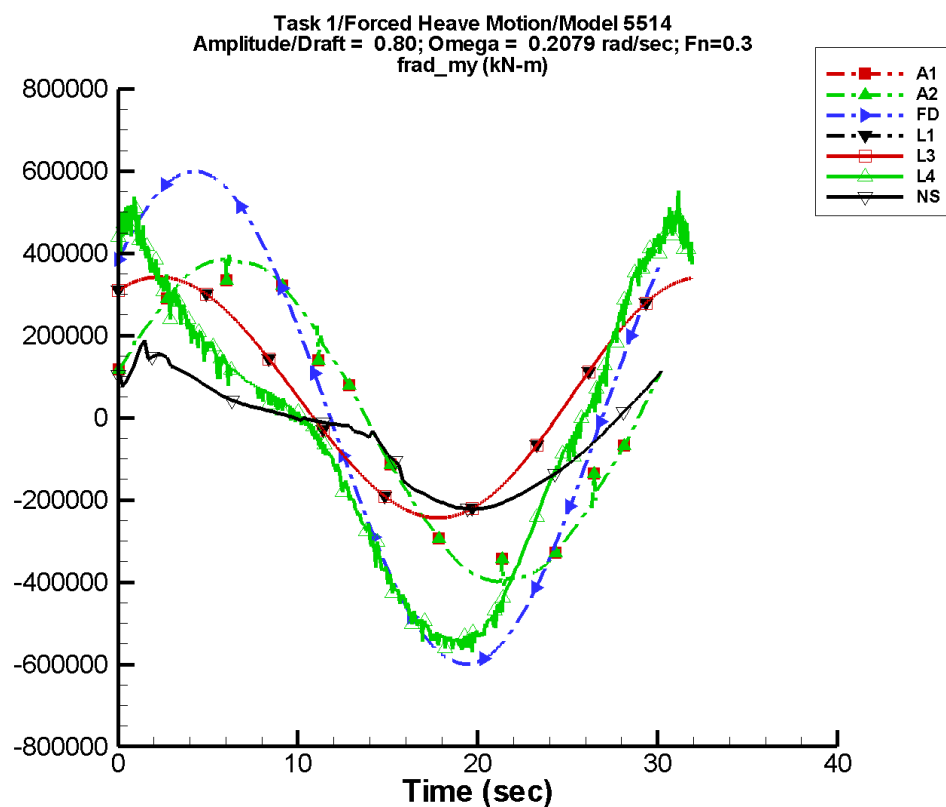
Table B–577. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-810.	1.99E+05	16	1.76E+03	32
A2	-810.	1.99E+05	16	1.76E+03	32
FD	-1.59E-02	3.00E+05	39	1.13E-02	-42
L1	4.48E+04	1.46E+05	60	1.55E+03	116
L3	4.48E+04	1.46E+05	60	1.55E+03	116
L4	7.11E+03	2.27E+05	60	4.62E+04	117
NF	—	—	—	—	—
NS	-1.27E+04	8.66E+04	34	1.68E+04	99

Table B–578. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.04E+05	2.11E+05	-1.98E+05	2.05E+05
A2	-2.04E+05	2.11E+05	-1.98E+05	2.05E+05
FD	-3.00E+05	3.00E+05	-2.99E+05	2.99E+05
L1	-1.01E+05	1.91E+05	-1.01E+05	1.91E+05
L3	-1.01E+05	1.91E+05	-1.01E+05	1.91E+05
L4	-5.02E+05	3.10E+05	-4.17E+05	2.72E+05
NF	—	—	—	—
NS	-1.13E+05	9.13E+04	-1.12E+05	8.11E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-290. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

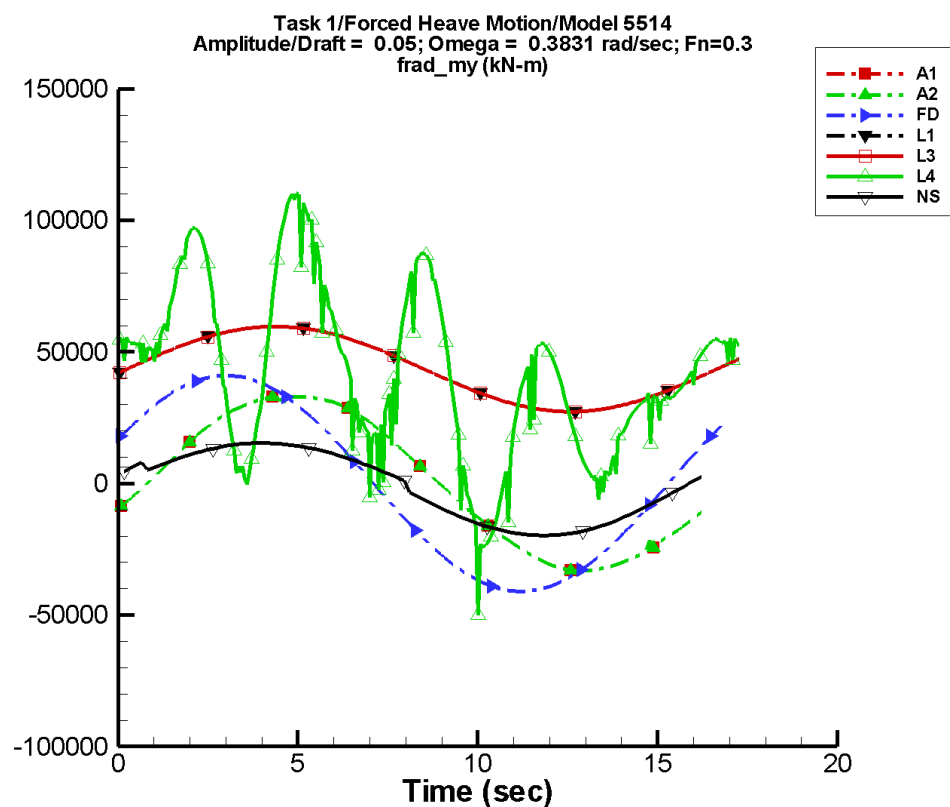
Table B–579. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.80, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.62E+03	3.97E+05	16	3.53E+03	32
A2	-1.62E+03	3.97E+05	16	3.53E+03	32
FD	-8.74E-03	5.99E+05	39	1.03E-02	69
L1	4.88E+04	2.93E+05	60	6.19E+03	116
L3	4.88E+04	2.93E+05	60	6.19E+03	116
L4	-5.85E+04	4.29E+05	60	1.15E+05	137
NF	—	—	—	—	—
NS	-4.38E+04	1.60E+05	38	4.30E+04	101

Table B–580. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.09E+05	4.21E+05	-3.95E+05	4.10E+05
A2	-4.09E+05	4.21E+05	-3.95E+05	4.10E+05
FD	-5.99E+05	5.99E+05	-5.99E+05	5.99E+05
L1	-2.44E+05	3.42E+05	-2.44E+05	3.42E+05
L3	-2.44E+05	3.42E+05	-2.44E+05	3.42E+05
L4	-5.69E+05	5.53E+05	-5.50E+05	4.87E+05
NF	—	—	—	—
NS	-2.35E+05	1.97E+05	-2.33E+05	1.61E+05

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-291. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

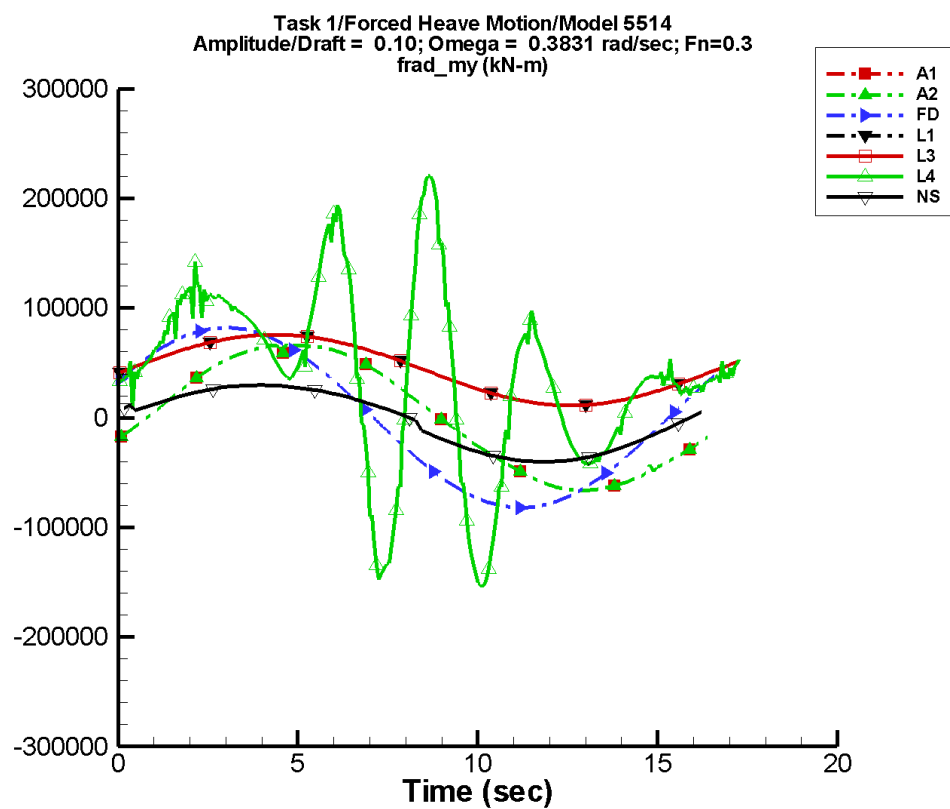
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	457.	3.32E+04	-16	121.	155
A2	457.	3.32E+04	-16	121.	155
FD	-5.59E-03	4.10E+04	24	3.81E-03	-52
L1	4.36E+04	1.62E+04	-6	77.7	66
L3	4.36E+04	1.62E+04	-6	78.0	66
L4	4.25E+04	2.58E+04	10	3.16E+03	72
NF	—	—	—	—	—
NS	-1.01E+03	1.76E+04	8	1.69E+03	140

Table B–582. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.32E+04	3.43E+04	-3.31E+04	3.28E+04
A2	-3.32E+04	3.43E+04	-3.31E+04	3.28E+04
FD	-4.10E+04	4.10E+04	-4.09E+04	4.09E+04
L1	2.73E+04	5.97E+04	2.73E+04	5.96E+04
L3	2.73E+04	5.97E+04	2.73E+04	5.96E+04
L4	-5.00E+04	1.10E+05	-2.43E+04	1.06E+05
NF	—	—	—	—
NS	-1.98E+04	1.57E+04	-1.96E+04	1.55E+04



# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-292. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

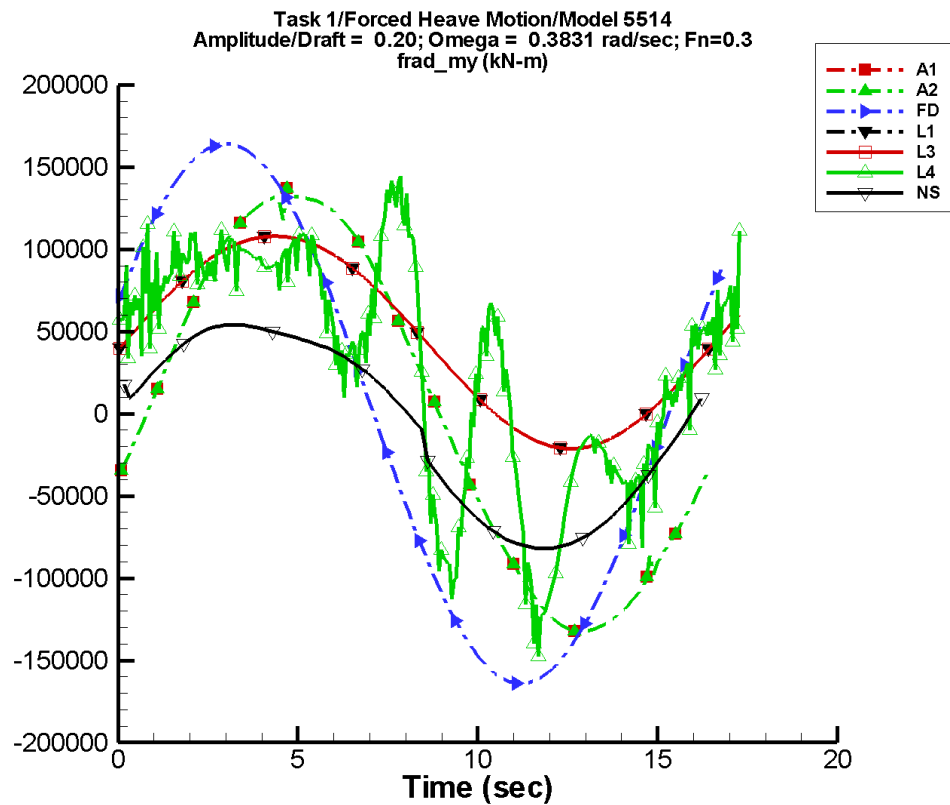
Table B–583. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	912.	6.62E+04	-16	242.	155
A2	912.	6.62E+04	-16	242.	155
FD	-1.08E-02	8.21E+04	24	6.19E-03	-54
L1	4.38E+04	3.23E+04	-6	310.	66
L3	4.37E+04	3.23E+04	-6	310.	66
L4	3.96E+04	5.28E+04	12	9.77E+03	-35
NF	—	—	—	—	—
NS	-2.56E+03	3.51E+04	7	3.58E+03	135

Table B–584. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.63E+04	6.85E+04	-6.60E+04	6.55E+04
A2	-6.63E+04	6.85E+04	-6.60E+04	6.55E+04
FD	-8.21E+04	8.21E+04	-8.18E+04	8.18E+04
L1	1.11E+04	7.58E+04	1.12E+04	7.57E+04
L3	1.11E+04	7.58E+04	1.12E+04	7.57E+04
L4	-1.54E+05	2.21E+05	-1.46E+05	2.09E+05
NF	—	—	—	—
NS	-4.02E+04	3.04E+04	-3.98E+04	3.01E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-293. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

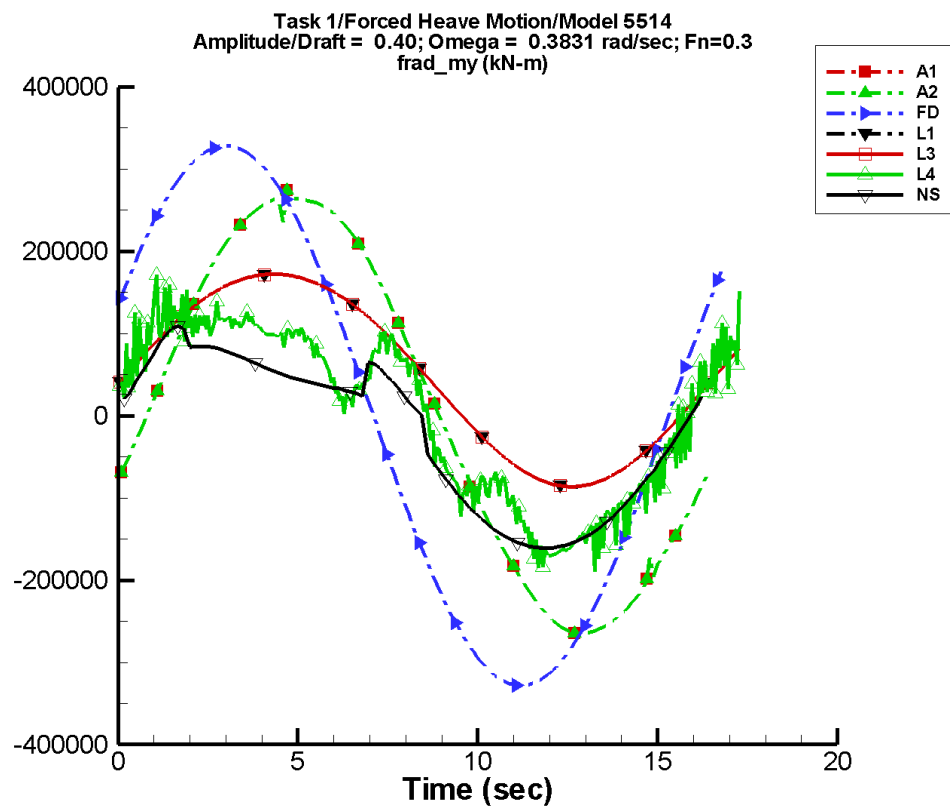
Table B–585. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	1.82E+03	1.32E+05	-16	483.	155
A2	1.82E+03	1.32E+05	-16	483.	155
FD	-2.31E-02	1.64E+05	24	4.93E-03	-40
L1	4.45E+04	6.46E+04	-6	1.24E+03	66
L3	4.45E+04	6.46E+04	-6	1.24E+03	66
L4	2.92E+04	7.91E+04	4	1.39E+04	76
NF	—	—	—	—	—
NS	-7.43E+03	6.87E+04	8	7.79E+03	115

Table B–586. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.33E+05	1.37E+05	-1.32E+05	1.31E+05
A2	-1.33E+05	1.37E+05	-1.32E+05	1.31E+05
FD	-1.64E+05	1.64E+05	-1.64E+05	1.64E+05
L1	-2.13E+04	1.08E+05	-2.12E+04	1.08E+05
L3	-2.13E+04	1.08E+05	-2.12E+04	1.08E+05
L4	-1.48E+05	1.44E+05	-1.24E+05	1.33E+05
NF	—	—	—	—
NS	-8.20E+04	5.53E+04	-8.12E+04	5.45E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-294. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

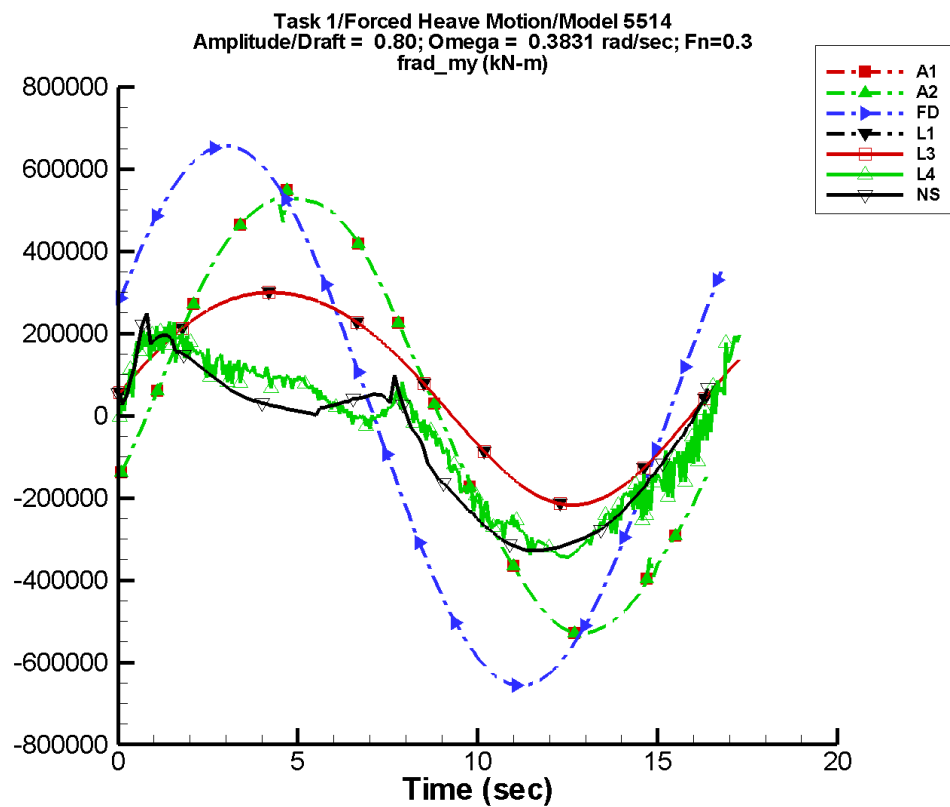
Table B–587. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.40, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	3.65E+03	2.65E+05	-16	966.	155
A2	3.65E+03	2.65E+05	-16	966.	155
FD	-4.10E-02	3.28E+05	24	1.72E-02	-46
L1	4.77E+04	1.29E+05	-6	4.96E+03	66
L3	4.77E+04	1.29E+05	-6	4.96E+03	66
L4	296.	1.36E+05	7	3.63E+04	60
NF	—	—	—	—	—
NS	-1.92E+04	1.19E+05	10	3.34E+04	84

Table B–588. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.65E+05	2.74E+05	-2.64E+05	2.62E+05
A2	-2.65E+05	2.74E+05	-2.64E+05	2.62E+05
FD	-3.28E+05	3.28E+05	-3.27E+05	3.27E+05
L1	-8.63E+04	1.72E+05	-8.62E+04	1.72E+05
L3	-8.64E+04	1.72E+05	-8.62E+04	1.72E+05
L4	-1.89E+05	1.71E+05	-1.70E+05	1.29E+05
NF	—	—	—	—
NS	-1.61E+05	1.14E+05	-1.59E+05	9.85E+04

# TASK 1/HEAVE MOTION/MODEL 5514



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

Figure B-295. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

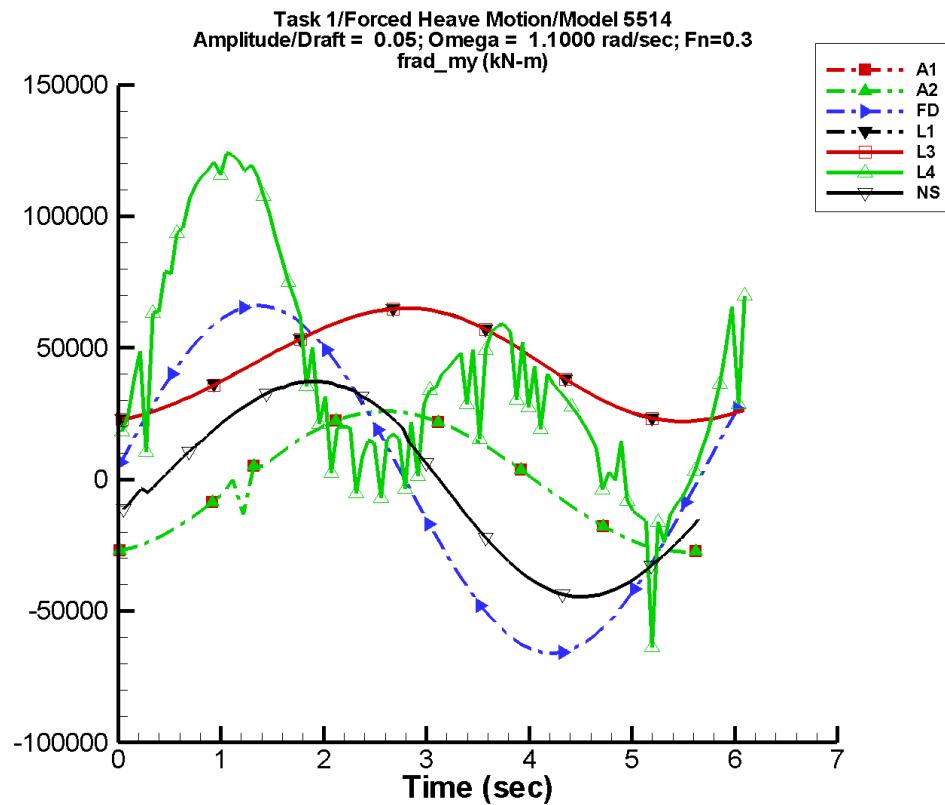
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	7.30E+03	5.30E+05	-16	1.93E+03	155
A2	7.30E+03	5.30E+05	-16	1.93E+03	155
FD	-6.87E-02	6.57E+05	24	5.89E-02	-67
L1	6.05E+04	2.58E+05	-6	1.98E+04	66
L3	6.05E+04	2.58E+05	-6	1.98E+04	66
L4	-5.52E+04	2.23E+05	10	7.39E+04	58
NF	—	—	—	—	—
NS	-6.58E+04	2.10E+05	16	8.64E+04	83

Table B–590. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.30E+05	5.48E+05	-5.28E+05	5.24E+05
A2	-5.30E+05	5.48E+05	-5.28E+05	5.24E+05
FD	-6.57E+05	6.57E+05	-6.54E+05	6.54E+05
L1	-2.17E+05	3.00E+05	-2.17E+05	2.99E+05
L3	-2.17E+05	3.00E+05	-2.17E+05	2.99E+05
L4	-3.44E+05	2.30E+05	-3.41E+05	1.90E+05
NF	—	—	—	—
NS	-3.28E+05	2.63E+05	-3.27E+05	2.07E+05



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

Figure B-296. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

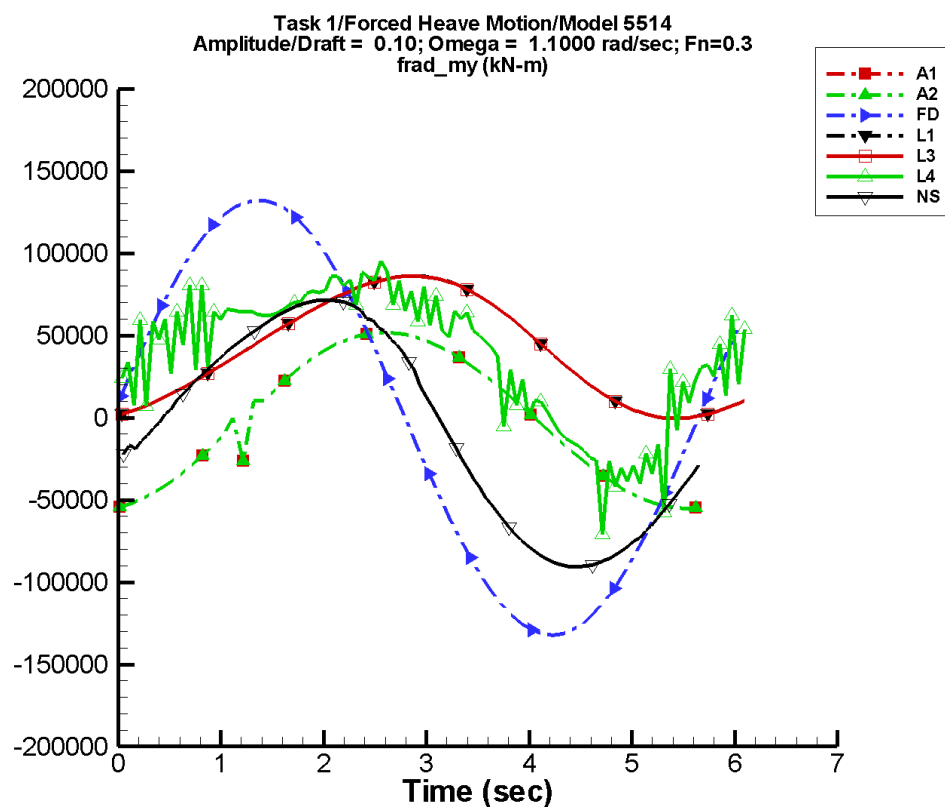
Table B–591. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.05, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-676.	2.65E+04	-76	160.	166
A2	-676.	2.65E+04	-76	160.	166
FD	-6.72E-03	6.61E+04	4	9.36E-03	18
L1	4.35E+04	2.14E+04	-81	984.	18
L3	4.35E+04	2.14E+04	-81	969.	18
L4	4.03E+04	3.34E+04	5	4.63E+04	-35
NF	—	—	—	—	—
NS	-2.62E+03	4.03E+04	-21	3.49E+03	127

Table B–592. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.75E+04	2.59E+04	-2.67E+04	2.51E+04
A2	-2.75E+04	2.59E+04	-2.67E+04	2.51E+04
FD	-6.61E+04	6.61E+04	-6.41E+04	6.41E+04
L1	2.21E+04	6.51E+04	2.24E+04	6.50E+04
L3	2.21E+04	6.51E+04	2.24E+04	6.50E+04
L4	-6.38E+04	1.24E+05	-2.06E+04	1.20E+05
NF	—	—	—	—
NS	-4.46E+04	3.77E+04	-4.42E+04	3.72E+04

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

Figure B-297. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

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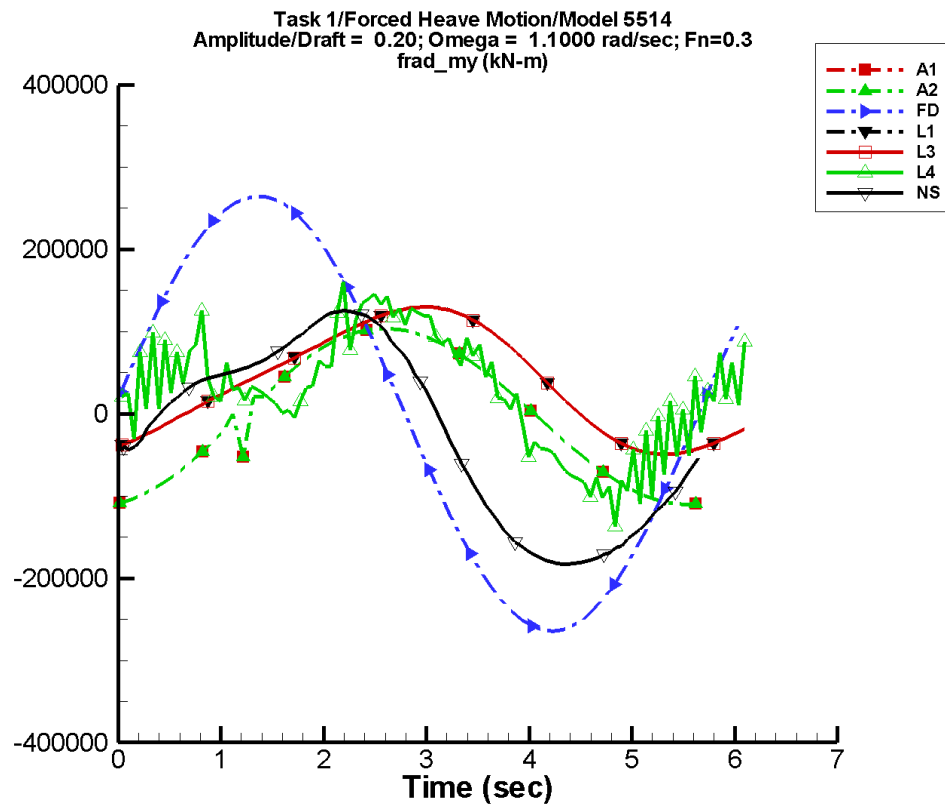
Table B–593. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.10, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.35E+03	5.29E+04	-76	320.	166
A2	-1.35E+03	5.29E+04	-76	320.	166
FD	-1.66E-02	1.32E+05	4	1.33E-02	28
L1	4.30E+04	4.27E+04	-81	3.67E+03	15
L3	4.30E+04	4.27E+04	-81	3.65E+03	15
L4	3.74E+04	5.15E+04	-36	1.71E+04	44
NF	—	—	—	—	—
NS	-7.32E+03	7.92E+04	-21	1.02E+04	125

Table B–594. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.50E+04	5.18E+04	-5.33E+04	5.01E+04
A2	-5.50E+04	5.18E+04	-5.33E+04	5.01E+04
FD	-1.32E+05	1.32E+05	-1.28E+05	1.28E+05
L1	-380.	8.62E+04	120.	8.63E+04
L3	-375.	8.62E+04	131.	8.63E+04
L4	-7.10E+04	1.01E+05	-3.69E+04	8.51E+04
NF	—	—	—	—
NS	-9.07E+04	7.21E+04	-8.98E+04	7.14E+04

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

Figure B-298. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

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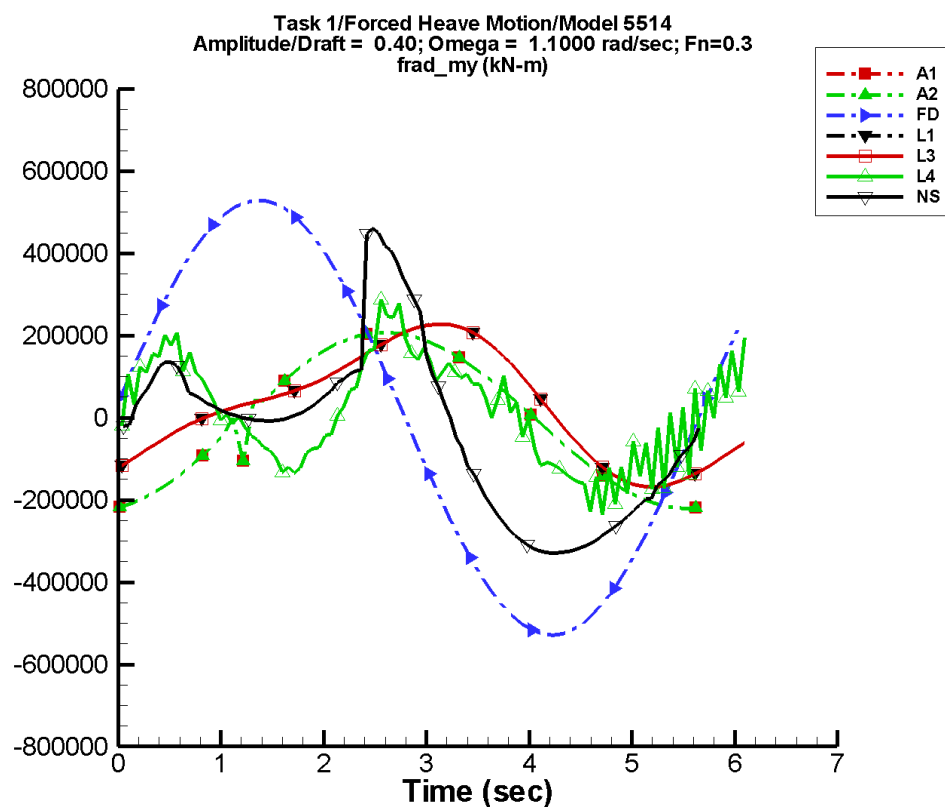
Table B–595. Coefficients of the Fourier fit  $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$  of  $M_y^{\text{rad}}$  for one period at amplitude/draft = 0.20, frequency = 1.1000 rad/s, Fn = 0.3 in the case of prescribed heave motion of Model 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-2.70E+03	1.06E+05	-76	640.	166
A2	-2.70E+03	1.06E+05	-76	640.	166
FD	-3.37E-02	2.65E+05	4	3.90E-02	50
L1	4.08E+04	8.53E+04	-81	1.43E+04	14
L3	4.07E+04	8.53E+04	-81	1.43E+04	14
L4	2.70E+04	7.64E+04	-47	5.72E+04	62
NF	—	—	—	—	—
NS	-2.65E+04	1.42E+05	-21	3.27E+04	114

Table B–596. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.10E+05	1.04E+05	-1.07E+05	1.00E+05
A2	-1.10E+05	1.04E+05	-1.07E+05	1.00E+05
FD	-2.65E+05	2.64E+05	-2.56E+05	2.56E+05
L1	-4.94E+04	1.30E+05	-4.82E+04	1.29E+05
L3	-4.94E+04	1.30E+05	-4.82E+04	1.29E+05
L4	-1.37E+05	1.60E+05	-9.42E+04	1.32E+05
NF	—	—	—	—
NS	-1.83E+05	1.26E+05	-1.81E+05	1.22E+05

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

Figure B-299. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

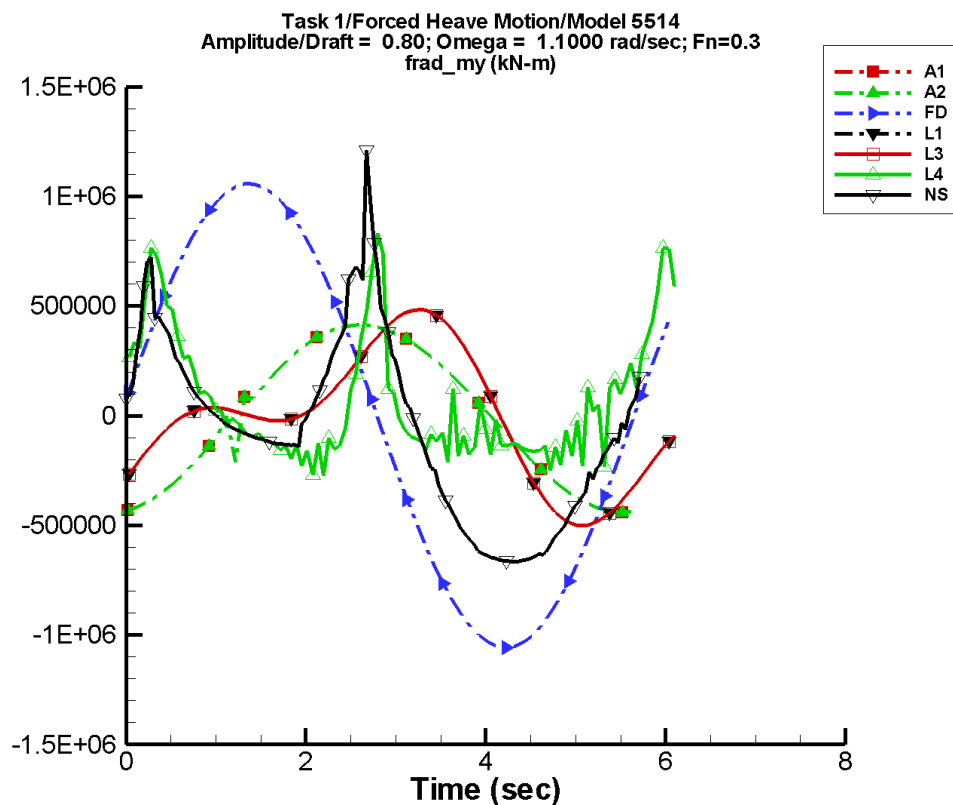
Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-5.40E+03	2.12E+05	-76	1.28E+03	166
A2	-5.40E+03	2.12E+05	-76	1.28E+03	166
FD	-5.41E-02	5.29E+05	4	7.54E-02	32
L1	3.19E+04	1.71E+05	-81	5.67E+04	14
L3	3.19E+04	1.71E+05	-81	5.67E+04	14
L4	1.31E+04	7.96E+04	-52	1.51E+05	57
NF	—	—	—	—	—
NS	-2.72E+04	2.04E+05	-27	1.65E+05	92

Table B–598. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.20E+05	2.07E+05	-2.13E+05	2.01E+05
A2	-2.20E+05	2.07E+05	-2.13E+05	2.01E+05
FD	-5.29E+05	5.29E+05	-5.13E+05	5.12E+05
L1	-1.68E+05	2.28E+05	-1.65E+05	2.24E+05
L3	-1.68E+05	2.28E+05	-1.65E+05	2.24E+05
L4	-2.35E+05	3.66E+05	-1.72E+05	2.23E+05
NF	—	—	—	—
NS	-3.29E+05	4.84E+05	-3.26E+05	4.10E+05



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

Figure B-300. Time history of  $M_y^{\text{rad}}$  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 5514 scaled to  $L = 142$  m.

Table B–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  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	$a_0$ (kN-m)	$a_1$ (kN-m)	$\Phi_1$ (deg)	$a_2$ (kN-m)	$\Phi_2$ (deg)
A1	-1.08E+04	4.23E+05	-76	2.56E+03	166
A2	-1.08E+04	4.23E+05	-76	2.56E+03	166
FD	-0.129	1.06E+06	4	8.80E-02	8
L1	-3.40E+03	3.41E+05	-81	2.26E+05	14
L3	-3.42E+03	3.41E+05	-81	2.26E+05	14
L4	5.34E+04	1.04E+05	48	2.89E+05	65
NF	—	—	—	—	—
NS	-4.36E+04	3.39E+05	-12	3.97E+05	88

Table B–600. Minimum and maximum of  $M_y^{\text{rad}}$  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 5514 scaled to L = 142 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.40E+05	4.14E+05	-4.26E+05	4.01E+05
A2	-4.40E+05	4.14E+05	-4.26E+05	4.01E+05
FD	-1.06E+06	1.06E+06	-1.03E+06	1.02E+06
L1	-5.01E+05	4.83E+05	-4.89E+05	4.71E+05
L3	-5.01E+05	4.83E+05	-4.89E+05	4.71E+05
L4	-2.74E+05	8.31E+05	-2.02E+05	5.50E+05
NF	—	—	—	—
NS	-6.65E+05	1.26E+06	-6.63E+05	8.25E+05