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

Appendix R — Minimum and Maximum Plots for 0-DOF Motion of Model 5514 in Waves

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Introduction

This appendix contains plots and tables related to the minimum and maximum value of each variable versus wave steepness for the 0-DOF prescribed motions of Model 5514 in task 2. The plots are found in Figures R–1 through R–226. For each variable, speed, and heading there is one plot that depicts the results from all the codes. If f stands for a time-dependent variable, then the quantities plotted are the minimum and maximum of

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

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

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

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

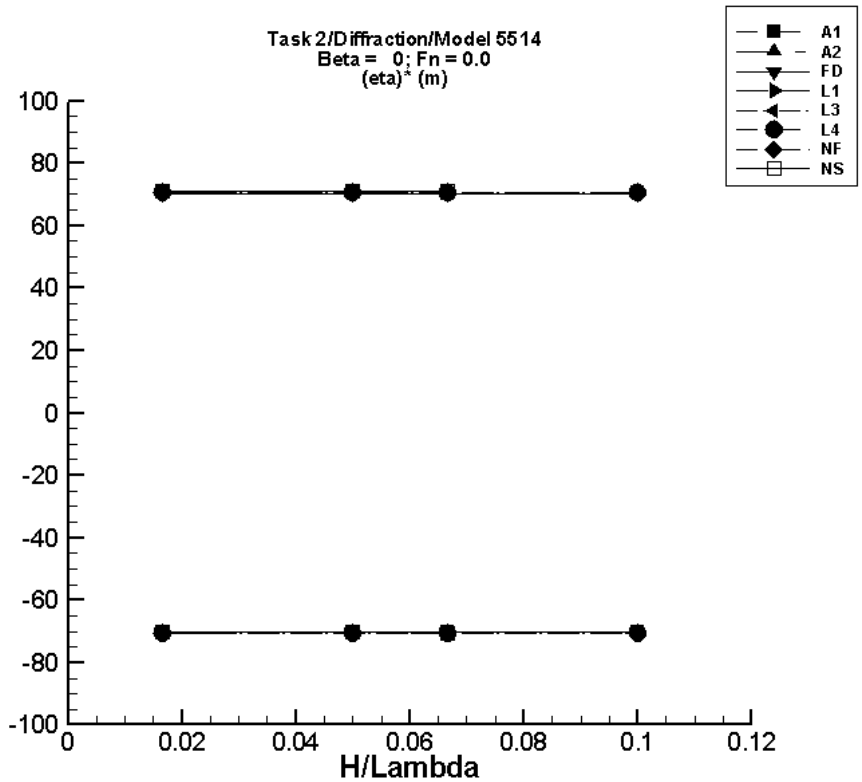

Figure R–1. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–2. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–3. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.22E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.43E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–4. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.08E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.23E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.63E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.45E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–5. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.08E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.23E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.63E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.45E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–6. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.08E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.23E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.63E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.45E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–7. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–8. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ Mean (m)	Unfiltered η Min. (m)	Unfiltered η Max. (m)	Filtered η Min. (m)	Filtered η Max. (m)	Filtered $(\eta)^*$ Min. (m)	Filtered $(\eta)^*$ Max. (m)
1/60	-2.51E-04	-1.18	1.18	-1.17	1.19	-70.3	71.2
1/20	-7.51E-04	-3.55	3.55	-3.51	3.56	-70.3	71.2
1/15	-1.00E-03	-4.74	4.74	-4.71	4.75	-70.6	71.3
1/10	—	—	—	—	—	—	—

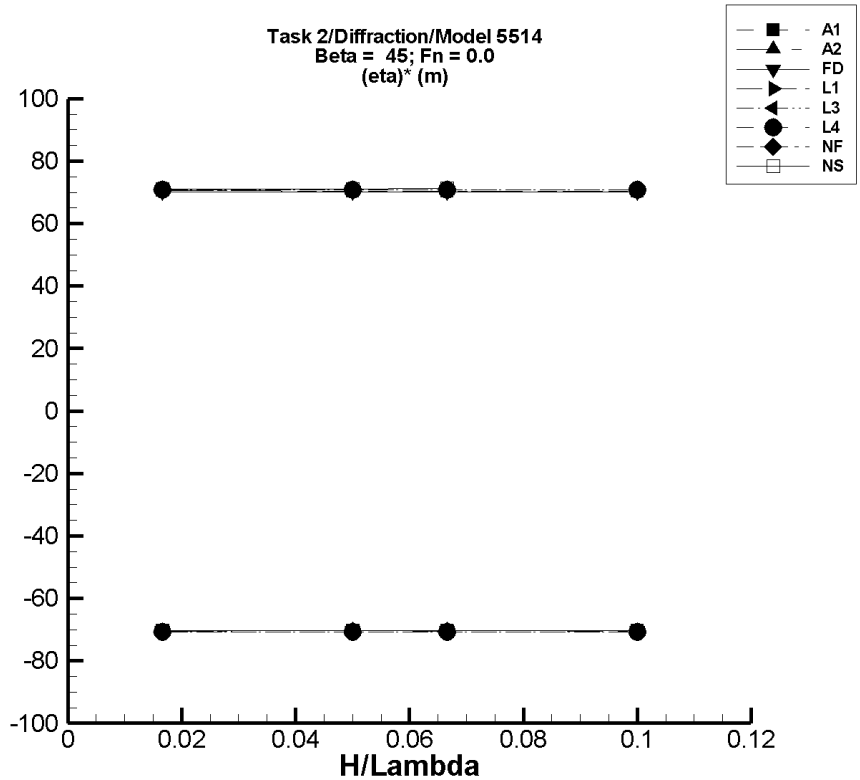

Figure R–2. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–9. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–10. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	4.86E-03	-7.12	7.12	-7.04	7.04	-70.5	70.4

Table R–11. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.22E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.43E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–12. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.48E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.34E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.79E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.69E-03	-7.10	7.10	-7.07	7.07	-70.7	70.8

Table R–13. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.48E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.34E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.79E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.69E-03	-7.10	7.10	-7.07	7.07	-70.7	70.8

Table R–14. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.48E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.34E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.79E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.69E-03	-7.10	7.10	-7.07	7.07	-70.7	70.8

Table R–15. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–16. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-2.47E-04	-1.18	1.18	-1.17	1.18	-70.3	71.1
1/20	-7.40E-04	-3.55	3.55	-3.51	3.55	-70.3	71.1
1/15	-9.84E-04	-4.73	4.73	-4.71	4.75	-70.6	71.2
1/10	—	—	—	—	—	—	—

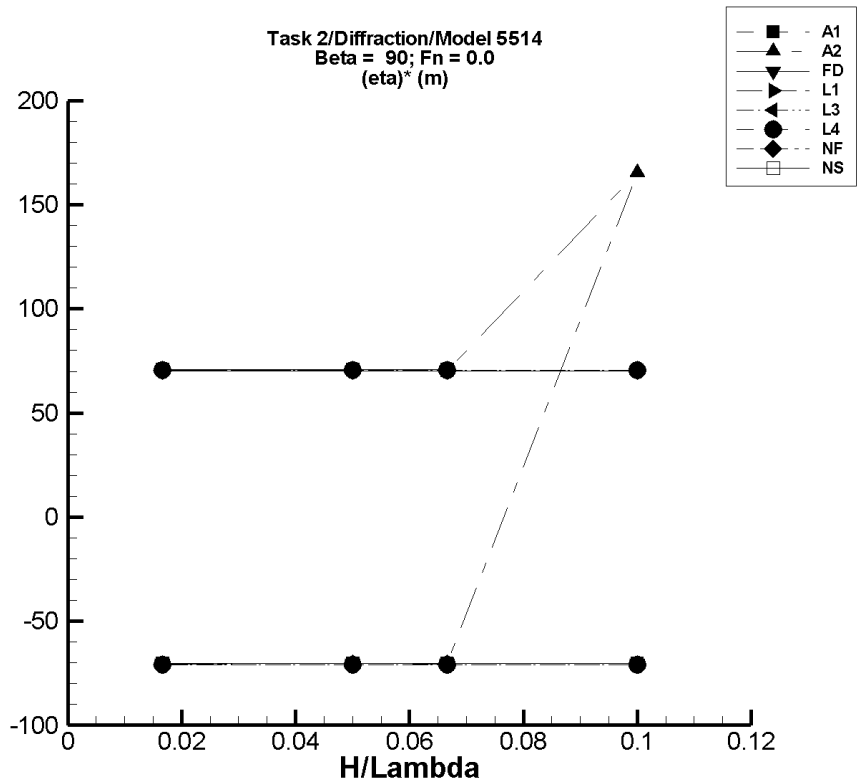

Figure R–3. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–17. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–18. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-9.44	7.09	7.12	7.09	7.12	165.	166.

Table R–19. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.22E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.43E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–20. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–21. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–22. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–23. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–24. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-2.55E-04	-1.18	1.18	-1.17	1.18	-70.3	70.8
1/20	-7.66E-04	-3.55	3.55	-3.51	3.54	-70.2	70.8
1/15	-1.00E-03	-4.74	4.74	-4.71	4.73	-70.6	71.0
1/10	—	—	—	—	—	—	—

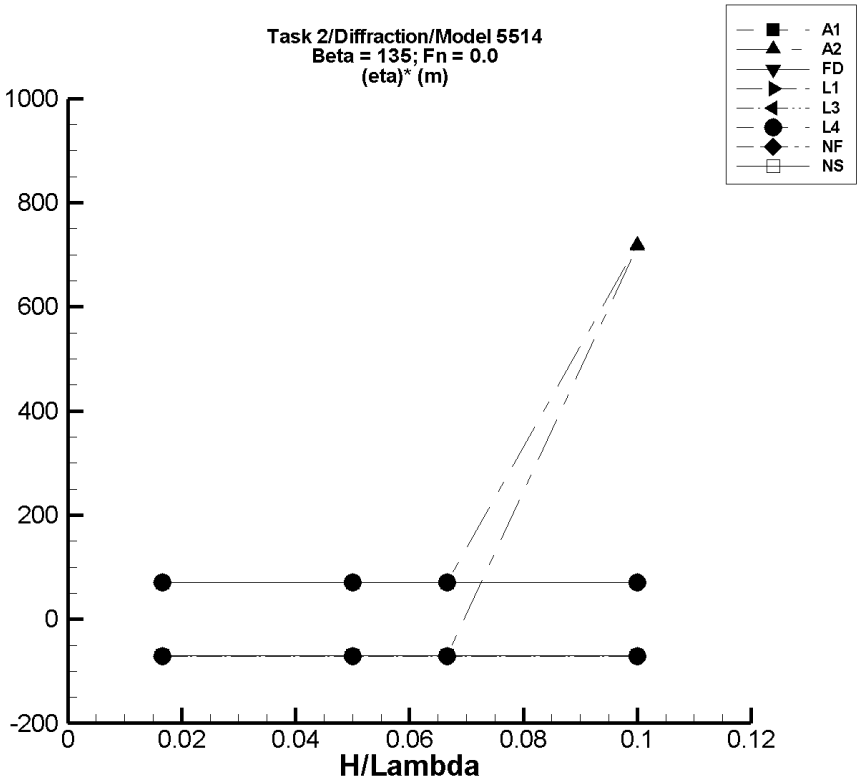

Figure R–4. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–25. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–26. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-76.7	-5.10	-4.76	-5.10	-4.76	716.	719.

Table R–27. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.22E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.43E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–28. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.82E-05	-1.18	1.18	-1.18	1.18	-70.7	70.7
1/20	-5.46E-05	-3.55	3.55	-3.54	3.54	-70.7	70.7
1/15	-7.26E-05	-4.73	4.73	-4.72	4.72	-70.7	70.7
1/10	-1.08E-04	-7.10	7.10	-7.07	7.07	-70.7	70.7

Table R–29. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.82E-05	-1.18	1.18	-1.18	1.18	-70.7	70.7
1/20	-5.46E-05	-3.55	3.55	-3.54	3.54	-70.7	70.7
1/15	-7.26E-05	-4.73	4.73	-4.72	4.72	-70.7	70.7
1/10	-1.08E-04	-7.10	7.10	-7.07	7.07	-70.7	70.7

Table R–30. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.82E-05	-1.18	1.18	-1.18	1.18	-70.7	70.7
1/20	-5.46E-05	-3.55	3.55	-3.54	3.54	-70.7	70.7
1/15	-7.26E-05	-4.73	4.73	-4.72	4.72	-70.7	70.7
1/10	-1.08E-04	-7.10	7.10	-7.07	7.07	-70.7	70.7

Table R–31. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–32. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-2.47E-04	-1.18	1.18	-1.17	1.17	-70.3	70.5
1/20	-7.40E-04	-3.55	3.55	-3.51	3.52	-70.3	70.5
1/15	-1.02E-03	-4.73	4.73	-4.71	4.71	-70.6	70.7
1/10	—	—	—	—	—	—	—

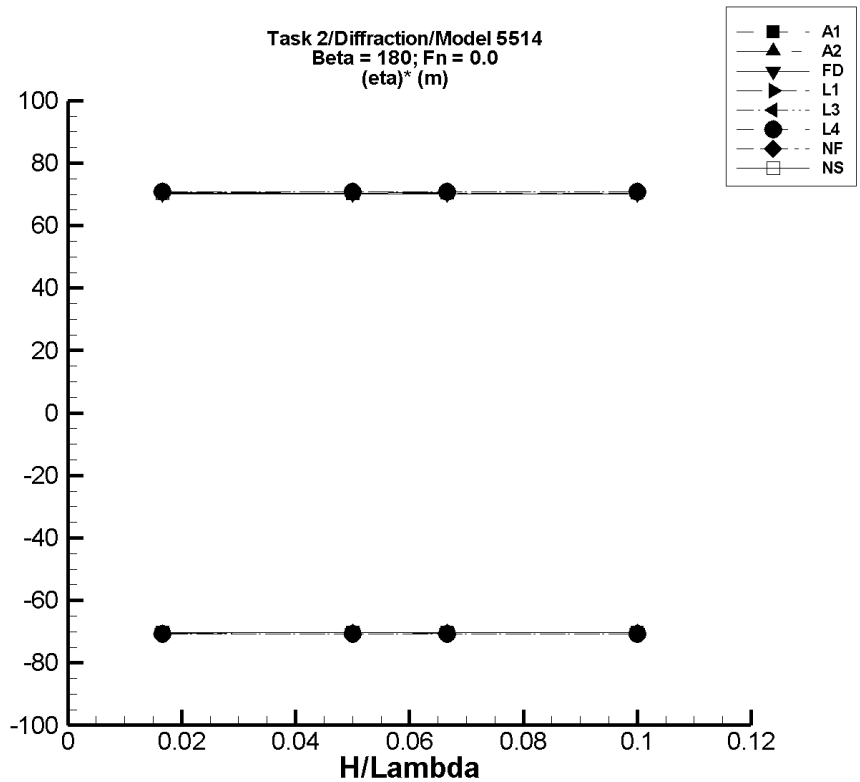

Figure R–5. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–33. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–34. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–35. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	**Unfiltered η**		**Filtered η**		**Filtered $(\eta)^*$**	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.22E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.43E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–36. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.28E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.28E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.71E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.57E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–37. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.28E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.28E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.71E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.57E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–38. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-4.28E-04	-1.18	1.18	-1.18	1.18	-70.7	70.8
1/20	-1.28E-03	-3.55	3.55	-3.54	3.54	-70.7	70.8
1/15	-1.71E-03	-4.73	4.73	-4.72	4.72	-70.7	70.8
1/10	-2.57E-03	-7.10	7.10	-7.07	7.08	-70.7	70.8

Table R–39. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–40. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-2.59E-04	-1.18	1.18	-1.17	1.17	-70.3	70.3
1/20	-7.77E-04	-3.55	3.55	-3.51	3.51	-70.3	70.3
1/15	-1.00E-03	-4.73	4.74	-4.71	4.71	-70.6	70.6
1/10	—	—	—	—	—	—	—

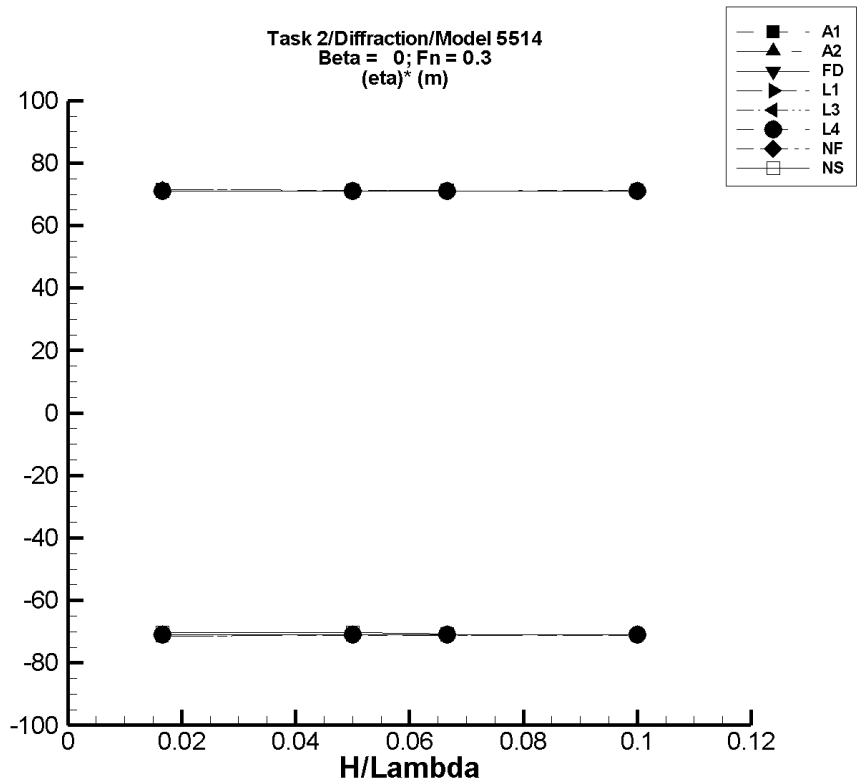

Figure R–6. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–41. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	9.77E-04	-1.19	1.19	-1.19	1.19	-71.4	71.5
1/20	2.92E-03	-3.56	3.56	-3.56	3.57	-71.2	71.3
1/15	3.89E-03	-4.74	4.74	-4.74	4.75	-71.1	71.2
1/10	5.84E-03	-7.12	7.12	-7.12	7.13	-71.2	71.3

Table R–42. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	9.77E-04	-1.19	1.19	-1.19	1.19	-71.4	71.5
1/20	2.92E-03	-3.56	3.56	-3.56	3.57	-71.2	71.3
1/15	3.89E-03	-4.74	4.74	-4.74	4.75	-71.1	71.2
1/10	5.84E-03	-7.12	7.12	-7.12	7.13	-71.2	71.3

Table R–43. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-8.32E-04	-1.18	1.18	-1.18	1.18	-70.9	71.0
1/20	-2.50E-03	-3.55	3.55	-3.55	3.55	-70.9	71.0
1/15	-3.33E-03	-4.73	4.73	-4.73	4.73	-70.9	71.0
1/10	-4.99E-03	-7.10	7.10	-7.10	7.10	-70.9	71.0

Table R–44. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.79E-05	-1.18	1.18	-1.18	1.18	-71.0	71.0
1/20	-2.03E-04	-3.55	3.55	-3.55	3.55	-71.0	71.0
1/15	-2.72E-04	-4.73	4.73	-4.73	4.73	-71.0	71.0
1/10	-4.07E-04	-7.10	7.10	-7.10	7.10	-71.0	71.0

Table R–45. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.79E-05	-1.18	1.18	-1.18	1.18	-71.0	71.0
1/20	-2.03E-04	-3.55	3.55	-3.55	3.55	-71.0	71.0
1/15	-2.72E-04	-4.73	4.73	-4.73	4.73	-71.0	71.0
1/10	-4.07E-04	-7.10	7.10	-7.10	7.10	-71.0	71.0

Table R–46. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.79E-05	-1.18	1.18	-1.18	1.18	-71.0	71.0
1/20	-2.03E-04	-3.55	3.55	-3.55	3.55	-71.0	71.0
1/15	-2.72E-04	-4.73	4.73	-4.73	4.73	-71.0	71.0
1/10	-4.07E-04	-7.10	7.10	-7.10	7.10	-71.0	71.0

Table R–47. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–48. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ Mean (m)	Unfiltered η Min. (m)	Unfiltered η Max. (m)	Filtered η Min. (m)	Filtered η Max. (m)	Filtered $(\eta)^*$ Min. (m)	Filtered $(\eta)^*$ Max. (m)
1/60	1.09E-03	-1.18	1.18	-1.17	1.19	-70.4	71.1
1/20	3.28E-03	-3.55	3.55	-3.52	3.56	-70.4	71.1
1/15	4.29E-03	-4.74	4.74	-4.71	4.75	-70.7	71.2
1/10	—	—	—	—	—	—	—

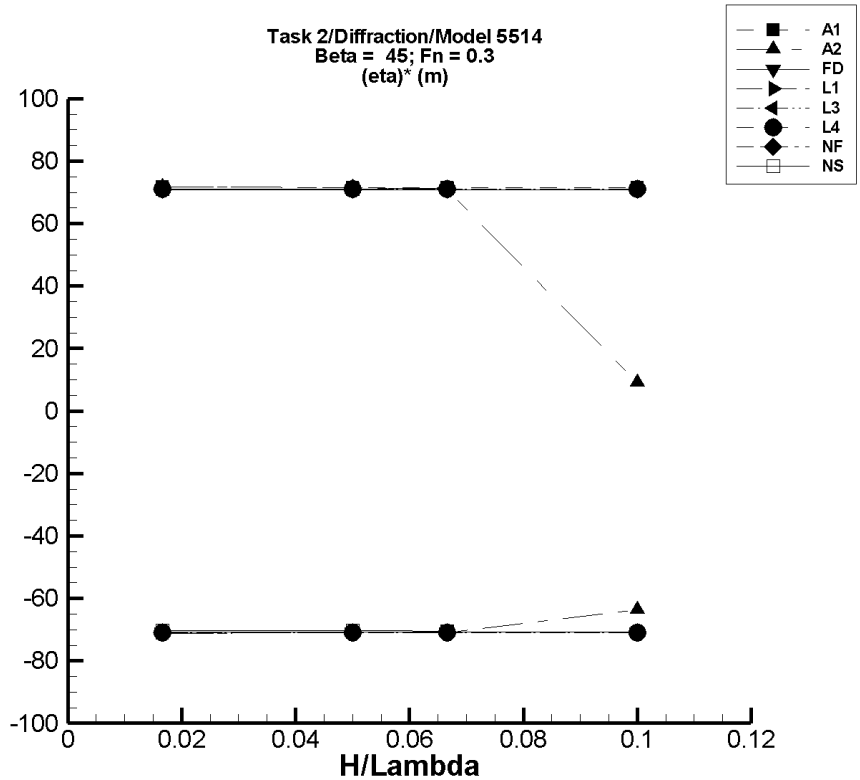

Figure R–7. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–49. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.51E-03	-1.19	1.19	-1.19	1.19	-71.1	71.7
1/20	-4.51E-03	-3.56	3.56	-3.55	3.57	-70.9	71.5
1/15	-6.00E-03	-4.74	4.74	-4.73	4.75	-70.8	71.4
1/10	-9.02E-03	-7.12	7.12	-7.10	7.14	-70.9	71.5

Table R–50. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.51E-03	-1.19	1.19	-1.19	1.19	-71.1	71.7
1/20	-4.51E-03	-3.56	3.56	-3.55	3.57	-70.9	71.5
1/15	1.50E-04	-4.74	4.74	-4.73	4.73	-70.9	70.9
1/10	1.82	-4.64	2.78	-4.54	2.74	-63.6	9.20

Table R–51. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-7.50E-04	-1.18	1.18	-1.18	1.18	-70.8	70.9
1/20	-2.25E-03	-3.55	3.55	-3.54	3.54	-70.8	70.9
1/15	-3.00E-03	-4.73	4.73	-4.72	4.72	-70.8	70.9
1/10	-4.50E-03	-7.10	7.10	-7.08	7.08	-70.8	70.9

Table R–52. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	2.56E-04	-1.18	1.18	-1.18	1.18	-71.0	70.9
1/20	7.69E-04	-3.55	3.55	-3.55	3.55	-71.0	70.9
1/15	1.03E-03	-4.73	4.73	-4.73	4.73	-71.0	70.9
1/10	1.54E-03	-7.10	7.10	-7.10	7.10	-71.0	70.9

Table R–53. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	2.56E-04	-1.18	1.18	-1.18	1.18	-71.0	70.9
1/20	7.69E-04	-3.55	3.55	-3.55	3.55	-71.0	70.9
1/15	1.03E-03	-4.73	4.73	-4.73	4.73	-71.0	70.9
1/10	1.54E-03	-7.10	7.10	-7.10	7.10	-71.0	70.9

Table R–54. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	2.56E-04	-1.18	1.18	-1.18	1.18	-71.0	70.9
1/20	7.69E-04	-3.55	3.55	-3.55	3.55	-71.0	70.9
1/15	1.03E-03	-4.73	4.73	-4.73	4.73	-71.0	70.9
1/10	1.54E-03	-7.10	7.10	-7.10	7.10	-71.0	70.9

Table R–55. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–56. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-1.05E-03	-1.18	1.18	-1.17	1.18	-70.2	71.1
1/20	-3.14E-03	-3.55	3.55	-3.51	3.55	-70.2	71.1
1/15	-4.11E-03	-4.73	4.73	-4.71	4.75	-70.5	71.3
1/10	—	—	—	—	—	—	—

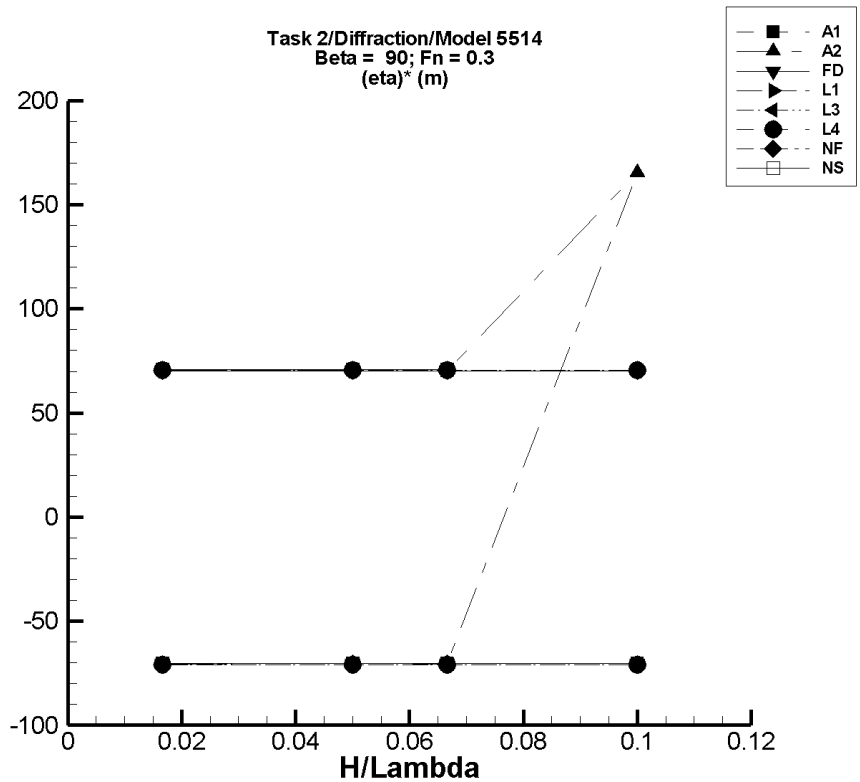

Figure R–8. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–57. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	**Unfiltered** η		**Filtered** η		**Filtered** $(\eta)^*$	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-5.18E-03	-7.12	7.12	-7.04	7.04	-70.4	70.4

Table R–58. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	**Unfiltered** η		**Filtered** η		**Filtered** $(\eta)^*$	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-8.65E-04	-1.19	1.19	-1.18	1.18	-70.6	70.6
1/20	-2.59E-03	-3.56	3.56	-3.52	3.52	-70.4	70.4
1/15	-3.45E-03	-4.74	4.74	-4.69	4.69	-70.3	70.3
1/10	-9.44	7.09	7.12	7.09	7.12	165.	166.

Table R–59. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	**Unfiltered** η		**Filtered** η		**Filtered** $(\eta)^*$	
H/λ	**Mean (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**	**Min. (m)**	**Max. (m)**
1/60	-4.06E-05	-1.18	1.18	-1.17	1.17	-70.2	70.2
1/20	-1.21E-04	-3.55	3.55	-3.51	3.51	-70.2	70.2
1/15	-1.62E-04	-4.73	4.73	-4.68	4.68	-70.2	70.2
1/10	-2.44E-04	-7.10	7.10	-7.02	7.02	-70.2	70.2

Table R–60. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–61. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–62. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	5.20E-04	-1.18	1.18	-1.18	1.18	-70.8	70.7
1/20	1.56E-03	-3.55	3.55	-3.54	3.54	-70.8	70.7
1/15	2.08E-03	-4.73	4.73	-4.72	4.72	-70.8	70.7
1/10	3.12E-03	-7.10	7.10	-7.08	7.07	-70.8	70.7

Table R–63. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–64. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ **Mean (m)**	**Unfiltered η Min. (m)**	**Unfiltered η Max. (m)**	**Filtered η Min. (m)**	**Filtered η Max. (m)**	**Filtered $(\eta)^*$ Min. (m)**	**Filtered $(\eta)^*$ Max. (m)**
1/60	-2.60E-04	-1.18	1.18	-1.17	1.18	-70.3	70.8
1/20	-7.80E-04	-3.55	3.55	-3.52	3.54	-70.3	70.8
1/15	-1.01E-03	-4.74	4.74	-4.71	4.73	-70.6	71.0
1/10	—	—	—	—	—	—	—

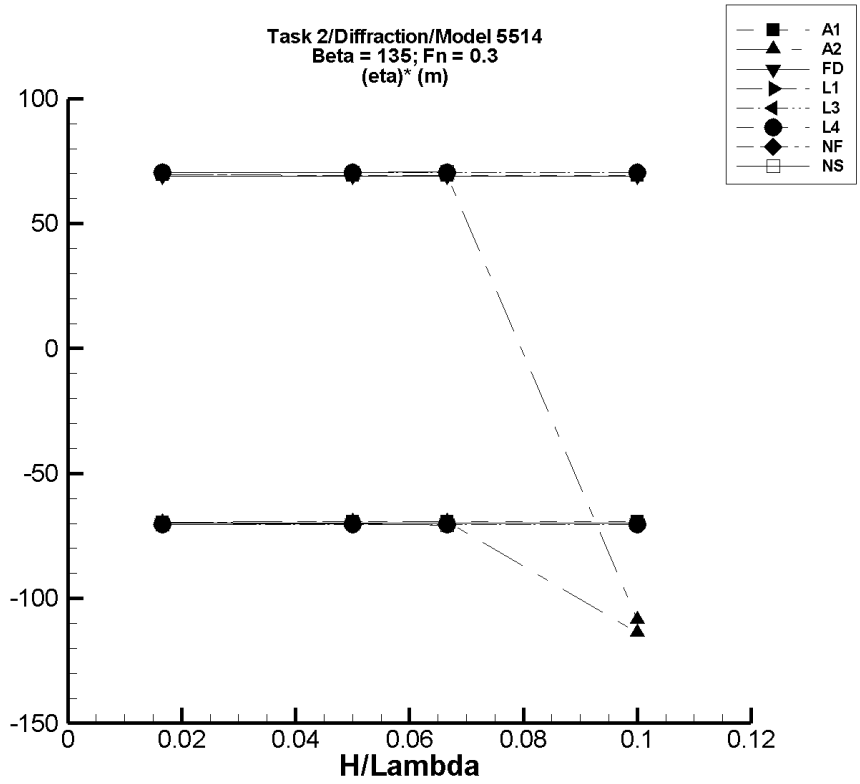

Figure R–9. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–65. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.21E-03	-1.19	1.19	-1.16	1.16	-69.5	69.6
1/20	-3.62E-03	-3.56	3.56	-3.47	3.46	-69.3	69.4
1/15	-4.82E-03	-4.74	4.74	-4.62	4.61	-69.2	69.3
1/10	-7.24E-03	-7.12	7.12	-6.93	6.93	-69.3	69.4

Table R–66. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.21E-03	-1.19	1.19	-1.16	1.16	-69.5	69.6
1/20	-3.62E-03	-3.56	3.56	-3.47	3.46	-69.3	69.4
1/15	-4.82E-03	-4.74	4.74	-4.62	4.61	-69.2	69.3
1/10	6.18	-5.20	-4.68	-5.20	-4.68	-114.	-109.

Table R–67. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	6.42E-04	-1.18	1.18	-1.17	1.15	-70.0	69.1
1/20	1.93E-03	-3.55	3.55	-3.50	3.46	-70.0	69.1
1/15	2.57E-03	-4.73	4.73	-4.66	4.61	-70.0	69.1
1/10	3.85E-03	-7.09	7.10	-6.99	6.92	-70.0	69.1

Table R–68. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.84E-04	-1.18	1.18	-1.17	1.17	-70.3	70.4
1/20	-2.05E-03	-3.55	3.55	-3.52	3.52	-70.3	70.4
1/15	-2.73E-03	-4.73	4.73	-4.69	4.69	-70.3	70.4
1/10	-4.10E-03	-7.10	7.10	-7.04	7.03	-70.3	70.4

Table R–69. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.84E-04	-1.18	1.18	-1.17	1.17	-70.3	70.4
1/20	-2.05E-03	-3.55	3.55	-3.52	3.52	-70.3	70.4
1/15	-2.73E-03	-4.73	4.73	-4.69	4.69	-70.3	70.4
1/10	-4.10E-03	-7.10	7.10	-7.04	7.03	-70.3	70.4

Table R–70. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-6.84E-04	-1.18	1.18	-1.17	1.17	-70.3	70.4
1/20	-2.05E-03	-3.55	3.55	-3.52	3.52	-70.3	70.4
1/15	-2.73E-03	-4.73	4.73	-4.69	4.69	-70.3	70.4
1/10	-4.10E-03	-7.10	7.10	-7.04	7.03	-70.3	70.4

Table R–71. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–72. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ Mean (m)	Unfiltered η Min. (m)	Unfiltered η Max. (m)	Filtered η Min. (m)	Filtered η Max. (m)	Filtered $(\eta)^*$ Min. (m)	Filtered $(\eta)^*$ Max. (m)
1/60	-5.42E-04	-1.18	1.18	-1.17	1.17	-70.3	70.5
1/20	-1.62E-03	-3.55	3.55	-3.51	3.52	-70.3	70.5
1/15	-2.24E-03	-4.73	4.73	-4.71	4.71	-70.6	70.8
1/10	—	—	—	—	—	—	—

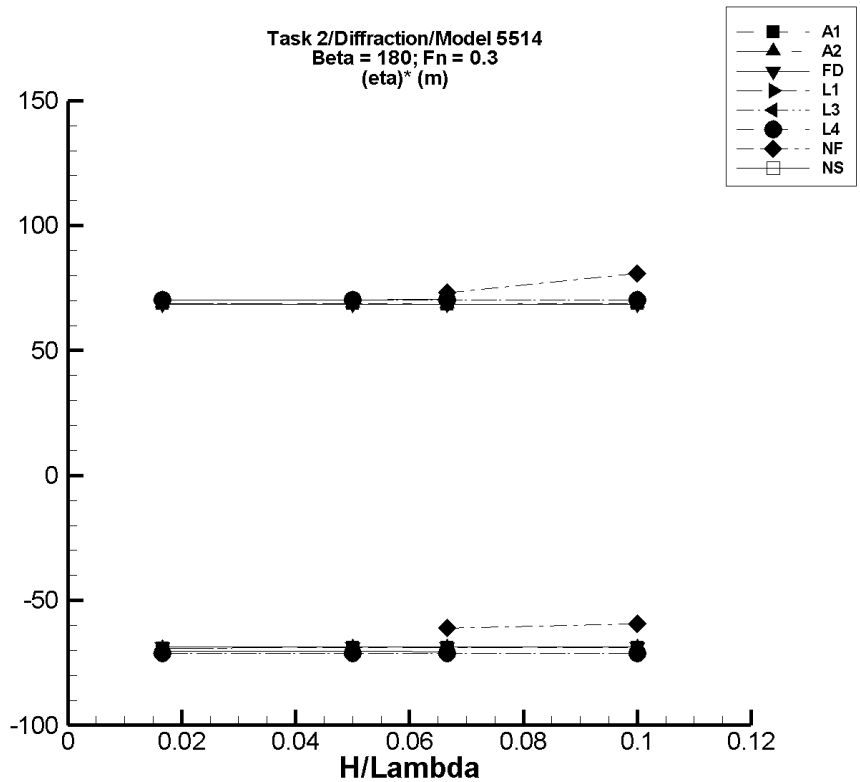

Figure R–10. Minimum and Maximum of $(\eta)^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–73. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.15E-03	-1.19	1.19	-1.15	1.15	-69.1	68.9
1/20	3.45E-03	-3.56	3.56	-3.44	3.44	-68.9	68.7
1/15	4.59E-03	-4.74	4.74	-4.58	4.58	-68.8	68.6
1/10	6.90E-03	-7.12	7.11	-6.88	6.87	-68.9	68.7

Table R–74. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	1.15E-03	-1.19	1.19	-1.15	1.15	-69.1	68.9
1/20	3.45E-03	-3.56	3.56	-3.44	3.44	-68.9	68.7
1/15	4.59E-03	-4.74	4.74	-4.58	4.58	-68.8	68.6
1/10	6.90E-03	-7.12	7.11	-6.88	6.87	-68.9	68.7

Table R–75. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-2.47E-04	-1.18	1.18	-1.14	1.14	-68.7	68.6
1/20	-7.42E-04	-3.55	3.55	-3.43	3.43	-68.7	68.6
1/15	-9.89E-04	-4.73	4.73	-4.58	4.57	-68.7	68.6
1/10	-1.48E-03	-7.10	7.10	-6.87	6.86	-68.7	68.6

Table R–76. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.95E-03	-1.18	1.18	-1.19	1.17	-71.1	70.3
1/20	-5.86E-03	-3.55	3.55	-3.56	3.51	-71.1	70.3
1/15	-7.81E-03	-4.73	4.73	-4.74	4.68	-71.1	70.3
1/10	-1.17E-02	-7.10	7.10	-7.12	7.02	-71.1	70.3

Table R–77. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.95E-03	-1.18	1.18	-1.19	1.17	-71.1	70.3
1/20	-5.86E-03	-3.55	3.55	-3.56	3.51	-71.1	70.3
1/15	-7.81E-03	-4.73	4.73	-4.74	4.68	-71.1	70.3
1/10	-1.17E-02	-7.10	7.10	-7.12	7.02	-71.1	70.3

Table R–78. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle\eta\rangle$	Unfiltered η		Filtered η		Filtered $(\eta)^*$	
H/λ	Mean (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)	Min. (m)	Max. (m)
1/60	-1.95E-03	-1.18	1.18	-1.19	1.17	-71.1	70.3
1/20	-5.86E-03	-3.55	3.55	-3.56	3.51	-71.1	70.3
1/15	-7.81E-03	-4.73	4.73	-4.74	4.68	-71.1	70.3
1/10	-1.17E-02	-7.10	7.10	-7.12	7.02	-71.1	70.3

Table R–79. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle\eta\rangle$ Mean (m)	Unfiltered η Min. (m)	Unfiltered η Max. (m)	Filtered η Min. (m)	Filtered η Max. (m)	Filtered $(\eta)^*$ Min. (m)	Filtered $(\eta)^*$ Max. (m)
1/60	—	—	—	—	—	—	—
1/20	-2.57E-03	-3.27	3.82	-3.14	3.58	-62.7	71.7
1/15	-3.62E-03	-4.24	5.22	-4.09	4.87	-61.3	73.1
1/10	-1.71E-02	-5.98	8.21	-5.95	8.06	-59.3	80.8

Table R–80. Minimum and Maximum of η for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle\eta\rangle$ Mean (m)	Unfiltered η Min. (m)	Unfiltered η Max. (m)	Filtered η Min. (m)	Filtered η Max. (m)	Filtered $(\eta)^*$ Min. (m)	Filtered $(\eta)^*$ Max. (m)
1/60	1.94E-03	-1.18	1.18	-1.17	1.17	-70.4	70.2
1/20	5.82E-03	-3.55	3.55	-3.52	3.52	-70.4	70.2
1/15	7.90E-03	-4.73	4.73	-4.71	4.71	-70.7	70.5
1/10	—	—	—	—	—	—	—

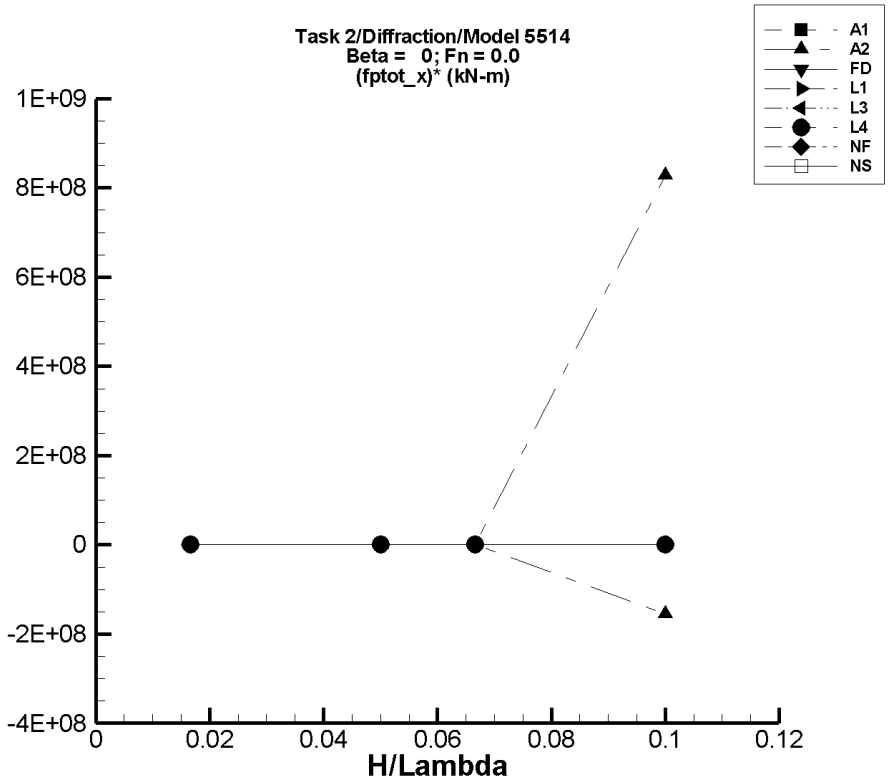

Figure R–11. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–81. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.347	-920.	928.	-911.	913.	-5.46E+04	5.48E+04
1/20	-1.04	-2.75E+03	2.78E+03	-2.72E+03	2.73E+03	-5.45E+04	5.46E+04
1/15	-1.38	-3.67E+03	3.70E+03	-3.63E+03	3.64E+03	-5.44E+04	5.45E+04
1/10	-2.07	-5.51E+03	5.55E+03	-5.45E+03	5.46E+03	-5.45E+04	5.46E+04

Table R–82. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	49.8	-875.	1.03E+03	-866.	1.01E+03	-5.49E+04	5.75E+04
1/20	27.0	-2.62E+03	3.14E+03	-2.57E+03	3.05E+03	-5.19E+04	6.05E+04
1/15	-7.71	-3.67E+03	4.36E+03	-3.54E+03	4.19E+03	-5.30E+04	6.30E+04
1/10	7.70E+06	-5.92E+03	6.79E+08	-7.74E+06	9.05E+07	-1.54E+08	8.28E+08

Table R–83. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.5	-1.45E+03	1.36E+03	-1.43E+03	1.34E+03	-8.47E+04	8.19E+04
1/20	-15.3	-4.60E+03	4.14E+03	-4.52E+03	4.09E+03	-9.02E+04	8.22E+04
1/15	-8.95	-6.26E+03	5.54E+03	-6.14E+03	5.49E+03	-9.19E+04	8.24E+04
1/10	10.9	-9.36E+03	8.24E+03	-9.16E+03	8.17E+03	-9.17E+04	8.16E+04

Table R–84. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.491	-759.	766.	-756.	763.	-4.53E+04	4.58E+04
1/20	-6.51	-2.27E+03	2.31E+03	-2.26E+03	2.30E+03	-4.50E+04	4.61E+04
1/15	-12.0	-3.02E+03	3.08E+03	-3.01E+03	3.07E+03	-4.49E+04	4.62E+04
1/10	-28.1	-4.51E+03	4.65E+03	-4.49E+03	4.63E+03	-4.46E+04	4.65E+04

Table R–85. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-16.4	-789.	737.	-785.	734.	-4.61E+04	4.50E+04
1/20	-21.8	-2.34E+03	2.21E+03	-2.32E+03	2.20E+03	-4.60E+04	4.44E+04
1/15	-26.4	-3.00E+03	2.87E+03	-2.97E+03	2.85E+03	-4.42E+04	4.32E+04
1/10	-36.1	-3.80E+03	3.66E+03	-3.75E+03	3.63E+03	-3.71E+04	3.67E+04

Table R–86. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	22.2	-774.	766.	-766.	763.	-4.73E+04	4.44E+04
1/20	329.	-2.18E+03	2.42E+03	-2.09E+03	2.40E+03	-4.84E+04	4.14E+04
1/15	600.	-2.64E+03	3.30E+03	-2.54E+03	3.25E+03	-4.71E+04	3.98E+04
1/10	1.29E+03	-3.74E+03	4.71E+03	-2.76E+03	4.62E+03	-4.05E+04	3.33E+04

Table R–87. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–88. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

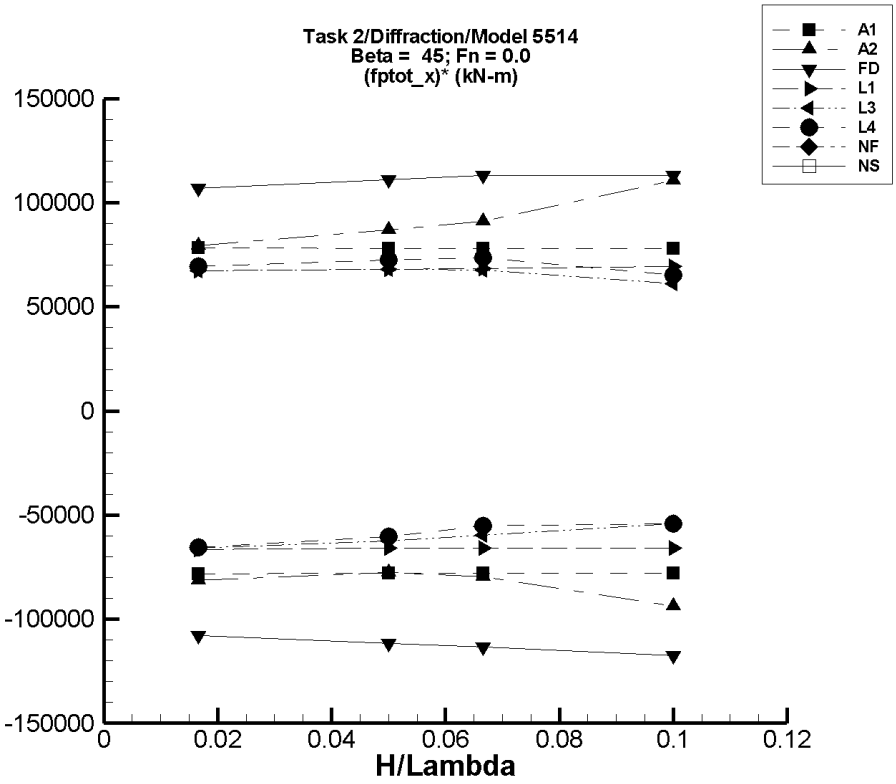

Figure R–12. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–89. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.15	-1.32E+03	1.32E+03	-1.30E+03	1.30E+03	-7.82E+04	7.83E+04
1/20	-3.45	-3.95E+03	3.94E+03	-3.90E+03	3.90E+03	-7.80E+04	7.81E+04
1/15	-4.59	-5.25E+03	5.25E+03	-5.19E+03	5.19E+03	-7.79E+04	7.80E+04
1/10	-6.90	-7.89E+03	7.89E+03	-7.80E+03	7.80E+03	-7.80E+04	7.81E+04

Table R–90. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	35.2	-2.43E+03	1.37E+03	-1.32E+03	1.36E+03	-8.14E+04	7.93E+04
1/20	9.78	-3.90E+03	4.41E+03	-3.87E+03	4.36E+03	-7.75E+04	8.69E+04
1/15	-37.2	-5.40E+03	6.28E+03	-5.35E+03	6.04E+03	-7.97E+04	9.12E+04
1/10	282.	-9.18E+03	1.53E+04	-9.09E+03	1.13E+04	-9.37E+04	1.11E+05

Table R–91. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.6	-1.84E+03	1.78E+03	-1.82E+03	1.76E+03	-1.08E+05	1.07E+05
1/20	-21.8	-5.67E+03	5.59E+03	-5.61E+03	5.53E+03	-1.12E+05	1.11E+05
1/15	-23.7	-7.67E+03	7.61E+03	-7.59E+03	7.52E+03	-1.13E+05	1.13E+05
1/10	-16.4	-1.19E+04	1.14E+04	-1.18E+04	1.13E+04	-1.17E+05	1.13E+05

Table R–92. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.16	-1.12E+03	1.12E+03	-1.11E+03	1.12E+03	-6.64E+04	6.73E+04
1/20	-21.9	-3.34E+03	3.40E+03	-3.32E+03	3.38E+03	-6.60E+04	6.81E+04
1/15	-37.6	-4.45E+03	4.55E+03	-4.43E+03	4.53E+03	-6.59E+04	6.85E+04
1/10	-81.3	-6.68E+03	6.90E+03	-6.65E+03	6.87E+03	-6.57E+04	6.95E+04

Table R–93. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-19.0	-1.12E+03	1.11E+03	-1.12E+03	1.11E+03	-6.60E+04	6.75E+04
1/20	-36.7	-3.16E+03	3.39E+03	-3.15E+03	3.37E+03	-6.23E+04	6.81E+04
1/15	-51.8	-4.04E+03	4.49E+03	-4.02E+03	4.46E+03	-5.96E+04	6.77E+04
1/10	-84.7	-5.54E+03	6.08E+03	-5.52E+03	6.04E+03	-5.43E+04	6.13E+04

Table R–94. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	28.9	-1.07E+03	1.19E+03	-1.06E+03	1.19E+03	-6.56E+04	6.94E+04
1/20	399.	-2.65E+03	4.07E+03	-2.61E+03	4.03E+03	-6.02E+04	7.26E+04
1/15	708.	-3.05E+03	5.66E+03	-2.96E+03	5.60E+03	-5.51E+04	7.34E+04
1/10	1.45E+03	-4.84E+03	8.08E+03	-3.95E+03	7.98E+03	-5.40E+04	6.53E+04

Table R–95. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–96. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

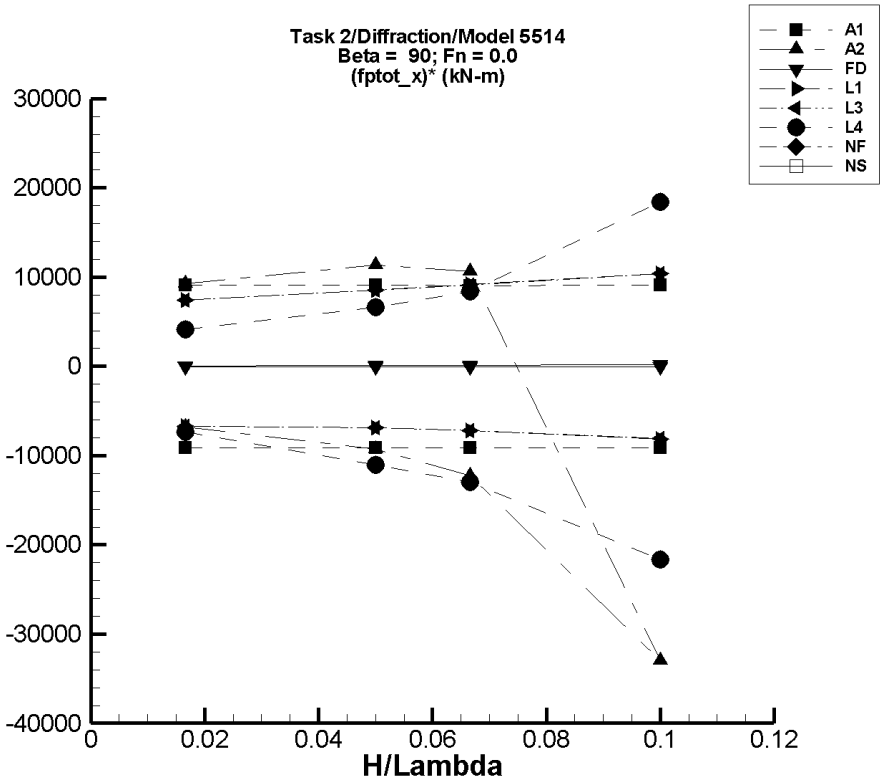

Figure R–13. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–97. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.39	-157.	153.	-154.	150.	-9.14E+03	9.10E+03
1/20	-4.17	-469.	456.	-460.	450.	-9.12E+03	9.08E+03
1/15	-5.55	-625.	608.	-612.	599.	-9.10E+03	9.07E+03
1/10	-8.33	-939.	913.	-920.	900.	-9.12E+03	9.08E+03

Table R–98. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	34.7	-1.12E+03	186.	-78.0	190.	-6.76E+03	9.30E+03
1/20	-26.7	-686.	3.01E+03	-492.	543.	-9.31E+03	1.14E+04
1/15	-38.3	-1.83E+03	664.	-853.	671.	-1.22E+04	1.06E+04
1/10	680.	-2.62E+03	-2.62E+03	-2.62E+03	-2.62E+03	-3.30E+04	-3.30E+04

Table R–99. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.5	-22.4	-20.9	-22.4	-20.9	-49.3	35.6
1/20	-19.8	-22.2	-14.3	-21.8	-14.5	-41.6	106.
1/15	-18.4	-22.4	-9.78	-21.9	-9.87	-52.4	128.
1/10	-14.9	-22.9	0.840	-22.2	0.950	-72.8	159.

Table R–100. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-5.21	-117.	119.	-117.	118.	-6.70E+03	7.41E+03
1/20	-44.7	-390.	385.	-388.	383.	-6.86E+03	8.55E+03
1/15	-79.0	-563.	536.	-560.	531.	-7.22E+03	9.16E+03
1/10	-177.	-1.00E+03	874.	-993.	865.	-8.17E+03	1.04E+04

Table R–101. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-21.1	-133.	102.	-133.	102.	-6.71E+03	7.38E+03
1/20	-59.4	-404.	369.	-402.	367.	-6.85E+03	8.52E+03
1/15	-92.7	-574.	520.	-571.	516.	-7.17E+03	9.13E+03
1/10	-186.	-1.00E+03	859.	-993.	850.	-8.07E+03	1.04E+04

Table R–102. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-7.36	-144.	77.7	-130.	61.1	-7.38E+03	4.11E+03
1/20	18.6	-589.	387.	-536.	348.	-1.11E+04	6.59E+03
1/15	10.9	-963.	630.	-857.	572.	-1.30E+04	8.41E+03
1/10	-122.	-3.76E+03	1.81E+03	-2.28E+03	1.72E+03	-2.16E+04	1.84E+04

Table R–103. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–104. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

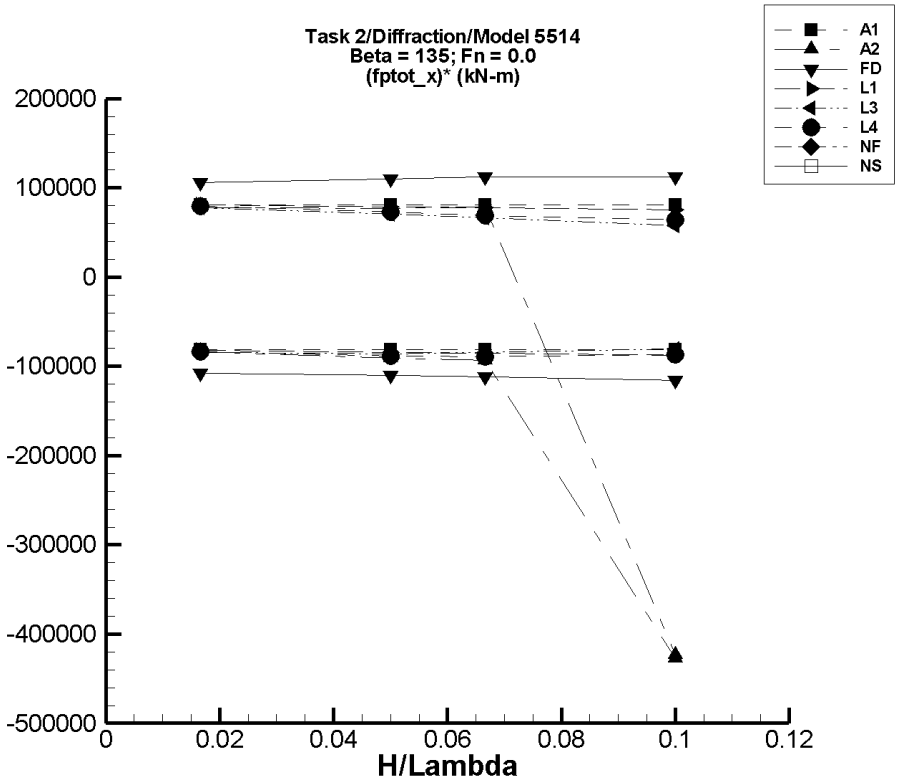

Figure R–14. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–105. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.207	-1.37E+03	1.37E+03	-1.36E+03	1.35E+03	-8.13E+04	8.11E+04
1/20	-0.619	-4.10E+03	4.09E+03	-4.05E+03	4.04E+03	-8.11E+04	8.09E+04
1/15	-0.824	-5.46E+03	5.45E+03	-5.40E+03	5.39E+03	-8.10E+04	8.08E+04
1/10	-1.24	-8.20E+03	8.18E+03	-8.11E+03	8.09E+03	-8.11E+04	8.09E+04

Table R–106. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	41.7	-2.41E+03	1.35E+03	-1.35E+03	1.33E+03	-8.34E+04	7.75E+04
1/20	14.7	-5.39E+03	3.91E+03	-4.55E+03	3.88E+03	-9.12E+04	7.72E+04
1/15	-0.407	-6.27E+03	5.33E+03	-6.20E+03	5.27E+03	-9.30E+04	7.90E+04
1/10	3.28E+04	-9.96E+03	-9.55E+03	-9.96E+03	-9.55E+03	-4.28E+05	-4.24E+05

Table R–107. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.6	-1.81E+03	1.76E+03	-1.82E+03	1.74E+03	-1.08E+05	1.06E+05
1/20	-20.1	-5.59E+03	5.54E+03	-5.54E+03	5.48E+03	-1.10E+05	1.10E+05
1/15	-18.9	-7.56E+03	7.54E+03	-7.48E+03	7.45E+03	-1.12E+05	1.12E+05
1/10	-8.93	-1.17E+04	1.13E+04	-1.16E+04	1.12E+04	-1.16E+05	1.12E+05

Table R–108. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.21	-1.38E+03	1.34E+03	-1.37E+03	1.35E+03	-8.22E+04	8.09E+04
1/20	-9.52	-4.24E+03	3.91E+03	-4.22E+03	3.93E+03	-8.43E+04	7.88E+04
1/15	-16.6	-5.73E+03	5.14E+03	-5.71E+03	5.16E+03	-8.53E+04	7.77E+04
1/10	-36.7	-8.83E+03	7.49E+03	-8.78E+03	7.51E+03	-8.75E+04	7.55E+04

Table R–109. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-17.0	-1.42E+03	1.28E+03	-1.42E+03	1.28E+03	-8.41E+04	7.81E+04
1/20	-24.0	-4.33E+03	3.52E+03	-4.31E+03	3.51E+03	-8.57E+04	7.06E+04
1/15	-30.9	-5.68E+03	4.44E+03	-5.65E+03	4.43E+03	-8.43E+04	6.69E+04
1/10	-41.9	-8.11E+03	5.77E+03	-8.07E+03	5.76E+03	-8.03E+04	5.80E+04

Table R–110. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-37.4	-1.44E+03	1.28E+03	-1.43E+03	1.29E+03	-8.34E+04	7.95E+04
1/20	-253.	-4.70E+03	3.42E+03	-4.67E+03	3.41E+03	-8.83E+04	7.32E+04
1/15	-464.	-6.53E+03	4.14E+03	-6.44E+03	4.15E+03	-8.96E+04	6.92E+04
1/10	-894.	-9.73E+03	5.51E+03	-9.60E+03	5.49E+03	-8.70E+04	6.38E+04

Table R–111. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–112. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

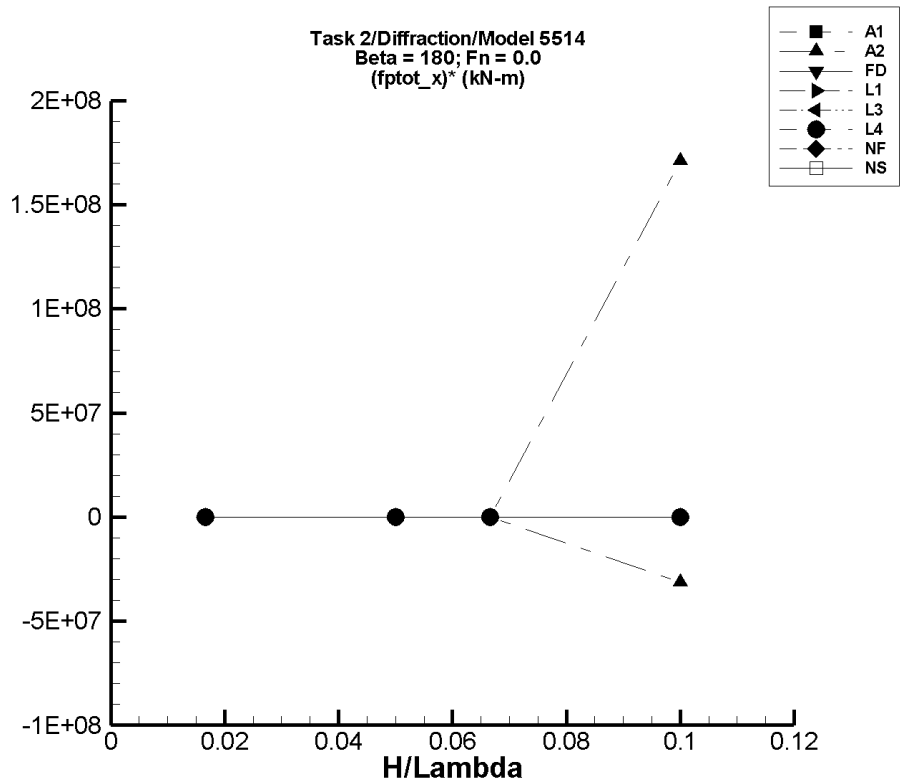

Figure R–15. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–113. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-8.51E-02	-1.05E+03	1.05E+03	-1.04E+03	1.04E+03	-6.24E+04	6.24E+04
1/20	-0.255	-3.15E+03	3.15E+03	-3.11E+03	3.11E+03	-6.23E+04	6.22E+04
1/15	-0.340	-4.20E+03	4.19E+03	-4.15E+03	4.14E+03	-6.22E+04	6.21E+04
1/10	-0.510	-6.31E+03	6.29E+03	-6.23E+03	6.22E+03	-6.23E+04	6.22E+04

Table R–114. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	50.2	-1.01E+03	1.01E+03	-1.00E+03	1.00E+03	-6.30E+04	5.70E+04
1/20	15.2	-3.66E+03	2.55E+03	-3.59E+03	2.53E+03	-7.21E+04	5.04E+04
1/15	-4.95	-5.16E+03	3.24E+03	-5.06E+03	3.22E+03	-7.58E+04	4.84E+04
1/10	1.54E+06	-8.73E+03	1.40E+08	-1.59E+06	1.86E+07	-3.13E+07	1.71E+08

Table R–115. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.4	-1.43E+03	1.33E+03	-1.43E+03	1.31E+03	-8.48E+04	8.01E+04
1/20	-16.2	-4.56E+03	4.01E+03	-4.49E+03	3.97E+03	-8.96E+04	7.98E+04
1/15	-9.50	-6.24E+03	5.36E+03	-6.12E+03	5.31E+03	-9.16E+04	7.97E+04
1/10	4.77	-9.36E+03	8.00E+03	-9.16E+03	7.94E+03	-9.17E+04	7.93E+04

Table R–116. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	7.39	-965.	970.	-961.	967.	-5.81E+04	5.75E+04
1/20	65.9	-2.87E+03	2.93E+03	-2.86E+03	2.92E+03	-5.86E+04	5.71E+04
1/15	117.	-3.82E+03	3.92E+03	-3.80E+03	3.91E+03	-5.88E+04	5.69E+04
1/10	263.	-5.70E+03	5.93E+03	-5.67E+03	5.91E+03	-5.93E+04	5.65E+04

Table R–117. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-8.55	-1.03E+03	894.	-1.03E+03	892.	-6.10E+04	5.40E+04
1/20	50.5	-3.20E+03	2.31E+03	-3.18E+03	2.31E+03	-6.46E+04	4.52E+04
1/15	104.	-4.22E+03	2.83E+03	-4.19E+03	2.83E+03	-6.44E+04	4.09E+04
1/10	256.	-5.77E+03	3.95E+03	-5.72E+03	3.94E+03	-5.97E+04	3.69E+04

Table R–118. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-35.1	-1.04E+03	923.	-1.04E+03	915.	-6.01E+04	5.70E+04
1/20	-212.	-3.43E+03	2.55E+03	-3.36E+03	2.46E+03	-6.29E+04	5.35E+04
1/15	-369.	-4.73E+03	3.16E+03	-4.68E+03	3.05E+03	-6.47E+04	5.13E+04
1/10	-571.	-8.21E+03	4.62E+03	-6.73E+03	4.33E+03	-6.16E+04	4.90E+04

Table R–119. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–120. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

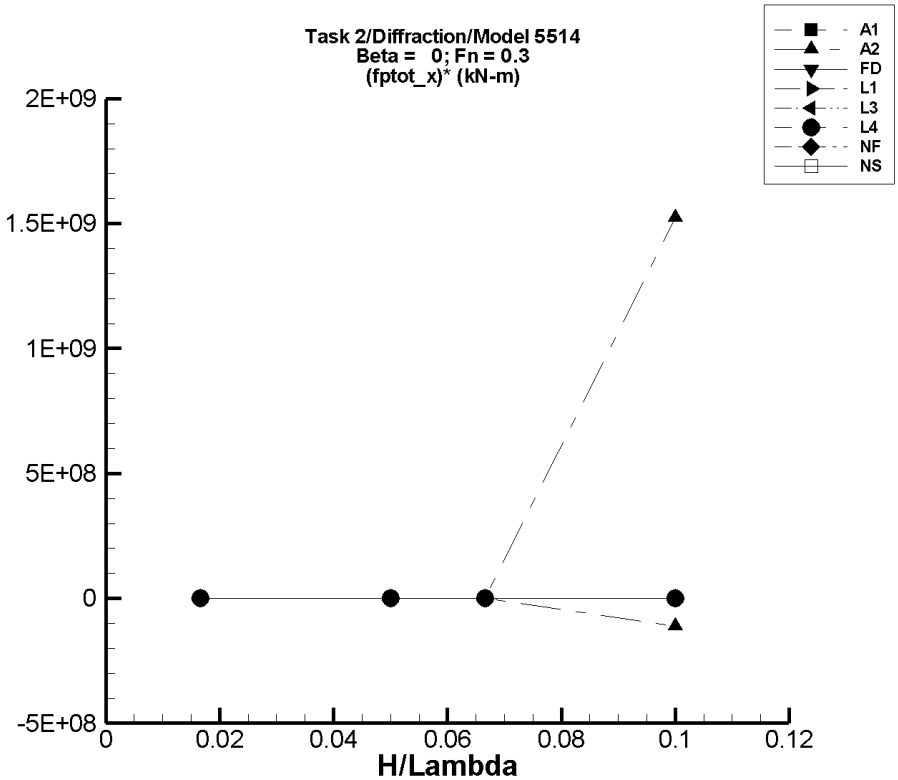

Figure R–16. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–121. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	0.893	-700.	707.	-695.	700.	-4.18E+04	4.19E+04
1/20	2.67	-2.09E+03	2.11E+03	-2.08E+03	2.09E+03	-4.17E+04	4.18E+04
1/15	3.56	-2.79E+03	2.81E+03	-2.77E+03	2.79E+03	-4.16E+04	4.18E+04
1/10	5.34	-4.19E+03	4.23E+03	-4.16E+03	4.19E+03	-4.17E+04	4.18E+04

Table R–122. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	48.1	-1.00E+03	777.	-705.	770.	-4.52E+04	4.33E+04
1/20	6.27	-4.89E+03	2.30E+03	-2.87E+03	2.29E+03	-5.75E+04	4.58E+04
1/15	-9.60	-3.74E+03	3.20E+03	-3.67E+03	3.15E+03	-5.49E+04	4.74E+04
1/10	3.80E+06	-6.29E+03	6.12E+08	-7.30E+06	1.56E+08	-1.11E+08	1.52E+09

Table R–123. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-18.2	-1.54E+03	1.44E+03	-1.54E+03	1.44E+03	-9.15E+04	8.77E+04
1/20	-7.62	-4.89E+03	4.37E+03	-4.89E+03	4.37E+03	-9.76E+04	8.75E+04
1/15	0.601	-6.66E+03	5.83E+03	-6.65E+03	5.83E+03	-9.98E+04	8.74E+04
1/10	20.6	-9.97E+03	8.71E+03	-9.96E+03	8.71E+03	-9.98E+04	8.69E+04

Table R–124. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-318.	-1.08E+03	451.	-1.08E+03	451.	-4.60E+04	4.61E+04
1/20	-210.	-2.49E+03	2.11E+03	-2.49E+03	2.11E+03	-4.57E+04	4.64E+04
1/15	-116.	-3.15E+03	2.99E+03	-3.15E+03	2.99E+03	-4.55E+04	4.65E+04
1/10	149.	-4.38E+03	4.83E+03	-4.37E+03	4.83E+03	-4.52E+04	4.68E+04

Table R–125. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-334.	-1.15E+03	454.	-1.15E+03	454.	-4.87E+04	4.72E+04
1/20	-226.	-2.65E+03	2.09E+03	-2.65E+03	2.09E+03	-4.85E+04	4.63E+04
1/15	-132.	-3.24E+03	2.87E+03	-3.24E+03	2.87E+03	-4.66E+04	4.50E+04
1/10	135.	-3.79E+03	3.96E+03	-3.78E+03	3.96E+03	-3.92E+04	3.82E+04

Table R–126. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-337.	-1.32E+03	893.	-1.31E+03	866.	-5.85E+04	7.22E+04
1/20	-323.	-3.59E+03	2.35E+03	-3.56E+03	2.32E+03	-6.47E+04	5.28E+04
1/15	-294.	-4.79E+03	3.08E+03	-4.71E+03	3.06E+03	-6.62E+04	5.03E+04
1/10	83.4	-7.14E+03	5.08E+03	-6.11E+03	5.03E+03	-6.19E+04	4.95E+04

Table R–127. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–128. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

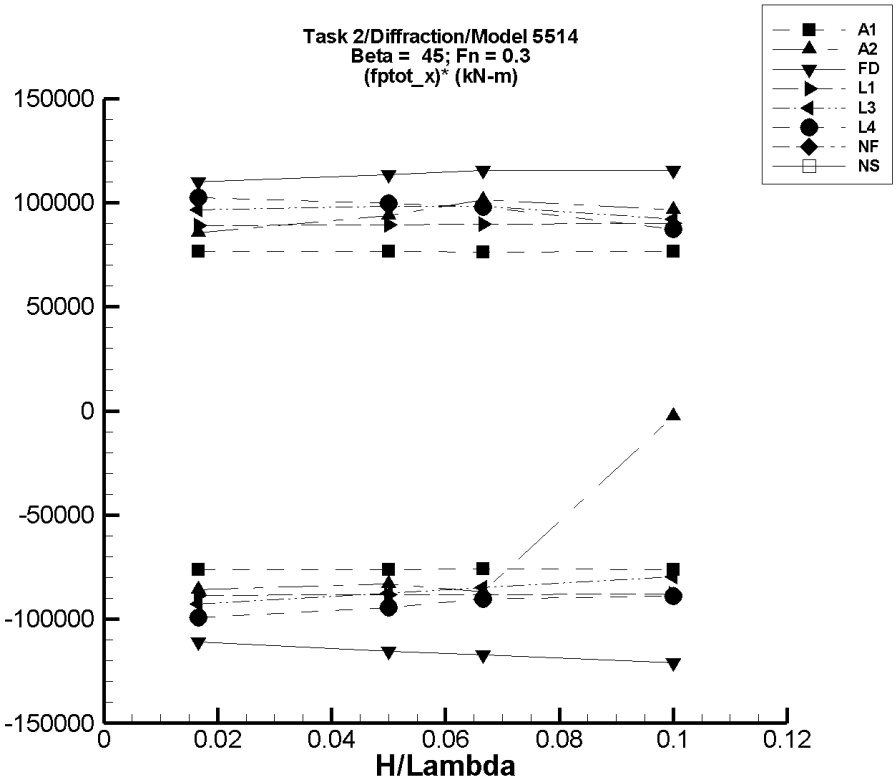

Figure R–17. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–129. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	3.15	-1.27E+03	1.29E+03	-1.27E+03	1.28E+03	-7.63E+04	7.68E+04
1/20	9.42	-3.80E+03	3.85E+03	-3.80E+03	3.84E+03	-7.61E+04	7.65E+04
1/15	12.5	-5.07E+03	5.12E+03	-5.05E+03	5.11E+03	-7.60E+04	7.64E+04
1/10	18.8	-7.61E+03	7.69E+03	-7.59E+03	7.67E+03	-7.61E+04	7.65E+04

Table R–130. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	46.5	-2.49E+03	1.48E+03	-1.39E+03	1.47E+03	-8.60E+04	8.56E+04
1/20	27.9	-4.14E+03	4.74E+03	-4.13E+03	4.72E+03	-8.31E+04	9.39E+04
1/15	-38.8	-5.84E+03	6.77E+03	-5.83E+03	6.72E+03	-8.68E+04	1.01E+05
1/10	-9.95E+03	-1.05E+04	-327.	-1.02E+04	-294.	-2.40E+03	9.66E+04

Table R–131. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-24.0	-1.88E+03	1.81E+03	-1.87E+03	1.81E+03	-1.11E+05	1.10E+05
1/20	-28.2	-5.80E+03	5.67E+03	-5.79E+03	5.65E+03	-1.15E+05	1.14E+05
1/15	-31.2	-7.85E+03	7.68E+03	-7.83E+03	7.66E+03	-1.17E+05	1.15E+05
1/10	-26.2	-1.22E+04	1.15E+04	-1.21E+04	1.15E+04	-1.21E+05	1.15E+05

Table R–132. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-327.	-1.81E+03	1.16E+03	-1.80E+03	1.16E+03	-8.87E+04	8.89E+04
1/20	-285.	-4.71E+03	4.19E+03	-4.70E+03	4.18E+03	-8.84E+04	8.93E+04
1/15	-248.	-6.14E+03	5.73E+03	-6.13E+03	5.72E+03	-8.82E+04	8.96E+04
1/10	-143.	-8.95E+03	8.87E+03	-8.95E+03	8.86E+03	-8.80E+04	9.00E+04

Table R–133. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-342.	-1.89E+03	1.27E+03	-1.89E+03	1.27E+03	-9.29E+04	9.67E+04
1/20	-300.	-4.67E+03	4.63E+03	-4.67E+03	4.62E+03	-8.74E+04	9.85E+04
1/15	-264.	-5.91E+03	6.30E+03	-5.91E+03	6.29E+03	-8.47E+04	9.83E+04
1/10	-151.	-8.13E+03	9.07E+03	-8.13E+03	9.06E+03	-7.98E+04	9.21E+04

Table R–134. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-347.	-2.01E+03	1.36E+03	-2.00E+03	1.36E+03	-9.93E+04	1.02E+05
1/20	-266.	-5.03E+03	4.73E+03	-4.99E+03	4.72E+03	-9.45E+04	9.98E+04
1/15	-160.	-6.26E+03	6.39E+03	-6.18E+03	6.38E+03	-9.03E+04	9.81E+04
1/10	277.	-1.03E+04	9.05E+03	-8.61E+03	8.99E+03	-8.89E+04	8.72E+04

Table R–135. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–136. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

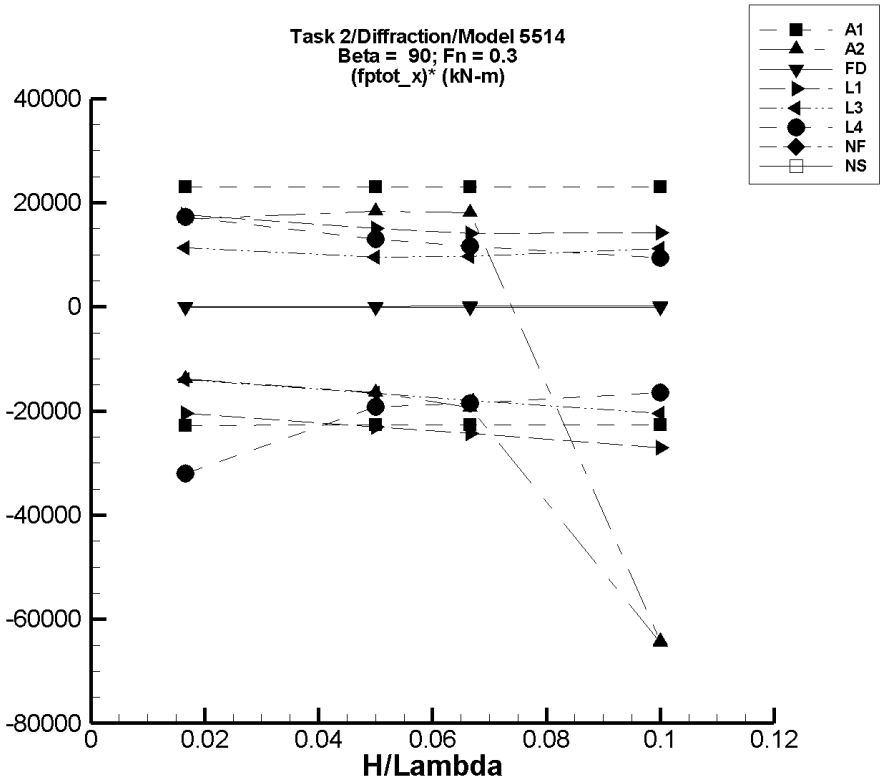

Figure R–18. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–137. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	0.649	-384.	390.	-379.	386.	-2.28E+04	2.31E+04
1/20	1.94	-1.15E+03	1.17E+03	-1.13E+03	1.15E+03	-2.27E+04	2.30E+04
1/15	2.58	-1.53E+03	1.55E+03	-1.51E+03	1.54E+03	-2.27E+04	2.30E+04
1/10	3.88	-2.30E+03	2.33E+03	-2.27E+03	2.31E+03	-2.27E+04	2.30E+04

Table R–138. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	36.6	-1.00E+03	315.	-195.	318.	-1.39E+04	1.69E+04
1/20	-20.8	-861.	3.07E+03	-844.	896.	-1.65E+04	1.83E+04
1/15	-30.5	-2.30E+03	1.17E+03	-1.32E+03	1.18E+03	-1.93E+04	1.81E+04
1/10	2.93E+03	-3.51E+03	-3.50E+03	-3.51E+03	-3.50E+03	-6.45E+04	-6.43E+04

Table R–139. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-21.5	-22.4	-20.9	-22.4	-20.9	-49.3	35.7
1/20	-19.8	-22.2	-14.3	-21.8	-14.5	-41.6	106.
1/15	-18.4	-22.4	-9.78	-21.9	-9.87	-52.4	128.
1/10	-14.9	-22.9	0.842	-22.2	0.950	-72.8	159.

Table R–140. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-333.	-675.	-36.7	-673.	-37.5	-2.04E+04	1.77E+04
1/20	-343.	-1.50E+03	413.	-1.49E+03	412.	-2.30E+04	1.51E+04
1/15	-351.	-1.99E+03	593.	-1.98E+03	591.	-2.44E+04	1.41E+04
1/10	-374.	-3.10E+03	1.05E+03	-3.08E+03	1.05E+03	-2.70E+04	1.42E+04

Table R–141. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-349.	-583.	-160.	-582.	-160.	-1.40E+04	1.13E+04
1/20	-357.	-1.19E+03	119.	-1.19E+03	117.	-1.66E+04	9.50E+03
1/15	-364.	-1.57E+03	288.	-1.56E+03	284.	-1.79E+04	9.72E+03
1/10	-383.	-2.45E+03	750.	-2.43E+03	738.	-2.04E+04	1.12E+04

Table R–142. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-375.	-918.	-72.5	-908.	-86.2	-3.20E+04	1.73E+04
1/20	-596.	-1.60E+03	124.	-1.56E+03	52.7	-1.93E+04	1.30E+04
1/15	-706.	-1.96E+03	204.	-1.94E+03	70.6	-1.85E+04	1.17E+04
1/10	-663.	-2.67E+03	458.	-2.31E+03	277.	-1.65E+04	9.40E+03

Table R–143. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–144. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

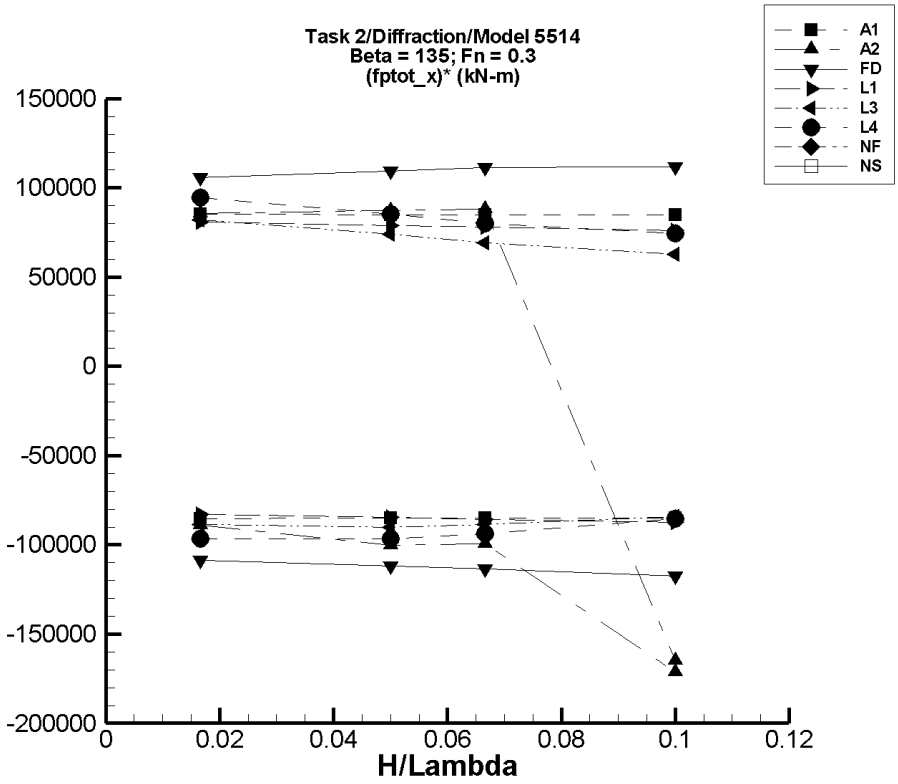

Figure R–19. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–145. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.455	-1.46E+03	1.46E+03	-1.42E+03	1.42E+03	-8.53E+04	8.52E+04
1/20	-1.36	-4.37E+03	4.36E+03	-4.26E+03	4.25E+03	-8.51E+04	8.49E+04
1/15	-1.81	-5.82E+03	5.80E+03	-5.67E+03	5.65E+03	-8.50E+04	8.48E+04
1/10	-2.72	-8.75E+03	8.71E+03	-8.51E+03	8.49E+03	-8.51E+04	8.49E+04

Table R–146. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	49.8	-1.47E+03	1.51E+03	-1.43E+03	1.47E+03	-8.88E+04	8.55E+04
1/20	11.4	-5.83E+03	4.47E+03	-4.99E+03	4.37E+03	-1.00E+05	8.72E+04
1/15	-14.9	-6.83E+03	6.08E+03	-6.64E+03	5.84E+03	-9.94E+04	8.79E+04
1/10	6.82E+03	-1.03E+04	-9.67E+03	-1.03E+04	-9.67E+03	-1.71E+05	-1.65E+05

Table R–147. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-20.7	-1.85E+03	1.79E+03	-1.83E+03	1.74E+03	-1.09E+05	1.06E+05
1/20	-15.9	-5.72E+03	5.61E+03	-5.60E+03	5.46E+03	-1.12E+05	1.10E+05
1/15	-12.0	-7.74E+03	7.62E+03	-7.57E+03	7.42E+03	-1.13E+05	1.11E+05
1/10	7.02	-1.20E+04	1.14E+04	-1.17E+04	1.12E+04	-1.17E+05	1.12E+05

Table R–148. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-324.	-1.72E+03	1.03E+03	-1.70E+03	1.02E+03	-8.28E+04	8.07E+04
1/20	-271.	-4.55E+03	3.71E+03	-4.50E+03	3.68E+03	-8.47E+04	7.89E+04
1/15	-226.	-5.99E+03	5.02E+03	-5.93E+03	4.98E+03	-8.56E+04	7.80E+04
1/10	-99.0	-8.95E+03	7.58E+03	-8.85E+03	7.53E+03	-8.75E+04	7.62E+04

Table R–149. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-340.	-1.83E+03	1.04E+03	-1.82E+03	1.03E+03	-8.87E+04	8.19E+04
1/20	-287.	-4.84E+03	3.43E+03	-4.79E+03	3.41E+03	-9.01E+04	7.38E+04
1/15	-243.	-6.20E+03	4.41E+03	-6.15E+03	4.38E+03	-8.86E+04	6.94E+04
1/10	-112.	-8.59E+03	6.19E+03	-8.51E+03	6.15E+03	-8.40E+04	6.26E+04

Table R–150. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-397.	-2.02E+03	1.20E+03	-2.01E+03	1.18E+03	-9.68E+04	9.45E+04
1/20	-696.	-5.65E+03	3.61E+03	-5.52E+03	3.57E+03	-9.66E+04	8.53E+04
1/15	-876.	-7.21E+03	4.50E+03	-7.13E+03	4.45E+03	-9.38E+04	7.99E+04
1/10	-963.	-9.63E+03	6.64E+03	-9.51E+03	6.49E+03	-8.55E+04	7.45E+04

Table R–151. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–152. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

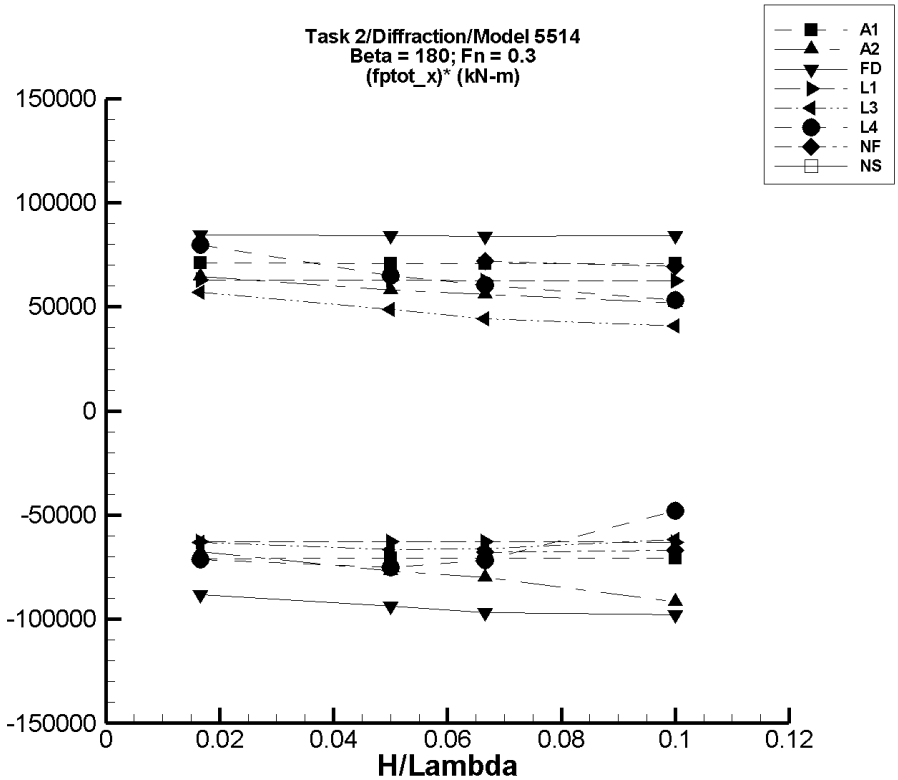

Figure R–20. Minimum and Maximum of $(F_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–153. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	1.55	-1.22E+03	1.23E+03	-1.18E+03	1.19E+03	-7.10E+04	7.11E+04
1/20	4.65	-3.65E+03	3.67E+03	-3.54E+03	3.55E+03	-7.08E+04	7.09E+04
1/15	6.19	-4.86E+03	4.89E+03	-4.71E+03	4.73E+03	-7.07E+04	7.08E+04
1/10	9.30	-7.31E+03	7.35E+03	-7.07E+03	7.10E+03	-7.08E+04	7.09E+04

Table R–154. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	36.3	-1.58E+03	1.15E+03	-1.09E+03	1.11E+03	-6.77E+04	6.47E+04
1/20	32.7	-4.00E+03	2.98E+03	-3.81E+03	2.93E+03	-7.68E+04	5.80E+04
1/15	20.2	-5.61E+03	3.82E+03	-5.30E+03	3.76E+03	-7.98E+04	5.61E+04
1/10	916.	-9.31E+03	1.55E+04	-8.24E+03	6.09E+03	-9.15E+04	5.17E+04

Table R–155. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-27.0	-1.54E+03	1.43E+03	-1.50E+03	1.38E+03	-8.84E+04	8.46E+04
1/20	-36.7	-4.89E+03	4.29E+03	-4.72E+03	4.17E+03	-9.36E+04	8.40E+04
1/15	-41.0	-6.68E+03	5.72E+03	-6.49E+03	5.56E+03	-9.67E+04	8.40E+04
1/10	-47.8	-1.00E+04	8.58E+03	-9.82E+03	8.38E+03	-9.77E+04	8.43E+04

Table R–156. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-320.	-1.38E+03	741.	-1.36E+03	728.	-6.27E+04	6.29E+04
1/20	-212.	-3.39E+03	2.96E+03	-3.35E+03	2.93E+03	-6.28E+04	6.27E+04
1/15	-116.	-4.36E+03	4.11E+03	-4.31E+03	4.06E+03	-6.29E+04	6.27E+04
1/10	161.	-6.22E+03	6.49E+03	-6.14E+03	6.42E+03	-6.30E+04	6.26E+04

Table R–157. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-336.	-1.40E+03	624.	-1.39E+03	615.	-6.32E+04	5.71E+04
1/20	-226.	-3.61E+03	2.23E+03	-3.55E+03	2.21E+03	-6.65E+04	4.87E+04
1/15	-126.	-4.64E+03	2.86E+03	-4.55E+03	2.84E+03	-6.63E+04	4.44E+04
1/10	162.	-6.17E+03	4.29E+03	-6.01E+03	4.24E+03	-6.18E+04	4.08E+04

Table R–158. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-412.	-1.66E+03	946.	-1.60E+03	919.	-7.13E+04	7.99E+04
1/20	-666.	-4.55E+03	2.66E+03	-4.43E+03	2.58E+03	-7.53E+04	6.49E+04
1/15	-818.	-5.76E+03	3.42E+03	-5.61E+03	3.20E+03	-7.18E+04	6.03E+04
1/10	-199.	-5.74E+03	6.43E+03	-4.99E+03	5.11E+03	-4.79E+04	5.31E+04

Table R–159. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_x^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_x^{ptot} Min. (kN)	Unfiltered F_x^{ptot} Max. (kN)	Filtered F_x^{ptot} Min. (kN)	Filtered F_x^{ptot} Max. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{ptot}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	-1.06E+03	-4.70E+03	2.74E+03	-4.55E+03	2.53E+03	-6.97E+04	7.19E+04
1/15	-1.47E+03	-6.13E+03	3.55E+03	-6.01E+03	3.32E+03	-6.80E+04	7.19E+04
1/10	-2.30E+03	-9.10E+03	4.69E+03	-8.97E+03	4.65E+03	-6.68E+04	6.95E+04

Table R–160. Minimum and Maximum of F_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

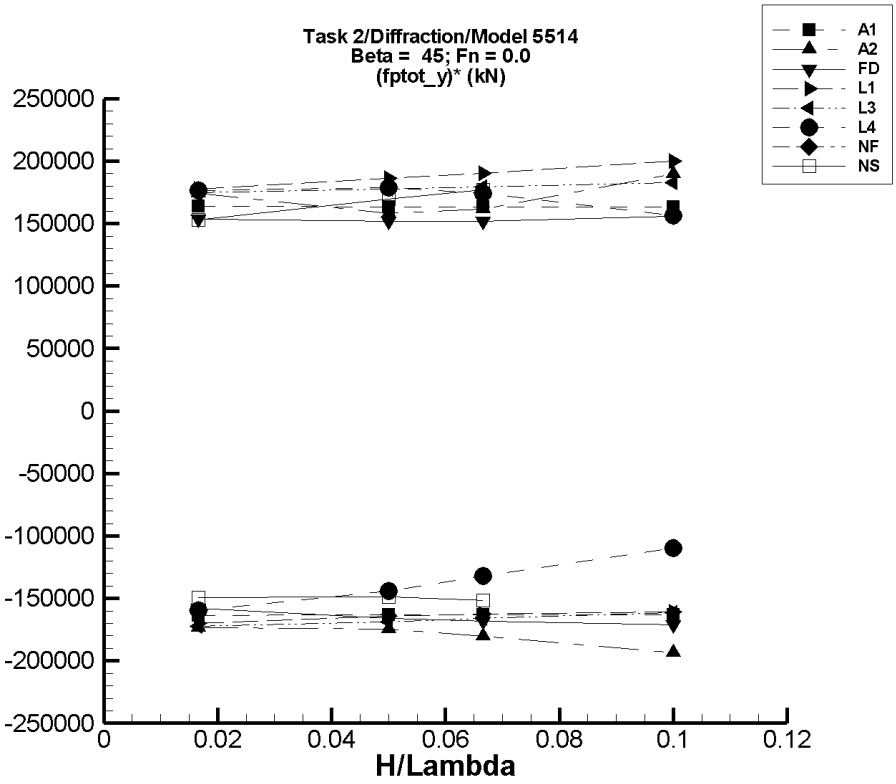

Figure R–21. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–161. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.31	-2.76E+03	2.77E+03	-2.73E+03	2.73E+03	-1.64E+05	1.64E+05
1/20	-9.89	-8.25E+03	8.28E+03	-8.16E+03	8.17E+03	-1.63E+05	1.64E+05
1/15	-13.2	-1.10E+04	1.10E+04	-1.09E+04	1.09E+04	-1.63E+05	1.63E+05
1/10	-19.8	-1.65E+04	1.66E+04	-1.63E+04	1.63E+04	-1.63E+05	1.64E+05

Table R–162. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.21	-2.94E+03	2.94E+03	-2.89E+03	2.90E+03	-1.74E+05	1.74E+05
1/20	54.2	-9.05E+03	8.03E+03	-8.66E+03	7.97E+03	-1.74E+05	1.58E+05
1/15	35.6	-1.22E+04	1.73E+04	-1.20E+04	1.08E+04	-1.80E+05	1.62E+05
1/10	-406.	-2.10E+04	3.59E+04	-1.98E+04	1.86E+04	-1.94E+05	1.90E+05

Table R–163. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	1.08E-02	-2.66E+03	2.58E+03	-2.63E+03	2.55E+03	-1.58E+05	1.53E+05
1/20	-2.21	-8.39E+03	7.66E+03	-8.29E+03	7.59E+03	-1.66E+05	1.52E+05
1/15	-5.56	-1.13E+04	1.02E+04	-1.12E+04	1.01E+04	-1.68E+05	1.52E+05
1/10	-1.79	-1.73E+04	1.57E+04	-1.71E+04	1.56E+04	-1.71E+05	1.56E+05

Table R–164. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-139.	-2.98E+03	2.83E+03	-2.97E+03	2.82E+03	-1.70E+05	1.77E+05
1/20	-1.25E+03	-9.50E+03	8.10E+03	-9.47E+03	8.05E+03	-1.64E+05	1.86E+05
1/15	-2.22E+03	-1.31E+04	1.05E+04	-1.31E+04	1.05E+04	-1.62E+05	1.90E+05
1/10	-4.99E+03	-2.11E+04	1.51E+04	-2.11E+04	1.50E+04	-1.61E+05	2.00E+05

Table R–165. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-139.	-3.02E+03	2.79E+03	-3.01E+03	2.78E+03	-1.72E+05	1.75E+05
1/20	-1.25E+03	-9.71E+03	7.68E+03	-9.68E+03	7.64E+03	-1.69E+05	1.78E+05
1/15	-2.22E+03	-1.33E+04	9.78E+03	-1.33E+04	9.72E+03	-1.66E+05	1.79E+05
1/10	-4.98E+03	-2.12E+04	1.34E+04	-2.11E+04	1.33E+04	-1.61E+05	1.83E+05

Table R–166. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	97.4	-2.67E+03	3.09E+03	-2.56E+03	3.04E+03	-1.60E+05	1.76E+05
1/20	808.	-6.87E+03	1.02E+04	-6.39E+03	9.75E+03	-1.44E+05	1.79E+05
1/15	1.52E+03	-7.58E+03	1.39E+04	-7.31E+03	1.31E+04	-1.32E+05	1.74E+05
1/10	4.29E+03	-2.38E+04	2.38E+04	-6.71E+03	1.99E+04	-1.10E+05	1.56E+05

Table R–167. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–168. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	144.	-2.37E+03	2.72E+03	-2.34E+03	2.70E+03	-1.49E+05	1.53E+05
1/20	1.21E+03	-6.32E+03	9.78E+03	-6.22E+03	9.69E+03	-1.49E+05	1.70E+05
1/15	2.25E+03	-7.96E+03	1.41E+04	-7.85E+03	1.40E+04	-1.51E+05	1.77E+05
1/10	—	—	—	—	—	—	—

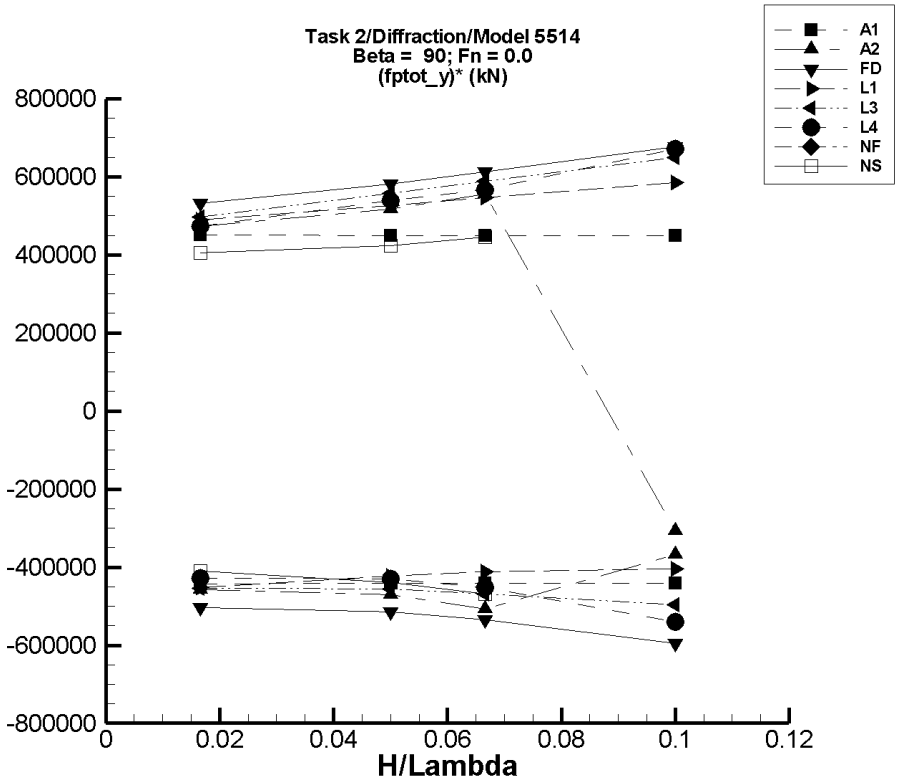

Figure R–22. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–169. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-6.60	-7.48E+03	7.50E+03	-7.39E+03	7.50E+03	-4.43E+05	4.51E+05
1/20	-19.7	-2.24E+04	2.24E+04	-2.21E+04	2.24E+04	-4.42E+05	4.49E+05
1/15	-26.3	-2.98E+04	2.99E+04	-2.95E+04	2.99E+04	-4.41E+05	4.49E+05
1/10	-39.5	-4.47E+04	4.49E+04	-4.42E+04	4.49E+04	-4.42E+05	4.49E+05

Table R–170. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-4.59	-7.73E+03	7.98E+03	-7.64E+03	7.87E+03	-4.58E+05	4.72E+05
1/20	-30.1	-2.38E+04	3.28E+04	-2.36E+04	2.58E+04	-4.71E+05	5.17E+05
1/15	-27.2	-3.45E+04	3.76E+04	-3.39E+04	3.70E+04	-5.08E+05	5.55E+05
1/10	5.11E+04	1.43E+04	2.04E+04	1.43E+04	2.04E+04	-3.68E+05	-3.06E+05

Table R–171. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.681	-8.48E+03	8.94E+03	-8.39E+03	8.87E+03	-5.04E+05	5.32E+05
1/20	-14.7	-2.61E+04	2.95E+04	-2.58E+04	2.91E+04	-5.15E+05	5.81E+05
1/15	-29.9	-3.60E+04	4.15E+04	-3.56E+04	4.08E+04	-5.34E+05	6.13E+05
1/10	-59.3	-5.93E+04	6.90E+04	-5.96E+04	6.76E+04	-5.95E+05	6.76E+05

Table R–172. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-303.	-7.88E+03	7.88E+03	-7.85E+03	7.87E+03	-4.53E+05	4.90E+05
1/20	-2.70E+03	-2.39E+04	2.38E+04	-2.38E+04	2.36E+04	-4.23E+05	5.27E+05
1/15	-4.80E+03	-3.23E+04	3.18E+04	-3.23E+04	3.16E+04	-4.12E+05	5.46E+05
1/10	-1.08E+04	-5.13E+04	4.81E+04	-5.12E+04	4.77E+04	-4.04E+05	5.85E+05

Table R–173. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-303.	-7.90E+03	8.01E+03	-7.87E+03	7.97E+03	-4.54E+05	4.96E+05
1/20	-2.70E+03	-2.56E+04	2.53E+04	-2.55E+04	2.52E+04	-4.56E+05	5.57E+05
1/15	-4.78E+03	-3.62E+04	3.47E+04	-3.60E+04	3.45E+04	-4.68E+05	5.89E+05
1/10	-1.07E+04	-6.07E+04	5.47E+04	-6.03E+04	5.42E+04	-4.96E+05	6.49E+05

Table R–174. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	177.	-7.08E+03	8.35E+03	-6.95E+03	8.06E+03	-4.28E+05	4.73E+05
1/20	1.93E+03	-2.02E+04	2.93E+04	-1.96E+04	2.89E+04	-4.31E+05	5.39E+05
1/15	3.65E+03	-2.72E+04	4.29E+04	-2.65E+04	4.14E+04	-4.52E+05	5.67E+05
1/10	9.55E+03	-1.04E+05	7.97E+04	-4.45E+04	7.66E+04	-5.41E+05	6.71E+05

Table R–175. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–176. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	222.	-6.69E+03	7.05E+03	-6.61E+03	6.96E+03	-4.10E+05	4.04E+05
1/20	1.86E+03	-2.06E+04	2.33E+04	-2.01E+04	2.30E+04	-4.40E+05	4.22E+05
1/15	3.40E+03	-2.83E+04	3.33E+04	-2.78E+04	3.31E+04	-4.68E+05	4.46E+05
1/10	—	—	—	—	—	—	—

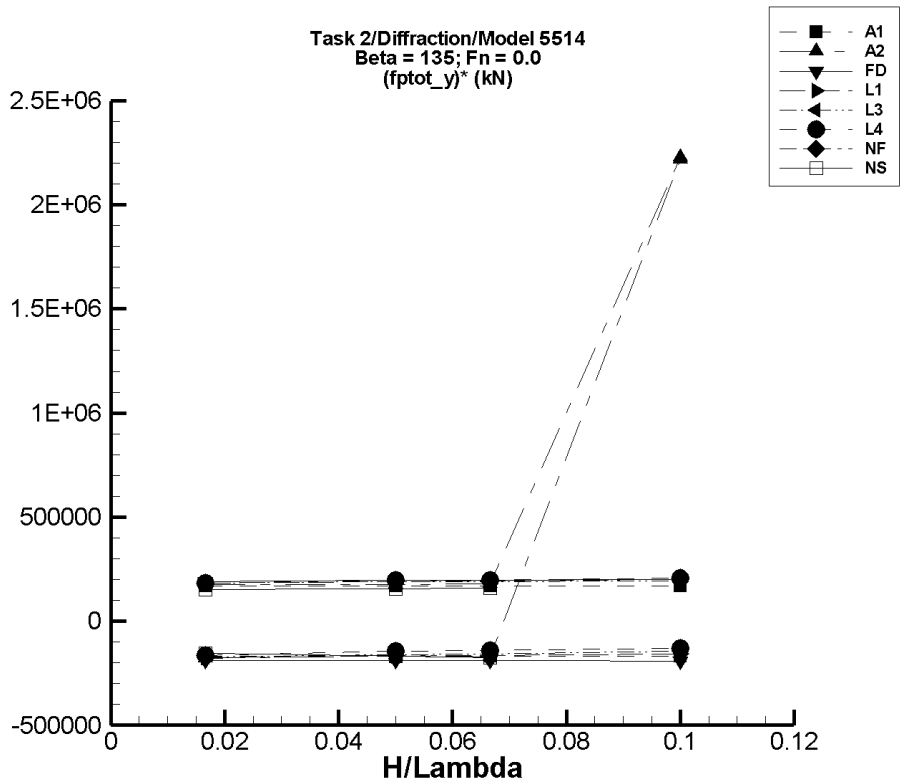

Figure R–23. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–177. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered F_y^{ptot}		Filtered F_y^{ptot}		Filtered $\left(F_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.93	-2.83E+03	2.83E+03	-2.80E+03	2.80E+03	-1.68E+05	1.68E+05
1/20	-8.76	-8.48E+03	8.48E+03	-8.38E+03	8.39E+03	-1.67E+05	1.68E+05
1/15	-11.7	-1.13E+04	1.13E+04	-1.12E+04	1.12E+04	-1.67E+05	1.68E+05
1/10	-17.5	-1.70E+04	1.70E+04	-1.68E+04	1.68E+04	-1.67E+05	1.68E+05

Table R–178. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered F_y^{ptot}		Filtered F_y^{ptot}		Filtered $\left(F_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.80	-2.99E+03	3.15E+03	-2.95E+03	2.96E+03	-1.77E+05	1.78E+05
1/20	-75.5	-8.44E+03	8.90E+03	-8.35E+03	8.73E+03	-1.65E+05	1.76E+05
1/15	-9.60	-1.16E+04	1.21E+04	-1.13E+04	1.19E+04	-1.70E+05	1.79E+05
1/10	-2.07E+05	1.49E+04	1.58E+04	1.49E+04	1.58E+04	2.22E+06	2.23E+06

Table R–179. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\text{ptot}} \rangle$	Unfiltered F_y^{ptot}		Filtered F_y^{ptot}		Filtered $\left(F_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.72E-02	-3.17E+03	3.22E+03	-3.13E+03	3.18E+03	-1.88E+05	1.91E+05
1/20	0.377	-9.57E+03	9.92E+03	-9.47E+03	9.81E+03	-1.89E+05	1.96E+05
1/15	0.507	-1.28E+04	1.33E+04	-1.27E+04	1.32E+04	-1.90E+05	1.98E+05
1/10	-5.55	-1.94E+04	2.04E+04	-1.92E+04	2.02E+04	-1.92E+05	2.02E+05

Table R–180. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-139.	-3.05E+03	2.90E+03	-3.04E+03	2.88E+03	-1.74E+05	1.81E+05
1/20	-1.25E+03	-9.64E+03	8.25E+03	-9.61E+03	8.21E+03	-1.67E+05	1.89E+05
1/15	-2.23E+03	-1.32E+04	1.07E+04	-1.32E+04	1.06E+04	-1.64E+05	1.93E+05
1/10	-5.01E+03	-2.10E+04	1.52E+04	-2.09E+04	1.51E+04	-1.59E+05	2.01E+05

Table R–181. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-139.	-3.02E+03	2.92E+03	-3.01E+03	2.91E+03	-1.72E+05	1.83E+05
1/20	-1.25E+03	-9.36E+03	8.24E+03	-9.33E+03	8.20E+03	-1.62E+05	1.89E+05
1/15	-2.23E+03	-1.27E+04	1.05E+04	-1.27E+04	1.05E+04	-1.56E+05	1.90E+05
1/10	-5.01E+03	-1.95E+04	1.44E+04	-1.95E+04	1.42E+04	-1.45E+05	1.93E+05

Table R–182. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	79.2	-2.74E+03	3.24E+03	-2.65E+03	3.13E+03	-1.64E+05	1.83E+05
1/20	756.	-6.55E+03	1.09E+04	-6.36E+03	1.05E+04	-1.42E+05	1.96E+05
1/15	1.47E+03	-8.31E+03	1.50E+04	-7.94E+03	1.46E+04	-1.41E+05	1.97E+05
1/10	4.04E+03	-2.24E+04	2.59E+04	-8.86E+03	2.48E+04	-1.29E+05	2.07E+05

Table R–183. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–184. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	155.	-2.44E+03	2.73E+03	-2.41E+03	2.70E+03	-1.54E+05	1.53E+05
1/20	1.31E+03	-7.20E+03	9.25E+03	-7.08E+03	9.10E+03	-1.68E+05	1.56E+05
1/15	2.41E+03	-9.41E+03	1.30E+04	-9.26E+03	1.30E+04	-1.75E+05	1.59E+05
1/10	—	—	—	—	—	—	—

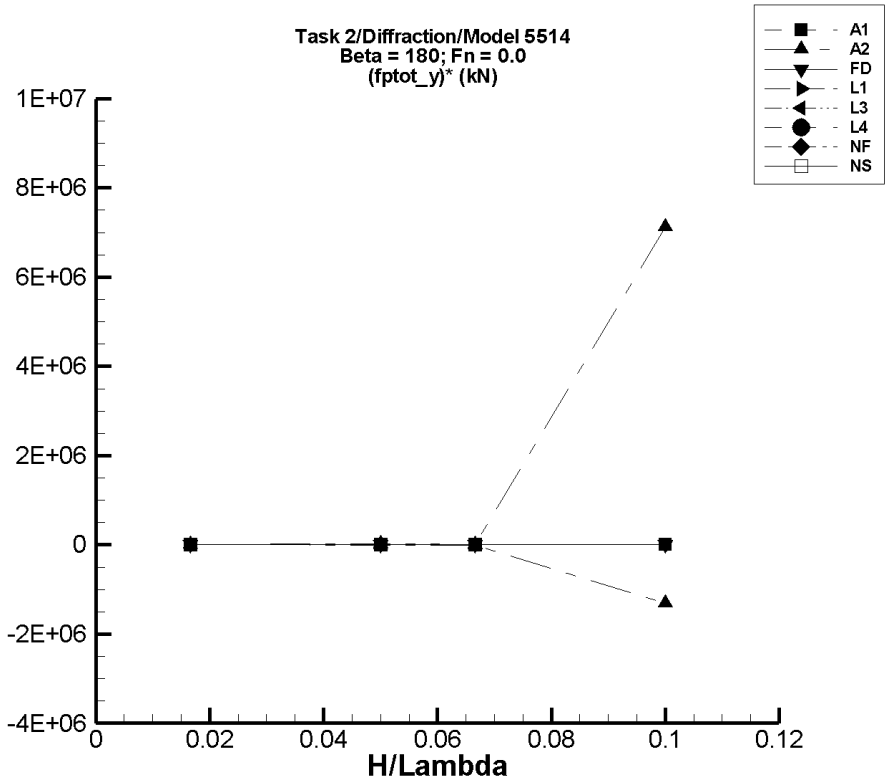

Figure R–24. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–185. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-2.22E-03	-0.553	0.566	-0.546	0.566	-32.6	34.1
1/20	-6.65E-03	-1.65	1.69	-1.63	1.69	-32.5	34.0
1/15	-8.86E-03	-2.20	2.26	-2.18	2.25	-32.5	33.9
1/10	-1.33E-02	-3.31	3.39	-3.27	3.38	-32.5	34.0

Table R–186. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-2.23E-03	-0.553	0.566	-0.546	0.566	-32.6	34.1
1/20	37.0	-1.65	6.27E+03	-71.6	837.	-2.17E+03	1.60E+04
1/15	-77.9	-7.24E+03	20.4	-982.	82.4	-1.36E+04	2.40E+03
1/10	6.46E+04	-6.18E+04	5.77E+06	-6.57E+04	7.76E+05	-1.30E+06	7.12E+06

Table R–187. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.27E-05	-2.96E-03	1.37E-03	-4.42E-04	1.76E-04	-2.46E-02	1.25E-02
1/20	-5.74E-05	-8.76E-03	5.17E-03	-1.34E-03	8.39E-04	-2.56E-02	1.79E-02
1/15	-6.04E-05	-1.17E-02	7.21E-03	-1.78E-03	1.39E-03	-2.58E-02	2.17E-02
1/10	-1.59E-04	-1.76E-02	1.09E-02	-2.72E-03	1.36E-03	-2.56E-02	1.52E-02

Table R–188. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

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

Table R–189. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

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

Table R–190. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

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

Table R–191. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–192. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	1.22E-06	-0.119	0.122	-3.18E-03	3.23E-03	-0.191	0.194
1/20	-3.92E-04	-9.95E-02	9.46E-02	-3.79E-03	3.66E-03	-6.80E-02	8.11E-02
1/15	-3.23E-04	-0.190	0.195	-7.27E-03	5.46E-03	-0.104	8.67E-02
1/10	—	—	—	—	—	—	—

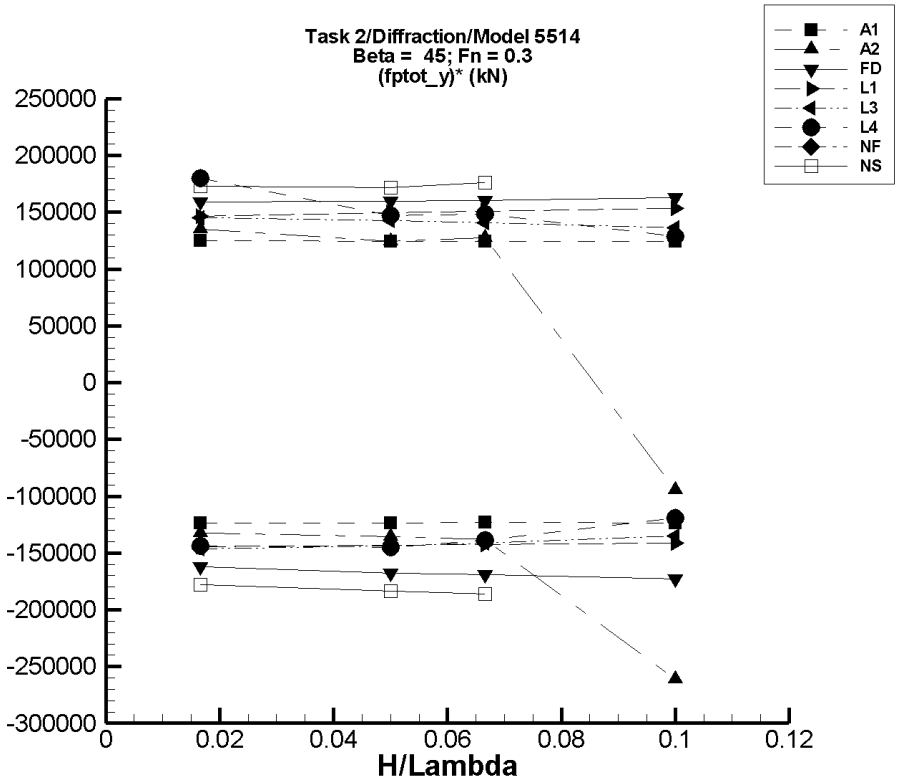

Figure R–25. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–193. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.19	-2.16E+03	2.16E+03	-2.07E+03	2.07E+03	-1.24E+05	1.25E+05
1/20	-9.54	-6.46E+03	6.46E+03	-6.18E+03	6.21E+03	-1.23E+05	1.24E+05
1/15	-12.7	-8.60E+03	8.60E+03	-8.23E+03	8.26E+03	-1.23E+05	1.24E+05
1/10	-19.1	-1.29E+04	1.29E+04	-1.24E+04	1.24E+04	-1.23E+05	1.24E+05

Table R–194. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-2.14	-2.30E+03	2.34E+03	-2.21E+03	2.25E+03	-1.33E+05	1.35E+05
1/20	21.0	-6.88E+03	6.39E+03	-6.75E+03	6.23E+03	-1.35E+05	1.24E+05
1/15	16.8	-9.34E+03	1.38E+04	-9.20E+03	8.53E+03	-1.38E+05	1.28E+05
1/10	1.08E+04	-1.61E+04	1.37E+03	-1.54E+04	1.27E+03	-2.61E+05	-9.48E+04

Table R–195. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.86	-2.71E+03	2.65E+03	-2.70E+03	2.64E+03	-1.62E+05	1.59E+05
1/20	-12.5	-8.42E+03	8.00E+03	-8.39E+03	7.98E+03	-1.68E+05	1.60E+05
1/15	-18.3	-1.13E+04	1.07E+04	-1.13E+04	1.07E+04	-1.69E+05	1.60E+05
1/10	-19.6	-1.74E+04	1.63E+04	-1.73E+04	1.63E+04	-1.73E+05	1.63E+05

Table R–196. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-227.	-2.64E+03	2.22E+03	-2.64E+03	2.22E+03	-1.45E+05	1.47E+05
1/20	-2.05E+03	-9.21E+03	5.41E+03	-9.20E+03	5.42E+03	-1.43E+05	1.49E+05
1/15	-3.64E+03	-1.31E+04	6.38E+03	-1.31E+04	6.40E+03	-1.42E+05	1.51E+05
1/10	-8.19E+03	-2.23E+04	7.09E+03	-2.23E+04	7.14E+03	-1.41E+05	1.53E+05

Table R–197. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-227.	-2.67E+03	2.19E+03	-2.67E+03	2.19E+03	-1.46E+05	1.45E+05
1/20	-2.05E+03	-9.26E+03	5.06E+03	-9.25E+03	5.08E+03	-1.44E+05	1.43E+05
1/15	-3.64E+03	-1.31E+04	5.71E+03	-1.30E+04	5.72E+03	-1.41E+05	1.40E+05
1/10	-8.19E+03	-2.17E+04	5.42E+03	-2.17E+04	5.46E+03	-1.35E+05	1.37E+05

Table R–198. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	50.1	-2.37E+03	3.10E+03	-2.34E+03	3.04E+03	-1.44E+05	1.80E+05
1/20	627.	-6.75E+03	8.05E+03	-6.62E+03	7.98E+03	-1.45E+05	1.47E+05
1/15	1.24E+03	-8.32E+03	1.13E+04	-8.00E+03	1.11E+04	-1.39E+05	1.48E+05
1/10	2.75E+03	-2.39E+04	2.90E+04	-9.18E+03	1.56E+04	-1.19E+05	1.29E+05

Table R–199. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–200. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	49.7	-2.94E+03	2.93E+03	-2.91E+03	2.93E+03	-1.78E+05	1.73E+05
1/20	453.	-8.85E+03	9.06E+03	-8.73E+03	9.04E+03	-1.84E+05	1.72E+05
1/15	783.	-1.17E+04	1.25E+04	-1.16E+04	1.25E+04	-1.86E+05	1.76E+05
1/10	—	—	—	—	—	—	—

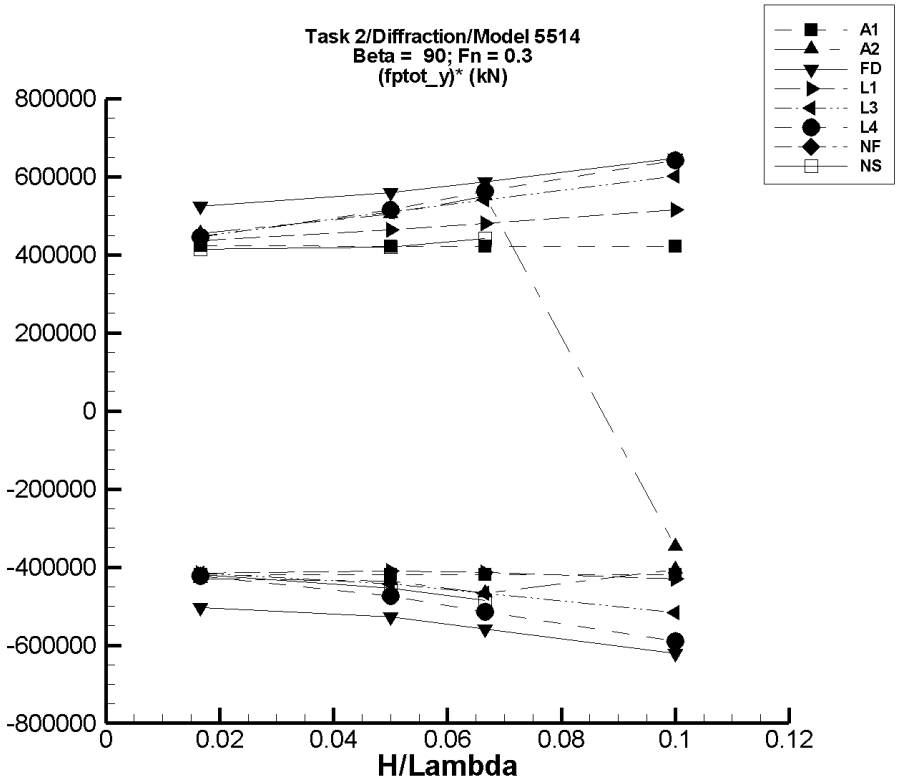

Figure R–26. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–201. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-5.81	-7.09E+03	7.10E+03	-7.01E+03	7.04E+03	-4.20E+05	4.23E+05
1/20	-17.4	-2.12E+04	2.12E+04	-2.10E+04	2.11E+04	-4.19E+05	4.22E+05
1/15	-23.1	-2.82E+04	2.83E+04	-2.79E+04	2.80E+04	-4.19E+05	4.21E+05
1/10	-34.8	-4.24E+04	4.25E+04	-4.20E+04	4.21E+04	-4.19E+05	4.22E+05

Table R–202. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-3.81	-7.26E+03	7.68E+03	-7.18E+03	7.57E+03	-4.31E+05	4.54E+05
1/20	-27.8	-2.19E+04	3.17E+04	-2.18E+04	2.52E+04	-4.36E+05	5.05E+05
1/15	-24.0	-3.17E+04	3.73E+04	-3.11E+04	3.67E+04	-4.66E+05	5.51E+05
1/10	5.82E+04	1.75E+04	2.34E+04	1.75E+04	2.34E+04	-4.07E+05	-3.48E+05

Table R–203. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-0.653	-8.47E+03	8.69E+03	-8.38E+03	8.75E+03	-5.03E+05	5.25E+05
1/20	-14.7	-2.67E+04	2.84E+04	-2.64E+04	2.79E+04	-5.28E+05	5.59E+05
1/15	-29.8	-3.72E+04	3.98E+04	-3.73E+04	3.91E+04	-5.59E+05	5.87E+05
1/10	-59.2	-6.16E+04	6.62E+04	-6.21E+04	6.48E+04	-6.20E+05	6.48E+05

Table R–204. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-201.	-7.16E+03	7.09E+03	-7.13E+03	7.06E+03	-4.16E+05	4.36E+05
1/20	-1.78E+03	-2.24E+04	2.15E+04	-2.23E+04	2.14E+04	-4.11E+05	4.64E+05
1/15	-3.16E+03	-3.09E+04	2.90E+04	-3.08E+04	2.89E+04	-4.14E+05	4.80E+05
1/10	-7.09E+03	-5.03E+04	4.47E+04	-5.01E+04	4.44E+04	-4.30E+05	5.15E+05

Table R–205. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-200.	-7.17E+03	7.29E+03	-7.14E+03	7.25E+03	-4.16E+05	4.47E+05
1/20	-1.77E+03	-2.41E+04	2.38E+04	-2.39E+04	2.37E+04	-4.43E+05	5.09E+05
1/15	-3.14E+03	-3.45E+04	3.32E+04	-3.43E+04	3.30E+04	-4.67E+05	5.42E+05
1/10	-7.02E+03	-5.91E+04	5.36E+04	-5.86E+04	5.31E+04	-5.16E+05	6.01E+05

Table R–206. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	221.	-6.92E+03	7.71E+03	-6.83E+03	7.66E+03	-4.23E+05	4.46E+05
1/20	2.00E+03	-2.19E+04	2.79E+04	-2.17E+04	2.78E+04	-4.75E+05	5.15E+05
1/15	3.58E+03	-3.10E+04	4.15E+04	-3.07E+04	4.11E+04	-5.15E+05	5.63E+05
1/10	7.46E+03	-1.02E+05	8.83E+04	-5.15E+04	7.17E+04	-5.89E+05	6.42E+05

Table R–207. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–208. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	33.9	-7.04E+03	6.91E+03	-6.96E+03	6.94E+03	-4.20E+05	4.14E+05
1/20	384.	-2.28E+04	2.17E+04	-2.23E+04	2.14E+04	-4.54E+05	4.20E+05
1/15	959.	-3.19E+04	3.07E+04	-3.14E+04	3.04E+04	-4.86E+05	4.41E+05
1/10	—	—	—	—	—	—	—

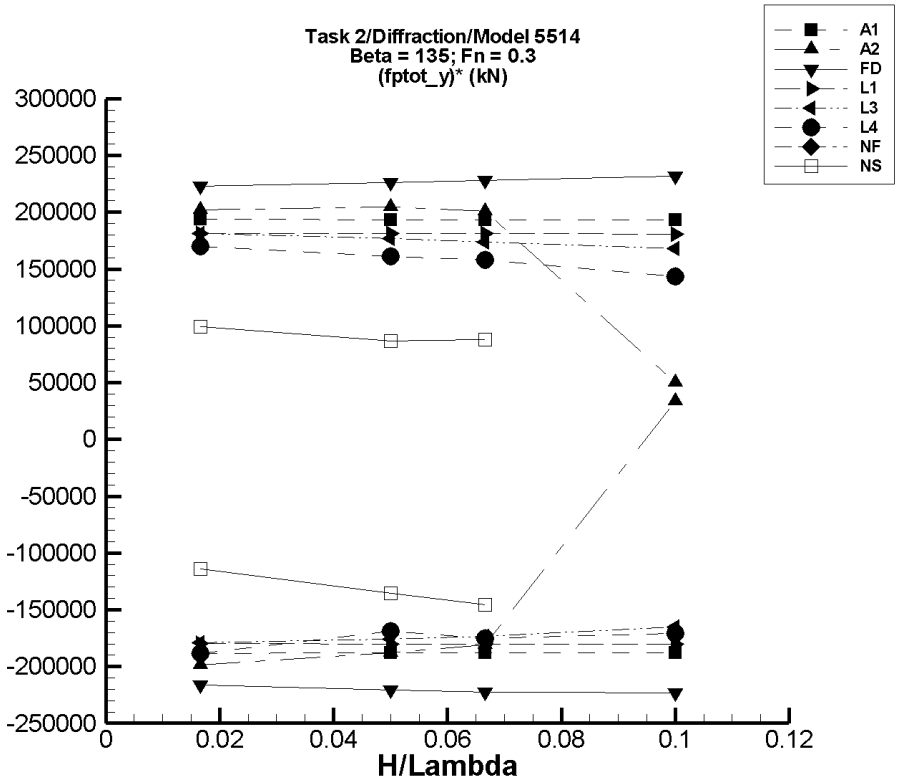

Figure R–27. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–209. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-4.87	-3.23E+03	3.24E+03	-3.15E+03	3.23E+03	-1.88E+05	1.94E+05
1/20	-14.6	-9.65E+03	9.69E+03	-9.41E+03	9.66E+03	-1.88E+05	1.93E+05
1/15	-19.4	-1.29E+04	1.29E+04	-1.25E+04	1.29E+04	-1.88E+05	1.93E+05
1/10	-29.1	-1.93E+04	1.94E+04	-1.88E+04	1.93E+04	-1.88E+05	1.93E+05

Table R–210. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-5.22	-3.41E+03	3.37E+03	-3.32E+03	3.36E+03	-1.99E+05	2.02E+05
1/20	-240.	-9.91E+03	1.00E+04	-9.63E+03	1.00E+04	-1.88E+05	2.05E+05
1/15	119.	-1.33E+04	1.36E+04	-1.19E+04	1.35E+04	-1.81E+05	2.01E+05
1/10	1.05E+04	1.39E+04	1.55E+04	1.39E+04	1.55E+04	3.39E+04	5.01E+04

Table R–211. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.65	-3.70E+03	3.71E+03	-3.61E+03	3.72E+03	-2.16E+05	2.23E+05
1/20	-6.03	-1.13E+04	1.13E+04	-1.10E+04	1.13E+04	-2.21E+05	2.26E+05
1/15	-9.50	-1.53E+04	1.51E+04	-1.49E+04	1.52E+04	-2.23E+05	2.28E+05
1/10	-26.2	-2.29E+04	2.31E+04	-2.24E+04	2.31E+04	-2.23E+05	2.32E+05

Table R–212. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-129.	-3.15E+03	2.90E+03	-3.13E+03	2.90E+03	-1.80E+05	1.82E+05
1/20	-1.14E+03	-1.02E+04	7.94E+03	-1.01E+04	7.93E+03	-1.80E+05	1.81E+05
1/15	-2.02E+03	-1.41E+04	1.01E+04	-1.40E+04	1.01E+04	-1.80E+05	1.81E+05
1/10	-4.53E+03	-2.27E+04	1.36E+04	-2.26E+04	1.36E+04	-1.80E+05	1.81E+05

Table R–213. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-129.	-3.14E+03	2.90E+03	-3.11E+03	2.90E+03	-1.79E+05	1.81E+05
1/20	-1.14E+03	-1.00E+04	7.77E+03	-9.92E+03	7.71E+03	-1.76E+05	1.77E+05
1/15	-2.02E+03	-1.37E+04	9.66E+03	-1.36E+04	9.58E+03	-1.73E+05	1.74E+05
1/10	-4.53E+03	-2.12E+04	1.24E+04	-2.11E+04	1.23E+04	-1.65E+05	1.68E+05

Table R–214. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	135.	-3.06E+03	3.15E+03	-3.01E+03	2.97E+03	-1.89E+05	1.70E+05
1/20	1.57E+03	-7.00E+03	9.97E+03	-6.88E+03	9.63E+03	-1.69E+05	1.61E+05
1/15	2.89E+03	-9.00E+03	1.36E+04	-8.80E+03	1.34E+04	-1.75E+05	1.58E+05
1/10	5.97E+03	-1.15E+04	2.84E+04	-1.11E+04	2.03E+04	-1.71E+05	1.43E+05

Table R–215. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–216. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	70.3	-1.86E+03	1.73E+03	-1.83E+03	1.73E+03	-1.14E+05	9.94E+04
1/20	745.	-6.15E+03	5.16E+03	-6.03E+03	5.08E+03	-1.35E+05	8.66E+04
1/15	1.64E+03	-8.23E+03	7.60E+03	-8.06E+03	7.48E+03	-1.45E+05	8.77E+04
1/10	—	—	—	—	—	—	—

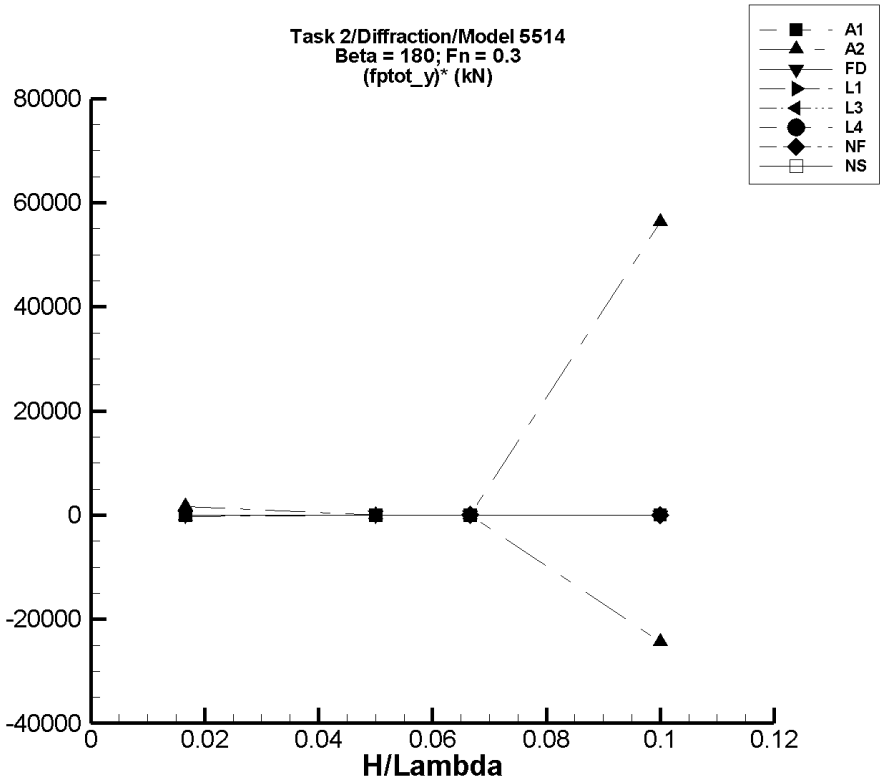

Figure R–28. Minimum and Maximum of $(F_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–217. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-2.03E-04	-0.138	8.88E-02	-9.27E-02	8.55E-02	-5.55	5.14
1/20	-6.07E-04	-0.414	0.266	-0.277	0.256	-5.53	5.13
1/15	-8.08E-04	-0.551	0.354	-0.369	0.341	-5.52	5.12
1/10	-1.21E-03	-0.828	0.532	-0.554	0.512	-5.53	5.13

Table R–218. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	2.79	-0.138	229.	-2.53	30.5	-319.	1.66E+03
1/20	-5.97E-04	-0.418	0.266	-0.277	0.256	-5.53	5.13
1/15	-0.215	-44.3	33.3	-2.19	0.548	-29.6	11.4
1/10	1.92E+03	-1.01E+03	5.65E+04	-521.	7.55E+03	-2.44E+04	5.63E+04

Table R–219. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-1.20E-05	-1.25E-03	1.14E-03	-8.60E-04	8.73E-04	-5.09E-02	5.31E-02
1/20	-1.46E-05	-3.77E-03	3.74E-03	-2.59E-03	2.94E-03	-5.15E-02	5.91E-02
1/15	-8.07E-05	-5.74E-03	5.14E-03	-3.39E-03	3.93E-03	-4.97E-02	6.02E-02
1/10	-2.53E-04	-1.18E-02	8.20E-03	-5.95E-03	6.18E-03	-5.70E-02	6.43E-02

Table R–220. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

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

Table R–221. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

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

Table R–222. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

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

Table R–223. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	0.287	0.256	0.321	0.255	0.321	-0.641	0.681
1/15	0.534	0.471	0.663	0.471	0.607	-0.942	1.08
1/10	1.34	-1.13	2.98	2.89E-02	2.19	-13.1	8.57

Table R–224. Minimum and Maximum of F_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_y^{ptot} Min. (kN)	Unfiltered F_y^{ptot} Max. (kN)	Filtered F_y^{ptot} Min. (kN)	Filtered F_y^{ptot} Max. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{ptot}}\right)^*$ Max. (kN)
1/60	-7.37E-06	-4.42E-03	4.61E-03	-8.69E-04	6.40E-04	-5.17E-02	3.89E-02
1/20	7.11E-05	-1.34E-02	1.50E-02	-1.31E-03	3.07E-03	-2.76E-02	6.00E-02
1/15	1.39E-04	-2.91E-02	3.45E-02	-2.02E-03	4.47E-03	-3.24E-02	6.50E-02
1/10	—	—	—	—	—	—	—

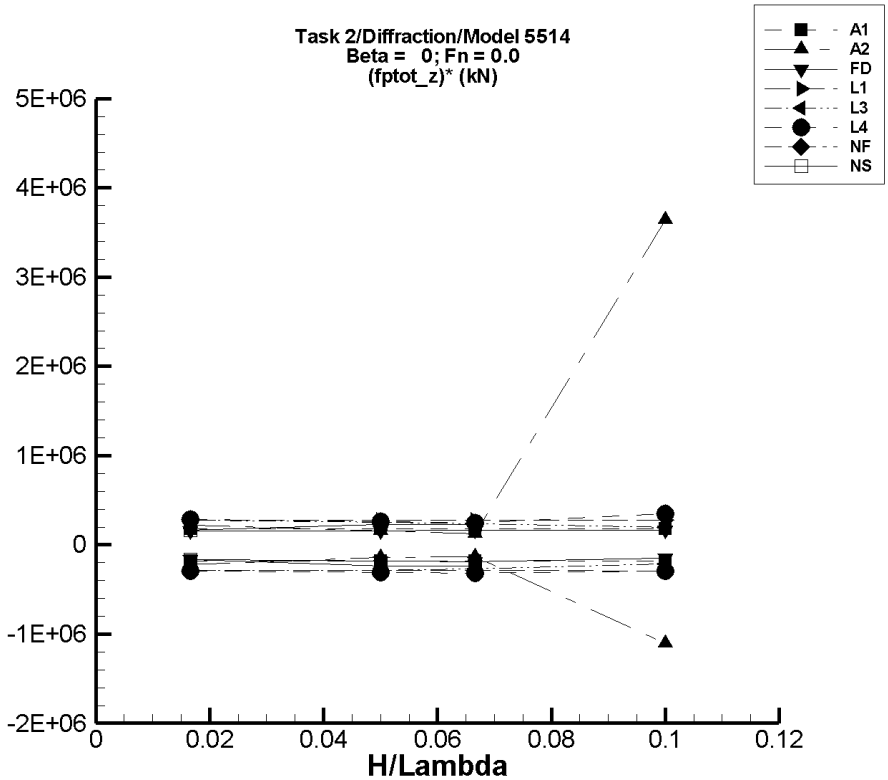

Figure R–29. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–225. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.89E+04	9.50E+04	8.90E+04	9.50E+04	-1.79E+05	1.80E+05
1/20	9.20E+04	8.29E+04	1.01E+05	8.30E+04	1.01E+05	-1.79E+05	1.80E+05
1/15	9.20E+04	7.99E+04	1.04E+05	8.01E+04	1.04E+05	-1.79E+05	1.80E+05
1/10	9.20E+04	7.39E+04	1.10E+05	7.41E+04	1.10E+05	-1.79E+05	1.80E+05

Table R–226. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.85E+04	9.59E+04	8.86E+04	9.59E+04	-2.18E+05	2.22E+05
1/20	9.49E+04	8.79E+04	1.03E+05	8.80E+04	1.03E+05	-1.38E+05	1.59E+05
1/15	9.71E+04	8.61E+04	1.06E+05	8.80E+04	1.05E+05	-1.36E+05	1.26E+05
1/10	1.22E+05	-1.23E+04	3.20E+06	1.20E+04	4.86E+05	-1.10E+06	3.64E+06

Table R–227. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.96E+04	9.50E+04	8.97E+04	9.50E+04	-1.63E+05	1.59E+05
1/20	9.52E+04	8.61E+04	1.03E+05	8.62E+04	1.03E+05	-1.80E+05	1.54E+05
1/15	9.69E+04	8.41E+04	1.08E+05	8.42E+04	1.08E+05	-1.90E+05	1.64E+05
1/10	1.00E+05	8.51E+04	1.17E+05	8.52E+04	1.17E+05	-1.50E+05	1.68E+05

Table R–228. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.16E+04	8.68E+04	9.63E+04	8.68E+04	9.62E+04	-2.84E+05	2.80E+05
1/20	8.99E+04	7.54E+04	1.04E+05	7.55E+04	1.04E+05	-2.87E+05	2.77E+05
1/15	8.84E+04	6.90E+04	1.07E+05	6.91E+04	1.07E+05	-2.89E+05	2.76E+05
1/10	8.41E+04	5.47E+04	1.12E+05	5.49E+04	1.12E+05	-2.93E+05	2.75E+05

Table R–229. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.66E+04	9.60E+04	8.67E+04	9.60E+04	-2.85E+05	2.75E+05
1/20	8.93E+04	7.52E+04	1.02E+05	7.53E+04	1.02E+05	-2.82E+05	2.55E+05
1/15	8.77E+04	6.98E+04	1.03E+05	7.00E+04	1.03E+05	-2.66E+05	2.34E+05
1/10	8.30E+04	6.19E+04	1.02E+05	6.20E+04	1.02E+05	-2.10E+05	1.94E+05

Table R–230. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.12E+04	8.62E+04	9.60E+04	8.63E+04	9.59E+04	-2.93E+05	2.83E+05
1/20	8.73E+04	7.10E+04	1.01E+05	7.17E+04	1.00E+05	-3.11E+05	2.62E+05
1/15	8.38E+04	6.20E+04	1.01E+05	6.28E+04	1.00E+05	-3.14E+05	2.43E+05
1/10	7.65E+04	-1.02E+03	1.44E+05	4.68E+04	1.12E+05	-2.96E+05	3.51E+05

Table R–231. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–232. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.86E+04	9.43E+04	8.87E+04	9.42E+04	-1.67E+05	1.67E+05
1/20	8.48E+04	7.29E+04	9.66E+04	7.31E+04	9.64E+04	-2.34E+05	2.31E+05
1/15	8.23E+04	6.64E+04	9.78E+04	6.65E+04	9.76E+04	-2.37E+05	2.30E+05
1/10	—	—	—	—	—	—	—

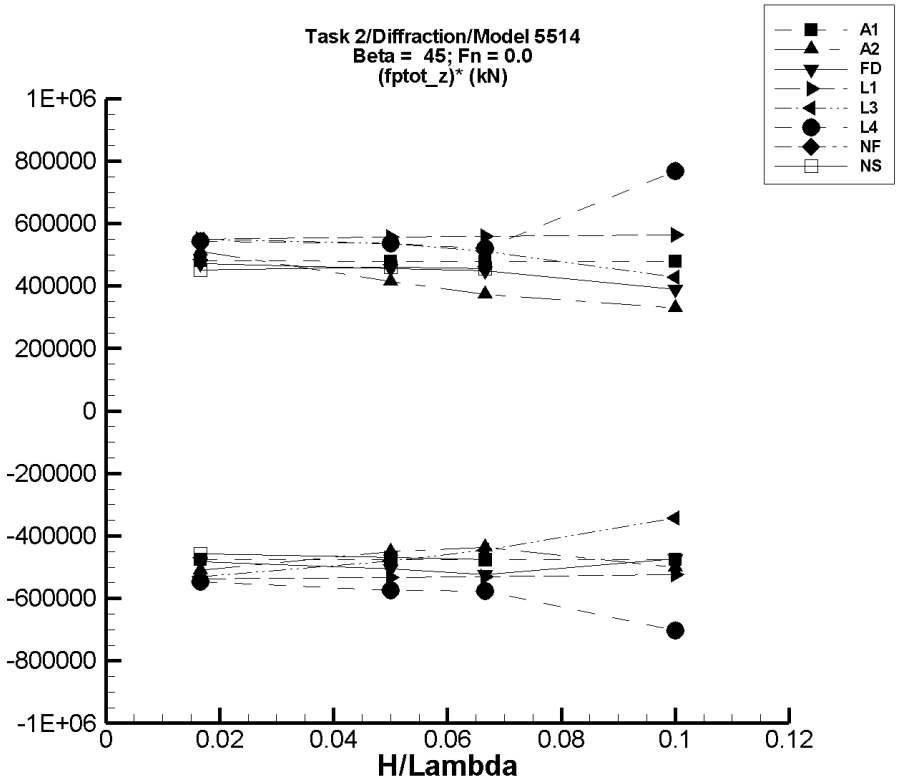

Figure R–30. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–233. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.39E+04	1.00E+05	8.40E+04	1.00E+05	-4.77E+05	4.80E+05
1/20	9.20E+04	6.79E+04	1.16E+05	6.82E+04	1.16E+05	-4.76E+05	4.79E+05
1/15	9.20E+04	6.00E+04	1.24E+05	6.03E+04	1.24E+05	-4.75E+05	4.78E+05
1/10	9.20E+04	4.39E+04	1.40E+05	4.44E+04	1.40E+05	-4.76E+05	4.79E+05

Table R–234. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.36E+04	1.01E+05	8.37E+04	1.01E+05	-5.11E+05	5.10E+05
1/20	9.49E+04	7.08E+04	1.16E+05	7.24E+04	1.16E+05	-4.50E+05	4.15E+05
1/15	9.69E+04	6.54E+04	1.22E+05	6.78E+04	1.22E+05	-4.37E+05	3.73E+05
1/10	9.31E+04	3.02E+04	1.78E+05	4.31E+04	1.26E+05	-5.00E+05	3.31E+05

Table R–235. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.43E+04	1.00E+05	8.43E+04	1.00E+05	-4.82E+05	4.72E+05
1/20	9.52E+04	6.95E+04	1.18E+05	6.99E+04	1.18E+05	-5.06E+05	4.57E+05
1/15	9.68E+04	6.14E+04	1.27E+05	6.19E+04	1.27E+05	-5.23E+05	4.50E+05
1/10	1.00E+05	5.18E+04	1.39E+05	5.28E+04	1.39E+05	-4.73E+05	3.89E+05

Table R–236. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.24E+04	1.01E+05	8.24E+04	1.01E+05	-5.38E+05	5.51E+05
1/20	8.83E+04	6.16E+04	1.16E+05	6.17E+04	1.16E+05	-5.32E+05	5.56E+05
1/15	8.56E+04	5.01E+04	1.23E+05	5.03E+04	1.23E+05	-5.30E+05	5.58E+05
1/10	7.79E+04	2.52E+04	1.34E+05	2.54E+04	1.34E+05	-5.25E+05	5.64E+05

Table R–237. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.12E+04	8.24E+04	1.00E+05	8.24E+04	1.00E+05	-5.30E+05	5.49E+05
1/20	8.78E+04	6.36E+04	1.15E+05	6.37E+04	1.15E+05	-4.81E+05	5.35E+05
1/15	8.49E+04	5.51E+04	1.19E+05	5.52E+04	1.19E+05	-4.46E+05	5.10E+05
1/10	7.67E+04	4.24E+04	1.20E+05	4.24E+04	1.20E+05	-3.43E+05	4.29E+05

Table R–238. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.10E+04	8.18E+04	1.00E+05	8.19E+04	1.00E+05	-5.46E+05	5.43E+05
1/20	8.58E+04	5.64E+04	1.13E+05	5.71E+04	1.13E+05	-5.74E+05	5.36E+05
1/15	8.12E+04	4.22E+04	1.16E+05	4.28E+04	1.16E+05	-5.77E+05	5.19E+05
1/10	8.41E+04	1.22E+04	1.98E+05	1.37E+04	1.61E+05	-7.04E+05	7.68E+05

Table R–239. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–240. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.37E+04	9.90E+04	8.37E+04	9.89E+04	-4.57E+05	4.52E+05
1/20	8.43E+04	6.07E+04	1.08E+05	6.09E+04	1.07E+05	-4.68E+05	4.60E+05
1/15	8.13E+04	4.93E+04	1.12E+05	4.96E+04	1.12E+05	-4.76E+05	4.56E+05
1/10	—	—	—	—	—	—	—

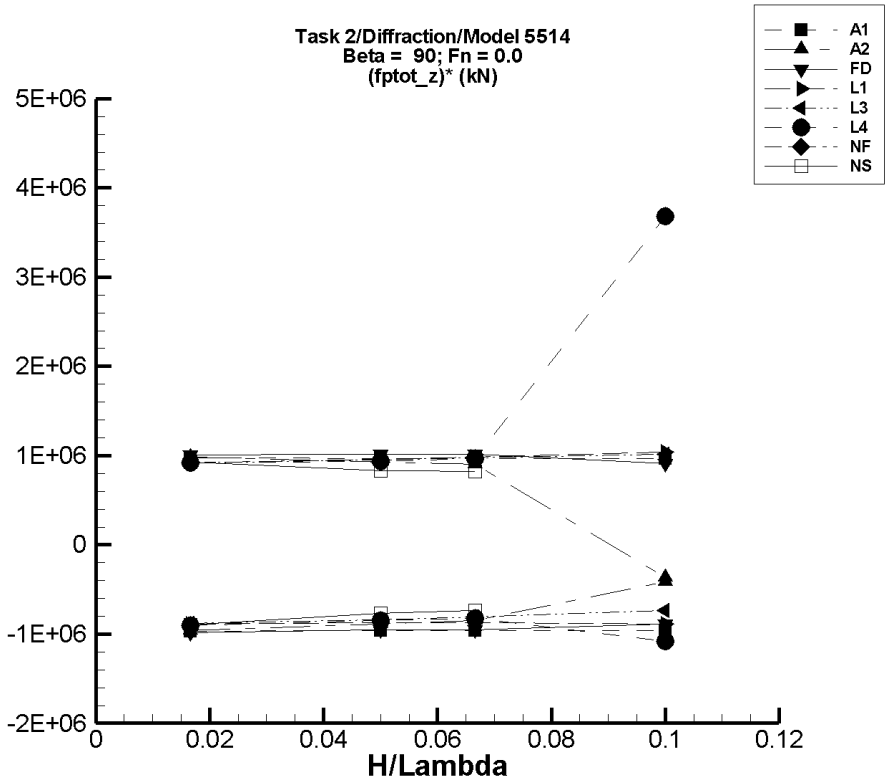

Figure R–31. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–241. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	7.57E+04	1.08E+05	7.59E+04	1.08E+05	-9.65E+05	9.72E+05
1/20	9.20E+04	4.34E+04	1.41E+05	4.39E+04	1.40E+05	-9.62E+05	9.69E+05
1/15	9.20E+04	2.72E+04	1.57E+05	2.79E+04	1.56E+05	-9.61E+05	9.68E+05
1/10	9.20E+04	-5.26E+03	1.90E+05	-4.21E+03	1.89E+05	-9.62E+05	9.69E+05

Table R–242. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	7.60E+04	1.09E+05	7.62E+04	1.09E+05	-9.62E+05	9.84E+05
1/20	9.47E+04	4.77E+04	1.41E+05	5.01E+04	1.41E+05	-8.90E+05	9.27E+05
1/15	9.71E+04	3.75E+04	1.58E+05	4.07E+04	1.57E+05	-8.46E+05	9.02E+05
1/10	1.75E+05	1.34E+05	1.39E+05	1.34E+05	1.39E+05	-4.18E+05	-3.69E+05

Table R–243. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	7.58E+04	1.09E+05	7.59E+04	1.09E+05	-9.87E+05	1.01E+06
1/20	9.52E+04	4.70E+04	1.47E+05	4.74E+04	1.46E+05	-9.55E+05	1.02E+06
1/15	9.69E+04	3.27E+04	1.65E+05	3.34E+04	1.64E+05	-9.52E+05	1.01E+06
1/10	1.01E+05	9.96E+03	1.93E+05	1.16E+04	1.91E+05	-8.89E+05	9.08E+05

Table R–244. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.11E+04	7.63E+04	1.06E+05	7.63E+04	1.06E+05	-8.88E+05	9.15E+05
1/20	8.59E+04	4.21E+04	1.34E+05	4.22E+04	1.34E+05	-8.73E+05	9.60E+05
1/15	8.13E+04	2.29E+04	1.47E+05	2.31E+04	1.47E+05	-8.73E+05	9.85E+05
1/10	6.82E+04	-2.08E+04	1.73E+05	-2.04E+04	1.72E+05	-8.86E+05	1.04E+06

Table R–245. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.10E+04	7.62E+04	1.06E+05	7.63E+04	1.06E+05	-8.82E+05	9.17E+05
1/20	8.54E+04	4.34E+04	1.33E+05	4.35E+04	1.33E+05	-8.38E+05	9.52E+05
1/15	8.08E+04	2.66E+04	1.46E+05	2.69E+04	1.46E+05	-8.09E+05	9.72E+05
1/10	6.77E+04	-5.84E+03	1.70E+05	-5.40E+03	1.69E+05	-7.31E+05	1.02E+06

Table R–246. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.08E+04	7.56E+04	1.06E+05	7.57E+04	1.06E+05	-9.02E+05	9.17E+05
1/20	8.34E+04	4.08E+04	1.31E+05	4.10E+04	1.30E+05	-8.49E+05	9.35E+05
1/15	7.74E+04	2.19E+04	1.43E+05	2.24E+04	1.42E+05	-8.25E+05	9.67E+05
1/10	9.31E+04	-2.04E+05	9.78E+05	-1.52E+04	4.62E+05	-1.08E+06	3.69E+06

Table R–247. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–248. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.13E+04	7.61E+04	1.07E+05	7.63E+04	1.07E+05	-9.00E+05	9.28E+05
1/20	8.37E+04	4.52E+04	1.26E+05	4.55E+04	1.25E+05	-7.64E+05	8.28E+05
1/15	8.03E+04	3.10E+04	1.36E+05	3.13E+04	1.35E+05	-7.35E+05	8.25E+05
1/10	—	—	—	—	—	—	—

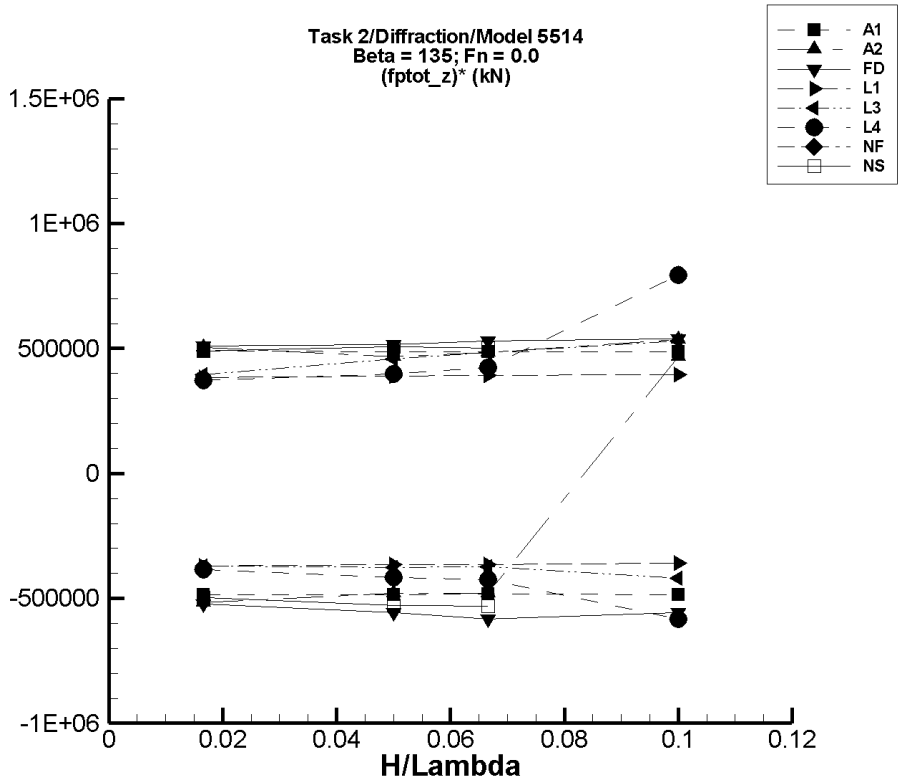

Figure R–32. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–249. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.38E+04	1.00E+05	8.39E+04	1.00E+05	-4.85E+05	4.90E+05
1/20	9.20E+04	6.75E+04	1.17E+05	6.78E+04	1.16E+05	-4.84E+05	4.88E+05
1/15	9.20E+04	5.94E+04	1.25E+05	5.98E+04	1.25E+05	-4.83E+05	4.88E+05
1/10	9.20E+04	4.31E+04	1.41E+05	4.36E+04	1.41E+05	-4.84E+05	4.88E+05

Table R–250. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.35E+04	1.01E+05	8.36E+04	1.01E+05	-5.17E+05	5.04E+05
1/20	9.49E+04	7.06E+04	1.18E+05	7.09E+04	1.18E+05	-4.80E+05	4.66E+05
1/15	9.71E+04	6.48E+04	1.30E+05	6.52E+04	1.29E+05	-4.79E+05	4.85E+05
1/10	3.85E+04	8.52E+04	9.19E+04	8.52E+04	9.19E+04	4.67E+05	5.35E+05

Table R–251. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.35E+04	1.01E+05	8.36E+04	1.01E+05	-5.24E+05	5.11E+05
1/20	9.52E+04	6.70E+04	1.21E+05	6.73E+04	1.21E+05	-5.57E+05	5.17E+05
1/15	9.68E+04	5.75E+04	1.33E+05	5.80E+04	1.32E+05	-5.83E+05	5.30E+05
1/10	1.00E+05	4.39E+04	1.55E+05	4.46E+04	1.54E+05	-5.56E+05	5.39E+05

Table R–252. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.52E+04	9.78E+04	8.52E+04	9.78E+04	-3.70E+05	3.84E+05
1/20	8.82E+04	6.98E+04	1.08E+05	6.99E+04	1.08E+05	-3.66E+05	3.89E+05
1/15	8.54E+04	6.10E+04	1.12E+05	6.11E+04	1.11E+05	-3.64E+05	3.91E+05
1/10	7.75E+04	4.13E+04	1.17E+05	4.14E+04	1.17E+05	-3.60E+05	3.96E+05

Table R–253. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.12E+04	8.50E+04	9.78E+04	8.50E+04	9.78E+04	-3.70E+05	3.96E+05
1/20	8.77E+04	6.87E+04	1.11E+05	6.88E+04	1.11E+05	-3.77E+05	4.59E+05
1/15	8.47E+04	5.99E+04	1.17E+05	5.99E+04	1.17E+05	-3.72E+05	4.84E+05
1/10	7.63E+04	3.41E+04	1.29E+05	3.43E+04	1.29E+05	-4.20E+05	5.30E+05

Table R–254. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.10E+04	8.45E+04	9.73E+04	8.46E+04	9.72E+04	-3.84E+05	3.72E+05
1/20	8.56E+04	6.47E+04	1.06E+05	6.48E+04	1.06E+05	-4.15E+05	3.99E+05
1/15	8.11E+04	5.25E+04	1.10E+05	5.28E+04	1.09E+05	-4.24E+05	4.25E+05
1/10	8.25E+04	2.35E+04	2.10E+05	2.42E+04	1.62E+05	-5.83E+05	7.94E+05

Table R–255. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–256. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.30E+04	9.96E+04	8.31E+04	9.95E+04	-4.97E+05	4.89E+05
1/20	8.43E+04	5.76E+04	1.10E+05	5.79E+04	1.10E+05	-5.27E+05	5.06E+05
1/15	8.13E+04	4.56E+04	1.15E+05	4.59E+04	1.15E+05	-5.32E+05	5.02E+05
1/10	—	—	—	—	—	—	—

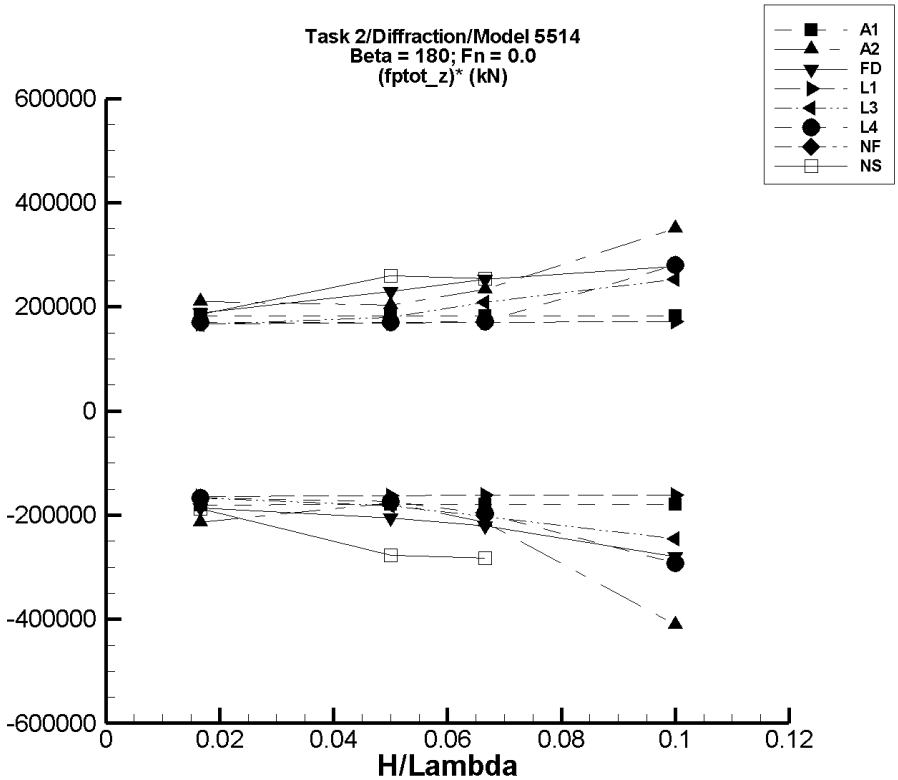

Figure R–33. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–257. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.89E+04	9.51E+04	8.90E+04	9.50E+04	-1.80E+05	1.83E+05
1/20	9.20E+04	8.29E+04	1.01E+05	8.30E+04	1.01E+05	-1.80E+05	1.83E+05
1/15	9.20E+04	7.99E+04	1.04E+05	8.00E+04	1.04E+05	-1.80E+05	1.82E+05
1/10	9.20E+04	7.38E+04	1.10E+05	7.40E+04	1.10E+05	-1.80E+05	1.83E+05

Table R–258. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.86E+04	9.57E+04	8.86E+04	9.57E+04	-2.14E+05	2.09E+05
1/20	9.49E+04	8.59E+04	1.05E+05	8.60E+04	1.05E+05	-1.77E+05	2.04E+05
1/15	9.71E+04	7.42E+04	1.13E+05	8.28E+04	1.13E+05	-2.14E+05	2.34E+05
1/10	8.87E+04	-471.	3.45E+05	4.76E+04	1.24E+05	-4.11E+05	3.51E+05

Table R–259. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.92E+04	9.55E+04	8.93E+04	9.55E+04	-1.86E+05	1.88E+05
1/20	9.51E+04	8.48E+04	1.07E+05	8.49E+04	1.07E+05	-2.05E+05	2.29E+05
1/15	9.69E+04	8.20E+04	1.14E+05	8.21E+04	1.14E+05	-2.21E+05	2.52E+05
1/10	1.00E+05	7.19E+04	1.28E+05	7.23E+04	1.28E+05	-2.80E+05	2.78E+05

Table R–260. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.16E+04	8.88E+04	9.44E+04	8.89E+04	9.44E+04	-1.64E+05	1.68E+05
1/20	8.99E+04	8.18E+04	9.84E+04	8.18E+04	9.84E+04	-1.63E+05	1.69E+05
1/15	8.85E+04	7.76E+04	9.99E+04	7.77E+04	9.98E+04	-1.62E+05	1.70E+05
1/10	8.44E+04	6.82E+04	1.02E+05	6.83E+04	1.02E+05	-1.61E+05	1.72E+05

Table R–261. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.86E+04	9.42E+04	8.86E+04	9.42E+04	-1.67E+05	1.66E+05
1/20	8.94E+04	8.02E+04	9.85E+04	8.03E+04	9.84E+04	-1.83E+05	1.80E+05
1/15	8.78E+04	7.43E+04	1.02E+05	7.43E+04	1.02E+05	-2.03E+05	2.08E+05
1/10	8.33E+04	5.86E+04	1.09E+05	5.87E+04	1.09E+05	-2.46E+05	2.53E+05

Table R–262. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.12E+04	8.84E+04	9.40E+04	8.84E+04	9.40E+04	-1.67E+05	1.71E+05
1/20	8.71E+04	7.83E+04	9.58E+04	7.84E+04	9.57E+04	-1.74E+05	1.70E+05
1/15	8.37E+04	7.02E+04	9.60E+04	7.06E+04	9.51E+04	-1.97E+05	1.71E+05
1/10	7.69E+04	3.02E+04	1.50E+05	4.76E+04	1.05E+05	-2.93E+05	2.81E+05

Table R–263. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–264. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.15E+04	8.83E+04	9.46E+04	8.83E+04	9.45E+04	-1.87E+05	1.85E+05
1/20	8.48E+04	7.08E+04	9.79E+04	7.10E+04	9.78E+04	-2.77E+05	2.59E+05
1/15	8.23E+04	6.32E+04	9.93E+04	6.34E+04	9.93E+04	-2.83E+05	2.54E+05
1/10	—	—	—	—	—	—	—

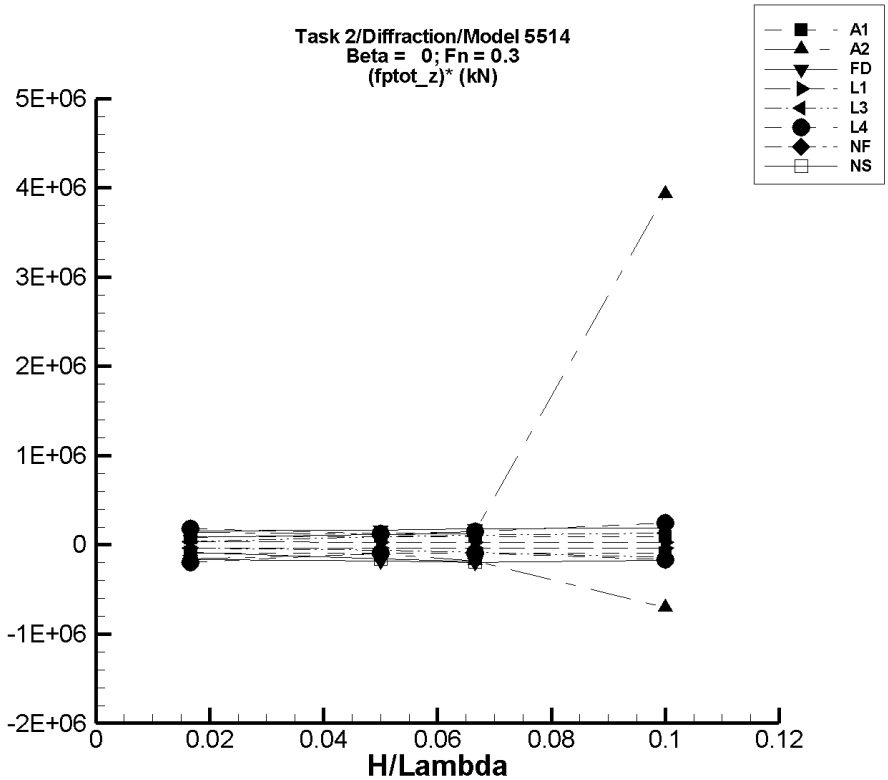

Figure R–34. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–265. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	9.04E+04	9.35E+04	9.05E+04	9.35E+04	-9.02E+04	8.94E+04
1/20	9.20E+04	8.73E+04	9.65E+04	8.75E+04	9.64E+04	-9.00E+04	8.92E+04
1/15	9.20E+04	8.58E+04	9.80E+04	8.60E+04	9.79E+04	-8.98E+04	8.90E+04
1/10	9.20E+04	8.26E+04	1.01E+05	8.30E+04	1.01E+05	-9.00E+04	8.92E+04

Table R–266. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.95E+04	9.47E+04	8.95E+04	9.46E+04	-1.59E+05	1.43E+05
1/20	9.48E+04	8.96E+04	1.01E+05	8.98E+04	1.01E+05	-1.00E+05	1.19E+05
1/15	9.70E+04	7.87E+04	1.07E+05	8.47E+04	1.07E+05	-1.85E+05	1.49E+05
1/10	9.58E+04	-2.86E+05	3.40E+06	2.57E+04	4.89E+05	-7.01E+05	3.93E+06

Table R–267. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.96E+04	9.50E+04	8.96E+04	9.50E+04	-1.65E+05	1.60E+05
1/20	9.52E+04	8.60E+04	1.03E+05	8.60E+04	1.03E+05	-1.82E+05	1.66E+05
1/15	9.68E+04	8.38E+04	1.09E+05	8.39E+04	1.09E+05	-1.95E+05	1.80E+05
1/10	1.00E+05	8.28E+04	1.19E+05	8.28E+04	1.19E+05	-1.74E+05	1.85E+05

Table R–268. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.69E+04	8.63E+04	8.74E+04	8.63E+04	8.74E+04	-3.30E+04	3.23E+04
1/20	8.54E+04	8.38E+04	8.70E+04	8.38E+04	8.70E+04	-3.38E+04	3.16E+04
1/15	8.42E+04	8.19E+04	8.63E+04	8.19E+04	8.63E+04	-3.42E+04	3.12E+04
1/10	8.06E+04	7.71E+04	8.37E+04	7.71E+04	8.37E+04	-3.49E+04	3.05E+04

Table R–269. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.67E+04	8.61E+04	8.74E+04	8.61E+04	8.74E+04	-3.64E+04	3.93E+04
1/20	8.49E+04	8.18E+04	8.95E+04	8.18E+04	8.95E+04	-6.23E+04	9.27E+04
1/15	8.35E+04	7.81E+04	9.10E+04	7.81E+04	9.10E+04	-8.11E+04	1.12E+05
1/10	7.95E+04	6.54E+04	9.28E+04	6.54E+04	9.28E+04	-1.41E+05	1.33E+05

Table R–270. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.66E+04	8.32E+04	8.98E+04	8.34E+04	8.96E+04	-1.95E+05	1.80E+05
1/20	8.42E+04	7.92E+04	9.11E+04	7.94E+04	9.05E+04	-9.65E+04	1.27E+05
1/15	8.25E+04	7.60E+04	9.27E+04	7.62E+04	9.23E+04	-9.53E+04	1.46E+05
1/10	7.98E+04	4.53E+04	1.22E+05	6.31E+04	1.05E+05	-1.68E+05	2.48E+05

Table R–271. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–272. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.13E+04	8.99E+04	9.28E+04	8.99E+04	9.27E+04	-8.76E+04	8.39E+04
1/20	8.20E+04	7.40E+04	8.79E+04	7.42E+04	8.78E+04	-1.56E+05	1.17E+05
1/15	7.61E+04	6.31E+04	8.46E+04	6.34E+04	8.45E+04	-1.91E+05	1.26E+05
1/10	—	—	—	—	—	—	—

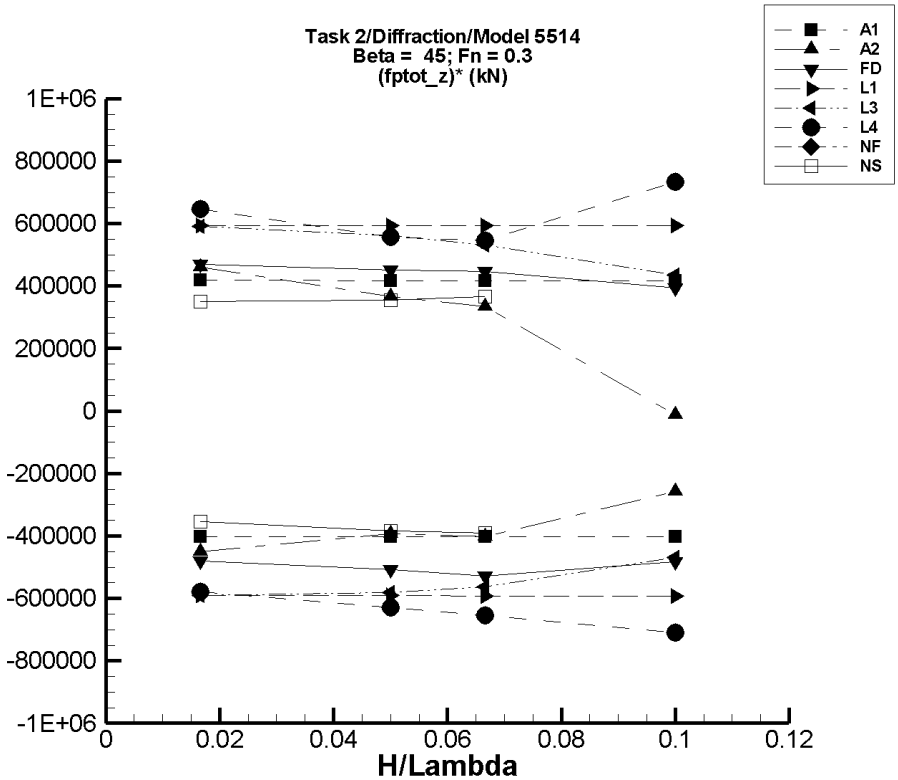

Figure R–35. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–273. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.19E+04	8.52E+04	9.89E+04	8.52E+04	9.89E+04	-4.03E+05	4.18E+05
1/20	9.19E+04	7.17E+04	1.13E+05	7.18E+04	1.13E+05	-4.02E+05	4.17E+05
1/15	9.19E+04	6.50E+04	1.20E+05	6.51E+04	1.20E+05	-4.02E+05	4.17E+05
1/10	9.18E+04	5.15E+04	1.34E+05	5.16E+04	1.34E+05	-4.02E+05	4.17E+05

Table R–274. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.46E+04	9.99E+04	8.46E+04	9.98E+04	-4.51E+05	4.61E+05
1/20	9.48E+04	7.51E+04	1.13E+05	7.52E+04	1.13E+05	-3.92E+05	3.67E+05
1/15	9.67E+04	6.88E+04	1.19E+05	6.98E+04	1.19E+05	-4.03E+05	3.34E+05
1/10	1.02E+05	7.27E+04	1.02E+05	7.65E+04	1.01E+05	-2.57E+05	-1.29E+04

Table R–275. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.43E+04	1.00E+05	8.44E+04	1.00E+05	-4.80E+05	4.69E+05
1/20	9.51E+04	6.97E+04	1.18E+05	6.98E+04	1.18E+05	-5.07E+05	4.52E+05
1/15	9.68E+04	6.15E+04	1.27E+05	6.16E+04	1.27E+05	-5.28E+05	4.48E+05
1/10	1.00E+05	5.15E+04	1.40E+05	5.17E+04	1.39E+05	-4.83E+05	3.94E+05

Table R–276. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.66E+04	7.67E+04	9.65E+04	7.67E+04	9.65E+04	-5.92E+05	5.94E+05
1/20	8.25E+04	5.29E+04	1.12E+05	5.30E+04	1.12E+05	-5.92E+05	5.93E+05
1/15	7.90E+04	3.95E+04	1.19E+05	3.96E+04	1.19E+05	-5.92E+05	5.93E+05
1/10	6.90E+04	9.74E+03	1.28E+05	9.79E+03	1.28E+05	-5.92E+05	5.92E+05

Table R–277. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.64E+04	7.65E+04	9.62E+04	7.65E+04	9.62E+04	-5.90E+05	5.90E+05
1/20	8.20E+04	5.29E+04	1.10E+05	5.29E+04	1.10E+05	-5.82E+05	5.62E+05
1/15	7.83E+04	4.07E+04	1.14E+05	4.07E+04	1.14E+05	-5.64E+05	5.31E+05
1/10	6.78E+04	2.08E+04	1.11E+05	2.09E+04	1.11E+05	-4.69E+05	4.36E+05

Table R–278. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.63E+04	7.67E+04	9.72E+04	7.67E+04	9.71E+04	-5.78E+05	6.47E+05
1/20	8.26E+04	5.08E+04	1.11E+05	5.11E+04	1.10E+05	-6.30E+05	5.58E+05
1/15	8.02E+04	3.57E+04	1.17E+05	3.66E+04	1.17E+05	-6.55E+05	5.45E+05
1/10	8.70E+04	1.47E+04	2.33E+05	1.61E+04	1.60E+05	-7.09E+05	7.34E+05

Table R–279. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–280. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.14E+04	8.54E+04	9.72E+04	8.54E+04	9.72E+04	-3.55E+05	3.50E+05
1/20	8.53E+04	6.60E+04	1.03E+05	6.62E+04	1.03E+05	-3.83E+05	3.56E+05
1/15	7.97E+04	5.34E+04	1.04E+05	5.36E+04	1.04E+05	-3.91E+05	3.67E+05
1/10	—	—	—	—	—	—	—

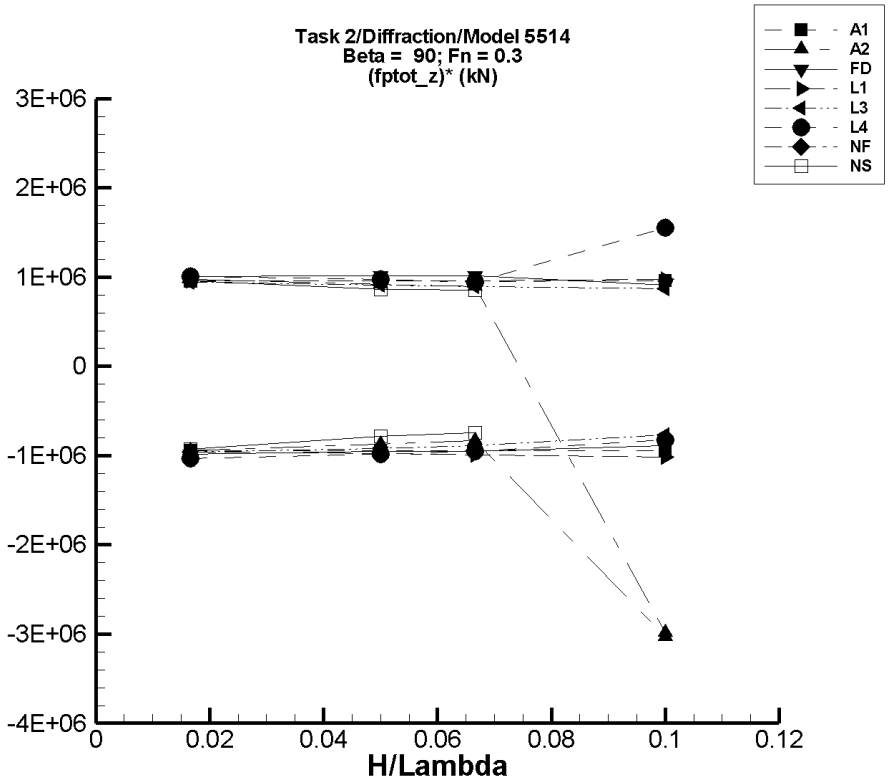

Figure R–36. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–281. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	7.61E+04	1.08E+05	7.62E+04	1.08E+05	-9.48E+05	9.58E+05
1/20	9.22E+04	4.44E+04	1.40E+05	4.49E+04	1.40E+05	-9.45E+05	9.55E+05
1/15	9.23E+04	2.87E+04	1.56E+05	2.94E+04	1.56E+05	-9.44E+05	9.54E+05
1/10	9.24E+04	-3.11E+03	1.88E+05	-2.08E+03	1.88E+05	-9.45E+05	9.55E+05

Table R–282. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.23E+04	7.63E+04	1.08E+05	7.65E+04	1.09E+05	-9.47E+05	9.76E+05
1/20	9.49E+04	4.87E+04	1.41E+05	5.11E+04	1.41E+05	-8.74E+05	9.18E+05
1/15	9.73E+04	3.89E+04	1.57E+05	4.20E+04	1.57E+05	-8.30E+05	8.93E+05
1/10	4.39E+05	1.36E+05	1.41E+05	1.36E+05	1.41E+05	-3.03E+06	-2.98E+06

Table R–283. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	7.57E+04	1.09E+05	7.59E+04	1.09E+05	-9.87E+05	1.01E+06
1/20	9.52E+04	4.70E+04	1.47E+05	4.74E+04	1.46E+05	-9.55E+05	1.02E+06
1/15	9.69E+04	3.26E+04	1.65E+05	3.33E+04	1.64E+05	-9.53E+05	1.01E+06
1/10	1.01E+05	9.90E+03	1.93E+05	1.15E+04	1.91E+05	-8.90E+05	9.08E+05

Table R–284. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.65E+04	7.03E+04	1.02E+05	7.04E+04	1.02E+05	-9.64E+05	9.55E+05
1/20	8.18E+04	3.26E+04	1.30E+05	3.28E+04	1.30E+05	-9.80E+05	9.57E+05
1/15	7.78E+04	1.14E+04	1.42E+05	1.17E+04	1.42E+05	-9.92E+05	9.62E+05
1/10	6.62E+04	-3.62E+04	1.64E+05	-3.57E+04	1.64E+05	-1.02E+06	9.78E+05

Table R–285. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.63E+04	7.02E+04	1.02E+05	7.02E+04	1.02E+05	-9.63E+05	9.43E+05
1/20	8.14E+04	3.50E+04	1.27E+05	3.52E+04	1.27E+05	-9.24E+05	9.08E+05
1/15	7.73E+04	1.77E+04	1.37E+05	1.79E+04	1.37E+05	-8.90E+05	8.96E+05
1/10	6.57E+04	-1.12E+04	1.53E+05	-1.07E+04	1.52E+05	-7.64E+05	8.67E+05

Table R–286. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.61E+04	6.88E+04	1.03E+05	6.89E+04	1.03E+05	-1.04E+06	1.01E+06
1/20	8.03E+04	3.06E+04	1.29E+05	3.09E+04	1.29E+05	-9.88E+05	9.75E+05
1/15	7.62E+04	1.24E+04	1.39E+05	1.28E+04	1.39E+05	-9.51E+05	9.44E+05
1/10	7.71E+04	-1.31E+04	7.97E+05	-5.33E+03	2.33E+05	-8.25E+05	1.56E+06

Table R–287. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–288. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.11E+04	7.56E+04	1.07E+05	7.57E+04	1.07E+05	-9.25E+05	9.59E+05
1/20	8.30E+04	4.36E+04	1.27E+05	4.39E+04	1.26E+05	-7.83E+05	8.62E+05
1/15	7.91E+04	2.93E+04	1.37E+05	2.95E+04	1.36E+05	-7.43E+05	8.57E+05
1/10	—	—	—	—	—	—	—

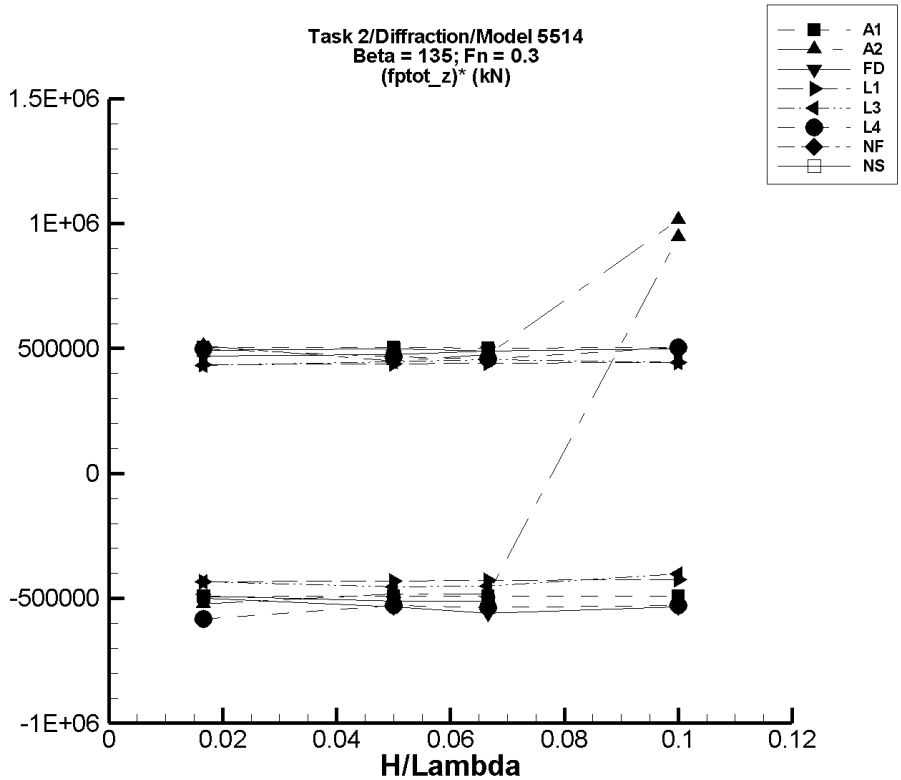

Figure R–37. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–289. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.35E+04	1.01E+05	8.37E+04	1.00E+05	-4.93E+05	5.05E+05
1/20	9.20E+04	6.67E+04	1.18E+05	6.74E+04	1.17E+05	-4.91E+05	5.03E+05
1/15	9.20E+04	5.84E+04	1.26E+05	5.92E+04	1.25E+05	-4.91E+05	5.03E+05
1/10	9.20E+04	4.15E+04	1.43E+05	4.28E+04	1.42E+05	-4.91E+05	5.03E+05

Table R–290. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.33E+04	1.01E+05	8.35E+04	1.01E+05	-5.22E+05	5.11E+05
1/20	9.48E+04	6.99E+04	1.18E+05	7.06E+04	1.17E+05	-4.83E+05	4.51E+05
1/15	9.70E+04	6.38E+04	1.29E+05	6.49E+04	1.29E+05	-4.81E+05	4.76E+05
1/10	-2.00E+04	7.45E+04	8.14E+04	7.45E+04	8.14E+04	9.46E+05	1.01E+06

Table R–291. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	8.41E+04	1.00E+05	8.41E+04	1.00E+05	-4.99E+05	4.71E+05
1/20	9.52E+04	6.86E+04	1.20E+05	6.85E+04	1.19E+05	-5.34E+05	4.76E+05
1/15	9.69E+04	5.96E+04	1.30E+05	5.95E+04	1.29E+05	-5.60E+05	4.89E+05
1/10	1.00E+05	4.71E+04	1.51E+05	4.68E+04	1.50E+05	-5.34E+05	4.97E+05

Table R–292. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.66E+04	7.94E+04	9.40E+04	7.94E+04	9.39E+04	-4.32E+05	4.36E+05
1/20	8.34E+04	6.17E+04	1.06E+05	6.19E+04	1.05E+05	-4.30E+05	4.39E+05
1/15	8.05E+04	5.17E+04	1.10E+05	5.20E+04	1.10E+05	-4.28E+05	4.40E+05
1/10	7.24E+04	2.94E+04	1.17E+05	2.98E+04	1.17E+05	-4.26E+05	4.43E+05

Table R–293. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.65E+04	7.92E+04	9.38E+04	7.92E+04	9.37E+04	-4.35E+05	4.33E+05
1/20	8.29E+04	6.00E+04	1.05E+05	6.02E+04	1.05E+05	-4.52E+05	4.48E+05
1/15	7.98E+04	4.94E+04	1.10E+05	4.97E+04	1.10E+05	-4.52E+05	4.54E+05
1/10	7.12E+04	3.09E+04	1.16E+05	3.11E+04	1.16E+05	-4.01E+05	4.45E+05

Table R–294. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	8.60E+04	7.60E+04	9.45E+04	7.63E+04	9.43E+04	-5.82E+05	4.99E+05
1/20	7.96E+04	5.29E+04	1.04E+05	5.32E+04	1.03E+05	-5.28E+05	4.66E+05
1/15	7.50E+04	3.89E+04	1.06E+05	3.93E+04	1.06E+05	-5.35E+05	4.58E+05
1/10	7.00E+04	1.62E+04	1.55E+05	1.72E+04	1.21E+05	-5.28E+05	5.05E+05

Table R–295. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–296. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.13E+04	8.30E+04	9.96E+04	8.31E+04	9.95E+04	-4.92E+05	4.93E+05
1/20	8.35E+04	5.77E+04	1.09E+05	5.80E+04	1.08E+05	-5.10E+05	5.00E+05
1/15	8.00E+04	4.54E+04	1.13E+05	4.58E+04	1.13E+05	-5.12E+05	4.89E+05
1/10	—	—	—	—	—	—	—

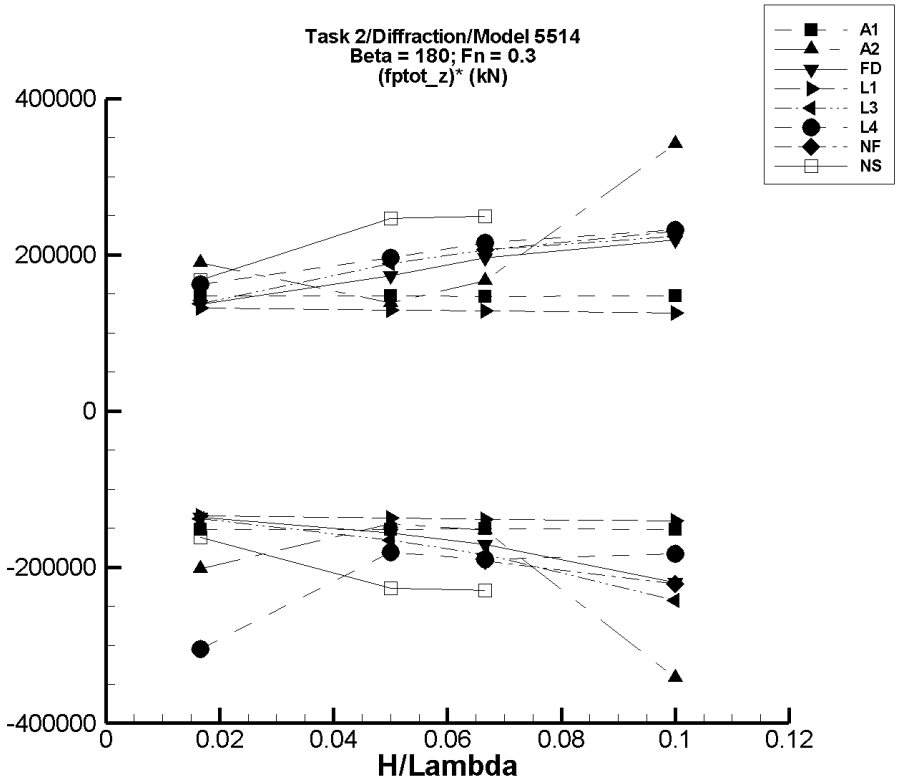

Figure R–38. Minimum and Maximum of $(F_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–297. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.20E+04	8.94E+04	9.45E+04	8.95E+04	9.45E+04	-1.52E+05	1.47E+05
1/20	9.21E+04	8.42E+04	9.97E+04	8.45E+04	9.94E+04	-1.51E+05	1.47E+05
1/15	9.21E+04	8.17E+04	1.02E+05	8.20E+04	1.02E+05	-1.51E+05	1.47E+05
1/10	9.22E+04	7.65E+04	1.07E+05	7.70E+04	1.07E+05	-1.51E+05	1.47E+05

Table R–298. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.22E+04	8.87E+04	9.55E+04	8.88E+04	9.54E+04	-2.02E+05	1.89E+05
1/20	9.50E+04	8.73E+04	1.02E+05	8.77E+04	1.02E+05	-1.45E+05	1.38E+05
1/15	9.73E+04	8.65E+04	1.09E+05	8.72E+04	1.08E+05	-1.52E+05	1.67E+05
1/10	8.59E+04	-1.27E+03	1.26E+05	5.17E+04	1.20E+05	-3.42E+05	3.42E+05

Table R–299. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.24E+04	9.00E+04	9.47E+04	9.01E+04	9.46E+04	-1.36E+05	1.36E+05
1/20	9.52E+04	8.71E+04	1.04E+05	8.74E+04	1.04E+05	-1.56E+05	1.74E+05
1/15	9.68E+04	8.51E+04	1.10E+05	8.54E+04	1.10E+05	-1.71E+05	1.96E+05
1/10	1.00E+05	7.73E+04	1.23E+05	7.82E+04	1.22E+05	-2.20E+05	2.19E+05

Table R–300. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\text{ptot}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	8.68E+04	8.45E+04	8.90E+04	8.45E+04	8.90E+04	-1.35E+05	1.32E+05
1/20	8.46E+04	7.77E+04	9.12E+04	7.78E+04	9.11E+04	-1.37E+05	1.29E+05
1/15	8.28E+04	7.34E+04	9.14E+04	7.35E+04	9.13E+04	-1.38E+05	1.28E+05
1/10	7.74E+04	6.31E+04	9.01E+04	6.33E+04	9.00E+04	-1.41E+05	1.26E+05

Table R–301. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\text{ptot}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	8.66E+04	8.43E+04	8.89E+04	8.43E+04	8.89E+04	-1.38E+05	1.38E+05
1/20	8.41E+04	7.57E+04	9.37E+04	7.58E+04	9.35E+04	-1.65E+05	1.89E+05
1/15	8.21E+04	6.97E+04	9.61E+04	6.99E+04	9.59E+04	-1.84E+05	2.06E+05
1/10	7.63E+04	5.16E+04	9.90E+04	5.21E+04	9.87E+04	-2.43E+05	2.24E+05

Table R–302. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{ptot} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\text{ptot}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	8.60E+04	8.07E+04	8.88E+04	8.09E+04	8.87E+04	-3.05E+05	1.63E+05
1/20	8.05E+04	7.11E+04	9.12E+04	7.14E+04	9.03E+04	-1.81E+05	1.96E+05
1/15	7.67E+04	6.34E+04	9.19E+04	6.40E+04	9.10E+04	-1.90E+05	2.15E+05
1/10	6.79E+04	3.31E+04	1.15E+05	4.96E+04	9.11E+04	-1.83E+05	2.32E+05

Table R–303. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	8.86E+04	7.95E+04	9.92E+04	8.00E+04	9.83E+04	-1.72E+05	1.96E+05
1/15	9.13E+04	7.78E+04	1.06E+05	7.84E+04	1.05E+05	-1.93E+05	2.06E+05
1/10	9.27E+04	6.93E+04	1.16E+05	7.06E+04	1.16E+05	-2.21E+05	2.30E+05

Table R–304. Minimum and Maximum of F_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{ptot}} \rangle$ Mean (kN)	Unfiltered F_z^{ptot} Min. (kN)	Unfiltered F_z^{ptot} Max. (kN)	Filtered F_z^{ptot} Min. (kN)	Filtered F_z^{ptot} Max. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{ptot}}\right)^*$ Max. (kN)
1/60	9.13E+04	8.86E+04	9.42E+04	8.87E+04	9.41E+04	-1.61E+05	1.68E+05
1/20	8.41E+04	7.26E+04	9.66E+04	7.28E+04	9.64E+04	-2.27E+05	2.46E+05
1/15	8.17E+04	6.63E+04	9.85E+04	6.64E+04	9.83E+04	-2.30E+05	2.49E+05
1/10	—	—	—	—	—	—	—

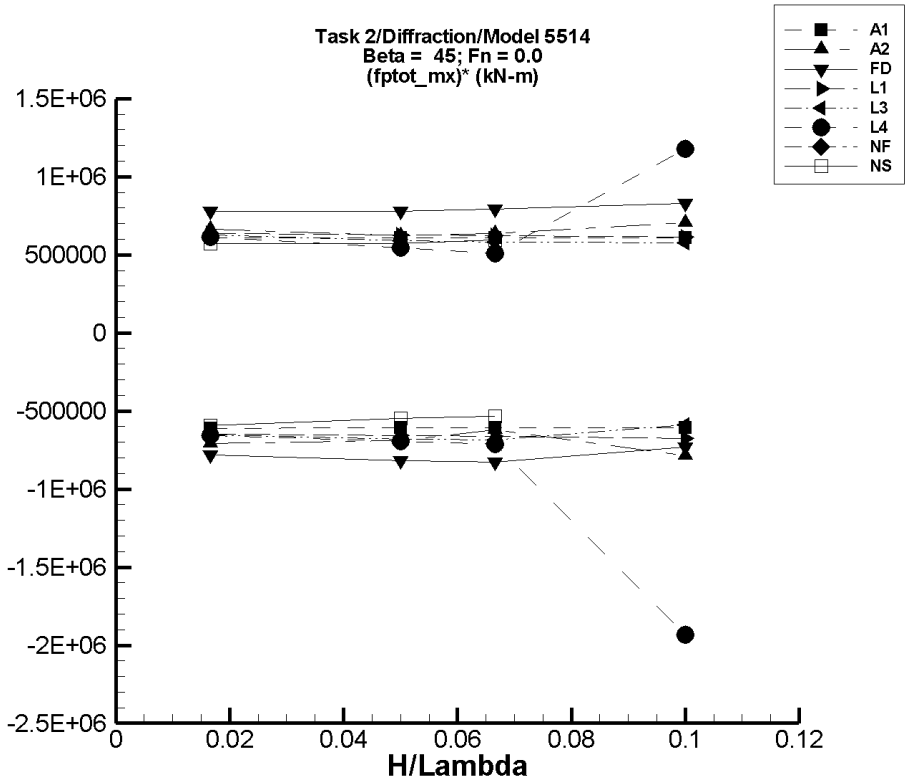

Figure R–39. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–305. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	5.36	-1.03E+04	1.03E+04	-1.02E+04	1.02E+04	-6.10E+05	6.10E+05
1/20	16.0	-3.08E+04	3.08E+04	-3.04E+04	3.04E+04	-6.08E+05	6.08E+05
1/15	21.3	-4.09E+04	4.10E+04	-4.05E+04	4.05E+04	-6.07E+05	6.07E+05
1/10	32.0	-6.15E+04	6.15E+04	-6.08E+04	6.09E+04	-6.08E+05	6.08E+05

Table R–306. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	-9.40	-1.20E+04	1.13E+04	-1.18E+04	1.11E+04	-7.09E+05	6.65E+05
1/20	-318.	-3.53E+04	3.09E+04	-3.48E+04	3.07E+04	-6.89E+05	6.21E+05
1/15	-392.	-4.88E+04	4.26E+04	-4.16E+04	4.21E+04	-6.19E+05	6.38E+05
1/10	6.45E+03	-2.26E+05	2.26E+05	-7.22E+04	7.71E+04	-7.86E+05	7.07E+05

Table R–307. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	-3.26	-1.32E+04	1.30E+04	-1.30E+04	1.30E+04	-7.81E+05	7.79E+05
1/20	-22.4	-4.14E+04	3.94E+04	-4.09E+04	3.90E+04	-8.18E+05	7.80E+05
1/15	-63.1	-5.63E+04	5.34E+04	-5.53E+04	5.29E+04	-8.29E+05	7.95E+05
1/10	-337.	-7.35E+04	8.42E+04	-7.33E+04	8.28E+04	-7.30E+05	8.31E+05

Table R–308. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	407.	-1.04E+04	1.10E+04	-1.04E+04	1.10E+04	-6.46E+05	6.35E+05
1/20	3.66E+03	-2.93E+04	3.51E+04	-2.92E+04	3.50E+04	-6.57E+05	6.26E+05
1/15	6.51E+03	-3.79E+04	4.81E+04	-3.77E+04	4.80E+04	-6.63E+05	6.22E+05
1/10	1.46E+04	-5.32E+04	7.64E+04	-5.28E+04	7.62E+04	-6.75E+05	6.15E+05

Table R–309. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	404.	-1.06E+04	1.09E+04	-1.05E+04	1.08E+04	-6.55E+05	6.26E+05
1/20	3.62E+03	-3.05E+04	3.33E+04	-3.04E+04	3.32E+04	-6.80E+05	5.92E+05
1/15	6.38E+03	-3.95E+04	4.54E+04	-3.92E+04	4.53E+04	-6.84E+05	5.83E+05
1/10	1.43E+04	-4.45E+04	7.22E+04	-4.44E+04	7.19E+04	-5.87E+05	5.76E+05

Table R–310. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-219.	-1.18E+04	1.03E+04	-1.12E+04	1.00E+04	-6.56E+05	6.16E+05
1/20	-2.84E+03	-3.90E+04	2.52E+04	-3.76E+04	2.43E+04	-6.95E+05	5.44E+05
1/15	-6.36E+03	-5.68E+04	2.94E+04	-5.38E+04	2.76E+04	-7.11E+05	5.10E+05
1/10	-5.96E+04	-3.96E+05	2.11E+05	-2.53E+05	5.83E+04	-1.93E+06	1.18E+06

Table R–311. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–312. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Max. (kN-m)
1/60	-366.	-1.04E+04	9.34E+03	-1.02E+04	9.20E+03	-5.93E+05	5.74E+05
1/20	-3.94E+03	-3.16E+04	2.51E+04	-3.13E+04	2.47E+04	-5.47E+05	5.74E+05
1/15	-8.59E+03	-4.42E+04	3.15E+04	-4.41E+04	3.10E+04	-5.33E+05	5.95E+05
1/10	—	—	—	—	—	—	—

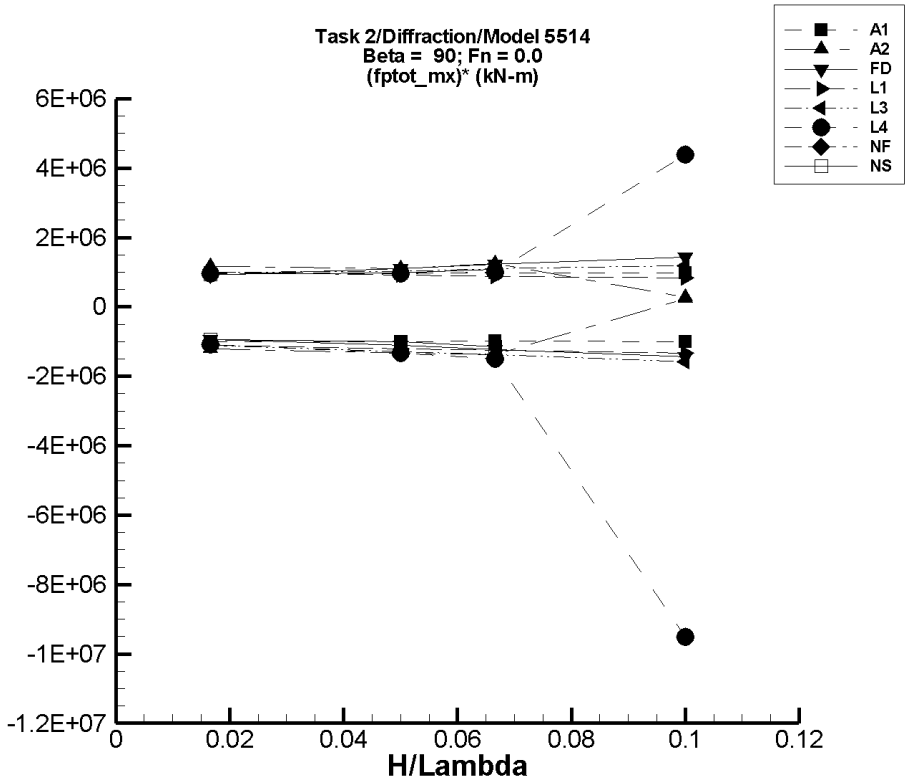

Figure R–40. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–313. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	19.5	-1.66E+04	1.66E+04	-1.66E+04	1.64E+04	-9.97E+05	9.82E+05
1/20	58.2	-4.96E+04	4.96E+04	-4.97E+04	4.90E+04	-9.95E+05	9.80E+05
1/15	77.6	-6.61E+04	6.60E+04	-6.61E+04	6.53E+04	-9.93E+05	9.78E+05
1/10	116.	-9.92E+04	9.92E+04	-9.94E+04	9.81E+04	-9.95E+05	9.80E+05

Table R–314. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	4.15	-2.04E+04	1.98E+04	-2.00E+04	1.95E+04	-1.20E+06	1.17E+06
1/20	-106.	-1.33E+05	6.47E+04	-6.67E+04	5.50E+04	-1.33E+06	1.10E+06
1/15	232.	-9.48E+04	8.60E+04	-9.22E+04	8.34E+04	-1.39E+06	1.25E+06
1/10	-6.70E+03	1.58E+04	2.02E+04	1.58E+04	2.02E+04	2.25E+05	2.69E+05

Table R–315. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	2.19	-1.57E+04	1.55E+04	-1.58E+04	1.53E+04	-9.47E+05	9.18E+05
1/20	83.7	-5.58E+04	5.43E+04	-5.48E+04	5.47E+04	-1.10E+06	1.09E+06
1/15	166.	-8.47E+04	8.24E+04	-8.25E+04	8.15E+04	-1.24E+06	1.22E+06
1/10	26.6	-1.48E+05	1.45E+05	-1.43E+05	1.44E+05	-1.43E+06	1.44E+06

Table R–316. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	798.	-1.76E+04	1.76E+04	-1.76E+04	1.76E+04	-1.11E+06	1.01E+06
1/20	7.12E+03	-5.30E+04	5.30E+04	-5.29E+04	5.29E+04	-1.20E+06	9.16E+05
1/15	1.26E+04	-7.08E+04	7.11E+04	-7.05E+04	7.10E+04	-1.25E+06	8.76E+05
1/10	2.84E+04	-1.07E+05	1.12E+05	-1.06E+05	1.11E+05	-1.34E+06	8.29E+05

Table R–317. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	799.	-1.79E+04	1.76E+04	-1.78E+04	1.76E+04	-1.11E+06	1.01E+06
1/20	7.12E+03	-5.74E+04	5.88E+04	-5.70E+04	5.85E+04	-1.28E+06	1.03E+06
1/15	1.26E+04	-8.02E+04	8.71E+04	-7.96E+04	8.66E+04	-1.38E+06	1.11E+06
1/10	2.82E+04	-1.32E+05	1.49E+05	-1.30E+05	1.48E+05	-1.58E+06	1.19E+06

Table R–318. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-247.	-1.95E+04	1.60E+04	-1.82E+04	1.57E+04	-1.08E+06	9.59E+05
1/20	-6.04E+03	-7.63E+04	4.45E+04	-7.32E+04	4.14E+04	-1.34E+06	9.49E+05
1/15	-1.36E+04	-1.23E+05	5.60E+04	-1.14E+05	5.23E+04	-1.51E+06	9.89E+05
1/10	-9.50E+04	-3.08E+06	3.05E+05	-1.05E+06	3.43E+05	-9.51E+06	4.38E+06

Table R–319. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–320. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-537.	-1.64E+04	1.53E+04	-1.62E+04	1.52E+04	-9.40E+05	9.43E+05
1/20	-5.60E+03	-5.64E+04	4.38E+04	-5.55E+04	4.29E+04	-9.98E+05	9.71E+05
1/15	-1.20E+04	-8.91E+04	6.11E+04	-8.83E+04	6.01E+04	-1.14E+06	1.08E+06
1/10	—	—	—	—	—	—	—

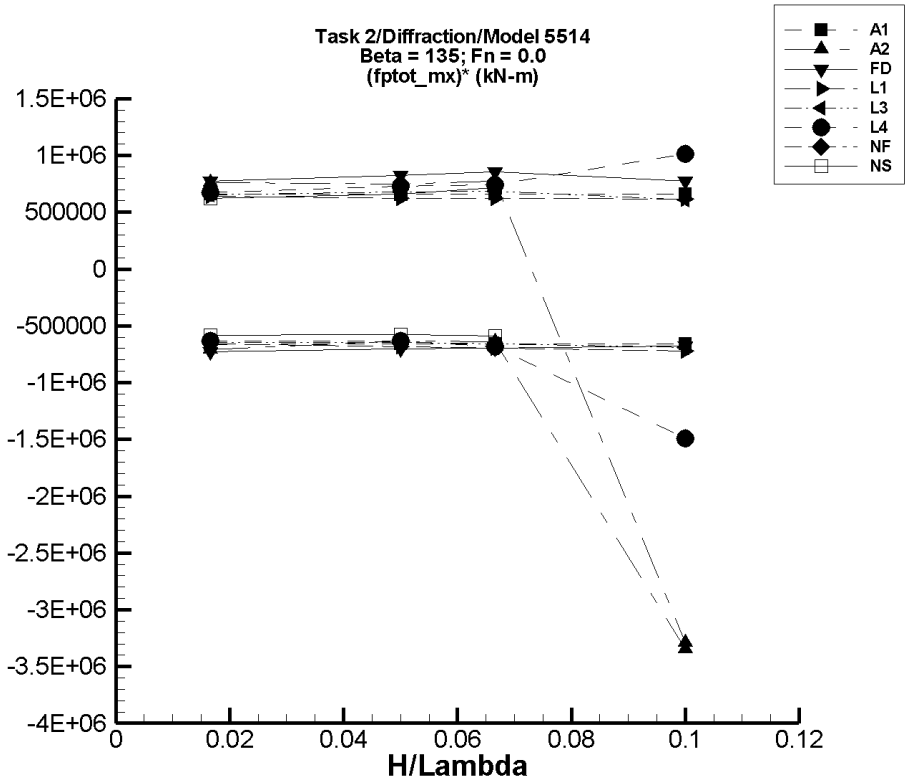

Figure R–41. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–321. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	11.9	-1.11E+04	1.11E+04	-1.10E+04	1.10E+04	-6.63E+05	6.60E+05
1/20	35.7	-3.34E+04	3.33E+04	-3.30E+04	3.29E+04	-6.61E+05	6.58E+05
1/15	47.5	-4.44E+04	4.44E+04	-4.39E+04	4.39E+04	-6.60E+05	6.57E+05
1/10	71.3	-6.67E+04	6.66E+04	-6.60E+04	6.59E+04	-6.61E+05	6.58E+05

Table R–322. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	-1.51	-1.27E+04	1.28E+04	-1.18E+04	1.27E+04	-7.07E+05	7.59E+05
1/20	391.	-3.15E+04	3.81E+04	-3.13E+04	3.77E+04	-6.34E+05	7.46E+05
1/15	235.	-4.25E+04	5.41E+04	-4.23E+04	5.16E+04	-6.38E+05	7.71E+05
1/10	2.93E+05	-4.19E+04	-3.66E+04	-4.19E+04	-3.66E+04	-3.35E+06	-3.29E+06

Table R–323. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	1.59	-1.23E+04	1.30E+04	-1.22E+04	1.28E+04	-7.30E+05	7.71E+05
1/20	42.0	-3.52E+04	4.18E+04	-3.50E+04	4.13E+04	-7.01E+05	8.25E+05
1/15	172.	-4.66E+04	5.82E+04	-4.63E+04	5.73E+04	-6.97E+05	8.57E+05
1/10	436.	-6.81E+04	7.91E+04	-6.76E+04	7.78E+04	-6.81E+05	7.74E+05

Table R–324. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	417.	-1.06E+04	1.11E+04	-1.06E+04	1.11E+04	-6.59E+05	6.39E+05
1/20	3.75E+03	-3.06E+04	3.51E+04	-3.04E+04	3.50E+04	-6.83E+05	6.24E+05
1/15	6.67E+03	-4.00E+04	4.81E+04	-3.98E+04	4.80E+04	-6.96E+05	6.20E+05
1/10	1.50E+04	-5.78E+04	7.69E+04	-5.74E+04	7.66E+04	-7.24E+05	6.16E+05

Table R–325. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	421.	-1.04E+04	1.14E+04	-1.03E+04	1.13E+04	-6.45E+05	6.54E+05
1/20	3.81E+03	-2.85E+04	3.78E+04	-2.84E+04	3.76E+04	-6.45E+05	6.76E+05
1/15	6.83E+03	-3.72E+04	5.29E+04	-3.70E+04	5.27E+04	-6.58E+05	6.88E+05
1/10	1.54E+04	-5.35E+04	7.69E+04	-5.37E+04	7.64E+04	-6.91E+05	6.10E+05

Table R–326. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-126.	-1.10E+04	1.14E+04	-1.07E+04	1.11E+04	-6.35E+05	6.74E+05
1/20	-2.28E+03	-3.47E+04	3.57E+04	-3.40E+04	3.43E+04	-6.34E+05	7.31E+05
1/15	-5.39E+03	-5.21E+04	4.61E+04	-5.10E+04	4.42E+04	-6.85E+05	7.45E+05
1/10	-5.24E+04	-5.67E+05	7.08E+04	-2.02E+05	4.88E+04	-1.49E+06	1.01E+06

Table R–327. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–328. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-361.	-1.02E+04	1.01E+04	-1.01E+04	1.00E+04	-5.86E+05	6.22E+05
1/20	-3.88E+03	-3.33E+04	2.95E+04	-3.27E+04	2.91E+04	-5.77E+05	6.60E+05
1/15	-8.53E+03	-4.84E+04	3.96E+04	-4.80E+04	3.91E+04	-5.91E+05	7.14E+05
1/10	—	—	—	—	—	—	—

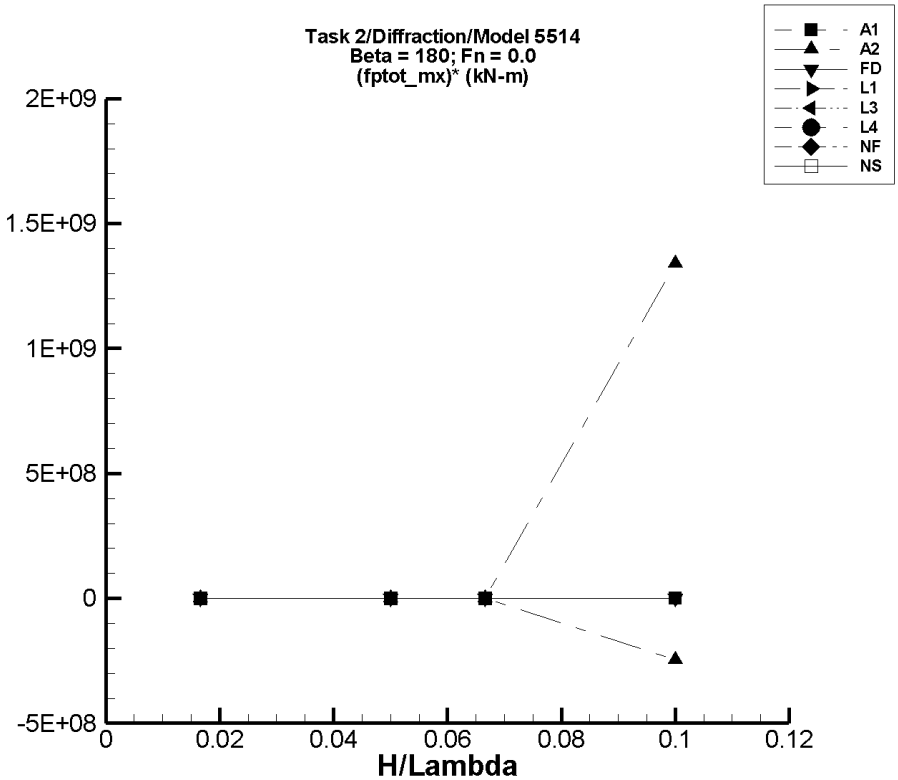

Figure R–42. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–329. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-3.71E-03	-1.53	1.55	-1.50	1.54	-90.0	92.3
1/20	-1.11E-02	-4.57	4.65	-4.50	4.59	-89.8	92.1
1/15	-1.48E-02	-6.08	6.19	-5.99	6.11	-89.7	91.9
1/10	-2.22E-02	-9.13	9.29	-9.00	9.18	-89.8	92.1

Table R–330. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-3.68E-03	-1.53	1.55	-1.51	1.54	-90.1	92.4
1/20	-182.	-3.09E+04	4.65	-4.12E+03	357.	-7.88E+04	1.08E+04
1/15	421.	-6.08	3.90E+04	-455.	5.28E+03	-1.31E+04	7.29E+04
1/10	1.20E+07	-3.03E+05	1.09E+09	-1.25E+07	1.46E+08	-2.45E+08	1.34E+09

Table R–331. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	6.02E-05	-5.76E-03	8.37E-03	-1.03E-03	2.12E-03	-6.57E-02	0.124
1/20	5.84E-05	-1.62E-02	2.47E-02	-4.46E-03	6.39E-03	-9.05E-02	0.127
1/15	8.41E-05	-2.21E-02	3.27E-02	-6.60E-03	8.67E-03	-0.100	0.129
1/10	3.18E-04	-3.72E-02	4.89E-02	-8.65E-03	1.28E-02	-8.97E-02	0.125

Table R–332. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

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

Table R–333. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

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

Table R–334. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

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

Table R–335. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–336. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.64E-04	-9.34E-02	8.86E-02	-5.37E-03	4.89E-03	-0.344	0.272
1/20	-8.67E-05	-0.327	0.346	-1.55E-02	1.12E-02	-0.309	0.226
1/15	1.14E-03	-0.378	0.355	-1.96E-02	2.62E-02	-0.312	0.376
1/10	—	—	—	—	—	—	—

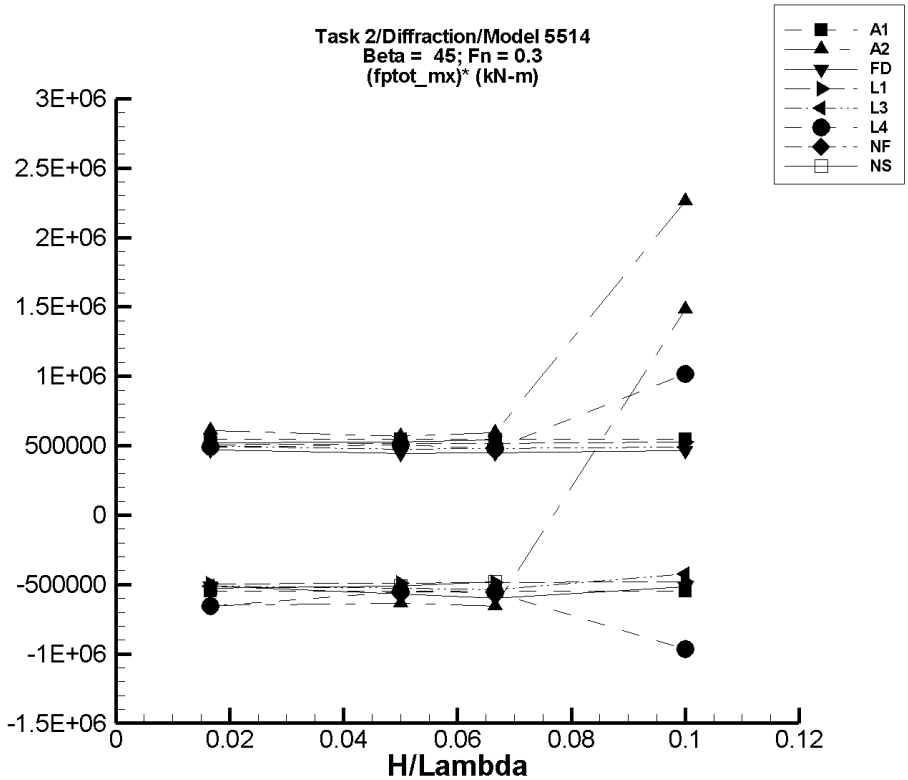

Figure R–43. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–337. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	6.39	-9.18E+03	9.18E+03	-9.15E+03	9.15E+03	-5.50E+05	5.49E+05
1/20	19.1	-2.75E+04	2.75E+04	-2.74E+04	2.74E+04	-5.48E+05	5.47E+05
1/15	25.4	-3.66E+04	3.66E+04	-3.65E+04	3.65E+04	-5.47E+05	5.46E+05
1/10	38.2	-5.49E+04	5.49E+04	-5.48E+04	5.48E+04	-5.48E+05	5.47E+05

Table R–338. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	3.04	-1.09E+04	1.02E+04	-1.08E+04	1.02E+04	-6.50E+05	6.11E+05
1/20	-143.	-3.20E+04	2.84E+04	-3.18E+04	2.84E+04	-6.34E+05	5.70E+05
1/15	-86.3	-4.49E+04	3.97E+04	-4.37E+04	3.95E+04	-6.54E+05	5.94E+05
1/10	-1.50E+05	-974.	8.38E+04	-1.73E+03	7.61E+04	1.48E+06	2.26E+06

Table R–339. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	1.81	-8.54E+03	7.86E+03	-8.51E+03	7.85E+03	-5.11E+05	4.71E+05
1/20	-21.4	-2.84E+04	2.23E+04	-2.83E+04	2.23E+04	-5.66E+05	4.46E+05
1/15	-101.	-4.03E+04	2.98E+04	-4.01E+04	2.97E+04	-6.00E+05	4.47E+05
1/10	-326.	-5.25E+04	4.61E+04	-5.22E+04	4.60E+04	-5.19E+05	4.63E+05

Table R–340. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	656.	-7.65E+03	9.09E+03	-7.64E+03	9.08E+03	-4.98E+05	5.06E+05
1/20	5.90E+03	-1.86E+04	3.16E+04	-1.86E+04	3.16E+04	-4.90E+05	5.14E+05
1/15	1.05E+04	-2.19E+04	4.50E+04	-2.19E+04	4.50E+04	-4.86E+05	5.18E+05
1/10	2.36E+04	-2.42E+04	7.62E+04	-2.42E+04	7.62E+04	-4.78E+05	5.26E+05

Table R–341. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	651.	-7.86E+03	8.88E+03	-7.85E+03	8.88E+03	-5.10E+05	4.94E+05
1/20	5.84E+03	-2.06E+04	2.97E+04	-2.06E+04	2.97E+04	-5.29E+05	4.77E+05
1/15	1.04E+04	-2.55E+04	4.23E+04	-2.55E+04	4.24E+04	-5.38E+05	4.80E+05
1/10	2.32E+04	-1.94E+04	7.25E+04	-1.93E+04	7.24E+04	-4.25E+05	4.92E+05

Table R–342. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-3.67	-1.11E+04	8.74E+03	-1.10E+04	8.16E+03	-6.58E+05	4.90E+05
1/20	-2.06E+03	-3.00E+04	2.36E+04	-2.97E+04	2.31E+04	-5.53E+05	5.04E+05
1/15	-5.60E+03	-4.32E+04	2.77E+04	-4.27E+04	2.65E+04	-5.56E+05	4.82E+05
1/10	-4.56E+04	-5.12E+05	1.64E+05	-1.42E+05	5.59E+04	-9.67E+05	1.02E+06

Table R–343. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–344. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Max. (kN-m)
1/60	-360.	-9.21E+03	8.40E+03	-9.11E+03	8.32E+03	-5.25E+05	5.21E+05
1/20	-3.06E+03	-2.89E+04	2.36E+04	-2.87E+04	2.33E+04	-5.12E+05	5.26E+05
1/15	-5.46E+03	-3.75E+04	3.08E+04	-3.73E+04	3.05E+04	-4.78E+05	5.39E+05
1/10	—	—	—	—	—	—	—

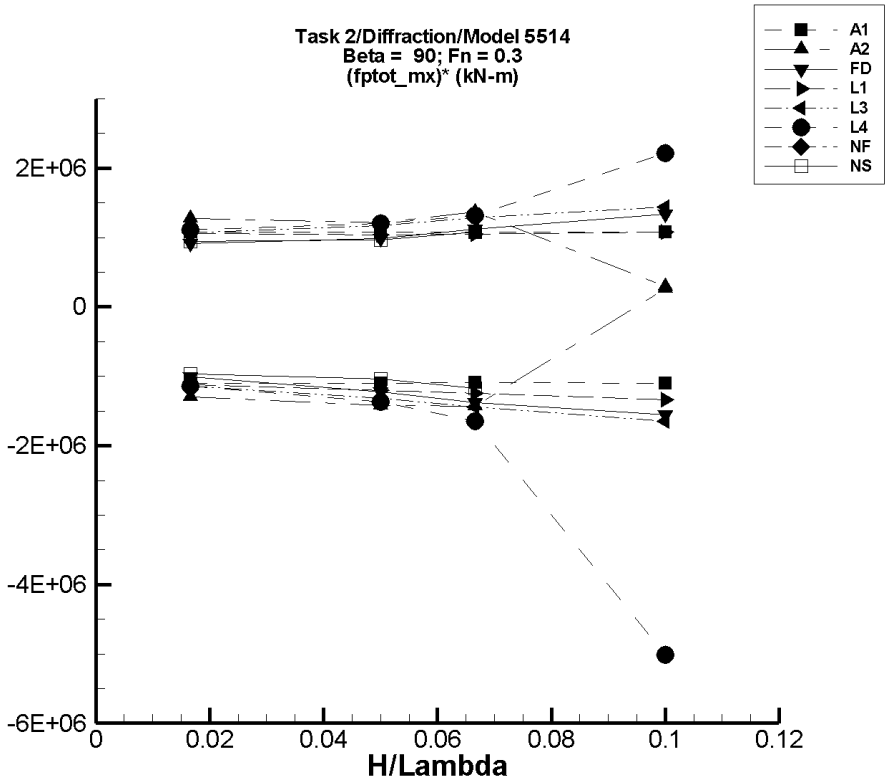

Figure R–44. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–345. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	13.3	-1.83E+04	1.83E+04	-1.83E+04	1.80E+04	-1.10E+06	1.08E+06
1/20	39.7	-5.47E+04	5.46E+04	-5.48E+04	5.40E+04	-1.10E+06	1.08E+06
1/15	52.9	-7.28E+04	7.27E+04	-7.29E+04	7.19E+04	-1.09E+06	1.08E+06
1/10	79.5	-1.09E+05	1.09E+05	-1.10E+05	1.08E+05	-1.10E+06	1.08E+06

Table R–346. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	-2.03	-2.19E+04	2.16E+04	-2.16E+04	2.13E+04	-1.29E+06	1.28E+06
1/20	-124.	-1.37E+05	6.64E+04	-7.10E+04	6.05E+04	-1.42E+06	1.21E+06
1/15	207.	-9.76E+04	9.38E+04	-9.50E+04	9.11E+04	-1.43E+06	1.36E+06
1/10	-3.14E+03	2.29E+04	2.64E+04	2.29E+04	2.64E+04	2.61E+05	2.95E+05

Table R–347. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{ptot}})^*$ Max. (kN-m)
1/60	2.31	-1.70E+04	1.53E+04	-1.67E+04	1.51E+04	-1.00E+06	9.08E+05
1/20	84.1	-6.21E+04	4.95E+04	-6.09E+04	4.96E+04	-1.22E+06	9.90E+05
1/15	167.	-9.41E+04	7.41E+04	-9.15E+04	7.46E+04	-1.37E+06	1.12E+06
1/10	27.3	-1.60E+05	1.33E+05	-1.55E+05	1.34E+05	-1.55E+06	1.34E+06

Table R–348. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	635.	-1.81E+04	1.84E+04	-1.81E+04	1.83E+04	-1.12E+06	1.06E+06
1/20	5.64E+03	-5.46E+04	5.78E+04	-5.43E+04	5.76E+04	-1.20E+06	1.04E+06
1/15	1.00E+04	-7.33E+04	7.99E+04	-7.28E+04	7.96E+04	-1.24E+06	1.04E+06
1/10	2.25E+04	-1.12E+05	1.31E+05	-1.11E+05	1.30E+05	-1.33E+06	1.08E+06

Table R–349. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	636.	-1.84E+04	1.85E+04	-1.84E+04	1.85E+04	-1.14E+06	1.07E+06
1/20	5.64E+03	-6.08E+04	6.46E+04	-6.05E+04	6.43E+04	-1.32E+06	1.17E+06
1/15	9.99E+03	-8.69E+04	9.62E+04	-8.63E+04	9.56E+04	-1.44E+06	1.28E+06
1/10	2.22E+04	-1.45E+05	1.67E+05	-1.43E+05	1.66E+05	-1.65E+06	1.44E+06

Table R–350. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-485.	-1.97E+04	1.84E+04	-1.95E+04	1.80E+04	-1.14E+06	1.11E+06
1/20	-6.21E+03	-7.54E+04	5.45E+04	-7.47E+04	5.38E+04	-1.37E+06	1.20E+06
1/15	-1.36E+04	-1.25E+05	7.46E+04	-1.23E+05	7.39E+04	-1.65E+06	1.31E+06
1/10	-4.81E+04	-3.27E+06	4.32E+05	-5.49E+05	1.73E+05	-5.01E+06	2.21E+06

Table R–351. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–352. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Max. (kN-m)
1/60	-439.	-1.67E+04	1.55E+04	-1.65E+04	1.53E+04	-9.64E+05	9.45E+05
1/20	-4.48E+03	-5.76E+04	4.46E+04	-5.65E+04	4.37E+04	-1.04E+06	9.64E+05
1/15	-9.52E+03	-8.85E+04	6.32E+04	-8.76E+04	6.22E+04	-1.17E+06	1.08E+06
1/10	—	—	—	—	—	—	—

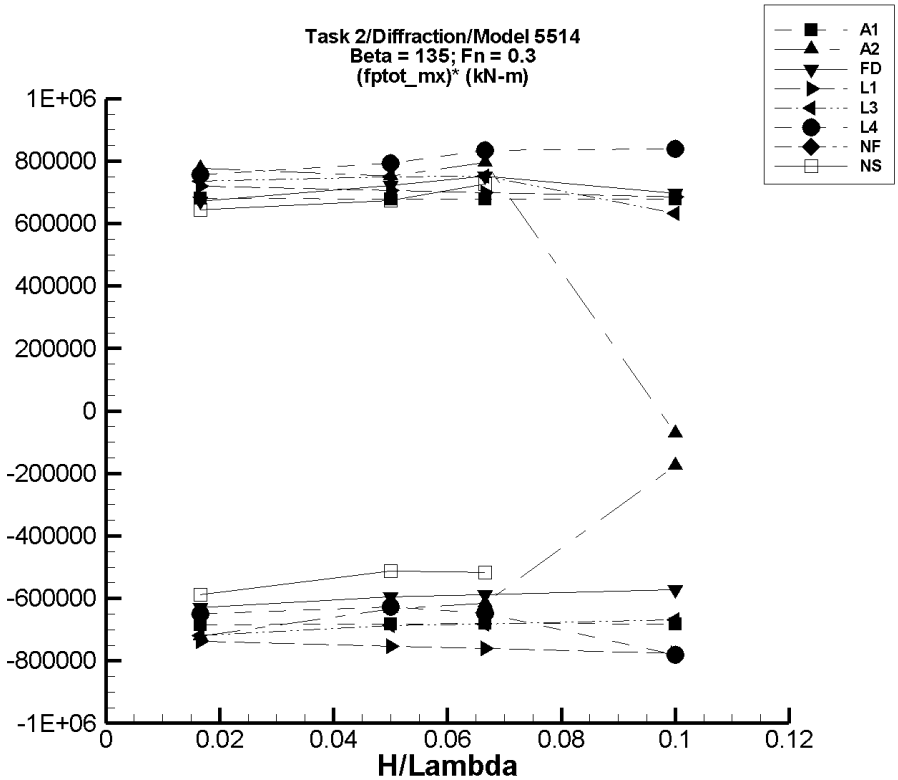

Figure R–45. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–353. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	22.2	-1.19E+04	1.17E+04	-1.14E+04	1.14E+04	-6.84E+05	6.81E+05
1/20	66.3	-3.55E+04	3.49E+04	-3.40E+04	3.40E+04	-6.82E+05	6.79E+05
1/15	88.2	-4.73E+04	4.65E+04	-4.53E+04	4.53E+04	-6.81E+05	6.78E+05
1/10	133.	-7.11E+04	6.98E+04	-6.80E+04	6.80E+04	-6.82E+05	6.79E+05

Table R–354. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	19.7	-1.25E+04	1.34E+04	-1.20E+04	1.30E+04	-7.21E+05	7.78E+05
1/20	1.37E+03	-3.14E+04	4.02E+04	-3.03E+04	3.90E+04	-6.34E+05	7.52E+05
1/15	-113.	-4.20E+04	5.68E+04	-4.11E+04	5.29E+04	-6.15E+05	7.96E+05
1/10	-1.37E+04	-3.12E+04	-2.10E+04	-3.12E+04	-2.10E+04	-1.75E+05	-7.30E+04

Table R–355. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_x^{ptot} Min. (kN-m)	Unfiltered M_x^{ptot} Max. (kN-m)	Filtered M_x^{ptot} Min. (kN-m)	Filtered M_x^{ptot} Max. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-2.47	-1.07E+04	1.15E+04	-1.05E+04	1.12E+04	-6.30E+05	6.71E+05
1/20	34.6	-3.02E+04	3.74E+04	-2.97E+04	3.61E+04	-5.95E+05	7.22E+05
1/15	141.	-3.98E+04	5.22E+04	-3.90E+04	5.03E+04	-5.88E+05	7.52E+05
1/10	470.	-5.78E+04	7.32E+04	-5.68E+04	7.02E+04	-5.73E+05	6.97E+05

Table R–356. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	434.	-1.20E+04	1.26E+04	-1.19E+04	1.24E+04	-7.38E+05	7.21E+05
1/20	3.82E+03	-3.42E+04	3.94E+04	-3.38E+04	3.91E+04	-7.53E+05	7.06E+05
1/15	6.76E+03	-4.45E+04	5.37E+04	-4.40E+04	5.33E+04	-7.61E+05	6.98E+05
1/10	1.52E+04	-6.33E+04	8.42E+04	-6.25E+04	8.36E+04	-7.77E+05	6.85E+05

Table R–357. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	437.	-1.16E+04	1.28E+04	-1.15E+04	1.27E+04	-7.18E+05	7.36E+05
1/20	3.86E+03	-3.08E+04	4.17E+04	-3.05E+04	4.14E+04	-6.88E+05	7.50E+05
1/15	6.86E+03	-3.90E+04	5.76E+04	-3.87E+04	5.70E+04	-6.83E+05	7.53E+05
1/10	1.55E+04	-5.18E+04	7.92E+04	-5.14E+04	7.87E+04	-6.69E+05	6.32E+05

Table R–358. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-200.	-1.17E+04	1.27E+04	-1.10E+04	1.24E+04	-6.50E+05	7.56E+05
1/20	-4.47E+03	-3.70E+04	3.59E+04	-3.58E+04	3.52E+04	-6.27E+05	7.94E+05
1/15	-9.86E+03	-5.39E+04	4.69E+04	-5.30E+04	4.58E+04	-6.47E+05	8.35E+05
1/10	-3.65E+04	-2.82E+05	5.62E+04	-1.15E+05	4.74E+04	-7.80E+05	8.39E+05

Table R–359. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–360. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-367.	-1.03E+04	1.05E+04	-1.02E+04	1.04E+04	-5.87E+05	6.44E+05
1/20	-4.24E+03	-3.05E+04	3.02E+04	-2.99E+04	2.95E+04	-5.13E+05	6.74E+05
1/15	-9.18E+03	-4.44E+04	4.00E+04	-4.37E+04	3.92E+04	-5.17E+05	7.26E+05
1/10	—	—	—	—	—	—	—

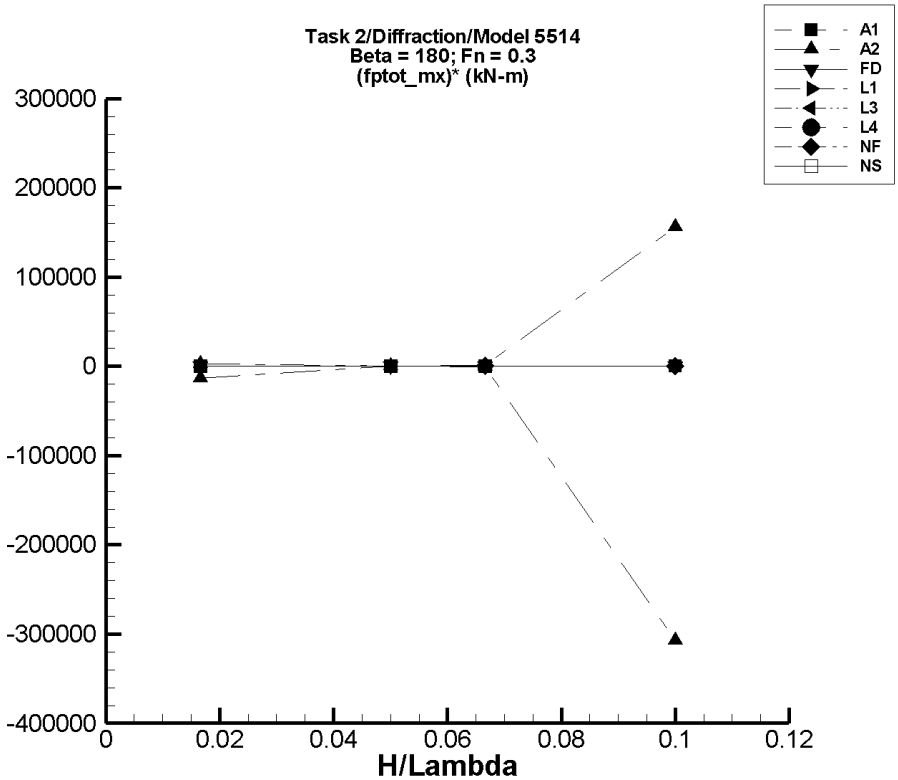

Figure R–46. Minimum and Maximum of $(M_x^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–361. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.70E-02	-0.351	0.321	-0.206	0.305	-13.4	17.3
1/20	5.10E-02	-1.05	0.961	-0.616	0.913	-13.3	17.2
1/15	6.79E-02	-1.40	1.28	-0.820	1.22	-13.3	17.2
1/10	0.102	-2.10	1.92	-1.23	1.83	-13.3	17.2

Table R–362. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-22.4	-1.84E+03	0.322	-245.	21.3	-1.34E+04	2.62E+03
1/20	5.06E-02	-1.04	0.962	-0.618	0.914	-13.4	17.3
1/15	10.7	-142.	713.	-7.51	76.3	-274.	984.
1/10	-1.06E+04	-3.04E+05	9.96E+03	-4.13E+04	5.02E+03	-3.07E+05	1.56E+05

Table R–363. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.47E-05	-4.79E-03	6.19E-03	-3.64E-03	4.23E-03	-0.214	0.258
1/20	-3.50E-04	-1.77E-02	1.39E-02	-1.27E-02	1.03E-02	-0.246	0.213
1/15	-3.53E-04	-3.67E-02	1.84E-02	-2.47E-02	1.36E-02	-0.365	0.210
1/10	8.96E-05	-0.212	0.183	-4.51E-02	4.34E-02	-0.452	0.433

Table R–364. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

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

Table R–365. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

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

Table R–366. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

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

Table R–367. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	-2.00	-2.84	-1.27	-2.80	-1.29	-16.0	14.1
1/15	-3.80	-5.17	-2.70	-4.80	-2.73	-15.0	16.1
1/10	-10.3	-20.0	7.23	-18.2	-9.69E-02	-78.6	102.

Table R–368. Minimum and Maximum of M_x^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-8.30E-05	-1.78E-02	2.46E-02	-2.79E-03	3.59E-03	-0.163	0.220
1/20	-1.51E-03	-6.16E-02	5.84E-02	-1.29E-02	5.44E-03	-0.228	0.139
1/15	-2.18E-03	-0.133	0.131	-2.10E-02	1.29E-02	-0.282	0.227
1/10	—	—	—	—	—	—	—

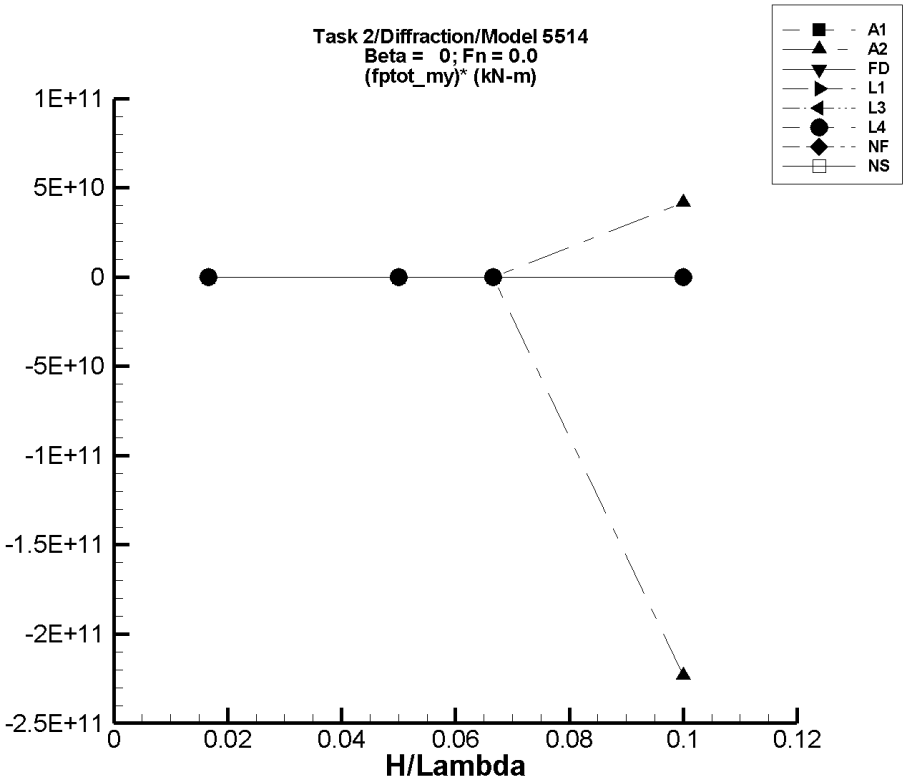

Figure R–47. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–369. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-48.5	-3.37E+05	3.41E+05	-3.34E+05	3.34E+05	-2.00E+07	2.01E+07
1/20	-145.	-1.01E+06	1.02E+06	-9.98E+05	1.00E+06	-2.00E+07	2.00E+07
1/15	-193.	-1.34E+06	1.36E+06	-1.33E+06	1.33E+06	-1.99E+07	2.00E+07
1/10	-290.	-2.02E+06	2.04E+06	-2.00E+06	2.00E+06	-2.00E+07	2.00E+07

Table R–370. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.64E+03	-3.24E+05	3.48E+05	-3.21E+05	3.42E+05	-1.96E+07	2.02E+07
1/20	3.58E+04	-8.07E+05	1.00E+06	-7.93E+05	9.84E+05	-1.66E+07	1.90E+07
1/15	2.66E+04	-1.00E+06	1.29E+06	-9.78E+05	1.18E+06	-1.51E+07	1.73E+07
1/10	-2.07E+09	-1.83E+11	1.67E+06	-2.44E+10	2.09E+09	-2.23E+11	4.16E+10

Table R–371. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.92E+04	-3.58E+05	4.06E+05	-3.58E+05	4.02E+05	-2.26E+07	2.30E+07
1/20	6.59E+04	-9.77E+05	1.21E+06	-9.78E+05	1.19E+06	-2.09E+07	2.26E+07
1/15	8.97E+04	-1.21E+06	1.57E+06	-1.20E+06	1.55E+06	-1.94E+07	2.19E+07
1/10	-1.61E+03	-1.53E+06	1.74E+06	-1.52E+06	1.71E+06	-1.52E+07	1.71E+07

Table R–372. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-2.78E+03	-3.01E+05	2.96E+05	-3.00E+05	2.94E+05	-1.78E+07	1.78E+07
1/20	-2.54E+04	-9.19E+05	8.70E+05	-9.16E+05	8.66E+05	-1.78E+07	1.78E+07
1/15	-4.52E+04	-1.24E+06	1.15E+06	-1.23E+06	1.14E+06	-1.78E+07	1.78E+07
1/10	-1.02E+05	-1.89E+06	1.69E+06	-1.88E+06	1.68E+06	-1.78E+07	1.79E+07

Table R–373. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-2.32E+03	-2.93E+05	2.92E+05	-2.92E+05	2.91E+05	-1.74E+07	1.76E+07
1/20	1.07E+04	-7.52E+05	8.09E+05	-7.44E+05	8.05E+05	-1.51E+07	1.59E+07
1/15	9.06E+03	-8.91E+05	9.72E+05	-8.81E+05	9.68E+05	-1.34E+07	1.44E+07
1/10	-1.13E+05	-9.71E+05	8.05E+05	-9.64E+05	8.00E+05	-8.51E+06	9.13E+06

Table R–374. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	309.	-3.02E+05	2.99E+05	-3.00E+05	2.97E+05	-1.80E+07	1.78E+07
1/20	4.47E+04	-8.89E+05	8.94E+05	-8.71E+05	8.86E+05	-1.83E+07	1.68E+07
1/15	8.43E+04	-1.10E+06	1.16E+06	-1.08E+06	1.15E+06	-1.74E+07	1.60E+07
1/10	9.22E+04	-1.95E+06	1.39E+06	-1.53E+06	1.37E+06	-1.63E+07	1.28E+07

Table R–375. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–376. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.87E+03	-3.69E+05	3.58E+05	-3.66E+05	3.54E+05	-2.15E+07	2.17E+07
1/20	-2.30E+05	-1.17E+06	7.06E+05	-1.16E+06	6.96E+05	-1.85E+07	1.85E+07
1/15	-2.46E+05	-1.49E+06	9.88E+05	-1.48E+06	9.80E+05	-1.85E+07	1.84E+07
1/10	—	—	—	—	—	—	—

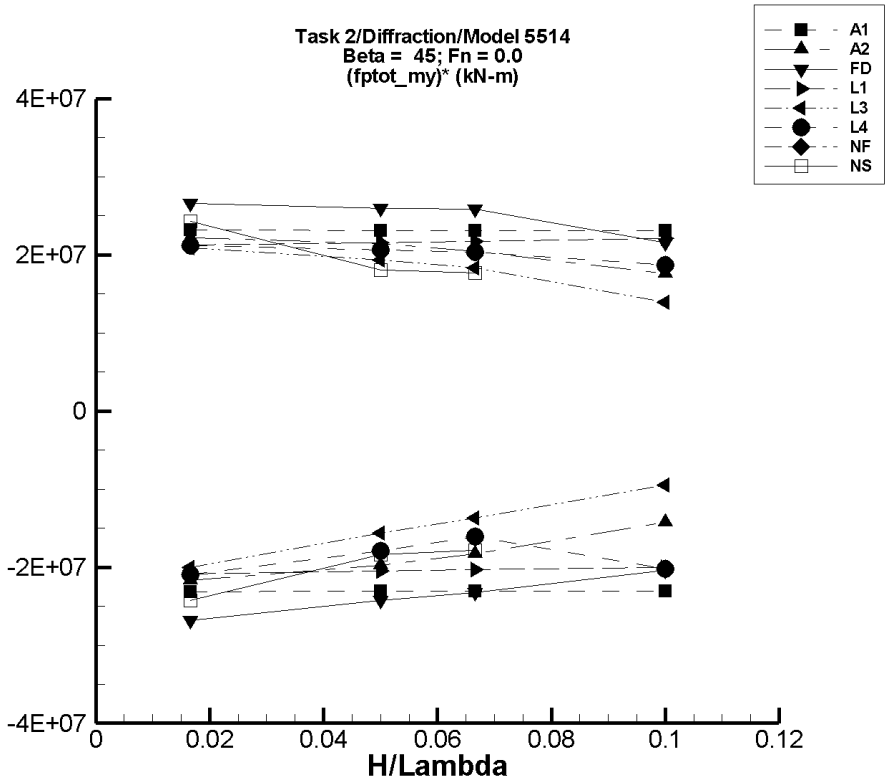

Figure R–48. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–377. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-243.	-3.91E+05	3.90E+05	-3.86E+05	3.86E+05	-2.32E+07	2.32E+07
1/20	-726.	-1.17E+06	1.17E+06	-1.16E+06	1.15E+06	-2.31E+07	2.31E+07
1/15	-967.	-1.56E+06	1.55E+06	-1.54E+06	1.54E+06	-2.31E+07	2.31E+07
1/10	-1.45E+03	-2.34E+06	2.34E+06	-2.31E+06	2.31E+06	-2.31E+07	2.31E+07

Table R–378. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.12E+03	-3.60E+05	3.79E+05	-3.56E+05	3.74E+05	-2.17E+07	2.21E+07
1/20	3.41E+04	-9.61E+05	1.12E+06	-9.52E+05	1.11E+06	-1.97E+07	2.15E+07
1/15	1.99E+04	-1.21E+06	1.45E+06	-1.20E+06	1.38E+06	-1.83E+07	2.04E+07
1/10	-3.85E+04	-2.85E+06	2.07E+06	-1.46E+06	1.72E+06	-1.43E+07	1.76E+07

Table R–379. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.93E+04	-4.23E+05	4.67E+05	-4.27E+05	4.62E+05	-2.68E+07	2.65E+07
1/20	6.56E+04	-1.13E+06	1.38E+06	-1.15E+06	1.36E+06	-2.42E+07	2.60E+07
1/15	8.68E+04	-1.45E+06	1.83E+06	-1.46E+06	1.81E+06	-2.33E+07	2.58E+07
1/10	-1.88E+03	-2.03E+06	2.18E+06	-2.05E+06	2.15E+06	-2.04E+07	2.15E+07

Table R–380. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.52E+03	-3.50E+05	3.54E+05	-3.49E+05	3.52E+05	-2.08E+07	2.12E+07
1/20	-1.16E+04	-1.04E+06	1.07E+06	-1.04E+06	1.07E+06	-2.05E+07	2.16E+07
1/15	-2.02E+04	-1.38E+06	1.44E+06	-1.38E+06	1.43E+06	-2.03E+07	2.17E+07
1/10	-4.43E+04	-2.05E+06	2.17E+06	-2.05E+06	2.16E+06	-2.00E+07	2.21E+07

Table R–381. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.02E+03	-3.37E+05	3.49E+05	-3.36E+05	3.48E+05	-2.01E+07	2.09E+07
1/20	2.59E+04	-7.59E+05	9.96E+05	-7.57E+05	9.92E+05	-1.57E+07	1.93E+07
1/15	3.60E+04	-8.79E+05	1.27E+06	-8.78E+05	1.26E+06	-1.37E+07	1.84E+07
1/10	-4.90E+04	-1.00E+06	1.35E+06	-1.00E+06	1.35E+06	-9.51E+06	1.39E+07

Table R–382. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.49E+03	-3.50E+05	3.58E+05	-3.47E+05	3.56E+05	-2.10E+07	2.12E+07
1/20	6.88E+04	-8.32E+05	1.11E+06	-8.26E+05	1.10E+06	-1.79E+07	2.06E+07
1/15	1.26E+05	-9.51E+05	1.50E+06	-9.48E+05	1.48E+06	-1.61E+07	2.03E+07
1/10	6.90E+04	-3.06E+06	1.98E+06	-1.95E+06	1.94E+06	-2.02E+07	1.87E+07

Table R–383. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–384. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.23E+03	-4.16E+05	4.01E+05	-4.12E+05	3.97E+05	-2.43E+07	2.43E+07
1/20	-2.19E+05	-1.15E+06	6.96E+05	-1.14E+06	6.83E+05	-1.83E+07	1.80E+07
1/15	-2.26E+05	-1.42E+06	9.61E+05	-1.41E+06	9.50E+05	-1.78E+07	1.76E+07
1/10	—	—	—	—	—	—	—

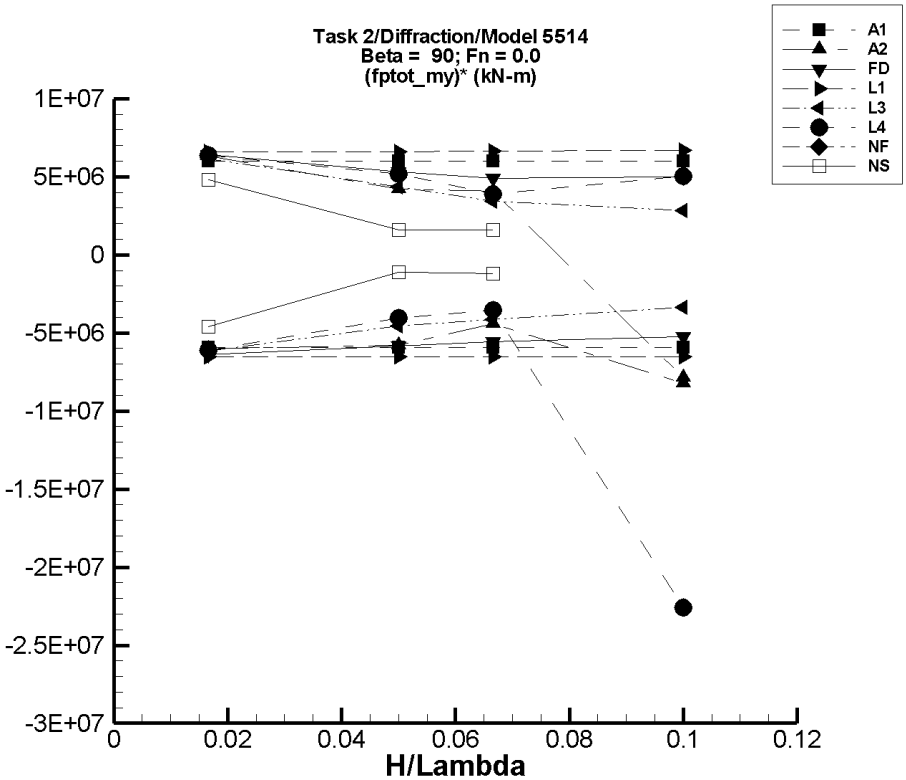

Figure R–49. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–385. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-369.	-1.01E+05	1.01E+05	-9.95E+04	9.99E+04	-5.95E+06	6.02E+06
1/20	-1.10E+03	-3.01E+05	3.01E+05	-2.98E+05	2.99E+05	-5.93E+06	6.00E+06
1/15	-1.47E+03	-4.01E+05	4.01E+05	-3.97E+05	3.98E+05	-5.93E+06	5.99E+06
1/10	-2.21E+03	-6.02E+05	6.02E+05	-5.96E+05	5.98E+05	-5.93E+06	6.00E+06

Table R–386. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.23E+03	-9.63E+04	1.10E+05	-9.51E+04	1.11E+05	-6.02E+06	6.32E+06
1/20	2.48E+04	-3.60E+05	5.32E+05	-2.65E+05	2.36E+05	-5.80E+06	4.22E+06
1/15	2.42E+04	-4.48E+05	3.12E+05	-2.71E+05	2.96E+05	-4.43E+06	4.08E+06
1/10	-1.90E+05	-1.01E+06	-9.78E+05	-1.01E+06	-9.78E+05	-8.21E+06	-7.88E+06

Table R–387. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.93E+04	-8.85E+04	1.27E+05	-8.72E+04	1.26E+05	-6.39E+06	6.42E+06
1/20	6.65E+04	-2.34E+05	3.36E+05	-2.26E+05	3.33E+05	-5.85E+06	5.32E+06
1/15	9.12E+04	-2.92E+05	4.26E+05	-2.80E+05	4.18E+05	-5.56E+06	4.90E+06
1/10	1.09E+04	-5.39E+05	5.36E+05	-5.13E+05	5.08E+05	-5.24E+06	4.97E+06

Table R–388. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-886.	-1.10E+05	1.09E+05	-1.10E+05	1.09E+05	-6.55E+06	6.58E+06
1/20	-7.55E+03	-3.35E+05	3.24E+05	-3.34E+05	3.23E+05	-6.53E+06	6.61E+06
1/15	-1.33E+04	-4.50E+05	4.31E+05	-4.48E+05	4.29E+05	-6.53E+06	6.63E+06
1/10	-2.98E+04	-6.84E+05	6.41E+05	-6.82E+05	6.38E+05	-6.52E+06	6.68E+06

Table R–389. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-338.	-1.04E+05	1.03E+05	-1.03E+05	1.02E+05	-6.17E+06	6.15E+06
1/20	3.10E+04	-2.00E+05	2.48E+05	-1.97E+05	2.47E+05	-4.57E+06	4.33E+06
1/15	4.56E+04	-2.36E+05	2.76E+05	-2.31E+05	2.74E+05	-4.15E+06	3.43E+06
1/10	-2.77E+04	-3.70E+05	2.61E+05	-3.64E+05	2.54E+05	-3.36E+06	2.81E+06

Table R–390. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.99E+03	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-6.11E+06	6.35E+06
1/20	1.95E+04	-2.01E+05	2.87E+05	-1.83E+05	2.78E+05	-4.04E+06	5.17E+06
1/15	3.38E+04	-2.25E+05	3.19E+05	-2.01E+05	2.92E+05	-3.52E+06	3.88E+06
1/10	-2.28E+05	-7.18E+06	1.60E+06	-2.49E+06	2.75E+05	-2.26E+07	5.04E+06

Table R–391. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–392. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.30E+03	-8.40E+04	7.47E+04	-8.30E+04	7.35E+04	-4.60E+06	4.79E+06
1/20	-2.07E+05	-2.73E+05	-1.24E+05	-2.62E+05	-1.27E+05	-1.09E+06	1.60E+06
1/15	-2.06E+05	-3.01E+05	-9.13E+04	-2.85E+05	-9.88E+04	-1.19E+06	1.60E+06
1/10	—	—	—	—	—	—	—

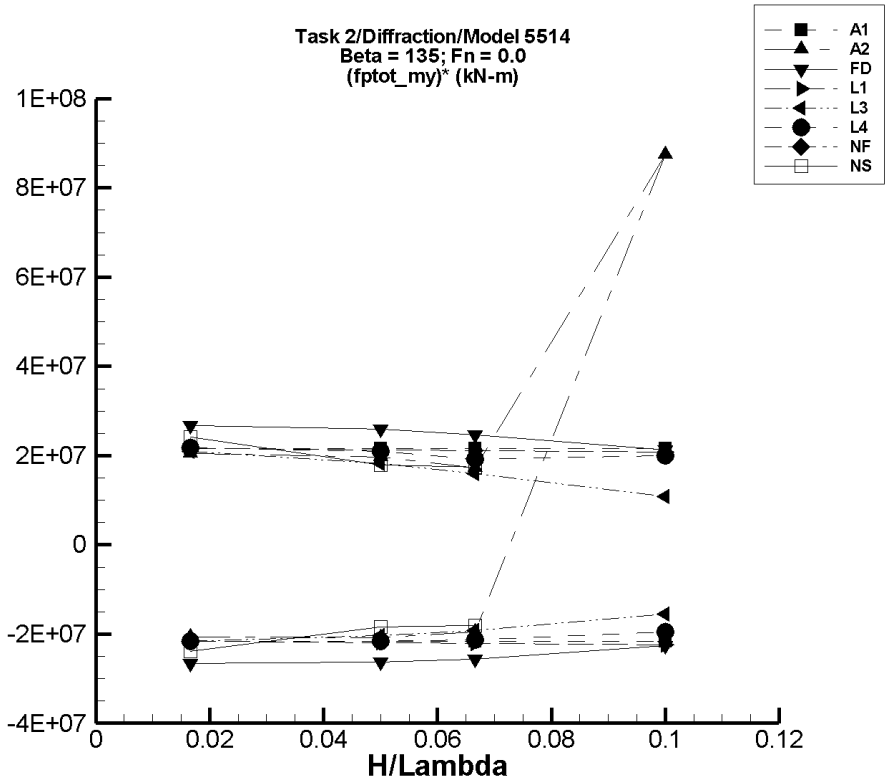

Figure R–50. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–393. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	9.38	-3.65E+05	3.64E+05	-3.61E+05	3.60E+05	-2.17E+07	2.16E+07
1/20	28.1	-1.09E+06	1.09E+06	-1.08E+06	1.08E+06	-2.16E+07	2.16E+07
1/15	37.2	-1.45E+06	1.45E+06	-1.44E+06	1.43E+06	-2.16E+07	2.15E+07
1/10	56.1	-2.18E+06	2.18E+06	-2.16E+06	2.16E+06	-2.16E+07	2.16E+07

Table R–394. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	5.55E+03	-3.42E+05	3.52E+05	-3.38E+05	3.48E+05	-2.06E+07	2.05E+07
1/20	3.50E+04	-1.18E+06	1.03E+06	-1.00E+06	1.02E+06	-2.08E+07	1.97E+07
1/15	3.00E+04	-1.30E+06	1.19E+06	-1.27E+06	1.18E+06	-1.95E+07	1.72E+07
1/10	-1.05E+07	-1.78E+06	-1.78E+06	-1.78E+06	-1.78E+06	8.74E+07	8.75E+07

Table R–395. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.93E+04	-4.28E+05	4.65E+05	-4.23E+05	4.66E+05	-2.65E+07	2.68E+07
1/20	6.65E+04	-1.26E+06	1.36E+06	-1.24E+06	1.36E+06	-2.62E+07	2.59E+07
1/15	8.95E+04	-1.65E+06	1.72E+06	-1.62E+06	1.73E+06	-2.57E+07	2.46E+07
1/10	3.17E+03	-2.28E+06	2.14E+06	-2.26E+06	2.13E+06	-2.26E+07	2.13E+07

Table R–396. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.16E+03	-3.64E+05	3.56E+05	-3.63E+05	3.58E+05	-2.17E+07	2.15E+07
1/20	-9.44E+03	-1.11E+06	1.05E+06	-1.11E+06	1.05E+06	-2.20E+07	2.12E+07
1/15	-1.66E+04	-1.50E+06	1.39E+06	-1.49E+06	1.39E+06	-2.21E+07	2.10E+07
1/10	-3.68E+04	-2.29E+06	2.05E+06	-2.28E+06	2.04E+06	-2.24E+07	2.08E+07

Table R–397. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-616.	-3.62E+05	3.47E+05	-3.60E+05	3.48E+05	-2.16E+07	2.09E+07
1/20	2.84E+04	-9.91E+05	9.39E+05	-9.85E+05	9.38E+05	-2.03E+07	1.82E+07
1/15	3.99E+04	-1.24E+06	1.11E+06	-1.24E+06	1.10E+06	-1.91E+07	1.60E+07
1/10	-4.09E+04	-1.59E+06	1.05E+06	-1.59E+06	1.04E+06	-1.55E+07	1.08E+07

Table R–398. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-6.63E+03	-3.69E+05	3.58E+05	-3.66E+05	3.56E+05	-2.16E+07	2.18E+07
1/20	-3.98E+04	-1.14E+06	1.01E+06	-1.12E+06	1.01E+06	-2.17E+07	2.10E+07
1/15	-7.55E+04	-1.51E+06	1.20E+06	-1.49E+06	1.21E+06	-2.13E+07	1.92E+07
1/10	-2.66E+05	-2.49E+06	2.26E+06	-2.22E+06	1.74E+06	-1.96E+07	2.01E+07

Table R–399. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–400. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-5.71E+03	-4.09E+05	4.01E+05	-4.05E+05	3.96E+05	-2.39E+07	2.41E+07
1/20	-2.16E+05	-1.14E+06	6.92E+05	-1.13E+06	6.82E+05	-1.84E+07	1.80E+07
1/15	-2.23E+05	-1.44E+06	9.47E+05	-1.43E+06	9.38E+05	-1.80E+07	1.74E+07
1/10	—	—	—	—	—	—	—

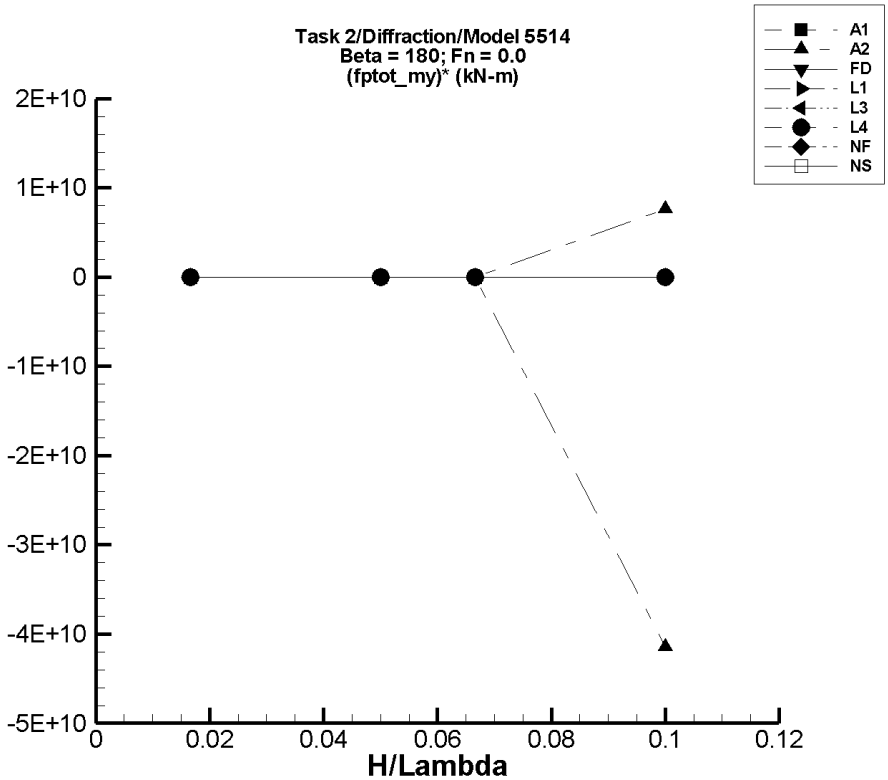

Figure R–51. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–401. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	80.4	-3.15E+05	3.14E+05	-3.11E+05	3.11E+05	-1.87E+07	1.86E+07
1/20	241.	-9.42E+05	9.40E+05	-9.32E+05	9.29E+05	-1.86E+07	1.86E+07
1/15	320.	-1.25E+06	1.25E+06	-1.24E+06	1.24E+06	-1.86E+07	1.86E+07
1/10	481.	-1.88E+06	1.88E+06	-1.86E+06	1.86E+06	-1.86E+07	1.86E+07

Table R–402. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.80E+03	-2.99E+05	3.00E+05	-2.96E+05	2.97E+05	-1.81E+07	1.75E+07
1/20	3.38E+04	-9.72E+05	8.46E+05	-9.51E+05	8.39E+05	-1.97E+07	1.61E+07
1/15	2.61E+04	-1.28E+06	1.01E+06	-1.26E+06	1.00E+06	-1.93E+07	1.47E+07
1/10	-3.73E+08	-3.39E+10	2.27E+06	-4.52E+09	3.87E+08	-4.15E+10	7.59E+09

Table R–403. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.92E+04	-3.93E+05	4.21E+05	-3.88E+05	4.16E+05	-2.44E+07	2.38E+07
1/20	6.46E+04	-1.24E+06	1.22E+06	-1.22E+06	1.21E+06	-2.58E+07	2.28E+07
1/15	8.90E+04	-1.68E+06	1.57E+06	-1.66E+06	1.56E+06	-2.62E+07	2.20E+07
1/10	-553.	-2.45E+06	1.97E+06	-2.41E+06	1.99E+06	-2.41E+07	1.99E+07

Table R–404. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-153.	-3.13E+05	3.11E+05	-3.12E+05	3.10E+05	-1.87E+07	1.86E+07
1/20	-1.64E+03	-9.43E+05	9.28E+05	-9.40E+05	9.24E+05	-1.88E+07	1.85E+07
1/15	-2.97E+03	-1.26E+06	1.23E+06	-1.26E+06	1.23E+06	-1.88E+07	1.85E+07
1/10	-6.81E+03	-1.90E+06	1.84E+06	-1.89E+06	1.84E+06	-1.89E+07	1.84E+07

Table R–405. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	254.	-3.12E+05	3.05E+05	-3.11E+05	3.04E+05	-1.87E+07	1.82E+07
1/20	3.41E+04	-9.06E+05	8.51E+05	-9.01E+05	8.48E+05	-1.87E+07	1.63E+07
1/15	5.15E+04	-1.16E+06	1.02E+06	-1.15E+06	1.02E+06	-1.80E+07	1.45E+07
1/10	-1.53E+04	-1.49E+06	1.06E+06	-1.48E+06	1.06E+06	-1.47E+07	1.08E+07

Table R–406. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.02E+03	-3.18E+05	3.11E+05	-3.16E+05	3.09E+05	-1.85E+07	1.90E+07
1/20	-3.99E+04	-9.87E+05	9.18E+05	-9.63E+05	8.81E+05	-1.85E+07	1.84E+07
1/15	-6.95E+04	-1.30E+06	1.14E+06	-1.28E+06	1.09E+06	-1.82E+07	1.74E+07
1/10	-2.15E+05	-2.53E+06	1.63E+06	-1.84E+06	1.40E+06	-1.63E+07	1.61E+07

Table R–407. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–408. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.61E+03	-3.90E+05	3.77E+05	-3.86E+05	3.73E+05	-2.28E+07	2.28E+07
1/20	-2.28E+05	-1.19E+06	7.45E+05	-1.18E+06	7.35E+05	-1.90E+07	1.93E+07
1/15	-2.45E+05	-1.49E+06	1.03E+06	-1.49E+06	1.02E+06	-1.86E+07	1.90E+07
1/10	—	—	—	—	—	—	—

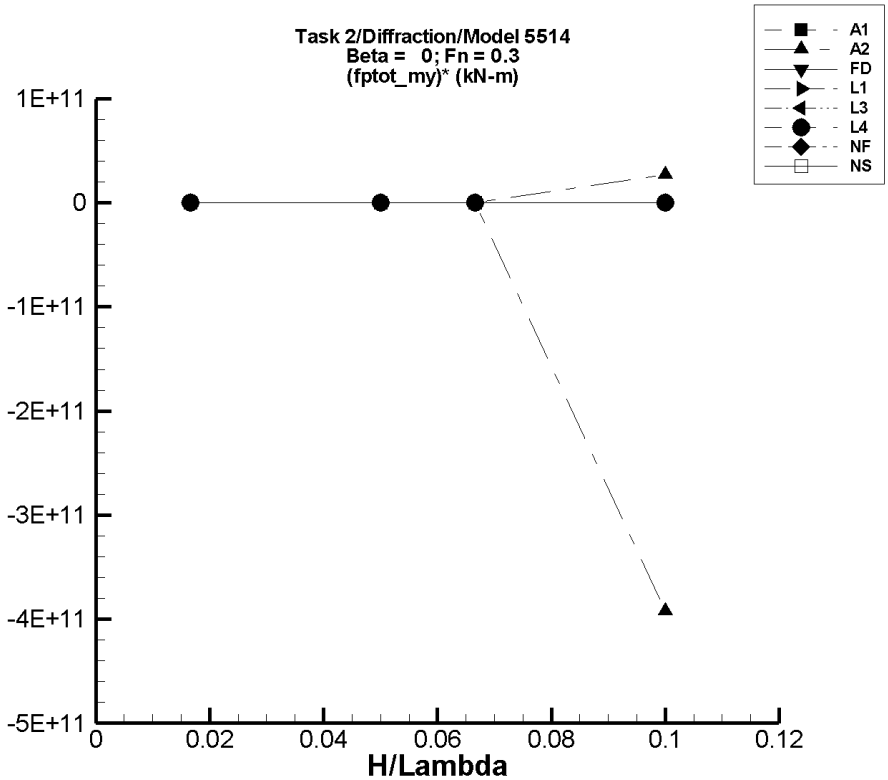

Figure R–52. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–409. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	224.	-2.18E+05	2.22E+05	-2.17E+05	2.18E+05	-1.31E+07	1.31E+07
1/20	669.	-6.51E+05	6.64E+05	-6.51E+05	6.53E+05	-1.30E+07	1.30E+07
1/15	891.	-8.67E+05	8.83E+05	-8.66E+05	8.70E+05	-1.30E+07	1.30E+07
1/10	1.34E+03	-1.30E+06	1.33E+06	-1.30E+06	1.31E+06	-1.30E+07	1.30E+07

Table R–410. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	5.92E+03	-2.09E+05	2.28E+05	-2.09E+05	2.24E+05	-1.29E+07	1.31E+07
1/20	3.27E+04	-8.80E+05	6.75E+05	-6.81E+05	6.59E+05	-1.43E+07	1.25E+07
1/15	2.44E+04	-8.73E+05	7.19E+05	-8.52E+05	6.83E+05	-1.31E+07	9.87E+06
1/10	-9.77E+08	-1.59E+11	2.03E+06	-4.02E+10	1.74E+09	-3.92E+11	2.72E+10

Table R–411. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.99E+04	-2.87E+05	3.31E+05	-2.87E+05	3.30E+05	-1.84E+07	1.86E+07
1/20	6.66E+04	-8.42E+05	9.77E+05	-8.41E+05	9.76E+05	-1.81E+07	1.82E+07
1/15	9.09E+04	-1.08E+06	1.25E+06	-1.08E+06	1.25E+06	-1.75E+07	1.74E+07
1/10	-604.	-1.40E+06	1.28E+06	-1.40E+06	1.28E+06	-1.40E+07	1.28E+07

Table R–412. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	4.46E+04	-2.17E+05	3.06E+05	-2.17E+05	3.06E+05	-1.57E+07	1.57E+07
1/20	5.09E+04	-7.32E+05	8.36E+05	-7.32E+05	8.35E+05	-1.57E+07	1.57E+07
1/15	5.60E+04	-9.87E+05	1.10E+06	-9.86E+05	1.10E+06	-1.56E+07	1.57E+07
1/10	7.04E+04	-1.49E+06	1.64E+06	-1.49E+06	1.64E+06	-1.56E+07	1.57E+07

Table R–413. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	4.49E+04	-2.11E+05	3.03E+05	-2.11E+05	3.02E+05	-1.54E+07	1.55E+07
1/20	8.65E+04	-5.95E+05	7.75E+05	-5.95E+05	7.75E+05	-1.36E+07	1.38E+07
1/15	1.10E+05	-6.99E+05	9.24E+05	-6.98E+05	9.23E+05	-1.21E+07	1.22E+07
1/10	5.89E+04	-6.90E+05	7.62E+05	-6.90E+05	7.61E+05	-7.49E+06	7.02E+06

Table R–414. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	3.63E+04	-2.74E+05	4.93E+05	-2.65E+05	4.81E+05	-1.81E+07	2.67E+07
1/20	1.51E+04	-1.07E+06	9.18E+05	-1.04E+06	9.10E+05	-2.12E+07	1.79E+07
1/15	1.09E+04	-1.39E+06	1.10E+06	-1.35E+06	1.09E+06	-2.04E+07	1.62E+07
1/10	-3.68E+04	-2.47E+06	1.30E+06	-2.02E+06	1.27E+06	-1.98E+07	1.30E+07

Table R–415. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–416. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.12E+04	-2.30E+05	2.72E+05	-2.23E+05	2.69E+05	-1.47E+07	1.49E+07
1/20	-1.56E+05	-7.80E+05	5.40E+05	-7.74E+05	5.32E+05	-1.23E+07	1.38E+07
1/15	-1.73E+05	-1.00E+06	7.58E+05	-9.98E+05	7.53E+05	-1.24E+07	1.39E+07
1/10	—	—	—	—	—	—	—

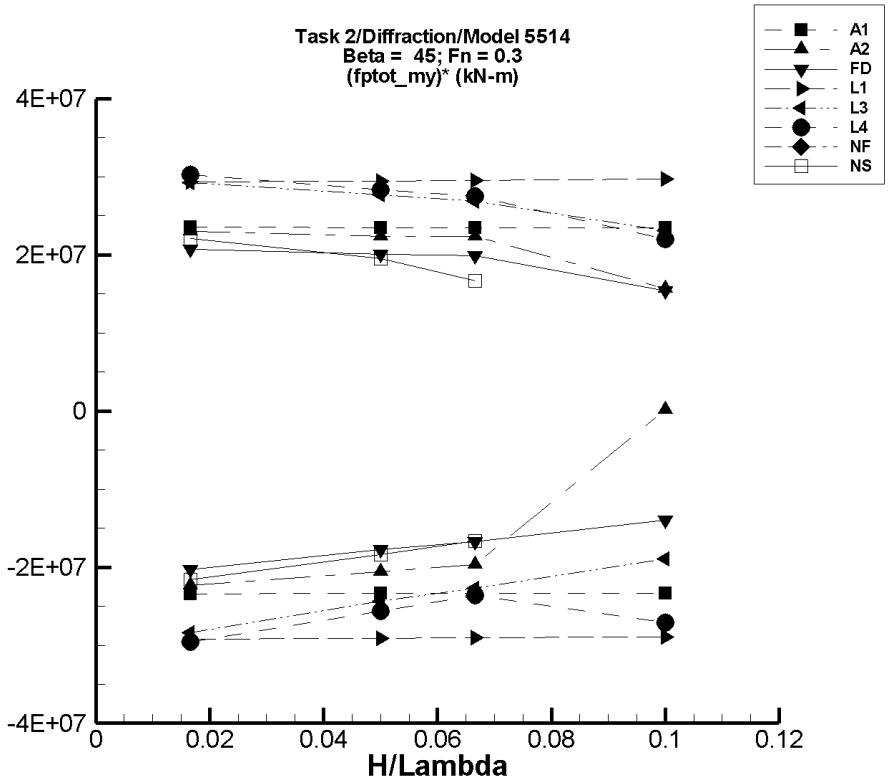

Figure R–53. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–417. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.00E+03	-3.90E+05	3.94E+05	-3.89E+05	3.93E+05	-2.34E+07	2.35E+07
1/20	3.00E+03	-1.17E+06	1.18E+06	-1.16E+06	1.18E+06	-2.34E+07	2.35E+07
1/15	3.99E+03	-1.55E+06	1.57E+06	-1.55E+06	1.57E+06	-2.33E+07	2.34E+07
1/10	5.99E+03	-2.33E+06	2.36E+06	-2.33E+06	2.35E+06	-2.34E+07	2.35E+07

Table R–418. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	6.51E+03	-3.67E+05	3.90E+05	-3.66E+05	3.89E+05	-2.24E+07	2.30E+07
1/20	3.82E+04	-9.94E+05	1.16E+06	-9.92E+05	1.15E+06	-2.06E+07	2.23E+07
1/15	1.78E+04	-1.29E+06	1.54E+06	-1.29E+06	1.51E+06	-1.96E+07	2.23E+07
1/10	-1.72E+06	-1.87E+06	-1.42E+05	-1.70E+06	-1.55E+05	1.86E+05	1.57E+07

Table R–419. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.89E+04	-3.20E+05	3.64E+05	-3.19E+05	3.63E+05	-2.03E+07	2.07E+07
1/20	6.50E+04	-8.23E+05	1.07E+06	-8.22E+05	1.07E+06	-1.77E+07	2.01E+07
1/15	8.64E+04	-1.03E+06	1.42E+06	-1.03E+06	1.41E+06	-1.68E+07	1.99E+07
1/10	-707.	-1.41E+06	1.54E+06	-1.40E+06	1.54E+06	-1.40E+07	1.54E+07

Table R–420. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.14E+04	-4.46E+05	5.30E+05	-4.46E+05	5.30E+05	-2.92E+07	2.93E+07
1/20	2.38E+04	-1.43E+06	1.50E+06	-1.43E+06	1.50E+06	-2.91E+07	2.95E+07
1/15	8.54E+03	-1.93E+06	1.98E+06	-1.93E+06	1.98E+06	-2.90E+07	2.95E+07
1/10	-3.51E+04	-2.93E+06	2.93E+06	-2.93E+06	2.93E+06	-2.89E+07	2.97E+07

Table R–421. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.19E+04	-4.32E+05	5.30E+05	-4.32E+05	5.29E+05	-2.84E+07	2.92E+07
1/20	6.12E+04	-1.16E+06	1.45E+06	-1.16E+06	1.45E+06	-2.43E+07	2.77E+07
1/15	6.38E+04	-1.45E+06	1.86E+06	-1.45E+06	1.85E+06	-2.27E+07	2.69E+07
1/10	-4.17E+04	-1.94E+06	2.27E+06	-1.94E+06	2.27E+06	-1.90E+07	2.31E+07

Table R–422. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	3.52E+04	-4.62E+05	5.41E+05	-4.58E+05	5.39E+05	-2.96E+07	3.02E+07
1/20	5.87E+04	-1.23E+06	1.48E+06	-1.22E+06	1.48E+06	-2.56E+07	2.84E+07
1/15	8.85E+04	-1.50E+06	1.92E+06	-1.48E+06	1.92E+06	-2.36E+07	2.75E+07
1/10	7.71E+04	-4.80E+06	2.28E+06	-2.63E+06	2.28E+06	-2.71E+07	2.20E+07

Table R–423. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–424. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	2.01E+04	-3.44E+05	3.92E+05	-3.40E+05	3.89E+05	-2.16E+07	2.21E+07
1/20	-5.87E+04	-9.83E+05	9.28E+05	-9.77E+05	9.17E+05	-1.84E+07	1.95E+07
1/15	-1.66E+05	-1.28E+06	9.53E+05	-1.28E+06	9.48E+05	-1.67E+07	1.67E+07
1/10	—	—	—	—	—	—	—

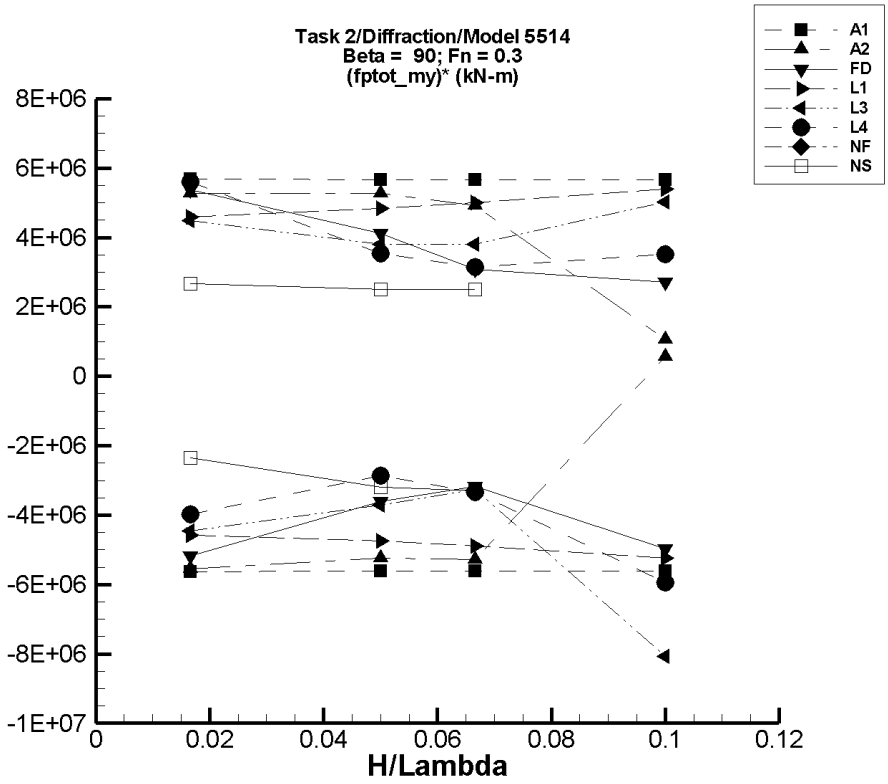

Figure R–54. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–425. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	432.	-9.49E+04	9.63E+04	-9.35E+04	9.51E+04	-5.64E+06	5.68E+06
1/20	1.29E+03	-2.84E+05	2.88E+05	-2.80E+05	2.84E+05	-5.62E+06	5.66E+06
1/15	1.72E+03	-3.78E+05	3.84E+05	-3.72E+05	3.79E+05	-5.61E+06	5.65E+06
1/10	2.58E+03	-5.68E+05	5.76E+05	-5.59E+05	5.69E+05	-5.62E+06	5.66E+06

Table R–426. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	6.02E+03	-8.81E+04	9.53E+04	-8.65E+04	9.39E+04	-5.55E+06	5.27E+06
1/20	2.72E+04	-3.18E+05	6.09E+05	-2.34E+05	2.90E+05	-5.23E+06	5.26E+06
1/15	2.74E+04	-6.41E+05	3.62E+05	-3.24E+05	3.55E+05	-5.28E+06	4.92E+06
1/10	-1.47E+06	-1.41E+06	-1.37E+06	-1.41E+06	-1.37E+06	5.70E+05	1.06E+06

Table R–427. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.93E+04	-6.80E+04	1.10E+05	-6.72E+04	1.09E+05	-5.19E+06	5.37E+06
1/20	6.65E+04	-1.19E+05	2.74E+05	-1.14E+05	2.72E+05	-3.60E+06	4.11E+06
1/15	9.12E+04	-1.30E+05	3.04E+05	-1.20E+05	2.97E+05	-3.17E+06	3.08E+06
1/10	1.09E+04	-5.13E+05	2.89E+05	-4.87E+05	2.81E+05	-4.98E+06	2.70E+06

Table R–428. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.08E+04	-3.57E+04	1.18E+05	-3.54E+04	1.17E+05	-4.57E+06	4.59E+06
1/20	1.91E+04	-2.19E+05	2.62E+05	-2.18E+05	2.61E+05	-4.74E+06	4.83E+06
1/15	60.2	-3.28E+05	3.35E+05	-3.26E+05	3.34E+05	-4.89E+06	5.00E+06
1/10	-5.42E+04	-5.83E+05	4.88E+05	-5.79E+05	4.85E+05	-5.25E+06	5.39E+06

Table R–429. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.14E+04	-3.34E+04	1.16E+05	-3.30E+04	1.16E+05	-4.46E+06	4.49E+06
1/20	5.76E+04	-1.31E+05	2.49E+05	-1.28E+05	2.47E+05	-3.72E+06	3.80E+06
1/15	5.89E+04	-1.62E+05	3.16E+05	-1.59E+05	3.13E+05	-3.26E+06	3.81E+06
1/10	-5.20E+04	-8.69E+05	4.56E+05	-8.60E+05	4.50E+05	-8.08E+06	5.02E+06

Table R–430. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.34E+04	-3.68E+04	1.29E+05	-3.31E+04	1.27E+05	-3.99E+06	5.61E+06
1/20	-5.51E+03	-1.58E+05	1.73E+05	-1.49E+05	1.72E+05	-2.86E+06	3.54E+06
1/15	-1.55E+04	-2.49E+05	1.97E+05	-2.38E+05	1.94E+05	-3.33E+06	3.14E+06
1/10	-8.50E+04	-2.64E+06	7.95E+05	-6.80E+05	2.66E+05	-5.95E+06	3.51E+06

Table R–431. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–432. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.54E+03	-4.24E+04	4.28E+04	-4.17E+04	4.20E+04	-2.35E+06	2.67E+06
1/20	-2.13E+05	-3.81E+05	-8.27E+04	-3.73E+05	-8.75E+04	-3.20E+06	2.51E+06
1/15	-2.26E+05	-4.66E+05	-5.40E+04	-4.45E+05	-5.84E+04	-3.30E+06	2.51E+06
1/10	—	—	—	—	—	—	—

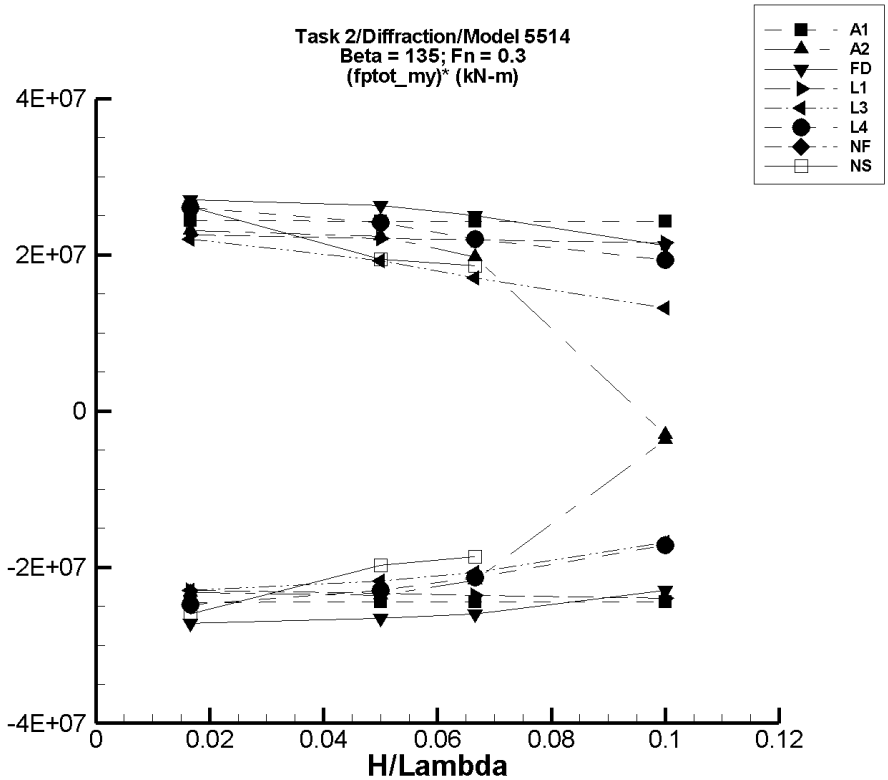

Figure R–55. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–433. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-399.	-4.21E+05	4.16E+05	-4.09E+05	4.06E+05	-2.45E+07	2.44E+07
1/20	-1.19E+03	-1.26E+06	1.25E+06	-1.22E+06	1.21E+06	-2.45E+07	2.43E+07
1/15	-1.59E+03	-1.68E+06	1.66E+06	-1.63E+06	1.62E+06	-2.44E+07	2.43E+07
1/10	-2.39E+03	-2.52E+06	2.49E+06	-2.45E+06	2.43E+06	-2.45E+07	2.43E+07

Table R–434. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	**Unfiltered** M_y^{ptot}		**Filtered** M_y^{ptot}		**Filtered** $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	5.33E+03	-3.93E+05	4.01E+05	-3.83E+05	3.91E+05	-2.33E+07	2.31E+07
1/20	3.21E+04	-1.33E+06	1.18E+06	-1.15E+06	1.15E+06	-2.36E+07	2.24E+07
1/15	2.39E+04	-1.47E+06	1.37E+06	-1.42E+06	1.34E+06	-2.17E+07	1.97E+07
1/10	-1.66E+06	-2.03E+06	-1.97E+06	-2.03E+06	-1.97E+06	-3.68E+06	-3.07E+06

Table R–435. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.96E+04	-4.45E+05	4.83E+05	-4.33E+05	4.71E+05	-2.72E+07	2.71E+07
1/20	6.75E+04	-1.30E+06	1.42E+06	-1.26E+06	1.38E+06	-2.65E+07	2.63E+07
1/15	9.12E+04	-1.68E+06	1.79E+06	-1.64E+06	1.76E+06	-2.60E+07	2.50E+07
1/10	7.23E+03	-2.34E+06	2.20E+06	-2.29E+06	2.13E+06	-2.30E+07	2.12E+07

Table R–436. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.29E+04	-3.44E+05	4.22E+05	-3.40E+05	4.18E+05	-2.30E+07	2.25E+07
1/20	3.32E+04	-1.15E+06	1.15E+06	-1.14E+06	1.14E+06	-2.34E+07	2.21E+07
1/15	2.45E+04	-1.56E+06	1.50E+06	-1.55E+06	1.49E+06	-2.36E+07	2.19E+07
1/10	-882.	-2.43E+06	2.17E+06	-2.40E+06	2.15E+06	-2.40E+07	2.15E+07

Table R–437. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.34E+04	-3.43E+05	4.13E+05	-3.40E+05	4.10E+05	-2.30E+07	2.20E+07
1/20	7.04E+04	-1.04E+06	1.04E+06	-1.02E+06	1.03E+06	-2.18E+07	1.93E+07
1/15	7.97E+04	-1.31E+06	1.22E+06	-1.30E+06	1.22E+06	-2.06E+07	1.71E+07
1/10	-9.30E+03	-1.71E+06	1.32E+06	-1.69E+06	1.31E+06	-1.68E+07	1.31E+07

Table R–438. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	2.45E+04	-3.97E+05	4.64E+05	-3.89E+05	4.58E+05	-2.48E+07	2.60E+07
1/20	-5.30E+04	-1.23E+06	1.17E+06	-1.20E+06	1.15E+06	-2.30E+07	2.41E+07
1/15	-9.40E+04	-1.54E+06	1.39E+06	-1.52E+06	1.37E+06	-2.14E+07	2.20E+07
1/10	-2.14E+05	-2.69E+06	2.31E+06	-1.93E+06	1.72E+06	-1.72E+07	1.94E+07

Table R–439. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–440. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-185.	-4.39E+05	4.39E+05	-4.34E+05	4.35E+05	-2.60E+07	2.61E+07
1/20	-2.23E+05	-1.22E+06	7.58E+05	-1.21E+06	7.50E+05	-1.98E+07	1.95E+07
1/15	-2.31E+05	-1.49E+06	1.02E+06	-1.48E+06	1.01E+06	-1.87E+07	1.86E+07
1/10	—	—	—	—	—	—	—

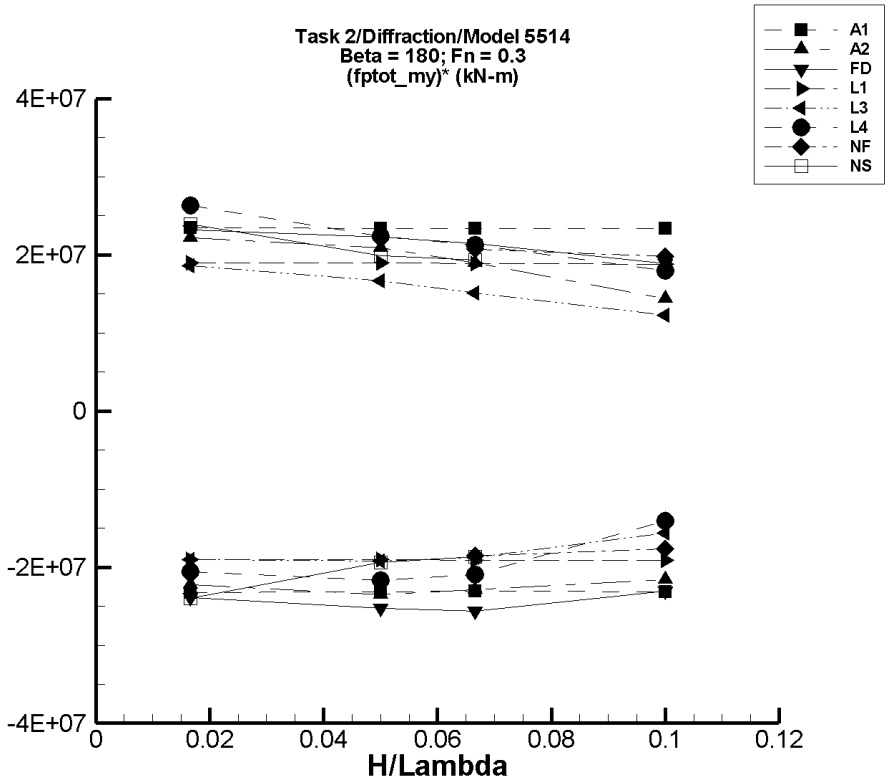

Figure R–56. Minimum and Maximum of $(M_y^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–441. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.19E+03	-3.98E+05	4.06E+05	-3.86E+05	3.92E+05	-2.32E+07	2.35E+07
1/20	3.55E+03	-1.19E+06	1.21E+06	-1.15E+06	1.17E+06	-2.31E+07	2.34E+07
1/15	4.73E+03	-1.59E+06	1.62E+06	-1.54E+06	1.56E+06	-2.31E+07	2.34E+07
1/10	7.11E+03	-2.38E+06	2.43E+06	-2.31E+06	2.35E+06	-2.31E+07	2.34E+07

Table R–442. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.57E+03	-3.77E+05	3.90E+05	-3.64E+05	3.77E+05	-2.22E+07	2.22E+07
1/20	3.93E+04	-1.19E+06	1.12E+06	-1.14E+06	1.09E+06	-2.35E+07	2.09E+07
1/15	3.68E+04	-1.56E+06	1.33E+06	-1.49E+06	1.30E+06	-2.29E+07	1.89E+07
1/10	1.50E+05	-2.30E+06	2.50E+06	-2.01E+06	1.59E+06	-2.16E+07	1.44E+07

Table R–443. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{ptot}} \rangle$	Unfiltered M_y^{ptot}		Filtered M_y^{ptot}		Filtered $\left(M_y^{\text{ptot}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.78E+04	-3.88E+05	4.17E+05	-3.81E+05	4.04E+05	-2.39E+07	2.32E+07
1/20	6.09E+04	-1.22E+06	1.21E+06	-1.20E+06	1.17E+06	-2.53E+07	2.23E+07
1/15	8.22E+04	-1.65E+06	1.55E+06	-1.63E+06	1.51E+06	-2.57E+07	2.15E+07
1/10	-1.04E+04	-2.39E+06	1.92E+06	-2.32E+06	1.88E+06	-2.31E+07	1.89E+07

Table R–444. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	4.32E+04	-2.77E+05	3.64E+05	-2.73E+05	3.60E+05	-1.90E+07	1.90E+07
1/20	4.30E+04	-9.22E+05	1.00E+06	-9.10E+05	9.89E+05	-1.91E+07	1.89E+07
1/15	4.33E+04	-1.25E+06	1.32E+06	-1.23E+06	1.30E+06	-1.91E+07	1.89E+07
1/10	4.46E+04	-1.90E+06	1.95E+06	-1.87E+06	1.93E+06	-1.92E+07	1.88E+07

Table R–445. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	4.35E+04	-2.77E+05	3.58E+05	-2.73E+05	3.54E+05	-1.90E+07	1.86E+07
1/20	7.78E+04	-8.98E+05	9.22E+05	-8.84E+05	9.11E+05	-1.92E+07	1.67E+07
1/15	9.77E+04	-1.17E+06	1.12E+06	-1.15E+06	1.10E+06	-1.87E+07	1.51E+07
1/10	3.61E+04	-1.56E+06	1.28E+06	-1.52E+06	1.26E+06	-1.56E+07	1.23E+07

Table R–446. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_y^{ptot} Min. (kN-m)	Unfiltered M_y^{ptot} Max. (kN-m)	Filtered M_y^{ptot} Min. (kN-m)	Filtered M_y^{ptot} Max. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	1.51E+04	-3.33E+05	4.64E+05	-3.29E+05	4.54E+05	-2.06E+07	2.64E+07
1/20	-6.47E+04	-1.18E+06	1.10E+06	-1.15E+06	1.05E+06	-2.17E+07	2.24E+07
1/15	-1.11E+05	-1.54E+06	1.42E+06	-1.51E+06	1.31E+06	-2.10E+07	2.12E+07
1/10	-6.38E+04	-1.85E+06	2.24E+06	-1.47E+06	1.73E+06	-1.40E+07	1.79E+07

Table R–447. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	-6.23E+04	-1.08E+06	1.05E+06	-1.03E+06	9.90E+05	-1.94E+07	2.11E+07
1/15	-8.23E+04	-1.38E+06	1.39E+06	-1.32E+06	1.30E+06	-1.86E+07	2.07E+07
1/10	-1.40E+05	-1.92E+06	1.86E+06	-1.90E+06	1.84E+06	-1.76E+07	1.98E+07

Table R–448. Minimum and Maximum of M_y^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.88E+03	-4.06E+05	3.95E+05	-4.06E+05	3.91E+05	-2.39E+07	2.39E+07
1/20	-2.42E+05	-1.22E+06	7.66E+05	-1.21E+06	7.52E+05	-1.94E+07	1.99E+07
1/15	-2.39E+05	-1.49E+06	1.06E+06	-1.48E+06	1.05E+06	-1.86E+07	1.93E+07
1/10	—	—	—	—	—	—	—

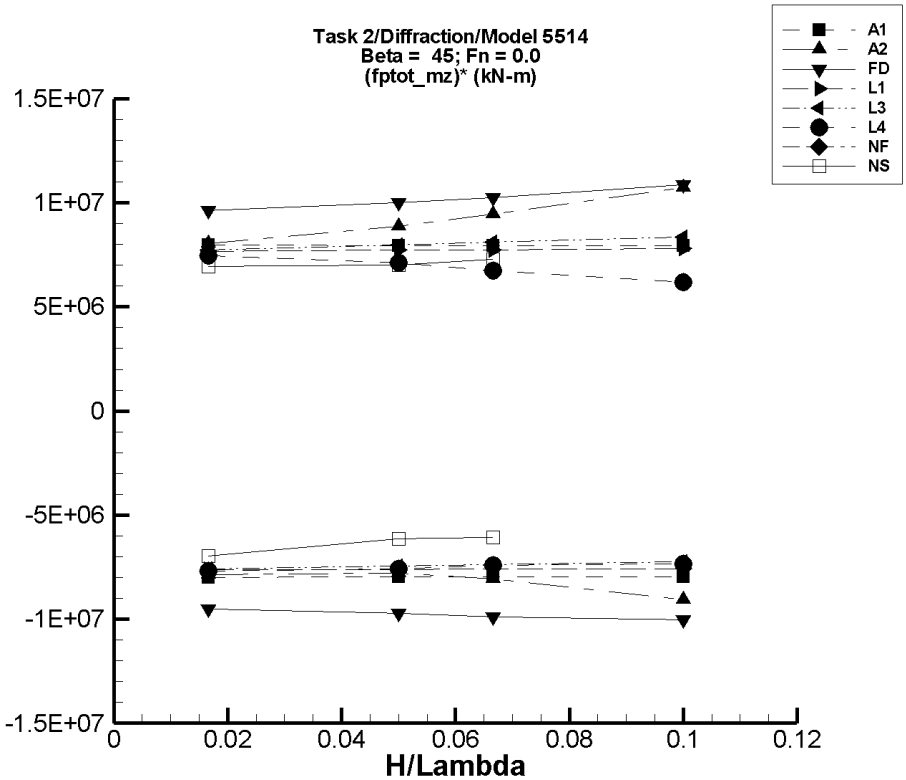

Figure R–57. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–449. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-81.0	-1.35E+05	1.34E+05	-1.33E+05	1.33E+05	-7.99E+06	7.98E+06
1/20	-242.	-4.03E+05	4.02E+05	-3.98E+05	3.97E+05	-7.96E+06	7.95E+06
1/15	-323.	-5.36E+05	5.35E+05	-5.31E+05	5.29E+05	-7.95E+06	7.94E+06
1/10	-485.	-8.05E+05	8.04E+05	-7.97E+05	7.95E+05	-7.96E+06	7.95E+06

Table R–450. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-121.	-1.32E+05	1.35E+05	-1.31E+05	1.34E+05	-7.86E+06	8.05E+06
1/20	-3.47E+03	-5.97E+05	4.44E+05	-3.93E+05	4.40E+05	-7.80E+06	8.88E+06
1/15	-1.96E+03	-7.81E+05	6.35E+05	-5.39E+05	6.28E+05	-8.05E+06	9.45E+06
1/10	-3.65E+04	-1.80E+06	1.05E+06	-9.42E+05	1.04E+06	-9.06E+06	1.07E+07

Table R–451. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	10.3	-1.60E+05	1.62E+05	-1.59E+05	1.60E+05	-9.52E+06	9.62E+06
1/20	296.	-4.92E+05	5.06E+05	-4.86E+05	5.00E+05	-9.73E+06	1.00E+07
1/15	636.	-6.66E+05	6.93E+05	-6.58E+05	6.85E+05	-9.88E+06	1.03E+07
1/10	1.29E+03	-1.02E+06	1.10E+06	-1.00E+06	1.09E+06	-1.00E+07	1.09E+07

Table R–452. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-252.	-1.28E+05	1.28E+05	-1.27E+05	1.28E+05	-7.63E+06	7.67E+06
1/20	-2.06E+03	-3.84E+05	3.85E+05	-3.82E+05	3.84E+05	-7.60E+06	7.72E+06
1/15	-3.62E+03	-5.12E+05	5.14E+05	-5.10E+05	5.12E+05	-7.59E+06	7.74E+06
1/10	-8.04E+03	-7.68E+05	7.75E+05	-7.66E+05	7.71E+05	-7.57E+06	7.79E+06

Table R–453. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-253.	-1.27E+05	1.29E+05	-1.27E+05	1.29E+05	-7.58E+06	7.75E+06
1/20	-2.01E+03	-3.75E+05	3.99E+05	-3.74E+05	3.97E+05	-7.44E+06	7.98E+06
1/15	-3.48E+03	-4.97E+05	5.40E+05	-4.95E+05	5.37E+05	-7.38E+06	8.11E+06
1/10	-7.89E+03	-7.34E+05	8.30E+05	-7.31E+05	8.26E+05	-7.23E+06	8.34E+06

Table R–454. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.50E+03	-1.33E+05	1.25E+05	-1.30E+05	1.23E+05	-7.68E+06	7.47E+06
1/20	-1.15E+04	-4.06E+05	3.58E+05	-3.91E+05	3.44E+05	-7.59E+06	7.10E+06
1/15	-1.75E+04	-5.24E+05	4.45E+05	-5.12E+05	4.31E+05	-7.42E+06	6.73E+06
1/10	-1.22E+04	-7.76E+05	8.24E+05	-7.46E+05	6.06E+05	-7.34E+06	6.18E+06

Table R–455. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–456. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-741.	-1.18E+05	1.16E+05	-1.17E+05	1.15E+05	-6.95E+06	6.95E+06
1/20	-62.9	-3.09E+05	3.56E+05	-3.07E+05	3.51E+05	-6.14E+06	7.01E+06
1/15	595.	-4.09E+05	4.90E+05	-4.05E+05	4.87E+05	-6.08E+06	7.30E+06
1/10	—	—	—	—	—	—	—

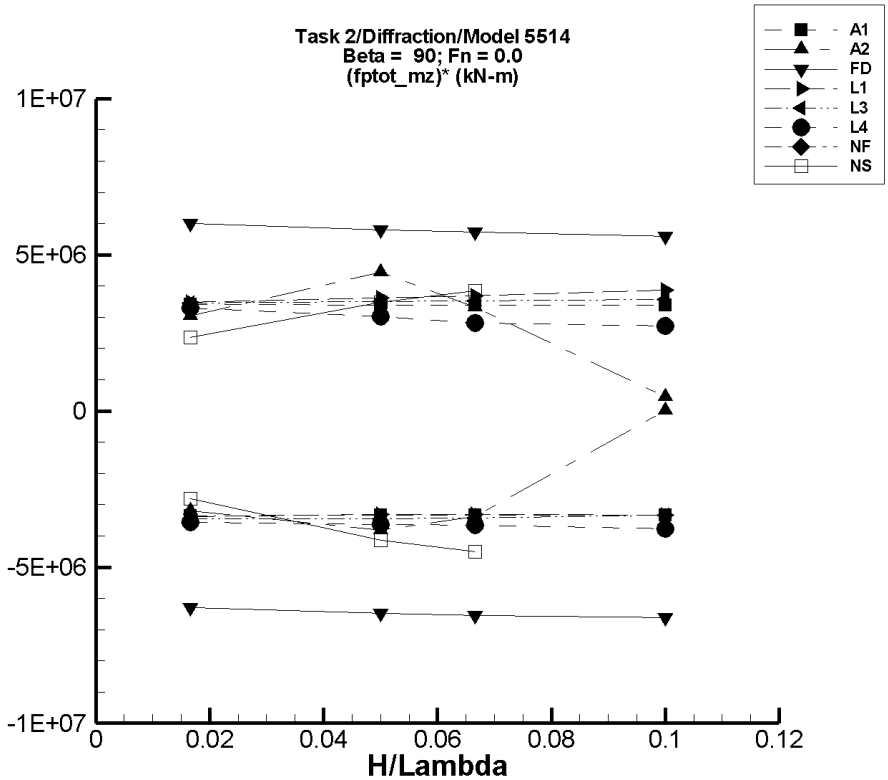

Figure R–58. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–457. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	4.37	-5.65E+04	5.70E+04	-5.58E+04	5.67E+04	-3.35E+06	3.40E+06
1/20	13.1	-1.69E+05	1.70E+05	-1.67E+05	1.70E+05	-3.34E+06	3.39E+06
1/15	17.4	-2.25E+05	2.27E+05	-2.22E+05	2.26E+05	-3.34E+06	3.39E+06
1/10	26.1	-3.38E+05	3.41E+05	-3.34E+05	3.39E+05	-3.34E+06	3.39E+06

Table R–458. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-133.	-5.44E+04	5.08E+04	-5.35E+04	5.07E+04	-3.20E+06	3.05E+06
1/20	7.17E+03	-3.13E+05	7.38E+05	-1.84E+05	2.30E+05	-3.81E+06	4.45E+06
1/15	1.45E+03	-3.27E+05	2.84E+05	-2.24E+05	2.22E+05	-3.38E+06	3.31E+06
1/10	9.11E+04	9.27E+04	1.37E+05	9.27E+04	1.37E+05	1.66E+04	4.60E+05

Table R–459. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-1.12	-1.06E+05	1.01E+05	-1.05E+05	9.99E+04	-6.28E+06	5.99E+06
1/20	50.7	-3.29E+05	2.89E+05	-3.24E+05	2.90E+05	-6.49E+06	5.79E+06
1/15	94.3	-4.43E+05	3.79E+05	-4.36E+05	3.81E+05	-6.55E+06	5.72E+06
1/10	-665.	-6.74E+05	5.54E+05	-6.62E+05	5.58E+05	-6.61E+06	5.59E+06

Table R–460. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-892.	-5.74E+04	5.74E+04	-5.72E+04	5.72E+04	-3.38E+06	3.48E+06
1/20	-7.82E+03	-1.74E+05	1.74E+05	-1.74E+05	1.73E+05	-3.32E+06	3.62E+06
1/15	-1.38E+04	-2.35E+05	2.34E+05	-2.34E+05	2.32E+05	-3.31E+06	3.69E+06
1/10	-3.11E+04	-3.66E+05	3.57E+05	-3.64E+05	3.55E+05	-3.33E+06	3.86E+06

Table R–461. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-895.	-5.85E+04	5.68E+04	-5.82E+04	5.69E+04	-3.44E+06	3.47E+06
1/20	-7.91E+03	-1.81E+05	1.67E+05	-1.80E+05	1.67E+05	-3.45E+06	3.50E+06
1/15	-1.40E+04	-2.44E+05	2.21E+05	-2.43E+05	2.21E+05	-3.43E+06	3.52E+06
1/10	-3.20E+04	-3.68E+05	3.25E+05	-3.65E+05	3.24E+05	-3.33E+06	3.57E+06

Table R–462. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-73.3	-6.20E+04	5.68E+04	-5.94E+04	5.50E+04	-3.56E+06	3.31E+06
1/20	3.68E+03	-1.86E+05	1.66E+05	-1.78E+05	1.55E+05	-3.64E+06	3.03E+06
1/15	1.14E+04	-2.54E+05	2.12E+05	-2.32E+05	1.99E+05	-3.65E+06	2.82E+06
1/10	8.46E+04	-3.36E+05	6.30E+05	-2.93E+05	3.58E+05	-3.78E+06	2.73E+06

Table R–463. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–464. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-733.	-4.85E+04	3.91E+04	-4.77E+04	3.84E+04	-2.82E+06	2.35E+06
1/20	2.58E+03	-2.08E+05	1.80E+05	-2.04E+05	1.77E+05	-4.13E+06	3.48E+06
1/15	5.52E+03	-3.00E+05	2.73E+05	-2.94E+05	2.62E+05	-4.50E+06	3.85E+06
1/10	—	—	—	—	—	—	—

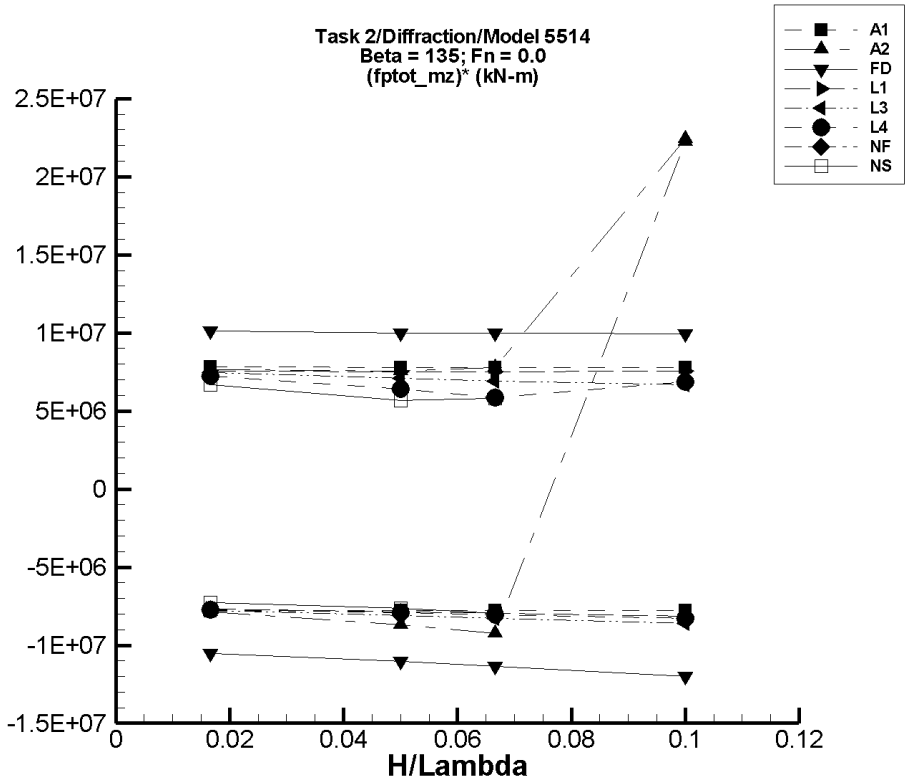

Figure R–59. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–465. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	62.5	-1.32E+05	1.32E+05	-1.30E+05	1.30E+05	-7.82E+06	7.82E+06
1/20	187.	-3.93E+05	3.95E+05	-3.90E+05	3.90E+05	-7.79E+06	7.80E+06
1/15	249.	-5.24E+05	5.25E+05	-5.19E+05	5.20E+05	-7.78E+06	7.79E+06
1/10	374.	-7.87E+05	7.89E+05	-7.79E+05	7.80E+05	-7.79E+06	7.80E+06

Table R–466. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-115.	-1.32E+05	1.29E+05	-1.31E+05	1.27E+05	-7.85E+06	7.65E+06
1/20	3.40E+03	-4.33E+05	5.98E+05	-4.31E+05	3.82E+05	-8.69E+06	7.57E+06
1/15	-400.	-6.22E+05	5.25E+05	-6.16E+05	5.19E+05	-9.23E+06	7.79E+06
1/10	-1.62E+06	6.04E+05	6.20E+05	6.04E+05	6.20E+05	2.23E+07	2.24E+07

Table R–467. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-7.03	-1.77E+05	1.70E+05	-1.75E+05	1.69E+05	-1.05E+07	1.01E+07
1/20	-149.	-5.59E+05	5.04E+05	-5.53E+05	5.00E+05	-1.10E+07	1.00E+07
1/15	-399.	-7.67E+05	6.70E+05	-7.58E+05	6.64E+05	-1.14E+07	9.97E+06
1/10	-892.	-1.22E+06	9.99E+05	-1.20E+06	9.92E+05	-1.20E+07	9.93E+06

Table R–468. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	206.	-1.28E+05	1.27E+05	-1.28E+05	1.26E+05	-7.68E+06	7.56E+06
1/20	1.82E+03	-3.92E+05	3.79E+05	-3.90E+05	3.77E+05	-7.85E+06	7.51E+06
1/15	3.24E+03	-5.29E+05	5.06E+05	-5.26E+05	5.04E+05	-7.94E+06	7.51E+06
1/10	7.27E+03	-8.13E+05	7.65E+05	-8.09E+05	7.62E+05	-8.16E+06	7.55E+06

Table R–469. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	206.	-1.30E+05	1.25E+05	-1.29E+05	1.24E+05	-7.78E+06	7.45E+06
1/20	1.76E+03	-4.05E+05	3.58E+05	-4.03E+05	3.56E+05	-8.10E+06	7.09E+06
1/15	3.04E+03	-5.52E+05	4.66E+05	-5.49E+05	4.64E+05	-8.28E+06	6.92E+06
1/10	6.92E+03	-8.60E+05	6.75E+05	-8.55E+05	6.73E+05	-8.62E+06	6.66E+06

Table R–470. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	412.	-1.30E+05	1.23E+05	-1.28E+05	1.21E+05	-7.72E+06	7.24E+06
1/20	7.18E+03	-4.04E+05	3.38E+05	-3.90E+05	3.27E+05	-7.93E+06	6.40E+06
1/15	1.52E+04	-5.46E+05	4.15E+05	-5.21E+05	4.06E+05	-8.04E+06	5.86E+06
1/10	4.85E+04	-1.05E+06	7.65E+05	-7.81E+05	7.37E+05	-8.29E+06	6.88E+06

Table R–471. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–472. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-353.	-1.23E+05	1.13E+05	-1.22E+05	1.11E+05	-7.28E+06	6.70E+06
1/20	3.61E+03	-3.78E+05	2.89E+05	-3.78E+05	2.86E+05	-7.63E+06	5.65E+06
1/15	7.66E+03	-5.23E+05	4.02E+05	-5.24E+05	3.96E+05	-7.97E+06	5.83E+06
1/10	—	—	—	—	—	—	—

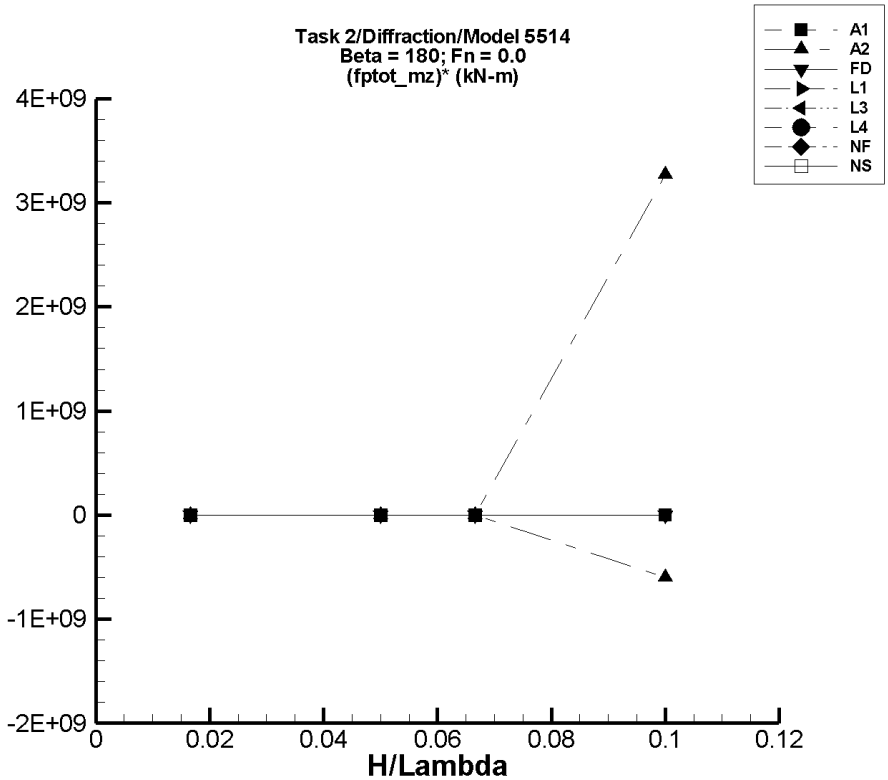

Figure R–60. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–473. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-0.133	-37.1	38.0	-36.6	37.9	-2.19E+03	2.28E+03
1/20	-0.397	-111.	114.	-110.	114.	-2.18E+03	2.28E+03
1/15	-0.528	-148.	152.	-146.	151.	-2.18E+03	2.28E+03
1/10	-0.793	-222.	228.	-219.	227.	-2.18E+03	2.28E+03

Table R–474. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-0.132	-37.1	38.0	-36.6	37.9	-2.19E+03	2.28E+03
1/20	-2.06E+03	-3.48E+05	114.	-4.64E+04	4.08E+03	-8.87E+05	1.23E+05
1/15	4.13E+03	-1.73E+03	3.93E+05	-4.73E+03	5.31E+04	-1.33E+05	7.34E+05
1/10	2.94E+07	-7.78E+05	2.67E+09	-3.05E+07	3.57E+08	-5.99E+08	3.27E+09

Table R–475. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.05E-04	-1.68E-02	2.98E-02	-1.24E-02	1.52E-02	-0.788	0.869
1/20	1.48E-03	-4.42E-02	9.71E-02	-3.72E-02	4.37E-02	-0.773	0.844
1/15	1.93E-03	-7.25E-02	0.135	-4.93E-02	5.76E-02	-0.769	0.834
1/10	1.83E-03	-0.166	0.194	-7.31E-02	8.59E-02	-0.749	0.841

Table R–476. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–477. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–478. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–479. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–480. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.51E-03	-4.16	4.17	-0.118	9.49E-02	-6.91	5.84
1/20	3.11E-04	-4.67	4.73	-0.144	0.171	-2.90	3.41
1/15	1.69E-02	-0.993	1.01	-0.112	0.184	-1.93	2.51
1/10	—	—	—	—	—	—	—

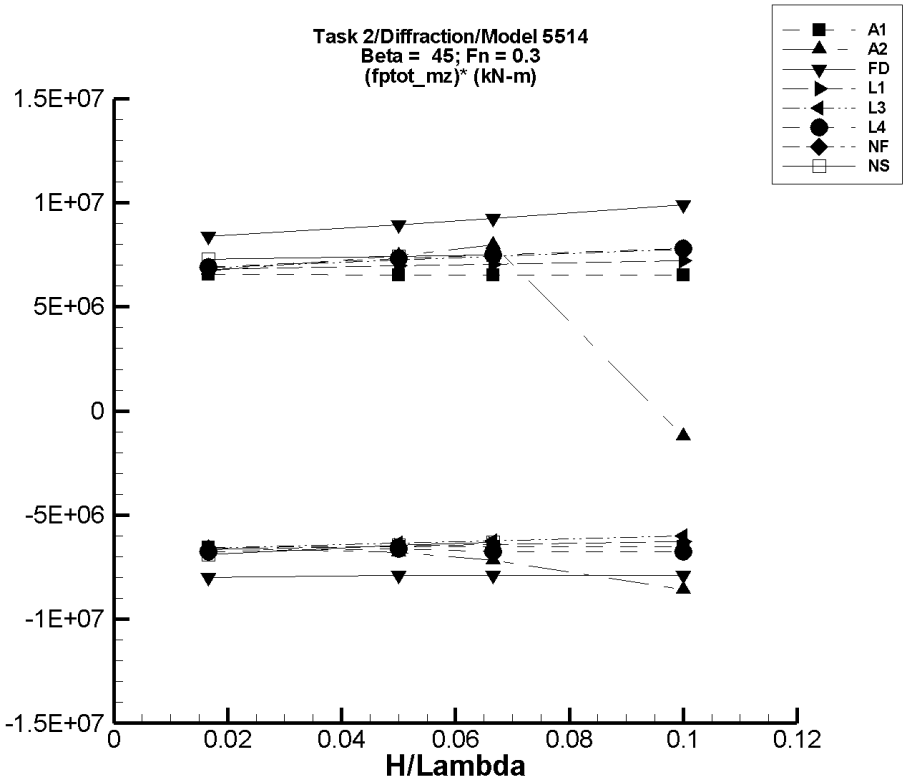

Figure R–61. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–481. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-80.7	-1.10E+05	1.10E+05	-1.09E+05	1.09E+05	-6.55E+06	6.56E+06
1/20	-241.	-3.28E+05	3.28E+05	-3.27E+05	3.27E+05	-6.53E+06	6.54E+06
1/15	-321.	-4.36E+05	4.36E+05	-4.35E+05	4.35E+05	-6.52E+06	6.53E+06
1/10	-483.	-6.56E+05	6.56E+05	-6.54E+05	6.54E+05	-6.53E+06	6.54E+06

Table R–482. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-149.	-1.10E+05	1.12E+05	-1.10E+05	1.12E+05	-6.60E+06	6.72E+06
1/20	-2.26E+03	-4.84E+05	3.73E+05	-3.41E+05	3.71E+05	-6.78E+06	7.47E+06
1/15	-1.38E+03	-6.42E+05	5.32E+05	-4.79E+05	5.29E+05	-7.16E+06	7.96E+06
1/10	4.74E+05	-9.90E+05	3.59E+05	-3.84E+05	3.54E+05	-8.58E+06	-1.21E+06

Table R–483. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-79.0	-1.34E+05	1.40E+05	-1.33E+05	1.40E+05	-7.99E+06	8.38E+06
1/20	-37.9	-3.95E+05	4.47E+05	-3.95E+05	4.46E+05	-7.90E+06	8.92E+06
1/15	127.	-5.26E+05	6.17E+05	-5.25E+05	6.16E+05	-7.88E+06	9.24E+06
1/10	409.	-7.90E+05	9.93E+05	-7.89E+05	9.91E+05	-7.89E+06	9.90E+06

Table R–484. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-285.	-1.11E+05	1.13E+05	-1.11E+05	1.13E+05	-6.65E+06	6.81E+06
1/20	-2.66E+03	-3.27E+05	3.46E+05	-3.27E+05	3.46E+05	-6.49E+06	6.97E+06
1/15	-4.75E+03	-4.33E+05	4.66E+05	-4.32E+05	4.66E+05	-6.41E+06	7.06E+06
1/10	-1.07E+04	-6.38E+05	7.13E+05	-6.38E+05	7.12E+05	-6.27E+06	7.23E+06

Table R–485. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	-282.	-1.10E+05	1.15E+05	-1.10E+05	1.14E+05	-6.59E+06	6.88E+06
1/20	-2.55E+03	-3.20E+05	3.59E+05	-3.20E+05	3.59E+05	-6.35E+06	7.23E+06
1/15	-4.44E+03	-4.21E+05	4.91E+05	-4.21E+05	4.90E+05	-6.25E+06	7.42E+06
1/10	-1.02E+04	-6.12E+05	7.67E+05	-6.11E+05	7.66E+05	-6.01E+06	7.77E+06

Table R–486. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{ptot}}\right)^*$ Max. (kN-m)
1/60	2.87E+03	-1.13E+05	1.25E+05	-1.09E+05	1.18E+05	-6.74E+06	6.92E+06
1/20	2.37E+04	-3.09E+05	4.09E+05	-3.08E+05	3.89E+05	-6.63E+06	7.31E+06
1/15	4.43E+04	-4.07E+05	5.70E+05	-4.06E+05	5.44E+05	-6.76E+06	7.49E+06
1/10	1.09E+05	-5.83E+05	1.08E+06	-5.68E+05	8.91E+05	-6.77E+06	7.81E+06

Table R–487. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–488. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.29E+03	-1.21E+05	1.16E+05	-1.20E+05	1.16E+05	-6.90E+06	7.28E+06
1/20	-3.89E+04	-3.65E+05	3.33E+05	-3.61E+05	3.32E+05	-6.44E+06	7.42E+06
1/15	-6.09E+04	-4.84E+05	4.43E+05	-4.81E+05	4.39E+05	-6.30E+06	7.49E+06
1/10	—	—	—	—	—	—	—

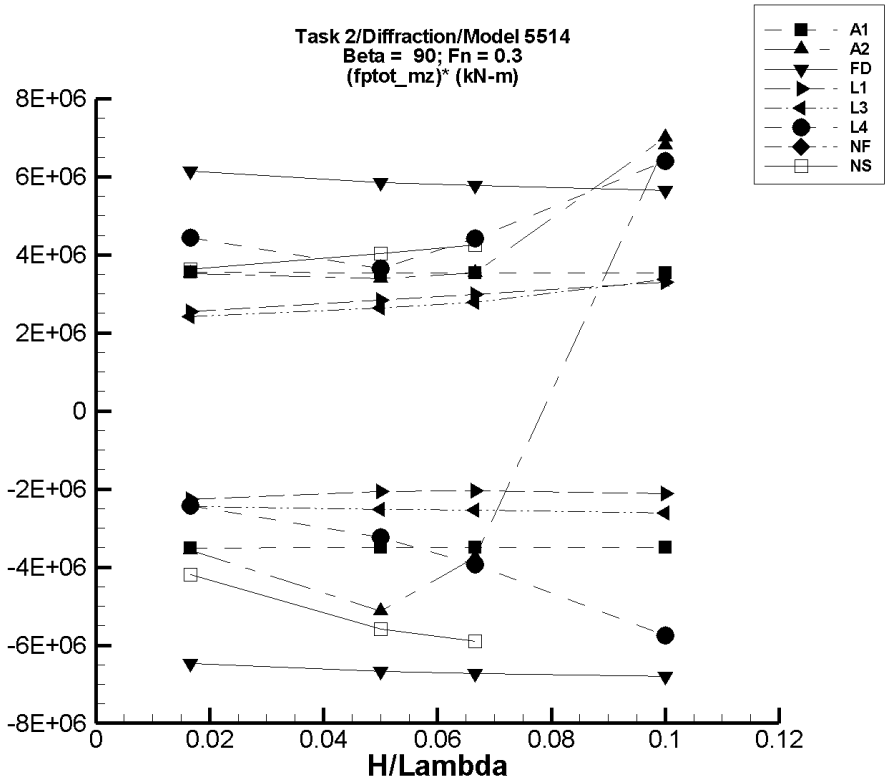

Figure R–62. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–489. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-59.9	-5.92E+04	5.97E+04	-5.85E+04	5.92E+04	-3.51E+06	3.55E+06
1/20	-179.	-1.77E+05	1.79E+05	-1.75E+05	1.77E+05	-3.50E+06	3.54E+06
1/15	-239.	-2.36E+05	2.38E+05	-2.33E+05	2.36E+05	-3.49E+06	3.54E+06
1/10	-359.	-3.54E+05	3.57E+05	-3.50E+05	3.54E+05	-3.50E+06	3.54E+06

Table R–490. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-198.	-6.03E+04	5.92E+04	-5.95E+04	5.86E+04	-3.56E+06	3.53E+06
1/20	6.97E+03	-5.27E+05	6.30E+05	-2.49E+05	1.77E+05	-5.12E+06	3.40E+06
1/15	1.20E+03	-6.02E+05	3.04E+05	-2.49E+05	2.36E+05	-3.75E+06	3.53E+06
1/10	-2.95E+05	3.85E+05	4.05E+05	3.85E+05	4.05E+05	6.80E+06	7.00E+06

Table R–491. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-1.42	-1.09E+05	1.04E+05	-1.08E+05	1.02E+05	-6.46E+06	6.15E+06
1/20	49.8	-3.38E+05	2.95E+05	-3.34E+05	2.93E+05	-6.67E+06	5.85E+06
1/15	93.1	-4.55E+05	3.86E+05	-4.49E+05	3.85E+05	-6.73E+06	5.77E+06
1/10	-666.	-6.91E+05	5.59E+05	-6.80E+05	5.63E+05	-6.79E+06	5.64E+06

Table R–492. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	811.	-3.70E+04	4.33E+04	-3.69E+04	4.31E+04	-2.26E+06	2.54E+06
1/20	7.29E+03	-9.63E+04	1.50E+05	-9.60E+04	1.49E+05	-2.07E+06	2.84E+06
1/15	1.30E+04	-1.23E+05	2.14E+05	-1.23E+05	2.12E+05	-2.04E+06	2.99E+06
1/10	2.92E+04	-1.84E+05	3.61E+05	-1.83E+05	3.59E+05	-2.12E+06	3.30E+06

Table R–493. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	807.	-4.01E+04	4.14E+04	-3.99E+04	4.12E+04	-2.45E+06	2.42E+06
1/20	7.20E+03	-1.19E+05	1.40E+05	-1.18E+05	1.39E+05	-2.51E+06	2.63E+06
1/15	1.28E+04	-1.58E+05	1.99E+05	-1.56E+05	1.98E+05	-2.54E+06	2.78E+06
1/10	2.82E+04	-2.36E+05	3.68E+05	-2.33E+05	3.64E+05	-2.61E+06	3.36E+06

Table R–494. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.72E+03	-4.17E+04	7.97E+04	-3.67E+04	7.78E+04	-2.42E+06	4.44E+06
1/20	3.48E+04	-1.36E+05	2.30E+05	-1.27E+05	2.17E+05	-3.24E+06	3.65E+06
1/15	6.36E+04	-2.06E+05	3.70E+05	-1.98E+05	3.58E+05	-3.93E+06	4.42E+06
1/10	1.56E+05	-4.38E+05	1.10E+06	-4.19E+05	7.96E+05	-5.75E+06	6.40E+06

Table R–495. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–496. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-9.76E+03	-8.08E+04	5.11E+04	-7.96E+04	5.07E+04	-4.19E+06	3.63E+06
1/20	-6.94E+04	-3.59E+05	1.34E+05	-3.49E+05	1.32E+05	-5.58E+06	4.03E+06
1/15	-1.10E+05	-5.13E+05	1.76E+05	-5.03E+05	1.74E+05	-5.90E+06	4.25E+06
1/10	—	—	—	—	—	—	—

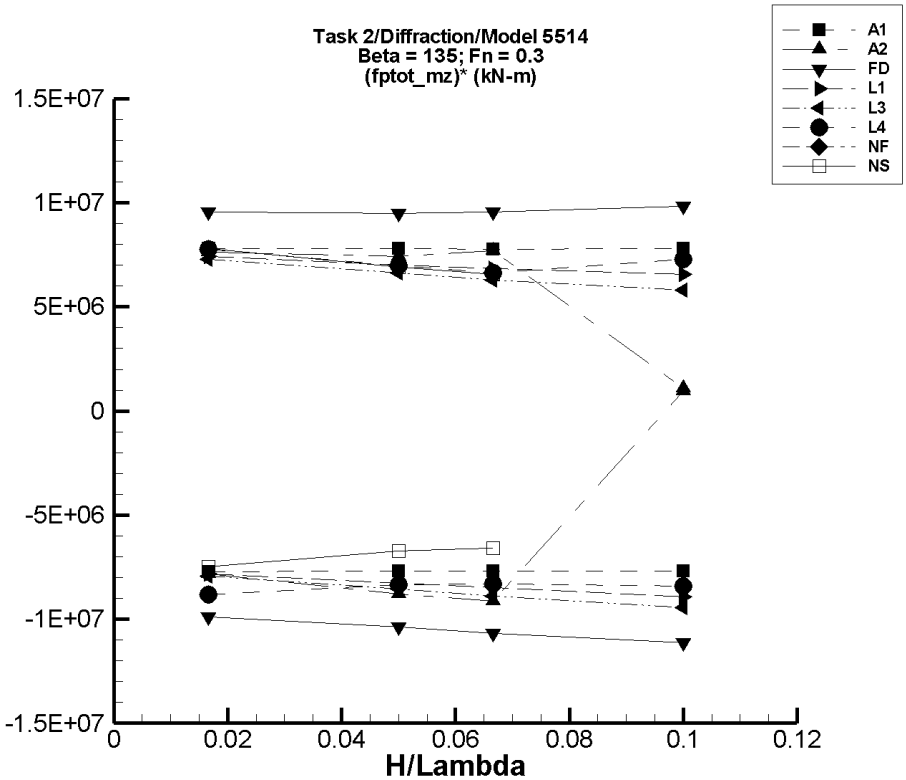

Figure R–63. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–497. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	152.	-1.32E+05	1.34E+05	-1.28E+05	1.30E+05	-7.71E+06	7.81E+06
1/20	455.	-3.94E+05	4.00E+05	-3.84E+05	3.90E+05	-7.69E+06	7.79E+06
1/15	605.	-5.25E+05	5.33E+05	-5.11E+05	5.19E+05	-7.68E+06	7.78E+06
1/10	909.	-7.89E+05	8.00E+05	-7.68E+05	7.80E+05	-7.69E+06	7.79E+06

Table R–498. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	50.4	-1.34E+05	1.30E+05	-1.31E+05	1.27E+05	-7.84E+06	7.64E+06
1/20	8.49E+03	-4.40E+05	6.60E+05	-4.31E+05	3.79E+05	-8.78E+06	7.41E+06
1/15	-5.09E+03	-6.29E+05	5.15E+05	-6.13E+05	5.07E+05	-9.12E+06	7.69E+06
1/10	6.22E+05	7.18E+05	7.33E+05	7.18E+05	7.33E+05	9.59E+05	1.11E+06

Table R–499. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-125.	-1.70E+05	1.63E+05	-1.65E+05	1.59E+05	-9.88E+06	9.57E+06
1/20	-394.	-5.35E+05	4.85E+05	-5.20E+05	4.75E+05	-1.04E+07	9.50E+06
1/15	-604.	-7.34E+05	6.47E+05	-7.12E+05	6.36E+05	-1.07E+07	9.54E+06
1/10	-909.	-1.15E+06	1.01E+06	-1.11E+06	9.82E+05	-1.11E+07	9.83E+06

Table R–500. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.20E+03	-1.31E+05	1.26E+05	-1.29E+05	1.25E+05	-7.83E+06	7.41E+06
1/20	1.04E+04	-4.07E+05	3.64E+05	-4.03E+05	3.61E+05	-8.26E+06	7.02E+06
1/15	1.84E+04	-5.54E+05	4.78E+05	-5.47E+05	4.75E+05	-8.48E+06	6.84E+06
1/10	4.13E+04	-8.64E+05	7.02E+05	-8.52E+05	6.98E+05	-8.93E+06	6.57E+06

Table R–501. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.20E+03	-1.33E+05	1.24E+05	-1.31E+05	1.23E+05	-7.93E+06	7.30E+06
1/20	1.03E+04	-4.23E+05	3.43E+05	-4.18E+05	3.41E+05	-8.56E+06	6.61E+06
1/15	1.82E+04	-5.81E+05	4.38E+05	-5.73E+05	4.36E+05	-8.87E+06	6.27E+06
1/10	4.08E+04	-9.19E+05	6.23E+05	-9.05E+05	6.20E+05	-9.45E+06	5.79E+06

Table R–502. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	5.28E+03	-1.46E+05	1.39E+05	-1.42E+05	1.35E+05	-8.83E+06	7.76E+06
1/20	3.28E+04	-3.90E+05	3.87E+05	-3.84E+05	3.82E+05	-8.34E+06	6.98E+06
1/15	5.80E+04	-5.09E+05	5.10E+05	-4.96E+05	5.01E+05	-8.32E+06	6.64E+06
1/10	1.32E+05	-8.71E+05	9.51E+05	-7.08E+05	8.61E+05	-8.40E+06	7.29E+06

Table R–503. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–504. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.22E+03	-1.31E+05	1.26E+05	-1.31E+05	1.24E+05	-7.48E+06	7.80E+06
1/20	-4.24E+04	-3.83E+05	3.08E+05	-3.79E+05	3.02E+05	-6.72E+06	6.89E+06
1/15	-6.43E+04	-5.07E+05	3.81E+05	-5.02E+05	3.74E+05	-6.57E+06	6.57E+06
1/10	—	—	—	—	—	—	—

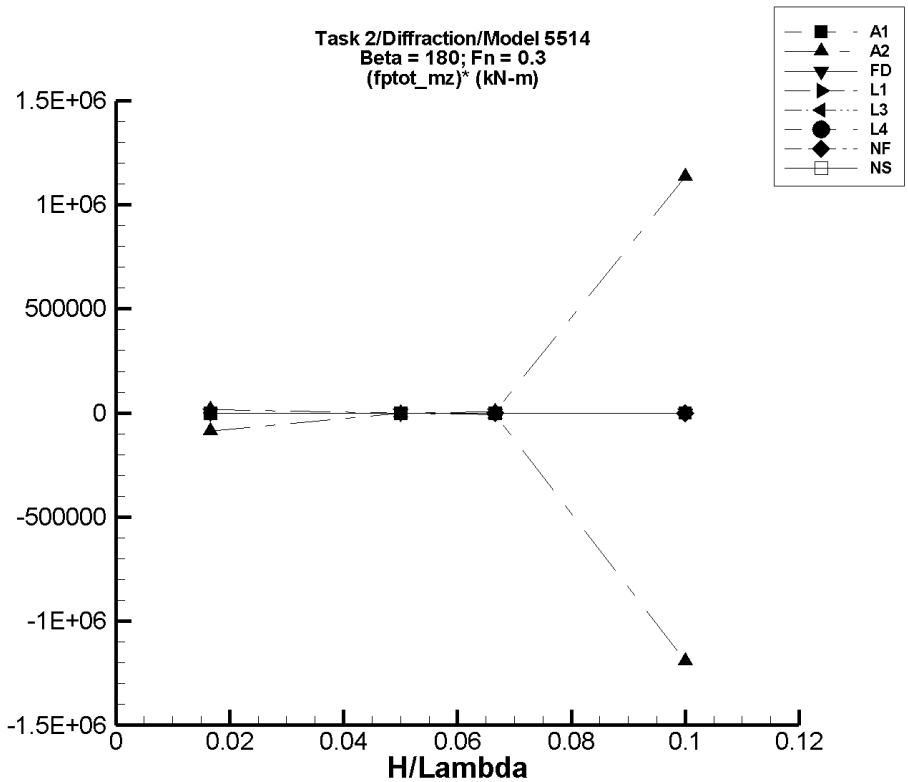

Figure R–64. Minimum and Maximum of $(M_z^{\text{ptot}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–505. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	7.22E-02	-7.87	7.32	-6.94	7.08	-421.	421.
1/20	0.216	-23.6	21.9	-20.8	21.2	-419.	420.
1/15	0.288	-31.4	29.2	-27.6	28.2	-419.	419.
1/10	0.432	-47.1	43.8	-41.5	42.4	-419.	420.

Table R–506. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-145.	-1.19E+04	7.32	-1.59E+03	143.	-8.65E+04	1.73E+04
1/20	0.219	-23.9	21.9	-20.7	21.2	-419.	420.
1/15	-67.9	-1.55E+03	3.19E+03	-588.	230.	-7.80E+03	4.47E+03
1/10	-873.	-6.12E+05	8.26E+05	-1.20E+05	1.13E+05	-1.19E+06	1.13E+06

Table R–507. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m)	Unfiltered M_z^{ptot} Min. (kN-m)	Unfiltered M_z^{ptot} Max. (kN-m)	Filtered M_z^{ptot} Min. (kN-m)	Filtered M_z^{ptot} Max. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{ptot}})^*$ Max. (kN-m)
1/60	-8.63E-04	-6.67E-02	6.37E-02	-4.80E-02	5.61E-02	-2.83	3.42
1/20	-7.82E-04	-0.220	0.189	-0.157	0.157	-3.12	3.15
1/15	-6.34E-04	-0.400	0.256	-0.282	0.218	-4.22	3.28
1/10	8.83E-03	-0.730	0.552	-0.462	0.346	-4.71	3.37

Table R–508. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–509. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–510. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–511. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	-8.44	-9.43	-7.48	-9.42	-7.47	-19.7	19.4
1/15	-15.6	-18.8	-13.8	-17.3	-13.8	-26.0	25.9
1/10	-36.1	-83.1	41.3	-62.2	15.9	-261.	520.

Table R–512. Minimum and Maximum of M_z^{ptot} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{ptot}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{ptot} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{ptot}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.08E-03	-0.147	0.167	-3.00E-02	3.52E-02	-1.86	2.05
1/20	-1.06E-03	-0.402	0.488	-9.63E-02	5.66E-02	-1.90	1.15
1/15	2.57E-03	-0.806	0.851	-0.156	0.112	-2.37	1.65
1/10	—	—	—	—	—	—	—

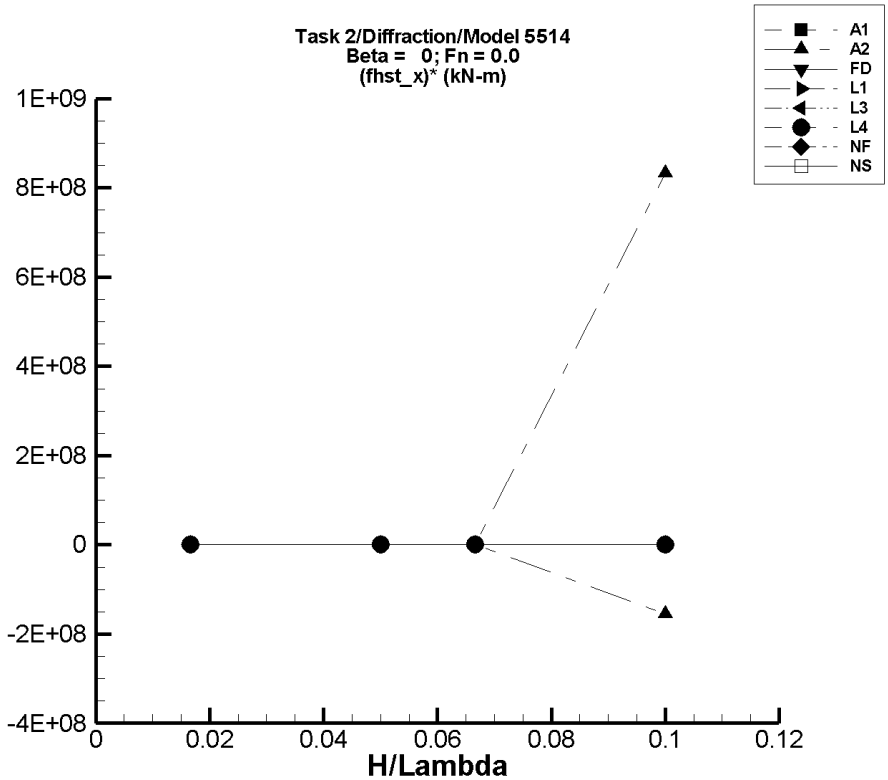

Figure R–65. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–513. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–514. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	46.9	-67.4	127.	-60.5	124.	-6.44E+03	4.64E+03
1/20	16.9	-613.	590.	-585.	577.	-1.20E+04	1.12E+04
1/15	48.2	-963.	1.03E+03	-955.	1.02E+03	-1.51E+04	1.46E+04
1/10	7.74E+06	-1.30E+03	6.82E+08	-7.77E+06	9.09E+07	-1.55E+08	8.32E+08

Table R–515. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.5	-93.0	40.9	-89.0	38.4	-3.99E+03	3.65E+03
1/20	-30.9	-667.	533.	-647.	522.	-1.23E+04	1.11E+04
1/15	-41.8	-995.	791.	-994.	690.	-1.43E+04	1.10E+04
1/10	-27.5	-1.41E+03	2.00E+03	-1.28E+03	1.90E+03	-1.25E+04	1.93E+04

Table R–516. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–517. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-84.3	46.0	-83.0	45.2	-3.98E+03	3.71E+03
1/20	-17.2	-661.	557.	-652.	552.	-1.27E+04	1.14E+04
1/15	-30.7	-997.	825.	-988.	766.	-1.44E+04	1.19E+04
1/10	-14.4	-1.41E+03	1.95E+03	-1.29E+03	1.90E+03	-1.28E+04	1.92E+04

Table R–518. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-84.3	46.0	-83.0	45.2	-3.98E+03	3.71E+03
1/20	-17.2	-661.	557.	-652.	552.	-1.27E+04	1.14E+04
1/15	-30.7	-997.	825.	-988.	766.	-1.44E+04	1.19E+04
1/10	-14.4	-1.41E+03	1.95E+03	-1.29E+03	1.90E+03	-1.28E+04	1.92E+04

Table R–519. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–520. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

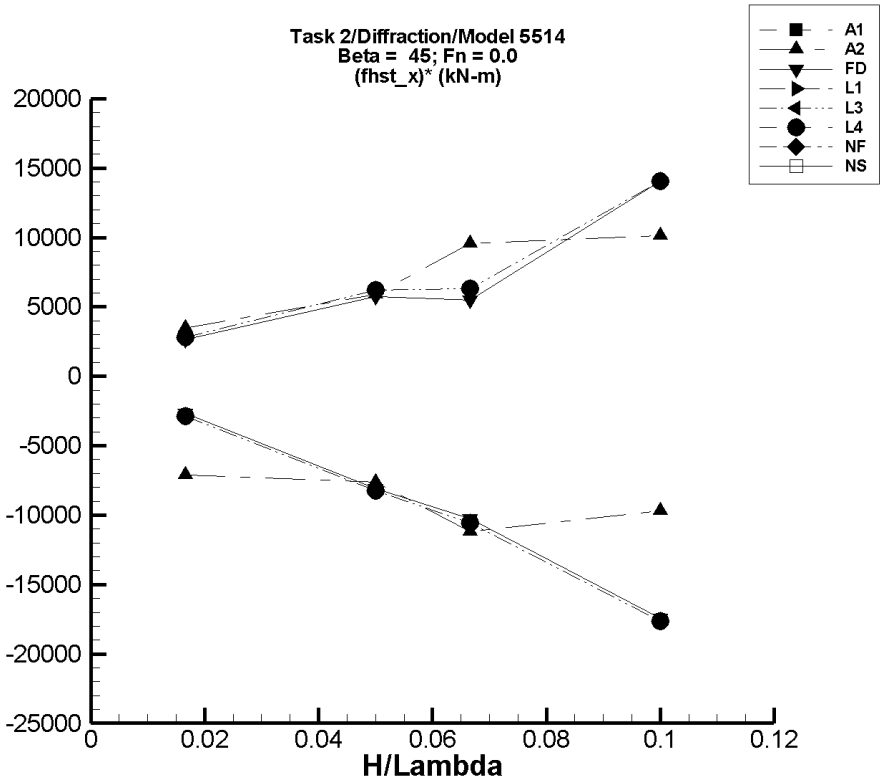

Figure R–66. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–521. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–522. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	38.2	-816.	94.9	-80.2	96.3	-7.10E+03	3.48E+03
1/20	21.1	-378.	333.	-361.	316.	-7.64E+03	5.90E+03
1/15	70.2	-950.	750.	-674.	707.	-1.12E+04	9.55E+03
1/10	898.	-431.	3.91E+03	-70.5	1.91E+03	-9.69E+03	1.01E+04

Table R–523. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.0	-68.7	24.4	-66.7	22.4	-2.68E+03	2.67E+03
1/20	-18.2	-440.	287.	-423.	270.	-8.09E+03	5.77E+03
1/15	-19.7	-747.	422.	-703.	345.	-1.03E+04	5.47E+03
1/10	-56.4	-1.93E+03	1.45E+03	-1.80E+03	1.35E+03	-1.75E+04	1.41E+04

Table R–524. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–525. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-64.9	31.1	-64.2	30.3	-2.85E+03	2.82E+03
1/20	-15.7	-433.	301.	-428.	295.	-8.24E+03	6.21E+03
1/15	-26.0	-741.	411.	-729.	393.	-1.06E+04	6.29E+03
1/10	-53.4	-1.86E+03	1.40E+03	-1.82E+03	1.35E+03	-1.76E+04	1.41E+04

Table R–526. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-64.9	31.1	-64.2	30.3	-2.85E+03	2.82E+03
1/20	-15.7	-433.	301.	-428.	295.	-8.24E+03	6.21E+03
1/15	-26.0	-741.	411.	-729.	393.	-1.06E+04	6.29E+03
1/10	-53.4	-1.86E+03	1.40E+03	-1.82E+03	1.35E+03	-1.76E+04	1.41E+04

Table R–527. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–528. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

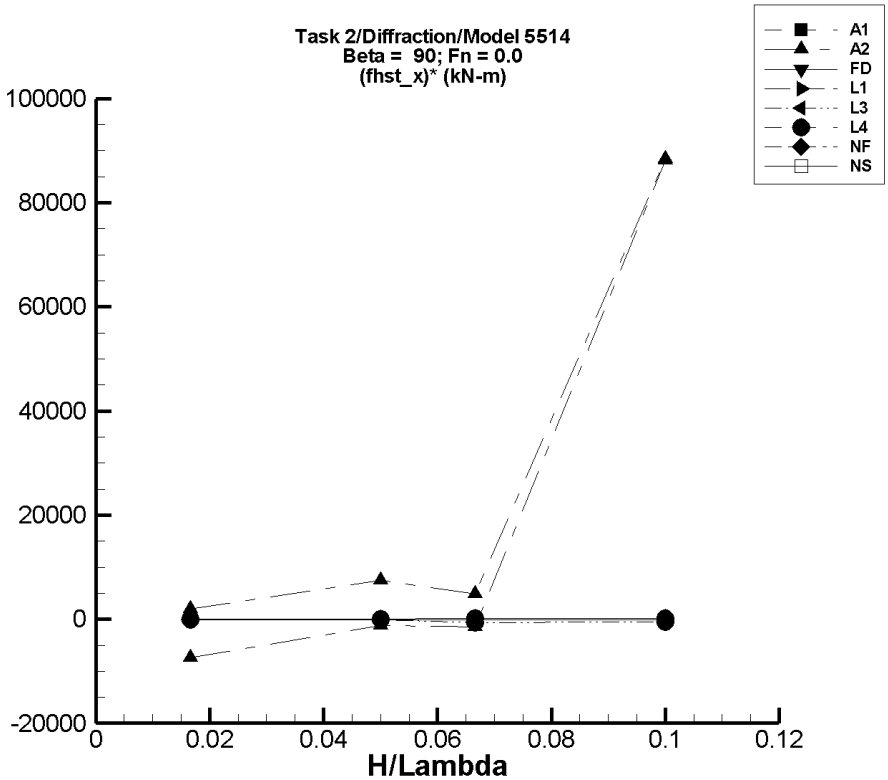

Figure R–67. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–529. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–530. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	38.3	-822.	71.8	-85.3	71.8	-7.41E+03	2.01E+03
1/20	36.6	-44.7	2.85E+03	-21.3	412.	-1.16E+03	7.50E+03
1/15	66.2	-54.0	482.	-29.7	386.	-1.44E+03	4.79E+03
1/10	-6.53E+03	2.29E+03	2.31E+03	2.29E+03	2.31E+03	8.82E+04	8.85E+04

Table R–531. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.2	-24.2	-21.1	-23.8	-21.2	-97.9	62.6
1/20	-23.9	-29.4	-21.2	-26.6	-21.4	-53.5	49.9
1/15	-22.8	-29.8	-15.6	-26.5	-16.2	-55.4	97.7
1/10	-17.3	-37.1	6.96	-34.6	5.37	-173.	227.

Table R–532. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–533. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-17.6	-15.6	-17.5	-15.7	-53.0	55.6
1/20	-18.9	-28.2	-13.4	-25.3	-15.3	-128.	71.6
1/15	-23.4	-68.6	-8.28	-66.3	-9.40	-642.	210.
1/10	-18.0	-92.0	25.1	-69.1	2.03	-511.	200.

Table R–534. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-17.6	-15.6	-17.5	-15.7	-53.0	55.6
1/20	-18.9	-28.2	-13.4	-25.3	-15.3	-128.	71.6
1/15	-23.4	-68.6	-8.28	-66.3	-9.40	-642.	210.
1/10	-18.0	-92.0	25.1	-69.1	2.03	-511.	200.

Table R–535. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–536. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

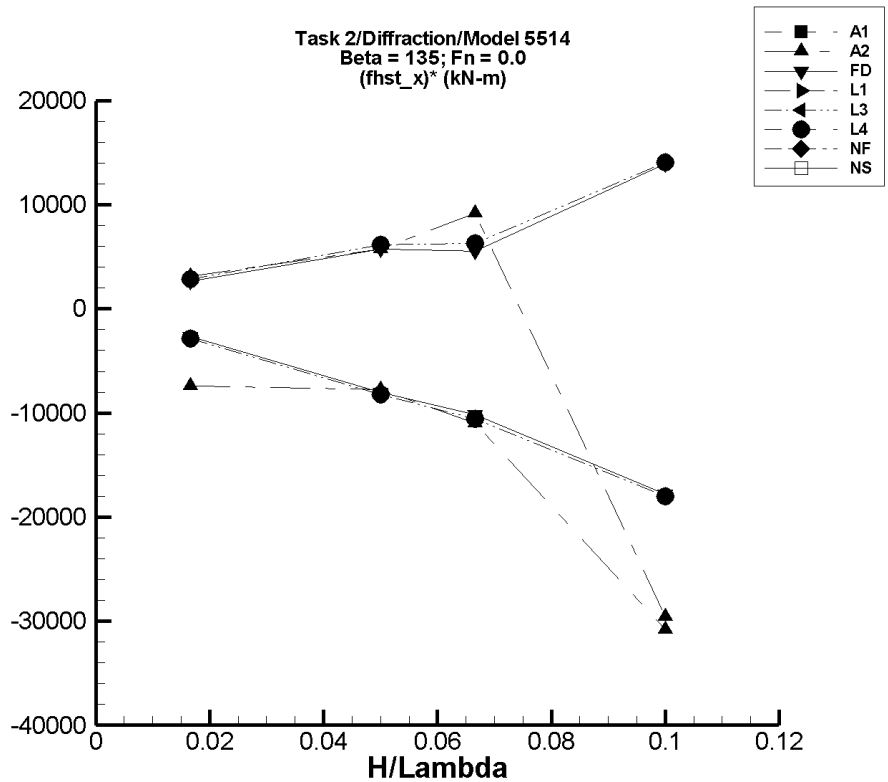

Figure R–68. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–537. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–538. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	41.6	-815.	94.9	-82.3	93.6	-7.43E+03	3.12E+03
1/20	28.5	-377.	333.	-360.	316.	-7.77E+03	5.75E+03
1/15	82.9	-682.	748.	-647.	693.	-1.10E+04	9.15E+03
1/10	3.50E+03	419.	544.	419.	544.	-3.08E+04	-2.95E+04

Table R–539. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.3	-68.7	24.4	-66.7	22.2	-2.67E+03	2.67E+03
1/20	-20.0	-440.	287.	-422.	269.	-8.05E+03	5.77E+03
1/15	-26.0	-749.	423.	-704.	345.	-1.02E+04	5.56E+03
1/10	-43.8	-1.93E+03	1.45E+03	-1.82E+03	1.35E+03	-1.78E+04	1.39E+04

Table R–540. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–541. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.7	-64.9	31.1	-64.2	30.3	-2.85E+03	2.82E+03
1/20	-14.4	-433.	301.	-428.	295.	-8.27E+03	6.18E+03
1/15	-25.7	-741.	411.	-729.	393.	-1.05E+04	6.28E+03
1/10	-53.5	-1.87E+03	1.40E+03	-1.86E+03	1.35E+03	-1.80E+04	1.41E+04

Table R–542. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.7	-64.9	31.1	-64.2	30.3	-2.85E+03	2.82E+03
1/20	-14.4	-433.	301.	-428.	295.	-8.27E+03	6.18E+03
1/15	-25.7	-741.	411.	-729.	393.	-1.05E+04	6.28E+03
1/10	-53.5	-1.87E+03	1.40E+03	-1.86E+03	1.35E+03	-1.80E+04	1.41E+04

Table R–543. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–544. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

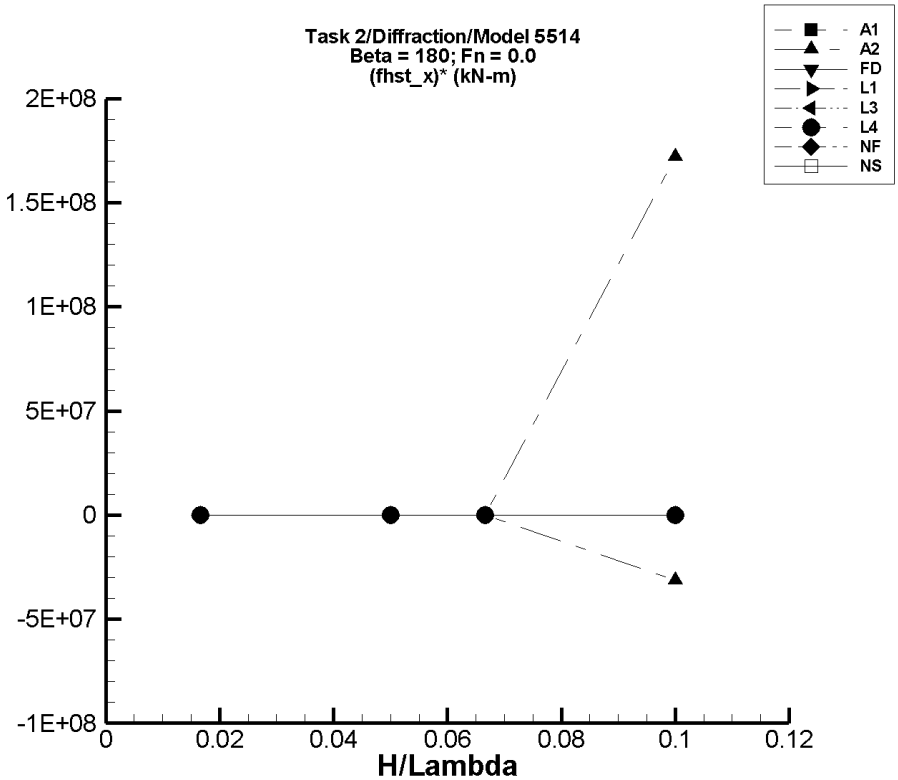

Figure R–69. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–545. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–546. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	46.9	-67.6	127.	-62.4	124.	-6.56E+03	4.64E+03
1/20	15.9	-689.	590.	-586.	575.	-1.20E+04	1.12E+04
1/15	49.4	-984.	1.03E+03	-958.	1.02E+03	-1.51E+04	1.45E+04
1/10	1.55E+06	-1.30E+03	1.41E+08	-1.60E+06	1.88E+07	-3.15E+07	1.72E+08

Table R–547. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.4	-93.0	40.9	-88.9	40.2	-3.99E+03	3.75E+03
1/20	-34.7	-667.	532.	-645.	533.	-1.22E+04	1.13E+04
1/15	-41.7	-995.	789.	-970.	691.	-1.39E+04	1.10E+04
1/10	-30.6	-1.41E+03	2.01E+03	-1.30E+03	1.91E+03	-1.27E+04	1.94E+04

Table R–548. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–549. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.5	-84.3	46.0	-83.1	45.2	-3.99E+03	3.70E+03
1/20	-21.5	-661.	557.	-652.	552.	-1.26E+04	1.15E+04
1/15	-31.6	-997.	823.	-991.	765.	-1.44E+04	1.20E+04
1/10	-7.62	-1.40E+03	1.94E+03	-1.31E+03	1.90E+03	-1.30E+04	1.91E+04

Table R–550. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.5	-84.3	46.0	-83.1	45.2	-3.99E+03	3.70E+03
1/20	-21.5	-661.	557.	-652.	552.	-1.26E+04	1.15E+04
1/15	-31.6	-997.	823.	-991.	765.	-1.44E+04	1.20E+04
1/10	-7.62	-1.40E+03	1.94E+03	-1.31E+03	1.90E+03	-1.30E+04	1.91E+04

Table R–551. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–552. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

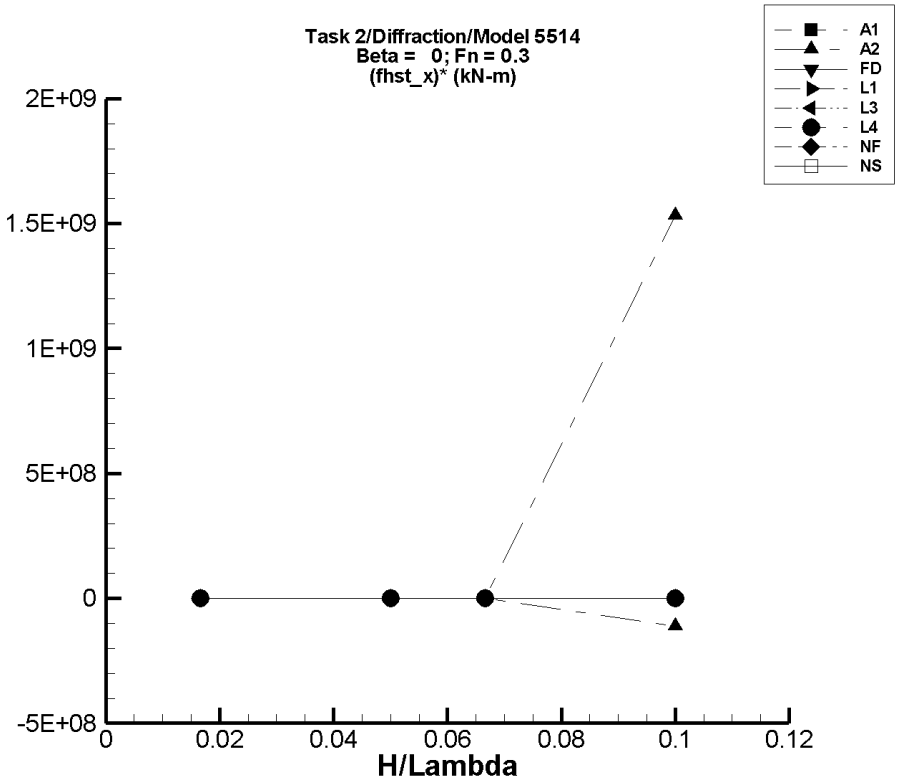

Figure R–70. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–553. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–554. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	45.4	-767.	127.	-67.3	127.	-6.76E+03	4.88E+03
1/20	17.6	-1.28E+03	590.	-616.	589.	-1.27E+04	1.14E+04
1/15	63.6	-996.	4.68E+03	-961.	1.03E+03	-1.54E+04	1.45E+04
1/10	3.82E+06	-1.30E+03	6.15E+08	-7.33E+06	1.57E+08	-1.12E+08	1.53E+09

Table R–555. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.3	-93.1	40.9	-92.8	40.8	-4.23E+03	3.79E+03
1/20	-28.7	-667.	533.	-665.	530.	-1.27E+04	1.12E+04
1/15	-38.2	-995.	803.	-994.	777.	-1.43E+04	1.22E+04
1/10	-20.7	-1.42E+03	2.01E+03	-1.37E+03	1.98E+03	-1.35E+04	2.00E+04

Table R–556. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–557. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.5	-84.3	46.0	-84.2	46.0	-4.06E+03	3.75E+03
1/20	-18.5	-662.	557.	-661.	555.	-1.29E+04	1.15E+04
1/15	-22.7	-997.	831.	-997.	820.	-1.46E+04	1.26E+04
1/10	-20.6	-1.41E+03	1.95E+03	-1.38E+03	1.94E+03	-1.36E+04	1.96E+04

Table R–558. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.5	-84.3	46.0	-84.2	46.0	-4.06E+03	3.75E+03
1/20	-18.5	-662.	557.	-661.	555.	-1.29E+04	1.15E+04
1/15	-22.7	-997.	831.	-997.	820.	-1.46E+04	1.26E+04
1/10	-20.6	-1.41E+03	1.95E+03	-1.38E+03	1.94E+03	-1.36E+04	1.96E+04

Table R–559. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–560. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

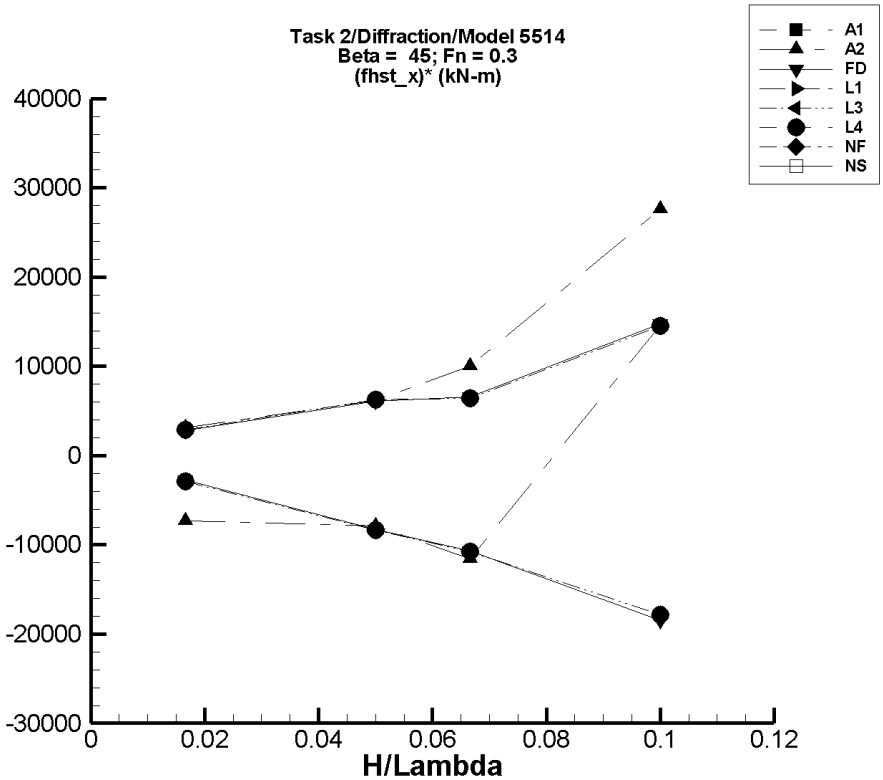

Figure R–71. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–561. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–562. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	42.8	-816.	94.9	-79.5	94.6	-7.34E+03	3.11E+03
1/20	20.8	-378.	333.	-374.	329.	-7.89E+03	6.17E+03
1/15	70.6	-942.	1.52E+03	-701.	738.	-1.16E+04	1.00E+04
1/10	-1.48E+03	-19.5	1.35E+03	-12.9	1.29E+03	1.46E+04	2.76E+04

Table R–563. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.2	-68.8	24.4	-68.3	23.9	-2.77E+03	2.76E+03
1/20	-20.0	-440.	287.	-435.	283.	-8.30E+03	6.06E+03
1/15	-24.3	-750.	425.	-739.	412.	-1.07E+04	6.54E+03
1/10	-52.9	-1.93E+03	1.45E+03	-1.90E+03	1.42E+03	-1.85E+04	1.48E+04

Table R–564. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $(F_x^{\text{hst}})^*$ Min. (kN)	Filtered $(F_x^{\text{hst}})^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–565. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $(F_x^{\text{hst}})^*$ Min. (kN)	Filtered $(F_x^{\text{hst}})^*$ Max. (kN)
1/60	-16.7	-64.9	31.1	-64.8	30.9	-2.89E+03	2.85E+03
1/20	-13.7	-433.	301.	-432.	299.	-8.37E+03	6.26E+03
1/15	-20.2	-741.	411.	-740.	408.	-1.08E+04	6.42E+03
1/10	-65.2	-1.88E+03	1.40E+03	-1.85E+03	1.39E+03	-1.79E+04	1.45E+04

Table R–566. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $(F_x^{\text{hst}})^*$ Min. (kN)	Filtered $(F_x^{\text{hst}})^*$ Max. (kN)
1/60	-16.7	-64.9	31.1	-64.8	30.9	-2.89E+03	2.85E+03
1/20	-13.7	-433.	301.	-432.	299.	-8.37E+03	6.26E+03
1/15	-20.2	-741.	411.	-740.	408.	-1.08E+04	6.42E+03
1/10	-65.2	-1.88E+03	1.40E+03	-1.85E+03	1.39E+03	-1.79E+04	1.45E+04

Table R–567. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–568. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

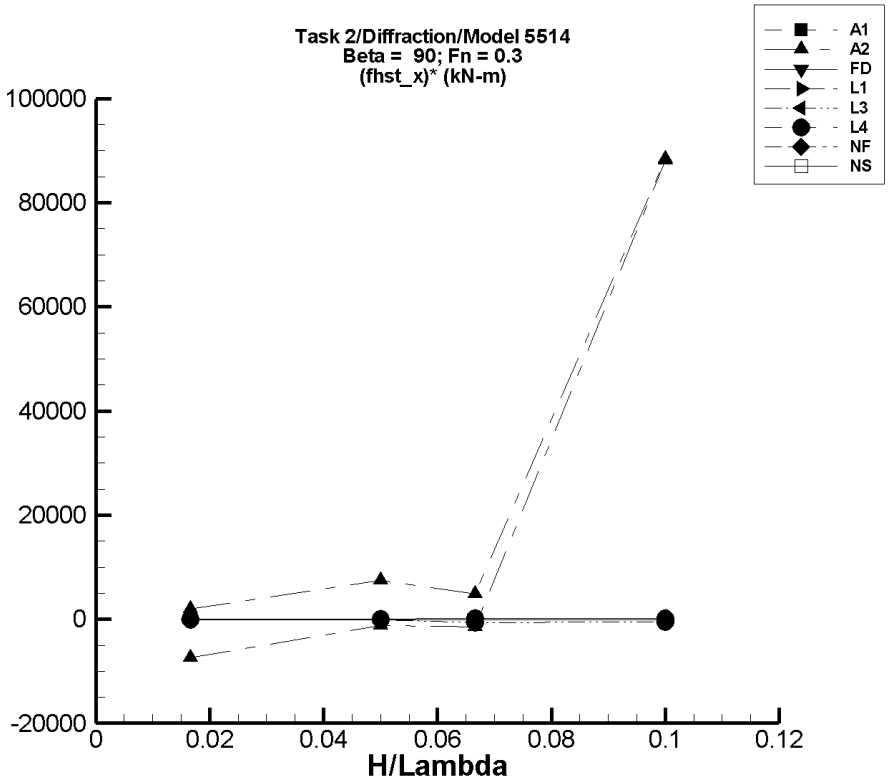

Figure R–72. Minimum and Maximum of $(F_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–569. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–570. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	38.3	-822.	71.8	-85.3	71.8	-7.41E+03	2.01E+03
1/20	36.6	-44.7	2.85E+03	-21.3	412.	-1.16E+03	7.50E+03
1/15	66.2	-54.0	482.	-29.7	386.	-1.44E+03	4.79E+03
1/10	-6.53E+03	2.29E+03	2.31E+03	2.29E+03	2.31E+03	8.82E+04	8.85E+04

Table R–571. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.2	-24.2	-21.1	-23.8	-21.2	-97.9	62.6
1/20	-23.9	-29.4	-21.2	-26.6	-21.4	-53.4	49.9
1/15	-22.8	-29.8	-15.6	-26.4	-16.2	-55.3	97.7
1/10	-17.3	-37.1	6.97	-34.6	5.38	-173.	227.

Table R–572. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–573. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-17.6	-15.6	-17.5	-15.7	-53.0	55.6
1/20	-18.9	-28.2	-13.4	-25.3	-15.3	-128.	71.6
1/15	-23.4	-68.6	-8.28	-66.3	-9.40	-642.	210.
1/10	-18.0	-92.0	25.1	-69.1	2.04	-511.	200.

Table R–574. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-17.6	-15.6	-17.5	-15.7	-53.0	55.6
1/20	-18.9	-28.2	-13.4	-25.3	-15.3	-128.	71.6
1/15	-23.4	-68.6	-8.28	-66.3	-9.40	-642.	210.
1/10	-18.0	-92.0	25.1	-69.1	2.04	-511.	200.

Table R–575. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–576. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

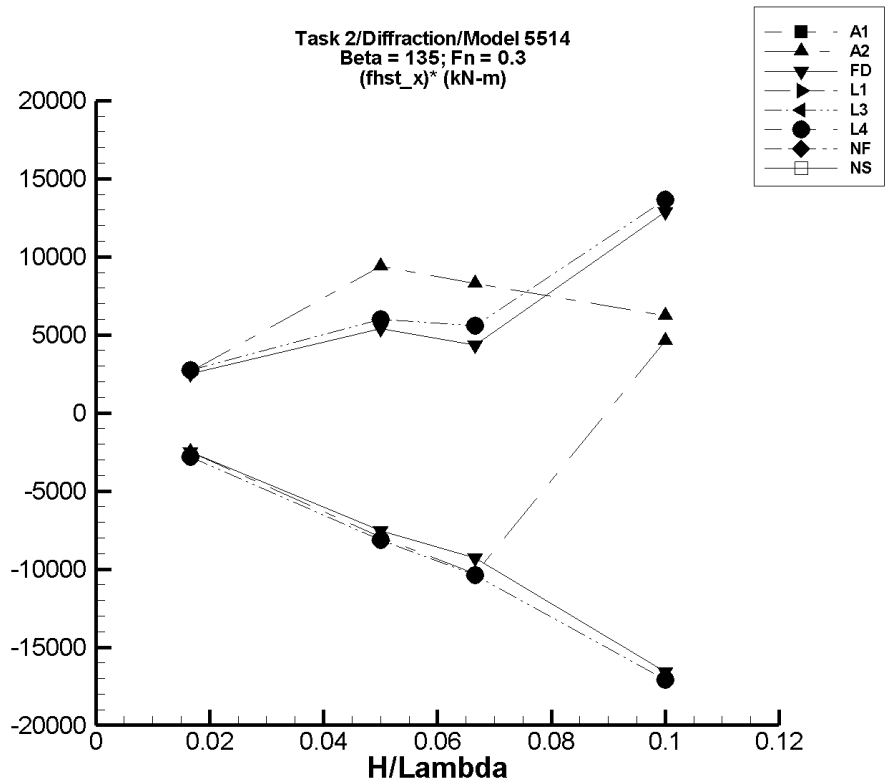

Figure R–73. Minimum and Maximum of $(F_x^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–577. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–578. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	47.1	0.101	94.9	5.72	91.1	-2.48E+03	2.64E+03
1/20	66.4	-377.	2.58E+03	-332.	536.	-7.98E+03	9.39E+03
1/15	74.4	-682.	748.	-612.	627.	-1.03E+04	8.29E+03
1/10	-113.	348.	509.	348.	509.	4.61E+03	6.22E+03

Table R–579. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.4	-68.8	24.3	-64.0	19.4	-2.49E+03	2.51E+03
1/20	-24.0	-440.	287.	-400.	245.	-7.53E+03	5.38E+03
1/15	-28.5	-747.	420.	-647.	262.	-9.28E+03	4.35E+03
1/10	-58.1	-1.93E+03	1.45E+03	-1.72E+03	1.23E+03	-1.66E+04	1.29E+04

Table R–580. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–581. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.7	-64.9	31.0	-63.2	29.2	-2.79E+03	2.75E+03
1/20	-13.6	-433.	301.	-420.	286.	-8.12E+03	5.99E+03
1/15	-18.5	-740.	410.	-710.	355.	-1.04E+04	5.60E+03
1/10	-51.0	-1.86E+03	1.40E+03	-1.76E+03	1.31E+03	-1.71E+04	1.36E+04

Table R–582. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.7	-64.9	31.0	-63.2	29.2	-2.79E+03	2.75E+03
1/20	-13.6	-433.	301.	-420.	286.	-8.12E+03	5.99E+03
1/15	-18.5	-740.	410.	-710.	355.	-1.04E+04	5.60E+03
1/10	-51.0	-1.86E+03	1.40E+03	-1.76E+03	1.31E+03	-1.71E+04	1.36E+04

Table R–583. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–584. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

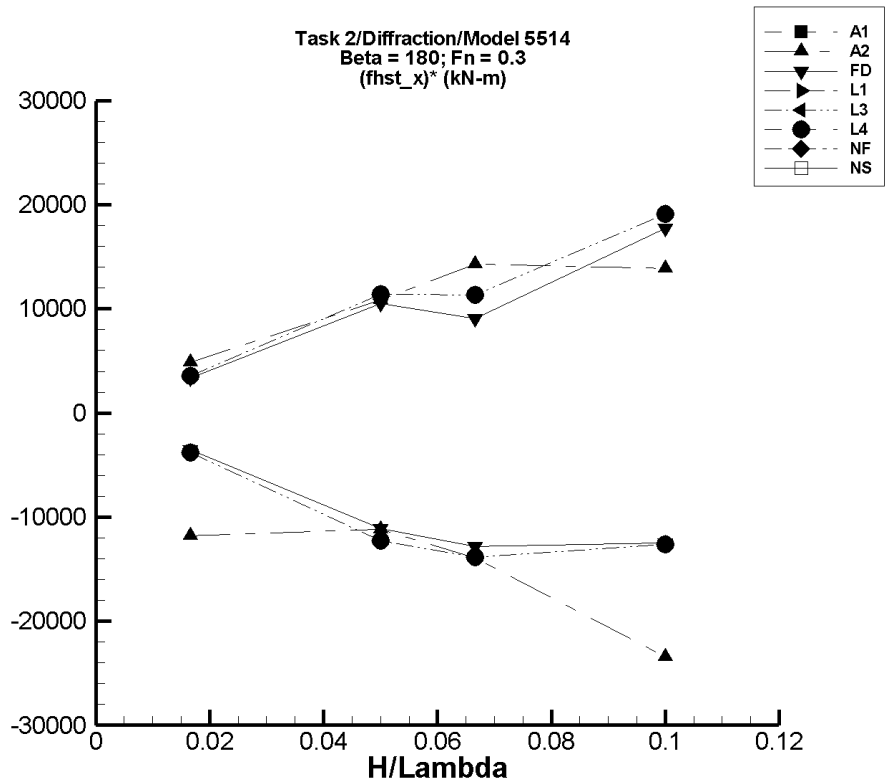

Figure R–74. Minimum and Maximum of $(F_x^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–585. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–586. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	36.8	-917.	127.	-160.	117.	-1.18E+04	4.83E+03
1/20	12.2	-615.	588.	-548.	554.	-1.12E+04	1.08E+04
1/15	47.3	-975.	1.03E+03	-879.	998.	-1.39E+04	1.43E+04
1/10	1.05E+03	-1.30E+03	7.26E+03	-1.30E+03	2.43E+03	-2.34E+04	1.39E+04

Table R–587. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-22.1	-93.0	40.9	-81.4	33.6	-3.56E+03	3.34E+03
1/20	-24.8	-666.	533.	-580.	501.	-1.11E+04	1.05E+04
1/15	-24.1	-995.	787.	-879.	578.	-1.28E+04	9.03E+03
1/10	-23.0	-1.41E+03	2.00E+03	-1.27E+03	1.75E+03	-1.25E+04	1.77E+04

Table R–588. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–589. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-84.2	46.0	-80.3	43.2	-3.82E+03	3.59E+03
1/20	-27.3	-661.	557.	-641.	543.	-1.23E+04	1.14E+04
1/15	-48.6	-997.	817.	-973.	706.	-1.39E+04	1.13E+04
1/10	-20.0	-1.38E+03	1.94E+03	-1.28E+03	1.89E+03	-1.26E+04	1.91E+04

Table R–590. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_x^{hst} Min. (kN)	Unfiltered F_x^{hst} Max. (kN)	Filtered F_x^{hst} Min. (kN)	Filtered F_x^{hst} Max. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{hst}}\right)^*$ Max. (kN)
1/60	-16.6	-84.2	46.0	-80.3	43.2	-3.82E+03	3.59E+03
1/20	-27.3	-661.	557.	-641.	543.	-1.23E+04	1.14E+04
1/15	-48.6	-997.	817.	-973.	706.	-1.39E+04	1.13E+04
1/10	-20.0	-1.38E+03	1.94E+03	-1.28E+03	1.89E+03	-1.26E+04	1.91E+04

Table R–591. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–592. Minimum and Maximum of F_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

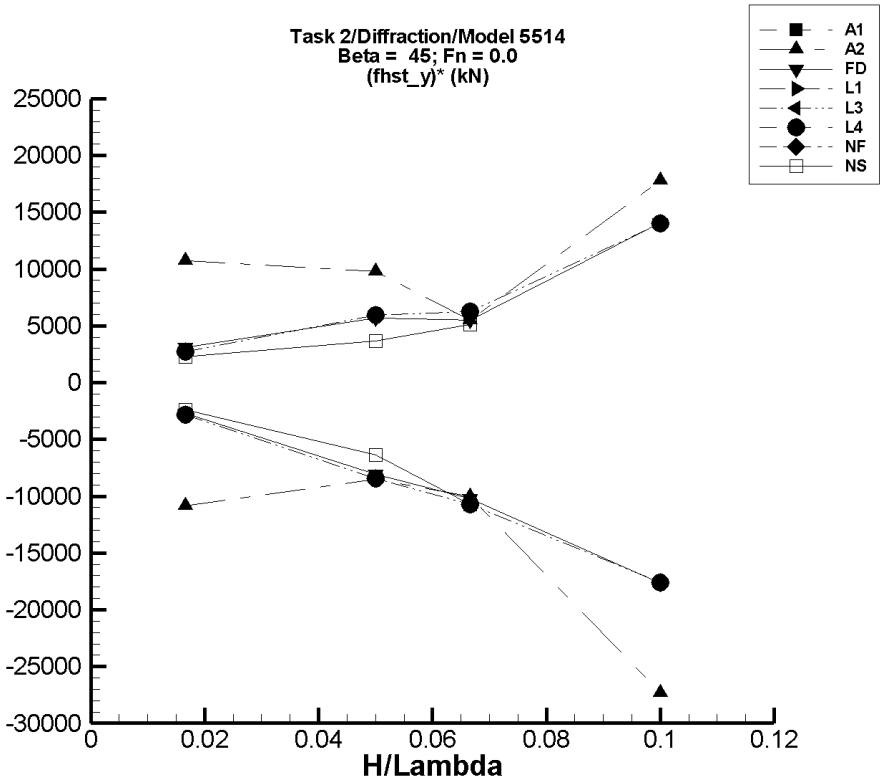

Figure R–75. Minimum and Maximum of $(F_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–593. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–594. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	1.35	-189.	184.	-180.	180.	-1.09E+04	1.07E+04
1/20	13.0	-456.	996.	-413.	503.	-8.52E+03	9.81E+03
1/15	35.3	-761.	2.07E+03	-634.	401.	-1.00E+04	5.49E+03
1/10	20.0	-8.11E+03	9.12E+03	-2.71E+03	1.80E+03	-2.73E+04	1.78E+04

Table R–595. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.143	-47.4	56.1	-45.4	51.3	-2.73E+03	3.07E+03
1/20	5.42	-425.	324.	-399.	291.	-8.09E+03	5.71E+03
1/15	2.87	-716.	445.	-676.	367.	-1.02E+04	5.46E+03
1/10	-40.2	-1.97E+03	1.47E+03	-1.81E+03	1.37E+03	-1.77E+04	1.41E+04

Table R–596. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–597. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.80E-02	-47.9	46.3	-47.4	45.5	-2.84E+03	2.73E+03
1/20	3.33	-425.	313.	-420.	300.	-8.48E+03	5.94E+03
1/15	-1.86	-739.	455.	-717.	413.	-1.07E+04	6.22E+03
1/10	-35.1	-1.89E+03	1.40E+03	-1.80E+03	1.37E+03	-1.76E+04	1.40E+04

Table R–598. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.80E-02	-47.9	46.3	-47.4	45.5	-2.84E+03	2.73E+03
1/20	3.33	-425.	313.	-420.	300.	-8.48E+03	5.94E+03
1/15	-1.86	-739.	455.	-717.	413.	-1.07E+04	6.22E+03
1/10	-35.1	-1.89E+03	1.40E+03	-1.80E+03	1.37E+03	-1.76E+04	1.40E+04

Table R–599. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–600. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.153	-41.3	39.7	-39.6	38.1	-2.37E+03	2.29E+03
1/20	-6.71	-325.	182.	-325.	175.	-6.36E+03	3.64E+03
1/15	-17.3	-737.	334.	-731.	326.	-1.07E+04	5.14E+03
1/10	—	—	—	—	—	—	—

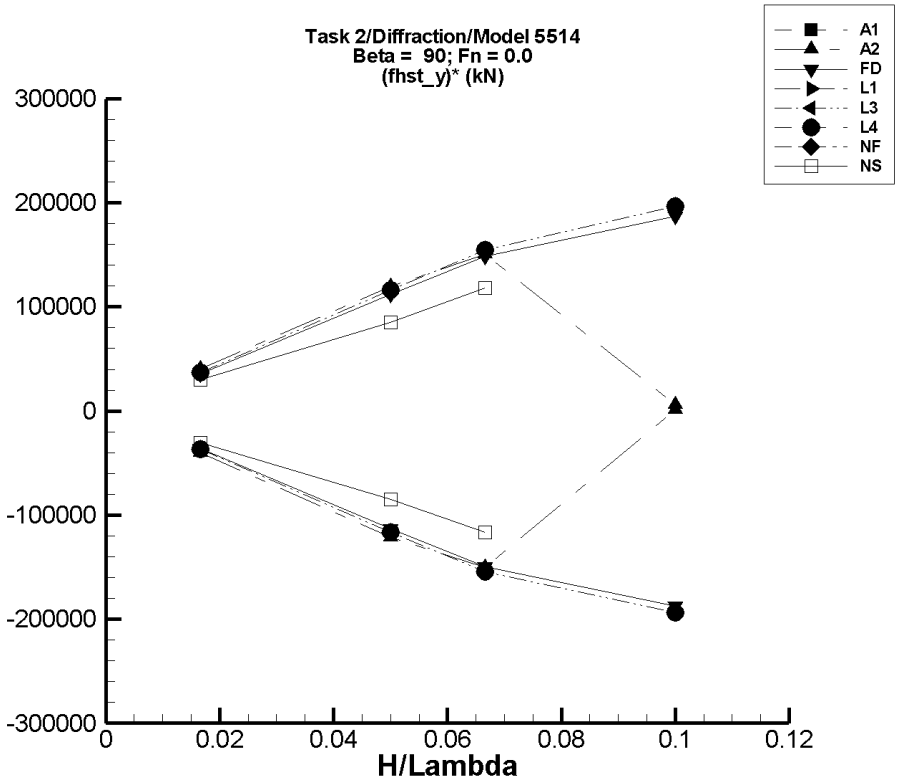

Figure R–76. Minimum and Maximum of $(F_y^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–601. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\text{hst}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–602. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\text{hst}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	1.11	-686.	738.	-666.	673.	-4.00E+04	4.03E+04
1/20	30.4	-6.34E+03	7.03E+03	-6.05E+03	5.99E+03	-1.22E+05	1.19E+05
1/15	-17.0	-1.06E+04	1.06E+04	-1.00E+04	1.00E+04	-1.50E+05	1.51E+05
1/10	-2.90E+03	-2.82E+03	-2.30E+03	-2.82E+03	-2.30E+03	827.	5.93E+03

Table R–603. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.258	-623.	623.	-597.	595.	-3.58E+04	3.57E+04
1/20	12.3	-5.88E+03	5.88E+03	-5.64E+03	5.62E+03	-1.13E+05	1.12E+05
1/15	23.9	-1.04E+04	1.04E+04	-9.93E+03	9.93E+03	-1.49E+05	1.49E+05
1/10	5.94	-2.02E+04	2.03E+04	-1.88E+04	1.87E+04	-1.88E+05	1.87E+05

Table R–604. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–605. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.309	-624.	624.	-614.	613.	-3.68E+04	3.68E+04
1/20	-1.87	-5.90E+03	5.90E+03	-5.81E+03	5.81E+03	-1.16E+05	1.16E+05
1/15	-10.1	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-1.54E+05	1.54E+05
1/10	-139.	-2.01E+04	2.01E+04	-1.95E+04	1.95E+04	-1.94E+05	1.96E+05

Table R–606. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.309	-624.	624.	-614.	613.	-3.68E+04	3.68E+04
1/20	-1.87	-5.90E+03	5.90E+03	-5.81E+03	5.81E+03	-1.16E+05	1.16E+05
1/15	-10.1	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-1.54E+05	1.54E+05
1/10	-139.	-2.01E+04	2.01E+04	-1.95E+04	1.95E+04	-1.94E+05	1.96E+05

Table R–607. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–608. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.353	-524.	526.	-505.	504.	-3.03E+04	3.03E+04
1/20	-12.0	-4.41E+03	4.44E+03	-4.25E+03	4.25E+03	-8.47E+04	8.53E+04
1/15	-34.7	-8.00E+03	8.05E+03	-7.81E+03	7.86E+03	-1.17E+05	1.18E+05
1/10	—	—	—	—	—	—	—

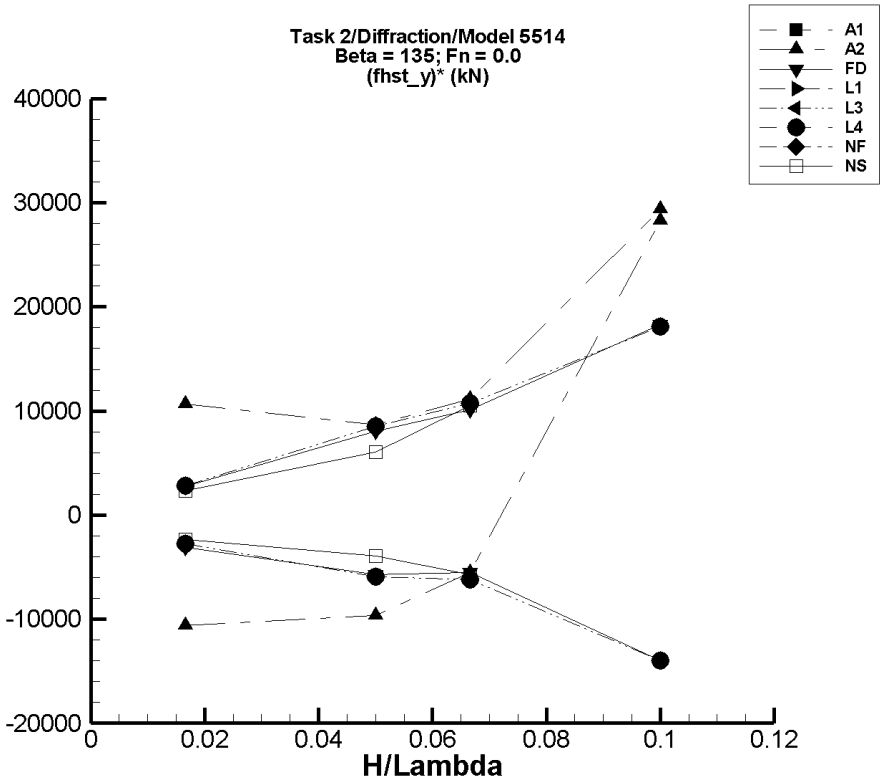

Figure R–77. Minimum and Maximum of $(F_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–609. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–610. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.819	-184.	255.	-176.	178.	-1.06E+04	1.06E+04
1/20	-20.3	-1.58E+03	454.	-502.	413.	-9.63E+03	8.67E+03
1/15	-1.30	-407.	765.	-369.	741.	-5.52E+03	1.11E+04
1/10	-3.48E+03	-653.	-541.	-653.	-541.	2.83E+04	2.94E+04

Table R–611. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.120	-56.3	47.4	-51.2	45.4	-3.08E+03	2.72E+03
1/20	-3.66	-325.	425.	-290.	399.	-5.73E+03	8.06E+03
1/15	2.94	-447.	718.	-366.	677.	-5.54E+03	1.01E+04
1/10	26.0	-1.47E+03	1.97E+03	-1.37E+03	1.86E+03	-1.40E+04	1.83E+04

Table R–612. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–613. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.06E-02	-46.4	47.9	-45.5	47.4	-2.73E+03	2.84E+03
1/20	-4.90	-312.	426.	-300.	421.	-5.91E+03	8.51E+03
1/15	2.13	-454.	740.	-413.	717.	-6.23E+03	1.07E+04
1/10	34.8	-1.40E+03	1.88E+03	-1.36E+03	1.84E+03	-1.40E+04	1.81E+04

Table R–614. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	5.06E-02	-46.4	47.9	-45.5	47.4	-2.73E+03	2.84E+03
1/20	-4.90	-312.	426.	-300.	421.	-5.91E+03	8.51E+03
1/15	2.13	-454.	740.	-413.	717.	-6.23E+03	1.07E+04
1/10	34.8	-1.40E+03	1.88E+03	-1.36E+03	1.84E+03	-1.40E+04	1.81E+04

Table R–615. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–616. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.186	-40.3	40.9	-38.7	39.2	-2.31E+03	2.36E+03
1/20	-6.76	-210.	309.	-204.	297.	-3.95E+03	6.07E+03
1/15	-18.0	-406.	698.	-398.	682.	-5.70E+03	1.05E+04
1/10	—	—	—	—	—	—	—

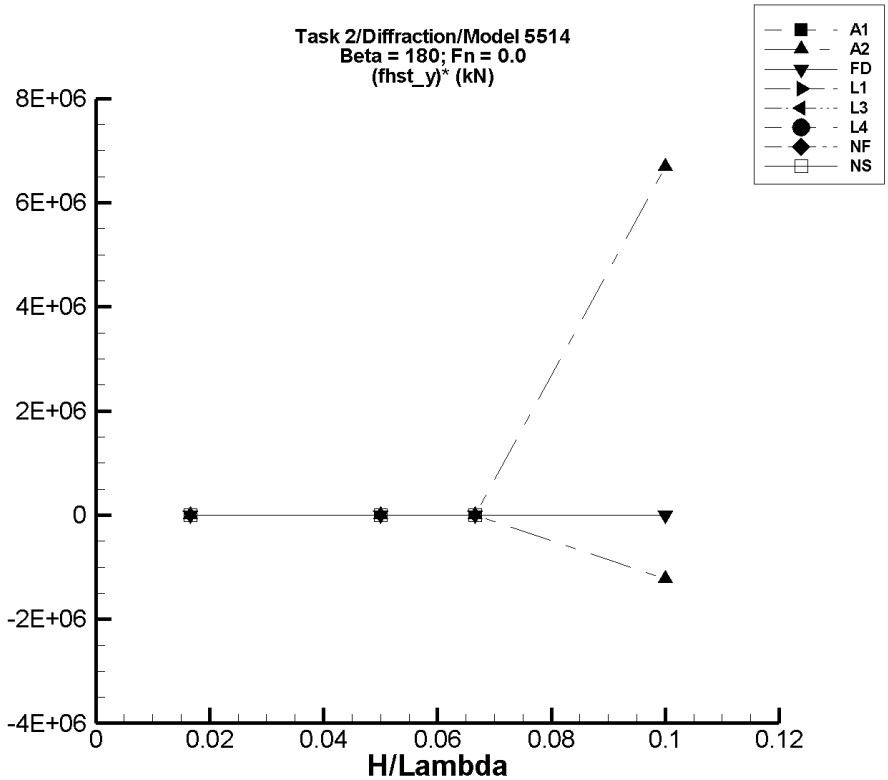

Figure R–78. Minimum and Maximum of $(F_y^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–617. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\text{hst}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–618. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{hst} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\text{hst}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-3.21E-06	-9.35E-04	5.39E-04	-7.41E-05	1.34E-04	-4.25E-03	8.23E-03
1/20	6.95	-1.22	1.18E+03	-13.5	157.	-408.	3.00E+03
1/15	10.9	-3.37E-02	759.	-8.85	126.	-296.	1.72E+03
1/10	6.02E+04	-1.32E+04	5.46E+06	-6.22E+04	7.29E+05	-1.22E+06	6.69E+06

Table R–619. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-1.79E-05	-7.24E-04	4.78E-04	-1.03E-04	3.79E-05	-5.08E-03	3.35E-03
1/20	-2.22E-04	-3.69E-03	6.93E-04	-8.06E-04	3.52E-04	-1.17E-02	1.15E-02
1/15	-3.44E-04	-8.06E-03	5.30E-03	-1.20E-03	3.27E-04	-1.28E-02	1.01E-02
1/10	-2.79E-04	-1.62E-02	9.01E-04	-2.35E-03	3.03E-04	-2.07E-02	5.82E-03

Table R–620. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–621. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–622. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–623. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–624. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-9.27E-05	-1.86E-03	1.68E-03	-6.06E-04	1.03E-03	-3.08E-02	6.74E-02
1/20	-2.67E-04	-2.66E-03	2.33E-03	-9.09E-04	4.92E-04	-1.28E-02	1.52E-02
1/15	-2.02E-05	-2.85E-03	3.26E-03	-9.01E-04	1.22E-03	-1.32E-02	1.87E-02
1/10	—	—	—	—	—	—	—

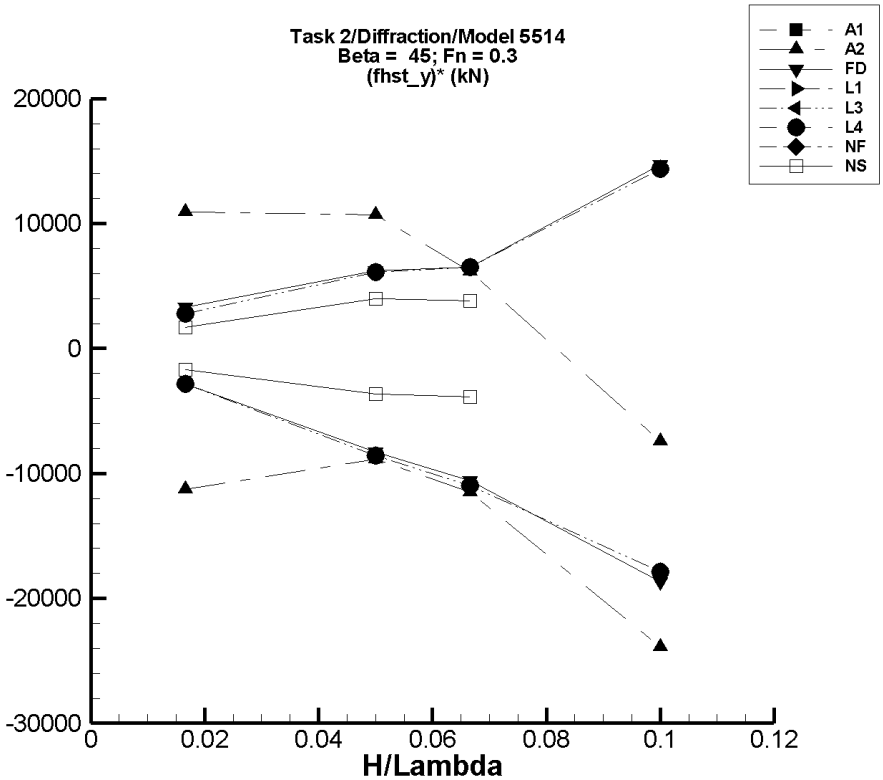

Figure R–79. Minimum and Maximum of $(F_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–625. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–626. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.649	-190.	184.	-187.	183.	-1.13E+04	1.09E+04
1/20	-0.163	-910.	1.58E+03	-443.	536.	-8.85E+03	1.07E+04
1/15	7.93	-781.	2.07E+03	-760.	418.	-1.15E+04	6.15E+03
1/10	2.28E+03	-140.	2.42E+03	-108.	1.53E+03	-2.39E+04	-7.45E+03

Table R–627. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-2.85E-02	-47.3	56.4	-47.1	54.9	-2.82E+03	3.29E+03
1/20	3.79	-426.	327.	-411.	314.	-8.29E+03	6.21E+03
1/15	-1.96	-723.	450.	-707.	430.	-1.06E+04	6.48E+03
1/10	-36.7	-1.97E+03	1.46E+03	-1.90E+03	1.44E+03	-1.86E+04	1.47E+04

Table R–628. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–629. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.55E-02	-47.9	46.3	-47.8	46.0	-2.87E+03	2.76E+03
1/20	5.66	-427.	312.	-423.	310.	-8.58E+03	6.08E+03
1/15	3.26	-741.	455.	-731.	439.	-1.10E+04	6.53E+03
1/10	-46.1	-1.89E+03	1.40E+03	-1.83E+03	1.39E+03	-1.79E+04	1.44E+04

Table R–630. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.55E-02	-47.9	46.3	-47.8	46.0	-2.87E+03	2.76E+03
1/20	5.66	-427.	312.	-423.	310.	-8.58E+03	6.08E+03
1/15	3.26	-741.	455.	-731.	439.	-1.10E+04	6.53E+03
1/10	-46.1	-1.89E+03	1.40E+03	-1.83E+03	1.39E+03	-1.79E+04	1.44E+04

Table R–631. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–632. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-3.44E-02	-29.5	29.8	-28.3	28.6	-1.70E+03	1.72E+03
1/20	-2.56	-190.	205.	-184.	196.	-3.62E+03	3.97E+03
1/15	-4.53	-264.	257.	-261.	251.	-3.85E+03	3.83E+03
1/10	—	—	—	—	—	—	—

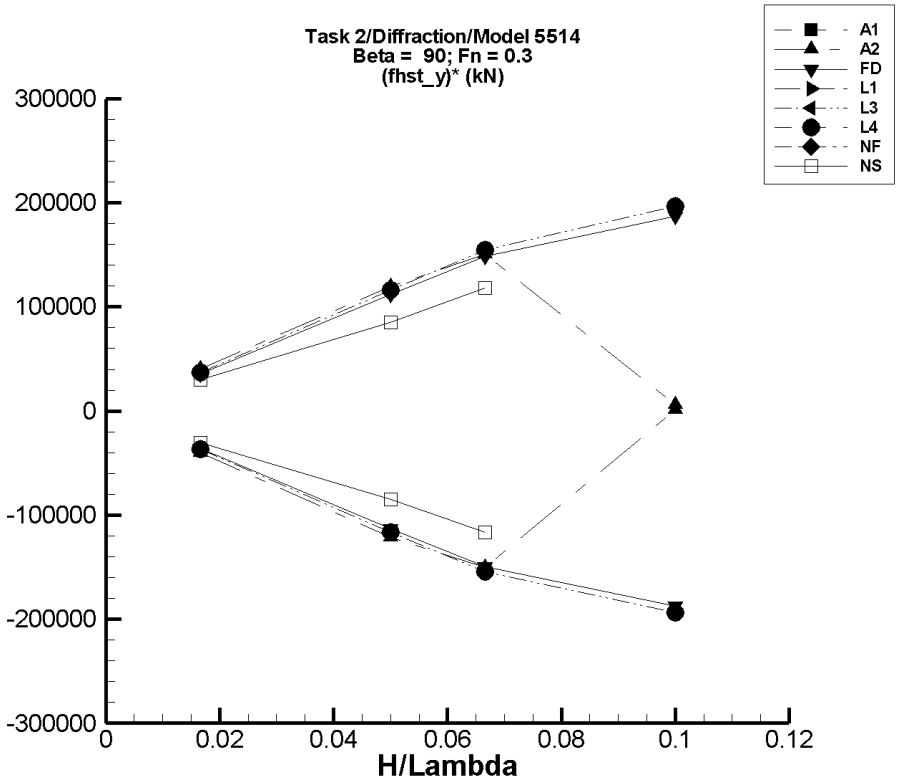

Figure R–80. Minimum and Maximum of $(F_y^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–633. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–634. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	1.11	-686.	738.	-666.	673.	-4.00E+04	4.03E+04
1/20	30.4	-6.34E+03	7.03E+03	-6.05E+03	5.99E+03	-1.22E+05	1.19E+05
1/15	-17.0	-1.06E+04	1.06E+04	-1.00E+04	1.00E+04	-1.50E+05	1.51E+05
1/10	-2.90E+03	-2.82E+03	-2.30E+03	-2.82E+03	-2.30E+03	827.	5.93E+03

Table R–635. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.259	-623.	623.	-597.	595.	-3.58E+04	3.57E+04
1/20	12.3	-5.88E+03	5.88E+03	-5.64E+03	5.62E+03	-1.13E+05	1.12E+05
1/15	23.9	-1.04E+04	1.04E+04	-9.93E+03	9.93E+03	-1.49E+05	1.49E+05
1/10	5.95	-2.02E+04	2.03E+04	-1.88E+04	1.87E+04	-1.88E+05	1.87E+05

Table R–636. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–637. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.305	-624.	624.	-614.	613.	-3.68E+04	3.68E+04
1/20	-1.87	-5.90E+03	5.90E+03	-5.81E+03	5.81E+03	-1.16E+05	1.16E+05
1/15	-10.1	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-1.54E+05	1.54E+05
1/10	-139.	-2.01E+04	2.01E+04	-1.95E+04	1.95E+04	-1.94E+05	1.96E+05

Table R–638. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.305	-624.	624.	-614.	613.	-3.68E+04	3.68E+04
1/20	-1.87	-5.90E+03	5.90E+03	-5.81E+03	5.81E+03	-1.16E+05	1.16E+05
1/15	-10.1	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-1.54E+05	1.54E+05
1/10	-139.	-2.01E+04	2.01E+04	-1.95E+04	1.95E+04	-1.94E+05	1.96E+05

Table R–639. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–640. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.362	-524.	525.	-505.	504.	-3.03E+04	3.03E+04
1/20	-12.2	-4.41E+03	4.43E+03	-4.25E+03	4.26E+03	-8.47E+04	8.54E+04
1/15	-34.7	-8.00E+03	8.05E+03	-7.81E+03	7.86E+03	-1.17E+05	1.18E+05
1/10	—	—	—	—	—	—	—

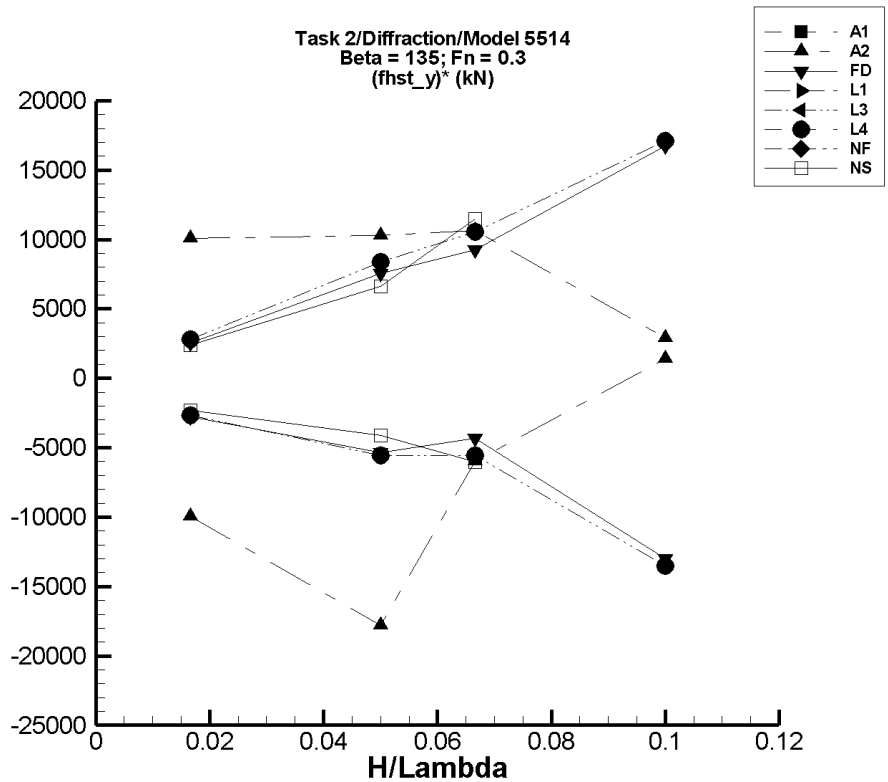

Figure R–81. Minimum and Maximum of $(F_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–641. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
$\boldsymbol{H/\lambda}$	$\langle \boldsymbol{F_y^{\text{hst}}} \rangle$ **Mean (kN)**	**Unfiltered** $\boldsymbol{F_y^{\text{hst}}}$ **Min. (kN)**	**Max. (kN)**	**Filtered** $\boldsymbol{F_y^{\text{hst}}}$ **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(\boldsymbol{F_y^{\text{hst}}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–642. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
$\boldsymbol{H/\lambda}$	$\langle \boldsymbol{F_y^{\text{hst}}} \rangle$ **Mean (kN)**	**Unfiltered** $\boldsymbol{F_y^{\text{hst}}}$ **Min. (kN)**	**Max. (kN)**	**Filtered** $\boldsymbol{F_y^{\text{hst}}}$ **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(\boldsymbol{F_y^{\text{hst}}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-0.124	-184.	189.	-166.	168.	-9.96E+03	1.01E+04
1/20	-157.	-6.88E+03	454.	-1.05E+03	356.	-1.78E+04	1.03E+04
1/15	30.6	-403.	2.11E+03	-368.	741.	-5.98E+03	1.07E+04
1/10	-729.	-587.	-441.	-587.	-441.	1.42E+03	2.88E+03

Table R–643. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	0.158	-56.4	47.3	-46.0	42.7	-2.77E+03	2.55E+03
1/20	0.464	-319.	425.	-266.	377.	-5.34E+03	7.53E+03
1/15	5.51	-440.	716.	-282.	621.	-4.32E+03	9.23E+03
1/10	42.0	-1.44E+03	1.94E+03	-1.26E+03	1.72E+03	-1.30E+04	1.68E+04

Table R–644. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–645. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.35E-02	-46.0	47.9	-44.4	46.7	-2.66E+03	2.80E+03
1/20	-5.52	-313.	427.	-283.	413.	-5.55E+03	8.36E+03
1/15	-4.89	-451.	737.	-374.	697.	-5.54E+03	1.05E+04
1/10	31.7	-1.39E+03	1.88E+03	-1.32E+03	1.74E+03	-1.35E+04	1.71E+04

Table R–646. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{hst}} \rangle$	Unfiltered F_y^{hst}		Filtered F_y^{hst}		Filtered $\left(F_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.35E-02	-46.0	47.9	-44.4	46.7	-2.66E+03	2.80E+03
1/20	-5.52	-313.	427.	-283.	413.	-5.55E+03	8.36E+03
1/15	-4.89	-451.	737.	-374.	697.	-5.54E+03	1.05E+04
1/10	31.7	-1.39E+03	1.88E+03	-1.32E+03	1.74E+03	-1.35E+04	1.71E+04

Table R–647. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–648. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-0.207	-40.6	41.5	-39.1	39.8	-2.33E+03	2.40E+03
1/20	-7.46	-222.	336.	-215.	323.	-4.14E+03	6.60E+03
1/15	-19.4	-430.	762.	-422.	745.	-6.04E+03	1.15E+04
1/10	—	—	—	—	—	—	—

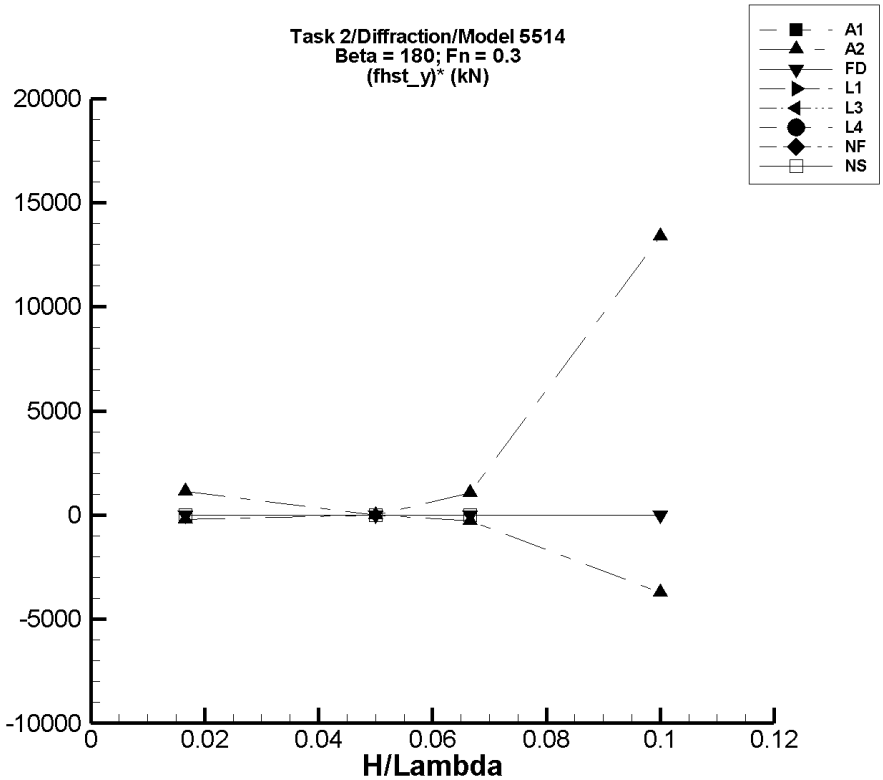

Figure R–82. Minimum and Maximum of $(F_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–649. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–650. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	1.91	-5.26E-04	157.	-1.79	20.9	-222.	1.14E+03
1/20	-5.13E-04	-1.33E-02	2.35E-02	-2.33E-03	1.63E-03	-3.63E-02	4.28E-02
1/15	11.4	-2.50	615.	-7.02	81.6	-276.	1.05E+03
1/10	313.	-1.59E+03	1.27E+04	-58.7	1.65E+03	-3.72E+03	1.34E+04

Table R–651. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	3.16E-04	-1.76E-03	2.87E-03	-5.24E-04	1.94E-03	-5.04E-02	9.72E-02
1/20	4.30E-06	-8.83E-03	1.14E-02	-3.22E-03	3.97E-03	-6.44E-02	7.93E-02
1/15	4.40E-05	-2.52E-02	2.18E-02	-5.64E-03	6.15E-03	-8.53E-02	9.17E-02
1/10	3.36E-03	-3.21E-02	5.15E-02	-6.41E-03	1.66E-02	-9.78E-02	0.133

Table R–652. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–653. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–654. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–655. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–656. Minimum and Maximum of F_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_y^{hst} Min. (kN)	Unfiltered F_y^{hst} Max. (kN)	Filtered F_y^{hst} Min. (kN)	Filtered F_y^{hst} Max. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{hst}}\right)^*$ Max. (kN)
1/60	-4.64E-05	-1.62E-03	1.64E-03	-7.11E-04	5.83E-04	-3.99E-02	3.78E-02
1/20	-1.76E-04	-2.66E-03	2.64E-03	-9.86E-04	7.01E-04	-1.62E-02	1.75E-02
1/15	-6.77E-05	-3.47E-03	3.92E-03	-1.31E-03	1.01E-03	-1.86E-02	1.61E-02
1/10	—	—	—	—	—	—	—

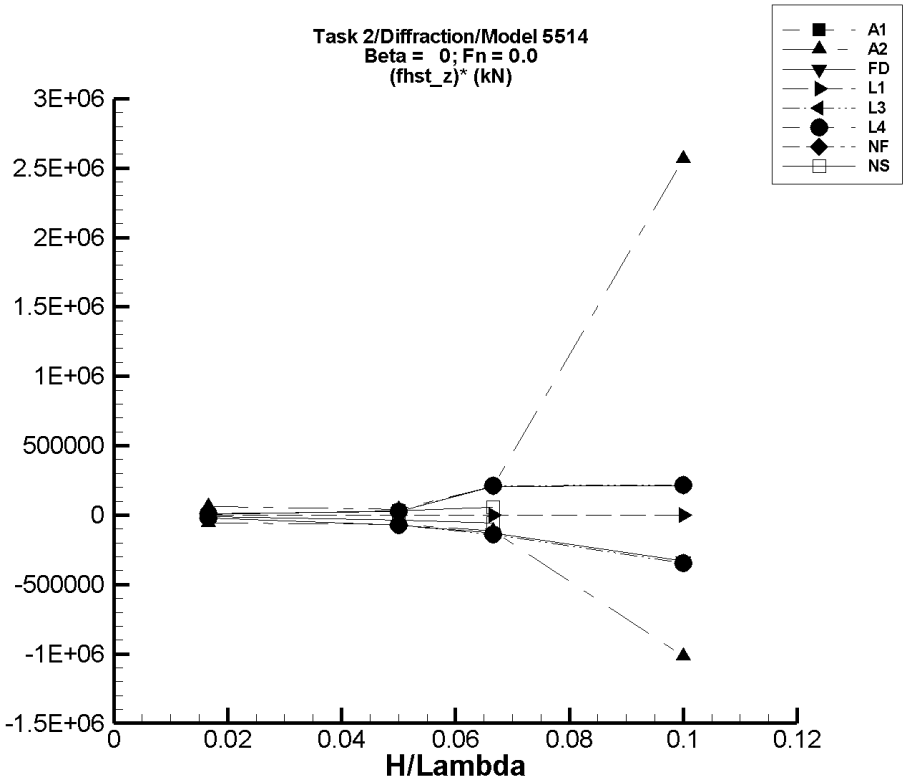

Figure R–83. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–657. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–658. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.02E+04	9.23E+04	9.03E+04	9.23E+04	-5.95E+04	6.09E+04
1/20	8.62E+04	8.27E+04	8.83E+04	8.28E+04	8.82E+04	-6.85E+04	3.88E+04
1/15	8.49E+04	7.62E+04	9.98E+04	7.72E+04	9.87E+04	-1.15E+05	2.07E+05
1/10	1.02E+05	1.30E+04	2.34E+06	655.	3.59E+05	-1.02E+06	2.56E+06

Table R–659. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.17E+04	9.12E+04	9.17E+04	-2.13E+04	7.54E+03
1/20	8.71E+04	8.34E+04	8.84E+04	8.35E+04	8.84E+04	-7.30E+04	2.54E+04
1/15	8.65E+04	7.72E+04	1.03E+05	7.78E+04	1.00E+05	-1.30E+05	2.08E+05
1/10	8.87E+04	5.36E+04	1.17E+05	5.56E+04	1.10E+05	-3.32E+05	2.10E+05

Table R–660. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	17.8	17.8
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	5.94	5.94
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	4.45	4.45
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	2.97	2.97

Table R–661. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.25E+04	7.47E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.33E+04	8.82E+04	-7.38E+04	2.37E+04
1/15	8.64E+04	7.69E+04	1.02E+05	7.72E+04	1.00E+05	-1.38E+05	2.12E+05
1/10	8.84E+04	5.31E+04	1.13E+05	5.38E+04	1.10E+05	-3.46E+05	2.16E+05

Table R–662. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.25E+04	7.47E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.33E+04	8.82E+04	-7.38E+04	2.37E+04
1/15	8.64E+04	7.69E+04	1.02E+05	7.72E+04	1.00E+05	-1.38E+05	2.12E+05
1/10	8.84E+04	5.31E+04	1.13E+05	5.38E+04	1.10E+05	-3.46E+05	2.16E+05

Table R–663. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–664. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.14E+04	9.17E+04	9.14E+04	9.17E+04	-1.15E+04	6.10E+03
1/20	8.51E+04	8.33E+04	8.67E+04	8.33E+04	8.67E+04	-3.45E+04	3.19E+04
1/15	8.12E+04	7.72E+04	8.51E+04	7.73E+04	8.51E+04	-5.92E+04	5.83E+04
1/10	—	—	—	—	—	—	—

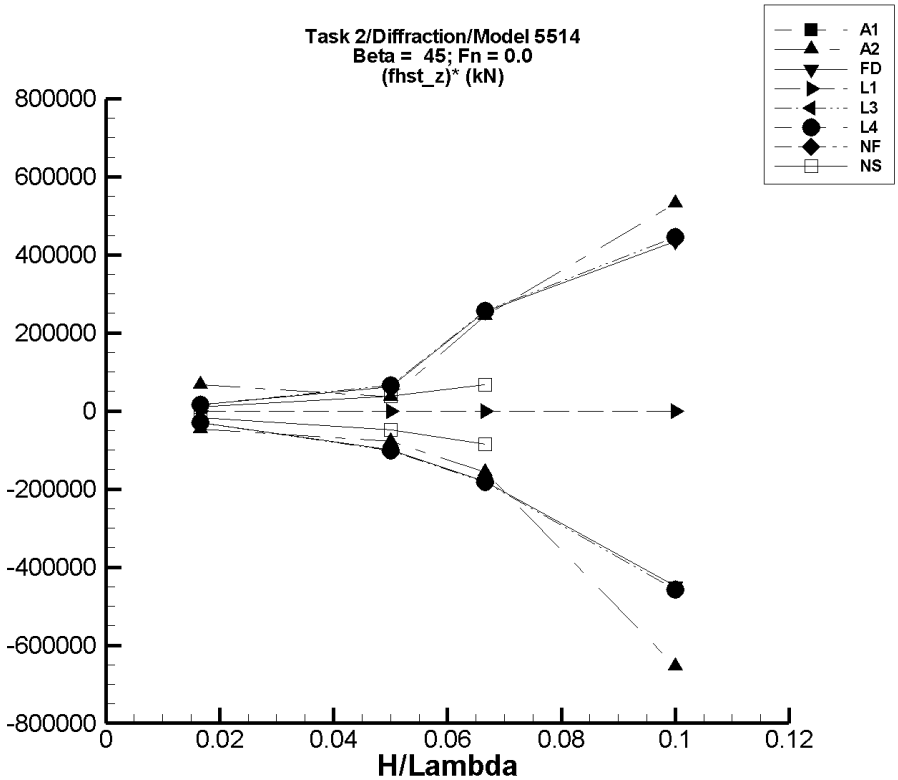

Figure R–84. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–665. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–666. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.04E+04	9.24E+04	9.05E+04	9.24E+04	-4.58E+04	6.73E+04
1/20	8.63E+04	8.22E+04	8.81E+04	8.23E+04	8.80E+04	-7.84E+04	3.56E+04
1/15	8.53E+04	7.45E+04	1.02E+05	7.49E+04	1.02E+05	-1.57E+05	2.44E+05
1/10	8.44E+04	7.78E+03	1.80E+05	1.91E+04	1.38E+05	-6.53E+05	5.32E+05

Table R–667. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.11E+04	9.18E+04	9.11E+04	9.18E+04	-2.95E+04	1.51E+04
1/20	8.72E+04	8.20E+04	9.04E+04	8.22E+04	9.03E+04	-1.00E+05	6.24E+04
1/15	8.67E+04	7.44E+04	1.04E+05	7.48E+04	1.04E+05	-1.80E+05	2.55E+05
1/10	8.87E+04	4.25E+04	1.34E+05	4.38E+04	1.32E+05	-4.49E+05	4.34E+05

Table R–668. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	16.4	16.4
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	5.47	5.47
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	4.10	4.10
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	2.73	2.73

Table R–669. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.09E+04	1.57E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.03E+04	-1.02E+05	6.57E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.43E+04	1.03E+05	-1.82E+05	2.55E+05
1/10	8.85E+04	4.20E+04	1.38E+05	4.28E+04	1.33E+05	-4.57E+05	4.46E+05

Table R–670. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.09E+04	1.57E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.03E+04	-1.02E+05	6.57E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.43E+04	1.03E+05	-1.82E+05	2.55E+05
1/10	8.85E+04	4.20E+04	1.38E+05	4.28E+04	1.33E+05	-4.57E+05	4.46E+05

Table R–671. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–672. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.13E+04	9.18E+04	9.13E+04	9.18E+04	-1.73E+04	1.06E+04
1/20	8.54E+04	8.29E+04	8.74E+04	8.30E+04	8.73E+04	-4.91E+04	3.82E+04
1/15	8.20E+04	7.61E+04	8.65E+04	7.63E+04	8.65E+04	-8.57E+04	6.76E+04
1/10	—	—	—	—	—	—	—

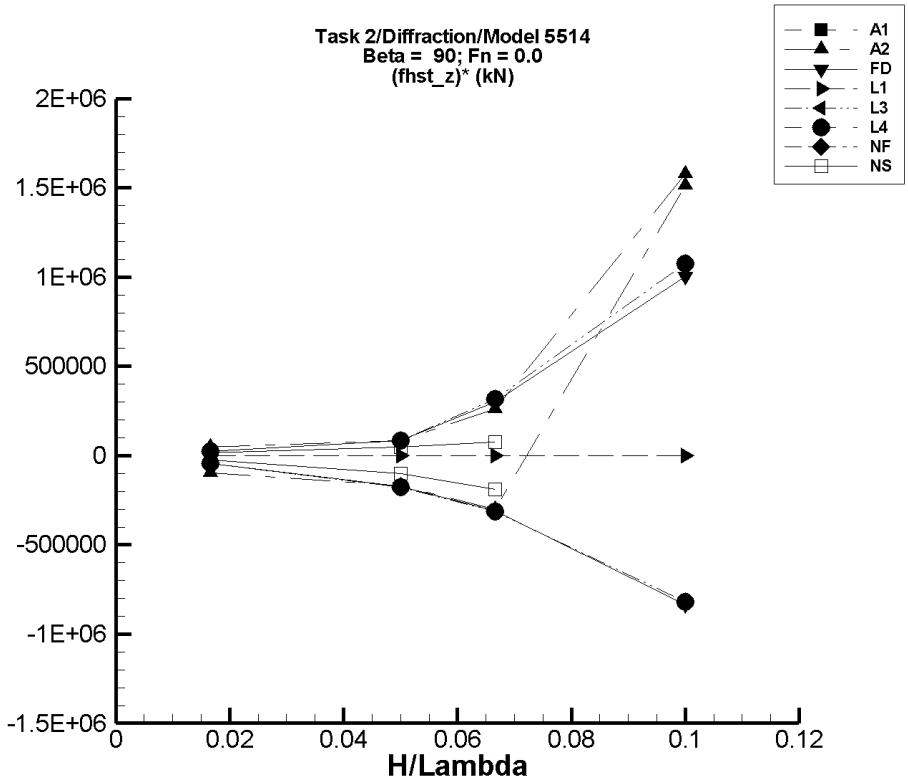

Figure R–85. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–673. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–674. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	8.96E+04	9.21E+04	8.96E+04	9.20E+04	-9.80E+04	4.64E+04
1/20	8.63E+04	7.77E+04	9.07E+04	7.79E+04	9.05E+04	-1.68E+05	8.40E+04
1/15	8.50E+04	6.40E+04	1.05E+05	6.47E+04	1.02E+05	-3.03E+05	2.60E+05
1/10	3.64E+04	1.88E+05	1.94E+05	1.88E+05	1.94E+05	1.51E+06	1.58E+06

Table R–675. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.08E+04	9.19E+04	9.08E+04	9.19E+04	-4.41E+04	2.20E+04
1/20	8.71E+04	7.81E+04	9.14E+04	7.84E+04	9.13E+04	-1.74E+05	8.47E+04
1/15	8.62E+04	6.48E+04	1.08E+05	6.54E+04	1.06E+05	-3.11E+05	3.01E+05
1/10	8.71E+04	4.67E+03	1.97E+05	3.69E+03	1.88E+05	-8.34E+05	1.00E+06

Table R–676. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	21.1	21.1
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	7.03	7.03
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	5.27	5.27
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	3.52	3.52

Table R–677. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.06E+04	9.17E+04	9.06E+04	9.17E+04	-4.59E+04	2.32E+04
1/20	8.69E+04	7.80E+04	9.11E+04	7.81E+04	9.11E+04	-1.77E+05	8.49E+04
1/15	8.60E+04	6.47E+04	1.08E+05	6.49E+04	1.07E+05	-3.15E+05	3.16E+05
1/10	8.63E+04	4.57E+03	2.05E+05	4.44E+03	1.94E+05	-8.19E+05	1.08E+06

Table R–678. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.06E+04	9.17E+04	9.06E+04	9.17E+04	-4.59E+04	2.32E+04
1/20	8.69E+04	7.80E+04	9.11E+04	7.81E+04	9.11E+04	-1.77E+05	8.49E+04
1/15	8.60E+04	6.47E+04	1.08E+05	6.49E+04	1.07E+05	-3.15E+05	3.16E+05
1/10	8.63E+04	4.57E+03	2.05E+05	4.44E+03	1.94E+05	-8.19E+05	1.08E+06

Table R–679. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–680. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.19E+04	9.12E+04	9.19E+04	-2.36E+04	1.46E+04
1/20	8.57E+04	8.05E+04	8.81E+04	8.08E+04	8.81E+04	-9.92E+04	4.70E+04
1/15	8.25E+04	6.95E+04	8.77E+04	6.98E+04	8.77E+04	-1.91E+05	7.66E+04
1/10	—	—	—	—	—	—	—

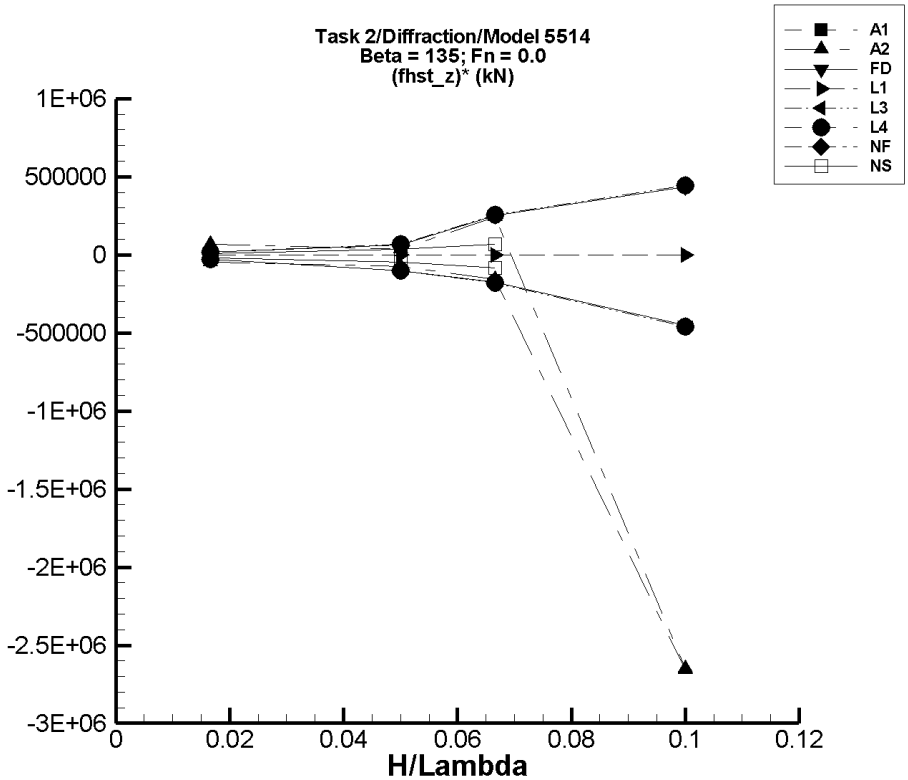

Figure R–86. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–681. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–682. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.04E+04	9.24E+04	9.05E+04	9.24E+04	-4.58E+04	6.64E+04
1/20	8.63E+04	8.22E+04	8.81E+04	8.26E+04	8.80E+04	-7.51E+04	3.46E+04
1/15	8.54E+04	7.46E+04	1.02E+05	7.48E+04	1.01E+05	-1.59E+05	2.40E+05
1/10	3.06E+05	3.98E+04	4.10E+04	3.98E+04	4.10E+04	-2.66E+06	-2.65E+06

Table R–683. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.11E+04	9.18E+04	9.11E+04	9.18E+04	-2.92E+04	1.52E+04
1/20	8.72E+04	8.20E+04	9.04E+04	8.22E+04	9.03E+04	-1.00E+05	6.26E+04
1/15	8.66E+04	7.44E+04	1.04E+05	7.48E+04	1.03E+05	-1.77E+05	2.50E+05
1/10	8.88E+04	4.24E+04	1.34E+05	4.38E+04	1.32E+05	-4.50E+05	4.33E+05

Table R–684. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	19.7	19.7
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	6.56	6.56
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	4.92	4.92
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	3.28	3.28

Table R–685. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.08E+04	1.58E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.03E+04	-1.03E+05	6.54E+04
1/15	8.64E+04	7.42E+04	1.04E+05	7.43E+04	1.03E+05	-1.82E+05	2.55E+05
1/10	8.86E+04	4.21E+04	1.37E+05	4.28E+04	1.33E+05	-4.58E+05	4.42E+05

Table R–686. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.08E+04	1.58E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.03E+04	-1.03E+05	6.54E+04
1/15	8.64E+04	7.42E+04	1.04E+05	7.43E+04	1.03E+05	-1.82E+05	2.55E+05
1/10	8.86E+04	4.21E+04	1.37E+05	4.28E+04	1.33E+05	-4.58E+05	4.42E+05

Table R–687. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–688. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.13E+04	9.18E+04	9.13E+04	9.18E+04	-1.74E+04	1.03E+04
1/20	8.54E+04	8.29E+04	8.74E+04	8.30E+04	8.73E+04	-4.91E+04	3.78E+04
1/15	8.20E+04	7.61E+04	8.65E+04	7.63E+04	8.64E+04	-8.58E+04	6.68E+04
1/10	—	—	—	—	—	—	—

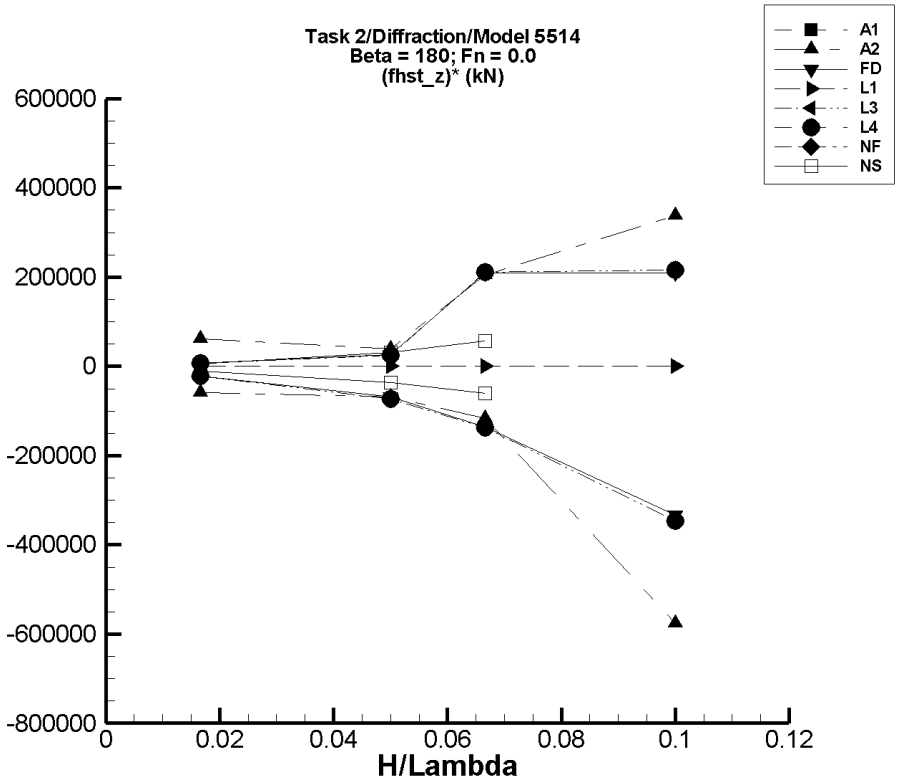

Figure R–87. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–689. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–690. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.13E+04	9.02E+04	9.23E+04	9.03E+04	9.23E+04	-5.94E+04	6.10E+04
1/20	8.63E+04	8.27E+04	8.83E+04	8.28E+04	8.82E+04	-6.92E+04	3.84E+04
1/15	8.50E+04	7.62E+04	9.98E+04	7.72E+04	9.87E+04	-1.17E+05	2.04E+05
1/10	7.26E+04	-2.26E+05	1.12E+05	1.50E+04	1.06E+05	-5.76E+05	3.38E+05

Table R–691. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.17E+04	9.12E+04	9.17E+04	-2.15E+04	7.30E+03
1/20	8.71E+04	8.34E+04	8.84E+04	8.36E+04	8.84E+04	-6.90E+04	2.57E+04
1/15	8.64E+04	7.71E+04	1.03E+05	7.73E+04	1.00E+05	-1.37E+05	2.09E+05
1/10	8.89E+04	5.36E+04	1.13E+05	5.56E+04	1.10E+05	-3.33E+05	2.09E+05

Table R–692. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	17.8	17.8
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	5.94	5.94
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	4.45	4.45
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	2.97	2.97

Table R–693. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.26E+04	7.29E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.33E+04	8.82E+04	-7.35E+04	2.42E+04
1/15	8.63E+04	7.69E+04	1.02E+05	7.72E+04	1.00E+05	-1.38E+05	2.11E+05
1/10	8.84E+04	5.29E+04	1.13E+05	5.38E+04	1.10E+05	-3.46E+05	2.16E+05

Table R–694. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.26E+04	7.29E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.33E+04	8.82E+04	-7.35E+04	2.42E+04
1/15	8.63E+04	7.69E+04	1.02E+05	7.72E+04	1.00E+05	-1.38E+05	2.11E+05
1/10	8.84E+04	5.29E+04	1.13E+05	5.38E+04	1.10E+05	-3.46E+05	2.16E+05

Table R–695. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–696. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.14E+04	9.17E+04	9.14E+04	9.17E+04	-1.14E+04	6.18E+03
1/20	8.51E+04	8.33E+04	8.67E+04	8.33E+04	8.66E+04	-3.59E+04	3.11E+04
1/15	8.12E+04	7.72E+04	8.51E+04	7.72E+04	8.50E+04	-6.09E+04	5.70E+04
1/10	—	—	—	—	—	—	—

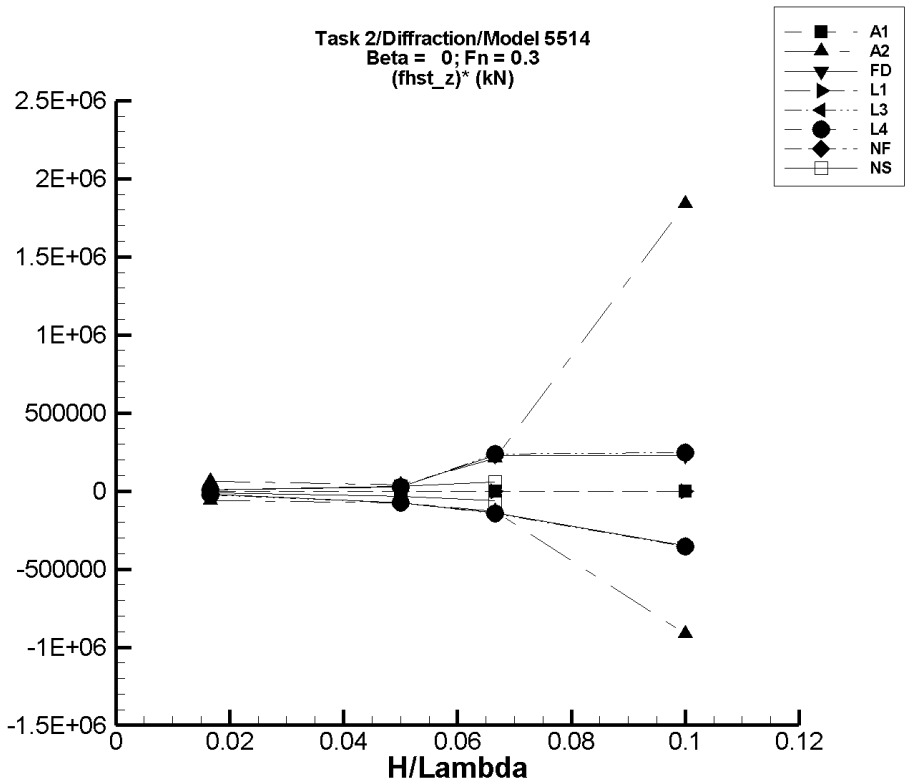

Figure R–88. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–697. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	7.03	7.03
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	2.34	2.34
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	1.76	1.76
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	1.17	1.17

Table R–698. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.02E+04	9.23E+04	9.02E+04	9.23E+04	-6.13E+04	6.27E+04
1/20	8.63E+04	8.27E+04	8.83E+04	8.26E+04	8.83E+04	-7.33E+04	3.96E+04
1/15	8.50E+04	7.55E+04	9.99E+04	7.64E+04	9.91E+04	-1.30E+05	2.11E+05
1/10	7.99E+04	-7.17E+05	2.75E+06	-1.17E+04	2.64E+05	-9.15E+05	1.84E+06

Table R–699. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.17E+04	9.12E+04	9.17E+04	-2.24E+04	7.49E+03
1/20	8.71E+04	8.34E+04	8.84E+04	8.34E+04	8.84E+04	-7.44E+04	2.54E+04
1/15	8.64E+04	7.71E+04	1.03E+05	7.72E+04	1.02E+05	-1.39E+05	2.27E+05
1/10	8.90E+04	5.36E+04	1.19E+05	5.38E+04	1.12E+05	-3.53E+05	2.28E+05

Table R–700. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	44.5	44.5
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	14.8	14.8
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	11.1	11.1
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	7.42	7.42

Table R–701. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.30E+04	7.28E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.32E+04	8.82E+04	-7.51E+04	2.39E+04
1/15	8.64E+04	7.69E+04	1.02E+05	7.69E+04	1.02E+05	-1.42E+05	2.37E+05
1/10	8.85E+04	5.29E+04	1.14E+05	5.31E+04	1.13E+05	-3.53E+05	2.48E+05

Table R–702. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.30E+04	7.28E+03
1/20	8.70E+04	8.32E+04	8.82E+04	8.32E+04	8.82E+04	-7.51E+04	2.39E+04
1/15	8.64E+04	7.69E+04	1.02E+05	7.69E+04	1.02E+05	-1.42E+05	2.37E+05
1/10	8.85E+04	5.29E+04	1.14E+05	5.31E+04	1.13E+05	-3.53E+05	2.48E+05

Table R–703. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–704. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.14E+04	9.17E+04	9.14E+04	9.17E+04	-1.15E+04	6.10E+03
1/20	8.51E+04	8.33E+04	8.67E+04	8.33E+04	8.67E+04	-3.46E+04	3.19E+04
1/15	8.12E+04	7.72E+04	8.51E+04	7.73E+04	8.51E+04	-5.92E+04	5.83E+04
1/10	—	—	—	—	—	—	—

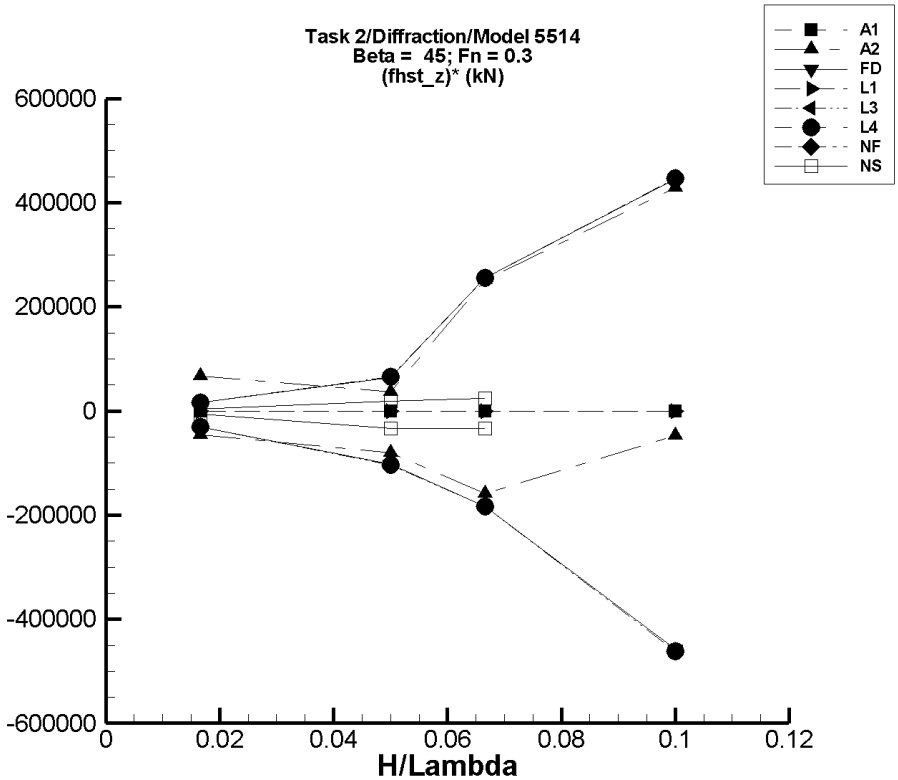

Figure R–89. Minimum and Maximum of $(F_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–705. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-7.03	-7.03
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-2.34	-2.34
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-1.76	-1.76
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-1.17	-1.17

Table R–706. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.04E+04	9.24E+04	9.05E+04	9.24E+04	-4.61E+04	6.70E+04
1/20	8.63E+04	8.16E+04	8.81E+04	8.23E+04	8.81E+04	-8.01E+04	3.64E+04
1/15	8.52E+04	7.45E+04	1.02E+05	7.46E+04	1.02E+05	-1.58E+05	2.51E+05
1/10	5.00E+04	4.35E+04	9.24E+04	4.53E+04	9.30E+04	-4.78E+04	4.30E+05

Table R–707. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.11E+04	9.18E+04	9.11E+04	9.18E+04	-3.06E+04	1.55E+04
1/20	8.72E+04	8.20E+04	9.04E+04	8.20E+04	9.04E+04	-1.03E+05	6.46E+04
1/15	8.67E+04	7.44E+04	1.04E+05	7.45E+04	1.04E+05	-1.83E+05	2.56E+05
1/10	8.87E+04	4.21E+04	1.34E+05	4.30E+04	1.33E+05	-4.57E+05	4.45E+05

Table R–708. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	-9.37	-9.37
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	-3.12	-3.12
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	-2.34	-2.34
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	-1.56	-1.56

Table R–709. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.13E+04	1.59E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.18E+04	9.03E+04	-1.04E+05	6.59E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.42E+04	1.04E+05	-1.84E+05	2.56E+05
1/10	8.85E+04	4.20E+04	1.38E+05	4.23E+04	1.33E+05	-4.62E+05	4.47E+05

Table R–710. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.13E+04	1.59E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.18E+04	9.03E+04	-1.04E+05	6.59E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.42E+04	1.04E+05	-1.84E+05	2.56E+05
1/10	8.85E+04	4.20E+04	1.38E+05	4.23E+04	1.33E+05	-4.62E+05	4.47E+05

Table R–711. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–712. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.18E+04	9.17E+04	9.19E+04	9.17E+04	9.19E+04	-5.94E+03	4.23E+03
1/20	8.92E+04	8.74E+04	9.01E+04	8.75E+04	9.01E+04	-3.31E+04	1.89E+04
1/15	8.60E+04	8.37E+04	8.76E+04	8.38E+04	8.76E+04	-3.30E+04	2.42E+04
1/10	—	—	—	—	—	—	—

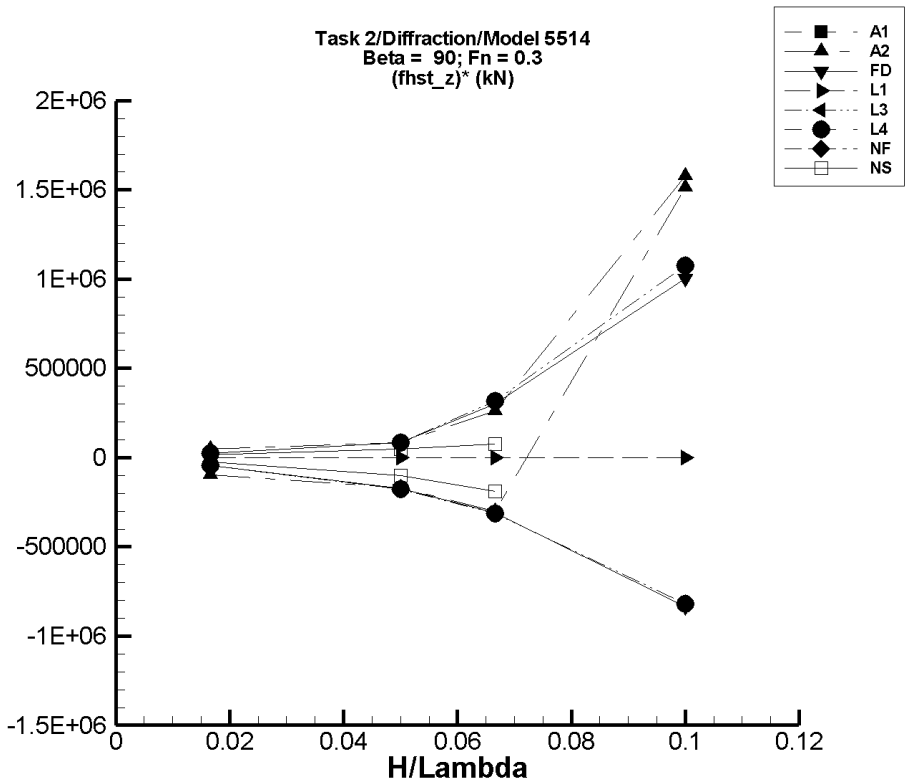

Figure R–90. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–713. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	—	—

Table R–714. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	8.96E+04	9.21E+04	8.96E+04	9.20E+04	-9.80E+04	4.64E+04
1/20	8.63E+04	7.77E+04	9.07E+04	7.79E+04	9.05E+04	-1.68E+05	8.40E+04
1/15	8.50E+04	6.40E+04	1.05E+05	6.47E+04	1.02E+05	-3.03E+05	2.60E+05
1/10	3.64E+04	1.88E+05	1.94E+05	1.88E+05	1.94E+05	1.51E+06	1.58E+06

Table R–715. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.08E+04	9.19E+04	9.08E+04	9.19E+04	-4.41E+04	2.20E+04
1/20	8.71E+04	7.81E+04	9.14E+04	7.84E+04	9.13E+04	-1.74E+05	8.47E+04
1/15	8.62E+04	6.48E+04	1.08E+05	6.54E+04	1.06E+05	-3.11E+05	3.01E+05
1/10	8.71E+04	4.67E+03	1.97E+05	3.69E+03	1.88E+05	-8.34E+05	1.00E+06

Table R–716. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	21.1	21.1
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	7.03	7.03
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	5.27	5.27
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	3.52	3.52

Table R–717. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.06E+04	9.17E+04	9.06E+04	9.17E+04	-4.59E+04	2.32E+04
1/20	8.69E+04	7.80E+04	9.11E+04	7.81E+04	9.11E+04	-1.77E+05	8.49E+04
1/15	8.60E+04	6.47E+04	1.08E+05	6.49E+04	1.07E+05	-3.15E+05	3.16E+05
1/10	8.63E+04	4.57E+03	2.05E+05	4.44E+03	1.94E+05	-8.19E+05	1.08E+06

Table R–718. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.06E+04	9.17E+04	9.06E+04	9.17E+04	-4.59E+04	2.32E+04
1/20	8.69E+04	7.80E+04	9.11E+04	7.81E+04	9.11E+04	-1.77E+05	8.49E+04
1/15	8.60E+04	6.47E+04	1.08E+05	6.49E+04	1.07E+05	-3.15E+05	3.16E+05
1/10	8.63E+04	4.57E+03	2.05E+05	4.44E+03	1.94E+05	-8.19E+05	1.08E+06

Table R–719. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–720. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.19E+04	9.12E+04	9.19E+04	-2.37E+04	1.46E+04
1/20	8.57E+04	8.05E+04	8.81E+04	8.07E+04	8.81E+04	-9.93E+04	4.70E+04
1/15	8.25E+04	6.95E+04	8.77E+04	6.98E+04	8.77E+04	-1.91E+05	7.66E+04
1/10	—	—	—	—	—	—	—

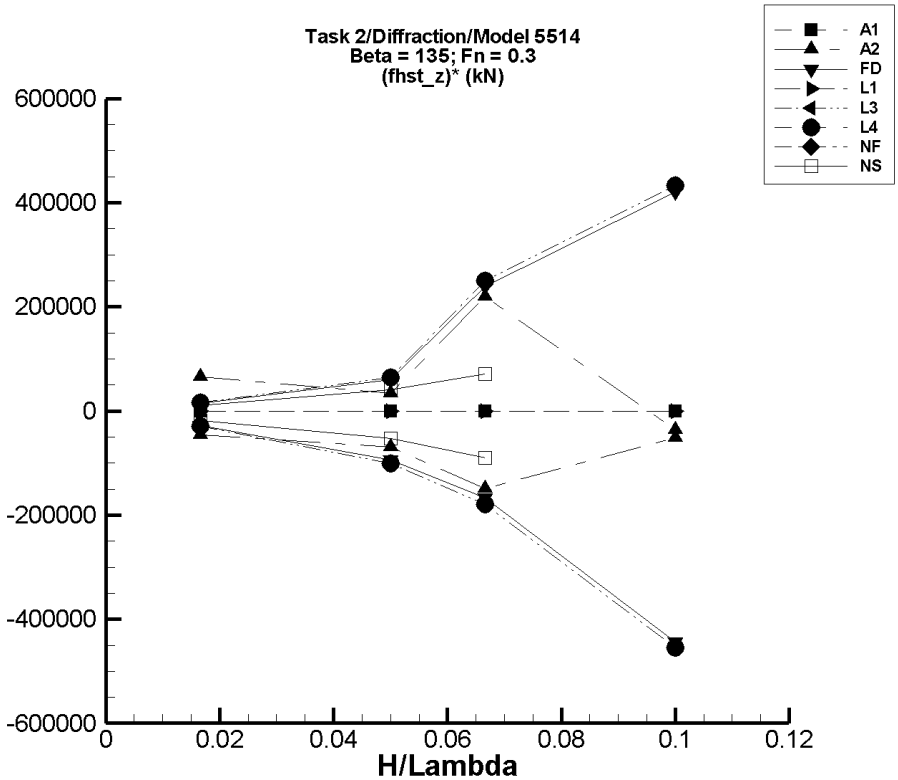

Figure R–91. Minimum and Maximum of $(F_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–721. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-3.75	-3.75
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-1.25	-1.25
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-0.937	-0.937
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-0.625	-0.625

Table R–722. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.05E+04	9.24E+04	9.05E+04	9.24E+04	-4.54E+04	6.54E+04
1/20	8.63E+04	8.22E+04	8.81E+04	8.28E+04	8.80E+04	-6.99E+04	3.42E+04
1/15	8.53E+04	7.45E+04	1.02E+05	7.54E+04	1.00E+05	-1.49E+05	2.20E+05
1/10	4.42E+04	3.90E+04	4.06E+04	3.90E+04	4.06E+04	-5.14E+04	-3.59E+04

Table R–723. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.11E+04	9.18E+04	9.11E+04	9.18E+04	-2.79E+04	1.46E+04
1/20	8.71E+04	8.20E+04	9.04E+04	8.25E+04	9.02E+04	-9.38E+04	6.04E+04
1/15	8.65E+04	7.44E+04	1.04E+05	7.54E+04	1.02E+05	-1.68E+05	2.39E+05
1/10	8.88E+04	4.21E+04	1.34E+05	4.45E+04	1.31E+05	-4.44E+05	4.21E+05

Table R–724. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	7.03	7.03
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	2.34	2.34
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	1.76	1.76
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	1.17	1.17

Table R–725. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.01E+04	1.56E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.02E+04	-1.01E+05	6.41E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.45E+04	1.03E+05	-1.80E+05	2.49E+05
1/10	8.87E+04	4.21E+04	1.37E+05	4.32E+04	1.32E+05	-4.54E+05	4.33E+05

Table R–726. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.13E+04	9.08E+04	9.16E+04	9.08E+04	9.16E+04	-3.01E+04	1.56E+04
1/20	8.70E+04	8.18E+04	9.03E+04	8.19E+04	9.02E+04	-1.01E+05	6.41E+04
1/15	8.65E+04	7.42E+04	1.04E+05	7.45E+04	1.03E+05	-1.80E+05	2.49E+05
1/10	8.87E+04	4.21E+04	1.37E+05	4.32E+04	1.32E+05	-4.54E+05	4.33E+05

Table R–727. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–728. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.13E+04	9.18E+04	9.13E+04	9.18E+04	-1.87E+04	1.09E+04
1/20	8.52E+04	8.25E+04	8.73E+04	8.26E+04	8.72E+04	-5.21E+04	4.04E+04
1/15	8.16E+04	7.54E+04	8.63E+04	7.56E+04	8.63E+04	-9.00E+04	7.12E+04
1/10	—	—	—	—	—	—	—

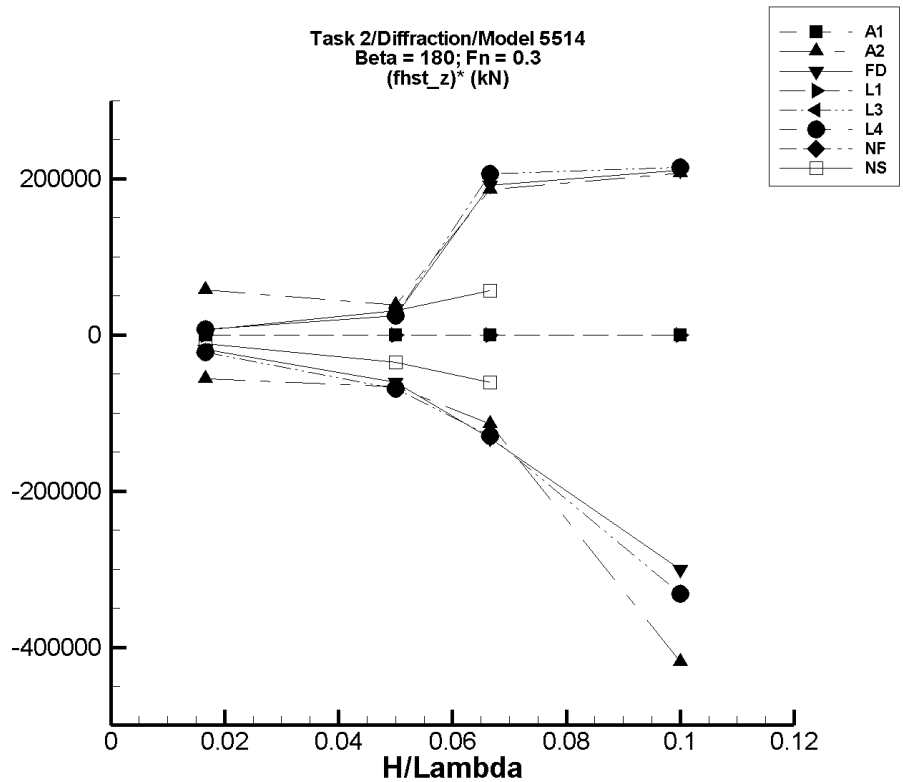

Figure R–92. Minimum and Maximum of $(F_z^{\mathrm{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–729. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-2.34	-2.34
1/20	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-0.781	-0.781
1/15	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-0.586	-0.586
1/10	9.20E+04	9.20E+04	9.20E+04	9.20E+04	9.20E+04	-0.391	-0.391

Table R–730. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.02E+04	9.23E+04	9.03E+04	9.22E+04	-5.62E+04	5.78E+04
1/20	8.62E+04	8.27E+04	8.83E+04	8.29E+04	8.81E+04	-6.67E+04	3.83E+04
1/15	8.51E+04	7.62E+04	9.97E+04	7.75E+04	9.75E+04	-1.14E+05	1.86E+05
1/10	7.67E+04	1.43E+04	1.11E+05	3.49E+04	9.74E+04	-4.19E+05	2.07E+05

Table R–731. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.16E+04	9.12E+04	9.17E+04	9.13E+04	9.17E+04	-1.89E+04	7.40E+03
1/20	8.71E+04	8.34E+04	8.84E+04	8.41E+04	8.84E+04	-6.05E+04	2.48E+04
1/15	8.65E+04	7.71E+04	1.03E+05	7.77E+04	9.93E+04	-1.33E+05	1.92E+05
1/10	8.87E+04	5.36E+04	1.19E+05	5.87E+04	1.10E+05	-3.01E+05	2.11E+05

Table R–732. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	13.6	13.6
1/20	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	4.53	4.53
1/15	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	3.40	3.40
1/10	9.18E+04	9.18E+04	9.18E+04	9.18E+04	9.18E+04	2.27	2.27

Table R–733. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.20E+04	7.02E+03
1/20	8.69E+04	8.32E+04	8.82E+04	8.35E+04	8.82E+04	-6.89E+04	2.47E+04
1/15	8.61E+04	7.69E+04	1.02E+05	7.74E+04	9.98E+04	-1.30E+05	2.06E+05
1/10	8.85E+04	5.31E+04	1.14E+05	5.54E+04	1.10E+05	-3.31E+05	2.15E+05

Table R–734. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $(F_z^{\text{hst}})^*$ Min. (kN)	Filtered $(F_z^{\text{hst}})^*$ Max. (kN)
1/60	9.13E+04	9.10E+04	9.15E+04	9.10E+04	9.15E+04	-2.20E+04	7.02E+03
1/20	8.69E+04	8.32E+04	8.82E+04	8.35E+04	8.82E+04	-6.89E+04	2.47E+04
1/15	8.61E+04	7.69E+04	1.02E+05	7.74E+04	9.98E+04	-1.30E+05	2.06E+05
1/10	8.85E+04	5.31E+04	1.14E+05	5.54E+04	1.10E+05	-3.31E+05	2.15E+05

Table R–735. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–736. Minimum and Maximum of F_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{hst}} \rangle$ Mean (kN)	Unfiltered F_z^{hst} Min. (kN)	Unfiltered F_z^{hst} Max. (kN)	Filtered F_z^{hst} Min. (kN)	Filtered F_z^{hst} Max. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{hst}}\right)^*$ Max. (kN)
1/60	9.16E+04	9.14E+04	9.17E+04	9.14E+04	9.17E+04	-1.14E+04	6.19E+03
1/20	8.51E+04	8.33E+04	8.67E+04	8.33E+04	8.66E+04	-3.54E+04	3.11E+04
1/15	8.12E+04	7.72E+04	8.51E+04	7.72E+04	8.50E+04	-6.09E+04	5.70E+04
1/10	—	—	—	—	—	—	—

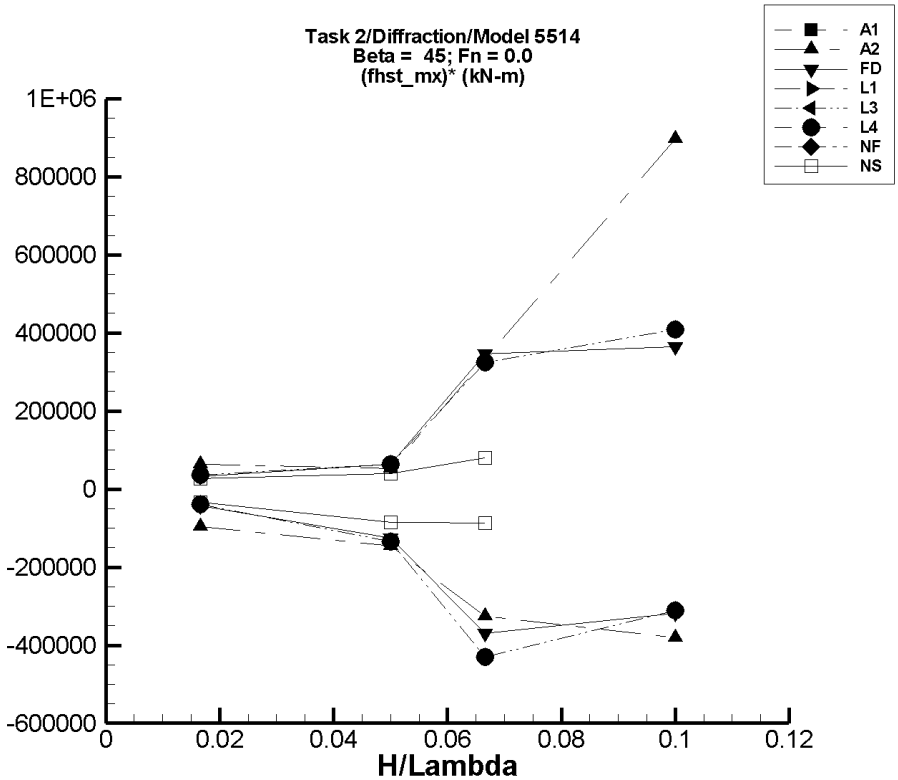

Figure R–93. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–737. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

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

Table R–738. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-2.10	-1.62E+03	1.05E+03	-1.60E+03	1.05E+03	-9.59E+04	6.33E+04
1/20	-7.73	-9.83E+03	2.67E+03	-7.31E+03	2.60E+03	-1.46E+05	5.21E+04
1/15	736.	-3.42E+04	2.52E+04	-2.09E+04	2.30E+04	-3.25E+05	3.34E+05
1/10	6.51E+03	-2.99E+05	4.57E+05	-3.15E+04	9.62E+04	-3.80E+05	8.97E+05

Table R–739. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	8.66	-732.	565.	-704.	556.	-4.28E+04	3.28E+04
1/20	-5.44	-7.27E+03	3.30E+03	-6.24E+03	3.19E+03	-1.25E+05	6.39E+04
1/15	523.	-2.97E+04	2.64E+04	-2.41E+04	2.36E+04	-3.69E+05	3.47E+05
1/10	-118.	-3.38E+04	4.27E+04	-3.20E+04	3.64E+04	-3.19E+05	3.65E+05

Table R–740. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

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

Table R–741. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	4.73	-649.	609.	-640.	603.	-3.87E+04	3.59E+04
1/20	11.6	-7.15E+03	3.26E+03	-6.68E+03	3.21E+03	-1.34E+05	6.39E+04
1/15	727.	-3.26E+04	2.65E+04	-2.79E+04	2.23E+04	-4.30E+05	3.24E+05
1/10	-528.	-3.31E+04	4.64E+04	-3.16E+04	4.03E+04	-3.11E+05	4.09E+05

Table R–742. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	4.73	-649.	609.	-640.	603.	-3.87E+04	3.59E+04
1/20	11.6	-7.15E+03	3.26E+03	-6.68E+03	3.21E+03	-1.34E+05	6.39E+04
1/15	727.	-3.26E+04	2.65E+04	-2.79E+04	2.23E+04	-4.30E+05	3.24E+05
1/10	-528.	-3.31E+04	4.64E+04	-3.16E+04	4.03E+04	-3.11E+05	4.09E+05

Table R–743. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–744. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Max. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Min. (kN-m)	Max. (kN-m)
1/60	3.02	-596.	477.	-573.	453.	-3.46E+04	2.70E+04
1/20	49.8	-4.42E+03	2.00E+03	-4.23E+03	2.00E+03	-8.56E+04	3.91E+04
1/15	56.2	-5.78E+03	5.47E+03	-5.69E+03	5.43E+03	-8.61E+04	8.06E+04
1/10	—	—	—	—	—	—	—

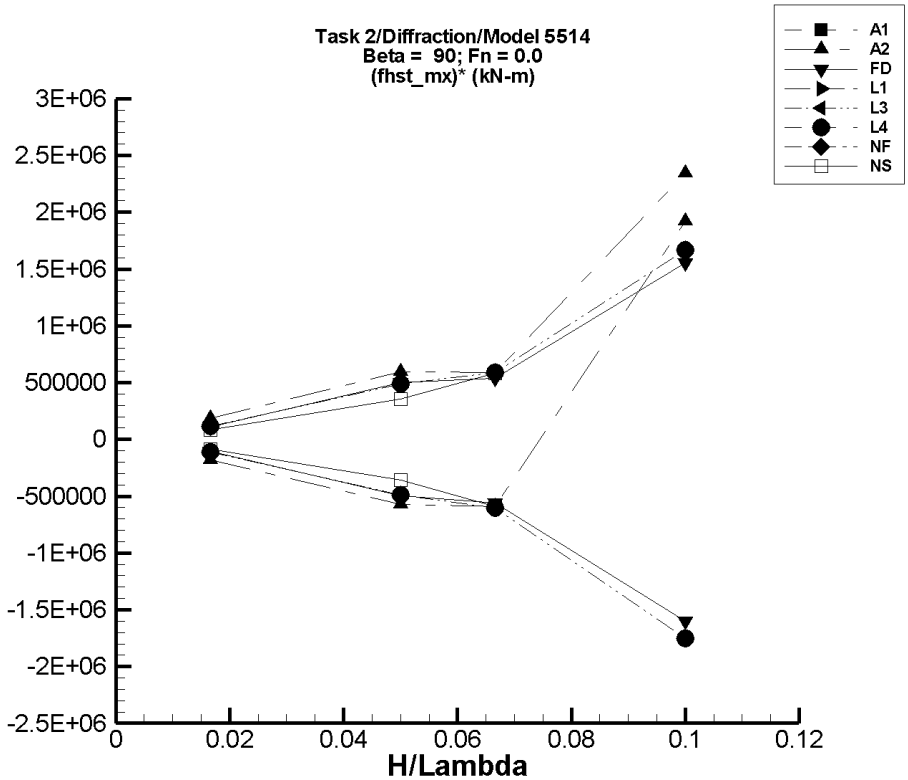

Figure R–94. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–745. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

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

Table R–746. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-10.6	-3.30E+03	3.17E+03	-3.06E+03	3.06E+03	-1.83E+05	1.84E+05
1/20	-385.	-6.96E+04	3.08E+04	-2.89E+04	2.94E+04	-5.70E+05	5.96E+05
1/15	108.	-4.89E+04	4.89E+04	-3.92E+04	3.93E+04	-5.90E+05	5.87E+05
1/10	-3.50E+05	-1.59E+05	-1.16E+05	-1.59E+05	-1.16E+05	1.92E+06	2.34E+06

Table R–747. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-1.29	-1.87E+03	1.86E+03	-1.77E+03	1.77E+03	-1.06E+05	1.06E+05
1/20	-164.	-2.64E+04	2.63E+04	-2.49E+04	2.50E+04	-4.96E+05	5.03E+05
1/15	125.	-4.61E+04	4.64E+04	-3.71E+04	3.59E+04	-5.59E+05	5.37E+05
1/10	2.39E+03	-1.87E+05	1.88E+05	-1.58E+05	1.58E+05	-1.60E+06	1.55E+06

Table R–748. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–749. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	0.782	-1.91E+03	1.90E+03	-1.88E+03	1.88E+03	-1.13E+05	1.12E+05
1/20	-60.7	-2.49E+04	2.49E+04	-2.44E+04	2.44E+04	-4.88E+05	4.90E+05
1/15	343.	-4.81E+04	4.79E+04	-3.98E+04	3.97E+04	-6.03E+05	5.91E+05
1/10	2.00E+03	-1.98E+05	1.92E+05	-1.73E+05	1.69E+05	-1.75E+06	1.67E+06

Table R–750. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	0.782	-1.91E+03	1.90E+03	-1.88E+03	1.88E+03	-1.13E+05	1.12E+05
1/20	-60.7	-2.49E+04	2.49E+04	-2.44E+04	2.44E+04	-4.88E+05	4.90E+05
1/15	343.	-4.81E+04	4.79E+04	-3.98E+04	3.97E+04	-6.03E+05	5.91E+05
1/10	2.00E+03	-1.98E+05	1.92E+05	-1.73E+05	1.69E+05	-1.75E+06	1.67E+06

Table R–751. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–752. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.37	-1.50E+03	1.49E+03	-1.43E+03	1.44E+03	-8.62E+04	8.61E+04
1/20	83.2	-1.87E+04	1.86E+04	-1.78E+04	1.78E+04	-3.57E+05	3.53E+05
1/15	214.	-4.04E+04	4.02E+04	-3.92E+04	3.91E+04	-5.92E+05	5.84E+05
1/10	—	—	—	—	—	—	—

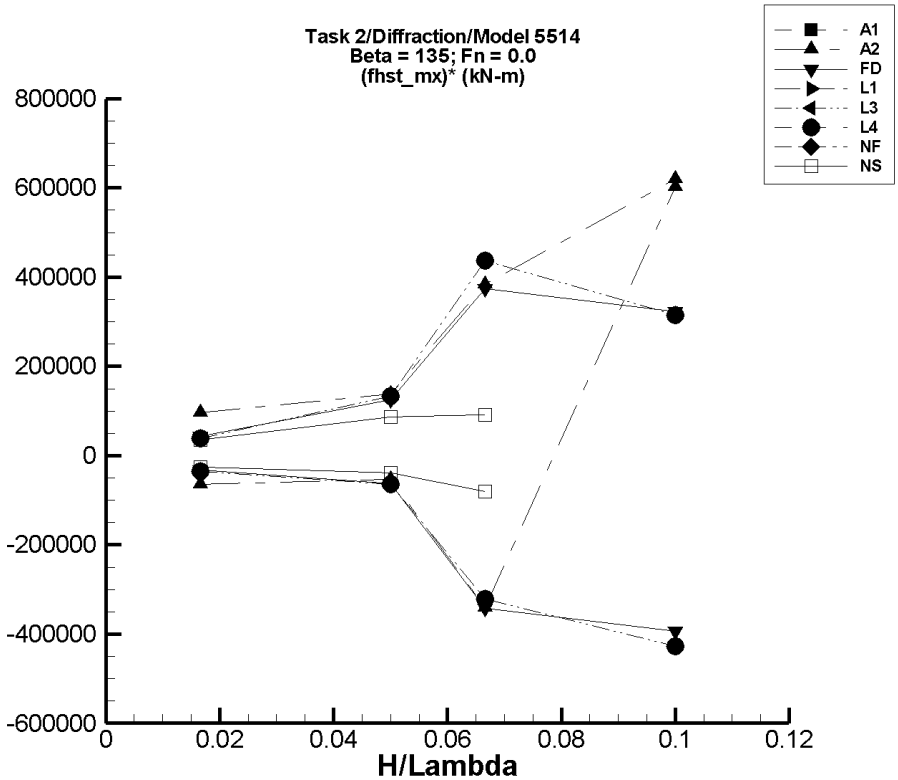

Figure R–95. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–753. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–754. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-18.5	-2.18E+03	1.62E+03	-1.10E+03	1.57E+03	-6.50E+04	9.56E+04
1/20	41.0	-2.66E+03	7.98E+03	-2.60E+03	6.95E+03	-5.28E+04	1.38E+05
1/15	-245.	-2.51E+04	3.69E+04	-2.30E+04	2.53E+04	-3.41E+05	3.83E+05
1/10	-5.29E+04	7.33E+03	9.12E+03	7.33E+03	9.12E+03	6.02E+05	6.20E+05

Table R–755. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.82	-568.	733.	-554.	704.	-3.28E+04	4.27E+04
1/20	-25.9	-3.30E+03	7.28E+03	-3.19E+03	6.23E+03	-6.32E+04	1.25E+05
1/15	-574.	-2.67E+04	3.00E+04	-2.34E+04	2.44E+04	-3.43E+05	3.74E+05
1/10	-305.	-4.81E+04	3.44E+04	-3.96E+04	3.20E+04	-3.93E+05	3.23E+05

Table R–756. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–757. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.92	-609.	649.	-603.	640.	-3.58E+04	3.87E+04
1/20	-12.7	-3.25E+03	7.15E+03	-3.21E+03	6.68E+03	-6.39E+04	1.34E+05
1/15	-616.	-2.59E+04	3.22E+04	-2.21E+04	2.85E+04	-3.22E+05	4.37E+05
1/10	114.	-4.74E+04	3.35E+04	-4.27E+04	3.17E+04	-4.28E+05	3.15E+05

Table R–758. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.92	-609.	649.	-603.	640.	-3.58E+04	3.87E+04
1/20	-12.7	-3.25E+03	7.15E+03	-3.21E+03	6.68E+03	-6.39E+04	1.34E+05
1/15	-616.	-2.59E+04	3.22E+04	-2.21E+04	2.85E+04	-3.22E+05	4.37E+05
1/10	114.	-4.74E+04	3.35E+04	-4.27E+04	3.17E+04	-4.28E+05	3.15E+05

Table R–759. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–760. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.81	-468.	603.	-445.	579.	-2.66E+04	3.48E+04
1/20	13.3	-1.97E+03	4.58E+03	-1.93E+03	4.37E+03	-3.88E+04	8.72E+04
1/15	24.5	-5.39E+03	6.24E+03	-5.33E+03	6.08E+03	-8.04E+04	9.08E+04
1/10	—	—	—	—	—	—	—

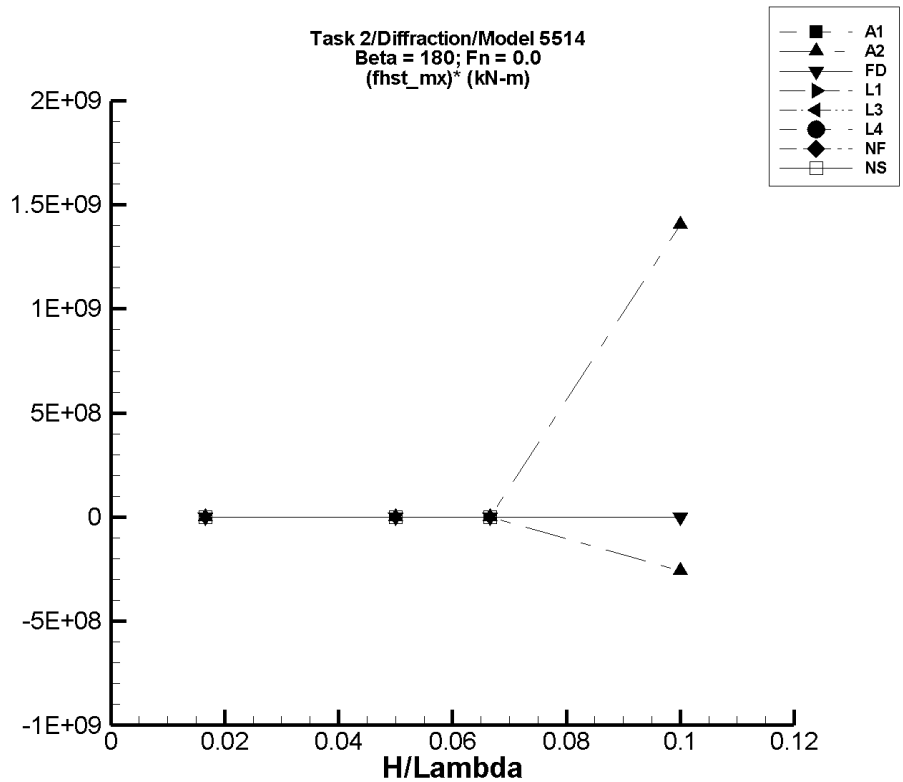

Figure R–96. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–761. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–762. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.79E-05	-6.67E-04	4.32E-04	-1.21E-04	1.25E-04	-8.35E-03	6.44E-03
1/20	-33.0	-5.60E+03	7.32	-745.	63.8	-1.42E+04	1.94E+03
1/15	-50.3	-3.13E+03	7.57E-02	-570.	35.9	-7.80E+03	1.29E+03
1/10	1.26E+07	-1.34E+05	1.15E+09	-1.31E+07	1.53E+08	-2.57E+08	1.40E+09

Table R–763. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.36E-04	-1.43E-03	7.32E-05	-4.63E-04	-1.18E-04	-1.36E-02	7.06E-03
1/20	5.25E-04	-2.43E-03	1.19E-02	-1.14E-03	2.64E-03	-3.33E-02	4.24E-02
1/15	1.23E-03	-1.91E-02	2.52E-02	-2.61E-03	5.71E-03	-5.76E-02	6.72E-02
1/10	7.92E-04	-5.60E-03	4.74E-02	-1.38E-03	6.81E-03	-2.17E-02	6.02E-02

Table R–764. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–765. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–766. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–767. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–768. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	5.98E-04	-8.55E-03	8.74E-03	-1.73E-03	2.32E-03	-0.140	0.103
1/20	-4.62E-04	-1.40E-02	1.40E-02	-9.65E-03	2.94E-03	-0.184	6.80E-02
1/15	-7.39E-04	-1.76E-02	2.44E-02	-8.21E-03	3.97E-03	-0.112	7.07E-02
1/10	—	—	—	—	—	—	—

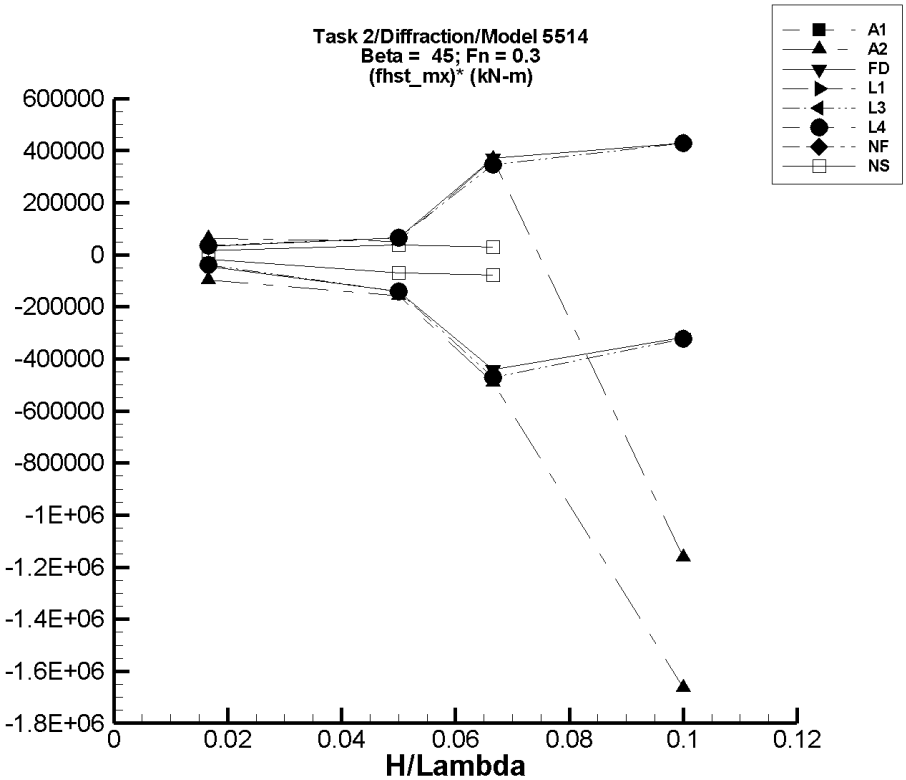

Figure R–97. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–769. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

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

Table R–770. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-0.899	-1.62E+03	1.05E+03	-1.61E+03	1.05E+03	-9.65E+04	6.33E+04
1/20	27.0	-8.00E+03	2.67E+03	-7.80E+03	2.64E+03	-1.57E+05	5.23E+04
1/15	-1.34	-3.81E+04	2.52E+04	-3.28E+04	2.45E+04	-4.92E+05	3.68E+05
1/10	1.48E+05	-2.04E+04	3.99E+04	-1.83E+04	3.20E+04	-1.67E+06	-1.16E+06

Table R–771. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	7.34	-733.	565.	-726.	565.	-4.40E+04	3.34E+04
1/20	16.3	-7.30E+03	3.30E+03	-7.01E+03	3.27E+03	-1.41E+05	6.51E+04
1/15	628.	-3.13E+04	2.67E+04	-2.88E+04	2.53E+04	-4.42E+05	3.70E+05
1/10	-338.	-3.34E+04	4.67E+04	-3.21E+04	4.26E+04	-3.17E+05	4.29E+05

Table R–772. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

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

Table R–773. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	7.02	-649.	611.	-647.	608.	-3.93E+04	3.61E+04
1/20	2.46	-7.17E+03	3.26E+03	-7.06E+03	3.25E+03	-1.41E+05	6.49E+04
1/15	565.	-3.27E+04	2.77E+04	-3.09E+04	2.37E+04	-4.73E+05	3.47E+05
1/10	568.	-3.38E+04	5.19E+04	-3.18E+04	4.35E+04	-3.24E+05	4.29E+05

Table R–774. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	7.02	-649.	611.	-647.	608.	-3.93E+04	3.61E+04
1/20	2.46	-7.17E+03	3.26E+03	-7.06E+03	3.25E+03	-1.41E+05	6.49E+04
1/15	565.	-3.27E+04	2.77E+04	-3.09E+04	2.37E+04	-4.73E+05	3.47E+05
1/10	568.	-3.38E+04	5.19E+04	-3.18E+04	4.35E+04	-3.24E+05	4.29E+05

Table R–775. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–776. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	0.821	-303.	258.	-290.	247.	-1.75E+04	1.48E+04
1/20	35.0	-3.65E+03	2.00E+03	-3.43E+03	1.89E+03	-6.93E+04	3.70E+04
1/15	47.5	-5.23E+03	2.19E+03	-5.06E+03	2.10E+03	-7.66E+04	3.07E+04
1/10	—	—	—	—	—	—	—

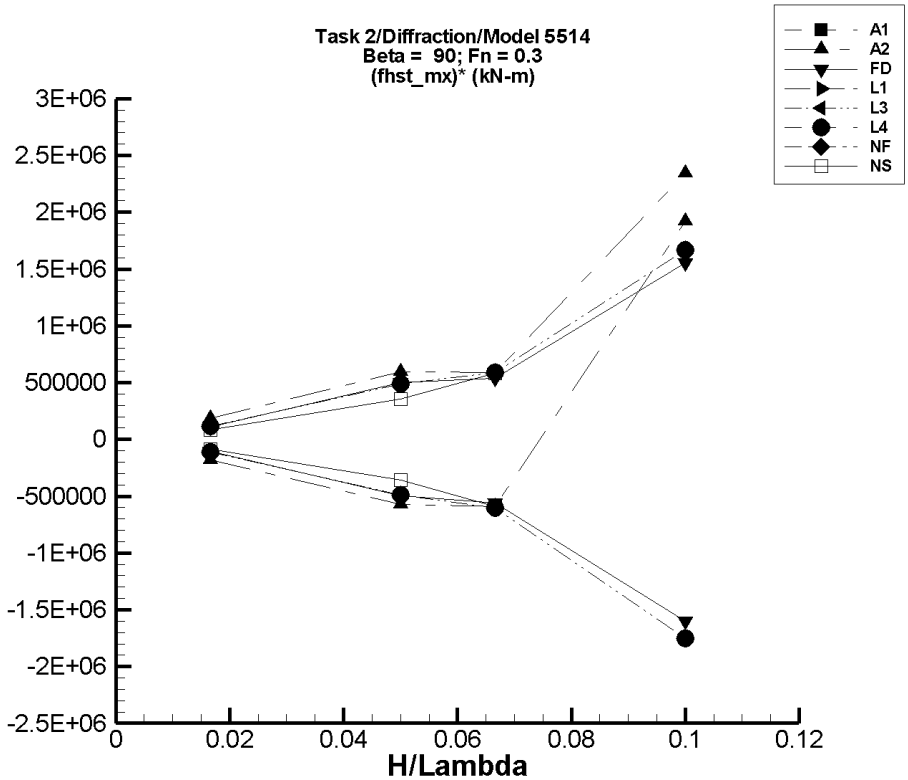

Figure R–98. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–777. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

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

Table R–778. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-10.6	-3.30E+03	3.17E+03	-3.06E+03	3.06E+03	-1.83E+05	1.84E+05
1/20	-385.	-6.96E+04	3.08E+04	-2.89E+04	2.94E+04	-5.70E+05	5.96E+05
1/15	108.	-4.89E+04	4.89E+04	-3.92E+04	3.93E+04	-5.90E+05	5.87E+05
1/10	-3.50E+05	-1.59E+05	-1.16E+05	-1.59E+05	-1.16E+05	1.92E+06	2.34E+06

Table R–779. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-1.30	-1.87E+03	1.86E+03	-1.77E+03	1.77E+03	-1.06E+05	1.06E+05
1/20	-164.	-2.64E+04	2.63E+04	-2.49E+04	2.50E+04	-4.96E+05	5.03E+05
1/15	125.	-4.61E+04	4.64E+04	-3.71E+04	3.59E+04	-5.59E+05	5.37E+05
1/10	2.39E+03	-1.87E+05	1.88E+05	-1.58E+05	1.58E+05	-1.60E+06	1.55E+06

Table R–780. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

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

Table R–781. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	0.772	-1.91E+03	1.90E+03	-1.88E+03	1.88E+03	-1.13E+05	1.12E+05
1/20	-60.7	-2.49E+04	2.49E+04	-2.44E+04	2.44E+04	-4.88E+05	4.90E+05
1/15	343.	-4.81E+04	4.79E+04	-3.98E+04	3.97E+04	-6.03E+05	5.91E+05
1/10	2.00E+03	-1.98E+05	1.92E+05	-1.73E+05	1.69E+05	-1.75E+06	1.67E+06

Table R–782. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	0.772	-1.91E+03	1.90E+03	-1.88E+03	1.88E+03	-1.13E+05	1.12E+05
1/20	-60.7	-2.49E+04	2.49E+04	-2.44E+04	2.44E+04	-4.88E+05	4.90E+05
1/15	343.	-4.81E+04	4.79E+04	-3.98E+04	3.97E+04	-6.03E+05	5.91E+05
1/10	2.00E+03	-1.98E+05	1.92E+05	-1.73E+05	1.69E+05	-1.75E+06	1.67E+06

Table R–783. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–784. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.36	-1.50E+03	1.49E+03	-1.44E+03	1.44E+03	-8.62E+04	8.62E+04
1/20	86.1	-1.87E+04	1.86E+04	-1.78E+04	1.78E+04	-3.58E+05	3.54E+05
1/15	214.	-4.04E+04	4.02E+04	-3.92E+04	3.91E+04	-5.92E+05	5.84E+05
1/10	—	—	—	—	—	—	—

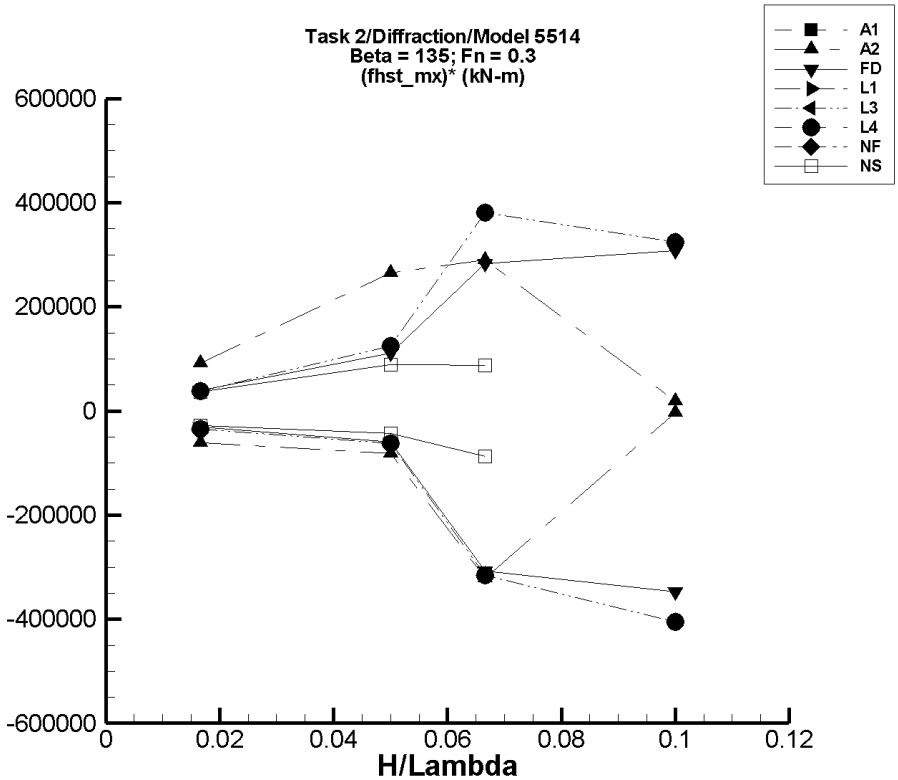

Figure R–99. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–785. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

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

Table R–786. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-10.1	-1.05E+03	1.61E+03	-1.03E+03	1.51E+03	-6.11E+04	9.12E+04
1/20	1.12E+03	-2.66E+03	7.02E+04	-2.97E+03	1.44E+04	-8.18E+04	2.66E+05
1/15	-141.	-2.50E+04	3.81E+04	-2.16E+04	1.92E+04	-3.22E+05	2.90E+05
1/10	6.75E+03	6.42E+03	8.67E+03	6.42E+03	8.67E+03	-3.29E+03	1.93E+04

Table R–787. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-2.87	-564.	729.	-521.	658.	-3.11E+04	3.97E+04
1/20	-51.3	-3.30E+03	7.26E+03	-3.02E+03	5.47E+03	-5.93E+04	1.10E+05
1/15	-629.	-2.52E+04	2.93E+04	-2.12E+04	1.83E+04	-3.08E+05	2.84E+05
1/10	-583.	-4.66E+04	3.44E+04	-3.53E+04	3.02E+04	-3.48E+05	3.07E+05

Table R–788. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

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

Table R–789. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-4.97	-609.	649.	-589.	625.	-3.51E+04	3.78E+04
1/20	2.99	-3.25E+03	7.17E+03	-3.15E+03	6.22E+03	-6.31E+04	1.24E+05
1/15	-353.	-2.59E+04	3.17E+04	-2.14E+04	2.50E+04	-3.15E+05	3.80E+05
1/10	-696.	-4.97E+04	3.35E+04	-4.13E+04	3.17E+04	-4.06E+05	3.24E+05

Table R–790. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{hst}})^*$ Max. (kN-m)
1/60	-4.97	-609.	649.	-589.	625.	-3.51E+04	3.78E+04
1/20	2.99	-3.25E+03	7.17E+03	-3.15E+03	6.22E+03	-6.31E+04	1.24E+05
1/15	-353.	-2.59E+04	3.17E+04	-2.14E+04	2.50E+04	-3.15E+05	3.80E+05
1/10	-696.	-4.97E+04	3.35E+04	-4.13E+04	3.17E+04	-4.06E+05	3.24E+05

Table R–791. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–792. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.87	-486.	635.	-461.	610.	-2.76E+04	3.67E+04
1/20	14.6	-2.20E+03	4.66E+03	-2.15E+03	4.46E+03	-4.34E+04	8.88E+04
1/15	21.8	-5.91E+03	6.03E+03	-5.83E+03	5.90E+03	-8.77E+04	8.82E+04
1/10	—	—	—	—	—	—	—

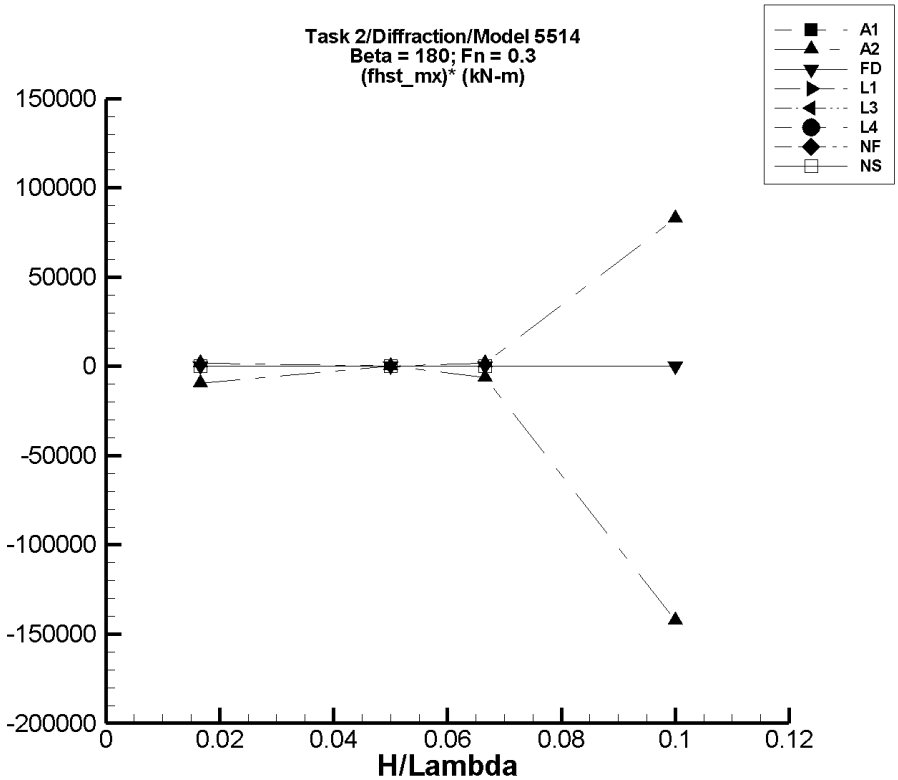

Figure R–100. Minimum and Maximum of $(M_x^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–793. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–794. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-16.0	-1.31E+03	9.21E-04	-174.	15.0	-9.51E+03	1.86E+03
1/20	1.09E-03	-5.20E-02	3.97E-02	-4.74E-03	6.81E-03	-0.117	0.114
1/15	-69.2	-3.70E+03	0.128	-497.	42.6	-6.41E+03	1.68E+03
1/10	-3.57E+03	-1.35E+05	1.85E+04	-1.78E+04	4.72E+03	-1.42E+05	8.29E+04

Table R–795. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_x^{hst} Min. (kN-m)	Unfiltered M_x^{hst} Max. (kN-m)	Filtered M_x^{hst} Min. (kN-m)	Filtered M_x^{hst} Max. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-4.17E-03	-3.13E-02	1.19E-02	-2.12E-02	3.16E-03	-1.02	0.440
1/20	-8.27E-04	-7.25E-02	4.60E-02	-2.69E-02	1.68E-02	-0.521	0.353
1/15	-1.73E-03	-0.126	0.132	-4.60E-02	2.90E-02	-0.665	0.461
1/10	0.185	-0.442	21.4	-0.314	2.86	-5.00	26.7

Table R–796. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–797. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–798. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–799. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–800. Minimum and Maximum of M_x^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.11E-04	-1.20E-02	8.95E-03	-1.76E-03	1.94E-03	-0.112	0.110
1/20	-1.98E-04	-1.10E-02	1.04E-02	-3.77E-03	4.36E-03	-7.15E-02	9.12E-02
1/15	-7.11E-04	-1.96E-02	1.28E-02	-5.80E-03	4.52E-03	-7.63E-02	7.84E-02
1/10	—	—	—	—	—	—	—

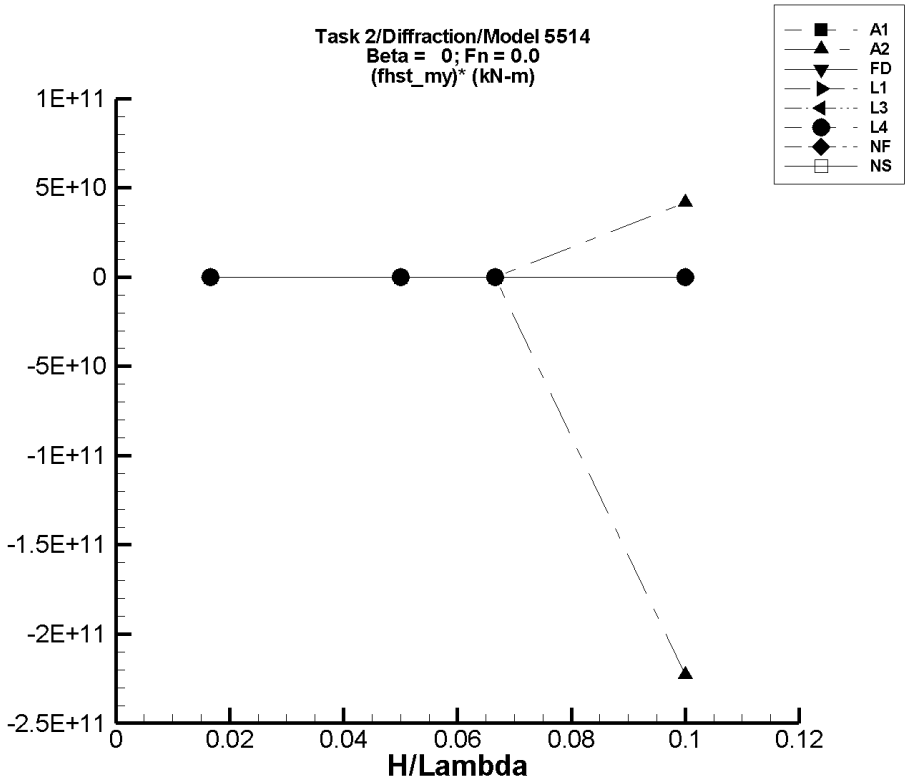

Figure R–101. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–801. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–802. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.83E+03	-4.64E+04	1.01E+04	-4.39E+04	9.49E+03	-2.28E+06	9.19E+05
1/20	-7.40E+04	-3.56E+05	8.36E+04	-3.44E+05	7.88E+04	-5.40E+06	3.06E+06
1/15	2.92E+04	-5.42E+05	8.02E+05	-5.17E+05	7.71E+05	-8.19E+06	1.11E+07
1/10	-2.07E+09	-1.83E+11	2.57E+06	-2.44E+10	2.09E+09	-2.23E+11	4.16E+10

Table R–803. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.03E+04	-2.12E+04	2.35E+04	-1.98E+04	2.32E+04	-1.81E+06	7.72E+05
1/20	-4.53E+04	-3.25E+05	1.12E+05	-3.24E+05	1.08E+05	-5.58E+06	3.06E+06
1/15	1.00E+05	-4.79E+05	9.59E+05	-4.75E+05	8.45E+05	-8.62E+06	1.12E+07
1/10	3.84E+05	-1.43E+06	2.10E+06	-1.39E+06	1.95E+06	-1.77E+07	1.57E+07

Table R–804. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–805. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.37E+03	-3.89E+04	7.44E+03	-3.86E+04	7.31E+03	-1.93E+06	8.21E+05
1/20	-5.86E+04	-3.36E+05	9.58E+04	-3.35E+05	9.30E+04	-5.53E+06	3.03E+06
1/15	8.49E+04	-4.92E+05	9.02E+05	-4.90E+05	8.31E+05	-8.62E+06	1.12E+07
1/10	3.44E+05	-1.59E+06	2.04E+06	-1.43E+06	1.95E+06	-1.78E+07	1.61E+07

Table R–806. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.37E+03	-3.89E+04	7.44E+03	-3.86E+04	7.31E+03	-1.93E+06	8.21E+05
1/20	-5.86E+04	-3.36E+05	9.58E+04	-3.35E+05	9.30E+04	-5.53E+06	3.03E+06
1/15	8.49E+04	-4.92E+05	9.02E+05	-4.90E+05	8.31E+05	-8.62E+06	1.12E+07
1/10	3.44E+05	-1.59E+06	2.04E+06	-1.43E+06	1.95E+06	-1.78E+07	1.61E+07

Table R–807. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–808. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.72E+03	-2.28E+04	5.47E+03	-2.20E+04	5.17E+03	-1.10E+06	5.33E+05
1/20	-1.81E+05	-3.24E+05	-1.02E+05	-3.20E+05	-1.03E+05	-2.77E+06	1.56E+06
1/15	-1.73E+05	-4.80E+05	7.76E+03	-4.75E+05	6.11E+03	-4.53E+06	2.69E+06
1/10	—	—	—	—	—	—	—

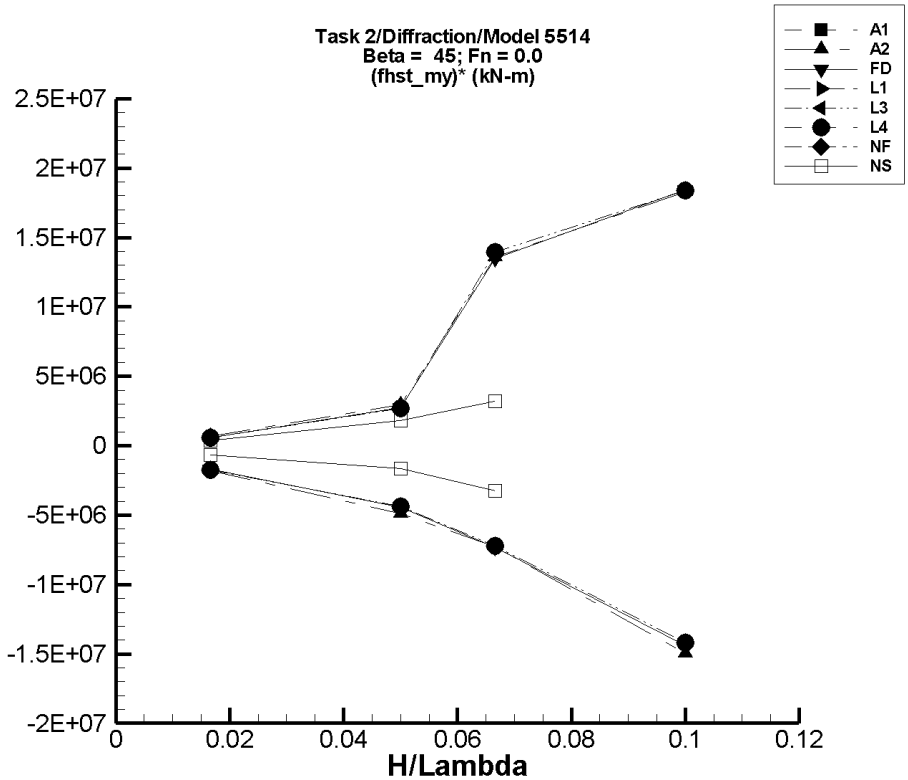

Figure R–102. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–809. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–810. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.59E+03	-4.67E+04	5.51E+03	-3.67E+04	4.77E+03	-1.80E+06	6.81E+05
1/20	-7.40E+04	-3.23E+05	7.54E+04	-3.18E+05	7.31E+04	-4.88E+06	2.94E+06
1/15	4.50E+04	-4.50E+05	9.58E+05	-4.42E+05	9.50E+05	-7.30E+06	1.36E+07
1/10	5.04E+05	-1.81E+06	2.63E+06	-9.92E+05	2.33E+06	-1.50E+07	1.83E+07

Table R–811. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.96E+03	-1.83E+04	1.91E+04	-1.82E+04	1.93E+04	-1.69E+06	5.58E+05
1/20	-4.38E+04	-2.69E+05	9.43E+04	-2.65E+05	9.22E+04	-4.43E+06	2.72E+06
1/15	1.09E+05	-3.89E+05	1.04E+06	-3.80E+05	1.01E+06	-7.33E+06	1.35E+07
1/10	3.52E+05	-1.09E+06	2.24E+06	-1.09E+06	2.19E+06	-1.44E+07	1.84E+07

Table R–812. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–813. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.47E+03	-3.60E+04	3.08E+03	-3.56E+04	3.05E+03	-1.75E+06	5.71E+05
1/20	-5.96E+04	-2.80E+05	7.64E+04	-2.79E+05	7.58E+04	-4.38E+06	2.71E+06
1/15	8.53E+04	-4.00E+05	1.03E+06	-3.98E+05	1.02E+06	-7.25E+06	1.40E+07
1/10	3.33E+05	-1.14E+06	2.19E+06	-1.09E+06	2.17E+06	-1.42E+07	1.84E+07

Table R–814. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.47E+03	-3.60E+04	3.08E+03	-3.56E+04	3.05E+03	-1.75E+06	5.71E+05
1/20	-5.96E+04	-2.80E+05	7.64E+04	-2.79E+05	7.58E+04	-4.38E+06	2.71E+06
1/15	8.53E+04	-4.00E+05	1.03E+06	-3.98E+05	1.02E+06	-7.25E+06	1.40E+07
1/10	3.33E+05	-1.14E+06	2.19E+06	-1.09E+06	2.17E+06	-1.42E+07	1.84E+07

Table R–815. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–816. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.42E+03	-1.52E+04	2.53E+03	-1.47E+04	2.42E+03	-6.76E+05	3.51E+05
1/20	-1.81E+05	-2.66E+05	-8.72E+04	-2.64E+05	-8.95E+04	-1.65E+06	1.83E+06
1/15	-1.74E+05	-3.95E+05	4.24E+04	-3.90E+05	3.96E+04	-3.24E+06	3.21E+06
1/10	—	—	—	—	—	—	—

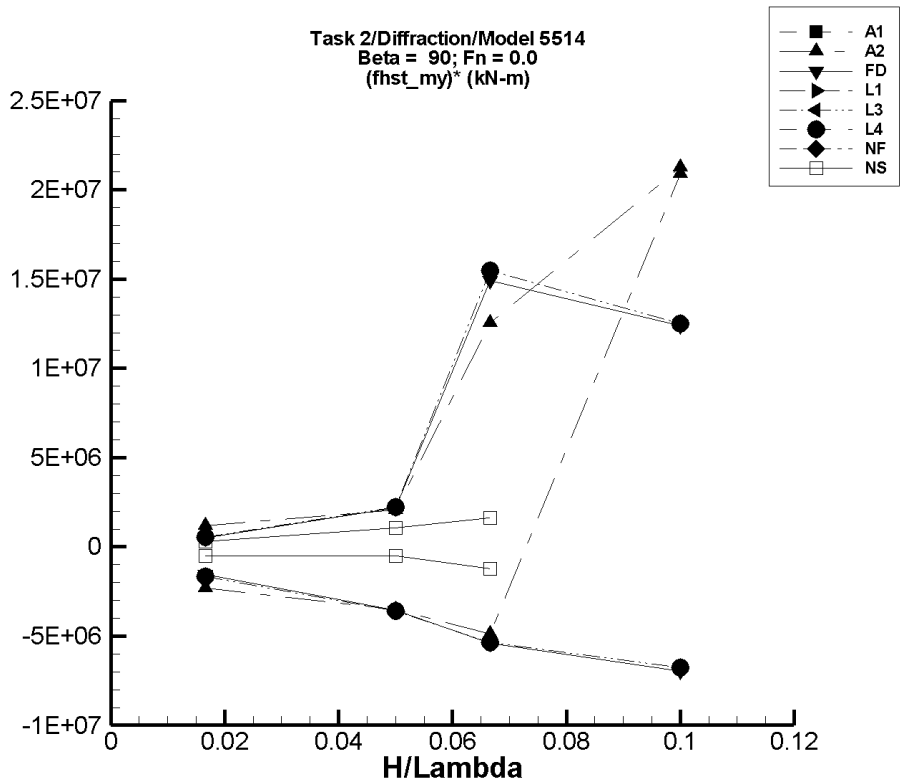

Figure R–103. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–817. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–818. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.36E+03	-4.70E+04	1.31E+04	-4.50E+04	1.32E+04	-2.32E+06	1.17E+06
1/20	-6.66E+04	-2.42E+05	3.42E+05	-2.42E+05	3.75E+04	-3.51E+06	2.08E+06
1/15	3.85E+04	-2.88E+05	1.01E+06	-2.86E+05	8.76E+05	-4.87E+06	1.26E+07
1/10	-6.40E+05	1.45E+06	1.49E+06	1.45E+06	1.49E+06	2.09E+07	2.13E+07

Table R–819. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.96E+03	-1.71E+04	1.84E+04	-1.58E+04	1.83E+04	-1.55E+06	4.99E+05
1/20	-4.59E+04	-2.25E+05	6.45E+04	-2.23E+05	6.32E+04	-3.54E+06	2.18E+06
1/15	9.02E+04	-2.70E+05	1.18E+06	-2.69E+05	1.09E+06	-5.38E+06	1.49E+07
1/10	3.66E+05	-3.44E+05	1.69E+06	-3.33E+05	1.61E+06	-6.99E+06	1.24E+07

Table R–820. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–821. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.69E+03	-3.46E+04	2.45E+03	-3.42E+04	2.43E+03	-1.65E+06	5.47E+05
1/20	-6.03E+04	-2.40E+05	5.16E+04	-2.39E+05	5.11E+04	-3.58E+06	2.23E+06
1/15	7.37E+04	-2.84E+05	1.14E+06	-2.84E+05	1.11E+06	-5.36E+06	1.55E+07
1/10	3.36E+05	-3.40E+05	1.68E+06	-3.39E+05	1.59E+06	-6.75E+06	1.25E+07

Table R–822. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.69E+03	-3.46E+04	2.45E+03	-3.42E+04	2.43E+03	-1.65E+06	5.47E+05
1/20	-6.03E+04	-2.40E+05	5.16E+04	-2.39E+05	5.11E+04	-3.58E+06	2.23E+06
1/15	7.37E+04	-2.84E+05	1.14E+06	-2.84E+05	1.11E+06	-5.36E+06	1.55E+07
1/10	3.36E+05	-3.40E+05	1.68E+06	-3.39E+05	1.59E+06	-6.75E+06	1.25E+07

Table R–823. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–824. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.99E+03	-1.19E+04	2.34E+03	-1.15E+04	2.21E+03	-5.13E+05	3.12E+05
1/20	-1.81E+05	-2.08E+05	-1.27E+05	-2.07E+05	-1.29E+05	-5.13E+05	1.05E+06
1/15	-1.75E+05	-2.58E+05	-6.54E+04	-2.58E+05	-6.70E+04	-1.23E+06	1.62E+06
1/10	—	—	—	—	—	—	—

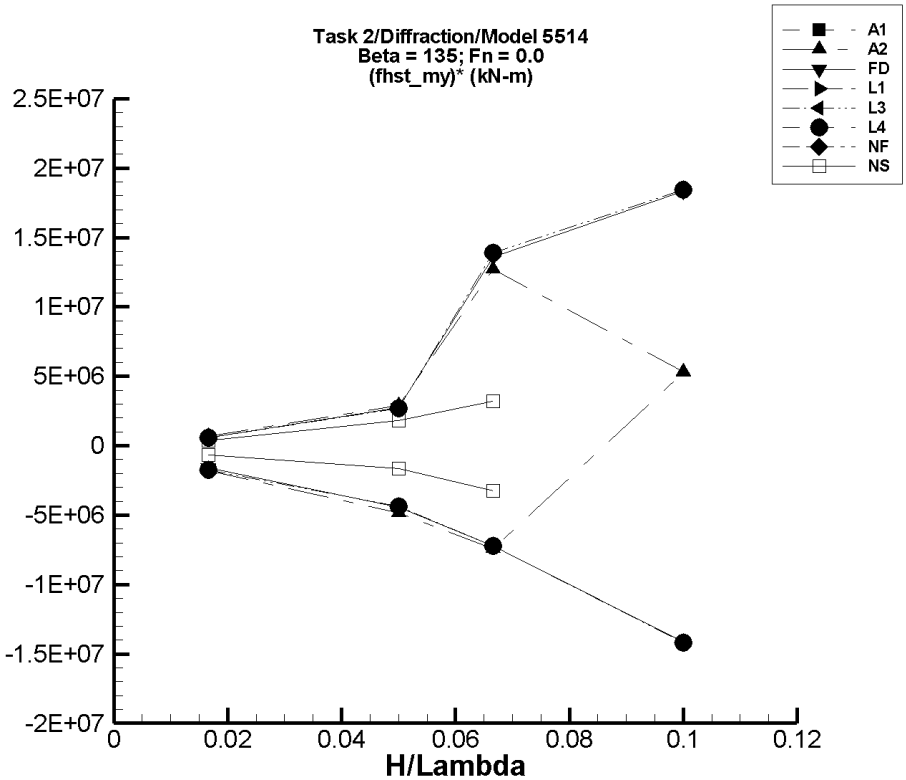

Figure R–104. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–825. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–826. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.51E+03	-4.67E+04	5.51E+03	-3.64E+04	4.78E+03	-1.80E+06	6.77E+05
1/20	-7.13E+04	-3.23E+05	7.54E+04	-3.14E+05	7.32E+04	-4.86E+06	2.89E+06
1/15	5.19E+04	-4.48E+05	9.57E+05	-4.42E+05	8.99E+05	-7.41E+06	1.27E+07
1/10	-1.24E+06	-7.16E+05	-7.09E+05	-7.16E+05	-7.09E+05	5.26E+06	5.33E+06

Table R–827. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.80E+03	-1.83E+04	1.91E+04	-1.71E+04	1.90E+04	-1.61E+06	5.54E+05
1/20	-4.45E+04	-2.69E+05	9.43E+04	-2.65E+05	9.22E+04	-4.42E+06	2.73E+06
1/15	1.00E+05	-3.88E+05	1.04E+06	-3.80E+05	1.00E+06	-7.20E+06	1.36E+07
1/10	3.59E+05	-1.09E+06	2.24E+06	-1.05E+06	2.19E+06	-1.41E+07	1.83E+07

Table R–828. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–829. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.62E+03	-3.60E+04	3.08E+03	-3.56E+04	3.05E+03	-1.74E+06	5.80E+05
1/20	-5.91E+04	-2.80E+05	7.64E+04	-2.79E+05	7.58E+04	-4.39E+06	2.70E+06
1/15	8.39E+04	-4.00E+05	1.03E+06	-3.98E+05	1.01E+06	-7.23E+06	1.39E+07
1/10	3.30E+05	-1.14E+06	2.21E+06	-1.09E+06	2.18E+06	-1.42E+07	1.85E+07

Table R–830. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.62E+03	-3.60E+04	3.08E+03	-3.56E+04	3.05E+03	-1.74E+06	5.80E+05
1/20	-5.91E+04	-2.80E+05	7.64E+04	-2.79E+05	7.58E+04	-4.39E+06	2.70E+06
1/15	8.39E+04	-4.00E+05	1.03E+06	-3.98E+05	1.01E+06	-7.23E+06	1.39E+07
1/10	3.30E+05	-1.14E+06	2.21E+06	-1.09E+06	2.18E+06	-1.42E+07	1.85E+07

Table R–831. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–832. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.38E+03	-1.52E+04	2.53E+03	-1.47E+04	2.42E+03	-6.78E+05	3.48E+05
1/20	-1.81E+05	-2.66E+05	-8.72E+04	-2.63E+05	-8.95E+04	-1.65E+06	1.82E+06
1/15	-1.73E+05	-3.94E+05	4.23E+04	-3.89E+05	3.93E+04	-3.24E+06	3.19E+06
1/10	—	—	—	—	—	—	—

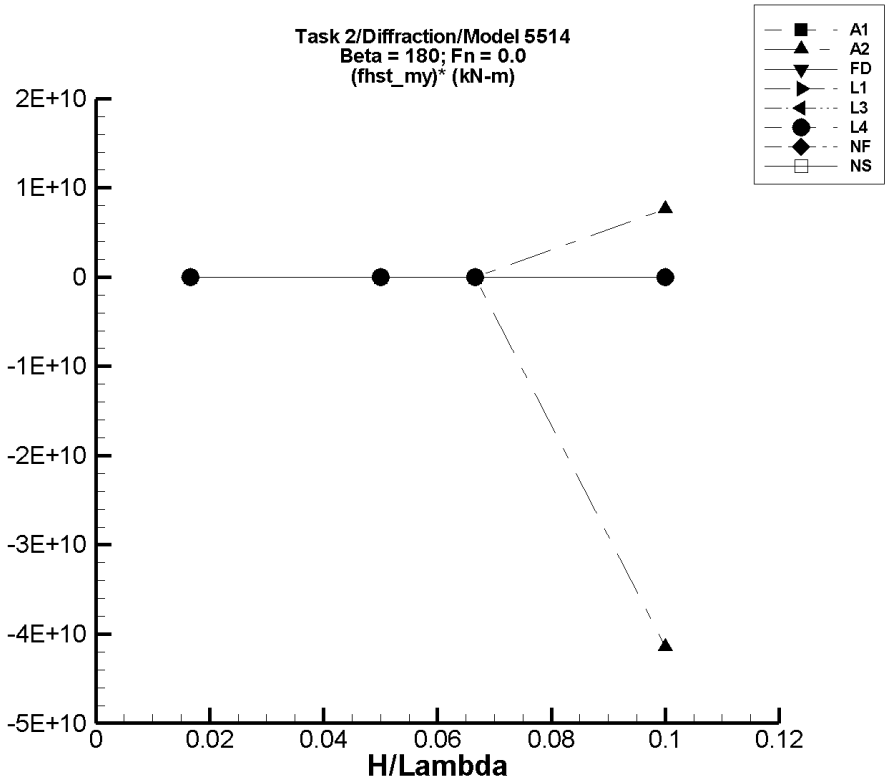

Figure R–105. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–833. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–834. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.86E+03	-4.64E+04	1.01E+04	-4.56E+04	9.50E+03	-2.39E+06	9.21E+05
1/20	-7.26E+04	-3.56E+05	8.36E+04	-3.44E+05	7.87E+04	-5.43E+06	3.03E+06
1/15	3.58E+04	-5.49E+05	8.01E+05	-5.18E+05	7.68E+05	-8.30E+06	1.10E+07
1/10	-3.72E+08	-3.39E+10	2.53E+06	-4.51E+09	3.88E+08	-4.14E+10	7.60E+09

Table R–835. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.05E+04	-2.13E+04	2.35E+04	-1.98E+04	2.35E+04	-1.82E+06	7.78E+05
1/20	-4.68E+04	-3.25E+05	1.11E+05	-3.19E+05	1.05E+05	-5.44E+06	3.03E+06
1/15	9.72E+04	-4.79E+05	9.58E+05	-4.69E+05	8.47E+05	-8.49E+06	1.13E+07
1/10	3.80E+05	-1.50E+06	2.10E+06	-1.43E+06	1.95E+06	-1.81E+07	1.57E+07

Table R–836. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–837. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.20E+03	-3.89E+04	7.44E+03	-3.84E+04	7.29E+03	-1.93E+06	8.09E+05
1/20	-6.03E+04	-3.36E+05	9.58E+04	-3.35E+05	9.29E+04	-5.50E+06	3.06E+06
1/15	8.30E+04	-4.92E+05	9.04E+05	-4.90E+05	8.27E+05	-8.59E+06	1.12E+07
1/10	3.40E+05	-1.52E+06	2.04E+06	-1.44E+06	1.95E+06	-1.78E+07	1.61E+07

Table R–838. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.20E+03	-3.89E+04	7.44E+03	-3.84E+04	7.29E+03	-1.93E+06	8.09E+05
1/20	-6.03E+04	-3.36E+05	9.58E+04	-3.35E+05	9.29E+04	-5.50E+06	3.06E+06
1/15	8.30E+04	-4.92E+05	9.04E+05	-4.90E+05	8.27E+05	-8.59E+06	1.12E+07
1/10	3.40E+05	-1.52E+06	2.04E+06	-1.44E+06	1.95E+06	-1.78E+07	1.61E+07

Table R–839. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–840. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.79E+03	-2.28E+04	5.47E+03	-2.20E+04	5.16E+03	-1.09E+06	5.37E+05
1/20	-1.81E+05	-3.24E+05	-1.02E+05	-3.20E+05	-1.03E+05	-2.78E+06	1.56E+06
1/15	-1.73E+05	-4.80E+05	7.76E+03	-4.75E+05	6.15E+03	-4.54E+06	2.68E+06
1/10	—	—	—	—	—	—	—

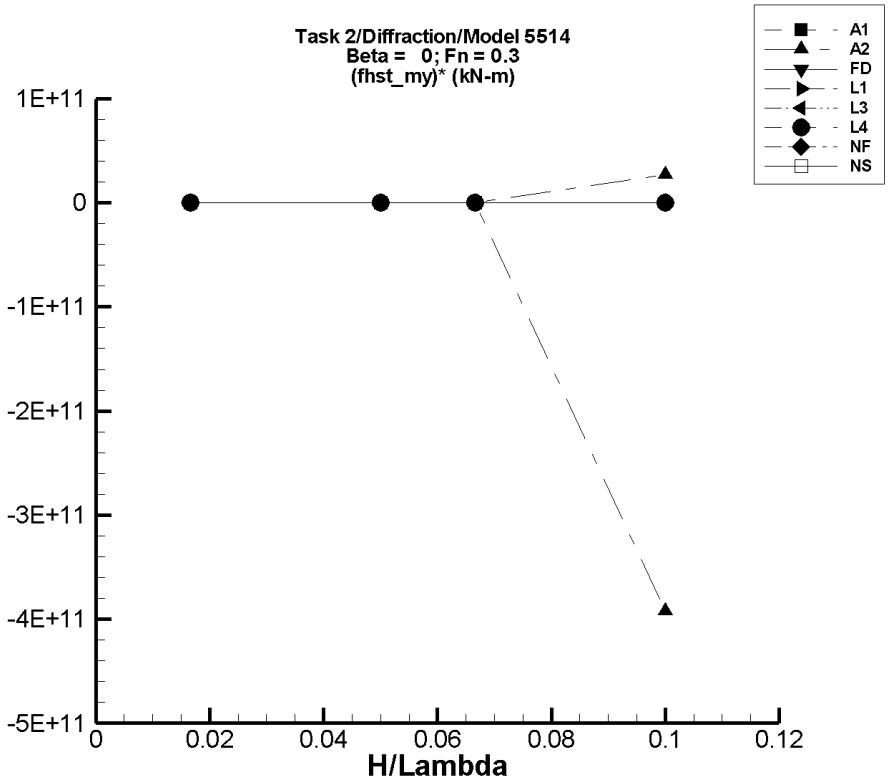

Figure R–106. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–841. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–842. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.93E+03	-4.64E+04	1.01E+04	-4.63E+04	1.01E+04	-2.42E+06	9.59E+05
1/20	-7.15E+04	-3.56E+05	8.37E+04	-3.58E+05	8.35E+04	-5.73E+06	3.10E+06
1/15	3.60E+04	-5.51E+05	8.03E+05	-5.40E+05	7.81E+05	-8.63E+06	1.12E+07
1/10	-9.76E+08	-1.59E+11	2.55E+06	-4.02E+10	1.74E+09	-3.92E+11	2.72E+10

Table R–843. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.04E+04	-2.13E+04	2.35E+04	-2.12E+04	2.35E+04	-1.89E+06	7.86E+05
1/20	-4.47E+04	-3.25E+05	1.12E+05	-3.24E+05	1.11E+05	-5.59E+06	3.12E+06
1/15	1.01E+05	-4.79E+05	9.61E+05	-4.79E+05	8.98E+05	-8.69E+06	1.20E+07
1/10	3.83E+05	-1.55E+06	2.10E+06	-1.44E+06	2.07E+06	-1.83E+07	1.69E+07

Table R–844. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–845. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.16E+03	-3.89E+04	7.44E+03	-3.89E+04	7.43E+03	-1.96E+06	8.15E+05
1/20	-5.91E+04	-3.36E+05	9.58E+04	-3.36E+05	9.57E+04	-5.54E+06	3.10E+06
1/15	8.53E+04	-4.92E+05	9.06E+05	-4.92E+05	8.98E+05	-8.65E+06	1.22E+07
1/10	3.45E+05	-1.59E+06	2.04E+06	-1.51E+06	2.04E+06	-1.85E+07	1.70E+07

Table R–846. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.16E+03	-3.89E+04	7.44E+03	-3.89E+04	7.43E+03	-1.96E+06	8.15E+05
1/20	-5.91E+04	-3.36E+05	9.58E+04	-3.36E+05	9.57E+04	-5.54E+06	3.10E+06
1/15	8.53E+04	-4.92E+05	9.06E+05	-4.92E+05	8.98E+05	-8.65E+06	1.22E+07
1/10	3.45E+05	-1.59E+06	2.04E+06	-1.51E+06	2.04E+06	-1.85E+07	1.70E+07

Table R–847. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–848. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.72E+03	-2.28E+04	5.47E+03	-2.20E+04	5.18E+03	-1.10E+06	5.34E+05
1/20	-1.81E+05	-3.24E+05	-1.02E+05	-3.20E+05	-1.03E+05	-2.78E+06	1.56E+06
1/15	-1.73E+05	-4.80E+05	7.76E+03	-4.75E+05	6.11E+03	-4.53E+06	2.69E+06
1/10	—	—	—	—	—	—	—

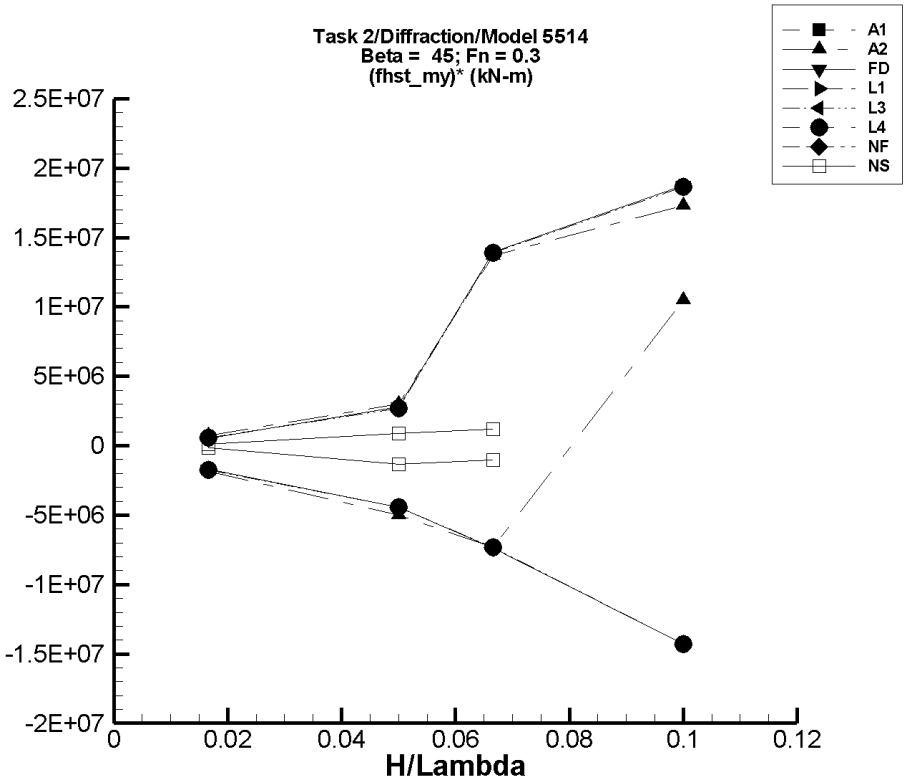

Figure R–107. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–849. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–850. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.35E+03	-4.71E+04	5.51E+03	-3.73E+04	5.36E+03	-1.86E+06	7.03E+05
1/20	-7.39E+04	-3.32E+05	7.54E+04	-3.23E+05	7.49E+04	-4.98E+06	2.97E+06
1/15	4.26E+04	-4.51E+05	9.58E+05	-4.46E+05	9.54E+05	-7.33E+06	1.37E+07
1/10	-1.72E+06	-7.10E+05	6.28E+03	-6.67E+05	1.38E+04	1.05E+07	1.73E+07

Table R–851. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_y^{hst} Min. (kN-m)	Unfiltered M_y^{hst} Max. (kN-m)	Filtered M_y^{hst} Min. (kN-m)	Filtered M_y^{hst} Max. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	1.00E+04	-1.83E+04	1.91E+04	-1.80E+04	1.91E+04	-1.68E+06	5.46E+05
1/20	-4.48E+04	-2.69E+05	9.43E+04	-2.68E+05	9.39E+04	-4.46E+06	2.77E+06
1/15	1.07E+05	-3.89E+05	1.04E+06	-3.86E+05	1.04E+06	-7.39E+06	1.40E+07
1/10	3.53E+05	-1.09E+06	2.25E+06	-1.07E+06	2.23E+06	-1.43E+07	1.88E+07

Table R–852. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_y^{hst} Min. (kN-m)	Unfiltered M_y^{hst} Max. (kN-m)	Filtered M_y^{hst} Min. (kN-m)	Filtered M_y^{hst} Max. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–853. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.57E+03	-3.60E+04	3.08E+03	-3.59E+04	3.08E+03	-1.76E+06	5.79E+05
1/20	-5.87E+04	-2.80E+05	7.64E+04	-2.80E+05	7.62E+04	-4.43E+06	2.70E+06
1/15	8.80E+04	-4.00E+05	1.02E+06	-3.99E+05	1.01E+06	-7.31E+06	1.39E+07
1/10	3.26E+05	-1.15E+06	2.21E+06	-1.10E+06	2.19E+06	-1.43E+07	1.86E+07

Table R–854. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.57E+03	-3.60E+04	3.08E+03	-3.59E+04	3.08E+03	-1.76E+06	5.79E+05
1/20	-5.87E+04	-2.80E+05	7.64E+04	-2.80E+05	7.62E+04	-4.43E+06	2.70E+06
1/15	8.80E+04	-4.00E+05	1.02E+06	-3.99E+05	1.01E+06	-7.31E+06	1.39E+07
1/10	3.26E+05	-1.15E+06	2.21E+06	-1.10E+06	2.19E+06	-1.43E+07	1.86E+07

Table R–855. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–856. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-1.58E+03	-4.27E+03	221.	-4.18E+03	159.	-1.56E+05	1.04E+05
1/20	-8.05E+04	-1.53E+05	-3.52E+04	-1.49E+05	-3.61E+04	-1.36E+06	8.87E+05
1/15	-1.80E+05	-2.52E+05	-9.74E+04	-2.50E+05	-9.86E+04	-1.05E+06	1.22E+06
1/10	—	—	—	—	—	—	—

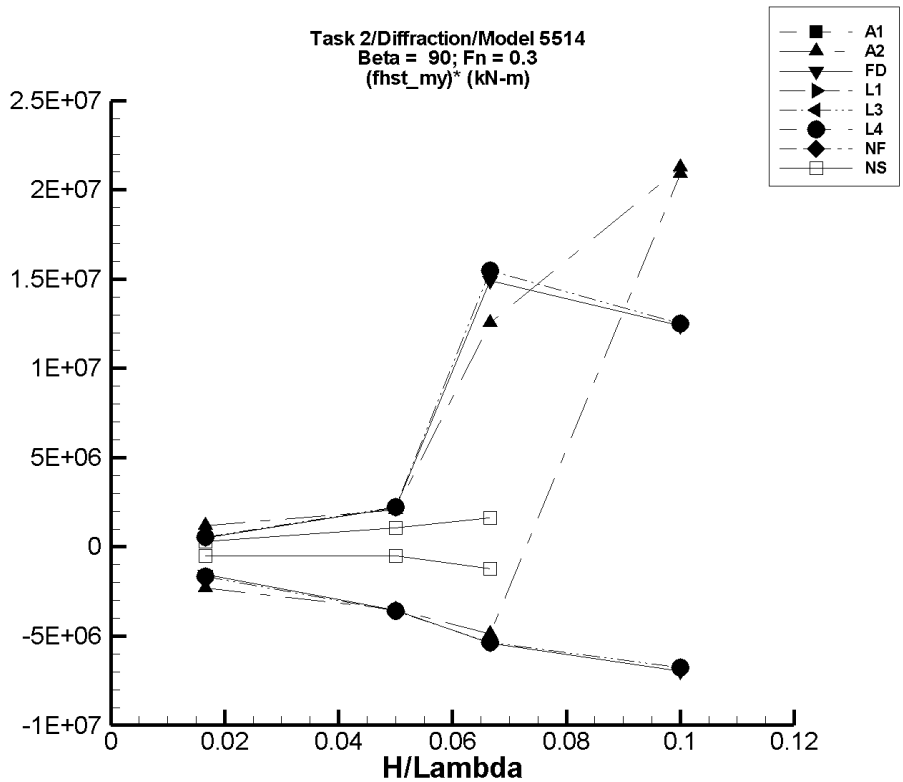

Figure R–108. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–857. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–858. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.36E+03	-4.70E+04	1.31E+04	-4.50E+04	1.32E+04	-2.32E+06	1.17E+06
1/20	-6.66E+04	-2.42E+05	3.42E+05	-2.42E+05	3.75E+04	-3.51E+06	2.08E+06
1/15	3.85E+04	-2.88E+05	1.01E+06	-2.86E+05	8.76E+05	-4.87E+06	1.26E+07
1/10	-6.40E+05	1.45E+06	1.49E+06	1.45E+06	1.49E+06	2.09E+07	2.13E+07

Table R–859. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.96E+03	-1.71E+04	1.84E+04	-1.58E+04	1.83E+04	-1.55E+06	4.99E+05
1/20	-4.59E+04	-2.25E+05	6.45E+04	-2.23E+05	6.32E+04	-3.54E+06	2.18E+06
1/15	9.02E+04	-2.70E+05	1.18E+06	-2.69E+05	1.09E+06	-5.38E+06	1.49E+07
1/10	3.66E+05	-3.44E+05	1.69E+06	-3.33E+05	1.61E+06	-6.99E+06	1.24E+07

Table R–860. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–861. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.69E+03	-3.46E+04	2.45E+03	-3.42E+04	2.43E+03	-1.65E+06	5.47E+05
1/20	-6.03E+04	-2.40E+05	5.16E+04	-2.39E+05	5.11E+04	-3.58E+06	2.23E+06
1/15	7.37E+04	-2.84E+05	1.14E+06	-2.84E+05	1.11E+06	-5.36E+06	1.55E+07
1/10	3.36E+05	-3.40E+05	1.68E+06	-3.39E+05	1.59E+06	-6.75E+06	1.25E+07

Table R–862. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.69E+03	-3.46E+04	2.45E+03	-3.42E+04	2.43E+03	-1.65E+06	5.47E+05
1/20	-6.03E+04	-2.40E+05	5.16E+04	-2.39E+05	5.11E+04	-3.58E+06	2.23E+06
1/15	7.37E+04	-2.84E+05	1.14E+06	-2.84E+05	1.11E+06	-5.36E+06	1.55E+07
1/10	3.36E+05	-3.40E+05	1.68E+06	-3.39E+05	1.59E+06	-6.75E+06	1.25E+07

Table R–863. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–864. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-2.99E+03	-1.19E+04	2.34E+03	-1.16E+04	2.22E+03	-5.14E+05	3.12E+05
1/20	-1.81E+05	-2.08E+05	-1.27E+05	-2.07E+05	-1.29E+05	-5.13E+05	1.05E+06
1/15	-1.75E+05	-2.58E+05	-6.54E+04	-2.58E+05	-6.70E+04	-1.23E+06	1.62E+06
1/10	—	—	—	—	—	—	—

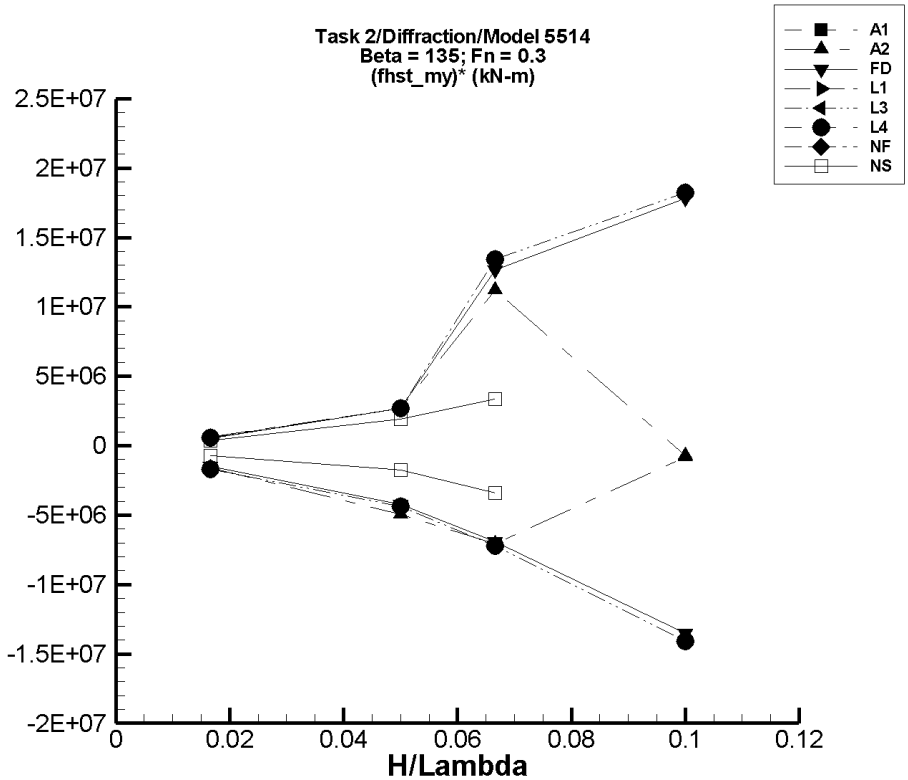

Figure R–109. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–865. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–866. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.41E+03	-3.78E+04	5.50E+03	-3.31E+04	3.82E+03	-1.60E+06	6.14E+05
1/20	-6.47E+04	-3.21E+05	2.08E+05	-3.13E+05	7.01E+04	-4.96E+06	2.70E+06
1/15	4.70E+04	-4.50E+05	9.52E+05	-4.24E+05	7.95E+05	-7.07E+06	1.12E+07
1/10	-6.32E+05	-7.13E+05	-7.03E+05	-7.13E+05	-7.03E+05	-8.05E+05	-7.07E+05

Table R–867. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_y^{hst} Min. (kN-m)	Unfiltered M_y^{hst} Max. (kN-m)	Filtered M_y^{hst} Min. (kN-m)	Filtered M_y^{hst} Max. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	9.88E+03	-1.83E+04	1.91E+04	-1.50E+04	1.89E+04	-1.50E+06	5.43E+05
1/20	-4.54E+04	-2.68E+05	9.43E+04	-2.58E+05	8.99E+04	-4.25E+06	2.70E+06
1/15	9.97E+04	-3.89E+05	1.04E+06	-3.62E+05	9.44E+05	-6.93E+06	1.27E+07
1/10	3.68E+05	-1.08E+06	2.24E+06	-9.83E+05	2.15E+06	-1.35E+07	1.78E+07

Table R–868. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_y^{hst} Min. (kN-m)	Unfiltered M_y^{hst} Max. (kN-m)	Filtered M_y^{hst} Min. (kN-m)	Filtered M_y^{hst} Max. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_y^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–869. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.62E+03	-3.60E+04	3.08E+03	-3.49E+04	3.02E+03	-1.69E+06	5.78E+05
1/20	-5.83E+04	-2.80E+05	7.64E+04	-2.78E+05	7.49E+04	-4.39E+06	2.66E+06
1/15	8.74E+04	-4.00E+05	1.02E+06	-3.94E+05	9.84E+05	-7.22E+06	1.34E+07
1/10	3.34E+05	-1.14E+06	2.19E+06	-1.07E+06	2.16E+06	-1.41E+07	1.82E+07

Table R–870. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	**Unfiltered** M_y^{hst}		**Filtered** M_y^{hst}		**Filtered** $\left(M_y^{\text{hst}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.62E+03	-3.60E+04	3.08E+03	-3.49E+04	3.02E+03	-1.69E+06	5.78E+05
1/20	-5.83E+04	-2.80E+05	7.64E+04	-2.78E+05	7.49E+04	-4.39E+06	2.66E+06
1/15	8.74E+04	-4.00E+05	1.02E+06	-3.94E+05	9.84E+05	-7.22E+06	1.34E+07
1/10	3.34E+05	-1.14E+06	2.19E+06	-1.07E+06	2.16E+06	-1.41E+07	1.82E+07

Table R–871. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–872. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.65E+03	-1.66E+04	2.76E+03	-1.60E+04	2.65E+03	-7.42E+05	3.78E+05
1/20	-1.81E+05	-2.72E+05	-8.12E+04	-2.69E+05	-8.37E+04	-1.77E+06	1.94E+06
1/15	-1.72E+05	-4.05E+05	5.49E+04	-4.00E+05	5.18E+04	-3.41E+06	3.36E+06
1/10	—	—	—	—	—	—	—

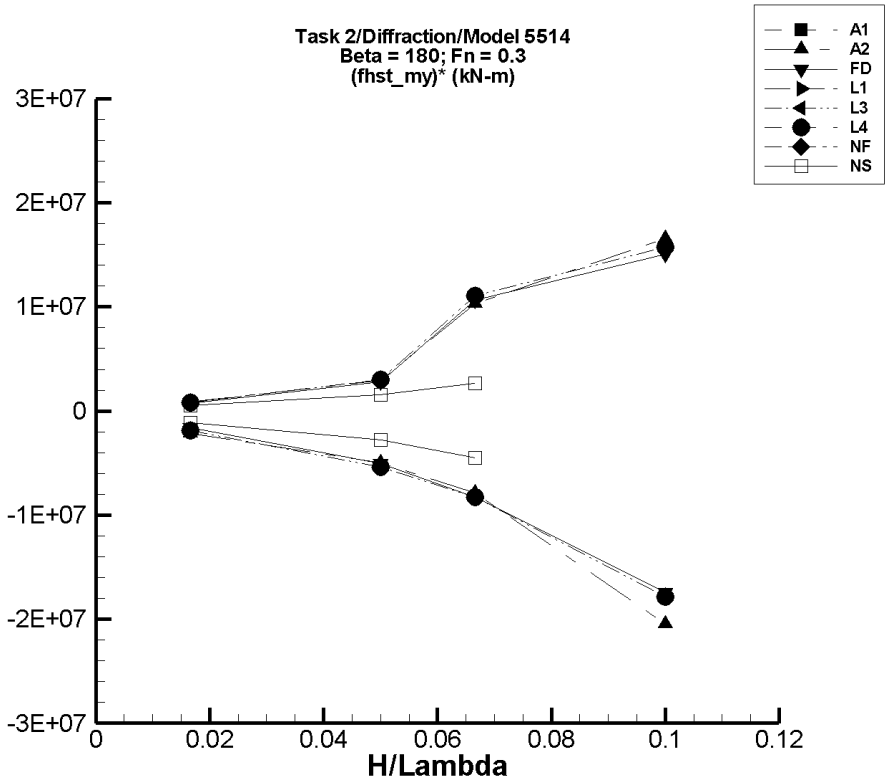

Figure R–110. Minimum and Maximum of $(M_y^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–873. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–874. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.89E+03	-5.87E+04	1.01E+04	-4.15E+04	8.15E+03	-2.14E+06	8.42E+05
1/20	-7.58E+04	-3.55E+05	8.36E+04	-3.24E+05	7.09E+04	-4.96E+06	2.93E+06
1/15	3.75E+04	-5.48E+05	7.99E+05	-4.88E+05	7.26E+05	-7.89E+06	1.03E+07
1/10	5.90E+05	-1.46E+06	2.49E+06	-1.46E+06	2.24E+06	-2.05E+07	1.65E+07

Table R–875. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.02E+04	-2.13E+04	2.35E+04	-1.69E+04	2.25E+04	-1.62E+06	7.38E+05
1/20	-4.51E+04	-3.25E+05	1.11E+05	-2.99E+05	9.52E+04	-5.08E+06	2.81E+06
1/15	1.03E+05	-4.79E+05	9.34E+05	-4.48E+05	8.13E+05	-8.26E+06	1.06E+07
1/10	3.68E+05	-1.43E+06	2.09E+06	-1.38E+06	1.88E+06	-1.75E+07	1.51E+07

Table R–876. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–877. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.85E+03	-3.89E+04	7.43E+03	-3.72E+04	6.99E+03	-1.88E+06	7.70E+05
1/20	-6.10E+04	-3.36E+05	9.58E+04	-3.31E+05	8.81E+04	-5.39E+06	2.98E+06
1/15	7.16E+04	-4.92E+05	9.03E+05	-4.79E+05	8.11E+05	-8.26E+06	1.11E+07
1/10	3.45E+05	-1.52E+06	2.04E+06	-1.44E+06	1.92E+06	-1.79E+07	1.57E+07

Table R–878. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-5.85E+03	-3.89E+04	7.43E+03	-3.72E+04	6.99E+03	-1.88E+06	7.70E+05
1/20	-6.10E+04	-3.36E+05	9.58E+04	-3.31E+05	8.81E+04	-5.39E+06	2.98E+06
1/15	7.16E+04	-4.92E+05	9.03E+05	-4.79E+05	8.11E+05	-8.26E+06	1.11E+07
1/10	3.45E+05	-1.52E+06	2.04E+06	-1.44E+06	1.92E+06	-1.79E+07	1.57E+07

Table R–879. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–880. Minimum and Maximum of M_y^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
	$\langle M_y^{\text{hst}} \rangle$	Unfiltered M_y^{hst}		Filtered M_y^{hst}		Filtered $\left(M_y^{\text{hst}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-3.81E+03	-2.28E+04	5.47E+03	-2.20E+04	5.17E+03	-1.09E+06	5.39E+05
1/20	-1.81E+05	-3.24E+05	-1.02E+05	-3.20E+05	-1.03E+05	-2.78E+06	1.56E+06
1/15	-1.73E+05	-4.80E+05	7.76E+03	-4.75E+05	6.15E+03	-4.53E+06	2.69E+06
1/10	—	—	—	—	—	—	—

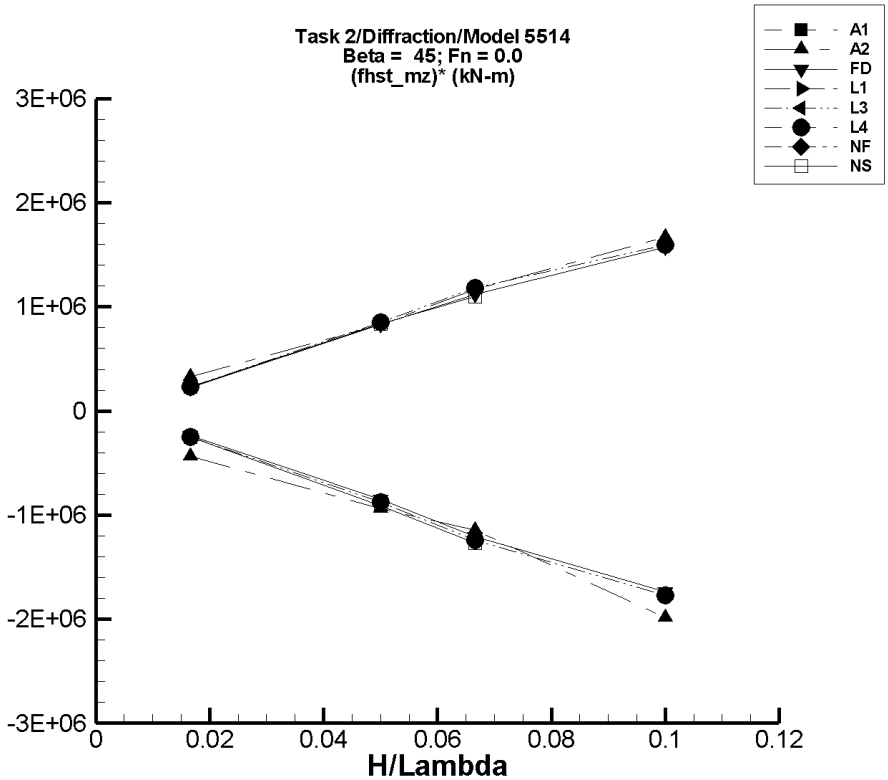

Figure R–111. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–881. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–882. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-12.7	-7.79E+03	5.83E+03	-7.33E+03	5.43E+03	-4.39E+05	3.27E+05
1/20	-841.	-5.51E+04	4.10E+04	-4.76E+04	4.08E+04	-9.36E+05	8.32E+05
1/15	-2.07E+03	-1.30E+05	7.85E+04	-7.83E+04	7.56E+04	-1.14E+06	1.16E+06
1/10	70.9	-5.93E+05	5.91E+05	-1.99E+05	1.67E+05	-1.99E+06	1.67E+06

Table R–883. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-16.8	-4.09E+03	3.89E+03	-3.93E+03	3.75E+03	-2.35E+05	2.26E+05
1/20	-624.	-4.47E+04	4.31E+04	-4.30E+04	4.09E+04	-8.47E+05	8.30E+05
1/15	-942.	-8.40E+04	7.68E+04	-8.16E+04	7.35E+04	-1.21E+06	1.12E+06
1/10	-357.	-1.81E+05	1.63E+05	-1.74E+05	1.57E+05	-1.74E+06	1.58E+06

Table R–884. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–885. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-8.76	-4.19E+03	3.94E+03	-4.14E+03	3.87E+03	-2.48E+05	2.32E+05
1/20	-395.	-4.49E+04	4.25E+04	-4.42E+04	4.20E+04	-8.75E+05	8.48E+05
1/15	-525.	-8.44E+04	7.97E+04	-8.34E+04	7.83E+04	-1.24E+06	1.18E+06
1/10	-328.	-1.81E+05	1.61E+05	-1.77E+05	1.59E+05	-1.77E+06	1.60E+06

Table R–886. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-8.76	-4.19E+03	3.94E+03	-4.14E+03	3.87E+03	-2.48E+05	2.32E+05
1/20	-395.	-4.49E+04	4.25E+04	-4.42E+04	4.20E+04	-8.75E+05	8.48E+05
1/15	-525.	-8.44E+04	7.97E+04	-8.34E+04	7.83E+04	-1.24E+06	1.18E+06
1/10	-328.	-1.81E+05	1.61E+05	-1.77E+05	1.59E+05	-1.77E+06	1.60E+06

Table R–887. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–888. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.54	-4.14E+03	4.02E+03	-4.14E+03	3.85E+03	-2.49E+05	2.31E+05
1/20	-21.9	-4.73E+04	4.22E+04	-4.57E+04	4.19E+04	-9.14E+05	8.38E+05
1/15	-69.2	-8.60E+04	7.50E+04	-8.45E+04	7.31E+04	-1.27E+06	1.10E+06
1/10	—	—	—	—	—	—	—

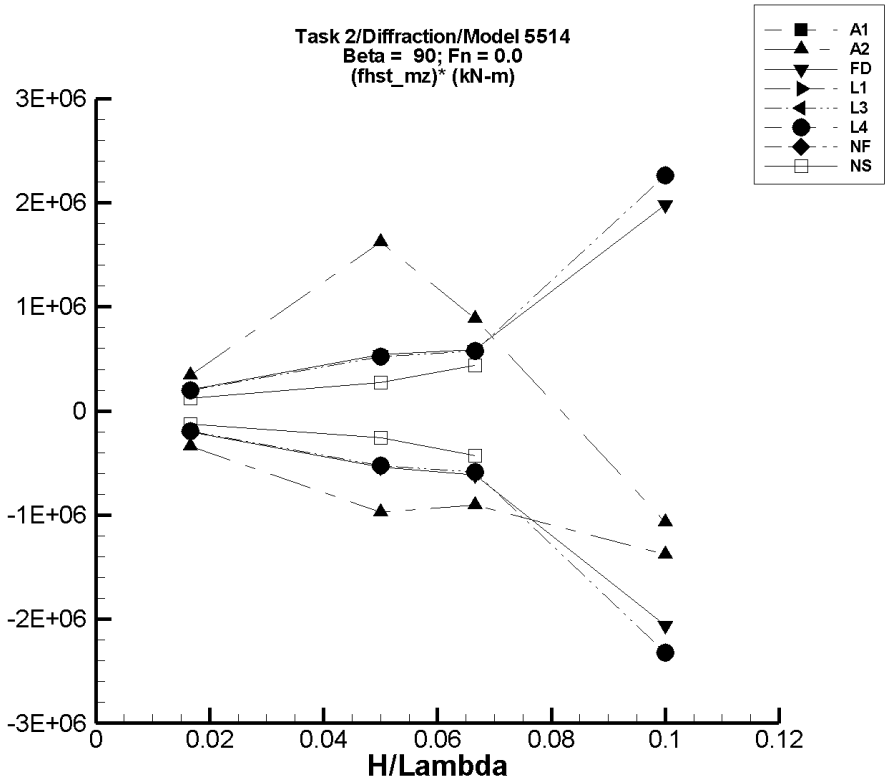

Figure R–112. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–889. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–890. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-88.3	-1.13E+04	5.90E+03	-5.72E+03	5.57E+03	-3.38E+05	3.40E+05
1/20	4.53E+03	-1.19E+05	5.78E+05	-4.43E+04	8.55E+04	-9.76E+05	1.62E+06
1/15	1.10E+03	-1.02E+05	1.17E+05	-5.93E+04	5.99E+04	-9.05E+05	8.82E+05
1/10	6.49E+04	-7.28E+04	-4.21E+04	-7.28E+04	-4.21E+04	-1.38E+06	-1.07E+06

Table R–891. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-1.11	-3.59E+03	3.59E+03	-3.39E+03	3.39E+03	-2.03E+05	2.04E+05
1/20	-137.	-2.84E+04	2.83E+04	-2.70E+04	2.71E+04	-5.37E+05	5.44E+05
1/15	10.5	-4.55E+04	4.56E+04	-4.09E+04	3.95E+04	-6.13E+05	5.92E+05
1/10	3.79E+03	-2.37E+05	2.38E+05	-2.02E+05	2.02E+05	-2.06E+06	1.98E+06

Table R–892. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–893. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.20	-3.35E+03	3.34E+03	-3.28E+03	3.27E+03	-1.97E+05	1.96E+05
1/20	69.1	-2.65E+04	2.65E+04	-2.62E+04	2.62E+04	-5.25E+05	5.22E+05
1/15	372.	-4.10E+04	4.09E+04	-3.87E+04	3.87E+04	-5.86E+05	5.75E+05
1/10	3.00E+03	-2.49E+05	2.49E+05	-2.29E+05	2.29E+05	-2.32E+06	2.26E+06

Table R–894. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.20	-3.35E+03	3.34E+03	-3.28E+03	3.27E+03	-1.97E+05	1.96E+05
1/20	69.1	-2.65E+04	2.65E+04	-2.62E+04	2.62E+04	-5.25E+05	5.22E+05
1/15	372.	-4.10E+04	4.09E+04	-3.87E+04	3.87E+04	-5.86E+05	5.75E+05
1/10	3.00E+03	-2.49E+05	2.49E+05	-2.29E+05	2.29E+05	-2.32E+06	2.26E+06

Table R–895. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–896. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.55	-2.14E+03	2.15E+03	-2.05E+03	2.07E+03	-1.23E+05	1.24E+05
1/20	64.3	-1.36E+04	1.43E+04	-1.30E+04	1.36E+04	-2.60E+05	2.71E+05
1/15	236.	-2.91E+04	3.04E+04	-2.83E+04	2.95E+04	-4.27E+05	4.39E+05
1/10	—	—	—	—	—	—	—

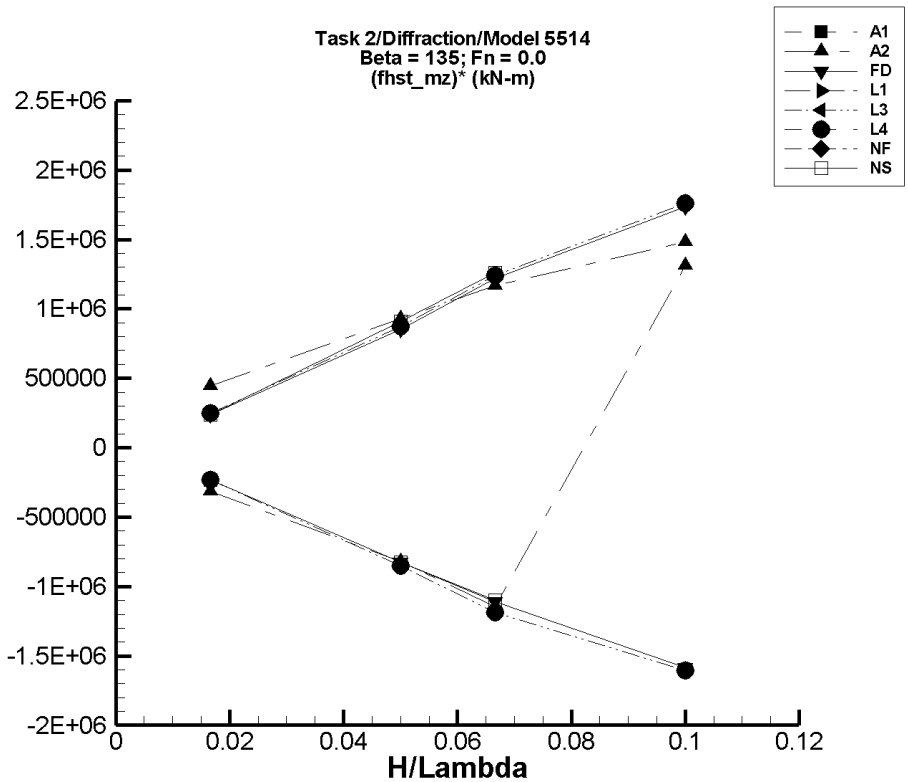

Figure R–113. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–897. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–898. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	-136.	-1.09E+04	7.79E+03	-5.36E+03	7.31E+03	-3.13E+05	4.47E+05
1/20	1.14E+03	-4.10E+04	6.66E+04	-3.99E+04	4.76E+04	-8.20E+05	9.29E+05
1/15	1.01E+03	-7.85E+04	8.13E+04	-7.53E+04	7.88E+04	-1.14E+06	1.17E+06
1/10	-2.77E+05	-1.45E+05	-1.28E+05	-1.45E+05	-1.28E+05	1.31E+06	1.48E+06

Table R–899. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	4.18	-3.91E+03	4.09E+03	-3.84E+03	3.93E+03	-2.30E+05	2.35E+05
1/20	418.	-4.30E+04	4.46E+04	-4.09E+04	4.29E+04	-8.27E+05	8.51E+05
1/15	443.	-7.67E+04	8.40E+04	-7.36E+04	8.15E+04	-1.11E+06	1.22E+06
1/10	957.	-1.63E+05	1.81E+05	-1.57E+05	1.74E+05	-1.58E+06	1.73E+06

Table R–900. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–901. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.58	-3.94E+03	4.19E+03	-3.89E+03	4.14E+03	-2.34E+05	2.48E+05
1/20	502.	-4.26E+04	4.49E+04	-4.20E+04	4.41E+04	-8.50E+05	8.73E+05
1/15	729.	-7.97E+04	8.42E+04	-7.83E+04	8.34E+04	-1.19E+06	1.24E+06
1/10	1.06E+03	-1.61E+05	1.81E+05	-1.59E+05	1.77E+05	-1.60E+06	1.76E+06

Table R–902. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.58	-3.94E+03	4.19E+03	-3.89E+03	4.14E+03	-2.34E+05	2.48E+05
1/20	502.	-4.26E+04	4.49E+04	-4.20E+04	4.41E+04	-8.50E+05	8.73E+05
1/15	729.	-7.97E+04	8.42E+04	-7.83E+04	8.34E+04	-1.19E+06	1.24E+06
1/10	1.06E+03	-1.61E+05	1.81E+05	-1.59E+05	1.77E+05	-1.60E+06	1.76E+06

Table R–903. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–904. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	13.0	-4.04E+03	4.13E+03	-3.87E+03	3.99E+03	-2.33E+05	2.38E+05
1/20	219.	-4.28E+04	4.73E+04	-4.11E+04	4.57E+04	-8.26E+05	9.10E+05
1/15	543.	-7.46E+04	8.60E+04	-7.28E+04	8.45E+04	-1.10E+06	1.26E+06
1/10	—	—	—	—	—	—	—

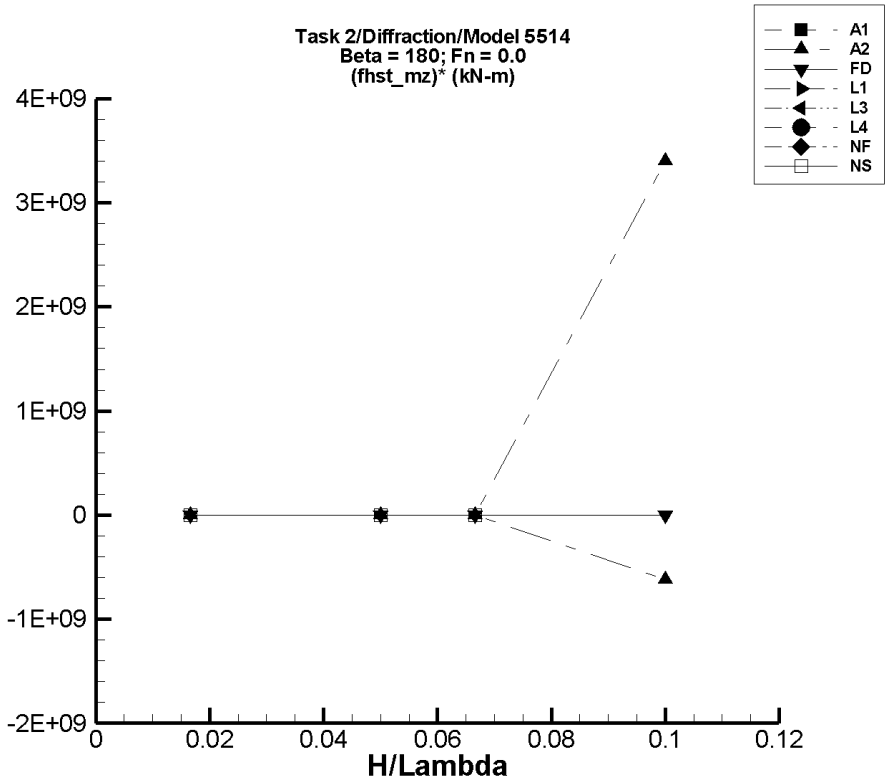

Figure R–114. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–905. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–906. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.36E-04	-6.47E-02	4.01E-02	-3.57E-03	1.08E-02	-0.194	0.670
1/20	-459.	-7.79E+04	65.8	-1.04E+04	888.	-1.98E+05	2.70E+04
1/15	-364.	-5.39E+04	3.02E+03	-8.40E+03	2.80E+03	-1.21E+05	4.75E+04
1/10	3.06E+07	-1.65E+05	2.78E+09	-3.17E+07	3.71E+08	-6.23E+08	3.40E+09

Table R–907. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.05E-03	-1.34E-03	9.22E-03	-2.09E-04	2.61E-03	-7.57E-02	9.35E-02
1/20	3.38E-04	-8.27E-03	5.12E-02	-5.02E-03	9.41E-03	-0.107	0.182
1/15	1.01E-03	-2.67E-02	0.111	-4.81E-03	2.33E-02	-8.73E-02	0.334
1/10	3.58E-03	-6.41E-03	0.173	-2.41E-03	2.34E-02	-5.98E-02	0.198

Table R–908. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–909. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–910. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–911. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–912. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.77E-04	-6.41E-02	5.28E-02	-1.59E-02	2.09E-02	-0.972	1.24
1/20	1.45E-03	-7.57E-02	0.113	-2.00E-02	4.45E-02	-0.428	0.860
1/15	3.17E-03	-0.100	0.102	-1.96E-02	4.19E-02	-0.341	0.582
1/10	—	—	—	—	—	—	—

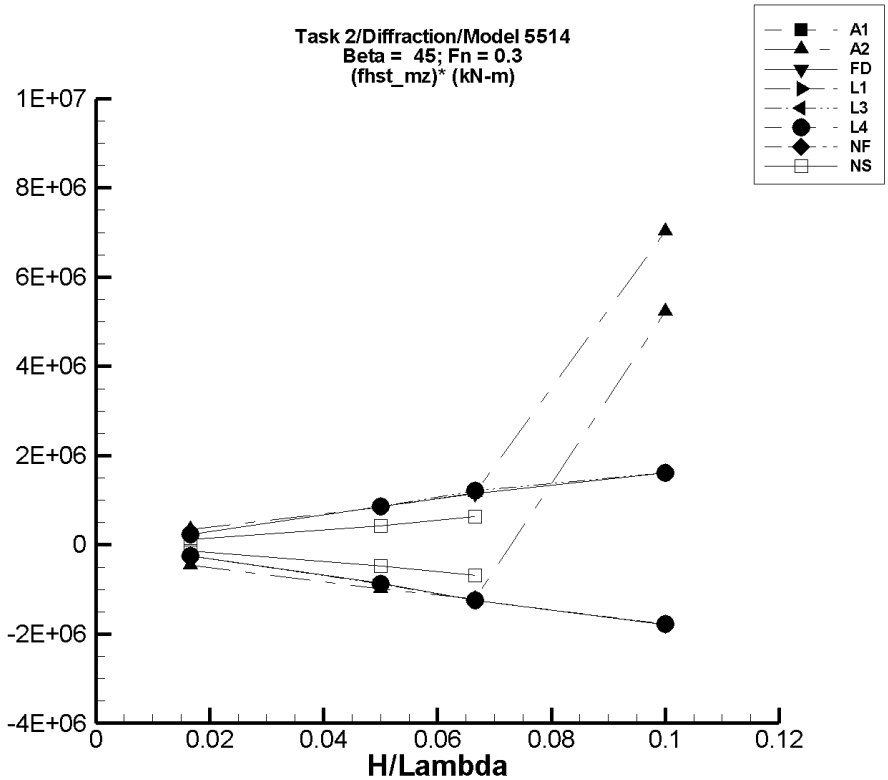

Figure R–115. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–913. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–914. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-51.7	-7.79E+03	5.83E+03	-7.69E+03	5.74E+03	-4.58E+05	3.48E+05
1/20	-334.	-6.64E+04	5.64E+04	-4.97E+04	4.19E+04	-9.88E+05	8.46E+05
1/15	-225.	-1.30E+05	7.85E+04	-8.08E+04	7.77E+04	-1.21E+06	1.17E+06
1/10	-5.38E+05	-1.79E+04	1.72E+05	-1.48E+04	1.65E+05	5.23E+06	7.02E+06

Table R–915. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-13.1	-4.09E+03	3.90E+03	-4.07E+03	3.86E+03	-2.43E+05	2.32E+05
1/20	-506.	-4.46E+04	4.29E+04	-4.37E+04	4.24E+04	-8.64E+05	8.58E+05
1/15	-694.	-8.40E+04	7.70E+04	-8.33E+04	7.60E+04	-1.24E+06	1.15E+06
1/10	-551.	-1.81E+05	1.63E+05	-1.80E+05	1.62E+05	-1.79E+06	1.62E+06

Table R–916. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–917. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-17.1	-4.20E+03	3.94E+03	-4.18E+03	3.93E+03	-2.50E+05	2.37E+05
1/20	-644.	-4.49E+04	4.26E+04	-4.46E+04	4.25E+04	-8.79E+05	8.62E+05
1/15	-1.16E+03	-8.44E+04	7.97E+04	-8.39E+04	7.94E+04	-1.24E+06	1.21E+06
1/10	-1.02E+03	-1.81E+05	1.61E+05	-1.79E+05	1.61E+05	-1.78E+06	1.62E+06

Table R–918. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-17.1	-4.20E+03	3.94E+03	-4.18E+03	3.93E+03	-2.50E+05	2.37E+05
1/20	-644.	-4.49E+04	4.26E+04	-4.46E+04	4.25E+04	-8.79E+05	8.62E+05
1/15	-1.16E+03	-8.44E+04	7.97E+04	-8.39E+04	7.94E+04	-1.24E+06	1.21E+06
1/10	-1.02E+03	-1.81E+05	1.61E+05	-1.79E+05	1.61E+05	-1.78E+06	1.62E+06

Table R–919. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–920. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-0.108	-2.16E+03	2.12E+03	-2.17E+03	2.03E+03	-1.30E+05	1.22E+05
1/20	30.3	-2.39E+04	2.25E+04	-2.38E+04	2.16E+04	-4.77E+05	4.31E+05
1/15	-41.7	-4.65E+04	4.21E+04	-4.55E+04	4.23E+04	-6.83E+05	6.34E+05
1/10	—	—	—	—	—	—	—

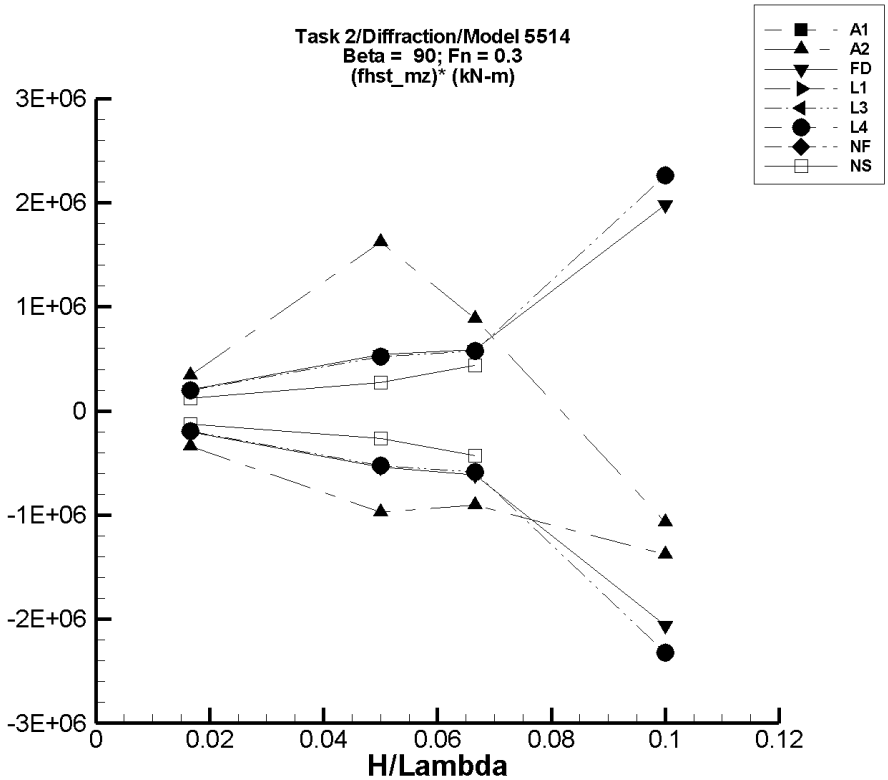

Figure R–116. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–921. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–922. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-88.3	-1.13E+04	5.90E+03	-5.72E+03	5.57E+03	-3.38E+05	3.40E+05
1/20	4.53E+03	-1.19E+05	5.78E+05	-4.43E+04	8.55E+04	-9.76E+05	1.62E+06
1/15	1.10E+03	-1.02E+05	1.17E+05	-5.93E+04	5.99E+04	-9.05E+05	8.82E+05
1/10	6.49E+04	-7.28E+04	-4.21E+04	-7.28E+04	-4.21E+04	-1.38E+06	-1.07E+06

Table R–923. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{hst}}\right)^*$ Max. (kN-m)
1/60	-1.13	-3.59E+03	3.59E+03	-3.39E+03	3.39E+03	-2.03E+05	2.04E+05
1/20	-137.	-2.84E+04	2.83E+04	-2.70E+04	2.71E+04	-5.37E+05	5.44E+05
1/15	10.3	-4.55E+04	4.56E+04	-4.09E+04	3.95E+04	-6.13E+05	5.92E+05
1/10	3.79E+03	-2.37E+05	2.38E+05	-2.02E+05	2.02E+05	-2.06E+06	1.98E+06

Table R–924. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–925. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.06	-3.35E+03	3.34E+03	-3.28E+03	3.27E+03	-1.97E+05	1.96E+05
1/20	69.0	-2.65E+04	2.65E+04	-2.62E+04	2.62E+04	-5.25E+05	5.22E+05
1/15	372.	-4.10E+04	4.09E+04	-3.87E+04	3.87E+04	-5.86E+05	5.75E+05
1/10	3.00E+03	-2.49E+05	2.49E+05	-2.29E+05	2.29E+05	-2.32E+06	2.26E+06

Table R–926. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.06	-3.35E+03	3.34E+03	-3.28E+03	3.27E+03	-1.97E+05	1.96E+05
1/20	69.0	-2.65E+04	2.65E+04	-2.62E+04	2.62E+04	-5.25E+05	5.22E+05
1/15	372.	-4.10E+04	4.09E+04	-3.87E+04	3.87E+04	-5.86E+05	5.75E+05
1/10	3.00E+03	-2.49E+05	2.49E+05	-2.29E+05	2.29E+05	-2.32E+06	2.26E+06

Table R–927. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–928. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.57	-2.14E+03	2.16E+03	-2.05E+03	2.07E+03	-1.24E+05	1.24E+05
1/20	58.7	-1.36E+04	1.43E+04	-1.30E+04	1.36E+04	-2.61E+05	2.72E+05
1/15	236.	-2.91E+04	3.04E+04	-2.83E+04	2.95E+04	-4.27E+05	4.39E+05
1/10	—	—	—	—	—	—	—

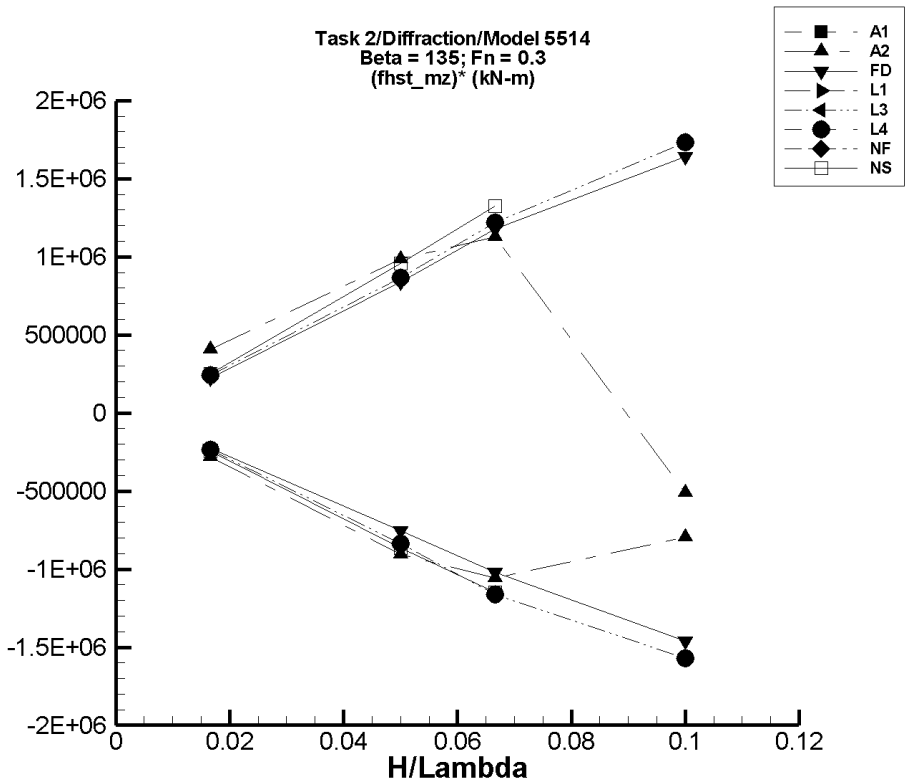

Figure R–117. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–929. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–930. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	-77.6	-5.83E+03	7.78E+03	-4.79E+03	6.71E+03	-2.83E+05	4.07E+05
1/20	-4.71E+03	-4.43E+05	6.62E+04	-5.01E+04	4.45E+04	-9.07E+05	9.83E+05
1/15	-181.	-1.24E+05	8.11E+04	-7.07E+04	7.49E+04	-1.06E+06	1.13E+06
1/10	-6.19E+04	-1.42E+05	-1.13E+05	-1.42E+05	-1.13E+05	-7.97E+05	-5.12E+05

Table R–931. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ Mean (kN-m)	Unfiltered M_z^{hst} Min. (kN-m)	Unfiltered M_z^{hst} Max. (kN-m)	Filtered M_z^{hst} Min. (kN-m)	Filtered M_z^{hst} Max. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{hst}})^*$ Max. (kN-m)
1/60	-1.37	-3.90E+03	4.09E+03	-3.77E+03	3.69E+03	-2.26E+05	2.22E+05
1/20	130.	-4.30E+04	4.46E+04	-3.77E+04	4.20E+04	-7.56E+05	8.36E+05
1/15	129.	-7.69E+04	8.40E+04	-6.78E+04	7.88E+04	-1.02E+06	1.18E+06
1/10	289.	-1.63E+05	1.81E+05	-1.46E+05	1.65E+05	-1.46E+06	1.64E+06

Table R–932. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–933. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	10.6	-3.94E+03	4.19E+03	-3.89E+03	4.04E+03	-2.34E+05	2.42E+05
1/20	491.	-4.26E+04	4.49E+04	-4.13E+04	4.37E+04	-8.35E+05	8.64E+05
1/15	932.	-7.97E+04	8.42E+04	-7.66E+04	8.23E+04	-1.16E+06	1.22E+06
1/10	751.	-1.61E+05	1.80E+05	-1.56E+05	1.74E+05	-1.57E+06	1.73E+06

Table R–934. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	10.6	-3.94E+03	4.19E+03	-3.89E+03	4.04E+03	-2.34E+05	2.42E+05
1/20	491.	-4.26E+04	4.49E+04	-4.13E+04	4.37E+04	-8.35E+05	8.64E+05
1/15	932.	-7.97E+04	8.42E+04	-7.66E+04	8.23E+04	-1.16E+06	1.22E+06
1/10	751.	-1.61E+05	1.80E+05	-1.56E+05	1.74E+05	-1.57E+06	1.73E+06

Table R–935. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–936. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	14.2	-4.25E+03	4.36E+03	-4.08E+03	4.20E+03	-2.45E+05	2.51E+05
1/20	235.	-4.48E+04	4.97E+04	-4.30E+04	4.80E+04	-8.64E+05	9.56E+05
1/15	569.	-7.78E+04	9.04E+04	-7.61E+04	8.89E+04	-1.15E+06	1.32E+06
1/10	—	—	—	—	—	—	—

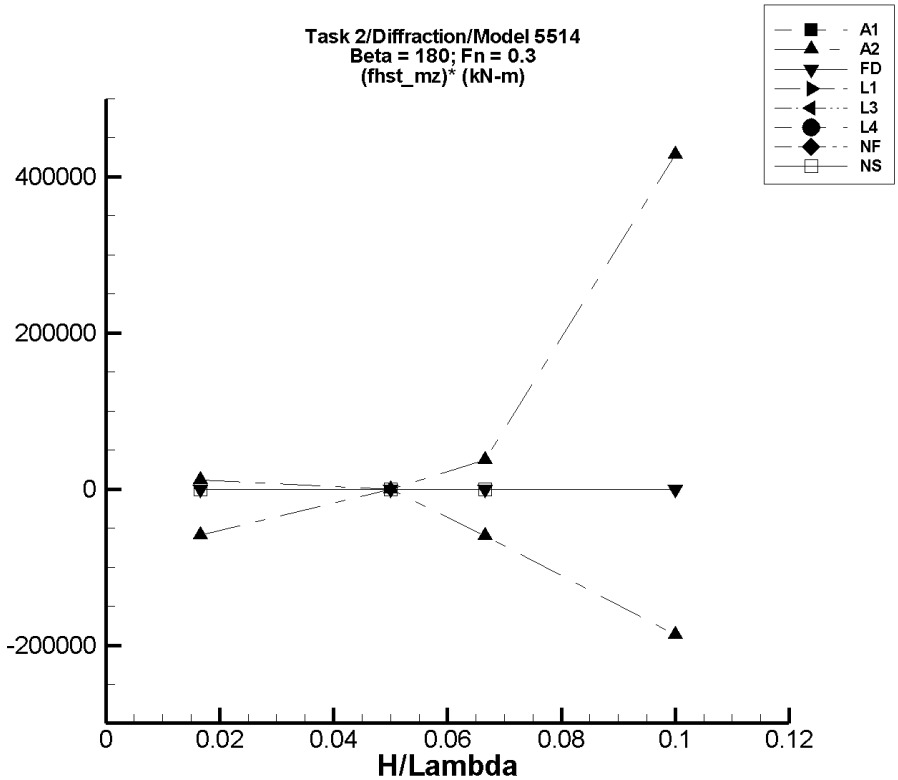

Figure R–118. Minimum and Maximum of $(M_z^{\text{hst}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–937. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–938. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-99.8	-8.19E+03	6.86E-03	-1.09E+03	93.7	-5.95E+04	1.16E+04
1/20	-2.91E-02	-0.992	1.74	-0.154	0.129	-2.50	3.17
1/15	-235.	-3.14E+04	3.02E+03	-4.22E+03	2.23E+03	-5.97E+04	3.70E+04
1/10	6.08E+03	-1.19E+05	1.82E+05	-1.26E+04	4.89E+04	-1.86E+05	4.28E+05

Table R–939. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.08E-02	-0.167	0.100	-0.115	2.71E-02	-5.63	2.87
1/20	-2.72E-03	-0.594	0.358	-0.224	0.135	-4.42	2.76
1/15	-8.30E-03	-0.848	1.02	-0.381	0.231	-5.58	3.59
1/10	-2.76E-02	-2.38	2.31	-0.431	0.544	-4.04	5.71

Table R–940. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–941. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–942. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–943. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–944. Minimum and Maximum of M_z^{hst} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{hst}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{hst} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{hst}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	8.25E-04	-5.32E-02	7.32E-02	-1.73E-02	3.05E-02	-1.09	1.78
1/20	-2.37E-04	-7.92E-02	9.12E-02	-4.11E-02	2.63E-02	-0.818	0.532
1/15	2.27E-04	-9.30E-02	0.105	-3.09E-02	2.67E-02	-0.467	0.397
1/10	—	—	—	—	—	—	—

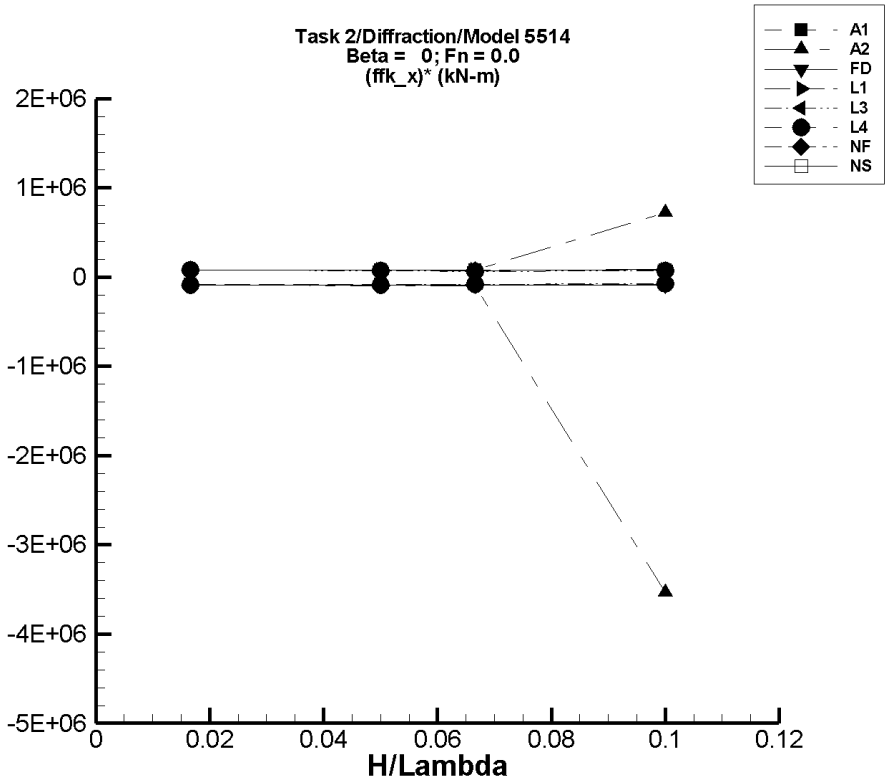

Figure R–119. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–945. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.28	-1.40E+03	1.40E+03	-1.39E+03	1.39E+03	-8.31E+04	8.32E+04
1/20	-3.82	-4.19E+03	4.19E+03	-4.15E+03	4.15E+03	-8.29E+04	8.30E+04
1/15	-5.09	-5.58E+03	5.58E+03	-5.52E+03	5.52E+03	-8.27E+04	8.29E+04
1/10	-7.64	-8.39E+03	8.38E+03	-8.29E+03	8.29E+03	-8.29E+04	8.30E+04

Table R–946. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.97	-1.47E+03	1.36E+03	-1.45E+03	1.34E+03	-8.70E+04	8.05E+04
1/20	7.33	-4.82E+03	4.14E+03	-4.71E+03	4.08E+03	-9.43E+04	8.14E+04
1/15	-59.6	-6.49E+03	5.35E+03	-6.29E+03	5.18E+03	-9.35E+04	7.85E+04
1/10	-3.32E+04	-2.91E+06	1.18E+04	-3.87E+05	3.93E+04	-3.54E+06	7.24E+05

Table R–947. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.02	-1.44E+03	1.33E+03	-1.42E+03	1.32E+03	-8.55E+04	7.92E+04
1/20	15.6	-4.71E+03	4.06E+03	-4.61E+03	4.00E+03	-9.25E+04	7.97E+04
1/15	32.9	-6.33E+03	5.12E+03	-6.15E+03	5.00E+03	-9.27E+04	7.45E+04
1/10	38.4	-8.74E+03	8.95E+03	-8.52E+03	8.68E+03	-8.56E+04	8.65E+04

Table R–948. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.231	-1.38E+03	1.38E+03	-1.38E+03	1.38E+03	-8.26E+04	8.26E+04
1/20	-0.692	-4.15E+03	4.15E+03	-4.13E+03	4.13E+03	-8.26E+04	8.26E+04
1/15	-0.923	-5.53E+03	5.53E+03	-5.51E+03	5.51E+03	-8.26E+04	8.26E+04
1/10	-1.38	-8.30E+03	8.29E+03	-8.26E+03	8.26E+03	-8.26E+04	8.26E+04

Table R–949. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.470	-1.45E+03	1.32E+03	-1.44E+03	1.32E+03	-8.63E+04	7.91E+04
1/20	1.20	-4.46E+03	3.76E+03	-4.42E+03	3.74E+03	-8.85E+04	7.47E+04
1/15	15.3	-5.71E+03	4.48E+03	-5.65E+03	4.44E+03	-8.50E+04	6.64E+04
1/10	5.03	-7.02E+03	7.53E+03	-6.98E+03	7.33E+03	-6.98E+04	7.32E+04

Table R–950. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.470	-1.45E+03	1.32E+03	-1.44E+03	1.32E+03	-8.63E+04	7.91E+04
1/20	1.20	-4.46E+03	3.76E+03	-4.42E+03	3.74E+03	-8.85E+04	7.47E+04
1/15	15.3	-5.71E+03	4.48E+03	-5.65E+03	4.44E+03	-8.50E+04	6.64E+04
1/10	5.03	-7.02E+03	7.53E+03	-6.98E+03	7.33E+03	-6.98E+04	7.32E+04

Table R–951. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–952. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

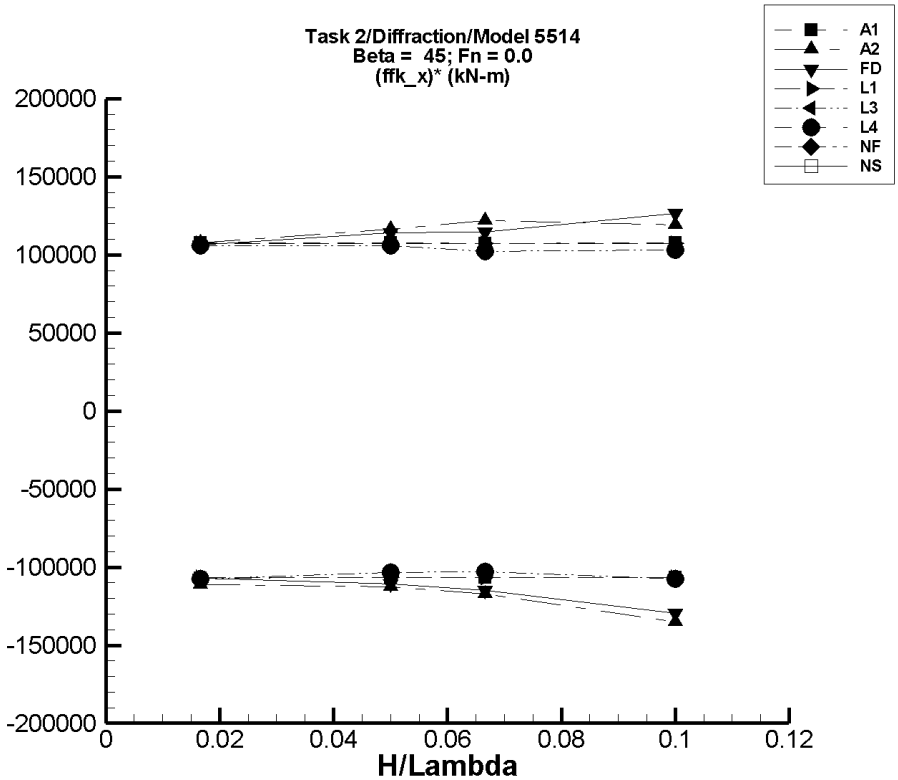

Figure R–120. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–953. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.74	-1.80E+03	1.80E+03	-1.79E+03	1.80E+03	-1.07E+05	1.08E+05
1/20	-5.21	-5.40E+03	5.40E+03	-5.34E+03	5.37E+03	-1.07E+05	1.08E+05
1/15	-6.93	-7.19E+03	7.19E+03	-7.11E+03	7.15E+03	-1.07E+05	1.07E+05
1/10	-10.4	-1.08E+04	1.08E+04	-1.07E+04	1.07E+04	-1.07E+05	1.08E+05

Table R–954. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.63	-2.25E+03	1.81E+03	-1.86E+03	1.79E+03	-1.11E+05	1.08E+05
1/20	-13.1	-5.71E+03	5.88E+03	-5.64E+03	5.81E+03	-1.13E+05	1.16E+05
1/15	-110.	-8.01E+03	8.37E+03	-7.91E+03	8.03E+03	-1.17E+05	1.22E+05
1/10	-667.	-1.45E+04	1.42E+04	-1.42E+04	1.12E+04	-1.35E+05	1.19E+05

Table R–955. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.437	-1.81E+03	1.79E+03	-1.79E+03	1.77E+03	-1.07E+05	1.06E+05
1/20	-3.67	-5.60E+03	5.77E+03	-5.54E+03	5.70E+03	-1.11E+05	1.14E+05
1/15	-4.03	-7.76E+03	7.73E+03	-7.67E+03	7.63E+03	-1.15E+05	1.15E+05
1/10	40.0	-1.31E+04	1.26E+04	-1.29E+04	1.27E+04	-1.29E+05	1.26E+05

Table R–956. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.05	-1.79E+03	1.79E+03	-1.78E+03	1.78E+03	-1.07E+05	1.07E+05
1/20	-3.15	-5.36E+03	5.36E+03	-5.34E+03	5.35E+03	-1.07E+05	1.07E+05
1/15	-4.19	-7.14E+03	7.14E+03	-7.11E+03	7.13E+03	-1.07E+05	1.07E+05
1/10	-6.29	-1.07E+04	1.07E+04	-1.07E+04	1.07E+04	-1.07E+05	1.07E+05

Table R–957. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.304	-1.80E+03	1.77E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-2.19	-5.20E+03	5.32E+03	-5.18E+03	5.29E+03	-1.04E+05	1.06E+05
1/15	7.54	-6.89E+03	6.84E+03	-6.86E+03	6.81E+03	-1.03E+05	1.02E+05
1/10	43.7	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.08E+05	1.03E+05

Table R–958. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.304	-1.80E+03	1.77E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-2.19	-5.20E+03	5.32E+03	-5.18E+03	5.29E+03	-1.04E+05	1.06E+05
1/15	7.54	-6.89E+03	6.84E+03	-6.86E+03	6.81E+03	-1.03E+05	1.02E+05
1/10	43.7	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.08E+05	1.03E+05

Table R–959. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–960. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

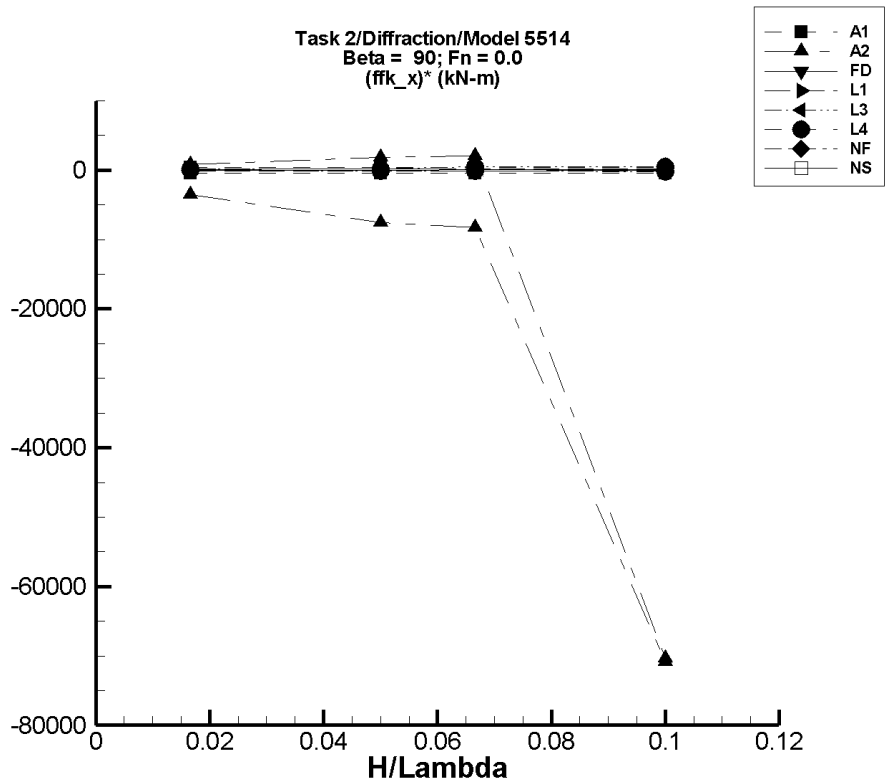

Figure R–121. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–961. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-5.03E-03	-6.91	6.91	-6.84	6.83	-410.	410.
1/20	-1.50E-02	-20.7	20.7	-20.5	20.4	-409.	409.
1/15	-2.00E-02	-27.5	27.5	-27.2	27.2	-408.	409.
1/10	-3.01E-02	-41.4	41.3	-40.9	40.9	-409.	409.

Table R–962. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-2.21	-451.	11.6	-60.6	11.3	-3.51E+03	813.
1/20	-59.1	-942.	40.3	-440.	30.8	-7.62E+03	1.80E+03
1/15	-99.0	-1.23E+03	66.7	-650.	39.1	-8.27E+03	2.07E+03
1/10	2.96E+03	-4.12E+03	-4.07E+03	-4.12E+03	-4.07E+03	-7.09E+04	-7.03E+04

Table R–963. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.666	-0.285	2.30	-0.152	2.09	-49.1	85.4
1/20	4.16	-0.213	13.4	3.93E-03	10.8	-83.2	133.
1/15	4.34	-4.75	14.6	-2.63	10.0	-105.	85.4
1/10	2.36	-13.7	17.0	-5.98	13.9	-83.4	115.

Table R–964. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.25E-03	-2.78	2.78	-2.77	2.77	-166.	166.
1/20	-3.65E-03	-8.33	8.33	-8.30	8.30	-166.	166.
1/15	-4.96E-03	-11.1	11.1	-11.1	11.1	-166.	166.
1/10	-7.30E-03	-16.7	16.7	-16.6	16.6	-166.	166.

Table R–965. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.702	-0.553	2.84	-0.547	2.81	-74.9	127.
1/20	4.12	-3.34	13.2	-3.01	12.9	-143.	176.
1/15	9.70	-3.26	47.0	-2.11	44.7	-177.	525.
1/10	8.38	-42.0	75.3	-13.1	56.3	-214.	479.

Table R–966. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.702	-0.553	2.84	-0.547	2.81	-74.9	127.
1/20	4.12	-3.34	13.2	-3.01	12.9	-143.	176.
1/15	9.70	-3.26	47.0	-2.11	44.7	-177.	525.
1/10	8.38	-42.0	75.3	-13.1	56.3	-214.	479.

Table R–967. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–968. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

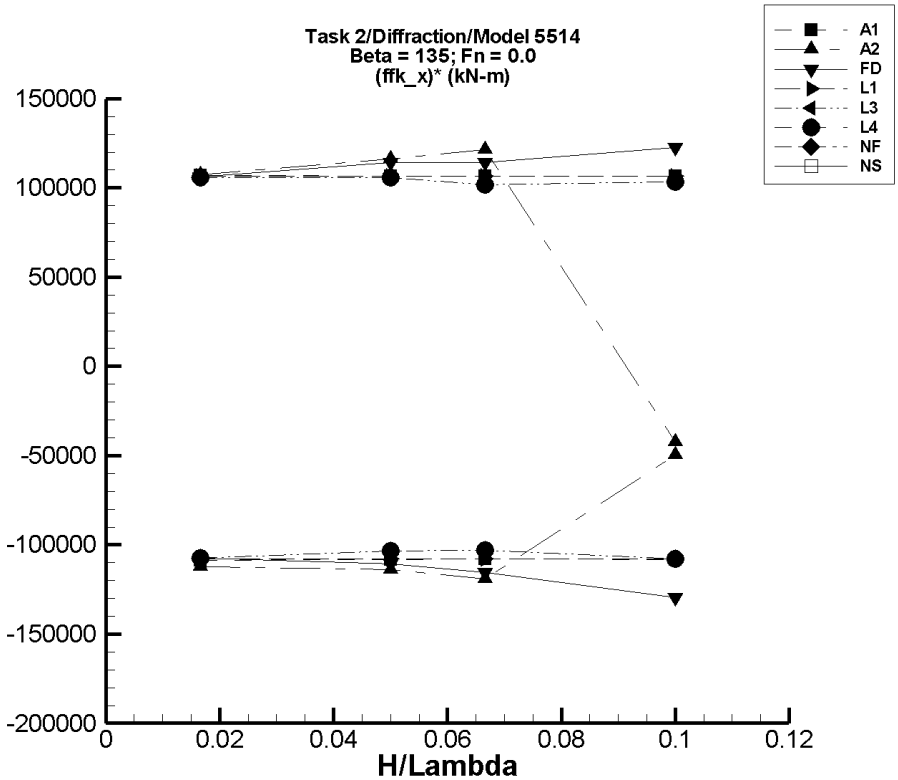

Figure R–122. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–969. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	1.83	-1.80E+03	1.80E+03	-1.81E+03	1.79E+03	-1.08E+05	1.07E+05
1/20	5.48	-5.40E+03	5.40E+03	-5.40E+03	5.34E+03	-1.08E+05	1.07E+05
1/15	7.30	-7.19E+03	7.19E+03	-7.20E+03	7.11E+03	-1.08E+05	1.07E+05
1/10	11.0	-1.08E+04	1.08E+04	-1.08E+04	1.07E+04	-1.08E+05	1.07E+05

Table R–970. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.16	-2.20E+03	1.81E+03	-1.87E+03	1.79E+03	-1.12E+05	1.07E+05
1/20	-7.66	-6.39E+03	5.88E+03	-5.70E+03	5.81E+03	-1.14E+05	1.16E+05
1/15	-75.1	-8.01E+03	8.20E+03	-8.00E+03	8.03E+03	-1.19E+05	1.22E+05
1/10	-5.65E+03	-1.06E+04	-9.89E+03	-1.06E+04	-9.89E+03	-4.96E+04	-4.23E+04

Table R–971. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.679	-1.81E+03	1.79E+03	-1.79E+03	1.77E+03	-1.08E+05	1.06E+05
1/20	-8.17E-02	-5.60E+03	5.77E+03	-5.54E+03	5.70E+03	-1.11E+05	1.14E+05
1/15	7.04	-7.76E+03	7.73E+03	-7.70E+03	7.63E+03	-1.16E+05	1.14E+05
1/10	34.8	-1.31E+04	1.26E+04	-1.29E+04	1.23E+04	-1.29E+05	1.23E+05

Table R–972. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	4.00E-03	-1.79E+03	1.79E+03	-1.80E+03	1.78E+03	-1.08E+05	1.07E+05
1/20	1.19E-02	-5.36E+03	5.36E+03	-5.39E+03	5.34E+03	-1.08E+05	1.07E+05
1/15	1.61E-02	-7.14E+03	7.14E+03	-7.19E+03	7.11E+03	-1.08E+05	1.07E+05
1/10	2.34E-02	-1.07E+04	1.07E+04	-1.08E+04	1.07E+04	-1.08E+05	1.07E+05

Table R–973. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.892	-1.80E+03	1.77E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-3.67E-02	-5.20E+03	5.32E+03	-5.18E+03	5.29E+03	-1.04E+05	1.06E+05
1/15	11.5	-6.88E+03	6.84E+03	-6.86E+03	6.81E+03	-1.03E+05	1.02E+05
1/10	48.4	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.08E+05	1.03E+05

Table R–974. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.892	-1.80E+03	1.77E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-3.67E-02	-5.20E+03	5.32E+03	-5.18E+03	5.29E+03	-1.04E+05	1.06E+05
1/15	11.5	-6.88E+03	6.84E+03	-6.86E+03	6.81E+03	-1.03E+05	1.02E+05
1/10	48.4	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.08E+05	1.03E+05

Table R–975. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–976. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

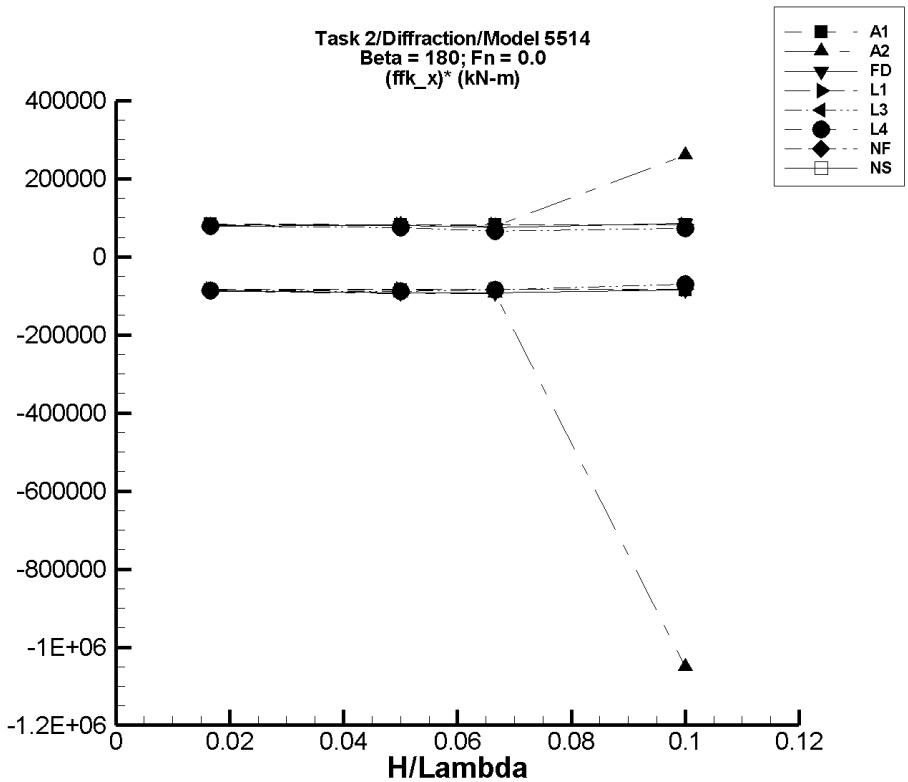

Figure R–123. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–977. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	1.48	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03	-8.43E+04	8.31E+04
1/20	4.44	-4.19E+03	4.19E+03	-4.20E+03	4.15E+03	-8.41E+04	8.29E+04
1/15	5.91	-5.58E+03	5.58E+03	-5.59E+03	5.52E+03	-8.40E+04	8.27E+04
1/10	8.88	-8.39E+03	8.39E+03	-8.40E+03	8.29E+03	-8.41E+04	8.29E+04

Table R–978. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	4.79	-1.47E+03	1.36E+03	-1.47E+03	1.34E+03	-8.83E+04	8.03E+04
1/20	3.96	-5.19E+03	4.14E+03	-4.70E+03	4.08E+03	-9.40E+04	8.15E+04
1/15	-48.1	-6.48E+03	5.25E+03	-6.29E+03	5.18E+03	-9.37E+04	7.85E+04
1/10	-9.53E+03	-8.72E+05	1.05E+04	-1.15E+05	1.65E+04	-1.05E+06	2.60E+05

Table R–979. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.977	-1.44E+03	1.33E+03	-1.43E+03	1.32E+03	-8.61E+04	7.92E+04
1/20	18.5	-4.71E+03	4.06E+03	-4.61E+03	4.00E+03	-9.26E+04	7.97E+04
1/15	32.2	-6.33E+03	5.12E+03	-6.14E+03	5.00E+03	-9.26E+04	7.45E+04
1/10	35.3	-8.73E+03	8.97E+03	-8.52E+03	8.69E+03	-8.55E+04	8.65E+04

Table R–980. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.378	-1.38E+03	1.38E+03	-1.39E+03	1.38E+03	-8.33E+04	8.26E+04
1/20	1.13	-4.15E+03	4.15E+03	-4.17E+03	4.13E+03	-8.33E+04	8.26E+04
1/15	1.51	-5.53E+03	5.53E+03	-5.55E+03	5.51E+03	-8.33E+04	8.26E+04
1/10	2.27	-8.30E+03	8.29E+03	-8.33E+03	8.26E+03	-8.33E+04	8.26E+04

Table R–981. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.946	-1.45E+03	1.32E+03	-1.45E+03	1.32E+03	-8.68E+04	7.90E+04
1/20	7.23	-4.46E+03	3.76E+03	-4.42E+03	3.74E+03	-8.86E+04	7.46E+04
1/15	19.9	-5.71E+03	4.47E+03	-5.65E+03	4.44E+03	-8.51E+04	6.63E+04
1/10	2.34	-7.02E+03	7.53E+03	-6.98E+03	7.33E+03	-6.98E+04	7.32E+04

Table R–982. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	0.946	-1.45E+03	1.32E+03	-1.45E+03	1.32E+03	-8.68E+04	7.90E+04
1/20	7.23	-4.46E+03	3.76E+03	-4.42E+03	3.74E+03	-8.86E+04	7.46E+04
1/15	19.9	-5.71E+03	4.47E+03	-5.65E+03	4.44E+03	-8.51E+04	6.63E+04
1/10	2.34	-7.02E+03	7.53E+03	-6.98E+03	7.33E+03	-6.98E+04	7.32E+04

Table R–983. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–984. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

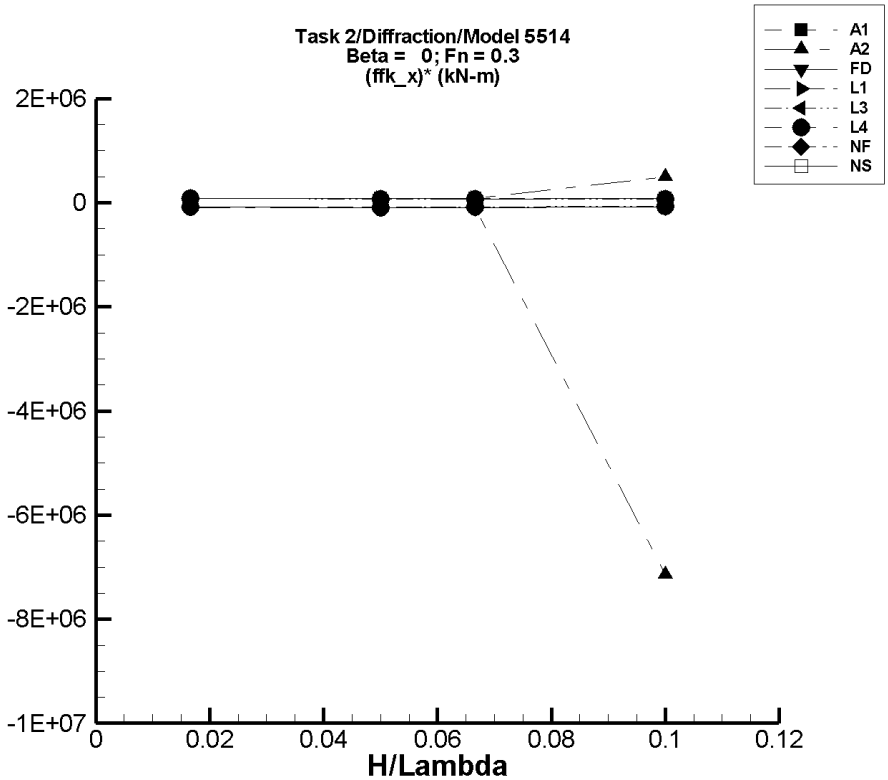

Figure R–124. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–985. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	1.06	-1.39E+03	1.39E+03	-1.39E+03	1.39E+03	-8.32E+04	8.32E+04
1/20	3.17	-4.15E+03	4.15E+03	-4.15E+03	4.15E+03	-8.30E+04	8.30E+04
1/15	4.22	-5.52E+03	5.52E+03	-5.52E+03	5.53E+03	-8.29E+04	8.29E+04
1/10	6.34	-8.30E+03	8.30E+03	-8.29E+03	8.30E+03	-8.30E+04	8.30E+04

Table R–986. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.85	-1.47E+03	1.36E+03	-1.47E+03	1.36E+03	-8.81E+04	8.12E+04
1/20	-10.9	-5.65E+03	4.14E+03	-4.81E+03	4.13E+03	-9.60E+04	8.29E+04
1/15	-72.5	-8.04E+03	5.36E+03	-6.48E+03	5.22E+03	-9.61E+04	7.94E+04
1/10	-1.79E+04	-2.88E+06	1.18E+04	-7.32E+05	3.22E+04	-7.14E+06	5.01E+05

Table R–987. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	3.91	-1.44E+03	1.33E+03	-1.44E+03	1.33E+03	-8.68E+04	7.98E+04
1/20	20.3	-4.71E+03	4.06E+03	-4.71E+03	4.05E+03	-9.45E+04	8.07E+04
1/15	37.8	-6.33E+03	5.14E+03	-6.32E+03	5.11E+03	-9.54E+04	7.61E+04
1/10	39.8	-8.74E+03	8.96E+03	-8.69E+03	8.90E+03	-8.73E+04	8.86E+04

Table R–988. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.49	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03	-8.23E+04	8.20E+04
1/20	7.48	-4.11E+03	4.11E+03	-4.11E+03	4.11E+03	-8.23E+04	8.20E+04
1/15	9.97	-5.48E+03	5.48E+03	-5.48E+03	5.48E+03	-8.23E+04	8.20E+04
1/10	15.0	-8.22E+03	8.22E+03	-8.22E+03	8.22E+03	-8.23E+04	8.20E+04

Table R–989. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.78	-1.45E+03	1.32E+03	-1.44E+03	1.32E+03	-8.69E+04	7.92E+04
1/20	9.66	-4.46E+03	3.76E+03	-4.46E+03	3.76E+03	-8.93E+04	7.49E+04
1/15	16.4	-5.71E+03	4.48E+03	-5.71E+03	4.47E+03	-8.58E+04	6.68E+04
1/10	21.3	-7.03E+03	7.54E+03	-7.01E+03	7.50E+03	-7.03E+04	7.48E+04

Table R–990. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	2.78	-1.45E+03	1.32E+03	-1.44E+03	1.32E+03	-8.69E+04	7.92E+04
1/20	9.66	-4.46E+03	3.76E+03	-4.46E+03	3.76E+03	-8.93E+04	7.49E+04
1/15	16.4	-5.71E+03	4.48E+03	-5.71E+03	4.47E+03	-8.58E+04	6.68E+04
1/10	21.3	-7.03E+03	7.54E+03	-7.01E+03	7.50E+03	-7.03E+04	7.48E+04

Table R–991. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–992. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

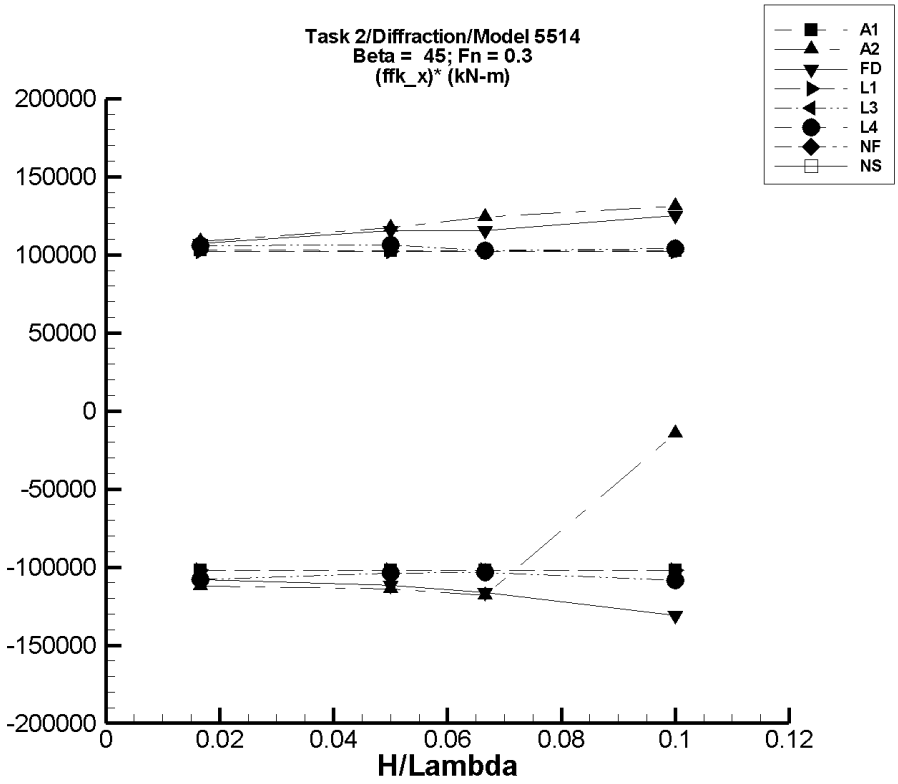

Figure R–125. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–993. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.04	-1.71E+03	1.71E+03	-1.71E+03	1.71E+03	-1.02E+05	1.03E+05
1/20	-6.09	-5.12E+03	5.12E+03	-5.10E+03	5.12E+03	-1.02E+05	1.03E+05
1/15	-8.11	-6.81E+03	6.81E+03	-6.80E+03	6.82E+03	-1.02E+05	1.02E+05
1/10	-12.2	-1.02E+04	1.02E+04	-1.02E+04	1.02E+04	-1.02E+05	1.03E+05

Table R–994. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.52	-2.25E+03	1.81E+03	-1.87E+03	1.81E+03	-1.12E+05	1.09E+05
1/20	-8.33	-6.40E+03	5.88E+03	-5.70E+03	5.87E+03	-1.14E+05	1.18E+05
1/15	-98.1	-8.01E+03	8.36E+03	-7.99E+03	8.19E+03	-1.18E+05	1.24E+05
1/10	-1.30E+04	-1.45E+04	-26.7	-1.44E+04	124.	-1.44E+04	1.31E+05

Table R–995. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_x^{\text{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.73	-1.81E+03	1.79E+03	-1.80E+03	1.79E+03	-1.08E+05	1.07E+05
1/20	-7.80	-5.60E+03	5.77E+03	-5.59E+03	5.76E+03	-1.12E+05	1.15E+05
1/15	-6.47	-7.77E+03	7.73E+03	-7.75E+03	7.71E+03	-1.16E+05	1.16E+05
1/10	27.4	-1.31E+04	1.26E+04	-1.31E+04	1.25E+04	-1.31E+05	1.25E+05

Table R–996. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	2.04E-04	-1.70E+03	1.70E+03	-1.70E+03	1.70E+03	-1.02E+05	1.02E+05
1/20	2.07E-04	-5.09E+03	5.09E+03	-5.10E+03	5.10E+03	-1.02E+05	1.02E+05
1/15	3.16E-04	-6.79E+03	6.79E+03	-6.80E+03	6.80E+03	-1.02E+05	1.02E+05
1/10	1.19E-03	-1.02E+04	1.02E+04	-1.02E+04	1.02E+04	-1.02E+05	1.02E+05

Table R–997. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.890	-1.80E+03	1.77E+03	-1.80E+03	1.77E+03	-1.08E+05	1.06E+05
1/20	-1.40	-5.20E+03	5.32E+03	-5.19E+03	5.31E+03	-1.04E+05	1.06E+05
1/15	4.31	-6.89E+03	6.84E+03	-6.88E+03	6.83E+03	-1.03E+05	1.02E+05
1/10	57.3	-1.08E+04	1.05E+04	-1.08E+04	1.04E+04	-1.08E+05	1.04E+05

Table R–998. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.890	-1.80E+03	1.77E+03	-1.80E+03	1.77E+03	-1.08E+05	1.06E+05
1/20	-1.40	-5.20E+03	5.32E+03	-5.19E+03	5.31E+03	-1.04E+05	1.06E+05
1/15	4.31	-6.89E+03	6.84E+03	-6.88E+03	6.83E+03	-1.03E+05	1.02E+05
1/10	57.3	-1.08E+04	1.05E+04	-1.08E+04	1.04E+04	-1.08E+05	1.04E+05

Table R–999. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1000. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

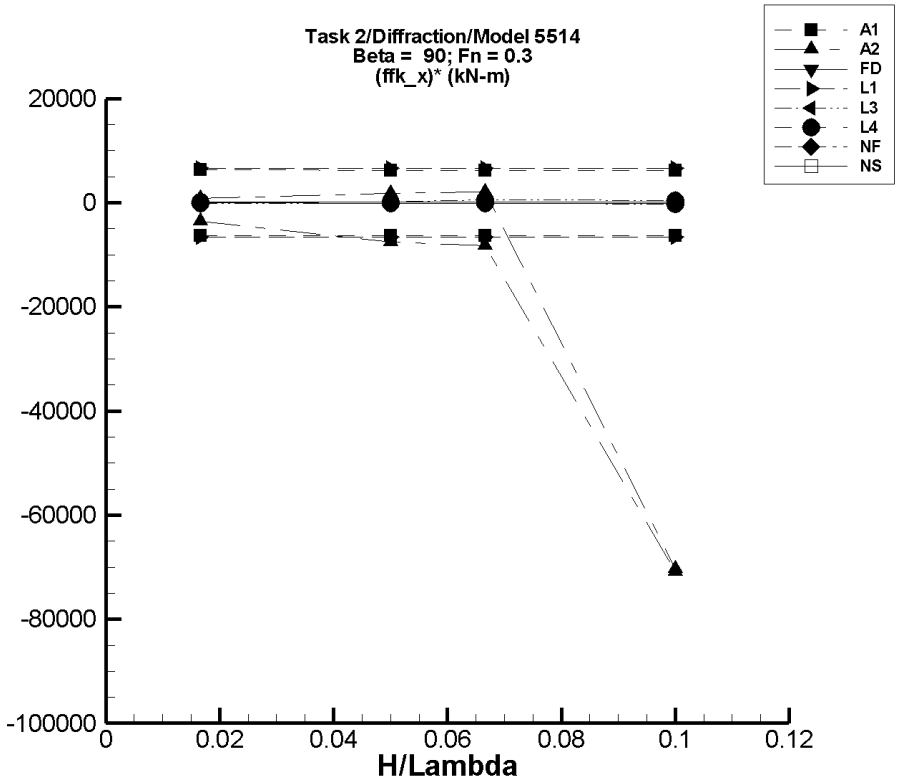

Figure R–126. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1001. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	7.72E-02	-106.	106.	-105.	105.	-6.30E+03	6.29E+03
1/20	0.231	-317.	317.	-314.	314.	-6.28E+03	6.28E+03
1/15	0.307	-423.	423.	-418.	418.	-6.27E+03	6.27E+03
1/10	0.462	-635.	635.	-628.	628.	-6.28E+03	6.28E+03

Table R–1002. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-2.21	-451.	11.6	-60.6	11.3	-3.51E+03	813.
1/20	-59.1	-942.	40.3	-440.	30.8	-7.62E+03	1.80E+03
1/15	-99.0	-1.23E+03	66.7	-650.	39.1	-8.27E+03	2.07E+03
1/10	2.96E+03	-4.12E+03	-4.07E+03	-4.12E+03	-4.07E+03	-7.09E+04	-7.03E+04

Table R–1003. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.666	-0.285	2.30	-0.151	2.09	-49.0	85.4
1/20	4.16	-0.207	13.4	3.71E-03	10.8	-83.2	133.
1/15	4.34	-4.75	14.6	-2.62	10.0	-104.	85.4
1/10	2.36	-13.7	17.0	-5.98	13.9	-83.4	115.

Table R–1004. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	-4.83E-02	-110.	110.	-109.	109.	-6.56E+03	6.57E+03
1/20	-0.145	-330.	330.	-328.	328.	-6.56E+03	6.57E+03
1/15	-0.193	-439.	439.	-438.	438.	-6.56E+03	6.57E+03
1/10	-0.289	-659.	659.	-656.	657.	-6.56E+03	6.57E+03

Table R–1005. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.702	-0.553	2.84	-0.547	2.81	-74.9	127.
1/20	4.12	-3.34	13.2	-3.01	12.9	-143.	176.
1/15	9.70	-3.27	47.0	-2.11	44.7	-177.	525.
1/10	8.38	-42.0	75.3	-13.1	56.3	-215.	479.

Table R–1006. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.702	-0.553	2.84	-0.547	2.81	-74.9	127.
1/20	4.12	-3.34	13.2	-3.01	12.9	-143.	176.
1/15	9.70	-3.27	47.0	-2.11	44.7	-177.	525.
1/10	8.38	-42.0	75.3	-13.1	56.3	-215.	479.

Table R–1007. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1008. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

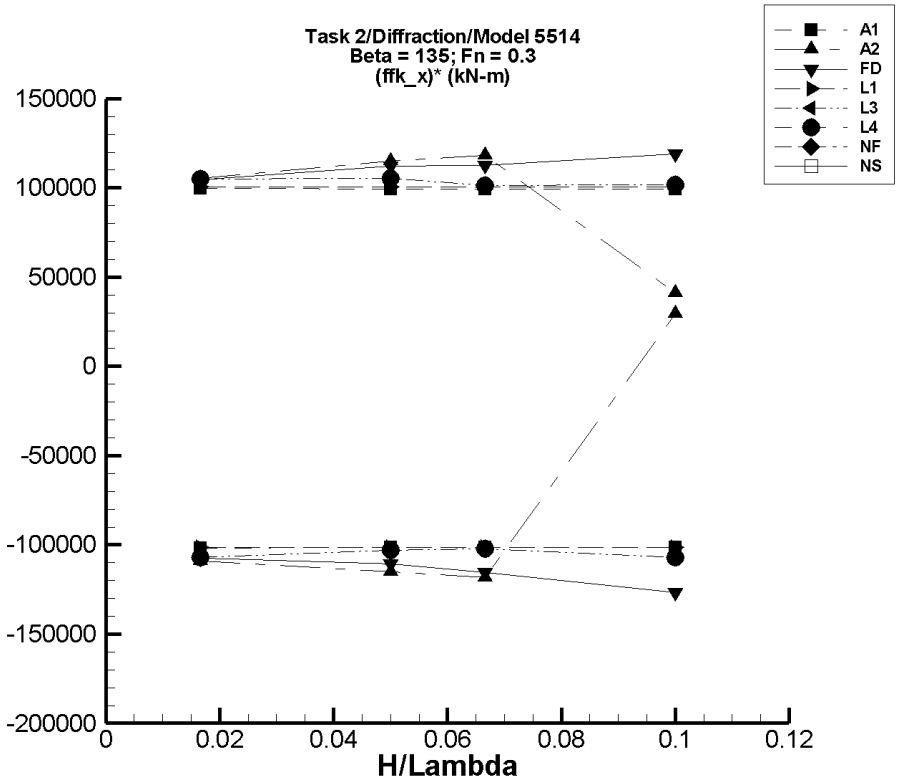

Figure R–127. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1009. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.39	-1.71E+03	1.71E+03	-1.69E+03	1.67E+03	-1.02E+05	9.98E+04
1/20	7.15	-5.12E+03	5.12E+03	-5.07E+03	4.98E+03	-1.02E+05	9.95E+04
1/15	9.52	-6.81E+03	6.81E+03	-6.75E+03	6.64E+03	-1.01E+05	9.94E+04
1/10	14.3	-1.02E+04	1.02E+04	-1.01E+04	9.97E+03	-1.02E+05	9.95E+04

Table R–1010. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	5.52	-1.82E+03	1.81E+03	-1.81E+03	1.76E+03	-1.09E+05	1.06E+05
1/20	-46.5	-6.73E+03	5.88E+03	-5.80E+03	5.70E+03	-1.15E+05	1.15E+05
1/15	-78.0	-8.00E+03	8.20E+03	-7.97E+03	7.81E+03	-1.18E+05	1.18E+05
1/10	-1.34E+04	-1.04E+04	-9.26E+03	-1.04E+04	-9.26E+03	2.96E+04	4.10E+04

Table R–1011. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	1.69	-1.81E+03	1.79E+03	-1.79E+03	1.74E+03	-1.07E+05	1.04E+05
1/20	7.99	-5.60E+03	5.77E+03	-5.52E+03	5.61E+03	-1.11E+05	1.12E+05
1/15	16.3	-7.76E+03	7.73E+03	-7.67E+03	7.53E+03	-1.15E+05	1.13E+05
1/10	64.9	-1.31E+04	1.26E+04	-1.26E+04	1.20E+04	-1.27E+05	1.19E+05

Table R–1012. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	1.90	-1.70E+03	1.70E+03	-1.69E+03	1.68E+03	-1.01E+05	1.01E+05
1/20	5.69	-5.09E+03	5.09E+03	-5.07E+03	5.04E+03	-1.01E+05	1.01E+05
1/15	7.58	-6.78E+03	6.78E+03	-6.75E+03	6.72E+03	-1.01E+05	1.01E+05
1/10	11.4	-1.02E+04	1.02E+04	-1.01E+04	1.01E+04	-1.01E+05	1.01E+05

Table R–1013. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.75	-1.80E+03	1.77E+03	-1.78E+03	1.75E+03	-1.07E+05	1.05E+05
1/20	3.89	-5.20E+03	5.32E+03	-5.15E+03	5.26E+03	-1.03E+05	1.05E+05
1/15	9.43	-6.89E+03	6.84E+03	-6.81E+03	6.76E+03	-1.02E+05	1.01E+05
1/10	49.1	-1.08E+04	1.05E+04	-1.07E+04	1.02E+04	-1.07E+05	1.02E+05

Table R–1014. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.75	-1.80E+03	1.77E+03	-1.78E+03	1.75E+03	-1.07E+05	1.05E+05
1/20	3.89	-5.20E+03	5.32E+03	-5.15E+03	5.26E+03	-1.03E+05	1.05E+05
1/15	9.43	-6.89E+03	6.84E+03	-6.81E+03	6.76E+03	-1.02E+05	1.01E+05
1/10	49.1	-1.08E+04	1.05E+04	-1.07E+04	1.02E+04	-1.07E+05	1.02E+05

Table R–1015. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1016. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

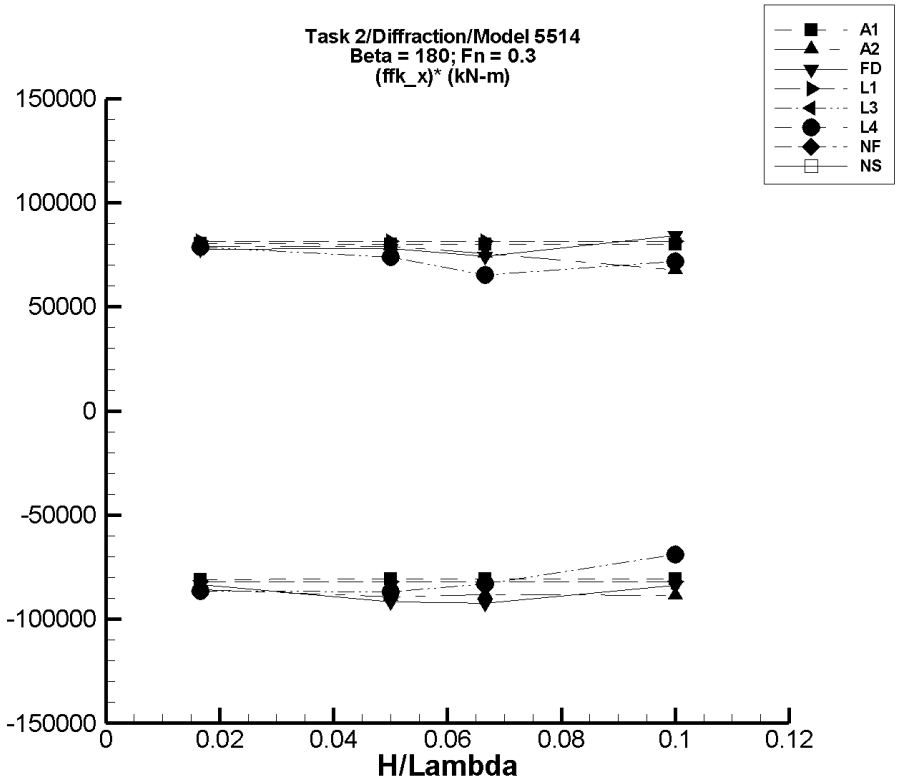

Figure R–128. Minimum and Maximum of $(F_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1017. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_x^{\mathrm{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.24	-1.39E+03	1.39E+03	-1.35E+03	1.34E+03	-8.10E+04	8.05E+04
1/20	-6.70	-4.15E+03	4.14E+03	-4.04E+03	4.00E+03	-8.08E+04	8.02E+04
1/15	-8.92	-5.52E+03	5.52E+03	-5.39E+03	5.33E+03	-8.06E+04	8.01E+04
1/10	-13.4	-8.29E+03	8.29E+03	-8.09E+03	8.01E+03	-8.08E+04	8.02E+04

Table R–1018. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_x^{\mathrm{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.24	-1.47E+03	1.36E+03	-1.44E+03	1.31E+03	-8.59E+04	7.91E+04
1/20	9.18	-4.80E+03	4.13E+03	-4.46E+03	3.96E+03	-8.94E+04	7.90E+04
1/15	-42.2	-6.49E+03	5.23E+03	-5.92E+03	4.99E+03	-8.82E+04	7.55E+04
1/10	-153.	-1.02E+04	9.68E+03	-9.01E+03	6.61E+03	-8.86E+04	6.76E+04

Table R–1019. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_x^{\mathrm{fk}} \rangle$	Unfiltered F_x^{fk}		Filtered F_x^{fk}		Filtered $\left(F_x^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.53	-1.44E+03	1.33E+03	-1.40E+03	1.29E+03	-8.35E+04	7.78E+04
1/20	-10.7	-4.71E+03	4.06E+03	-4.60E+03	3.89E+03	-9.17E+04	7.79E+04
1/15	-15.3	-6.33E+03	5.12E+03	-6.17E+03	4.93E+03	-9.24E+04	7.42E+04
1/10	-22.4	-8.72E+03	8.92E+03	-8.41E+03	8.41E+03	-8.39E+04	8.44E+04

Table R–1020. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-2.44	-1.37E+03	1.37E+03	-1.37E+03	1.35E+03	-8.21E+04	8.13E+04
1/20	-7.32	-4.11E+03	4.11E+03	-4.11E+03	4.06E+03	-8.21E+04	8.13E+04
1/15	-9.76	-5.48E+03	5.48E+03	-5.49E+03	5.41E+03	-8.21E+04	8.13E+04
1/10	-14.6	-8.22E+03	8.22E+03	-8.23E+03	8.12E+03	-8.21E+04	8.13E+04

Table R–1021. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.71	-1.44E+03	1.32E+03	-1.44E+03	1.31E+03	-8.64E+04	7.87E+04
1/20	5.64	-4.46E+03	3.76E+03	-4.34E+03	3.70E+03	-8.70E+04	7.38E+04
1/15	29.0	-5.71E+03	4.46E+03	-5.51E+03	4.38E+03	-8.30E+04	6.53E+04
1/10	5.81	-7.00E+03	7.51E+03	-6.88E+03	7.19E+03	-6.88E+04	7.19E+04

Table R–1022. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_x^{fk} Min. (kN)	Unfiltered F_x^{fk} Max. (kN)	Filtered F_x^{fk} Min. (kN)	Filtered F_x^{fk} Max. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.71	-1.44E+03	1.32E+03	-1.44E+03	1.31E+03	-8.64E+04	7.87E+04
1/20	5.64	-4.46E+03	3.76E+03	-4.34E+03	3.70E+03	-8.70E+04	7.38E+04
1/15	29.0	-5.71E+03	4.46E+03	-5.51E+03	4.38E+03	-8.30E+04	6.53E+04
1/10	5.81	-7.00E+03	7.51E+03	-6.88E+03	7.19E+03	-6.88E+04	7.19E+04

Table R–1023. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1024. Minimum and Maximum of F_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

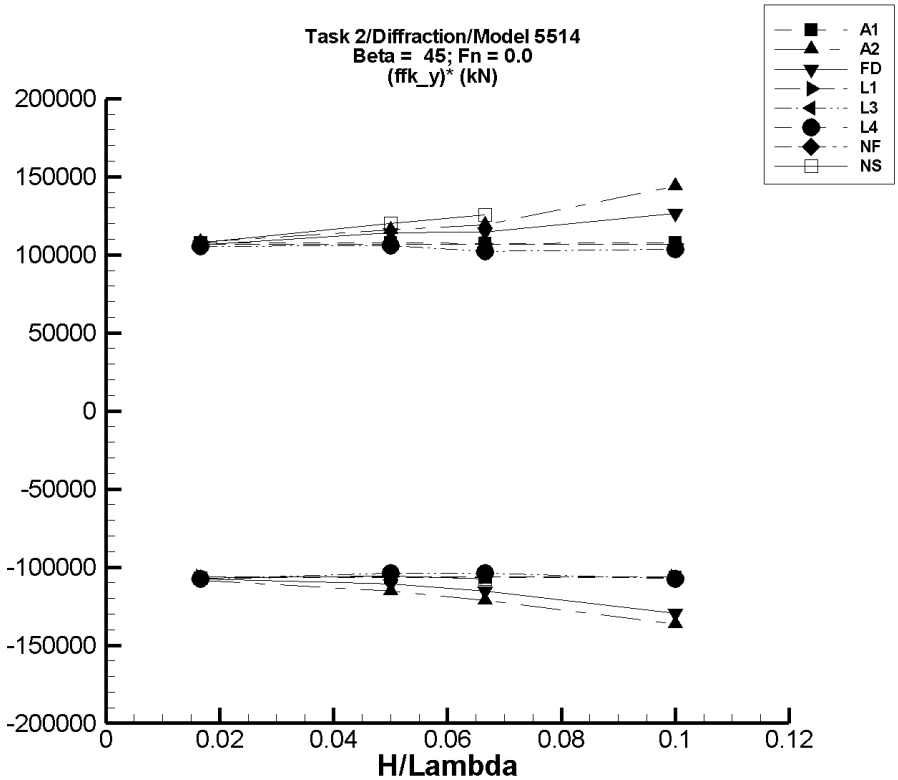

Figure R–129. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1025. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.74	-1.80E+03	1.80E+03	-1.78E+03	1.80E+03	-1.07E+05	1.08E+05
1/20	-5.20	-5.40E+03	5.39E+03	-5.34E+03	5.37E+03	-1.07E+05	1.08E+05
1/15	-6.93	-7.19E+03	7.18E+03	-7.11E+03	7.15E+03	-1.06E+05	1.07E+05
1/10	-10.4	-1.08E+04	1.08E+04	-1.07E+04	1.07E+04	-1.07E+05	1.08E+05

Table R–1026. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.00	-1.84E+03	1.81E+03	-1.81E+03	1.80E+03	-1.09E+05	1.08E+05
1/20	45.9	-5.74E+03	5.93E+03	-5.72E+03	5.84E+03	-1.15E+05	1.16E+05
1/15	6.53	-8.11E+03	1.00E+04	-8.08E+03	7.96E+03	-1.21E+05	1.19E+05
1/10	-407.	-1.47E+04	2.52E+04	-1.41E+04	1.40E+04	-1.37E+05	1.44E+05

Table R–1027. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-8.38E-02	-1.81E+03	1.79E+03	-1.79E+03	1.77E+03	-1.07E+05	1.06E+05
1/20	-7.49	-5.61E+03	5.77E+03	-5.55E+03	5.70E+03	-1.11E+05	1.14E+05
1/15	-8.24	-7.77E+03	7.72E+03	-7.68E+03	7.63E+03	-1.15E+05	1.14E+05
1/10	38.7	-1.31E+04	1.26E+04	-1.29E+04	1.27E+04	-1.29E+05	1.27E+05

Table R–1028. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.04	-1.78E+03	1.78E+03	-1.77E+03	1.78E+03	-1.06E+05	1.07E+05
1/20	-3.13	-5.34E+03	5.34E+03	-5.32E+03	5.33E+03	-1.06E+05	1.07E+05
1/15	-4.18	-7.12E+03	7.12E+03	-7.09E+03	7.11E+03	-1.06E+05	1.07E+05
1/10	-6.27	-1.07E+04	1.07E+04	-1.06E+04	1.07E+04	-1.06E+05	1.07E+05

Table R–1029. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.01	-1.80E+03	1.76E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-6.40	-5.21E+03	5.32E+03	-5.19E+03	5.30E+03	-1.04E+05	1.06E+05
1/15	-2.74	-6.94E+03	6.85E+03	-6.92E+03	6.81E+03	-1.04E+05	1.02E+05
1/10	34.7	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.07E+05	1.03E+05

Table R–1030. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.01	-1.80E+03	1.76E+03	-1.79E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-6.40	-5.21E+03	5.32E+03	-5.19E+03	5.30E+03	-1.04E+05	1.06E+05
1/15	-2.74	-6.94E+03	6.85E+03	-6.92E+03	6.81E+03	-1.04E+05	1.02E+05
1/10	34.7	-1.08E+04	1.05E+04	-1.07E+04	1.04E+04	-1.07E+05	1.03E+05

Table R–1031. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1032. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-4.85	-1.80E+03	1.81E+03	-1.79E+03	1.79E+03	-1.07E+05	1.08E+05
1/20	-29.0	-5.36E+03	5.95E+03	-5.30E+03	5.97E+03	-1.05E+05	1.20E+05
1/15	-28.1	-7.23E+03	8.33E+03	-7.19E+03	8.36E+03	-1.07E+05	1.26E+05
1/10	—	—	—	—	—	—	—

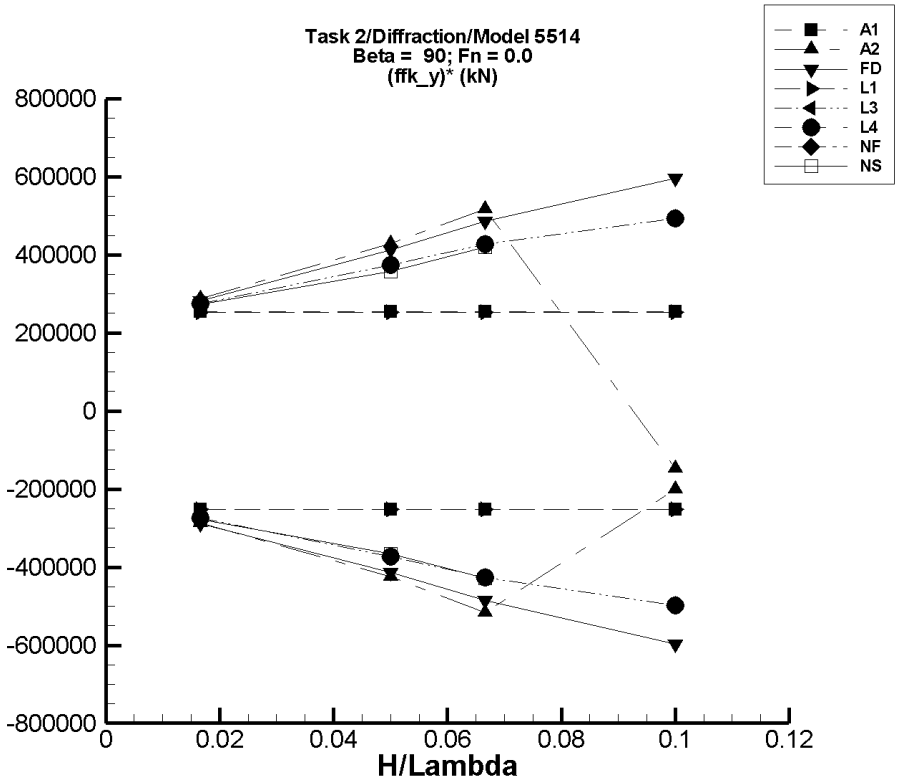

Figure R–130. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1033. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.22	-4.26E+03	4.26E+03	-4.21E+03	4.25E+03	-2.52E+05	2.55E+05
1/20	-12.6	-1.27E+04	1.27E+04	-1.26E+04	1.27E+04	-2.52E+05	2.55E+05
1/15	-16.8	-1.70E+04	1.70E+04	-1.68E+04	1.69E+04	-2.51E+05	2.54E+05
1/10	-25.2	-2.55E+04	2.55E+04	-2.52E+04	2.54E+04	-2.52E+05	2.55E+05

Table R–1034. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-3.32	-4.86E+03	4.86E+03	-4.77E+03	4.78E+03	-2.86E+05	2.87E+05
1/20	-53.4	-2.19E+04	2.20E+04	-2.13E+04	2.14E+04	-4.25E+05	4.29E+05
1/15	-0.634	-3.55E+04	3.56E+04	-3.44E+04	3.45E+04	-5.16E+05	5.17E+05
1/10	3.03E+04	1.01E+04	1.55E+04	1.01E+04	1.55E+04	-2.01E+05	-1.48E+05

Table R–1035. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.864	-4.79E+03	4.79E+03	-4.82E+03	4.70E+03	-2.89E+05	2.82E+05
1/20	-26.8	-2.12E+04	2.12E+04	-2.07E+04	2.06E+04	-4.13E+05	4.13E+05
1/15	-53.5	-3.35E+04	3.35E+04	-3.23E+04	3.24E+04	-4.84E+05	4.87E+05
1/10	-64.8	-6.22E+04	6.22E+04	-5.97E+04	5.96E+04	-5.96E+05	5.97E+05

Table R–1036. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.92	-4.21E+03	4.21E+03	-4.20E+03	4.21E+03	-2.52E+05	2.53E+05
1/20	-8.76	-1.26E+04	1.26E+04	-1.26E+04	1.26E+04	-2.52E+05	2.53E+05
1/15	-11.7	-1.69E+04	1.69E+04	-1.68E+04	1.68E+04	-2.52E+05	2.53E+05
1/10	-17.5	-2.53E+04	2.53E+04	-2.52E+04	2.53E+04	-2.52E+05	2.53E+05

Table R–1037. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.24	-4.61E+03	4.61E+03	-4.58E+03	4.59E+03	-2.75E+05	2.75E+05
1/20	-0.220	-1.88E+04	1.88E+04	-1.87E+04	1.87E+04	-3.74E+05	3.73E+05
1/15	13.2	-2.88E+04	2.88E+04	-2.84E+04	2.84E+04	-4.27E+05	4.26E+05
1/10	186.	-5.01E+04	5.01E+04	-4.96E+04	4.96E+04	-4.98E+05	4.94E+05

Table R–1038. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.24	-4.61E+03	4.61E+03	-4.58E+03	4.59E+03	-2.75E+05	2.75E+05
1/20	-0.220	-1.88E+04	1.88E+04	-1.87E+04	1.87E+04	-3.74E+05	3.73E+05
1/15	13.2	-2.88E+04	2.88E+04	-2.84E+04	2.84E+04	-4.27E+05	4.26E+05
1/10	186.	-5.01E+04	5.01E+04	-4.96E+04	4.96E+04	-4.98E+05	4.94E+05

Table R–1039. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1040. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-5.71	-4.71E+03	4.62E+03	-4.64E+03	4.55E+03	-2.78E+05	2.73E+05
1/20	-21.2	-1.88E+04	1.83E+04	-1.83E+04	1.79E+04	-3.66E+05	3.58E+05
1/15	5.61	-2.91E+04	2.85E+04	-2.86E+04	2.80E+04	-4.29E+05	4.20E+05
1/10	—	—	—	—	—	—	—

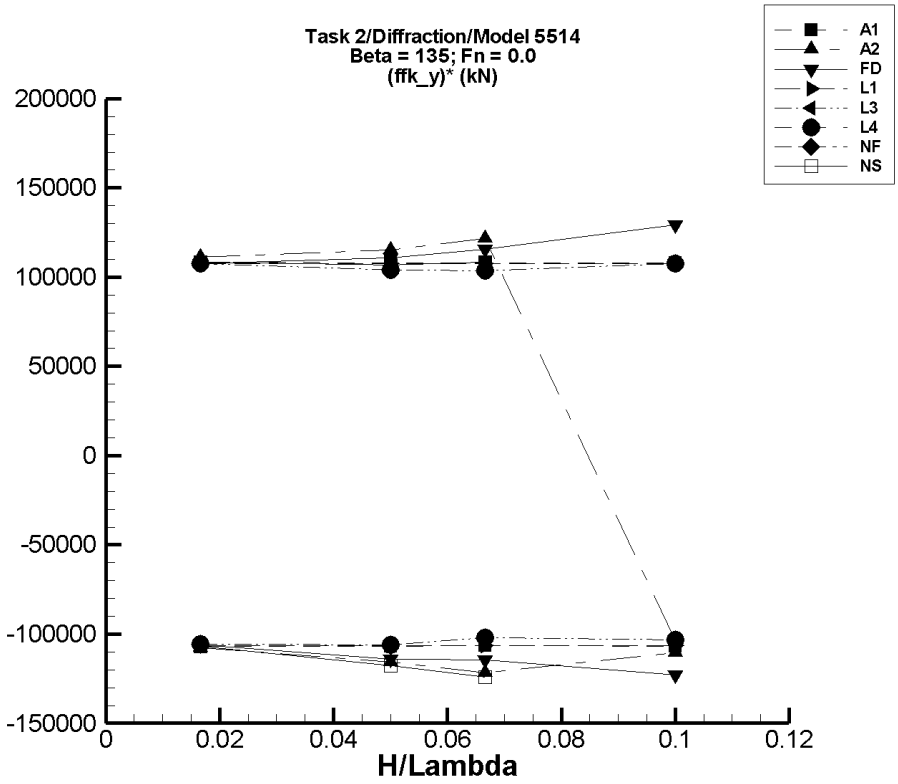

Figure R–131. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1041. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.83	-1.80E+03	1.80E+03	-1.78E+03	1.81E+03	-1.07E+05	1.08E+05
1/20	-5.48	-5.40E+03	5.40E+03	-5.34E+03	5.40E+03	-1.07E+05	1.08E+05
1/15	-7.29	-7.19E+03	7.19E+03	-7.11E+03	7.19E+03	-1.06E+05	1.08E+05
1/10	-11.0	-1.08E+04	1.08E+04	-1.07E+04	1.08E+04	-1.07E+05	1.08E+05

Table R–1042. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.52	-1.81E+03	1.90E+03	-1.79E+03	1.85E+03	-1.08E+05	1.11E+05
1/20	-52.0	-5.92E+03	5.74E+03	-5.84E+03	5.71E+03	-1.16E+05	1.15E+05
1/15	-3.92	-8.39E+03	8.11E+03	-8.11E+03	8.11E+03	-1.22E+05	1.22E+05
1/10	2.11E+04	1.00E+04	1.07E+04	1.00E+04	1.07E+04	-1.10E+05	-1.03E+05

Table R–1043. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\mathrm{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.110	-1.79E+03	1.81E+03	-1.77E+03	1.79E+03	-1.06E+05	1.08E+05
1/20	3.99	-5.77E+03	5.61E+03	-5.70E+03	5.55E+03	-1.14E+05	1.11E+05
1/15	-2.50	-7.72E+03	7.78E+03	-7.62E+03	7.72E+03	-1.14E+05	1.16E+05
1/10	-31.6	-1.26E+04	1.31E+04	-1.23E+04	1.29E+04	-1.23E+05	1.29E+05

Table R–1044. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\mathrm{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-4.25E-03	-1.78E+03	1.78E+03	-1.77E+03	1.79E+03	-1.06E+05	1.07E+05
1/20	-1.18E-02	-5.34E+03	5.34E+03	-5.32E+03	5.37E+03	-1.06E+05	1.07E+05
1/15	-1.59E-02	-7.12E+03	7.12E+03	-7.09E+03	7.16E+03	-1.06E+05	1.07E+05
1/10	-2.30E-02	-1.07E+04	1.07E+04	-1.06E+04	1.07E+04	-1.06E+05	1.07E+05

Table R–1045. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-0.170	-1.76E+03	1.80E+03	-1.76E+03	1.79E+03	-1.05E+05	1.08E+05
1/20	4.50	-5.32E+03	5.21E+03	-5.30E+03	5.20E+03	-1.06E+05	1.04E+05
1/15	-1.67	-6.85E+03	6.94E+03	-6.81E+03	6.92E+03	-1.02E+05	1.04E+05
1/10	-38.8	-1.05E+04	1.08E+04	-1.04E+04	1.07E+04	-1.03E+05	1.07E+05

Table R–1046. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-0.170	-1.76E+03	1.80E+03	-1.76E+03	1.79E+03	-1.05E+05	1.08E+05
1/20	4.50	-5.32E+03	5.21E+03	-5.30E+03	5.20E+03	-1.06E+05	1.04E+05
1/15	-1.67	-6.85E+03	6.94E+03	-6.81E+03	6.92E+03	-1.02E+05	1.04E+05
1/10	-38.8	-1.05E+04	1.08E+04	-1.04E+04	1.07E+04	-1.03E+05	1.07E+05

Table R–1047. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1048. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-4.82	-1.81E+03	1.80E+03	-1.79E+03	1.80E+03	-1.07E+05	1.08E+05
1/20	-29.8	-5.99E+03	5.32E+03	-5.91E+03	5.31E+03	-1.18E+05	1.07E+05
1/15	-29.6	-8.37E+03	7.21E+03	-8.29E+03	7.19E+03	-1.24E+05	1.08E+05
1/10	—	—	—	—	—	—	—

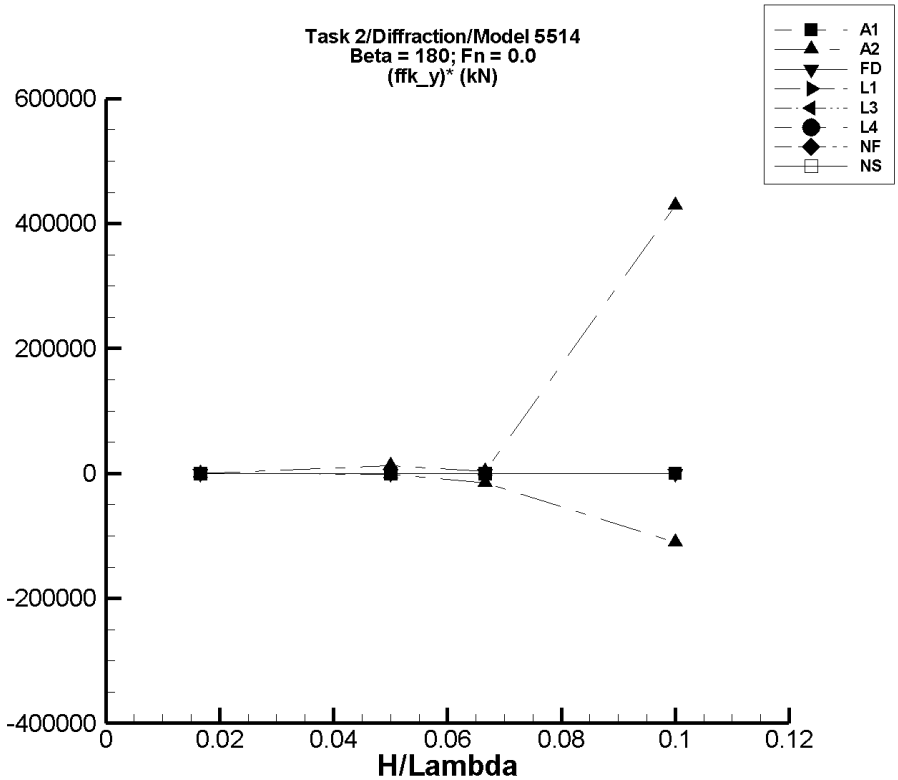

Figure R–132. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1049. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-4.49E-08	-5.82E-05	5.82E-05	-5.76E-05	5.76E-05	-3.45E-03	3.46E-03
1/20	-1.34E-07	-1.74E-04	1.74E-04	-1.72E-04	1.72E-04	-3.44E-03	3.45E-03
1/15	-1.79E-07	-2.32E-04	2.32E-04	-2.29E-04	2.29E-04	-3.44E-03	3.44E-03
1/10	-2.68E-07	-3.48E-04	3.48E-04	-3.44E-04	3.44E-04	-3.44E-03	3.45E-03

Table R–1050. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-3.26E-06	-6.19E-04	8.70E-04	-1.70E-04	5.80E-05	-9.98E-03	3.68E-03
1/20	30.0	-2.72E-03	5.09E+03	-58.1	679.	-1.76E+03	1.30E+04
1/15	-88.7	-8.00E+03	4.07E-02	-1.10E+03	92.7	-1.52E+04	2.72E+03
1/10	4.34E+03	-4.87E+04	3.10E+05	-6.67E+03	4.73E+04	-1.10E+05	4.29E+05

Table R–1051. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.47E-05	-2.95E-03	1.39E-03	-4.47E-04	1.77E-04	-2.59E-02	1.15E-02
1/20	1.65E-04	-9.05E-03	5.44E-03	-1.43E-03	1.07E-03	-3.19E-02	1.81E-02
1/15	2.83E-04	-1.15E-02	1.20E-02	-1.53E-03	1.83E-03	-2.71E-02	2.32E-02
1/10	1.20E-04	-1.76E-02	2.72E-02	-2.78E-03	3.82E-03	-2.90E-02	3.70E-02

Table R–1052. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1053. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1054. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1055. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1056. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	5.09E-05	-1.21E-03	1.29E-03	-2.58E-04	2.82E-04	-1.86E-02	1.39E-02
1/20	8.31E-05	-4.01E-03	3.34E-03	-4.83E-04	9.98E-04	-1.13E-02	1.83E-02
1/15	-6.97E-05	-5.26E-03	4.69E-03	-2.02E-03	6.86E-04	-2.92E-02	1.13E-02
1/10	—	—	—	—	—	—	—

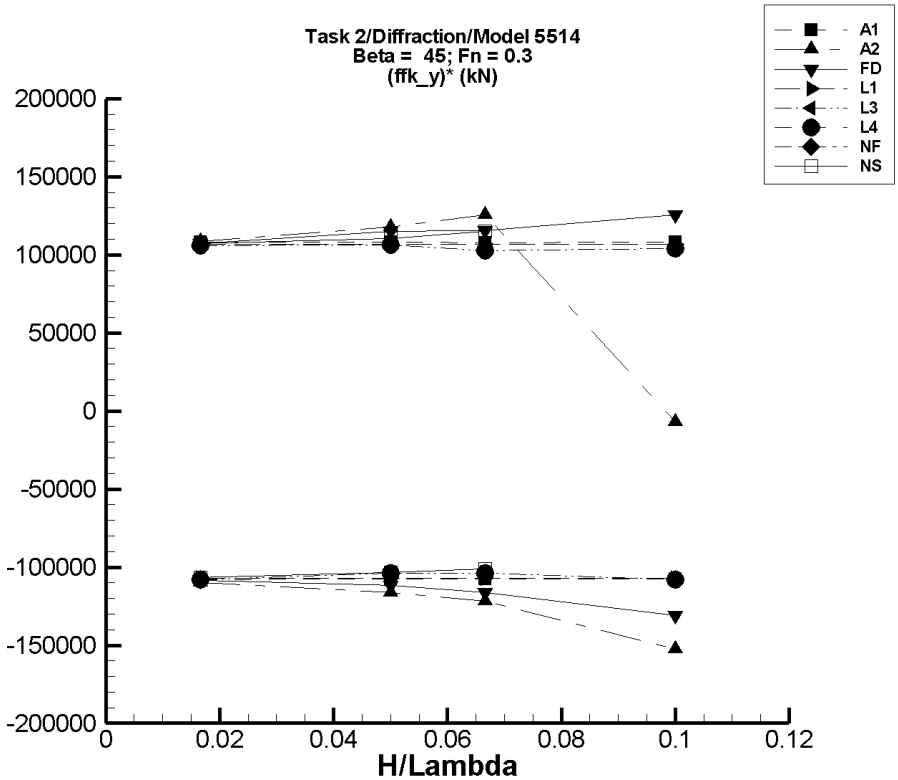

Figure R–133. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1057. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.07	-1.80E+03	1.80E+03	-1.80E+03	1.80E+03	-1.08E+05	1.08E+05
1/20	-6.19	-5.40E+03	5.40E+03	-5.39E+03	5.39E+03	-1.08E+05	1.08E+05
1/15	-8.24	-7.19E+03	7.19E+03	-7.17E+03	7.18E+03	-1.07E+05	1.08E+05
1/10	-12.4	-1.08E+04	1.08E+04	-1.08E+04	1.08E+04	-1.08E+05	1.08E+05

Table R–1058. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-1.66	-1.84E+03	1.81E+03	-1.83E+03	1.81E+03	-1.10E+05	1.09E+05
1/20	24.5	-5.74E+03	5.93E+03	-5.79E+03	5.91E+03	-1.16E+05	1.18E+05
1/15	11.8	-8.11E+03	1.00E+04	-8.09E+03	8.37E+03	-1.22E+05	1.25E+05
1/10	818.	-1.46E+04	-26.7	-1.45E+04	130.	-1.53E+05	-6.88E+03

Table R–1059. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.31	-1.81E+03	1.79E+03	-1.81E+03	1.79E+03	-1.08E+05	1.07E+05
1/20	-11.8	-5.62E+03	5.77E+03	-5.60E+03	5.75E+03	-1.12E+05	1.15E+05
1/15	-10.3	-7.77E+03	7.72E+03	-7.75E+03	7.69E+03	-1.16E+05	1.16E+05
1/10	26.2	-1.31E+04	1.26E+04	-1.31E+04	1.26E+04	-1.31E+05	1.26E+05

Table R–1060. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-1.23E-02	-1.78E+03	1.78E+03	-1.79E+03	1.78E+03	-1.07E+05	1.07E+05
1/20	-3.73E-02	-5.34E+03	5.34E+03	-5.36E+03	5.35E+03	-1.07E+05	1.07E+05
1/15	-4.91E-02	-7.12E+03	7.12E+03	-7.15E+03	7.13E+03	-1.07E+05	1.07E+05
1/10	-7.44E-02	-1.07E+04	1.07E+04	-1.07E+04	1.07E+04	-1.07E+05	1.07E+05

Table R–1061. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.173	-1.80E+03	1.76E+03	-1.80E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-5.86	-5.21E+03	5.32E+03	-5.21E+03	5.32E+03	-1.04E+05	1.06E+05
1/15	-5.40	-6.94E+03	6.85E+03	-6.94E+03	6.83E+03	-1.04E+05	1.03E+05
1/10	47.5	-1.08E+04	1.05E+04	-1.08E+04	1.04E+04	-1.08E+05	1.04E+05

Table R–1062. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.173	-1.80E+03	1.76E+03	-1.80E+03	1.76E+03	-1.08E+05	1.06E+05
1/20	-5.86	-5.21E+03	5.32E+03	-5.21E+03	5.32E+03	-1.04E+05	1.06E+05
1/15	-5.40	-6.94E+03	6.85E+03	-6.94E+03	6.83E+03	-1.04E+05	1.03E+05
1/10	47.5	-1.08E+04	1.05E+04	-1.08E+04	1.04E+04	-1.08E+05	1.04E+05

Table R–1063. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1064. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	2.69	-1.79E+03	1.81E+03	-1.77E+03	1.79E+03	-1.07E+05	1.07E+05
1/20	35.9	-5.17E+03	5.62E+03	-5.12E+03	5.55E+03	-1.03E+05	1.10E+05
1/15	50.0	-6.72E+03	7.68E+03	-6.68E+03	7.71E+03	-1.01E+05	1.15E+05
1/10	—	—	—	—	—	—	—

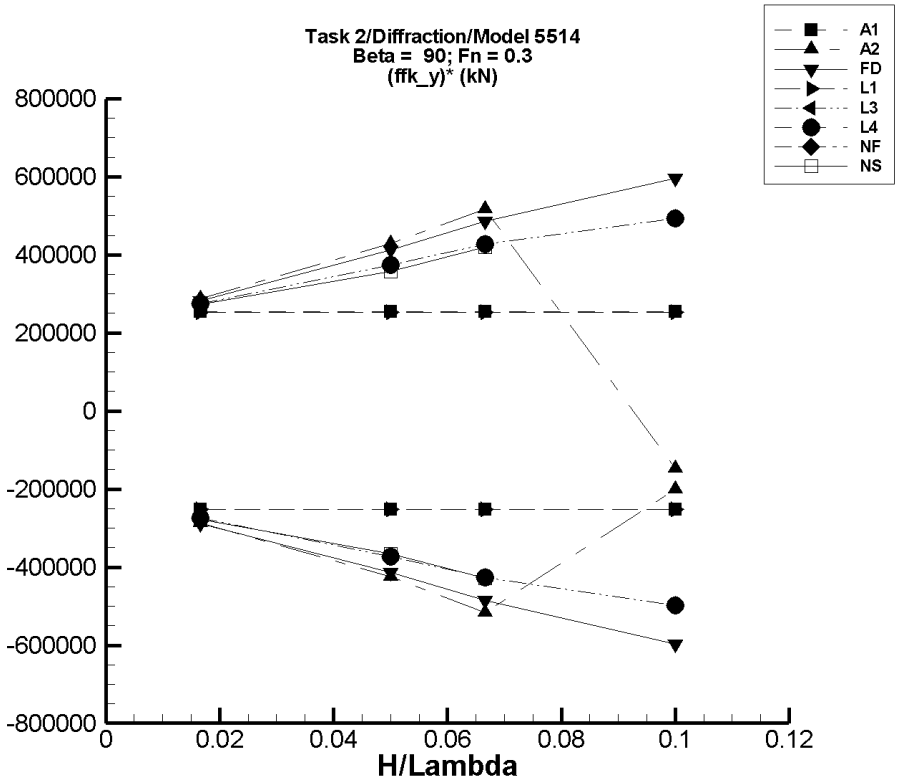

Figure R–134. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1065. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-4.21	-4.26E+03	4.26E+03	-4.21E+03	4.25E+03	-2.52E+05	2.55E+05
1/20	-12.6	-1.27E+04	1.27E+04	-1.26E+04	1.27E+04	-2.52E+05	2.55E+05
1/15	-16.8	-1.69E+04	1.70E+04	-1.68E+04	1.69E+04	-2.51E+05	2.54E+05
1/10	-25.2	-2.55E+04	2.55E+04	-2.52E+04	2.54E+04	-2.52E+05	2.55E+05

Table R–1066. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-3.32	-4.86E+03	4.86E+03	-4.77E+03	4.78E+03	-2.86E+05	2.87E+05
1/20	-53.4	-2.19E+04	2.20E+04	-2.13E+04	2.14E+04	-4.25E+05	4.29E+05
1/15	-0.634	-3.55E+04	3.56E+04	-3.44E+04	3.45E+04	-5.16E+05	5.17E+05
1/10	3.03E+04	1.01E+04	1.55E+04	1.01E+04	1.55E+04	-2.01E+05	-1.48E+05

Table R–1067. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\mathrm{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-0.864	-4.79E+03	4.79E+03	-4.82E+03	4.70E+03	-2.89E+05	2.82E+05
1/20	-26.8	-2.12E+04	2.12E+04	-2.07E+04	2.06E+04	-4.13E+05	4.13E+05
1/15	-53.5	-3.35E+04	3.35E+04	-3.23E+04	3.24E+04	-4.84E+05	4.87E+05
1/10	-64.8	-6.22E+04	6.22E+04	-5.97E+04	5.96E+04	-5.96E+05	5.97E+05

Table R–1068. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\mathrm{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\mathrm{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.92	-4.21E+03	4.21E+03	-4.19E+03	4.21E+03	-2.51E+05	2.53E+05
1/20	-8.76	-1.26E+04	1.26E+04	-1.26E+04	1.26E+04	-2.51E+05	2.53E+05
1/15	-11.7	-1.68E+04	1.68E+04	-1.68E+04	1.68E+04	-2.51E+05	2.53E+05
1/10	-17.5	-2.53E+04	2.53E+04	-2.52E+04	2.53E+04	-2.51E+05	2.53E+05

Table R–1069. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.24	-4.61E+03	4.61E+03	-4.58E+03	4.59E+03	-2.75E+05	2.75E+05
1/20	-0.220	-1.88E+04	1.88E+04	-1.87E+04	1.87E+04	-3.74E+05	3.73E+05
1/15	13.2	-2.88E+04	2.88E+04	-2.84E+04	2.84E+04	-4.27E+05	4.26E+05
1/10	186.	-5.01E+04	5.01E+04	-4.96E+04	4.96E+04	-4.98E+05	4.94E+05

Table R–1070. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.24	-4.61E+03	4.61E+03	-4.58E+03	4.59E+03	-2.75E+05	2.75E+05
1/20	-0.220	-1.88E+04	1.88E+04	-1.87E+04	1.87E+04	-3.74E+05	3.73E+05
1/15	13.2	-2.88E+04	2.88E+04	-2.84E+04	2.84E+04	-4.27E+05	4.26E+05
1/10	186.	-5.01E+04	5.01E+04	-4.96E+04	4.96E+04	-4.98E+05	4.94E+05

Table R–1071. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1072. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-5.62	-4.71E+03	4.62E+03	-4.64E+03	4.55E+03	-2.78E+05	2.74E+05
1/20	-19.8	-1.88E+04	1.83E+04	-1.83E+04	1.79E+04	-3.66E+05	3.58E+05
1/15	5.61	-2.91E+04	2.85E+04	-2.86E+04	2.80E+04	-4.29E+05	4.20E+05
1/10	—	—	—	—	—	—	—

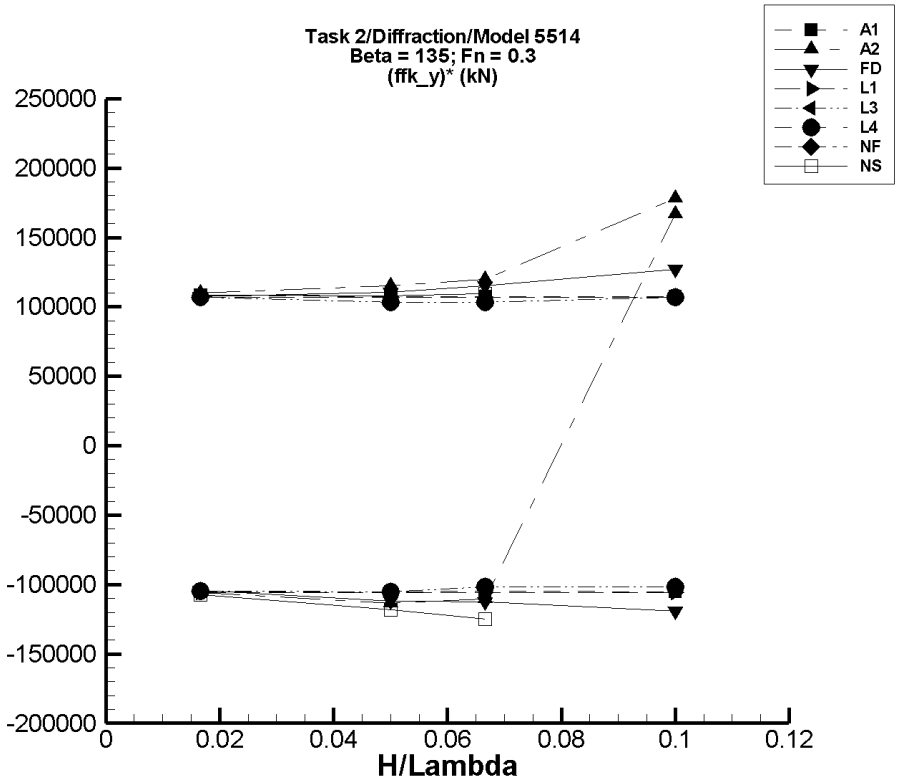

Figure R–135. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1073. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.58	-1.80E+03	1.80E+03	-1.76E+03	1.80E+03	-1.05E+05	1.08E+05
1/20	-7.73	-5.40E+03	5.40E+03	-5.26E+03	5.37E+03	-1.05E+05	1.08E+05
1/15	-10.3	-7.19E+03	7.19E+03	-7.00E+03	7.15E+03	-1.05E+05	1.07E+05
1/10	-15.5	-1.08E+04	1.08E+04	-1.05E+04	1.07E+04	-1.05E+05	1.08E+05

Table R–1074. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.82	-1.81E+03	1.84E+03	-1.77E+03	1.83E+03	-1.06E+05	1.10E+05
1/20	-76.4	-5.93E+03	8.81E+03	-5.75E+03	5.69E+03	-1.13E+05	1.15E+05
1/15	97.4	-8.42E+03	8.11E+03	-7.25E+03	8.08E+03	-1.10E+05	1.20E+05
1/10	-7.31E+03	9.38E+03	1.05E+04	9.38E+03	1.05E+04	1.67E+05	1.78E+05

Table R–1075. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.05	-1.79E+03	1.81E+03	-1.74E+03	1.79E+03	-1.04E+05	1.07E+05
1/20	-4.20	-5.77E+03	5.61E+03	-5.61E+03	5.53E+03	-1.12E+05	1.11E+05
1/15	-12.0	-7.72E+03	7.77E+03	-7.53E+03	7.68E+03	-1.13E+05	1.15E+05
1/10	-63.6	-1.26E+04	1.31E+04	-1.20E+04	1.26E+04	-1.19E+05	1.27E+05

Table R–1076. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\text{fk}} \rangle$	Unfiltered F_y^{fk}		Filtered F_y^{fk}		Filtered $\left(F_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.02	-1.78E+03	1.78E+03	-1.76E+03	1.78E+03	-1.06E+05	1.07E+05
1/20	-6.07	-5.34E+03	5.34E+03	-5.29E+03	5.33E+03	-1.06E+05	1.07E+05
1/15	-8.09	-7.12E+03	7.12E+03	-7.06E+03	7.11E+03	-1.06E+05	1.07E+05
1/10	-12.1	-1.07E+04	1.07E+04	-1.06E+04	1.07E+04	-1.06E+05	1.07E+05

Table R–1077. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.01	-1.76E+03	1.80E+03	-1.75E+03	1.78E+03	-1.05E+05	1.07E+05
1/20	0.452	-5.32E+03	5.21E+03	-5.26E+03	5.17E+03	-1.05E+05	1.03E+05
1/15	0.409	-6.85E+03	6.94E+03	-6.76E+03	6.88E+03	-1.01E+05	1.03E+05
1/10	-39.1	-1.05E+04	1.08E+04	-1.02E+04	1.06E+04	-1.02E+05	1.07E+05

Table R–1078. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-2.01	-1.76E+03	1.80E+03	-1.75E+03	1.78E+03	-1.05E+05	1.07E+05
1/20	0.452	-5.32E+03	5.21E+03	-5.26E+03	5.17E+03	-1.05E+05	1.03E+05
1/15	0.409	-6.85E+03	6.94E+03	-6.76E+03	6.88E+03	-1.01E+05	1.03E+05
1/10	-39.1	-1.05E+04	1.08E+04	-1.02E+04	1.06E+04	-1.02E+05	1.07E+05

Table R–1079. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1080. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	-8.65	-1.81E+03	1.80E+03	-1.79E+03	1.80E+03	-1.07E+05	1.09E+05
1/20	-56.4	-6.06E+03	5.33E+03	-5.98E+03	5.33E+03	-1.18E+05	1.08E+05
1/15	-63.7	-8.48E+03	7.25E+03	-8.40E+03	7.25E+03	-1.25E+05	1.10E+05
1/10	—	—	—	—	—	—	—

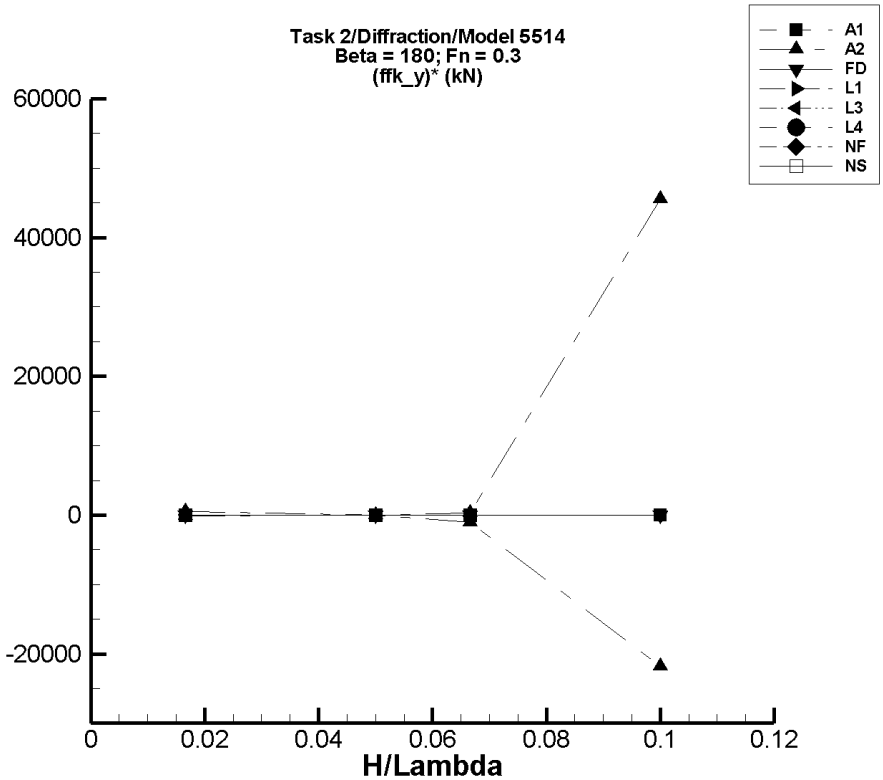

Figure R–136. Minimum and Maximum of $(F_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1081. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	6.05E-08	-5.81E-05	5.82E-05	-5.62E-05	5.63E-05	-3.37E-03	3.37E-03
1/20	1.81E-07	-1.74E-04	1.74E-04	-1.68E-04	1.68E-04	-3.36E-03	3.36E-03
1/15	2.41E-07	-2.32E-04	2.32E-04	-2.24E-04	2.24E-04	-3.36E-03	3.36E-03
1/10	3.62E-07	-3.48E-04	3.48E-04	-3.36E-04	3.37E-04	-3.36E-03	3.36E-03

Table R–1082. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	0.875	-9.10E-05	71.8	-0.821	9.57	-102.	522.
1/20	5.23E-04	-2.75E-02	1.58E-02	-2.15E-03	2.59E-03	-5.35E-02	4.14E-02
1/15	-11.6	-659.	35.9	-83.3	7.26	-1.08E+03	283.
1/10	1.61E+03	-1.17E+03	4.38E+04	-573.	6.16E+03	-2.18E+04	4.55E+04

Table R–1083. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-3.28E-04	-1.89E-03	2.30E-03	-1.10E-03	8.02E-04	-4.64E-02	6.78E-02
1/20	-1.82E-05	-1.32E-02	7.22E-03	-5.04E-03	3.04E-03	-0.100	6.11E-02
1/15	-1.24E-04	-2.19E-02	2.58E-02	-8.44E-03	3.70E-03	-0.125	5.73E-02
1/10	-3.62E-03	-5.46E-02	3.40E-02	-2.07E-02	6.48E-03	-0.171	0.101

Table R–1084. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1085. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1086. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1087. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1088. Minimum and Maximum of F_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{fk}} \rangle$ Mean (kN)	Unfiltered F_y^{fk} Min. (kN)	Unfiltered F_y^{fk} Max. (kN)	Filtered F_y^{fk} Min. (kN)	Filtered F_y^{fk} Max. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{fk}}\right)^*$ Max. (kN)
1/60	7.85E-05	-1.09E-03	1.87E-03	-2.75E-04	4.00E-04	-2.12E-02	1.93E-02
1/20	2.99E-05	-6.31E-03	5.03E-03	-5.96E-04	9.74E-04	-1.25E-02	1.89E-02
1/15	-1.21E-04	-8.84E-03	9.13E-03	-1.59E-03	1.21E-03	-2.20E-02	2.00E-02
1/10	—	—	—	—	—	—	—

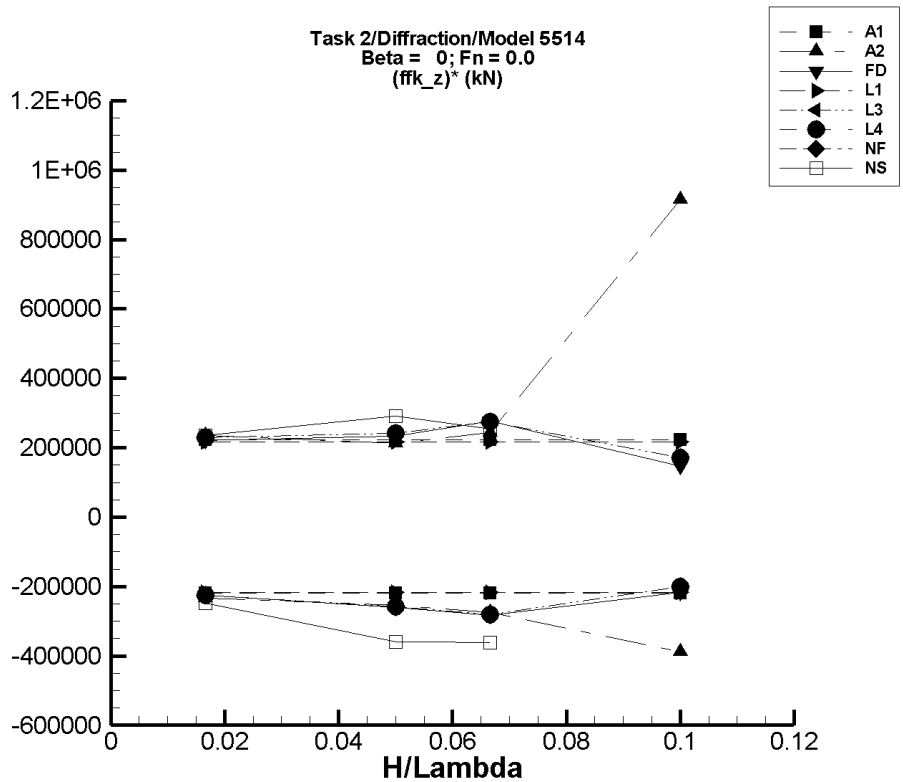

Figure R–137. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1089. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-3.99	-3.71E+03	3.71E+03	-3.67E+03	3.71E+03	-2.20E+05	2.23E+05
1/20	-11.9	-1.11E+04	1.11E+04	-1.10E+04	1.11E+04	-2.19E+05	2.22E+05
1/15	-15.9	-1.48E+04	1.48E+04	-1.46E+04	1.48E+04	-2.19E+05	2.22E+05
1/10	-23.9	-2.22E+04	2.22E+04	-2.20E+04	2.22E+04	-2.19E+05	2.22E+05

Table R–1090. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	917.	-3.02E+03	4.88E+03	-2.98E+03	4.83E+03	-2.34E+05	2.35E+05
1/20	8.63E+03	-4.22E+03	1.94E+04	-4.07E+03	1.93E+04	-2.54E+05	2.13E+05
1/15	1.22E+04	-6.49E+03	2.85E+04	-6.09E+03	2.84E+04	-2.74E+05	2.44E+05
1/10	1.98E+04	-4.01E+04	8.44E+05	-1.90E+04	1.11E+05	-3.88E+05	9.16E+05

Table R–1091. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	802.	-3.01E+03	4.54E+03	-2.96E+03	4.49E+03	-2.26E+05	2.22E+05
1/20	8.06E+03	-5.12E+03	1.98E+04	-4.97E+03	1.97E+04	-2.61E+05	2.33E+05
1/15	1.04E+04	-1.08E+04	2.90E+04	-8.41E+03	2.88E+04	-2.82E+05	2.76E+05
1/10	1.15E+04	-1.32E+04	2.83E+04	-1.02E+04	2.61E+04	-2.17E+05	1.46E+05

Table R–1092. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-1.44	-3.63E+03	3.63E+03	-3.62E+03	3.62E+03	-2.17E+05	2.17E+05
1/20	-4.33	-1.09E+04	1.09E+04	-1.09E+04	1.09E+04	-2.17E+05	2.17E+05
1/15	-5.77	-1.45E+04	1.45E+04	-1.45E+04	1.45E+04	-2.17E+05	2.17E+05
1/10	-8.66	-2.18E+04	2.18E+04	-2.17E+04	2.17E+04	-2.17E+05	2.17E+05

Table R–1093. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	287.	-3.49E+03	4.12E+03	-3.48E+03	4.10E+03	-2.26E+05	2.29E+05
1/20	4.28E+03	-8.72E+03	1.64E+04	-8.68E+03	1.64E+04	-2.59E+05	2.42E+05
1/15	4.78E+03	-1.52E+04	2.30E+04	-1.40E+04	2.30E+04	-2.81E+05	2.73E+05
1/10	2.24E+03	-1.98E+04	2.02E+04	-1.77E+04	1.93E+04	-2.00E+05	1.71E+05

Table R–1094. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	287.	-3.49E+03	4.12E+03	-3.48E+03	4.10E+03	-2.26E+05	2.29E+05
1/20	4.28E+03	-8.72E+03	1.64E+04	-8.68E+03	1.64E+04	-2.59E+05	2.42E+05
1/15	4.78E+03	-1.52E+04	2.30E+04	-1.40E+04	2.30E+04	-2.81E+05	2.73E+05
1/10	2.24E+03	-1.98E+04	2.02E+04	-1.77E+04	1.93E+04	-2.00E+05	1.71E+05

Table R–1095. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1096. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	263.	-3.92E+03	4.22E+03	-3.88E+03	4.19E+03	-2.48E+05	2.36E+05
1/20	2.57E+03	-1.56E+04	1.70E+04	-1.54E+04	1.71E+04	-3.59E+05	2.91E+05
1/15	6.02E+03	-1.82E+04	2.30E+04	-1.81E+04	2.30E+04	-3.61E+05	2.54E+05
1/10	—	—	—	—	—	—	—

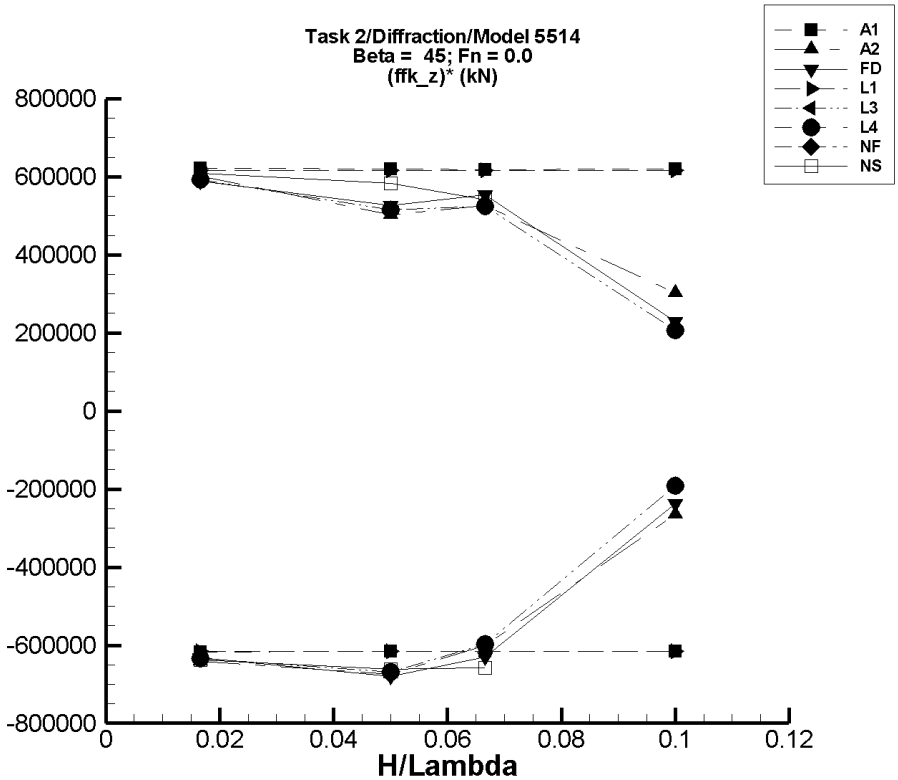

Figure R–138. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1097. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-9.84	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-6.18E+05	6.21E+05
1/20	-29.4	-3.12E+04	3.12E+04	-3.08E+04	3.09E+04	-6.16E+05	6.19E+05
1/15	-39.2	-4.15E+04	4.15E+04	-4.11E+04	4.12E+04	-6.15E+05	6.18E+05
1/10	-58.9	-6.24E+04	6.24E+04	-6.17E+04	6.19E+04	-6.16E+05	6.19E+05

Table R–1098. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	917.	-9.91E+03	1.11E+04	-9.79E+03	1.10E+04	-6.42E+05	6.02E+05
1/20	8.57E+03	-2.57E+04	3.39E+04	-2.51E+04	3.37E+04	-6.74E+05	5.03E+05
1/15	1.16E+04	-2.93E+04	4.70E+04	-2.85E+04	4.67E+04	-6.02E+05	5.26E+05
1/10	9.05E+03	-2.27E+04	5.53E+04	-1.75E+04	3.93E+04	-2.65E+05	3.02E+05

Table R–1099. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	806.	-9.87E+03	1.07E+04	-9.74E+03	1.06E+04	-6.33E+05	5.88E+05
1/20	7.98E+03	-2.65E+04	3.45E+04	-2.60E+04	3.43E+04	-6.79E+05	5.25E+05
1/15	1.00E+04	-3.28E+04	4.74E+04	-3.20E+04	4.70E+04	-6.30E+05	5.54E+05
1/10	1.13E+04	-1.29E+04	3.49E+04	-1.24E+04	3.43E+04	-2.37E+05	2.30E+05

Table R–1100. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-5.27	-1.03E+04	1.03E+04	-1.03E+04	1.03E+04	-6.16E+05	6.17E+05
1/20	-15.8	-3.09E+04	3.09E+04	-3.08E+04	3.08E+04	-6.16E+05	6.17E+05
1/15	-21.1	-4.13E+04	4.13E+04	-4.11E+04	4.11E+04	-6.16E+05	6.17E+05
1/10	-31.6	-6.19E+04	6.19E+04	-6.16E+04	6.16E+04	-6.16E+05	6.17E+05

Table R–1101. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	283.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.34E+05	5.93E+05
1/20	4.27E+03	-2.93E+04	3.01E+04	-2.92E+04	3.00E+04	-6.69E+05	5.15E+05
1/15	4.65E+03	-3.54E+04	3.97E+04	-3.51E+04	3.96E+04	-5.97E+05	5.24E+05
1/10	2.14E+03	-1.75E+04	2.35E+04	-1.71E+04	2.29E+04	-1.92E+05	2.07E+05

Table R–1102. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	283.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.34E+05	5.93E+05
1/20	4.27E+03	-2.93E+04	3.01E+04	-2.92E+04	3.00E+04	-6.69E+05	5.15E+05
1/15	4.65E+03	-3.54E+04	3.97E+04	-3.51E+04	3.96E+04	-5.97E+05	5.24E+05
1/10	2.14E+03	-1.75E+04	2.35E+04	-1.71E+04	2.29E+04	-1.92E+05	2.07E+05

Table R–1103. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1104. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	229.	-1.05E+04	1.04E+04	-1.04E+04	1.04E+04	-6.37E+05	6.08E+05
1/20	2.22E+03	-3.13E+04	3.14E+04	-3.09E+04	3.14E+04	-6.61E+05	5.84E+05
1/15	5.33E+03	-3.89E+04	4.13E+04	-3.85E+04	4.13E+04	-6.57E+05	5.40E+05
1/10	—	—	—	—	—	—	—

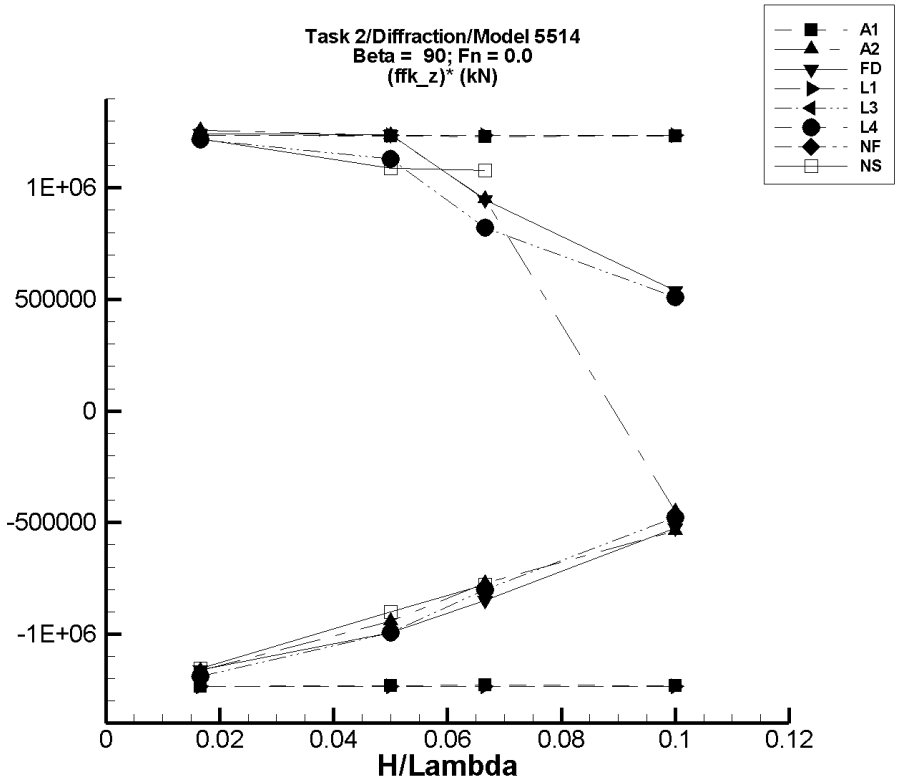

Figure R–139. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1105. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-15.1	-2.08E+04	2.08E+04	-2.06E+04	2.06E+04	-1.23E+06	1.24E+06
1/20	-45.2	-6.22E+04	6.22E+04	-6.16E+04	6.15E+04	-1.23E+06	1.23E+06
1/15	-60.2	-8.29E+04	8.28E+04	-8.20E+04	8.19E+04	-1.23E+06	1.23E+06
1/10	-90.5	-1.24E+05	1.24E+05	-1.23E+05	1.23E+05	-1.23E+06	1.23E+06

Table R–1106. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	915.	-1.87E+04	2.21E+04	-1.85E+04	2.19E+04	-1.17E+06	1.26E+06
1/20	8.32E+03	-3.93E+04	7.10E+04	-3.89E+04	7.02E+04	-9.44E+05	1.24E+06
1/15	1.20E+04	-4.02E+04	7.58E+04	-3.96E+04	7.53E+04	-7.73E+05	9.50E+05
1/10	3.32E+04	-2.04E+04	-1.19E+04	-2.04E+04	-1.19E+04	-5.37E+05	-4.52E+05

Table R–1107. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	808.	-1.87E+04	2.17E+04	-1.85E+04	2.15E+04	-1.16E+06	1.24E+06
1/20	8.08E+03	-4.19E+04	7.09E+04	-4.16E+04	7.01E+04	-9.93E+05	1.24E+06
1/15	1.07E+04	-4.60E+04	7.52E+04	-4.60E+04	7.38E+04	-8.50E+05	9.46E+05
1/10	1.34E+04	-4.11E+04	7.67E+04	-3.90E+04	6.73E+04	-5.24E+05	5.39E+05

Table R–1108. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	9.08	-2.07E+04	2.07E+04	-2.06E+04	2.06E+04	-1.24E+06	1.23E+06
1/20	27.2	-6.20E+04	6.20E+04	-6.18E+04	6.17E+04	-1.24E+06	1.23E+06
1/15	36.3	-8.26E+04	8.26E+04	-8.23E+04	8.23E+04	-1.24E+06	1.23E+06
1/10	54.4	-1.24E+05	1.24E+05	-1.24E+05	1.23E+05	-1.24E+06	1.23E+06

Table R–1109. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	304.	-1.96E+04	2.07E+04	-1.95E+04	2.06E+04	-1.19E+06	1.22E+06
1/20	4.45E+03	-4.53E+04	6.12E+04	-4.52E+04	6.10E+04	-9.92E+05	1.13E+06
1/15	5.37E+03	-4.81E+04	6.17E+04	-4.81E+04	6.02E+04	-8.02E+05	8.22E+05
1/10	5.10E+03	-4.34E+04	6.13E+04	-4.25E+04	5.60E+04	-4.76E+05	5.09E+05

Table R–1110. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	304.	-1.96E+04	2.07E+04	-1.95E+04	2.06E+04	-1.19E+06	1.22E+06
1/20	4.45E+03	-4.53E+04	6.12E+04	-4.52E+04	6.10E+04	-9.92E+05	1.13E+06
1/15	5.37E+03	-4.81E+04	6.17E+04	-4.81E+04	6.02E+04	-8.02E+05	8.22E+05
1/10	5.10E+03	-4.34E+04	6.13E+04	-4.25E+04	5.60E+04	-4.76E+05	5.09E+05

Table R–1111. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1112. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	194.	-1.92E+04	2.07E+04	-1.91E+04	2.05E+04	-1.16E+06	1.22E+06
1/20	1.93E+03	-4.33E+04	5.69E+04	-4.31E+04	5.64E+04	-9.01E+05	1.09E+06
1/15	4.74E+03	-4.73E+04	7.69E+04	-4.71E+04	7.65E+04	-7.78E+05	1.08E+06
1/10	—	—	—	—	—	—	—

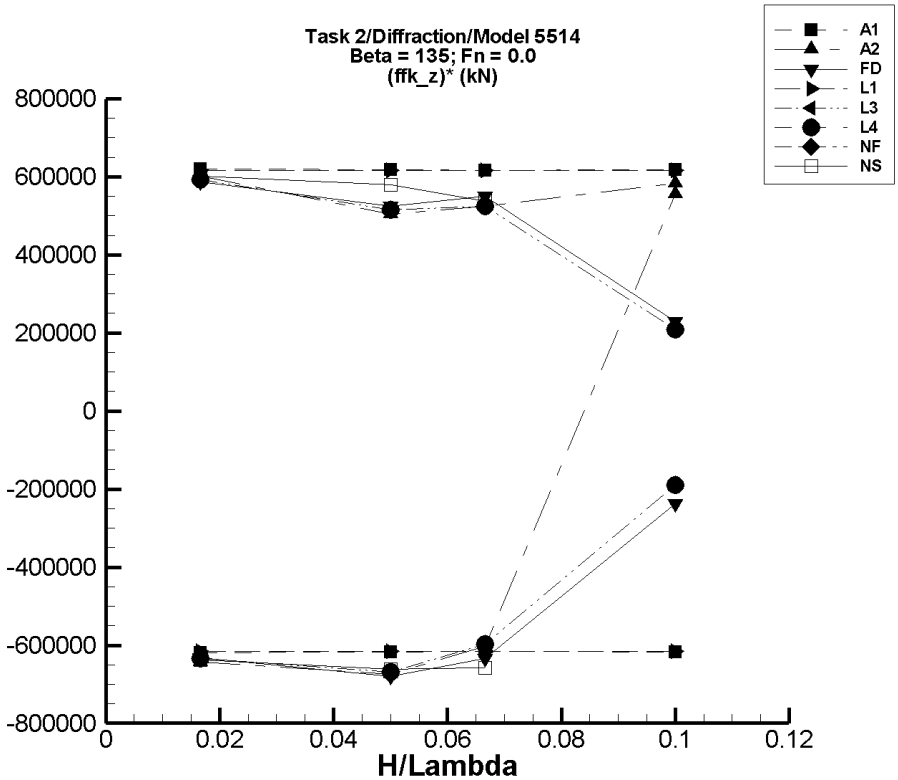

Figure R–140. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1113. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-4.88	-1.04E+04	1.04E+04	-1.03E+04	1.03E+04	-6.19E+05	6.19E+05
1/20	-14.6	-3.12E+04	3.12E+04	-3.09E+04	3.09E+04	-6.17E+05	6.17E+05
1/15	-19.4	-4.15E+04	4.15E+04	-4.11E+04	4.11E+04	-6.16E+05	6.17E+05
1/10	-29.2	-6.24E+04	6.24E+04	-6.17E+04	6.17E+04	-6.17E+05	6.17E+05

Table R–1114. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	923.	-9.91E+03	1.11E+04	-9.79E+03	1.10E+04	-6.43E+05	6.02E+05
1/20	8.54E+03	-2.57E+04	3.39E+04	-2.52E+04	3.37E+04	-6.74E+05	5.04E+05
1/15	1.17E+04	-2.93E+04	4.70E+04	-2.85E+04	4.66E+04	-6.02E+05	5.25E+05
1/10	-4.47E+04	1.09E+04	1.36E+04	1.09E+04	1.36E+04	5.56E+05	5.83E+05

Table R–1115. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	809.	-9.87E+03	1.07E+04	-9.74E+03	1.06E+04	-6.33E+05	5.87E+05
1/20	8.01E+03	-2.65E+04	3.45E+04	-2.60E+04	3.42E+04	-6.80E+05	5.25E+05
1/15	1.03E+04	-3.28E+04	4.74E+04	-3.20E+04	4.70E+04	-6.34E+05	5.50E+05
1/10	1.13E+04	-1.30E+04	3.49E+04	-1.24E+04	3.42E+04	-2.37E+05	2.28E+05

Table R–1116. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-0.148	-1.03E+04	1.03E+04	-1.03E+04	1.03E+04	-6.16E+05	6.16E+05
1/20	-0.446	-3.09E+04	3.09E+04	-3.08E+04	3.08E+04	-6.16E+05	6.16E+05
1/15	-0.602	-4.13E+04	4.13E+04	-4.11E+04	4.11E+04	-6.16E+05	6.16E+05
1/10	-0.890	-6.19E+04	6.19E+04	-6.16E+04	6.16E+04	-6.16E+05	6.16E+05

Table R–1117. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	291.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.34E+05	5.93E+05
1/20	4.28E+03	-2.93E+04	3.01E+04	-2.91E+04	3.00E+04	-6.68E+05	5.15E+05
1/15	4.69E+03	-3.54E+04	3.97E+04	-3.51E+04	3.96E+04	-5.97E+05	5.24E+05
1/10	2.02E+03	-1.74E+04	2.35E+04	-1.70E+04	2.29E+04	-1.90E+05	2.08E+05

Table R–1118. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	291.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.34E+05	5.93E+05
1/20	4.28E+03	-2.93E+04	3.01E+04	-2.91E+04	3.00E+04	-6.68E+05	5.15E+05
1/15	4.69E+03	-3.54E+04	3.97E+04	-3.51E+04	3.96E+04	-5.97E+05	5.24E+05
1/10	2.02E+03	-1.74E+04	2.35E+04	-1.70E+04	2.29E+04	-1.90E+05	2.08E+05

Table R–1119. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1120. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	229.	-1.05E+04	1.04E+04	-1.04E+04	1.03E+04	-6.38E+05	6.02E+05
1/20	2.21E+03	-3.13E+04	3.14E+04	-3.09E+04	3.12E+04	-6.61E+05	5.79E+05
1/15	5.29E+03	-3.89E+04	4.13E+04	-3.85E+04	4.11E+04	-6.57E+05	5.37E+05
1/10	—	—	—	—	—	—	—

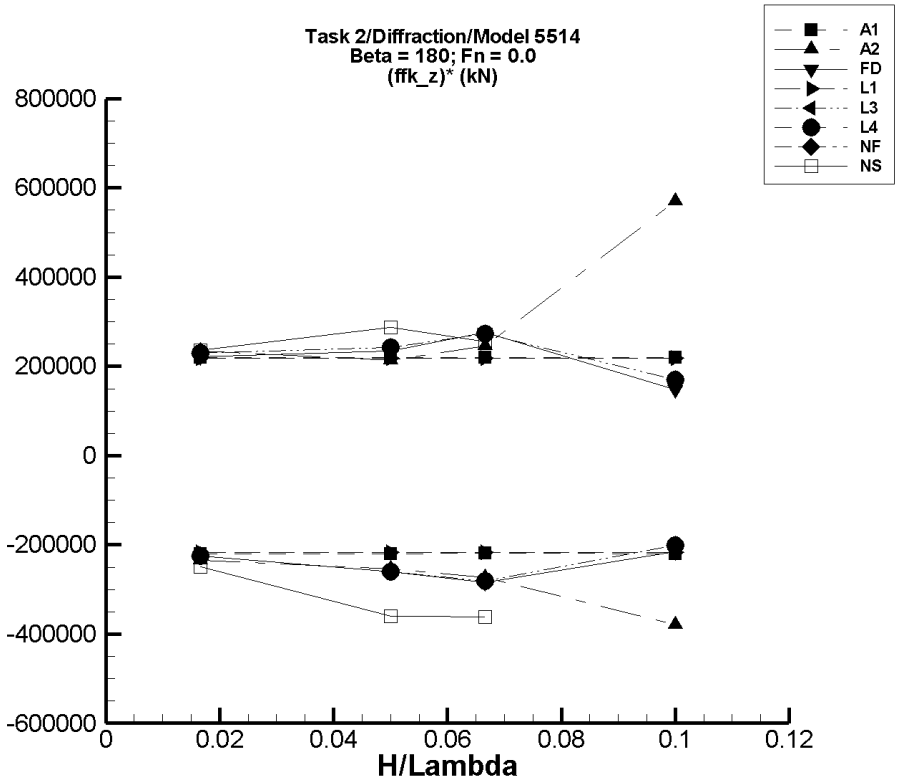

Figure R–141. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1121. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-0.910	-3.71E+03	3.71E+03	-3.67E+03	3.67E+03	-2.20E+05	2.20E+05
1/20	-2.72	-1.11E+04	1.11E+04	-1.10E+04	1.10E+04	-2.19E+05	2.20E+05
1/15	-3.62	-1.48E+04	1.48E+04	-1.46E+04	1.46E+04	-2.19E+05	2.19E+05
1/10	-5.45	-2.22E+04	2.22E+04	-2.20E+04	2.20E+04	-2.19E+05	2.20E+05

Table R–1122. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	921.	-3.02E+03	4.88E+03	-2.98E+03	4.83E+03	-2.34E+05	2.35E+05
1/20	8.58E+03	-4.23E+03	1.94E+04	-4.09E+03	1.93E+04	-2.53E+05	2.14E+05
1/15	1.20E+04	-6.56E+03	2.85E+04	-6.14E+03	2.85E+04	-2.73E+05	2.46E+05
1/10	1.61E+04	-4.01E+04	5.67E+05	-2.19E+04	7.31E+04	-3.79E+05	5.71E+05

Table R–1123. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	797.	-3.01E+03	4.54E+03	-2.96E+03	4.49E+03	-2.26E+05	2.22E+05
1/20	8.05E+03	-5.12E+03	1.98E+04	-4.97E+03	1.97E+04	-2.60E+05	2.34E+05
1/15	1.05E+04	-1.09E+04	2.90E+04	-8.53E+03	2.88E+04	-2.85E+05	2.76E+05
1/10	1.13E+04	-1.32E+04	2.82E+04	-1.03E+04	2.60E+04	-2.16E+05	1.47E+05

Table R–1124. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-0.829	-3.63E+03	3.63E+03	-3.62E+03	3.64E+03	-2.17E+05	2.18E+05
1/20	-2.49	-1.09E+04	1.09E+04	-1.09E+04	1.09E+04	-2.17E+05	2.18E+05
1/15	-3.32	-1.45E+04	1.45E+04	-1.45E+04	1.46E+04	-2.17E+05	2.18E+05
1/10	-4.98	-2.18E+04	2.18E+04	-2.17E+04	2.18E+04	-2.17E+05	2.18E+05

Table R–1125. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	283.	-3.49E+03	4.12E+03	-3.48E+03	4.10E+03	-2.26E+05	2.29E+05
1/20	4.30E+03	-8.73E+03	1.64E+04	-8.68E+03	1.64E+04	-2.60E+05	2.42E+05
1/15	4.80E+03	-1.51E+04	2.30E+04	-1.40E+04	2.30E+04	-2.82E+05	2.73E+05
1/10	2.29E+03	-1.98E+04	2.03E+04	-1.78E+04	1.93E+04	-2.00E+05	1.71E+05

Table R–1126. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	283.	-3.49E+03	4.12E+03	-3.48E+03	4.10E+03	-2.26E+05	2.29E+05
1/20	4.30E+03	-8.73E+03	1.64E+04	-8.68E+03	1.64E+04	-2.60E+05	2.42E+05
1/15	4.80E+03	-1.51E+04	2.30E+04	-1.40E+04	2.30E+04	-2.82E+05	2.73E+05
1/10	2.29E+03	-1.98E+04	2.03E+04	-1.78E+04	1.93E+04	-2.00E+05	1.71E+05

Table R–1127. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1128. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	266.	-3.92E+03	4.23E+03	-3.88E+03	4.20E+03	-2.49E+05	2.36E+05
1/20	2.57E+03	-1.56E+04	1.70E+04	-1.54E+04	1.69E+04	-3.60E+05	2.87E+05
1/15	6.02E+03	-1.83E+04	2.30E+04	-1.81E+04	2.31E+04	-3.62E+05	2.55E+05
1/10	—	—	—	—	—	—	—

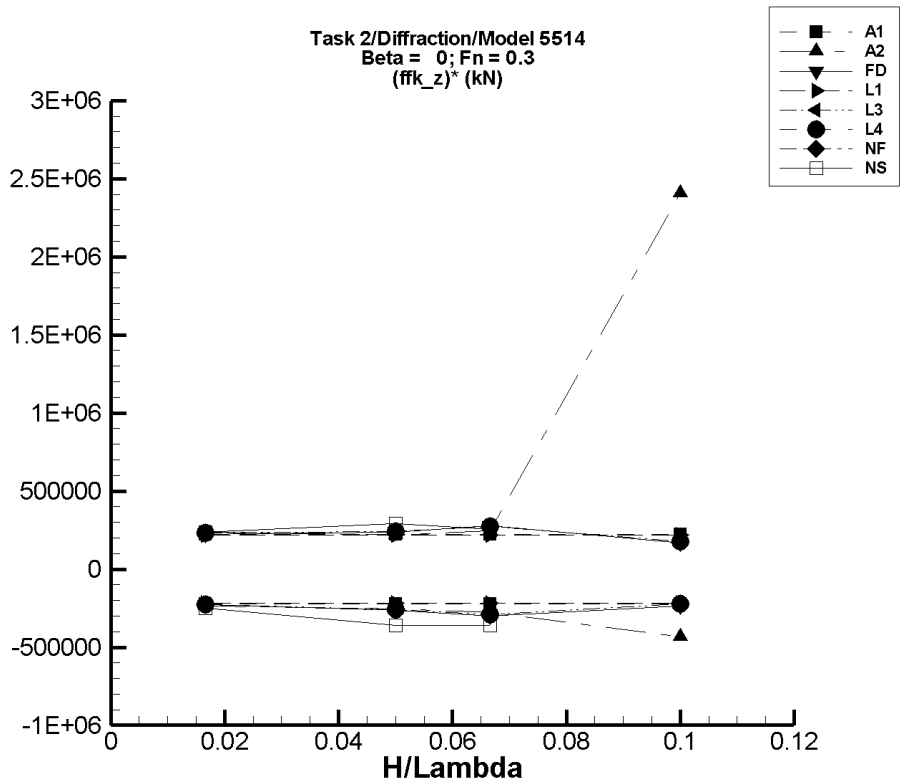

Figure R–142. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–1129. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	4.00	-3.74E+03	3.74E+03	-3.73E+03	3.73E+03	-2.24E+05	2.24E+05
1/20	12.0	-1.12E+04	1.12E+04	-1.12E+04	1.12E+04	-2.24E+05	2.23E+05
1/15	15.9	-1.49E+04	1.49E+04	-1.49E+04	1.49E+04	-2.23E+05	2.23E+05
1/10	23.9	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04	-2.24E+05	2.23E+05

Table R–1130. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	926.	-3.02E+03	4.88E+03	-3.02E+03	4.88E+03	-2.37E+05	2.37E+05
1/20	8.53E+03	-4.23E+03	1.94E+04	-4.22E+03	1.94E+04	-2.55E+05	2.17E+05
1/15	1.20E+04	-1.13E+04	2.85E+04	-6.50E+03	2.85E+04	-2.77E+05	2.48E+05
1/10	1.59E+04	-4.03E+04	1.16E+06	-2.74E+04	2.57E+05	-4.33E+05	2.41E+06

Table R–1131. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	801.	-3.01E+03	4.54E+03	-3.00E+03	4.54E+03	-2.28E+05	2.24E+05
1/20	8.02E+03	-5.12E+03	1.98E+04	-5.11E+03	1.98E+04	-2.63E+05	2.36E+05
1/15	1.04E+04	-1.10E+04	2.90E+04	-9.62E+03	2.90E+04	-3.00E+05	2.78E+05
1/10	1.11E+04	-1.35E+04	2.86E+04	-1.26E+04	2.81E+04	-2.38E+05	1.70E+05

Table R–1132. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.74	-3.66E+03	3.66E+03	-3.66E+03	3.66E+03	-2.20E+05	2.19E+05
1/20	8.22	-1.10E+04	1.10E+04	-1.10E+04	1.10E+04	-2.20E+05	2.19E+05
1/15	11.0	-1.46E+04	1.46E+04	-1.46E+04	1.46E+04	-2.20E+05	2.19E+05
1/10	16.4	-2.19E+04	2.19E+04	-2.19E+04	2.19E+04	-2.20E+05	2.19E+05

Table R–1133. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	286.	-3.49E+03	4.12E+03	-3.49E+03	4.12E+03	-2.27E+05	2.30E+05
1/20	4.30E+03	-8.73E+03	1.64E+04	-8.72E+03	1.64E+04	-2.60E+05	2.43E+05
1/15	4.79E+03	-1.54E+04	2.30E+04	-1.47E+04	2.30E+04	-2.93E+05	2.74E+05
1/10	2.22E+03	-1.99E+04	2.03E+04	-1.98E+04	2.01E+04	-2.20E+05	1.79E+05

Table R–1134. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	286.	-3.49E+03	4.12E+03	-3.49E+03	4.12E+03	-2.27E+05	2.30E+05
1/20	4.30E+03	-8.73E+03	1.64E+04	-8.72E+03	1.64E+04	-2.60E+05	2.43E+05
1/15	4.79E+03	-1.54E+04	2.30E+04	-1.47E+04	2.30E+04	-2.93E+05	2.74E+05
1/10	2.22E+03	-1.99E+04	2.03E+04	-1.98E+04	2.01E+04	-2.20E+05	1.79E+05

Table R–1135. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1136. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	269.	-3.92E+03	4.21E+03	-3.88E+03	4.18E+03	-2.49E+05	2.35E+05
1/20	2.59E+03	-1.56E+04	1.70E+04	-1.54E+04	1.71E+04	-3.59E+05	2.90E+05
1/15	6.04E+03	-1.82E+04	2.30E+04	-1.80E+04	2.30E+04	-3.61E+05	2.54E+05
1/10	—	—	—	—	—	—	—

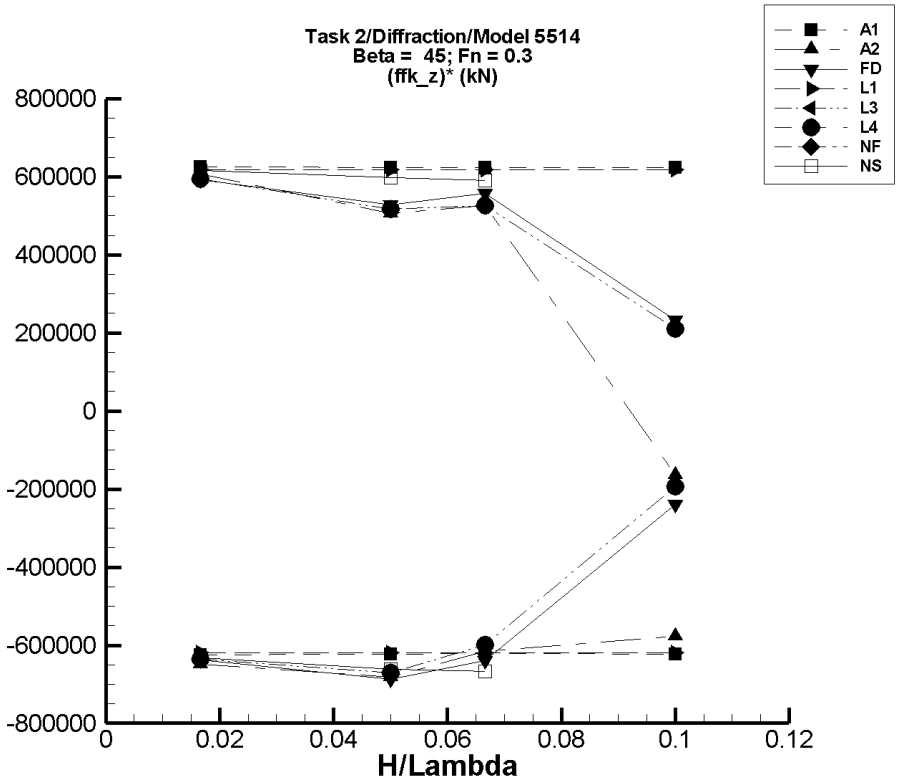

Figure R–143. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1137. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-15.8	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04	-6.24E+05	6.26E+05
1/20	-47.2	-3.12E+04	3.12E+04	-3.12E+04	3.12E+04	-6.22E+05	6.24E+05
1/15	-62.9	-4.16E+04	4.16E+04	-4.15E+04	4.15E+04	-6.21E+05	6.23E+05
1/10	-94.5	-6.25E+04	6.25E+04	-6.23E+04	6.23E+04	-6.22E+05	6.24E+05

Table R–1138. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	910.	-9.91E+03	1.11E+04	-9.89E+03	1.10E+04	-6.48E+05	6.07E+05
1/20	8.57E+03	-2.57E+04	3.39E+04	-2.55E+04	3.39E+04	-6.82E+05	5.06E+05
1/15	1.19E+04	-2.93E+04	4.70E+04	-2.91E+04	4.70E+04	-6.15E+05	5.26E+05
1/10	5.86E+04	799.	4.56E+04	926.	4.21E+04	-5.77E+05	-1.65E+05

Table R–1139. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	796.	-9.87E+03	1.07E+04	-9.84E+03	1.07E+04	-6.38E+05	5.93E+05
1/20	7.98E+03	-2.65E+04	3.45E+04	-2.64E+04	3.44E+04	-6.87E+05	5.28E+05
1/15	1.00E+04	-3.28E+04	4.74E+04	-3.26E+04	4.72E+04	-6.40E+05	5.58E+05
1/10	1.14E+04	-1.31E+04	3.50E+04	-1.25E+04	3.46E+04	-2.39E+05	2.33E+05

Table R–1140. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	2.04	-1.03E+04	1.03E+04	-1.03E+04	1.03E+04	-6.19E+05	6.19E+05
1/20	6.13	-3.10E+04	3.10E+04	-3.09E+04	3.09E+04	-6.19E+05	6.19E+05
1/15	8.17	-4.13E+04	4.13E+04	-4.13E+04	4.13E+04	-6.19E+05	6.19E+05
1/10	12.2	-6.19E+04	6.19E+04	-6.19E+04	6.19E+04	-6.19E+05	6.19E+05

Table R–1141. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	292.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.36E+05	5.94E+05
1/20	4.26E+03	-2.93E+04	3.01E+04	-2.93E+04	3.01E+04	-6.71E+05	5.17E+05
1/15	4.59E+03	-3.54E+04	3.97E+04	-3.53E+04	3.97E+04	-5.99E+05	5.26E+05
1/10	2.07E+03	-1.78E+04	2.35E+04	-1.72E+04	2.31E+04	-1.93E+05	2.10E+05

Table R–1142. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	292.	-1.03E+04	1.02E+04	-1.03E+04	1.02E+04	-6.36E+05	5.94E+05
1/20	4.26E+03	-2.93E+04	3.01E+04	-2.93E+04	3.01E+04	-6.71E+05	5.17E+05
1/15	4.59E+03	-3.54E+04	3.97E+04	-3.53E+04	3.97E+04	-5.99E+05	5.26E+05
1/10	2.07E+03	-1.78E+04	2.35E+04	-1.72E+04	2.31E+04	-1.93E+05	2.10E+05

Table R–1143. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1144. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-18.0	-1.07E+04	1.03E+04	-1.05E+04	1.02E+04	-6.32E+05	6.15E+05
1/20	350.	-3.32E+04	3.01E+04	-3.28E+04	3.02E+04	-6.62E+05	5.97E+05
1/15	564.	-4.42E+04	3.99E+04	-4.39E+04	4.00E+04	-6.67E+05	5.91E+05
1/10	—	—	—	—	—	—	—

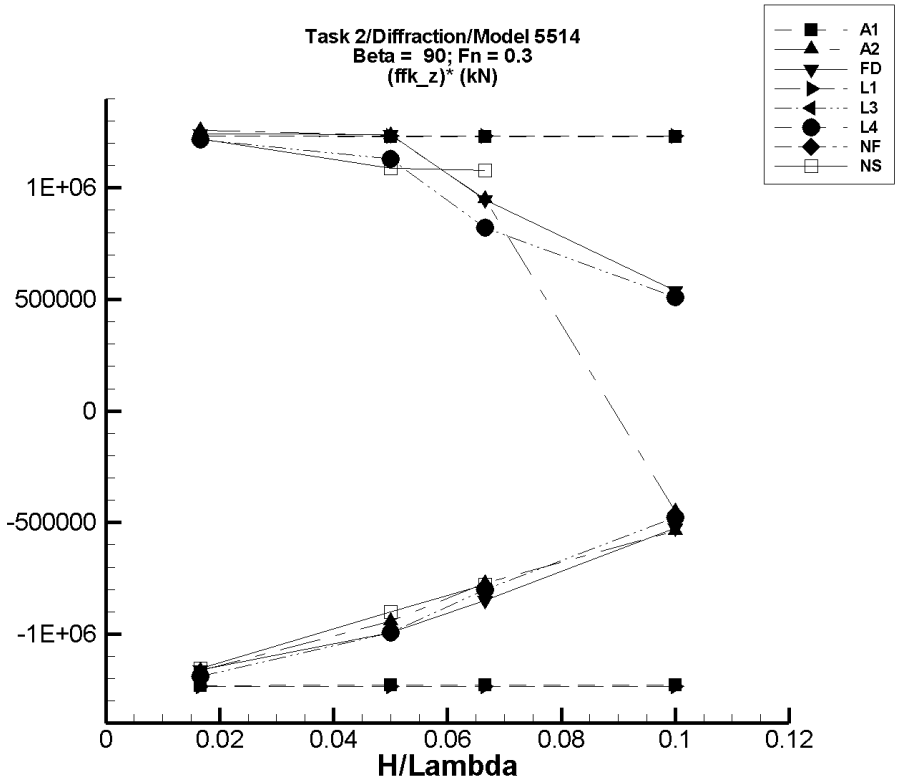

Figure R–144. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1145. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-15.1	-2.08E+04	2.08E+04	-2.05E+04	2.05E+04	-1.23E+06	1.23E+06
1/20	-45.2	-6.22E+04	6.21E+04	-6.15E+04	6.14E+04	-1.23E+06	1.23E+06
1/15	-60.2	-8.28E+04	8.27E+04	-8.18E+04	8.18E+04	-1.23E+06	1.23E+06
1/10	-90.4	-1.24E+05	1.24E+05	-1.23E+05	1.23E+05	-1.23E+06	1.23E+06

Table R–1146. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	915.	-1.87E+04	2.21E+04	-1.85E+04	2.19E+04	-1.17E+06	1.26E+06
1/20	8.32E+03	-3.93E+04	7.10E+04	-3.89E+04	7.02E+04	-9.44E+05	1.24E+06
1/15	1.20E+04	-4.02E+04	7.58E+04	-3.96E+04	7.53E+04	-7.73E+05	9.50E+05
1/10	3.32E+04	-2.04E+04	-1.19E+04	-2.04E+04	-1.19E+04	-5.37E+05	-4.52E+05

Table R–1147. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	808.	-1.87E+04	2.17E+04	-1.85E+04	2.15E+04	-1.16E+06	1.24E+06
1/20	8.08E+03	-4.19E+04	7.09E+04	-4.16E+04	7.01E+04	-9.93E+05	1.24E+06
1/15	1.07E+04	-4.60E+04	7.52E+04	-4.60E+04	7.38E+04	-8.50E+05	9.46E+05
1/10	1.34E+04	-4.11E+04	7.67E+04	-3.90E+04	6.73E+04	-5.24E+05	5.39E+05

Table R–1148. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	9.06	-2.06E+04	2.06E+04	-2.06E+04	2.05E+04	-1.23E+06	1.23E+06
1/20	27.2	-6.19E+04	6.19E+04	-6.17E+04	6.16E+04	-1.23E+06	1.23E+06
1/15	36.2	-8.25E+04	8.25E+04	-8.22E+04	8.22E+04	-1.23E+06	1.23E+06
1/10	54.4	-1.24E+05	1.24E+05	-1.23E+05	1.23E+05	-1.23E+06	1.23E+06

Table R–1149. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	304.	-1.96E+04	2.07E+04	-1.95E+04	2.06E+04	-1.19E+06	1.22E+06
1/20	4.45E+03	-4.53E+04	6.12E+04	-4.52E+04	6.10E+04	-9.92E+05	1.13E+06
1/15	5.37E+03	-4.81E+04	6.17E+04	-4.81E+04	6.02E+04	-8.02E+05	8.22E+05
1/10	5.10E+03	-4.34E+04	6.13E+04	-4.25E+04	5.60E+04	-4.76E+05	5.09E+05

Table R–1150. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	304.	-1.96E+04	2.07E+04	-1.95E+04	2.06E+04	-1.19E+06	1.22E+06
1/20	4.45E+03	-4.53E+04	6.12E+04	-4.52E+04	6.10E+04	-9.92E+05	1.13E+06
1/15	5.37E+03	-4.81E+04	6.17E+04	-4.81E+04	6.02E+04	-8.02E+05	8.22E+05
1/10	5.10E+03	-4.34E+04	6.13E+04	-4.25E+04	5.60E+04	-4.76E+05	5.09E+05

Table R–1151. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1152. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	194.	-1.92E+04	2.07E+04	-1.91E+04	2.05E+04	-1.15E+06	1.22E+06
1/20	1.93E+03	-4.33E+04	5.69E+04	-4.31E+04	5.64E+04	-9.01E+05	1.09E+06
1/15	4.74E+03	-4.73E+04	7.69E+04	-4.71E+04	7.65E+04	-7.78E+05	1.08E+06
1/10	—	—	—	—	—	—	—

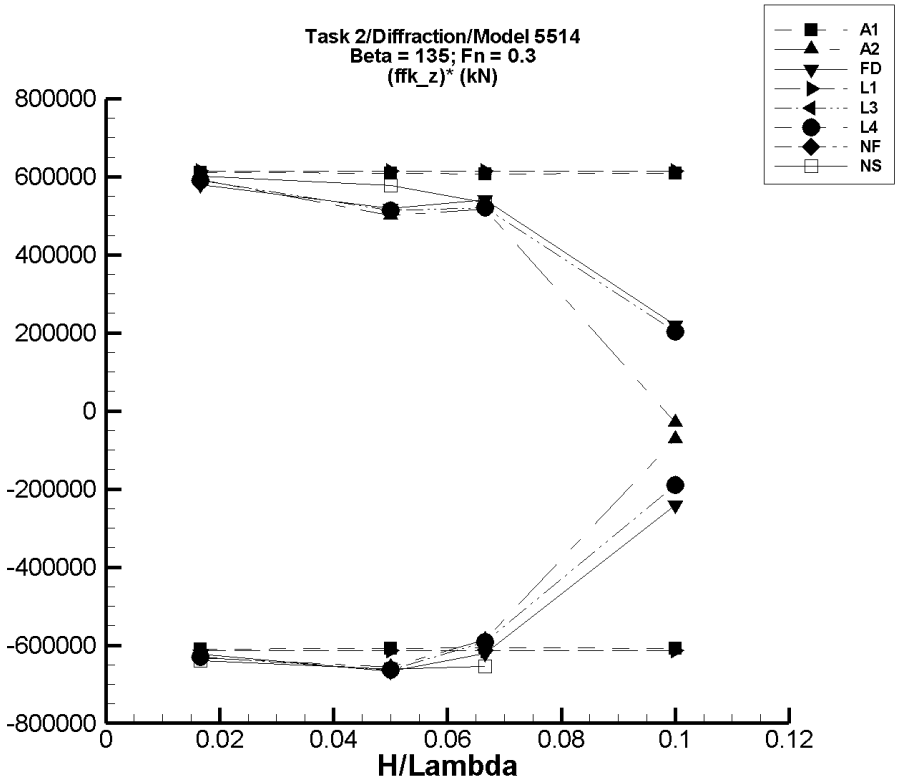

Figure R–145. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1153. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-6.84	-1.04E+04	1.04E+04	-1.02E+04	1.02E+04	-6.10E+05	6.10E+05
1/20	-20.5	-3.12E+04	3.12E+04	-3.04E+04	3.04E+04	-6.08E+05	6.08E+05
1/15	-27.3	-4.16E+04	4.15E+04	-4.05E+04	4.05E+04	-6.07E+05	6.08E+05
1/10	-41.0	-6.24E+04	6.24E+04	-6.08E+04	6.08E+04	-6.08E+05	6.08E+05

Table R–1154. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	923.	-9.91E+03	1.10E+04	-9.61E+03	1.08E+04	-6.32E+05	5.93E+05
1/20	8.49E+03	-2.57E+04	3.39E+04	-2.43E+04	3.35E+04	-6.56E+05	5.01E+05
1/15	1.16E+04	-2.93E+04	4.70E+04	-2.75E+04	4.61E+04	-5.87E+05	5.17E+05
1/10	1.58E+04	8.52E+03	1.28E+04	8.52E+03	1.28E+04	-7.25E+04	-2.99E+04

Table R–1155. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	815.	-9.86E+03	1.07E+04	-9.56E+03	1.05E+04	-6.23E+05	5.79E+05
1/20	8.06E+03	-2.65E+04	3.45E+04	-2.53E+04	3.40E+04	-6.68E+05	5.19E+05
1/15	1.03E+04	-3.28E+04	4.74E+04	-3.10E+04	4.64E+04	-6.21E+05	5.41E+05
1/10	1.14E+04	-1.29E+04	3.50E+04	-1.27E+04	3.34E+04	-2.41E+05	2.20E+05

Table R–1156. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-2.92	-1.03E+04	1.03E+04	-1.02E+04	1.02E+04	-6.13E+05	6.14E+05
1/20	-8.76	-3.10E+04	3.10E+04	-3.07E+04	3.07E+04	-6.13E+05	6.14E+05
1/15	-11.7	-4.13E+04	4.13E+04	-4.09E+04	4.09E+04	-6.13E+05	6.14E+05
1/10	-17.5	-6.19E+04	6.19E+04	-6.14E+04	6.14E+04	-6.13E+05	6.14E+05

Table R–1157. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	288.	-1.03E+04	1.02E+04	-1.02E+04	1.01E+04	-6.30E+05	5.90E+05
1/20	4.25E+03	-2.93E+04	3.01E+04	-2.89E+04	2.99E+04	-6.63E+05	5.14E+05
1/15	4.64E+03	-3.54E+04	3.97E+04	-3.48E+04	3.94E+04	-5.91E+05	5.21E+05
1/10	1.90E+03	-1.78E+04	2.36E+04	-1.71E+04	2.22E+04	-1.90E+05	2.03E+05

Table R–1158. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	288.	-1.03E+04	1.02E+04	-1.02E+04	1.01E+04	-6.30E+05	5.90E+05
1/20	4.25E+03	-2.93E+04	3.01E+04	-2.89E+04	2.99E+04	-6.63E+05	5.14E+05
1/15	4.64E+03	-3.54E+04	3.97E+04	-3.48E+04	3.94E+04	-5.91E+05	5.21E+05
1/10	1.90E+03	-1.78E+04	2.36E+04	-1.71E+04	2.22E+04	-1.90E+05	2.03E+05

Table R–1159. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1160. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	249.	-1.05E+04	1.04E+04	-1.04E+04	1.03E+04	-6.39E+05	6.02E+05
1/20	2.41E+03	-3.11E+04	3.15E+04	-3.06E+04	3.12E+04	-6.61E+05	5.77E+05
1/15	5.70E+03	-3.83E+04	4.14E+04	-3.79E+04	4.12E+04	-6.54E+05	5.33E+05
1/10	—	—	—	—	—	—	—

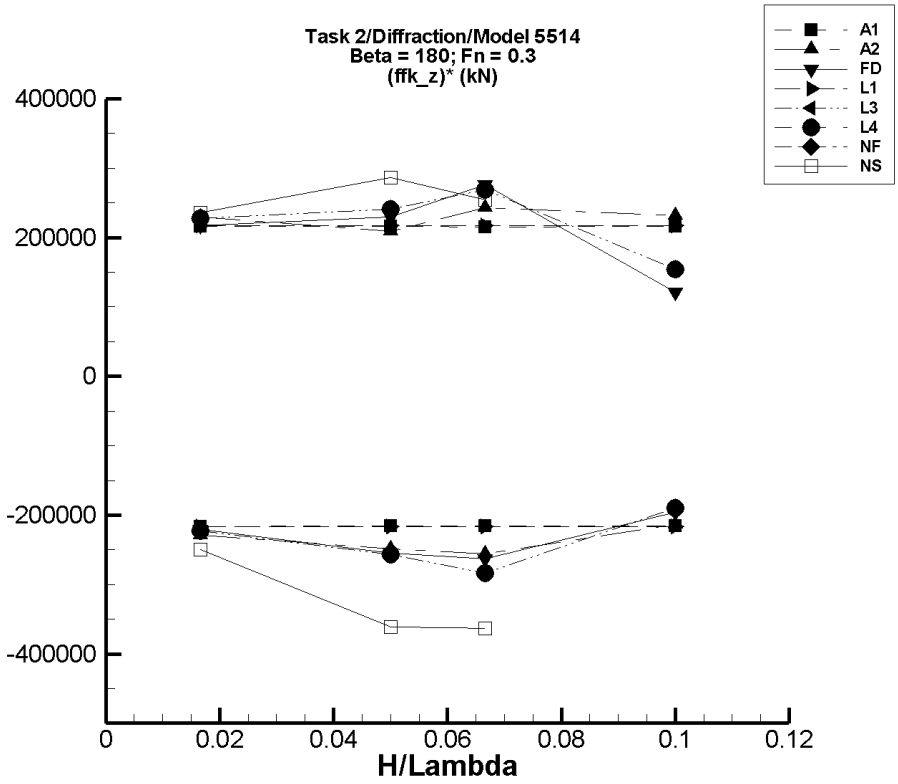

Figure R–146. Minimum and Maximum of $(F_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1161. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	0.819	-3.73E+03	3.73E+03	-3.61E+03	3.60E+03	-2.17E+05	2.16E+05
1/20	2.45	-1.12E+04	1.12E+04	-1.08E+04	1.08E+04	-2.16E+05	2.16E+05
1/15	3.26	-1.49E+04	1.49E+04	-1.44E+04	1.44E+04	-2.16E+05	2.15E+05
1/10	4.90	-2.23E+04	2.23E+04	-2.16E+04	2.16E+04	-2.16E+05	2.16E+05

Table R–1162. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	918.	-3.02E+03	4.87E+03	-2.89E+03	4.74E+03	-2.29E+05	2.29E+05
1/20	8.67E+03	-4.22E+03	1.94E+04	-3.76E+03	1.91E+04	-2.49E+05	2.09E+05
1/15	1.21E+04	-6.47E+03	2.85E+04	-4.92E+03	2.83E+04	-2.55E+05	2.43E+05
1/10	8.94E+03	-4.00E+04	4.87E+04	-1.25E+04	3.21E+04	-2.14E+05	2.32E+05

Table R–1163. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	797.	-3.01E+03	4.54E+03	-2.88E+03	4.42E+03	-2.21E+05	2.17E+05
1/20	8.02E+03	-5.12E+03	1.98E+04	-4.71E+03	1.95E+04	-2.55E+05	2.30E+05
1/15	1.03E+04	-1.02E+04	2.90E+04	-7.28E+03	2.87E+04	-2.63E+05	2.76E+05
1/10	1.15E+04	-1.35E+04	2.85E+04	-8.15E+03	2.36E+04	-1.96E+05	1.21E+05

Table R–1164. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	-8.37	-3.66E+03	3.66E+03	-3.61E+03	3.61E+03	-2.16E+05	2.17E+05
1/20	-25.1	-1.10E+04	1.10E+04	-1.08E+04	1.08E+04	-2.16E+05	2.17E+05
1/15	-33.5	-1.46E+04	1.46E+04	-1.44E+04	1.45E+04	-2.16E+05	2.17E+05
1/10	-50.2	-2.19E+04	2.19E+04	-2.17E+04	2.17E+04	-2.16E+05	2.17E+05

Table R–1165. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	269.	-3.49E+03	4.12E+03	-3.45E+03	4.07E+03	-2.23E+05	2.28E+05
1/20	4.28E+03	-8.72E+03	1.64E+04	-8.58E+03	1.63E+04	-2.57E+05	2.41E+05
1/15	5.05E+03	-1.52E+04	2.30E+04	-1.39E+04	2.30E+04	-2.84E+05	2.69E+05
1/10	2.16E+03	-1.98E+04	2.00E+04	-1.68E+04	1.75E+04	-1.89E+05	1.54E+05

Table R–1166. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	269.	-3.49E+03	4.12E+03	-3.45E+03	4.07E+03	-2.23E+05	2.28E+05
1/20	4.28E+03	-8.72E+03	1.64E+04	-8.58E+03	1.63E+04	-2.57E+05	2.41E+05
1/15	5.05E+03	-1.52E+04	2.30E+04	-1.39E+04	2.30E+04	-2.84E+05	2.69E+05
1/10	2.16E+03	-1.98E+04	2.00E+04	-1.68E+04	1.75E+04	-1.89E+05	1.54E+05

Table R–1167. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1168. Minimum and Maximum of F_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{fk}} \rangle$ Mean (kN)	Unfiltered F_z^{fk} Min. (kN)	Unfiltered F_z^{fk} Max. (kN)	Filtered F_z^{fk} Min. (kN)	Filtered F_z^{fk} Max. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{fk}}\right)^*$ Max. (kN)
1/60	270.	-3.93E+03	4.23E+03	-3.88E+03	4.20E+03	-2.49E+05	2.36E+05
1/20	2.60E+03	-1.56E+04	1.70E+04	-1.54E+04	1.69E+04	-3.61E+05	2.87E+05
1/15	6.07E+03	-1.83E+04	2.29E+04	-1.81E+04	2.30E+04	-3.63E+05	2.54E+05
1/10	—	—	—	—	—	—	—

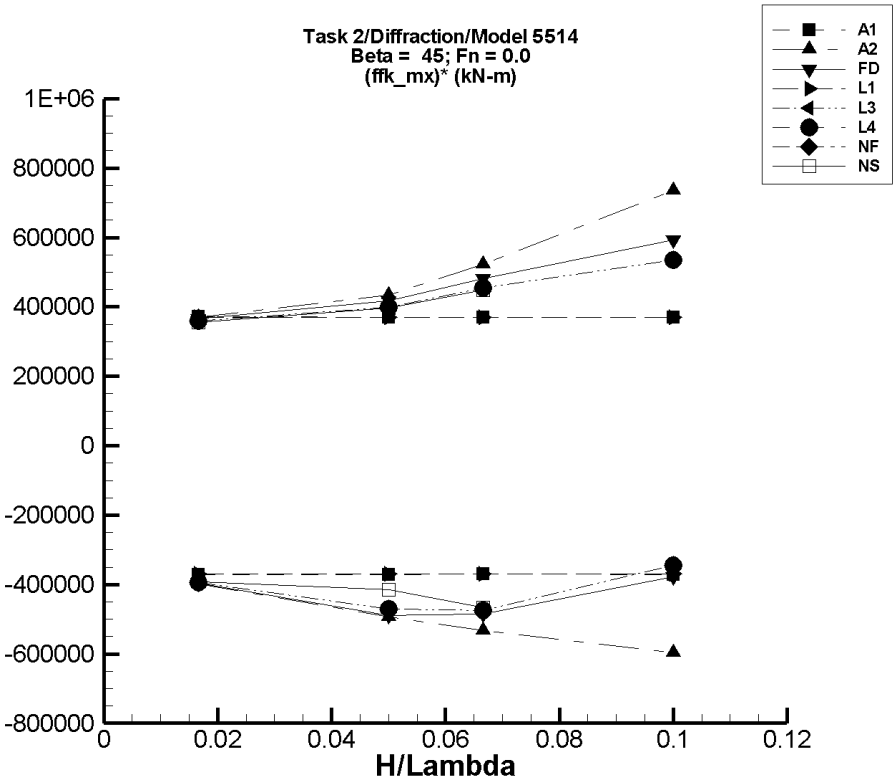

Figure R–147. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1169. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	3.13	-6.26E+03	6.26E+03	-6.19E+03	6.19E+03	-3.72E+05	3.71E+05
1/20	9.37	-1.87E+04	1.87E+04	-1.85E+04	1.85E+04	-3.71E+05	3.70E+05
1/15	12.5	-2.49E+04	2.49E+04	-2.47E+04	2.46E+04	-3.70E+05	3.70E+05
1/10	18.7	-3.74E+04	3.74E+04	-3.70E+04	3.70E+04	-3.71E+05	3.70E+05

Table R–1170. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-9.52	-6.72E+03	6.28E+03	-6.63E+03	6.16E+03	-3.97E+05	3.70E+05
1/20	-317.	-2.54E+04	2.17E+04	-2.50E+04	2.14E+04	-4.93E+05	4.34E+05
1/15	-1.14E+03	-5.56E+04	3.40E+04	-3.67E+04	3.37E+04	-5.33E+05	5.22E+05
1/10	23.8	-2.96E+05	2.67E+05	-5.97E+04	7.35E+04	-5.97E+05	7.34E+05

Table R–1171. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-11.9	-6.69E+03	6.14E+03	-6.61E+03	6.07E+03	-3.96E+05	3.65E+05
1/20	-16.8	-2.49E+04	2.11E+04	-2.45E+04	2.09E+04	-4.89E+05	4.18E+05
1/15	-586.	-3.58E+04	3.21E+04	-3.30E+04	3.14E+04	-4.86E+05	4.80E+05
1/10	-218.	-4.39E+04	6.48E+04	-3.79E+04	5.90E+04	-3.77E+05	5.92E+05

Table R–1172. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	2.08	-6.19E+03	6.19E+03	-6.16E+03	6.16E+03	-3.70E+05	3.70E+05
1/20	6.23	-1.86E+04	1.86E+04	-1.85E+04	1.85E+04	-3.70E+05	3.70E+05
1/15	8.30	-2.48E+04	2.48E+04	-2.47E+04	2.47E+04	-3.70E+05	3.70E+05
1/10	12.4	-3.71E+04	3.71E+04	-3.70E+04	3.70E+04	-3.70E+05	3.70E+05

Table R–1173. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-6.02	-6.62E+03	6.01E+03	-6.59E+03	5.98E+03	-3.95E+05	3.59E+05
1/20	-51.1	-2.37E+04	2.00E+04	-2.36E+04	1.99E+04	-4.70E+05	3.99E+05
1/15	-841.	-3.33E+04	2.96E+04	-3.25E+04	2.94E+04	-4.75E+05	4.54E+05
1/10	201.	-4.16E+04	5.54E+04	-3.42E+04	5.37E+04	-3.44E+05	5.35E+05

Table R–1174. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-6.02	-6.62E+03	6.01E+03	-6.59E+03	5.98E+03	-3.95E+05	3.59E+05
1/20	-51.1	-2.37E+04	2.00E+04	-2.36E+04	1.99E+04	-4.70E+05	3.99E+05
1/15	-841.	-3.33E+04	2.96E+04	-3.25E+04	2.94E+04	-4.75E+05	4.54E+05
1/10	201.	-4.16E+04	5.54E+04	-3.42E+04	5.37E+04	-3.44E+05	5.35E+05

Table R–1175. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1176. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	18.8	-6.61E+03	5.99E+03	-6.53E+03	5.93E+03	-3.93E+05	3.54E+05
1/20	81.2	-2.09E+04	2.02E+04	-2.07E+04	1.99E+04	-4.15E+05	3.96E+05
1/15	108.	-3.13E+04	3.03E+04	-3.10E+04	3.00E+04	-4.67E+05	4.49E+05
1/10	—	—	—	—	—	—	—

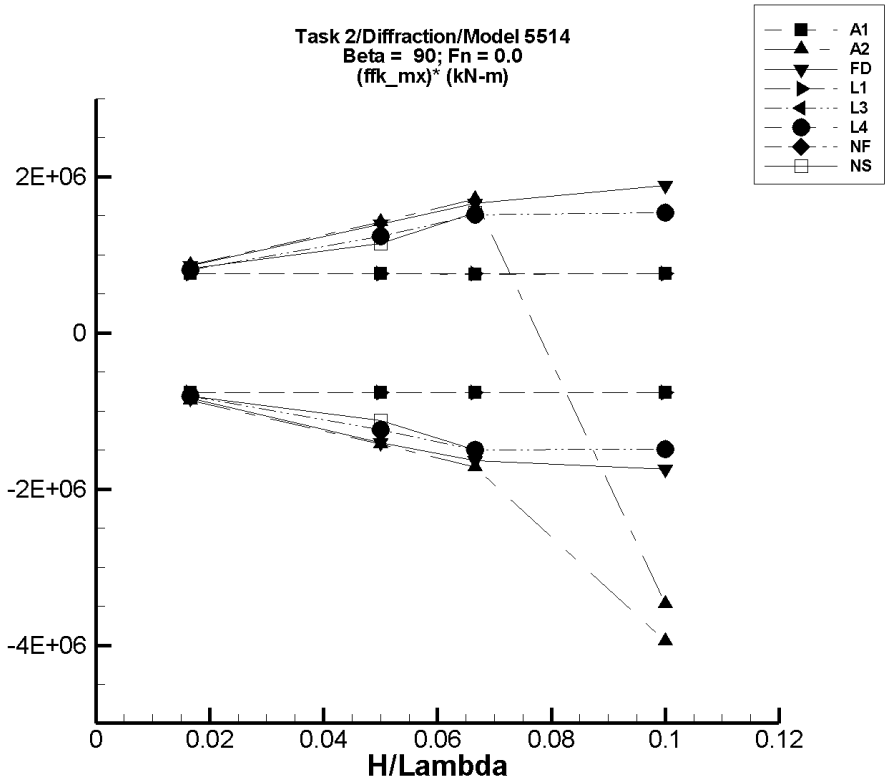

Figure R–148. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1177. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	12.7	-1.28E+04	1.28E+04	-1.28E+04	1.26E+04	-7.67E+05	7.58E+05
1/20	37.9	-3.82E+04	3.82E+04	-3.82E+04	3.78E+04	-7.64E+05	7.55E+05
1/15	50.4	-5.09E+04	5.09E+04	-5.08E+04	5.03E+04	-7.63E+05	7.54E+05
1/10	75.7	-7.65E+04	7.65E+04	-7.64E+04	7.56E+04	-7.64E+05	7.55E+05

Table R–1178. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.91	-1.47E+04	1.47E+04	-1.45E+04	1.45E+04	-8.69E+05	8.67E+05
1/20	259.	-7.30E+04	7.30E+04	-7.11E+04	7.11E+04	-1.43E+06	1.42E+06
1/15	96.8	-1.27E+05	1.27E+05	-1.14E+05	1.14E+05	-1.72E+06	1.71E+06
1/10	5.41E+05	1.46E+05	1.94E+05	1.46E+05	1.94E+05	-3.95E+06	-3.47E+06

Table R–1179. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.45	-1.42E+04	1.42E+04	-1.40E+04	1.43E+04	-8.39E+05	8.58E+05
1/20	247.	-7.20E+04	7.20E+04	-6.99E+04	6.98E+04	-1.40E+06	1.39E+06
1/15	41.1	-1.22E+05	1.21E+05	-1.09E+05	1.11E+05	-1.64E+06	1.66E+06
1/10	-2.36E+03	-1.94E+05	1.94E+05	-1.77E+05	1.86E+05	-1.75E+06	1.89E+06

Table R–1180. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	8.81	-1.27E+04	1.27E+04	-1.27E+04	1.27E+04	-7.62E+05	7.59E+05
1/20	26.4	-3.81E+04	3.81E+04	-3.81E+04	3.80E+04	-7.62E+05	7.59E+05
1/15	35.2	-5.08E+04	5.08E+04	-5.08E+04	5.06E+04	-7.62E+05	7.59E+05
1/10	52.8	-7.62E+04	7.62E+04	-7.62E+04	7.59E+04	-7.62E+05	7.59E+05

Table R–1181. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	9.42	-1.35E+04	1.35E+04	-1.35E+04	1.35E+04	-8.09E+05	8.08E+05
1/20	89.2	-6.27E+04	6.27E+04	-6.21E+04	6.21E+04	-1.24E+06	1.24E+06
1/15	-324.	-1.08E+05	1.08E+05	-1.01E+05	1.01E+05	-1.50E+06	1.52E+06
1/10	-2.22E+03	-1.63E+05	1.70E+05	-1.51E+05	1.51E+05	-1.49E+06	1.54E+06

Table R–1182. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	9.42	-1.35E+04	1.35E+04	-1.35E+04	1.35E+04	-8.09E+05	8.08E+05
1/20	89.2	-6.27E+04	6.27E+04	-6.21E+04	6.21E+04	-1.24E+06	1.24E+06
1/15	-324.	-1.08E+05	1.08E+05	-1.01E+05	1.01E+05	-1.50E+06	1.52E+06
1/10	-2.22E+03	-1.63E+05	1.70E+05	-1.51E+05	1.51E+05	-1.49E+06	1.54E+06

Table R–1183. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1184. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	28.5	-1.36E+04	1.39E+04	-1.34E+04	1.37E+04	-8.07E+05	8.20E+05
1/20	46.8	-5.75E+04	5.91E+04	-5.59E+04	5.74E+04	-1.12E+06	1.15E+06
1/15	-131.	-1.02E+05	1.04E+05	-1.00E+05	1.02E+05	-1.50E+06	1.54E+06
1/10	—	—	—	—	—	—	—

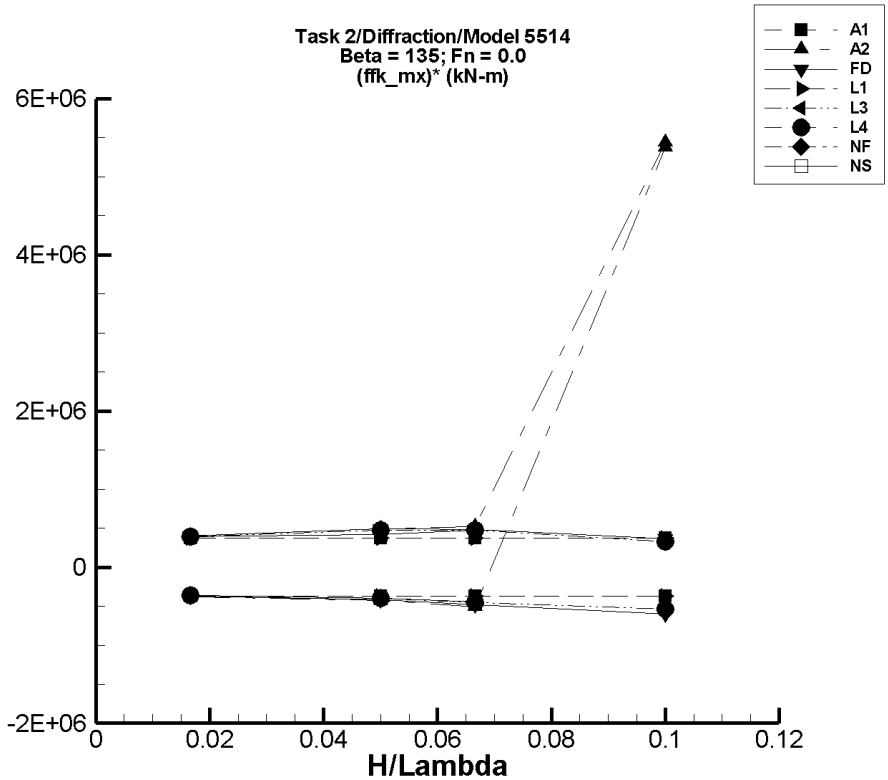

Figure R–149. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1185. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	7.64	-6.26E+03	6.26E+03	-6.20E+03	6.19E+03	-3.72E+05	3.71E+05
1/20	22.9	-1.87E+04	1.87E+04	-1.85E+04	1.85E+04	-3.71E+05	3.70E+05
1/15	30.4	-2.49E+04	2.49E+04	-2.47E+04	2.47E+04	-3.71E+05	3.69E+05
1/10	45.7	-3.75E+04	3.74E+04	-3.71E+04	3.70E+04	-3.71E+05	3.70E+05

Table R–1186. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	12.7	-6.73E+03	6.71E+03	-6.31E+03	6.63E+03	-3.80E+05	3.97E+05
1/20	337.	-2.17E+04	2.54E+04	-2.09E+04	2.50E+04	-4.25E+05	4.92E+05
1/15	462.	-3.40E+04	3.91E+04	-3.32E+04	3.53E+04	-5.05E+05	5.22E+05
1/10	-5.88E+05	-4.99E+04	-4.40E+04	-4.99E+04	-4.40E+04	5.38E+06	5.44E+06

Table R–1187. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	8.19	-6.14E+03	6.69E+03	-6.18E+03	6.61E+03	-3.72E+05	3.96E+05
1/20	67.2	-2.11E+04	2.49E+04	-2.09E+04	2.45E+04	-4.19E+05	4.89E+05
1/15	745.	-3.21E+04	3.59E+04	-3.15E+04	3.29E+04	-4.83E+05	4.83E+05
1/10	739.	-6.49E+04	4.36E+04	-5.92E+04	3.73E+04	-5.99E+05	3.66E+05

Table R–1188. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	5.56E-02	-6.19E+03	6.19E+03	-6.16E+03	6.16E+03	-3.70E+05	3.70E+05
1/20	0.164	-1.86E+04	1.86E+04	-1.85E+04	1.85E+04	-3.70E+05	3.70E+05
1/15	0.225	-2.48E+04	2.47E+04	-2.47E+04	2.46E+04	-3.70E+05	3.70E+05
1/10	0.334	-3.71E+04	3.71E+04	-3.70E+04	3.70E+04	-3.70E+05	3.70E+05

Table R–1189. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	10.2	-6.01E+03	6.62E+03	-6.04E+03	6.59E+03	-3.63E+05	3.95E+05
1/20	76.1	-2.00E+04	2.37E+04	-1.99E+04	2.36E+04	-3.99E+05	4.70E+05
1/15	784.	-2.96E+04	3.33E+04	-2.94E+04	3.25E+04	-4.53E+05	4.76E+05
1/10	292.	-5.53E+04	4.12E+04	-5.36E+04	3.31E+04	-5.39E+05	3.28E+05

Table R–1190. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	10.2	-6.01E+03	6.62E+03	-6.04E+03	6.59E+03	-3.63E+05	3.95E+05
1/20	76.1	-2.00E+04	2.37E+04	-1.99E+04	2.36E+04	-3.99E+05	4.70E+05
1/15	784.	-2.96E+04	3.33E+04	-2.94E+04	3.25E+04	-4.53E+05	4.76E+05
1/10	292.	-5.53E+04	4.12E+04	-5.36E+04	3.31E+04	-5.39E+05	3.28E+05

Table R–1191. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1192. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	27.0	-6.03E+03	6.62E+03	-6.01E+03	6.54E+03	-3.62E+05	3.91E+05
1/20	148.	-2.01E+04	2.13E+04	-1.98E+04	2.11E+04	-3.99E+05	4.19E+05
1/15	190.	-3.00E+04	3.18E+04	-2.97E+04	3.16E+04	-4.48E+05	4.71E+05
1/10	—	—	—	—	—	—	—

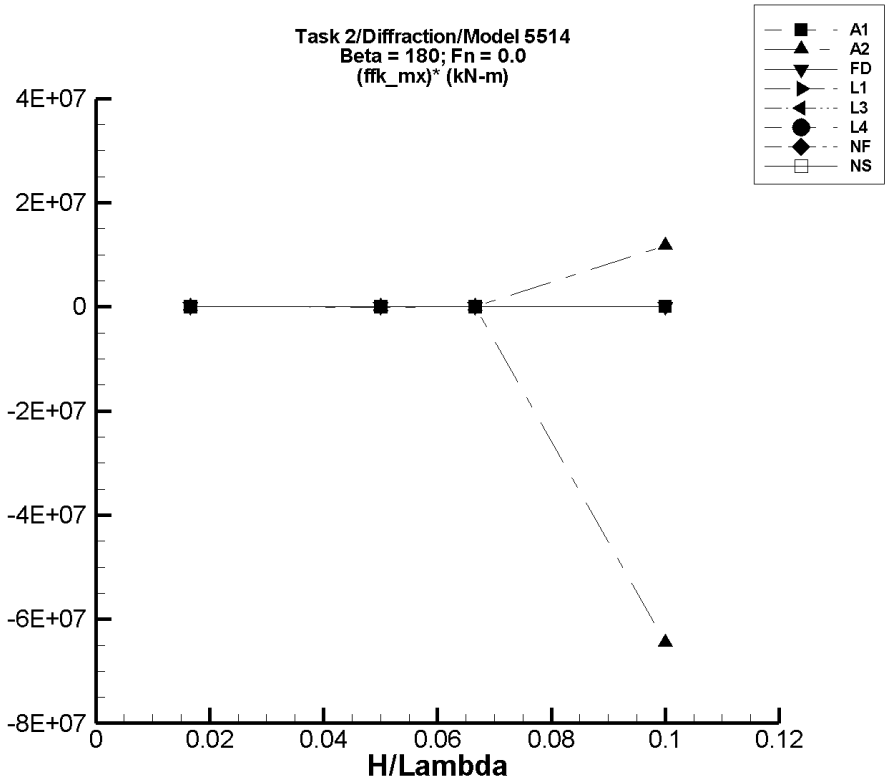

Figure R–150. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1193. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	7.48E-07	-7.18E-04	7.18E-04	-7.19E-04	7.10E-04	-4.32E-02	4.26E-02
1/20	2.24E-06	-2.15E-03	2.15E-03	-2.15E-03	2.12E-03	-4.31E-02	4.24E-02
1/15	2.98E-06	-2.86E-03	2.86E-03	-2.87E-03	2.83E-03	-4.30E-02	4.24E-02
1/10	4.48E-06	-4.30E-03	4.29E-03	-4.30E-03	4.25E-03	-4.31E-02	4.24E-02

Table R–1194. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	1.06E-05	-5.94E-04	8.09E-04	-2.50E-04	2.11E-04	-1.56E-02	1.20E-02
1/20	-150.	-2.53E+04	3.19E-03	-3.38E+03	289.	-6.46E+04	8.77E+03
1/15	471.	-9.80E-02	4.21E+04	-487.	5.84E+03	-1.44E+04	8.05E+04
1/10	-5.82E+05	-5.26E+07	1.73E+05	-7.04E+06	6.00E+05	-6.45E+07	1.18E+07

Table R–1195. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	2.96E-04	-5.43E-03	8.04E-03	-7.14E-04	1.67E-03	-6.06E-02	8.24E-02
1/20	-4.66E-04	-1.71E-02	2.36E-02	-3.35E-03	4.12E-03	-5.76E-02	9.18E-02
1/15	-1.14E-03	-3.70E-02	2.84E-02	-5.64E-03	3.97E-03	-6.74E-02	7.67E-02
1/10	-4.74E-04	-8.04E-02	4.39E-02	-1.12E-02	7.10E-03	-0.108	7.57E-02

Table R–1196. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1197. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1198. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1199. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1200. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.95E-04	-3.24E-03	2.74E-03	-1.18E-03	4.71E-04	-5.32E-02	4.60E-02
1/20	2.04E-04	-1.04E-02	1.48E-02	-2.74E-03	5.58E-03	-5.89E-02	0.107
1/15	9.16E-04	-1.80E-02	2.49E-02	-4.14E-03	8.24E-03	-7.59E-02	0.110
1/10	—	—	—	—	—	—	—

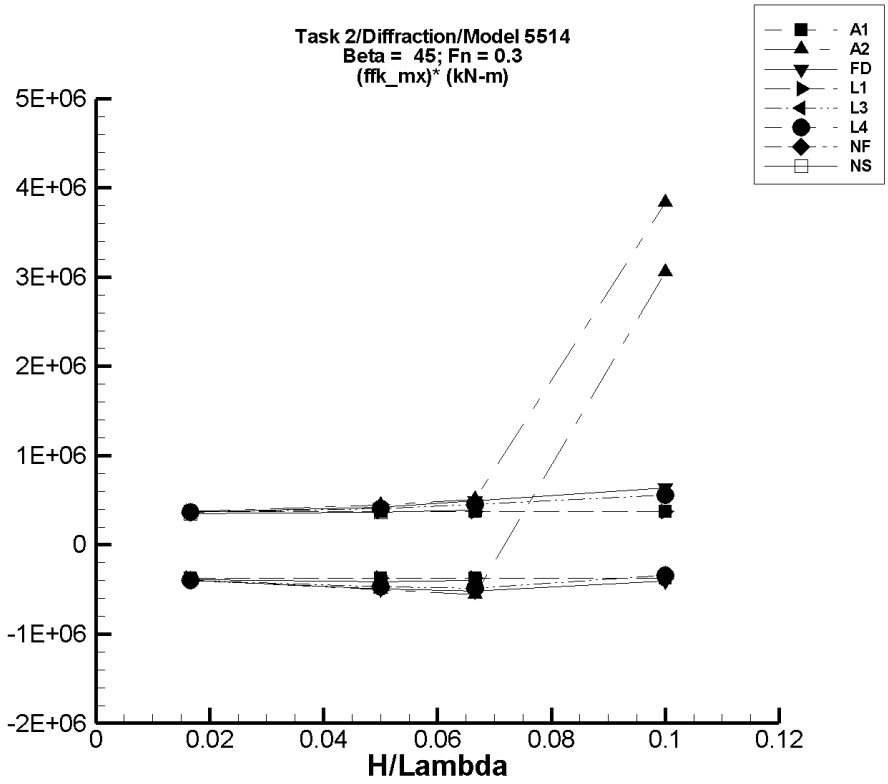

Figure R–151. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1201. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	2.56	-6.26E+03	6.26E+03	-6.25E+03	6.25E+03	-3.75E+05	3.75E+05
1/20	7.65	-1.87E+04	1.87E+04	-1.87E+04	1.87E+04	-3.74E+05	3.74E+05
1/15	10.2	-2.49E+04	2.49E+04	-2.49E+04	2.49E+04	-3.73E+05	3.73E+05
1/10	15.3	-3.75E+04	3.75E+04	-3.74E+04	3.74E+04	-3.74E+05	3.74E+05

Table R–1202. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	0.109	-6.72E+03	6.28E+03	-6.70E+03	6.24E+03	-4.02E+05	3.74E+05
1/20	-181.	-2.54E+04	2.17E+04	-2.53E+04	2.19E+04	-5.03E+05	4.42E+05
1/15	-116.	-5.58E+04	3.40E+04	-3.74E+04	3.39E+04	-5.60E+05	5.11E+05
1/10	-3.11E+05	-1.56E+04	7.46E+04	-5.48E+03	7.30E+04	3.05E+06	3.84E+06

Table R–1203. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-4.38	-6.70E+03	6.14E+03	-6.68E+03	6.13E+03	-4.00E+05	3.68E+05
1/20	-34.3	-2.49E+04	2.11E+04	-2.48E+04	2.10E+04	-4.95E+05	4.21E+05
1/15	-724.	-3.62E+04	3.21E+04	-3.53E+04	3.20E+04	-5.19E+05	4.90E+05
1/10	18.7	-4.37E+04	6.48E+04	-4.08E+04	6.35E+04	-4.09E+05	6.35E+05

Table R–1204. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	0.619	-6.19E+03	6.19E+03	-6.18E+03	6.18E+03	-3.71E+05	3.71E+05
1/20	1.86	-1.86E+04	1.86E+04	-1.85E+04	1.85E+04	-3.71E+05	3.71E+05
1/15	2.48	-2.48E+04	2.48E+04	-2.47E+04	2.47E+04	-3.71E+05	3.71E+05
1/10	3.72	-3.71E+04	3.71E+04	-3.71E+04	3.71E+04	-3.71E+05	3.71E+05

Table R–1205. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-11.2	-6.62E+03	6.01E+03	-6.61E+03	6.03E+03	-3.96E+05	3.62E+05
1/20	-61.1	-2.37E+04	2.00E+04	-2.37E+04	2.00E+04	-4.72E+05	4.01E+05
1/15	-680.	-3.33E+04	2.96E+04	-3.32E+04	2.95E+04	-4.87E+05	4.53E+05
1/10	-964.	-4.14E+04	5.53E+04	-3.50E+04	5.50E+04	-3.40E+05	5.60E+05

Table R–1206. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-11.2	-6.62E+03	6.01E+03	-6.61E+03	6.03E+03	-3.96E+05	3.62E+05
1/20	-61.1	-2.37E+04	2.00E+04	-2.37E+04	2.00E+04	-4.72E+05	4.01E+05
1/15	-680.	-3.33E+04	2.96E+04	-3.32E+04	2.95E+04	-4.87E+05	4.53E+05
1/10	-964.	-4.14E+04	5.53E+04	-3.50E+04	5.50E+04	-3.40E+05	5.60E+05

Table R–1207. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1208. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.11	-6.53E+03	5.92E+03	-6.46E+03	5.86E+03	-3.87E+05	3.52E+05
1/20	-135.	-2.10E+04	1.85E+04	-2.08E+04	1.83E+04	-4.13E+05	3.68E+05
1/15	-197.	-2.70E+04	2.57E+04	-2.69E+04	2.55E+04	-4.00E+05	3.86E+05
1/10	—	—	—	—	—	—	—

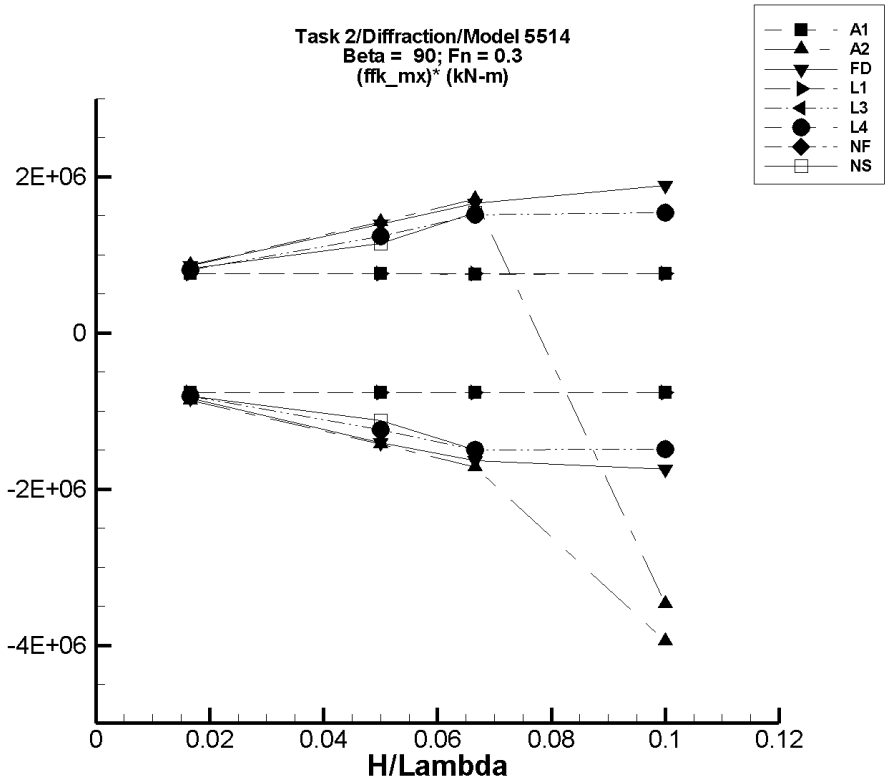

Figure R–152. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1209. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	12.6	-1.28E+04	1.28E+04	-1.28E+04	1.26E+04	-7.66E+05	7.57E+05
1/20	37.8	-3.82E+04	3.82E+04	-3.82E+04	3.78E+04	-7.64E+05	7.55E+05
1/15	50.4	-5.09E+04	5.09E+04	-5.08E+04	5.03E+04	-7.63E+05	7.54E+05
1/10	75.7	-7.64E+04	7.64E+04	-7.63E+04	7.56E+04	-7.64E+05	7.55E+05

Table R–1210. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	7.91	-1.47E+04	1.47E+04	-1.45E+04	1.45E+04	-8.69E+05	8.67E+05
1/20	259.	-7.30E+04	7.30E+04	-7.11E+04	7.11E+04	-1.43E+06	1.42E+06
1/15	96.8	-1.27E+05	1.27E+05	-1.14E+05	1.14E+05	-1.72E+06	1.71E+06
1/10	5.41E+05	1.46E+05	1.94E+05	1.46E+05	1.94E+05	-3.95E+06	-3.47E+06

Table R–1211. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	3.45	-1.42E+04	1.42E+04	-1.40E+04	1.43E+04	-8.39E+05	8.58E+05
1/20	247.	-7.20E+04	7.20E+04	-6.99E+04	6.98E+04	-1.40E+06	1.39E+06
1/15	41.0	-1.22E+05	1.21E+05	-1.09E+05	1.11E+05	-1.64E+06	1.66E+06
1/10	-2.36E+03	-1.94E+05	1.94E+05	-1.77E+05	1.86E+05	-1.75E+06	1.89E+06

Table R–1212. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	8.80	-1.27E+04	1.27E+04	-1.27E+04	1.26E+04	-7.62E+05	7.58E+05
1/20	26.4	-3.81E+04	3.81E+04	-3.81E+04	3.79E+04	-7.62E+05	7.58E+05
1/15	35.2	-5.08E+04	5.08E+04	-5.08E+04	5.06E+04	-7.62E+05	7.58E+05
1/10	52.8	-7.62E+04	7.62E+04	-7.61E+04	7.59E+04	-7.62E+05	7.58E+05

Table R–1213. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.42	-1.35E+04	1.35E+04	-1.35E+04	1.35E+04	-8.09E+05	8.08E+05
1/20	89.2	-6.27E+04	6.27E+04	-6.21E+04	6.21E+04	-1.24E+06	1.24E+06
1/15	-324.	-1.08E+05	1.08E+05	-1.01E+05	1.01E+05	-1.50E+06	1.52E+06
1/10	-2.22E+03	-1.63E+05	1.70E+05	-1.51E+05	1.51E+05	-1.49E+06	1.54E+06

Table R–1214. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.42	-1.35E+04	1.35E+04	-1.35E+04	1.35E+04	-8.09E+05	8.08E+05
1/20	89.2	-6.27E+04	6.27E+04	-6.21E+04	6.21E+04	-1.24E+06	1.24E+06
1/15	-324.	-1.08E+05	1.08E+05	-1.01E+05	1.01E+05	-1.50E+06	1.52E+06
1/10	-2.22E+03	-1.63E+05	1.70E+05	-1.51E+05	1.51E+05	-1.49E+06	1.54E+06

Table R–1215. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1216. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	28.1	-1.36E+04	1.39E+04	-1.34E+04	1.37E+04	-8.07E+05	8.21E+05
1/20	38.8	-5.74E+04	5.91E+04	-5.60E+04	5.75E+04	-1.12E+06	1.15E+06
1/15	-131.	-1.02E+05	1.04E+05	-1.00E+05	1.02E+05	-1.50E+06	1.54E+06
1/10	—	—	—	—	—	—	—

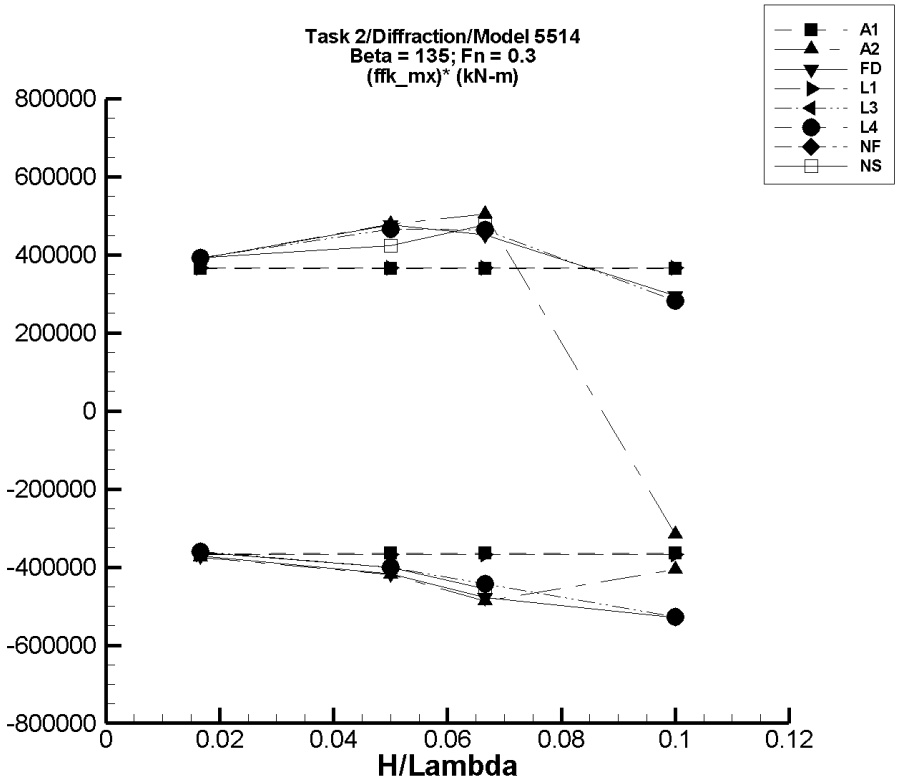

Figure R–153. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1217. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	10.8	-6.26E+03	6.26E+03	-6.09E+03	6.10E+03	-3.66E+05	3.65E+05
1/20	32.2	-1.87E+04	1.87E+04	-1.82E+04	1.82E+04	-3.65E+05	3.64E+05
1/15	42.8	-2.49E+04	2.49E+04	-2.42E+04	2.43E+04	-3.64E+05	3.64E+05
1/10	64.3	-3.75E+04	3.75E+04	-3.64E+04	3.65E+04	-3.65E+05	3.64E+05

Table R–1218. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	18.5	-6.28E+03	6.71E+03	-6.24E+03	6.53E+03	-3.75E+05	3.90E+05
1/20	218.	-5.69E+04	2.54E+04	-2.07E+04	2.41E+04	-4.19E+05	4.79E+05
1/15	-17.0	-4.51E+04	3.80E+04	-3.25E+04	3.36E+04	-4.87E+05	5.04E+05
1/10	-7.60E+03	-4.82E+04	-3.92E+04	-4.82E+04	-3.92E+04	-4.06E+05	-3.16E+05

Table R–1219. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	4.17	-6.14E+03	6.69E+03	-6.19E+03	6.50E+03	-3.71E+05	3.90E+05
1/20	97.2	-2.10E+04	2.49E+04	-2.08E+04	2.39E+04	-4.17E+05	4.77E+05
1/15	786.	-3.21E+04	3.57E+04	-3.11E+04	3.09E+04	-4.78E+05	4.51E+05
1/10	1.08E+03	-6.44E+04	4.28E+04	-5.18E+04	3.06E+04	-5.29E+05	2.95E+05

Table R–1220. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	7.73	-6.19E+03	6.19E+03	-6.13E+03	6.13E+03	-3.68E+05	3.67E+05
1/20	23.2	-1.86E+04	1.86E+04	-1.84E+04	1.84E+04	-3.68E+05	3.67E+05
1/15	30.9	-2.48E+04	2.48E+04	-2.45E+04	2.45E+04	-3.68E+05	3.67E+05
1/10	46.4	-3.71E+04	3.71E+04	-3.68E+04	3.68E+04	-3.68E+05	3.67E+05

Table R–1221. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	16.2	-6.01E+03	6.62E+03	-6.00E+03	6.55E+03	-3.61E+05	3.92E+05
1/20	67.3	-2.00E+04	2.37E+04	-1.99E+04	2.34E+04	-4.00E+05	4.66E+05
1/15	477.	-2.96E+04	3.33E+04	-2.90E+04	3.14E+04	-4.43E+05	4.63E+05
1/10	1.08E+03	-5.53E+04	4.02E+04	-5.16E+04	2.93E+04	-5.27E+05	2.82E+05

Table R–1222. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	16.2	-6.01E+03	6.62E+03	-6.00E+03	6.55E+03	-3.61E+05	3.92E+05
1/20	67.3	-2.00E+04	2.37E+04	-1.99E+04	2.34E+04	-4.00E+05	4.66E+05
1/15	477.	-2.96E+04	3.33E+04	-2.90E+04	3.14E+04	-4.43E+05	4.63E+05
1/10	1.08E+03	-5.53E+04	4.02E+04	-5.16E+04	2.93E+04	-5.27E+05	2.82E+05

Table R–1223. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1224. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	43.7	-6.01E+03	6.65E+03	-5.98E+03	6.58E+03	-3.62E+05	3.92E+05
1/20	255.	-2.01E+04	2.17E+04	-1.98E+04	2.14E+04	-4.01E+05	4.24E+05
1/15	338.	-3.03E+04	3.23E+04	-3.00E+04	3.21E+04	-4.55E+05	4.76E+05
1/10	—	—	—	—	—	—	—

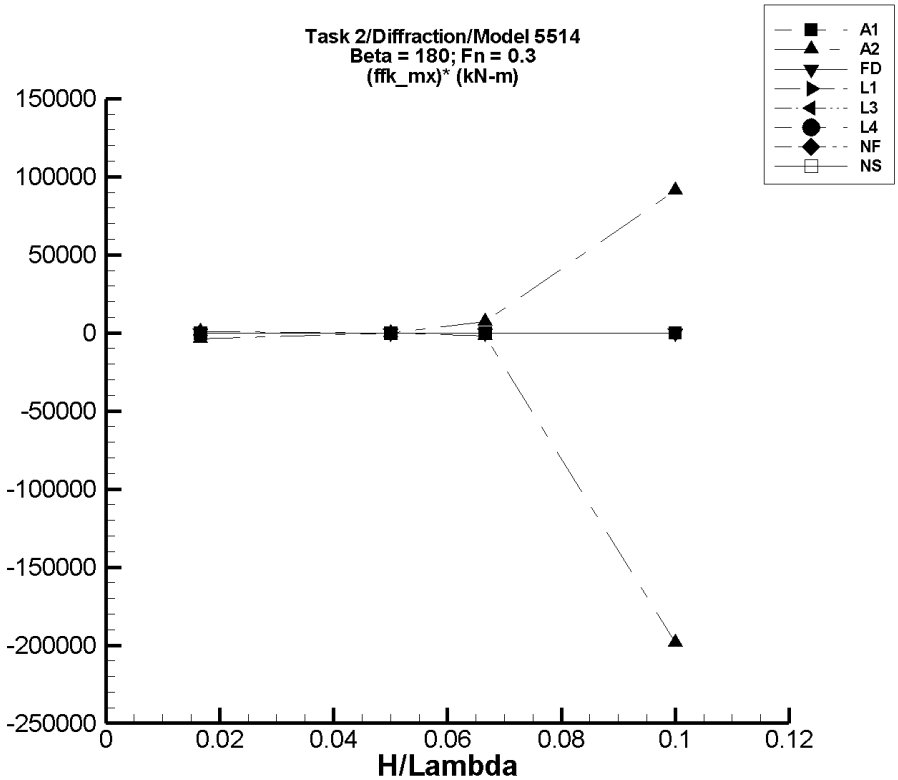

Figure R–154. Minimum and Maximum of $(M_x^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1225. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-1.07E-06	-7.18E-04	7.17E-04	-6.95E-04	6.93E-04	-4.16E-02	4.17E-02
1/20	-3.20E-06	-2.15E-03	2.15E-03	-2.08E-03	2.07E-03	-4.15E-02	4.15E-02
1/15	-4.27E-06	-2.86E-03	2.86E-03	-2.77E-03	2.76E-03	-4.14E-02	4.15E-02
1/10	-6.41E-06	-4.29E-03	4.29E-03	-4.16E-03	4.15E-03	-4.15E-02	4.15E-02

Table R–1226. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	-6.46	-530.	2.96E-04	-70.7	6.06	-3.85E+03	752.
1/20	-1.46E-03	-5.01E-02	6.38E-02	-8.45E-03	5.48E-03	-0.140	0.139
1/15	79.9	-120.	4.42E+03	-49.6	574.	-1.94E+03	7.41E+03
1/10	-7.05E+03	-1.69E+05	512.	-2.69E+04	2.07E+03	-1.98E+05	9.11E+04

Table R–1227. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{fk}})^*$ Max. (kN-m)
1/60	4.10E-03	-1.34E-02	3.48E-02	-5.68E-03	2.44E-02	-0.587	1.22
1/20	4.76E-04	-5.57E-02	6.79E-02	-2.75E-02	2.21E-02	-0.560	0.432
1/15	1.37E-03	-0.162	0.135	-4.80E-02	5.15E-02	-0.741	0.751
1/10	-0.185	-21.4	0.471	-2.86	0.320	-26.8	5.05

Table R–1228. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1229. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1230. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_x^{fk} Min. (kN-m)	Unfiltered M_x^{fk} Max. (kN-m)	Filtered M_x^{fk} Min. (kN-m)	Filtered M_x^{fk} Max. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1231. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1232. Minimum and Maximum of M_x^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.70E-04	-4.78E-03	3.97E-03	-9.58E-04	4.53E-04	-4.13E-02	4.34E-02
1/20	-2.17E-04	-2.12E-02	2.19E-02	-5.28E-03	3.18E-03	-0.101	6.80E-02
1/15	5.99E-04	-4.73E-02	2.79E-02	-6.57E-03	7.06E-03	-0.108	9.69E-02
1/10	—	—	—	—	—	—	—

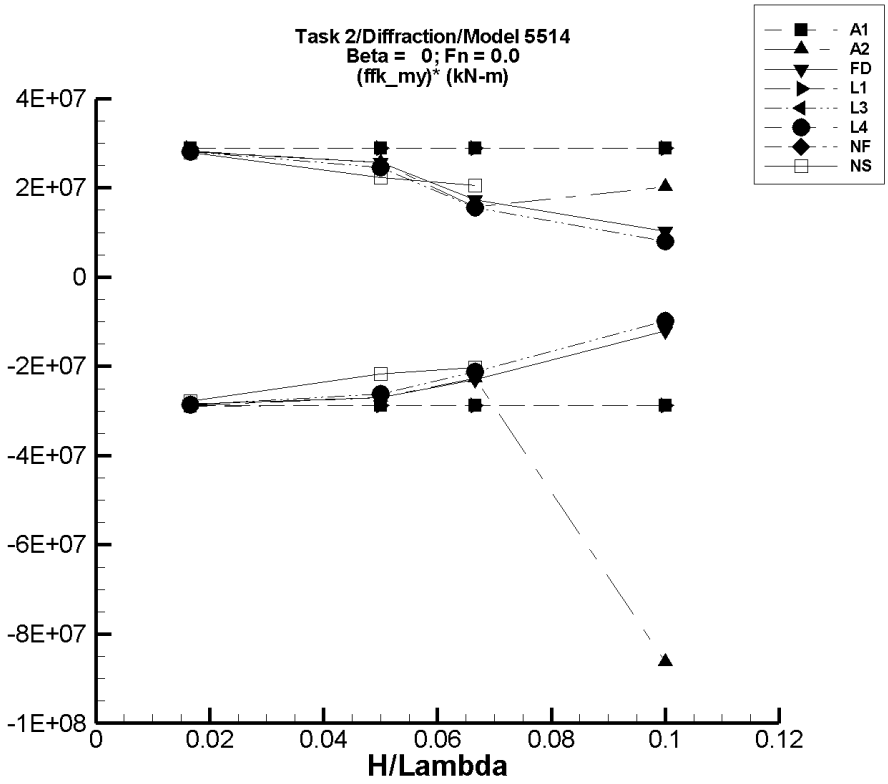

Figure R–155. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1233. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-387.	-4.88E+05	4.87E+05	-4.82E+05	4.82E+05	-2.89E+07	2.89E+07
1/20	-1.16E+03	-1.46E+06	1.46E+06	-1.44E+06	1.44E+06	-2.88E+07	2.89E+07
1/15	-1.54E+03	-1.94E+06	1.94E+06	-1.92E+06	1.92E+06	-2.88E+07	2.88E+07
1/10	-2.32E+03	-2.92E+06	2.92E+06	-2.88E+06	2.88E+06	-2.88E+07	2.89E+07

Table R–1234. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.11E+04	-4.74E+05	4.89E+05	-4.69E+05	4.83E+05	-2.88E+07	2.83E+07
1/20	1.09E+05	-1.27E+06	1.41E+06	-1.24E+06	1.39E+06	-2.70E+07	2.56E+07
1/15	-3.97E+03	-1.56E+06	1.46E+06	-1.51E+06	1.04E+06	-2.27E+07	1.57E+07
1/10	-1.20E+06	-6.67E+07	1.83E+06	-9.83E+06	8.16E+05	-8.63E+07	2.01E+07

Table R–1235. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.91E+03	-4.71E+05	4.82E+05	-4.65E+05	4.77E+05	-2.84E+07	2.81E+07
1/20	1.11E+05	-1.27E+06	1.41E+06	-1.24E+06	1.39E+06	-2.71E+07	2.57E+07
1/15	-1.06E+04	-1.58E+06	1.18E+06	-1.54E+06	1.14E+06	-2.29E+07	1.73E+07
1/10	-3.86E+05	-1.73E+06	6.83E+05	-1.58E+06	6.35E+05	-1.20E+07	1.02E+07

Table R–1236. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-55.7	-4.83E+05	4.83E+05	-4.81E+05	4.81E+05	-2.88E+07	2.88E+07
1/20	-167.	-1.45E+06	1.45E+06	-1.44E+06	1.44E+06	-2.88E+07	2.88E+07
1/15	-223.	-1.93E+06	1.93E+06	-1.92E+06	1.92E+06	-2.88E+07	2.88E+07
1/10	-334.	-2.90E+06	2.90E+06	-2.88E+06	2.88E+06	-2.88E+07	2.88E+07

Table R–1237. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	6.78E+03	-4.72E+05	4.76E+05	-4.70E+05	4.74E+05	-2.86E+07	2.80E+07
1/20	9.45E+04	-1.22E+06	1.32E+06	-1.21E+06	1.32E+06	-2.61E+07	2.45E+07
1/15	-3.08E+04	-1.46E+06	1.02E+06	-1.44E+06	1.01E+06	-2.12E+07	1.56E+07
1/10	-3.55E+05	-1.41E+06	4.91E+05	-1.34E+06	4.43E+05	-9.80E+06	7.98E+06

Table R–1238. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	6.78E+03	-4.72E+05	4.76E+05	-4.70E+05	4.74E+05	-2.86E+07	2.80E+07
1/20	9.45E+04	-1.22E+06	1.32E+06	-1.21E+06	1.32E+06	-2.61E+07	2.45E+07
1/15	-3.08E+04	-1.46E+06	1.02E+06	-1.44E+06	1.01E+06	-2.12E+07	1.56E+07
1/10	-3.55E+05	-1.41E+06	4.91E+05	-1.34E+06	4.43E+05	-9.80E+06	7.98E+06

Table R–1239. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1240. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	241.	-4.69E+05	4.72E+05	-4.64E+05	4.67E+05	-2.79E+07	2.80E+07
1/20	-4.28E+04	-1.14E+06	1.07E+06	-1.12E+06	1.07E+06	-2.16E+07	2.23E+07
1/15	-6.47E+04	-1.42E+06	1.31E+06	-1.41E+06	1.31E+06	-2.02E+07	2.06E+07
1/10	—	—	—	—	—	—	—

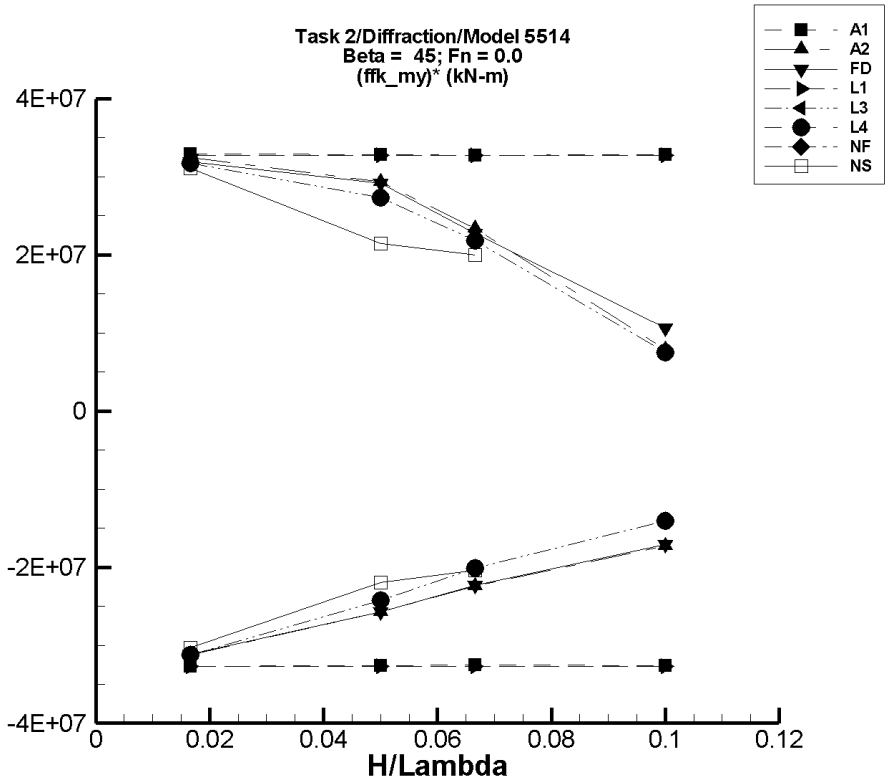

Figure R–156. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1241. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-522.	-5.52E+05	5.52E+05	-5.46E+05	5.48E+05	-3.27E+07	3.29E+07
1/20	-1.56E+03	-1.65E+06	1.65E+06	-1.63E+06	1.64E+06	-3.26E+07	3.28E+07
1/15	-2.08E+03	-2.20E+06	2.20E+06	-2.17E+06	2.18E+06	-3.26E+07	3.27E+07
1/10	-3.12E+03	-3.30E+06	3.30E+06	-3.26E+06	3.28E+06	-3.26E+07	3.28E+07

Table R–1242. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.14E+04	-5.22E+05	5.52E+05	-5.10E+05	5.52E+05	-3.13E+07	3.24E+07
1/20	1.07E+05	-1.19E+06	1.57E+06	-1.18E+06	1.57E+06	-2.58E+07	2.93E+07
1/15	-2.62E+04	-1.54E+06	1.91E+06	-1.52E+06	1.53E+06	-2.25E+07	2.34E+07
1/10	-5.56E+05	-2.42E+06	1.41E+06	-2.28E+06	2.32E+05	-1.73E+07	7.88E+06

Table R–1243. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.32E+03	-5.16E+05	5.45E+05	-5.10E+05	5.41E+05	-3.12E+07	3.19E+07
1/20	1.09E+05	-1.19E+06	1.58E+06	-1.18E+06	1.57E+06	-2.57E+07	2.91E+07
1/15	-2.22E+04	-1.53E+06	1.57E+06	-1.51E+06	1.49E+06	-2.24E+07	2.27E+07
1/10	-3.54E+05	-2.15E+06	7.68E+05	-2.07E+06	7.08E+05	-1.71E+07	1.06E+07

Table R–1244. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-316.	-5.48E+05	5.48E+05	-5.46E+05	5.46E+05	-3.27E+07	3.28E+07
1/20	-949.	-1.64E+06	1.64E+06	-1.64E+06	1.64E+06	-3.27E+07	3.28E+07
1/15	-1.27E+03	-2.19E+06	2.19E+06	-2.18E+06	2.18E+06	-3.27E+07	3.28E+07
1/10	-1.90E+03	-3.29E+06	3.29E+06	-3.27E+06	3.27E+06	-3.27E+07	3.28E+07

Table R–1245. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.65E+03	-5.17E+05	5.37E+05	-5.15E+05	5.35E+05	-3.13E+07	3.17E+07
1/20	9.62E+04	-1.12E+06	1.47E+06	-1.12E+06	1.46E+06	-2.43E+07	2.73E+07
1/15	-3.04E+04	-1.38E+06	1.46E+06	-1.37E+06	1.43E+06	-2.01E+07	2.18E+07
1/10	-3.40E+05	-1.78E+06	4.85E+05	-1.75E+06	4.14E+05	-1.41E+07	7.54E+06

Table R–1246. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.65E+03	-5.17E+05	5.37E+05	-5.15E+05	5.35E+05	-3.13E+07	3.17E+07
1/20	9.62E+04	-1.12E+06	1.47E+06	-1.12E+06	1.46E+06	-2.43E+07	2.73E+07
1/15	-3.04E+04	-1.38E+06	1.46E+06	-1.37E+06	1.43E+06	-2.01E+07	2.18E+07
1/10	-3.40E+05	-1.78E+06	4.85E+05	-1.75E+06	4.14E+05	-1.41E+07	7.54E+06

Table R–1247. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1248. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-77.4	-5.10E+05	5.17E+05	-5.05E+05	5.18E+05	-3.03E+07	3.11E+07
1/20	-4.27E+04	-1.15E+06	1.04E+06	-1.14E+06	1.03E+06	-2.19E+07	2.15E+07
1/15	-6.35E+04	-1.43E+06	1.28E+06	-1.42E+06	1.27E+06	-2.04E+07	2.00E+07
1/10	—	—	—	—	—	—	—

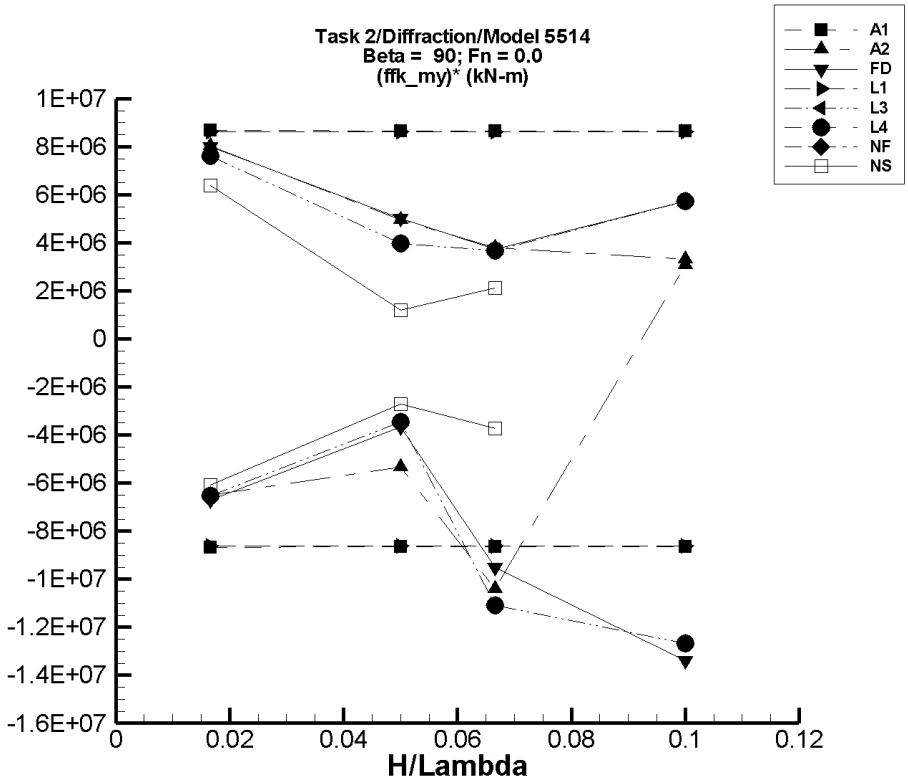

Figure R–157. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1249. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-106.	-1.46E+05	1.46E+05	-1.45E+05	1.45E+05	-8.67E+06	8.68E+06
1/20	-318.	-4.38E+05	4.37E+05	-4.33E+05	4.33E+05	-8.65E+06	8.66E+06
1/15	-424.	-5.83E+05	5.82E+05	-5.76E+05	5.76E+05	-8.64E+06	8.65E+06
1/10	-636.	-8.75E+05	8.75E+05	-8.66E+05	8.65E+05	-8.65E+06	8.66E+06

Table R–1250. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.18E+04	-1.05E+05	1.47E+05	-9.63E+04	1.45E+05	-6.49E+06	8.02E+06
1/20	9.21E+04	-3.17E+05	3.42E+05	-1.75E+05	3.39E+05	-5.35E+06	4.94E+06
1/15	-1.33E+04	-9.71E+05	2.87E+05	-7.06E+05	2.39E+05	-1.04E+07	3.79E+06
1/10	-2.45E+06	-2.14E+06	-2.12E+06	-2.14E+06	-2.12E+06	3.08E+06	3.31E+06

Table R–1251. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.30E+03	-1.03E+05	1.44E+05	-1.03E+05	1.42E+05	-6.72E+06	7.99E+06
1/20	1.12E+05	-8.27E+04	3.66E+05	-7.03E+04	3.63E+05	-3.65E+06	5.01E+06
1/15	1.05E+03	-7.31E+05	2.95E+05	-6.33E+05	2.50E+05	-9.51E+06	3.73E+06
1/10	-3.55E+05	-1.71E+06	2.34E+05	-1.70E+06	2.19E+05	-1.34E+07	5.74E+06

Table R–1252. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	63.3	-1.44E+05	1.44E+05	-1.44E+05	1.44E+05	-8.62E+06	8.61E+06
1/20	190.	-4.32E+05	4.32E+05	-4.31E+05	4.31E+05	-8.62E+06	8.61E+06
1/15	253.	-5.77E+05	5.76E+05	-5.74E+05	5.74E+05	-8.62E+06	8.61E+06
1/10	380.	-8.65E+05	8.65E+05	-8.62E+05	8.61E+05	-8.62E+06	8.61E+06

Table R–1253. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.30E+03	-1.01E+05	1.35E+05	-1.01E+05	1.34E+05	-6.52E+06	7.60E+06
1/20	9.90E+04	-8.00E+04	2.98E+05	-7.42E+04	2.97E+05	-3.46E+06	3.96E+06
1/15	-1.45E+04	-7.87E+05	2.67E+05	-7.54E+05	2.30E+05	-1.11E+07	3.67E+06
1/10	-3.34E+05	-1.69E+06	2.42E+05	-1.60E+06	2.39E+05	-1.27E+07	5.73E+06

Table R–1254. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.30E+03	-1.01E+05	1.35E+05	-1.01E+05	1.34E+05	-6.52E+06	7.60E+06
1/20	9.90E+04	-8.00E+04	2.98E+05	-7.42E+04	2.97E+05	-3.46E+06	3.96E+06
1/15	-1.45E+04	-7.87E+05	2.67E+05	-7.54E+05	2.30E+05	-1.11E+07	3.67E+06
1/10	-3.34E+05	-1.69E+06	2.42E+05	-1.60E+06	2.39E+05	-1.27E+07	5.73E+06

Table R–1255. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1256. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-433.	-1.03E+05	1.06E+05	-1.02E+05	1.06E+05	-6.09E+06	6.37E+06
1/20	-4.23E+04	-1.82E+05	1.89E+04	-1.79E+05	1.75E+04	-2.72E+06	1.20E+06
1/15	-6.18E+04	-3.13E+05	8.15E+04	-3.10E+05	8.03E+04	-3.72E+06	2.13E+06
1/10	—	—	—	—	—	—	—

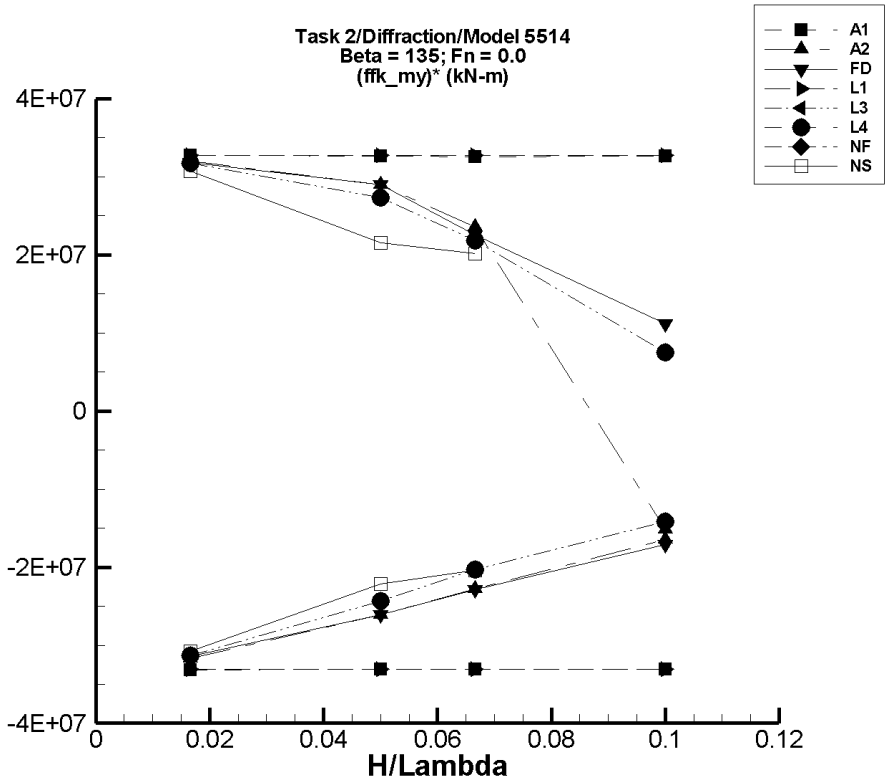

Figure R–158. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1257. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	569.	-5.52E+05	5.52E+05	-5.53E+05	5.46E+05	-3.32E+07	3.27E+07
1/20	1.70E+03	-1.65E+06	1.65E+06	-1.65E+06	1.63E+06	-3.31E+07	3.26E+07
1/15	2.27E+03	-2.20E+06	2.20E+06	-2.20E+06	2.17E+06	-3.31E+07	3.26E+07
1/10	3.40E+03	-3.30E+06	3.30E+06	-3.31E+06	3.27E+06	-3.31E+07	3.26E+07

Table R–1258. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.26E+04	-5.21E+05	5.52E+05	-5.15E+05	5.46E+05	-3.17E+07	3.20E+07
1/20	1.08E+05	-1.43E+06	1.57E+06	-1.20E+06	1.56E+06	-2.61E+07	2.90E+07
1/15	-1.97E+04	-1.54E+06	1.59E+06	-1.54E+06	1.55E+06	-2.28E+07	2.35E+07
1/10	2.67E+05	-1.38E+06	-1.25E+06	-1.38E+06	-1.25E+06	-1.64E+07	-1.52E+07

Table R–1259. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.50E+03	-5.16E+05	5.45E+05	-5.14E+05	5.39E+05	-3.14E+07	3.18E+07
1/20	1.11E+05	-1.19E+06	1.58E+06	-1.19E+06	1.56E+06	-2.61E+07	2.90E+07
1/15	-1.07E+04	-1.53E+06	1.57E+06	-1.54E+06	1.49E+06	-2.29E+07	2.25E+07
1/10	-3.56E+05	-2.15E+06	7.70E+05	-2.07E+06	7.64E+05	-1.71E+07	1.12E+07

Table R–1260. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	1.43	-5.48E+05	5.48E+05	-5.52E+05	5.46E+05	-3.31E+07	3.27E+07
1/20	4.61	-1.64E+06	1.64E+06	-1.65E+06	1.64E+06	-3.31E+07	3.27E+07
1/15	5.84	-2.19E+06	2.19E+06	-2.21E+06	2.18E+06	-3.31E+07	3.27E+07
1/10	8.27	-3.29E+06	3.29E+06	-3.31E+06	3.27E+06	-3.31E+07	3.27E+07

Table R–1261. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.16E+03	-5.17E+05	5.37E+05	-5.15E+05	5.35E+05	-3.13E+07	3.17E+07
1/20	9.69E+04	-1.12E+06	1.47E+06	-1.12E+06	1.46E+06	-2.43E+07	2.73E+07
1/15	-2.74E+04	-1.38E+06	1.46E+06	-1.38E+06	1.42E+06	-2.03E+07	2.18E+07
1/10	-3.34E+05	-1.79E+06	4.93E+05	-1.75E+06	4.19E+05	-1.41E+07	7.54E+06

Table R–1262. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.16E+03	-5.17E+05	5.37E+05	-5.15E+05	5.35E+05	-3.13E+07	3.17E+07
1/20	9.69E+04	-1.12E+06	1.47E+06	-1.12E+06	1.46E+06	-2.43E+07	2.73E+07
1/15	-2.74E+04	-1.38E+06	1.46E+06	-1.38E+06	1.42E+06	-2.03E+07	2.18E+07
1/10	-3.34E+05	-1.79E+06	4.93E+05	-1.75E+06	4.19E+05	-1.41E+07	7.54E+06

Table R–1263. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1264. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	103.	-5.11E+05	5.17E+05	-5.12E+05	5.12E+05	-3.07E+07	3.07E+07
1/20	-4.27E+04	-1.14E+06	1.04E+06	-1.15E+06	1.03E+06	-2.21E+07	2.15E+07
1/15	-6.42E+04	-1.42E+06	1.29E+06	-1.43E+06	1.28E+06	-2.04E+07	2.02E+07
1/10	—	—	—	—	—	—	—

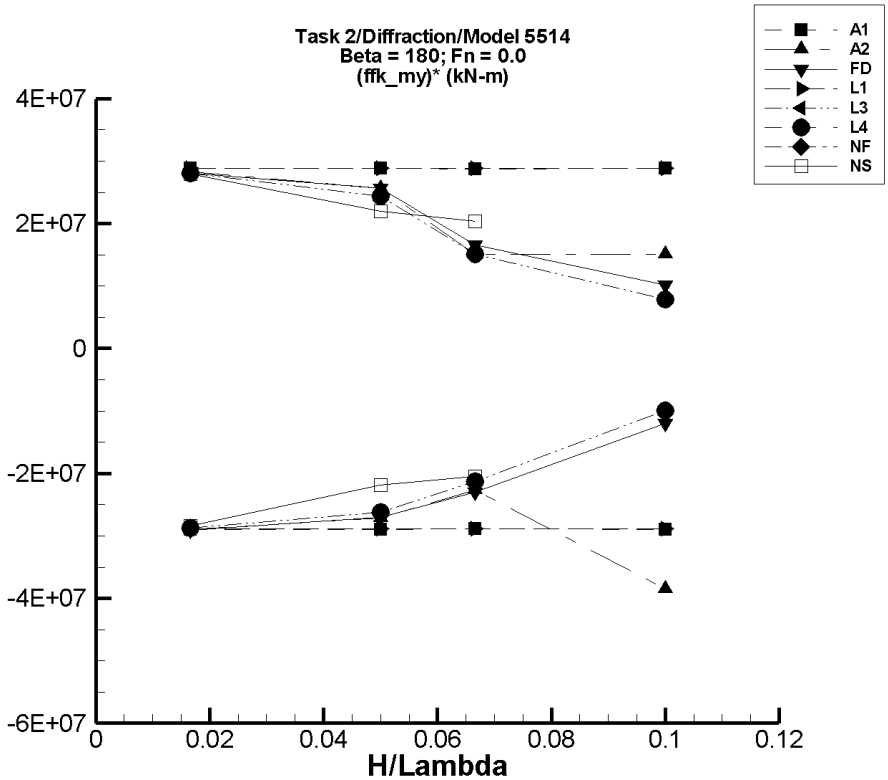

Figure R–159. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1265. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	552.	-4.88E+05	4.88E+05	-4.83E+05	4.82E+05	-2.90E+07	2.89E+07
1/20	1.65E+03	-1.46E+06	1.46E+06	-1.45E+06	1.44E+06	-2.89E+07	2.88E+07
1/15	2.20E+03	-1.94E+06	1.94E+06	-1.92E+06	1.92E+06	-2.89E+07	2.88E+07
1/10	3.30E+03	-2.92E+06	2.92E+06	-2.89E+06	2.89E+06	-2.89E+07	2.88E+07

Table R–1266. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.21E+04	-4.74E+05	4.89E+05	-4.71E+05	4.83E+05	-2.90E+07	2.83E+07
1/20	1.08E+05	-1.54E+06	1.41E+06	-1.25E+06	1.39E+06	-2.71E+07	2.56E+07
1/15	-7.80E+03	-1.56E+06	1.39E+06	-1.52E+06	1.00E+06	-2.26E+07	1.51E+07
1/10	-7.26E+05	-2.69E+07	1.83E+06	-4.57E+06	7.79E+05	-3.85E+07	1.50E+07

Table R–1267. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.66E+03	-4.71E+05	4.82E+05	-4.75E+05	4.77E+05	-2.90E+07	2.81E+07
1/20	1.11E+05	-1.27E+06	1.41E+06	-1.24E+06	1.39E+06	-2.71E+07	2.57E+07
1/15	-8.10E+03	-1.58E+06	1.19E+06	-1.54E+06	1.10E+06	-2.30E+07	1.66E+07
1/10	-3.81E+05	-1.72E+06	6.88E+05	-1.58E+06	6.34E+05	-1.20E+07	1.01E+07

Table R–1268. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	153.	-4.82E+05	4.83E+05	-4.81E+05	4.81E+05	-2.88E+07	2.88E+07
1/20	459.	-1.45E+06	1.45E+06	-1.44E+06	1.44E+06	-2.88E+07	2.88E+07
1/15	612.	-1.93E+06	1.93E+06	-1.92E+06	1.92E+06	-2.88E+07	2.88E+07
1/10	918.	-2.89E+06	2.90E+06	-2.88E+06	2.88E+06	-2.88E+07	2.88E+07

Table R–1269. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.76E+03	-4.72E+05	4.76E+05	-4.72E+05	4.74E+05	-2.87E+07	2.80E+07
1/20	9.65E+04	-1.22E+06	1.32E+06	-1.21E+06	1.32E+06	-2.62E+07	2.44E+07
1/15	-2.79E+04	-1.46E+06	1.04E+06	-1.44E+06	9.80E+05	-2.13E+07	1.51E+07
1/10	-3.48E+05	-1.41E+06	4.89E+05	-1.34E+06	4.42E+05	-9.88E+06	7.90E+06

Table R–1270. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	6.76E+03	-4.72E+05	4.76E+05	-4.72E+05	4.74E+05	-2.87E+07	2.80E+07
1/20	9.65E+04	-1.22E+06	1.32E+06	-1.21E+06	1.32E+06	-2.62E+07	2.44E+07
1/15	-2.79E+04	-1.46E+06	1.04E+06	-1.44E+06	9.80E+05	-2.13E+07	1.51E+07
1/10	-3.48E+05	-1.41E+06	4.89E+05	-1.34E+06	4.42E+05	-9.88E+06	7.90E+06

Table R–1271. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1272. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	553.	-4.71E+05	4.71E+05	-4.72E+05	4.66E+05	-2.84E+07	2.79E+07
1/20	-4.27E+04	-1.15E+06	1.07E+06	-1.14E+06	1.06E+06	-2.19E+07	2.20E+07
1/15	-6.49E+04	-1.44E+06	1.30E+06	-1.43E+06	1.29E+06	-2.05E+07	2.04E+07
1/10	—	—	—	—	—	—	—

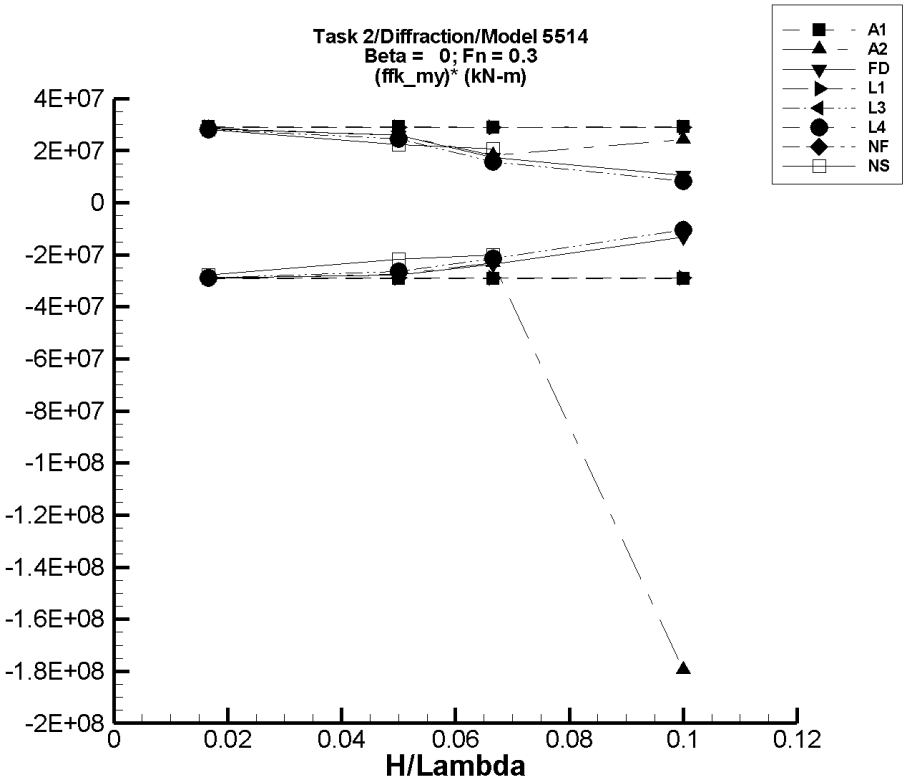

Figure R–160. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–1273. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	279.	-4.87E+05	4.87E+05	-4.87E+05	4.87E+05	-2.92E+07	2.92E+07
1/20	835.	-1.46E+06	1.46E+06	-1.46E+06	1.46E+06	-2.91E+07	2.91E+07
1/15	1.11E+03	-1.94E+06	1.94E+06	-1.94E+06	1.94E+06	-2.91E+07	2.91E+07
1/10	1.67E+03	-2.91E+06	2.91E+06	-2.91E+06	2.91E+06	-2.91E+07	2.91E+07

Table R–1274. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.19E+04	-4.74E+05	4.89E+05	-4.74E+05	4.88E+05	-2.92E+07	2.86E+07
1/20	1.04E+05	-1.54E+06	1.41E+06	-1.27E+06	1.41E+06	-2.74E+07	2.60E+07
1/15	-1.13E+04	-1.62E+06	1.46E+06	-1.56E+06	1.20E+06	-2.32E+07	1.82E+07
1/10	-8.96E+05	-9.71E+07	1.83E+06	-1.88E+07	1.54E+06	-1.80E+08	2.44E+07

Table R–1275. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.91E+03	-4.71E+05	4.82E+05	-4.70E+05	4.82E+05	-2.88E+07	2.83E+07
1/20	1.13E+05	-1.27E+06	1.41E+06	-1.27E+06	1.41E+06	-2.77E+07	2.59E+07
1/15	-8.13E+03	-1.59E+06	1.19E+06	-1.58E+06	1.15E+06	-2.36E+07	1.73E+07
1/10	-3.81E+05	-1.74E+06	7.11E+05	-1.71E+06	6.80E+05	-1.33E+07	1.06E+07

Table R–1276. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	854.	-4.82E+05	4.82E+05	-4.82E+05	4.82E+05	-2.90E+07	2.89E+07
1/20	2.56E+03	-1.45E+06	1.45E+06	-1.45E+06	1.45E+06	-2.90E+07	2.89E+07
1/15	3.42E+03	-1.93E+06	1.93E+06	-1.93E+06	1.93E+06	-2.90E+07	2.89E+07
1/10	5.13E+03	-2.89E+06	2.89E+06	-2.89E+06	2.89E+06	-2.90E+07	2.89E+07

Table R–1277. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.32E+03	-4.72E+05	4.76E+05	-4.72E+05	4.76E+05	-2.88E+07	2.81E+07
1/20	9.72E+04	-1.22E+06	1.32E+06	-1.22E+06	1.32E+06	-2.64E+07	2.45E+07
1/15	-2.83E+04	-1.46E+06	1.03E+06	-1.46E+06	1.02E+06	-2.14E+07	1.57E+07
1/10	-3.52E+05	-1.41E+06	5.09E+05	-1.40E+06	4.86E+05	-1.04E+07	8.38E+06

Table R–1278. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.32E+03	-4.72E+05	4.76E+05	-4.72E+05	4.76E+05	-2.88E+07	2.81E+07
1/20	9.72E+04	-1.22E+06	1.32E+06	-1.22E+06	1.32E+06	-2.64E+07	2.45E+07
1/15	-2.83E+04	-1.46E+06	1.03E+06	-1.46E+06	1.02E+06	-2.14E+07	1.57E+07
1/10	-3.52E+05	-1.41E+06	5.09E+05	-1.40E+06	4.86E+05	-1.04E+07	8.38E+06

Table R–1279. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1280. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	673.	-4.69E+05	4.72E+05	-4.64E+05	4.67E+05	-2.79E+07	2.80E+07
1/20	-4.13E+04	-1.13E+06	1.07E+06	-1.12E+06	1.07E+06	-2.16E+07	2.23E+07
1/15	-6.29E+04	-1.42E+06	1.31E+06	-1.41E+06	1.31E+06	-2.02E+07	2.05E+07
1/10	—	—	—	—	—	—	—

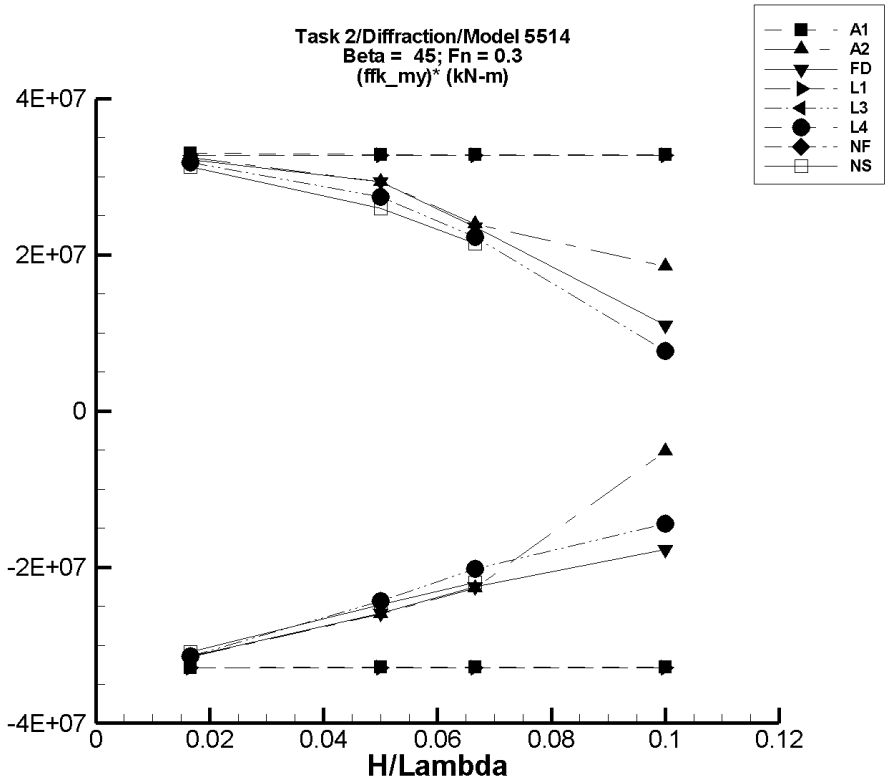

Figure R–161. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1281. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-614.	-5.50E+05	5.50E+05	-5.49E+05	5.49E+05	-3.29E+07	3.30E+07
1/20	-1.84E+03	-1.65E+06	1.65E+06	-1.64E+06	1.64E+06	-3.28E+07	3.29E+07
1/15	-2.45E+03	-2.19E+06	2.19E+06	-2.19E+06	2.19E+06	-3.28E+07	3.28E+07
1/10	-3.68E+03	-3.29E+06	3.29E+06	-3.28E+06	3.28E+06	-3.28E+07	3.29E+07

Table R–1282. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.12E+04	-5.22E+05	5.52E+05	-5.14E+05	5.52E+05	-3.15E+07	3.24E+07
1/20	1.07E+05	-1.43E+06	1.57E+06	-1.19E+06	1.57E+06	-2.60E+07	2.93E+07
1/15	-2.07E+04	-1.54E+06	1.88E+06	-1.54E+06	1.58E+06	-2.27E+07	2.40E+07
1/10	-1.85E+06	-2.42E+06	-9.37E+03	-2.37E+06	6.24E+03	-5.18E+06	1.86E+07

Table R–1283. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	8.57E+03	-5.17E+05	5.45E+05	-5.15E+05	5.44E+05	-3.14E+07	3.21E+07
1/20	1.09E+05	-1.19E+06	1.58E+06	-1.19E+06	1.57E+06	-2.59E+07	2.93E+07
1/15	-2.18E+04	-1.53E+06	1.57E+06	-1.52E+06	1.55E+06	-2.25E+07	2.36E+07
1/10	-3.56E+05	-2.15E+06	7.71E+05	-2.13E+06	7.42E+05	-1.77E+07	1.10E+07

Table R–1284. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-6.24	-5.46E+05	5.46E+05	-5.48E+05	5.46E+05	-3.29E+07	3.27E+07
1/20	-18.6	-1.64E+06	1.64E+06	-1.64E+06	1.64E+06	-3.29E+07	3.27E+07
1/15	-24.9	-2.18E+06	2.18E+06	-2.19E+06	2.18E+06	-3.29E+07	3.27E+07
1/10	-37.6	-3.28E+06	3.28E+06	-3.29E+06	3.27E+06	-3.29E+07	3.27E+07

Table R–1285. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.11E+03	-5.17E+05	5.37E+05	-5.17E+05	5.37E+05	-3.14E+07	3.18E+07
1/20	9.61E+04	-1.12E+06	1.47E+06	-1.12E+06	1.47E+06	-2.43E+07	2.74E+07
1/15	-3.27E+04	-1.38E+06	1.46E+06	-1.38E+06	1.45E+06	-2.02E+07	2.23E+07
1/10	-3.33E+05	-1.79E+06	5.07E+05	-1.78E+06	4.38E+05	-1.44E+07	7.71E+06

Table R–1286. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.11E+03	-5.17E+05	5.37E+05	-5.17E+05	5.37E+05	-3.14E+07	3.18E+07
1/20	9.61E+04	-1.12E+06	1.47E+06	-1.12E+06	1.47E+06	-2.43E+07	2.74E+07
1/15	-3.27E+04	-1.38E+06	1.46E+06	-1.38E+06	1.45E+06	-2.02E+07	2.23E+07
1/10	-3.33E+05	-1.79E+06	5.07E+05	-1.78E+06	4.38E+05	-1.44E+07	7.71E+06

Table R–1287. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1288. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.72E+03	-5.22E+05	5.19E+05	-5.17E+05	5.19E+05	-3.08E+07	3.13E+07
1/20	-1.58E+04	-1.27E+06	1.28E+06	-1.26E+06	1.28E+06	-2.48E+07	2.60E+07
1/15	-5.82E+04	-1.53E+06	1.37E+06	-1.52E+06	1.37E+06	-2.20E+07	2.14E+07
1/10	—	—	—	—	—	—	—

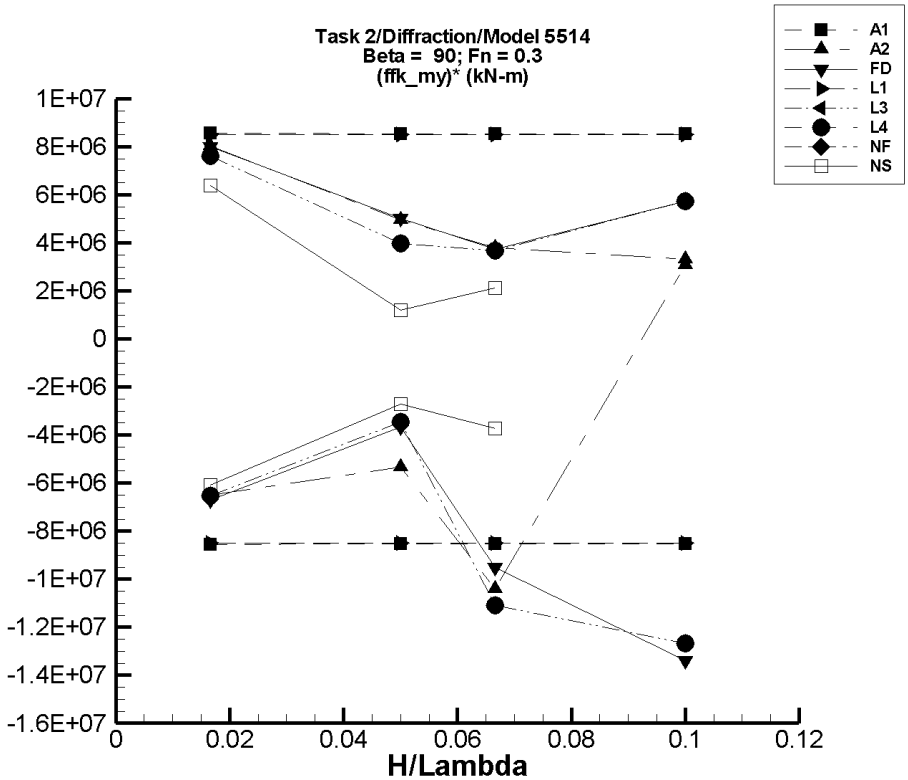

Figure R–162. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1289. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-105.	-1.44E+05	1.44E+05	-1.43E+05	1.43E+05	-8.55E+06	8.56E+06
1/20	-314.	-4.32E+05	4.31E+05	-4.27E+05	4.27E+05	-8.53E+06	8.54E+06
1/15	-418.	-5.75E+05	5.74E+05	-5.68E+05	5.68E+05	-8.52E+06	8.53E+06
1/10	-627.	-8.63E+05	8.63E+05	-8.54E+05	8.53E+05	-8.53E+06	8.54E+06

Table R–1290. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.18E+04	-1.05E+05	1.47E+05	-9.63E+04	1.45E+05	-6.49E+06	8.02E+06
1/20	9.21E+04	-3.17E+05	3.42E+05	-1.75E+05	3.39E+05	-5.35E+06	4.94E+06
1/15	-1.33E+04	-9.71E+05	2.87E+05	-7.06E+05	2.39E+05	-1.04E+07	3.79E+06
1/10	-2.45E+06	-2.14E+06	-2.12E+06	-2.14E+06	-2.12E+06	3.08E+06	3.31E+06

Table R–1291. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.30E+03	-1.03E+05	1.44E+05	-1.03E+05	1.42E+05	-6.72E+06	7.99E+06
1/20	1.12E+05	-8.27E+04	3.66E+05	-7.03E+04	3.63E+05	-3.65E+06	5.01E+06
1/15	1.05E+03	-7.31E+05	2.95E+05	-6.33E+05	2.50E+05	-9.51E+06	3.73E+06
1/10	-3.55E+05	-1.71E+06	2.34E+05	-1.70E+06	2.19E+05	-1.34E+07	5.74E+06

Table R–1292. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	62.5	-1.42E+05	1.42E+05	-1.42E+05	1.42E+05	-8.51E+06	8.50E+06
1/20	187.	-4.27E+05	4.27E+05	-4.25E+05	4.25E+05	-8.51E+06	8.50E+06
1/15	250.	-5.69E+05	5.69E+05	-5.67E+05	5.67E+05	-8.51E+06	8.50E+06
1/10	375.	-8.53E+05	8.53E+05	-8.50E+05	8.50E+05	-8.51E+06	8.50E+06

Table R–1293. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.30E+03	-1.01E+05	1.35E+05	-1.01E+05	1.34E+05	-6.52E+06	7.60E+06
1/20	9.90E+04	-8.00E+04	2.98E+05	-7.42E+04	2.97E+05	-3.46E+06	3.96E+06
1/15	-1.45E+04	-7.87E+05	2.67E+05	-7.54E+05	2.30E+05	-1.11E+07	3.67E+06
1/10	-3.34E+05	-1.69E+06	2.42E+05	-1.60E+06	2.39E+05	-1.27E+07	5.73E+06

Table R–1294. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	7.30E+03	-1.01E+05	1.35E+05	-1.01E+05	1.34E+05	-6.52E+06	7.60E+06
1/20	9.90E+04	-8.00E+04	2.98E+05	-7.42E+04	2.97E+05	-3.46E+06	3.96E+06
1/15	-1.45E+04	-7.87E+05	2.67E+05	-7.54E+05	2.30E+05	-1.11E+07	3.67E+06
1/10	-3.34E+05	-1.69E+06	2.42E+05	-1.60E+06	2.39E+05	-1.27E+07	5.73E+06

Table R–1295. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1296. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-432.	-1.03E+05	1.06E+05	-1.02E+05	1.06E+05	-6.09E+06	6.37E+06
1/20	-4.23E+04	-1.82E+05	1.89E+04	-1.79E+05	1.75E+04	-2.73E+06	1.20E+06
1/15	-6.18E+04	-3.13E+05	8.15E+04	-3.10E+05	8.03E+04	-3.72E+06	2.13E+06
1/10	—	—	—	—	—	—	—

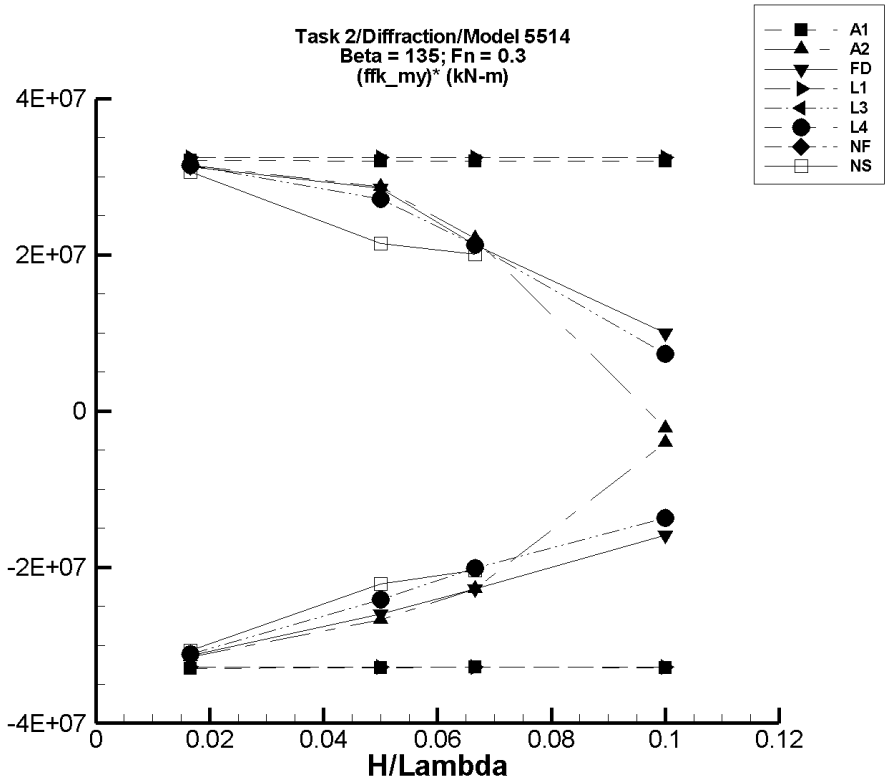

Figure R–163. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1297. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	799.	-5.50E+05	5.50E+05	-5.48E+05	5.36E+05	-3.29E+07	3.21E+07
1/20	2.39E+03	-1.65E+06	1.64E+06	-1.64E+06	1.60E+06	-3.28E+07	3.20E+07
1/15	3.18E+03	-2.19E+06	2.19E+06	-2.18E+06	2.13E+06	-3.28E+07	3.20E+07
1/10	4.78E+03	-3.29E+06	3.29E+06	-3.28E+06	3.21E+06	-3.28E+07	3.20E+07

Table R–1298. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.29E+04	-5.15E+05	5.52E+05	-5.12E+05	5.38E+05	-3.15E+07	3.15E+07
1/20	1.00E+05	-1.51E+06	1.57E+06	-1.24E+06	1.53E+06	-2.67E+07	2.87E+07
1/15	-1.83E+04	-1.54E+06	1.59E+06	-1.54E+06	1.45E+06	-2.28E+07	2.21E+07
1/10	-9.29E+05	-1.34E+06	-1.15E+06	-1.34E+06	-1.15E+06	-4.10E+06	-2.24E+06

Table R–1299. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	9.65E+03	-5.16E+05	5.45E+05	-5.12E+05	5.31E+05	-3.13E+07	3.13E+07
1/20	1.13E+05	-1.19E+06	1.58E+06	-1.19E+06	1.54E+06	-2.60E+07	2.85E+07
1/15	-8.64E+03	-1.53E+06	1.57E+06	-1.53E+06	1.41E+06	-2.28E+07	2.13E+07
1/10	-3.61E+05	-2.15E+06	7.64E+05	-1.96E+06	6.36E+05	-1.59E+07	9.97E+06

Table R–1300. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	627.	-5.46E+05	5.46E+05	-5.46E+05	5.41E+05	-3.28E+07	3.24E+07
1/20	1.88E+03	-1.64E+06	1.64E+06	-1.64E+06	1.62E+06	-3.28E+07	3.24E+07
1/15	2.51E+03	-2.18E+06	2.18E+06	-2.18E+06	2.16E+06	-3.28E+07	3.24E+07
1/10	3.76E+03	-3.28E+06	3.28E+06	-3.27E+06	3.25E+06	-3.28E+07	3.24E+07

Table R–1301. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.77E+03	-5.17E+05	5.37E+05	-5.11E+05	5.32E+05	-3.11E+07	3.15E+07
1/20	9.73E+04	-1.12E+06	1.47E+06	-1.11E+06	1.46E+06	-2.42E+07	2.72E+07
1/15	-2.97E+04	-1.38E+06	1.46E+06	-1.37E+06	1.39E+06	-2.01E+07	2.12E+07
1/10	-3.39E+05	-1.79E+06	4.54E+05	-1.71E+06	3.95E+05	-1.37E+07	7.34E+06

Table R–1302. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.77E+03	-5.17E+05	5.37E+05	-5.11E+05	5.32E+05	-3.11E+07	3.15E+07
1/20	9.73E+04	-1.12E+06	1.47E+06	-1.11E+06	1.46E+06	-2.42E+07	2.72E+07
1/15	-2.97E+04	-1.38E+06	1.46E+06	-1.37E+06	1.39E+06	-2.01E+07	2.12E+07
1/10	-3.39E+05	-1.79E+06	4.54E+05	-1.71E+06	3.95E+05	-1.37E+07	7.34E+06

Table R–1303. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1304. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	535.	-5.09E+05	5.17E+05	-5.11E+05	5.12E+05	-3.07E+07	3.07E+07
1/20	-4.26E+04	-1.14E+06	1.04E+06	-1.15E+06	1.03E+06	-2.21E+07	2.14E+07
1/15	-6.49E+04	-1.42E+06	1.28E+06	-1.43E+06	1.27E+06	-2.04E+07	2.00E+07
1/10	—	—	—	—	—	—	—

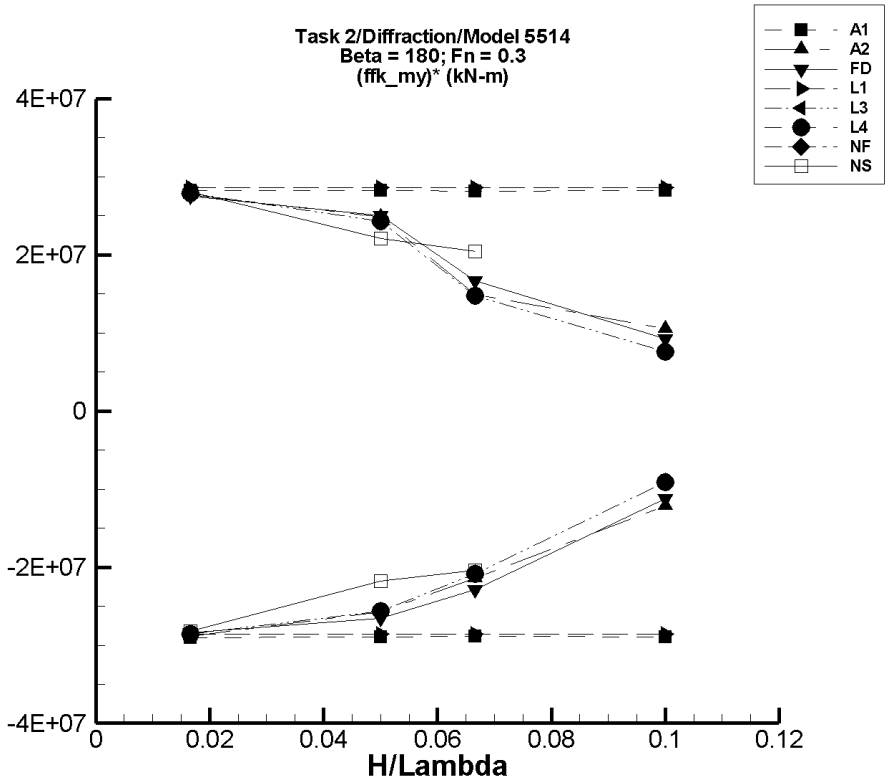

Figure R–164. Minimum and Maximum of $(M_y^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1305. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-864.	-4.87E+05	4.87E+05	-4.84E+05	4.70E+05	-2.90E+07	2.83E+07
1/20	-2.58E+03	-1.46E+06	1.46E+06	-1.45E+06	1.41E+06	-2.89E+07	2.82E+07
1/15	-3.44E+03	-1.94E+06	1.94E+06	-1.93E+06	1.87E+06	-2.89E+07	2.82E+07
1/10	-5.17E+03	-2.91E+06	2.91E+06	-2.90E+06	2.81E+06	-2.89E+07	2.82E+07

Table R–1306. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.04E+04	-4.74E+05	4.88E+05	-4.71E+05	4.72E+05	-2.89E+07	2.77E+07
1/20	1.09E+05	-1.27E+06	1.40E+06	-1.18E+06	1.35E+06	-2.58E+07	2.49E+07
1/15	-8.87E+03	-1.56E+06	1.04E+06	-1.44E+06	9.89E+05	-2.14E+07	1.50E+07
1/10	-4.53E+05	-2.15E+06	1.81E+06	-1.67E+06	6.01E+05	-1.22E+07	1.05E+07

Table R–1307. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	7.35E+03	-4.71E+05	4.82E+05	-4.66E+05	4.66E+05	-2.84E+07	2.75E+07
1/20	1.05E+05	-1.27E+06	1.41E+06	-1.22E+06	1.36E+06	-2.65E+07	2.50E+07
1/15	-2.19E+04	-1.58E+06	1.16E+06	-1.55E+06	1.09E+06	-2.29E+07	1.66E+07
1/10	-3.80E+05	-1.74E+06	6.87E+05	-1.50E+06	5.39E+05	-1.12E+07	9.19E+06

Table R–1308. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{fk}} \rangle$	Unfiltered M_y^{fk}		Filtered M_y^{fk}		Filtered $\left(M_y^{\text{fk}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-664.	-4.82E+05	4.82E+05	-4.77E+05	4.76E+05	-2.86E+07	2.86E+07
1/20	-1.99E+03	-1.45E+06	1.45E+06	-1.43E+06	1.43E+06	-2.86E+07	2.86E+07
1/15	-2.66E+03	-1.93E+06	1.93E+06	-1.91E+06	1.90E+06	-2.86E+07	2.86E+07
1/10	-3.99E+03	-2.89E+06	2.89E+06	-2.86E+06	2.86E+06	-2.86E+07	2.86E+07

Table R–1309. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	5.49E+03	-4.72E+05	4.76E+05	-4.71E+05	4.70E+05	-2.86E+07	2.79E+07
1/20	9.38E+04	-1.22E+06	1.32E+06	-1.19E+06	1.31E+06	-2.56E+07	2.43E+07
1/15	-1.99E+04	-1.46E+06	1.03E+06	-1.41E+06	9.63E+05	-2.09E+07	1.47E+07
1/10	-3.57E+05	-1.39E+06	4.95E+05	-1.27E+06	4.05E+05	-9.15E+06	7.62E+06

Table R–1310. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{fk}} \rangle$	**Unfiltered** M_y^{fk}		**Filtered** M_y^{fk}		**Filtered** $\left(M_y^{\text{fk}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	5.49E+03	-4.72E+05	4.76E+05	-4.71E+05	4.70E+05	-2.86E+07	2.79E+07
1/20	9.38E+04	-1.22E+06	1.32E+06	-1.19E+06	1.31E+06	-2.56E+07	2.43E+07
1/15	-1.99E+04	-1.46E+06	1.03E+06	-1.41E+06	9.63E+05	-2.09E+07	1.47E+07
1/10	-3.57E+05	-1.39E+06	4.95E+05	-1.27E+06	4.05E+05	-9.15E+06	7.62E+06

Table R–1311. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1312. Minimum and Maximum of M_y^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-570.	-4.70E+05	4.72E+05	-4.70E+05	4.67E+05	-2.82E+07	2.80E+07
1/20	-4.48E+04	-1.15E+06	1.07E+06	-1.13E+06	1.06E+06	-2.18E+07	2.21E+07
1/15	-6.74E+04	-1.44E+06	1.30E+06	-1.43E+06	1.30E+06	-2.04E+07	2.05E+07
1/10	—	—	—	—	—	—	—

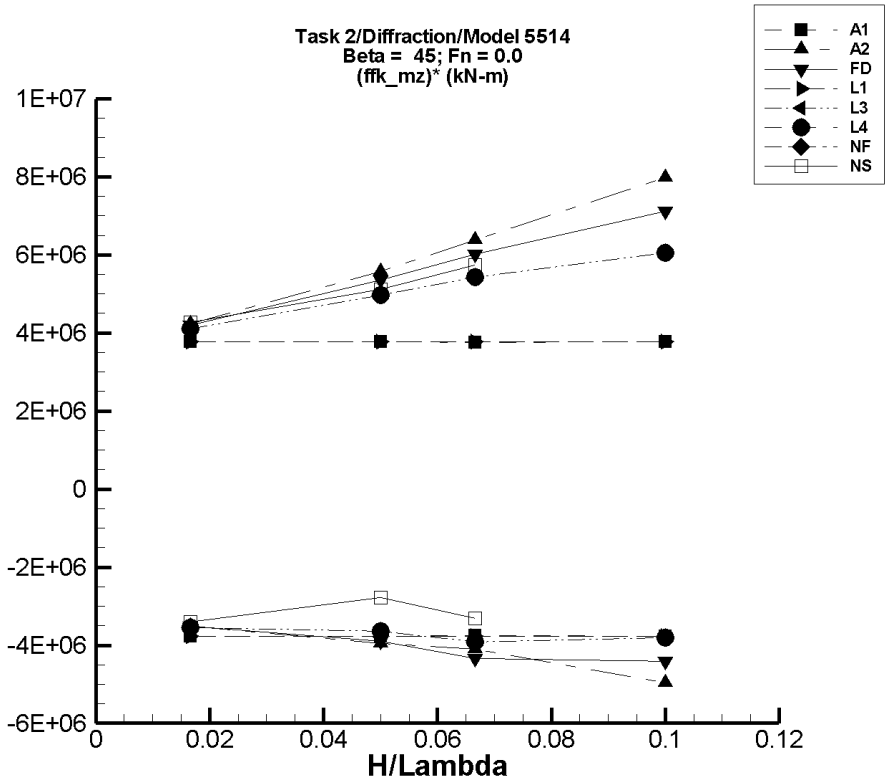

Figure R–165. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1313. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-43.3	-6.37E+04	6.37E+04	-6.30E+04	6.30E+04	-3.78E+06	3.78E+06
1/20	-130.	-1.90E+05	1.90E+05	-1.88E+05	1.88E+05	-3.77E+06	3.77E+06
1/15	-173.	-2.54E+05	2.54E+05	-2.51E+05	2.51E+05	-3.76E+06	3.76E+06
1/10	-259.	-3.81E+05	3.81E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

Table R–1314. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-70.4	-5.90E+04	7.13E+04	-5.85E+04	7.04E+04	-3.51E+06	4.23E+06
1/20	-2.52E+03	-4.57E+05	2.80E+05	-2.00E+05	2.76E+05	-3.95E+06	5.57E+06
1/15	260.	-6.00E+05	4.32E+05	-2.73E+05	4.25E+05	-4.10E+06	6.37E+06
1/10	-3.30E+04	-9.54E+05	7.77E+05	-5.30E+05	7.65E+05	-4.97E+06	7.98E+06

Table R–1315. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	29.7	-5.92E+04	7.09E+04	-5.87E+04	6.99E+04	-3.52E+06	4.19E+06
1/20	928.	-1.97E+05	2.73E+05	-1.94E+05	2.68E+05	-3.90E+06	5.35E+06
1/15	1.59E+03	-2.96E+05	4.09E+05	-2.88E+05	4.03E+05	-4.34E+06	6.02E+06
1/10	1.66E+03	-4.56E+05	7.28E+05	-4.40E+05	7.13E+05	-4.42E+06	7.12E+06

Table R–1316. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-22.2	-6.30E+04	6.30E+04	-6.28E+04	6.28E+04	-3.77E+06	3.77E+06
1/20	-66.6	-1.89E+05	1.89E+05	-1.88E+05	1.88E+05	-3.77E+06	3.77E+06
1/15	-88.7	-2.52E+05	2.52E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	-133.	-3.78E+05	3.78E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

Table R–1317. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-14.5	-5.93E+04	6.86E+04	-5.91E+04	6.83E+04	-3.55E+06	4.10E+06
1/20	377.	-1.83E+05	2.50E+05	-1.82E+05	2.48E+05	-3.64E+06	4.96E+06
1/15	577.	-2.63E+05	3.64E+05	-2.60E+05	3.63E+05	-3.91E+06	5.43E+06
1/10	345.	-3.84E+05	6.09E+05	-3.80E+05	6.05E+05	-3.80E+06	6.05E+06

Table R–1318. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-14.5	-5.93E+04	6.86E+04	-5.91E+04	6.83E+04	-3.55E+06	4.10E+06
1/20	377.	-1.83E+05	2.50E+05	-1.82E+05	2.48E+05	-3.64E+06	4.96E+06
1/15	577.	-2.63E+05	3.64E+05	-2.60E+05	3.63E+05	-3.91E+06	5.43E+06
1/10	345.	-3.84E+05	6.09E+05	-3.80E+05	6.05E+05	-3.80E+06	6.05E+06

Table R–1319. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1320. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.34	-5.72E+04	7.12E+04	-5.68E+04	7.12E+04	-3.41E+06	4.27E+06
1/20	-13.9	-1.42E+05	2.61E+05	-1.39E+05	2.56E+05	-2.77E+06	5.12E+06
1/15	152.	-2.25E+05	3.87E+05	-2.21E+05	3.82E+05	-3.31E+06	5.73E+06
1/10	—	—	—	—	—	—	—

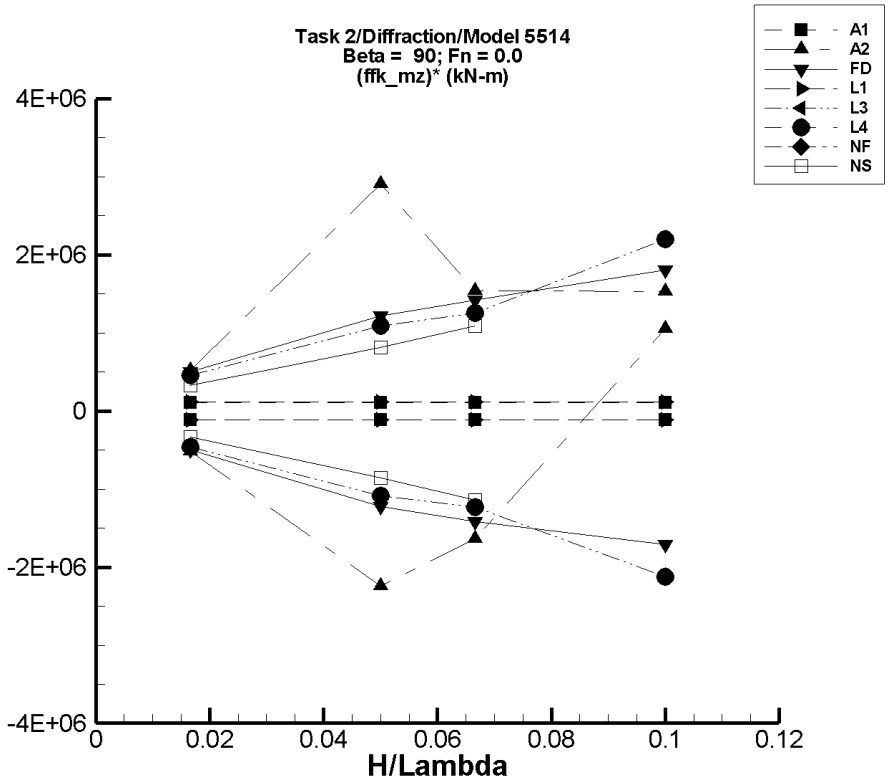

Figure R–166. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1321. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.84	-1.85E+03	1.85E+03	-1.85E+03	1.83E+03	-1.11E+05	1.10E+05
1/20	5.49	-5.55E+03	5.54E+03	-5.54E+03	5.48E+03	-1.11E+05	1.10E+05
1/15	7.31	-7.38E+03	7.38E+03	-7.37E+03	7.30E+03	-1.11E+05	1.09E+05
1/10	11.0	-1.11E+04	1.11E+04	-1.11E+04	1.10E+04	-1.11E+05	1.10E+05

Table R–1322. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-47.6	-9.05E+03	9.05E+03	-8.68E+03	8.67E+03	-5.18E+05	5.23E+05
1/20	2.63E+03	-3.22E+05	3.29E+05	-1.10E+05	1.48E+05	-2.25E+06	2.91E+06
1/15	339.	-3.94E+05	3.79E+05	-1.09E+05	1.03E+05	-1.63E+06	1.54E+06
1/10	-3.29E+04	7.19E+04	1.21E+05	7.19E+04	1.21E+05	1.05E+06	1.53E+06

Table R–1323. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.86	-8.69E+03	8.70E+03	-8.37E+03	8.35E+03	-5.02E+05	5.01E+05
1/20	193.	-6.37E+04	6.37E+04	-6.11E+04	6.09E+04	-1.23E+06	1.21E+06
1/15	91.3	-1.03E+05	1.03E+05	-9.43E+04	9.48E+04	-1.42E+06	1.42E+06
1/10	-4.45E+03	-2.14E+05	2.14E+05	-1.76E+05	1.76E+05	-1.71E+06	1.80E+06

Table R–1324. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	1.32	-1.91E+03	1.91E+03	-1.91E+03	1.90E+03	-1.15E+05	1.14E+05
1/20	3.98	-5.73E+03	5.73E+03	-5.73E+03	5.71E+03	-1.15E+05	1.14E+05
1/15	5.31	-7.64E+03	7.64E+03	-7.64E+03	7.61E+03	-1.15E+05	1.14E+05
1/10	7.96	-1.15E+04	1.15E+04	-1.15E+04	1.14E+04	-1.15E+05	1.14E+05

Table R–1325. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-8.97	-7.74E+03	7.74E+03	-7.64E+03	7.65E+03	-4.58E+05	4.59E+05
1/20	-162.	-5.50E+04	5.50E+04	-5.45E+04	5.45E+04	-1.09E+06	1.09E+06
1/15	-568.	-8.63E+04	8.65E+04	-8.31E+04	8.31E+04	-1.24E+06	1.25E+06
1/10	-3.94E+03	-2.35E+05	2.35E+05	-2.16E+05	2.16E+05	-2.12E+06	2.20E+06

Table R–1326. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-8.97	-7.74E+03	7.74E+03	-7.64E+03	7.65E+03	-4.58E+05	4.59E+05
1/20	-162.	-5.50E+04	5.50E+04	-5.45E+04	5.45E+04	-1.09E+06	1.09E+06
1/15	-568.	-8.63E+04	8.65E+04	-8.31E+04	8.31E+04	-1.24E+06	1.25E+06
1/10	-3.94E+03	-2.35E+05	2.35E+05	-2.16E+05	2.16E+05	-2.12E+06	2.20E+06

Table R–1327. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1328. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.01	-5.68E+03	5.69E+03	-5.48E+03	5.49E+03	-3.29E+05	3.29E+05
1/20	-177.	-4.45E+04	4.16E+04	-4.32E+04	4.05E+04	-8.61E+05	8.13E+05
1/15	-302.	-7.79E+04	7.38E+04	-7.62E+04	7.22E+04	-1.14E+06	1.09E+06
1/10	—	—	—	—	—	—	—

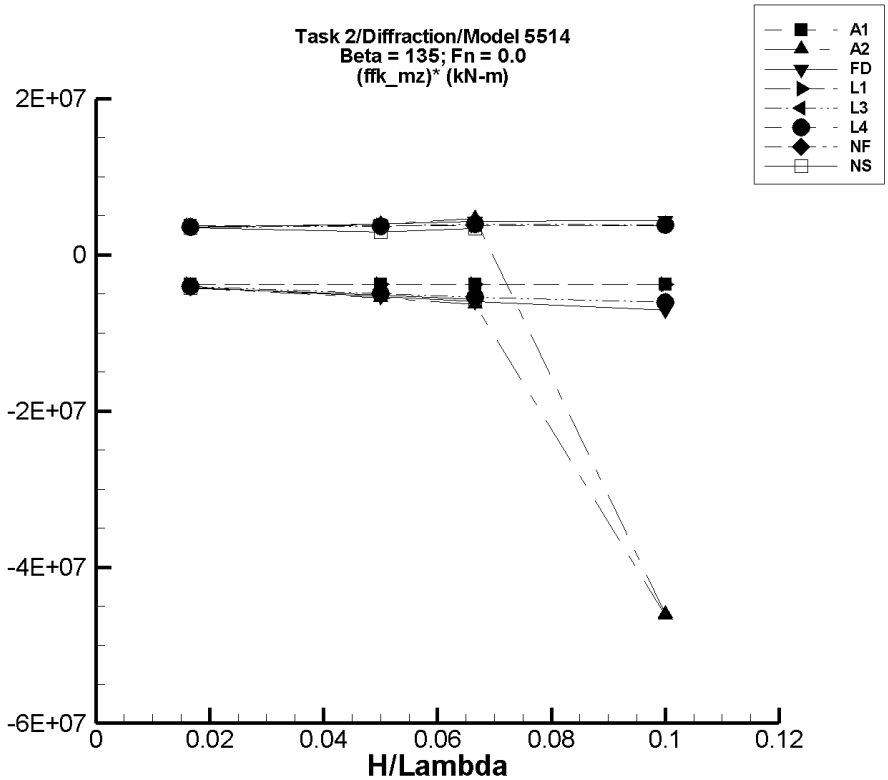

Figure R–167. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1329. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Max. (kN-m)
1/60	49.1	-6.37E+04	6.36E+04	-6.30E+04	6.30E+04	-3.78E+06	3.77E+06
1/20	147.	-1.90E+05	1.90E+05	-1.88E+05	1.88E+05	-3.77E+06	3.76E+06
1/15	196.	-2.54E+05	2.54E+05	-2.51E+05	2.51E+05	-3.77E+06	3.76E+06
1/10	294.	-3.81E+05	3.81E+05	-3.77E+05	3.77E+05	-3.77E+06	3.76E+06

Table R–1330. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Max. (kN-m)
1/60	7.29	-7.13E+04	5.90E+04	-7.04E+04	5.85E+04	-4.22E+06	3.51E+06
1/20	2.21E+03	-2.80E+05	4.71E+05	-2.76E+05	1.99E+05	-5.57E+06	3.94E+06
1/15	-1.47E+03	-4.32E+05	3.25E+05	-4.26E+05	3.11E+05	-6.36E+06	4.69E+06
1/10	5.09E+06	4.78E+05	4.98E+05	4.78E+05	4.98E+05	-4.62E+07	-4.60E+07

Table R–1331. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{fk}})^*$ Max. (kN-m)
1/60	-14.9	-7.09E+04	5.92E+04	-6.99E+04	5.87E+04	-4.19E+06	3.52E+06
1/20	-578.	-2.73E+05	1.97E+05	-2.68E+05	1.94E+05	-5.35E+06	3.89E+06
1/15	-857.	-4.09E+05	2.96E+05	-4.03E+05	2.88E+05	-6.03E+06	4.33E+06
1/10	-1.87E+03	-7.28E+05	4.56E+05	-7.14E+05	4.41E+05	-7.12E+06	4.42E+06

Table R–1332. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	0.968	-6.30E+04	6.30E+04	-6.28E+04	6.28E+04	-3.77E+06	3.77E+06
1/20	2.96	-1.89E+05	1.89E+05	-1.88E+05	1.88E+05	-3.77E+06	3.77E+06
1/15	3.87	-2.52E+05	2.52E+05	-2.51E+05	2.51E+05	-3.77E+06	3.77E+06
1/10	5.86	-3.78E+05	3.78E+05	-3.77E+05	3.77E+05	-3.77E+06	3.77E+06

Table R–1333. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	-7.85	-6.86E+04	5.93E+04	-6.83E+04	5.91E+04	-4.10E+06	3.55E+06
1/20	-559.	-2.50E+05	1.83E+05	-2.48E+05	1.82E+05	-4.95E+06	3.65E+06
1/15	-920.	-3.64E+05	2.62E+05	-3.63E+05	2.60E+05	-5.43E+06	3.92E+06
1/10	-1.41E+03	-6.09E+05	3.84E+05	-6.05E+05	3.80E+05	-6.04E+06	3.81E+06

Table R–1334. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	-7.85	-6.86E+04	5.93E+04	-6.83E+04	5.91E+04	-4.10E+06	3.55E+06
1/20	-559.	-2.50E+05	1.83E+05	-2.48E+05	1.82E+05	-4.95E+06	3.65E+06
1/15	-920.	-3.64E+05	2.62E+05	-3.63E+05	2.60E+05	-5.43E+06	3.92E+06
1/10	-1.41E+03	-6.09E+05	3.84E+05	-6.05E+05	3.80E+05	-6.04E+06	3.81E+06

Table R–1335. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1336. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	8.03	-7.11E+04	5.78E+04	-7.01E+04	5.74E+04	-4.21E+06	3.44E+06
1/20	-373.	-2.61E+05	1.49E+05	-2.56E+05	1.46E+05	-5.12E+06	2.93E+06
1/15	-786.	-3.87E+05	2.29E+05	-3.83E+05	2.25E+05	-5.73E+06	3.39E+06
1/10	—	—	—	—	—	—	—

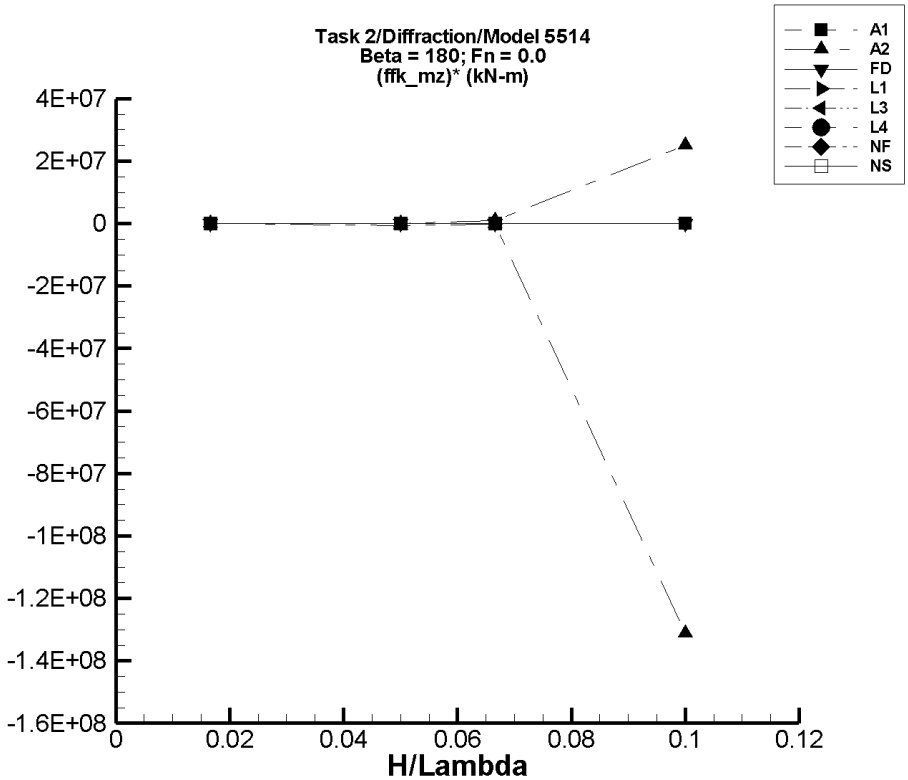

Figure R–168. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1337. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.64E-06	-4.69E-03	4.69E-03	-4.64E-03	4.64E-03	-0.279	0.278
1/20	1.09E-05	-1.40E-02	1.40E-02	-1.39E-02	1.39E-02	-0.278	0.277
1/15	1.45E-05	-1.87E-02	1.87E-02	-1.85E-02	1.85E-02	-0.278	0.277
1/10	2.18E-05	-2.81E-02	2.81E-02	-2.78E-02	2.78E-02	-0.278	0.277

Table R–1338. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.61E-04	-4.58E-02	6.13E-02	-1.26E-02	2.87E-03	-0.784	0.145
1/20	-1.60E+03	-2.71E+05	0.812	-3.61E+04	3.09E+03	-6.90E+05	9.37E+04
1/15	4.49E+03	-3.95E+03	4.47E+05	-5.19E+03	6.16E+04	-1.45E+05	8.57E+05
1/10	-1.17E+06	-1.06E+08	1.05E+06	-1.43E+07	1.32E+06	-1.31E+08	2.50E+07

Table R–1339. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.48E-04	-1.53E-02	1.90E-02	-2.16E-03	3.61E-03	-0.108	0.237
1/20	1.14E-03	-7.36E-02	7.49E-02	-7.89E-03	1.62E-02	-0.181	0.302
1/15	9.25E-04	-0.154	9.82E-02	-2.12E-02	2.12E-02	-0.331	0.304
1/10	-1.75E-03	-0.295	0.137	-3.97E-02	2.65E-02	-0.379	0.283

Table R–1340. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1341. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1342. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1343. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1344. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.14E-03	-3.18E-02	4.35E-02	-8.37E-03	8.98E-03	-0.434	0.607
1/20	-2.39E-03	-0.104	8.82E-02	-4.35E-02	2.14E-02	-0.823	0.476
1/15	-4.87E-03	-0.168	0.185	-4.69E-02	3.96E-02	-0.630	0.667
1/10	—	—	—	—	—	—	—

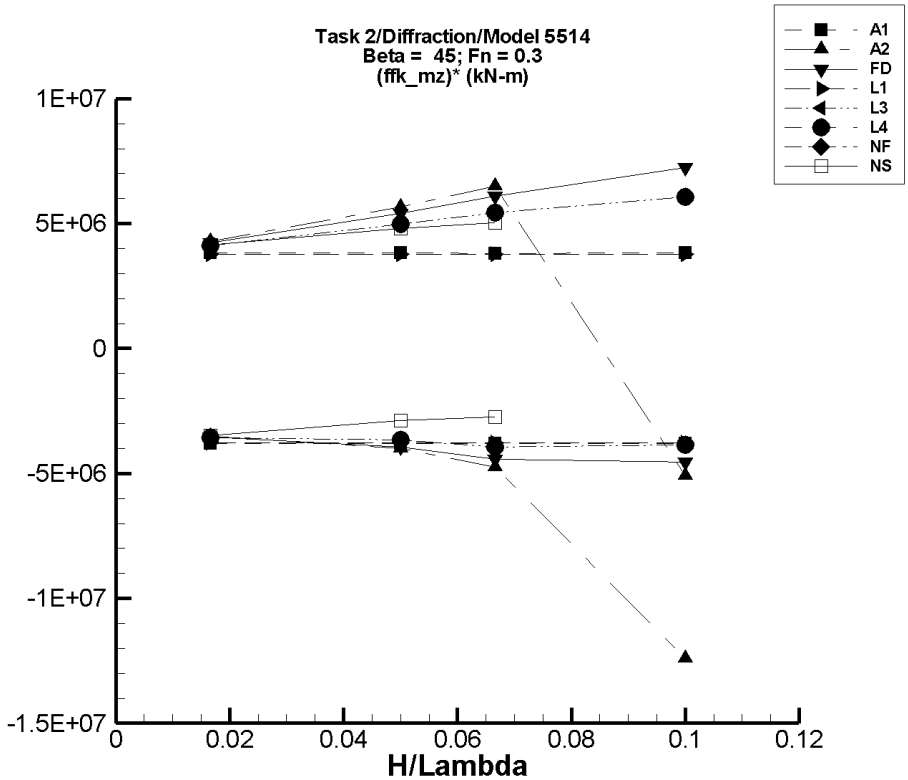

Figure R–169. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1345. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-76.9	-6.36E+04	6.36E+04	-6.34E+04	6.38E+04	-3.80E+06	3.83E+06
1/20	-230.	-1.90E+05	1.90E+05	-1.90E+05	1.91E+05	-3.79E+06	3.82E+06
1/15	-306.	-2.53E+05	2.53E+05	-2.53E+05	2.54E+05	-3.79E+06	3.81E+06
1/10	-460.	-3.81E+05	3.81E+05	-3.80E+05	3.81E+05	-3.79E+06	3.82E+06

Table R–1346. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-93.9	-5.90E+04	7.14E+04	-5.89E+04	7.16E+04	-3.53E+06	4.30E+06
1/20	-1.92E+03	-4.71E+05	2.80E+05	-2.03E+05	2.81E+05	-4.01E+06	5.66E+06
1/15	-1.55E+03	-6.03E+05	4.32E+05	-3.19E+05	4.31E+05	-4.76E+06	6.49E+06
1/10	6.41E+05	-1.14E+06	1.35E+05	-6.00E+05	1.31E+05	-1.24E+07	-5.10E+06

Table R–1347. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-13.1	-5.92E+04	7.09E+04	-5.91E+04	7.06E+04	-3.54E+06	4.24E+06
1/20	626.	-1.97E+05	2.73E+05	-1.97E+05	2.71E+05	-3.94E+06	5.42E+06
1/15	1.03E+03	-2.96E+05	4.09E+05	-2.94E+05	4.08E+05	-4.42E+06	6.10E+06
1/10	1.28E+03	-4.57E+05	7.28E+05	-4.53E+05	7.25E+05	-4.55E+06	7.24E+06

Table R–1348. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	12.8	-6.30E+04	6.30E+04	-6.29E+04	6.29E+04	-3.78E+06	3.77E+06
1/20	38.4	-1.89E+05	1.89E+05	-1.89E+05	1.89E+05	-3.78E+06	3.77E+06
1/15	51.2	-2.52E+05	2.52E+05	-2.52E+05	2.52E+05	-3.78E+06	3.77E+06
1/10	76.9	-3.78E+05	3.78E+05	-3.77E+05	3.77E+05	-3.78E+06	3.77E+06

Table R–1349. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	33.1	-5.93E+04	6.86E+04	-5.93E+04	6.85E+04	-3.56E+06	4.11E+06
1/20	794.	-1.83E+05	2.50E+05	-1.82E+05	2.49E+05	-3.66E+06	4.97E+06
1/15	1.52E+03	-2.63E+05	3.64E+05	-2.62E+05	3.64E+05	-3.95E+06	5.44E+06
1/10	1.68E+03	-3.84E+05	6.10E+05	-3.83E+05	6.09E+05	-3.85E+06	6.07E+06

Table R–1350. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	33.1	-5.93E+04	6.86E+04	-5.93E+04	6.85E+04	-3.56E+06	4.11E+06
1/20	794.	-1.83E+05	2.50E+05	-1.82E+05	2.49E+05	-3.66E+06	4.97E+06
1/15	1.52E+03	-2.63E+05	3.64E+05	-2.62E+05	3.64E+05	-3.95E+06	5.44E+06
1/10	1.68E+03	-3.84E+05	6.10E+05	-3.83E+05	6.09E+05	-3.85E+06	6.07E+06

Table R–1351. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1352. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-74.8	-5.83E+04	6.90E+04	-5.79E+04	6.90E+04	-3.47E+06	4.15E+06
1/20	-229.	-1.46E+05	2.40E+05	-1.44E+05	2.40E+05	-2.88E+06	4.80E+06
1/15	6.76	-1.85E+05	3.39E+05	-1.82E+05	3.35E+05	-2.74E+06	5.02E+06
1/10	—	—	—	—	—	—	—

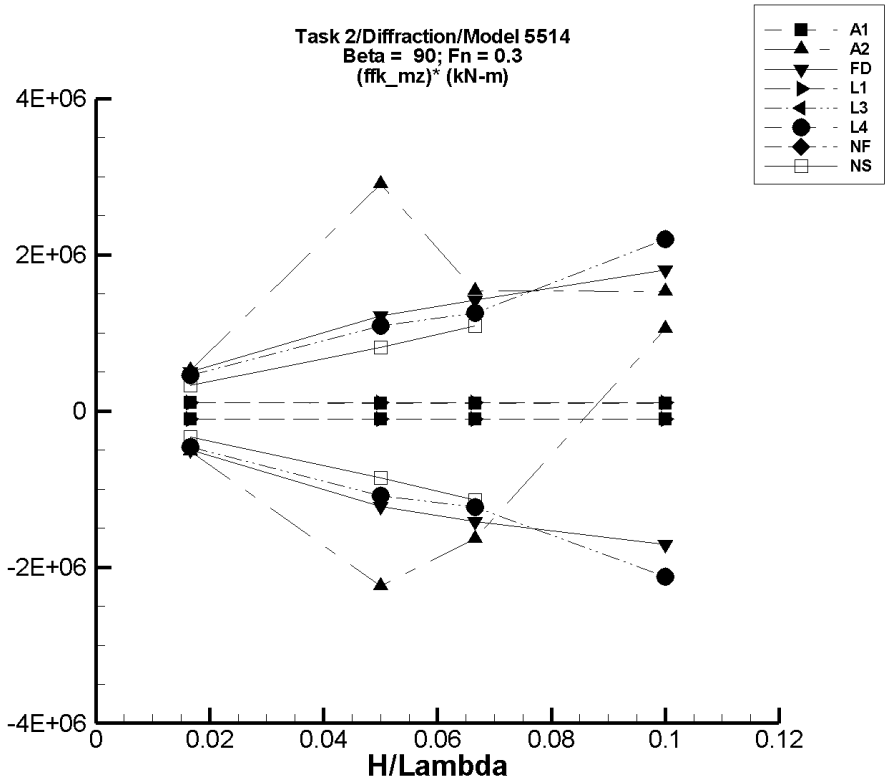

Figure R–170. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1353. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.71	-1.73E+03	1.73E+03	-1.73E+03	1.71E+03	-1.04E+05	1.03E+05
1/20	5.13	-5.18E+03	5.18E+03	-5.17E+03	5.12E+03	-1.04E+05	1.02E+05
1/15	6.83	-6.90E+03	6.90E+03	-6.89E+03	6.82E+03	-1.03E+05	1.02E+05
1/10	10.3	-1.04E+04	1.04E+04	-1.03E+04	1.02E+04	-1.04E+05	1.02E+05

Table R–1354. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-47.6	-9.05E+03	9.05E+03	-8.68E+03	8.67E+03	-5.18E+05	5.23E+05
1/20	2.63E+03	-3.22E+05	3.29E+05	-1.10E+05	1.48E+05	-2.25E+06	2.91E+06
1/15	339.	-3.94E+05	3.79E+05	-1.09E+05	1.03E+05	-1.63E+06	1.54E+06
1/10	-3.29E+04	7.19E+04	1.21E+05	7.19E+04	1.21E+05	1.05E+06	1.53E+06

Table R–1355. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.87	-8.69E+03	8.70E+03	-8.37E+03	8.35E+03	-5.02E+05	5.01E+05
1/20	193.	-6.37E+04	6.37E+04	-6.11E+04	6.09E+04	-1.23E+06	1.21E+06
1/15	91.5	-1.03E+05	1.03E+05	-9.43E+04	9.48E+04	-1.42E+06	1.42E+06
1/10	-4.45E+03	-2.14E+05	2.14E+05	-1.76E+05	1.76E+05	-1.71E+06	1.80E+06

Table R–1356. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	1.25	-1.80E+03	1.80E+03	-1.80E+03	1.79E+03	-1.08E+05	1.07E+05
1/20	3.74	-5.39E+03	5.39E+03	-5.39E+03	5.37E+03	-1.08E+05	1.07E+05
1/15	5.01	-7.18E+03	7.18E+03	-7.18E+03	7.16E+03	-1.08E+05	1.07E+05
1/10	7.48	-1.08E+04	1.08E+04	-1.08E+04	1.07E+04	-1.08E+05	1.07E+05

Table R–1357. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-8.96	-7.74E+03	7.74E+03	-7.64E+03	7.65E+03	-4.58E+05	4.59E+05
1/20	-162.	-5.50E+04	5.50E+04	-5.45E+04	5.45E+04	-1.09E+06	1.09E+06
1/15	-568.	-8.63E+04	8.64E+04	-8.31E+04	8.31E+04	-1.24E+06	1.25E+06
1/10	-3.94E+03	-2.35E+05	2.35E+05	-2.16E+05	2.16E+05	-2.12E+06	2.20E+06

Table R–1358. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-8.96	-7.74E+03	7.74E+03	-7.64E+03	7.65E+03	-4.58E+05	4.59E+05
1/20	-162.	-5.50E+04	5.50E+04	-5.45E+04	5.45E+04	-1.09E+06	1.09E+06
1/15	-568.	-8.63E+04	8.64E+04	-8.31E+04	8.31E+04	-1.24E+06	1.25E+06
1/10	-3.94E+03	-2.35E+05	2.35E+05	-2.16E+05	2.16E+05	-2.12E+06	2.20E+06

Table R–1359. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1360. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	6.77	-5.68E+03	5.70E+03	-5.49E+03	5.49E+03	-3.30E+05	3.29E+05
1/20	-165.	-4.45E+04	4.16E+04	-4.32E+04	4.05E+04	-8.61E+05	8.13E+05
1/15	-302.	-7.79E+04	7.38E+04	-7.62E+04	7.22E+04	-1.14E+06	1.09E+06
1/10	—	—	—	—	—	—	—

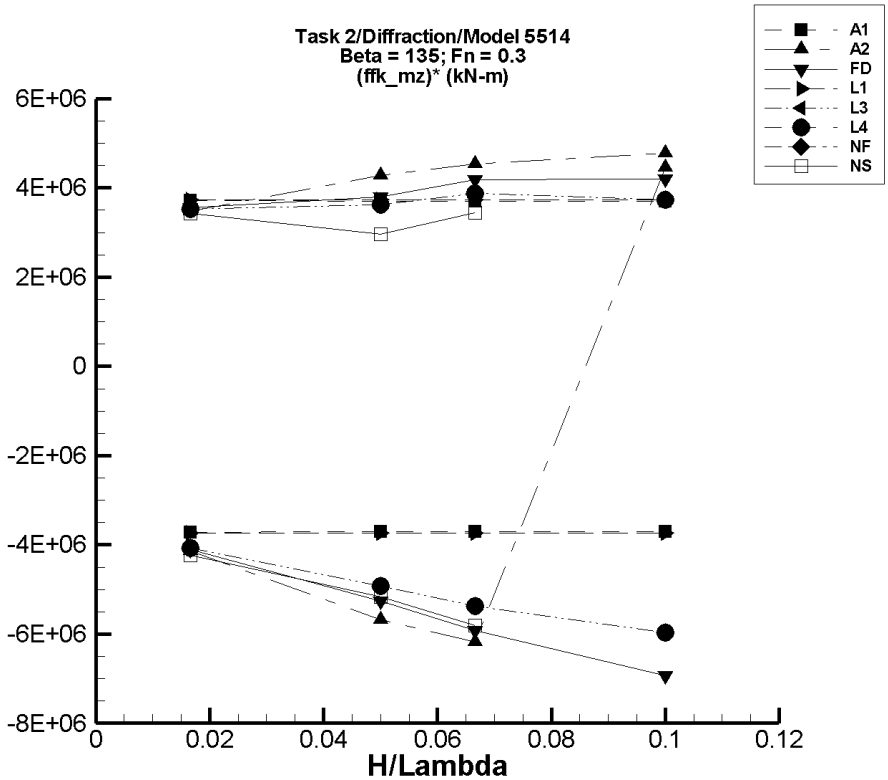

Figure R–171. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1361. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	68.7	-6.36E+04	6.36E+04	-6.19E+04	6.20E+04	-3.72E+06	3.71E+06
1/20	206.	-1.90E+05	1.90E+05	-1.85E+05	1.85E+05	-3.71E+06	3.70E+06
1/15	274.	-2.53E+05	2.53E+05	-2.46E+05	2.47E+05	-3.70E+06	3.70E+06
1/10	411.	-3.80E+05	3.81E+05	-3.70E+05	3.71E+05	-3.71E+06	3.70E+06

Table R–1362. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	44.9	-7.13E+04	5.89E+04	-6.90E+04	5.79E+04	-4.14E+06	3.47E+06
1/20	1.29E+04	-2.80E+05	4.71E+05	-2.71E+05	2.27E+05	-5.68E+06	4.28E+06
1/15	-5.24E+03	-4.32E+05	3.27E+05	-4.17E+05	2.97E+05	-6.17E+06	4.53E+06
1/10	1.46E+04	4.60E+05	4.93E+05	4.60E+05	4.93E+05	4.45E+06	4.78E+06

Table R–1363. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-36.4	-7.09E+04	5.92E+04	-6.86E+04	5.93E+04	-4.11E+06	3.56E+06
1/20	-262.	-2.73E+05	1.97E+05	-2.63E+05	1.90E+05	-5.26E+06	3.80E+06
1/15	-384.	-4.09E+05	2.96E+05	-3.95E+05	2.78E+05	-5.92E+06	4.18E+06
1/10	-674.	-7.28E+05	4.56E+05	-6.93E+05	4.19E+05	-6.92E+06	4.20E+06

Table R–1364. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	38.5	-6.29E+04	6.29E+04	-6.24E+04	6.24E+04	-3.74E+06	3.74E+06
1/20	116.	-1.89E+05	1.89E+05	-1.87E+05	1.87E+05	-3.74E+06	3.74E+06
1/15	154.	-2.52E+05	2.52E+05	-2.49E+05	2.49E+05	-3.74E+06	3.74E+06
1/10	231.	-3.78E+05	3.78E+05	-3.74E+05	3.74E+05	-3.74E+06	3.74E+06

Table R–1365. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	27.5	-6.86E+04	5.93E+04	-6.78E+04	5.89E+04	-4.07E+06	3.53E+06
1/20	-459.	-2.50E+05	1.83E+05	-2.46E+05	1.80E+05	-4.92E+06	3.62E+06
1/15	-1.03E+03	-3.64E+05	2.63E+05	-3.60E+05	2.57E+05	-5.38E+06	3.88E+06
1/10	-1.02E+03	-6.10E+05	3.84E+05	-5.98E+05	3.72E+05	-5.97E+06	3.73E+06

Table R–1366. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{fk}}\right)^*$ Max. (kN-m)
1/60	27.5	-6.86E+04	5.93E+04	-6.78E+04	5.89E+04	-4.07E+06	3.53E+06
1/20	-459.	-2.50E+05	1.83E+05	-2.46E+05	1.80E+05	-4.92E+06	3.62E+06
1/15	-1.03E+03	-3.64E+05	2.63E+05	-3.60E+05	2.57E+05	-5.38E+06	3.88E+06
1/10	-1.02E+03	-6.10E+05	3.84E+05	-5.98E+05	3.72E+05	-5.97E+06	3.73E+06

Table R–1367. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1368. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	35.3	-7.14E+04	5.77E+04	-7.04E+04	5.72E+04	-4.23E+06	3.43E+06
1/20	-407.	-2.64E+05	1.51E+05	-2.59E+05	1.47E+05	-5.17E+06	2.96E+06
1/15	-845.	-3.92E+05	2.32E+05	-3.88E+05	2.28E+05	-5.80E+06	3.44E+06
1/10	—	—	—	—	—	—	—

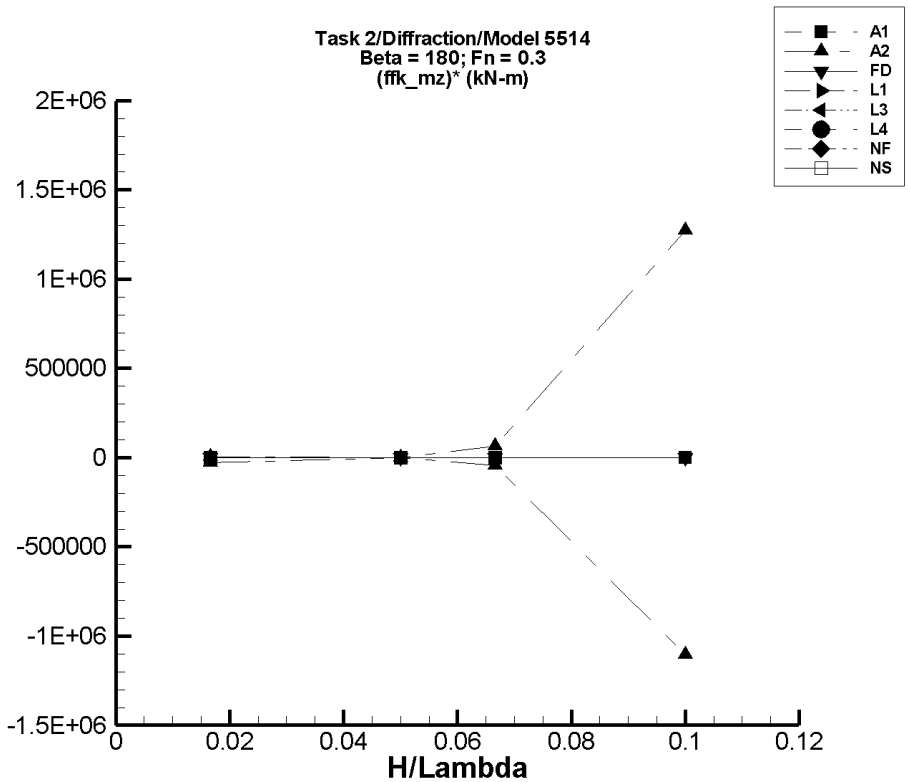

Figure R–172. Minimum and Maximum of $(M_z^{\mathrm{fk}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1369. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-4.92E-06	-4.69E-03	4.69E-03	-4.54E-03	4.53E-03	-0.272	0.272
1/20	-1.47E-05	-1.40E-02	1.40E-02	-1.36E-02	1.36E-02	-0.271	0.271
1/15	-1.96E-05	-1.87E-02	1.87E-02	-1.81E-02	1.80E-02	-0.271	0.271
1/10	-2.94E-05	-2.81E-02	2.81E-02	-2.72E-02	2.71E-02	-0.271	0.271

Table R–1370. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	-45.4	-3.73E+03	3.78E-02	-497.	42.6	-2.71E+04	5.28E+03
1/20	3.25E-02	-2.06	1.20	-0.163	0.187	-3.92	3.10
1/15	167.	-3.95E+03	3.46E+04	-2.83E+03	4.46E+03	-4.49E+04	6.44E+04
1/10	-6.95E+03	-6.89E+05	9.45E+05	-1.17E+05	1.20E+05	-1.10E+06	1.27E+06

Table R–1371. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{fk}} \rangle$ Mean (kN-m)	Unfiltered M_z^{fk} Min. (kN-m)	Unfiltered M_z^{fk} Max. (kN-m)	Filtered M_z^{fk} Min. (kN-m)	Filtered M_z^{fk} Max. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{fk}})^*$ Max. (kN-m)
1/60	1.99E-02	-8.97E-02	0.220	-4.19E-02	0.162	-3.71	8.50
1/20	2.01E-03	-0.509	0.538	-0.278	0.176	-5.59	3.47
1/15	7.76E-03	-1.31	0.975	-0.462	0.437	-7.05	6.43
1/10	3.66E-02	-2.57	2.79	-0.777	0.611	-8.14	5.75

Table R–1372. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1373. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1374. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1375. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1376. Minimum and Maximum of M_z^{fk} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{fk}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{fk} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{fk}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	9.79E-04	-3.04E-02	3.68E-02	-1.06E-02	1.58E-02	-0.695	0.886
1/20	-4.21E-04	-0.121	0.117	-1.71E-02	1.15E-02	-0.334	0.239
1/15	-6.01E-03	-0.266	0.195	-5.30E-02	5.79E-02	-0.705	0.958
1/10	—	—	—	—	—	—	—

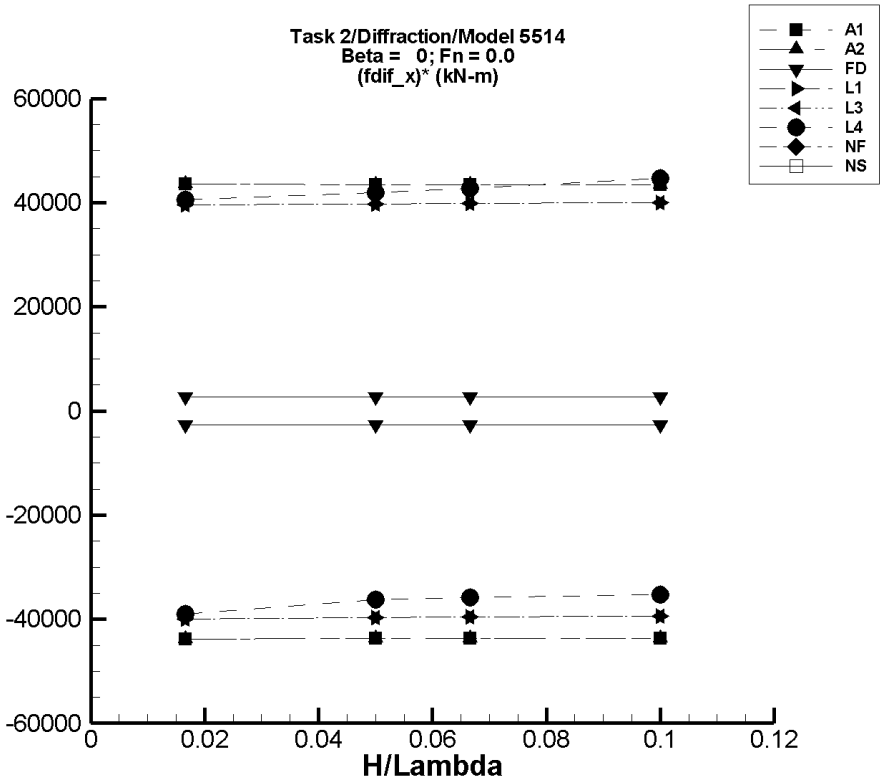

Figure R–173. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1377. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	0.930	-738.	735.	-730.	727.	-4.39E+04	4.36E+04
1/20	2.78	-2.21E+03	2.20E+03	-2.18E+03	2.18E+03	-4.37E+04	4.35E+04
1/15	3.71	-2.94E+03	2.93E+03	-2.91E+03	2.90E+03	-4.37E+04	4.34E+04
1/10	5.57	-4.41E+03	4.40E+03	-4.37E+03	4.35E+03	-4.37E+04	4.35E+04

Table R–1378. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	0.930	-738.	735.	-730.	727.	-4.39E+04	4.36E+04
1/20	2.78	-2.21E+03	2.20E+03	-2.18E+03	2.18E+03	-4.37E+04	4.35E+04
1/15	3.71	-2.94E+03	2.93E+03	-2.91E+03	2.90E+03	-4.37E+04	4.34E+04
1/10	5.57	-4.41E+03	4.40E+03	-4.37E+03	4.35E+03	-4.37E+04	4.35E+04

Table R–1379. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	1.41E-03	-45.9	45.9	-45.4	45.4	-2.72E+03	2.72E+03
1/20	4.22E-03	-138.	138.	-136.	136.	-2.72E+03	2.72E+03
1/15	5.63E-03	-183.	183.	-181.	181.	-2.72E+03	2.72E+03
1/10	8.45E-03	-275.	275.	-272.	272.	-2.72E+03	2.72E+03

Table R–1380. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.261	-666.	662.	-666.	659.	-4.00E+04	3.96E+04
1/20	-5.81	-1.99E+03	1.99E+03	-1.99E+03	1.98E+03	-3.97E+04	3.98E+04
1/15	-11.1	-2.65E+03	2.66E+03	-2.65E+03	2.65E+03	-3.96E+04	3.99E+04
1/10	-26.7	-3.97E+03	4.00E+03	-3.97E+03	3.98E+03	-3.94E+04	4.01E+04

Table R–1381. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.261	-666.	662.	-666.	659.	-4.00E+04	3.96E+04
1/20	-5.81	-1.99E+03	1.99E+03	-1.99E+03	1.98E+03	-3.97E+04	3.98E+04
1/15	-11.1	-2.65E+03	2.66E+03	-2.65E+03	2.65E+03	-3.96E+04	3.99E+04
1/10	-26.7	-3.97E+03	4.00E+03	-3.97E+03	3.98E+03	-3.94E+04	4.01E+04

Table R–1382. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	38.3	-609.	718.	-611.	713.	-3.90E+04	4.05E+04
1/20	345.	-1.48E+03	2.48E+03	-1.47E+03	2.44E+03	-3.63E+04	4.20E+04
1/15	615.	-1.80E+03	3.54E+03	-1.77E+03	3.47E+03	-3.58E+04	4.28E+04
1/10	1.30E+03	-2.26E+03	6.17E+03	-2.23E+03	5.77E+03	-3.53E+04	4.47E+04

Table R–1383. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–1384. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

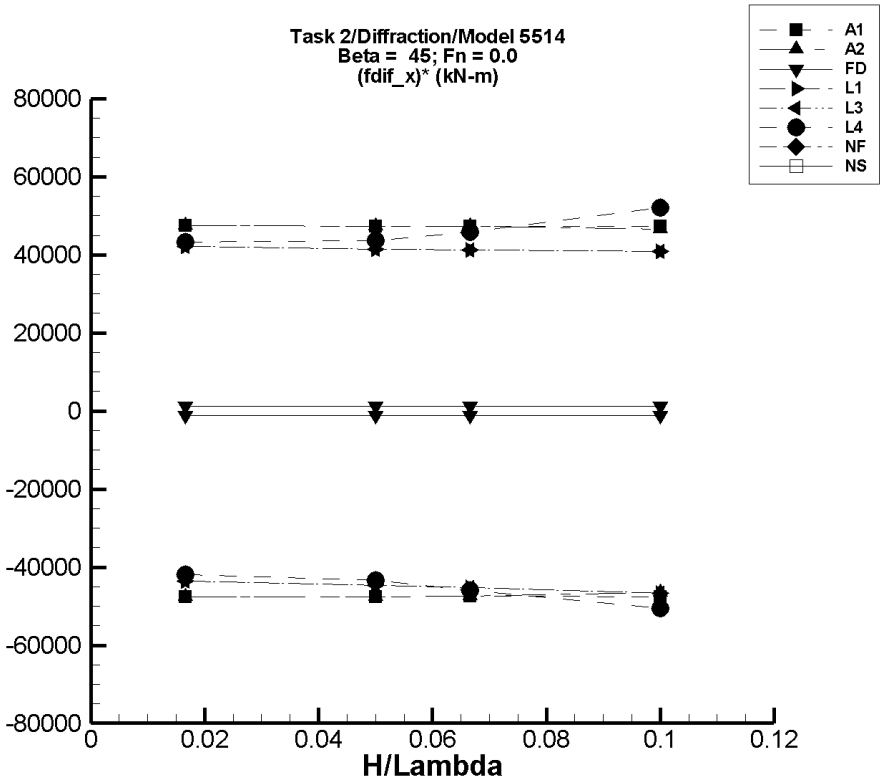

Figure R–174. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1385. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	0.588	-803.	801.	-794.	792.	-4.77E+04	4.75E+04
1/20	1.76	-2.40E+03	2.40E+03	-2.38E+03	2.37E+03	-4.76E+04	4.74E+04
1/15	2.34	-3.20E+03	3.19E+03	-3.16E+03	3.16E+03	-4.75E+04	4.73E+04
1/10	3.52	-4.80E+03	4.80E+03	-4.75E+03	4.74E+03	-4.76E+04	4.74E+04

Table R–1386. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	0.588	-803.	801.	-794.	792.	-4.77E+04	4.75E+04
1/20	1.76	-2.40E+03	2.40E+03	-2.38E+03	2.37E+03	-4.76E+04	4.74E+04
1/15	2.34	-3.20E+03	3.19E+03	-3.16E+03	3.16E+03	-4.75E+04	4.73E+04
1/10	51.1	-4.66E+03	4.68E+03	-4.61E+03	4.71E+03	-4.66E+04	4.66E+04

Table R–1387. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-5.75E-04	-20.4	20.5	-20.2	20.2	-1.21E+03	1.21E+03
1/20	-1.73E-03	-61.3	61.4	-60.7	60.7	-1.21E+03	1.21E+03
1/15	-2.30E-03	-81.8	81.8	-80.9	80.9	-1.21E+03	1.21E+03
1/10	-3.45E-03	-123.	123.	-121.	121.	-1.21E+03	1.21E+03

Table R–1388. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.11	-730.	704.	-727.	701.	-4.35E+04	4.22E+04
1/20	-18.8	-2.26E+03	2.06E+03	-2.25E+03	2.05E+03	-4.47E+04	4.15E+04
1/15	-33.4	-3.07E+03	2.72E+03	-3.05E+03	2.71E+03	-4.53E+04	4.12E+04
1/10	-75.0	-4.76E+03	4.04E+03	-4.74E+03	4.02E+03	-4.66E+04	4.09E+04

Table R–1389. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.11	-730.	704.	-727.	701.	-4.35E+04	4.22E+04
1/20	-18.8	-2.26E+03	2.06E+03	-2.25E+03	2.05E+03	-4.47E+04	4.15E+04
1/15	-33.4	-3.07E+03	2.72E+03	-3.05E+03	2.71E+03	-4.53E+04	4.12E+04
1/10	-75.0	-4.76E+03	4.04E+03	-4.74E+03	4.02E+03	-4.66E+04	4.09E+04

Table R–1390. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	45.8	-658.	776.	-652.	768.	-4.19E+04	4.33E+04
1/20	417.	-1.77E+03	2.62E+03	-1.75E+03	2.59E+03	-4.34E+04	4.36E+04
1/15	726.	-2.34E+03	3.87E+03	-2.33E+03	3.78E+03	-4.59E+04	4.58E+04
1/10	1.46E+03	-3.72E+03	6.80E+03	-3.59E+03	6.68E+03	-5.05E+04	5.21E+04

Table R–1391. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1392. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

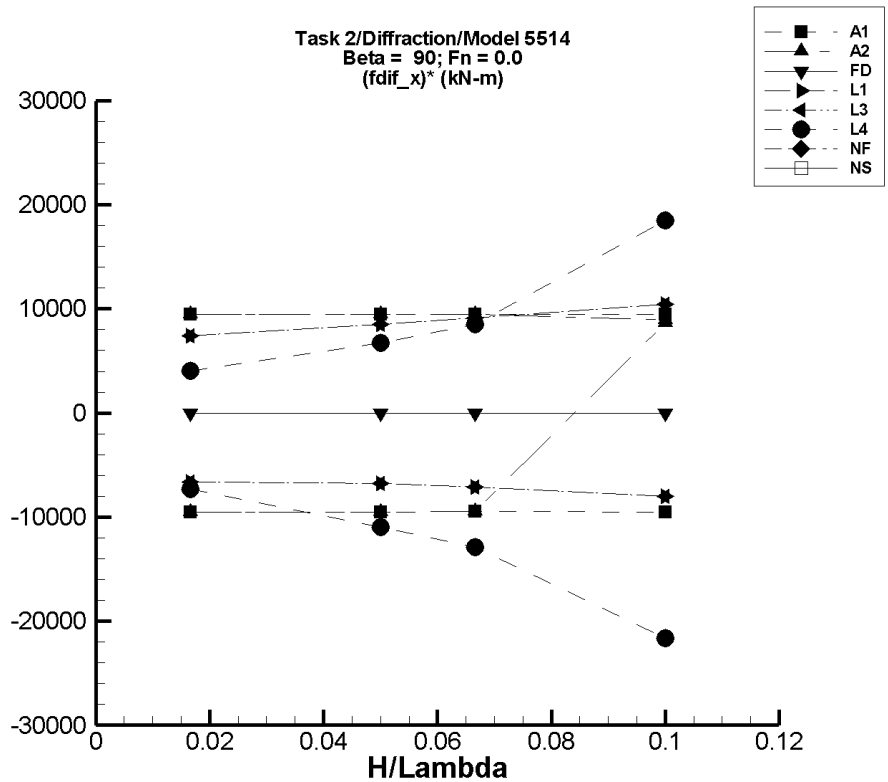

Figure R–175. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1393. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-1.39	-163.	159.	-160.	157.	-9.52E+03	9.48E+03
1/20	-4.15	-488.	475.	-479.	469.	-9.49E+03	9.46E+03
1/15	-5.53	-650.	633.	-637.	624.	-9.48E+03	9.44E+03
1/10	-8.30	-977.	950.	-957.	937.	-9.49E+03	9.46E+03

Table R–1394. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-1.39	-163.	159.	-160.	157.	-9.52E+03	9.48E+03
1/20	-4.15	-488.	475.	-479.	469.	-9.49E+03	9.46E+03
1/15	-5.53	-650.	633.	-637.	624.	-9.48E+03	9.44E+03
1/10	-1.70E+03	-837.	-809.	-837.	-809.	8.65E+03	8.93E+03

Table R–1395. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	2.11E-10	-6.22E-06	6.22E-06	-6.15E-06	6.15E-06	-3.69E-04	3.69E-04
1/20	6.32E-10	-1.87E-05	1.87E-05	-1.84E-05	1.84E-05	-3.69E-04	3.69E-04
1/15	8.41E-10	-2.49E-05	2.49E-05	-2.46E-05	2.46E-05	-3.69E-04	3.69E-04
1/10	1.26E-09	-3.73E-05	3.73E-05	-3.69E-05	3.69E-05	-3.69E-04	3.69E-04

Table R–1396. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-5.21	-116.	118.	-116.	118.	-6.63E+03	7.38E+03
1/20	-44.7	-384.	385.	-382.	382.	-6.74E+03	8.54E+03
1/15	-79.0	-555.	536.	-551.	531.	-7.09E+03	9.16E+03
1/10	-177.	-986.	875.	-979.	866.	-8.02E+03	1.04E+04

Table R–1397. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-5.21	-116.	118.	-116.	118.	-6.63E+03	7.38E+03
1/20	-44.7	-384.	385.	-382.	382.	-6.74E+03	8.54E+03
1/15	-79.0	-555.	536.	-551.	531.	-7.09E+03	9.16E+03
1/10	-177.	-986.	875.	-979.	866.	-8.02E+03	1.04E+04

Table R–1398. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	8.57	-127.	95.0	-113.	75.8	-7.30E+03	4.03E+03
1/20	33.4	-570.	407.	-516.	368.	-1.10E+04	6.70E+03
1/15	24.7	-943.	649.	-837.	591.	-1.29E+04	8.50E+03
1/10	-113.	-3.75E+03	1.83E+03	-2.28E+03	1.74E+03	-2.16E+04	1.85E+04

Table R–1399. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1400. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

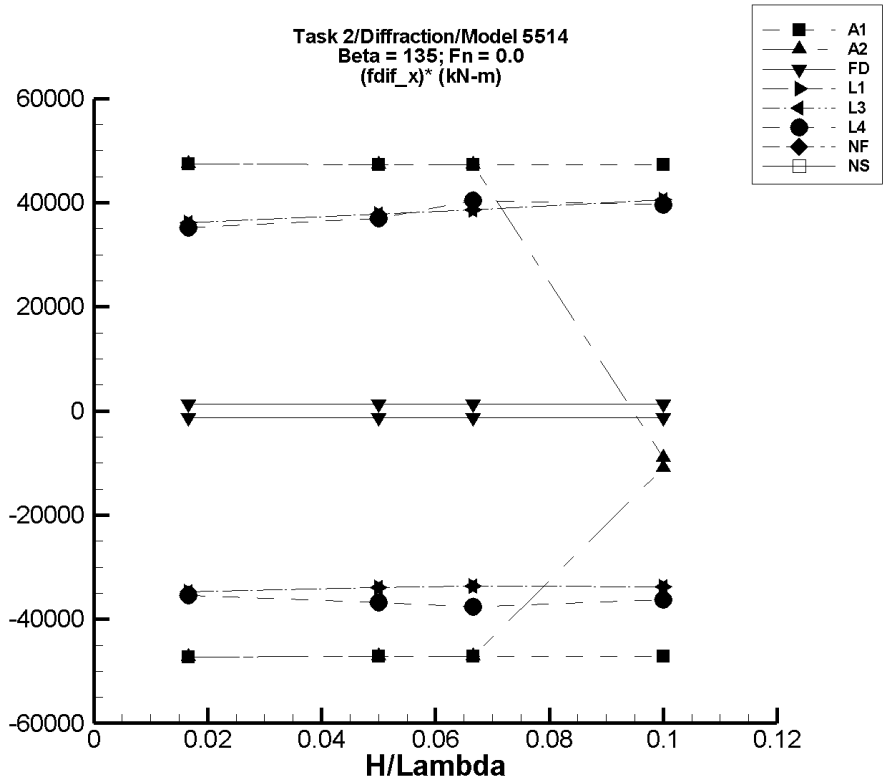

Figure R–176. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1401. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.04	-800.	800.	-791.	790.	-4.73E+04	4.75E+04
1/20	-6.10	-2.39E+03	2.39E+03	-2.36E+03	2.36E+03	-4.72E+04	4.74E+04
1/15	-8.12	-3.18E+03	3.19E+03	-3.15E+03	3.15E+03	-4.71E+04	4.73E+04
1/10	-12.2	-4.78E+03	4.79E+03	-4.73E+03	4.72E+03	-4.72E+04	4.74E+04

Table R–1402. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.04	-800.	800.	-791.	790.	-4.73E+04	4.75E+04
1/20	-6.10	-2.39E+03	2.39E+03	-2.36E+03	2.36E+03	-4.72E+04	4.74E+04
1/15	-8.12	-3.18E+03	3.19E+03	-3.15E+03	3.15E+03	-4.71E+04	4.73E+04
1/10	1.02E+03	-81.5	113.	-81.5	113.	-1.10E+04	-9.04E+03

Table R–1403. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	6.24E-04	-22.6	22.5	-22.3	22.3	-1.34E+03	1.34E+03
1/20	1.87E-03	-67.7	67.6	-67.0	66.9	-1.34E+03	1.34E+03
1/15	2.50E-03	-90.2	90.2	-89.3	89.2	-1.34E+03	1.34E+03
1/10	3.74E-03	-135.	135.	-134.	134.	-1.34E+03	1.34E+03

Table R–1404. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-1.22	-582.	605.	-580.	602.	-3.47E+04	3.62E+04
1/20	-9.54	-1.71E+03	1.89E+03	-1.70E+03	1.88E+03	-3.39E+04	3.78E+04
1/15	-16.6	-2.27E+03	2.58E+03	-2.26E+03	2.56E+03	-3.37E+04	3.87E+04
1/10	-36.7	-3.42E+03	4.04E+03	-3.41E+03	4.02E+03	-3.37E+04	4.05E+04

Table R–1405. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-1.22	-582.	605.	-580.	602.	-3.47E+04	3.62E+04
1/20	-9.54	-1.71E+03	1.89E+03	-1.70E+03	1.88E+03	-3.39E+04	3.78E+04
1/15	-16.6	-2.27E+03	2.58E+03	-2.26E+03	2.56E+03	-3.37E+04	3.87E+04
1/10	-36.7	-3.42E+03	4.04E+03	-3.41E+03	4.02E+03	-3.37E+04	4.05E+04

Table R–1406. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-21.6	-616.	570.	-612.	565.	-3.54E+04	3.52E+04
1/20	-239.	-2.09E+03	1.64E+03	-2.08E+03	1.61E+03	-3.68E+04	3.70E+04
1/15	-449.	-2.98E+03	2.32E+03	-2.96E+03	2.25E+03	-3.77E+04	4.05E+04
1/10	-889.	-4.54E+03	3.53E+03	-4.51E+03	3.07E+03	-3.62E+04	3.96E+04

Table R–1407. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1408. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

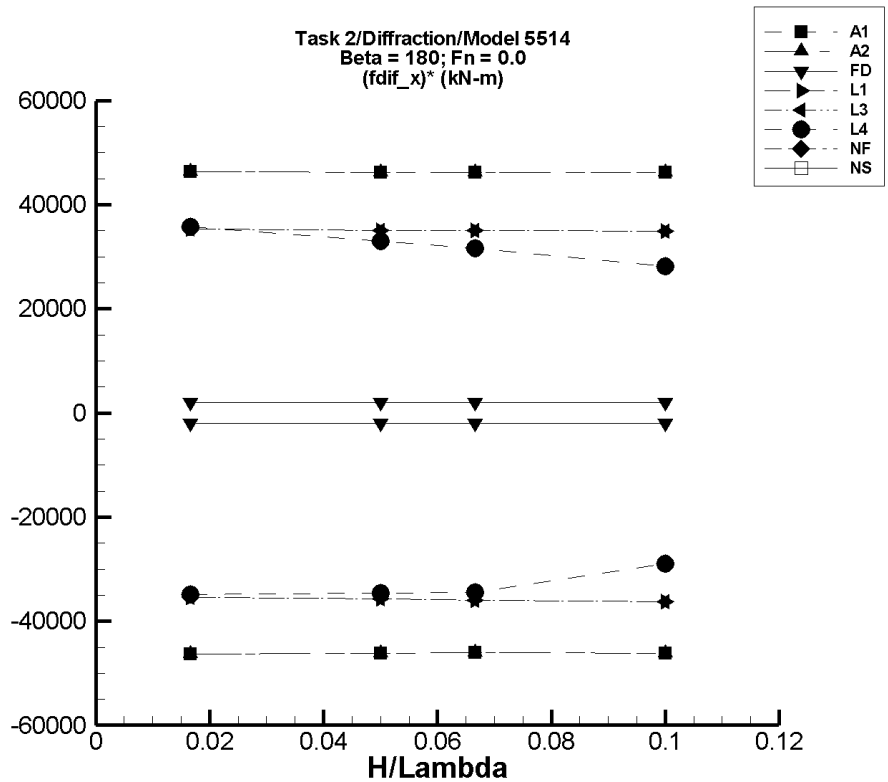

Figure R–177. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1409. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-1.57	-781.	782.	-772.	772.	-4.62E+04	4.64E+04
1/20	-4.70	-2.34E+03	2.34E+03	-2.31E+03	2.31E+03	-4.61E+04	4.63E+04
1/15	-6.25	-3.11E+03	3.12E+03	-3.08E+03	3.07E+03	-4.60E+04	4.62E+04
1/10	-9.39	-4.67E+03	4.68E+03	-4.62E+03	4.62E+03	-4.61E+04	4.63E+04

Table R–1410. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-1.57	-781.	782.	-772.	772.	-4.62E+04	4.64E+04
1/20	-4.70	-2.34E+03	2.34E+03	-2.31E+03	2.31E+03	-4.61E+04	4.63E+04
1/15	-6.25	-3.11E+03	3.12E+03	-3.08E+03	3.07E+03	-4.60E+04	4.62E+04
1/10	-9.39	-4.67E+03	4.68E+03	-4.62E+03	4.62E+03	-4.61E+04	4.63E+04

Table R–1411. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-1.16E-03	-33.8	33.8	-33.4	33.4	-2.00E+03	2.00E+03
1/20	-3.48E-03	-101.	101.	-100.	100.	-2.00E+03	2.00E+03
1/15	-4.65E-03	-135.	135.	-134.	134.	-2.00E+03	2.00E+03
1/10	-6.95E-03	-203.	203.	-200.	200.	-2.00E+03	2.00E+03

Table R–1412. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	7.01	-586.	598.	-583.	596.	-3.54E+04	3.53E+04
1/20	64.8	-1.73E+03	1.83E+03	-1.72E+03	1.82E+03	-3.57E+04	3.51E+04
1/15	116.	-2.29E+03	2.46E+03	-2.28E+03	2.45E+03	-3.59E+04	3.50E+04
1/10	261.	-3.38E+03	3.76E+03	-3.37E+03	3.75E+03	-3.63E+04	3.49E+04

Table R–1413. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	7.01	-586.	598.	-583.	596.	-3.54E+04	3.53E+04
1/20	64.8	-1.73E+03	1.83E+03	-1.72E+03	1.82E+03	-3.57E+04	3.51E+04
1/15	116.	-2.29E+03	2.46E+03	-2.28E+03	2.45E+03	-3.59E+04	3.50E+04
1/10	261.	-3.38E+03	3.76E+03	-3.37E+03	3.75E+03	-3.63E+04	3.49E+04

Table R–1414. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-19.5	-605.	580.	-601.	577.	-3.49E+04	3.58E+04
1/20	-198.	-1.96E+03	1.50E+03	-1.93E+03	1.45E+03	-3.46E+04	3.29E+04
1/15	-357.	-2.69E+03	1.77E+03	-2.66E+03	1.75E+03	-3.45E+04	3.16E+04
1/10	-565.	-3.55E+03	3.40E+03	-3.46E+03	2.26E+03	-2.90E+04	2.82E+04

Table R–1415. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1416. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

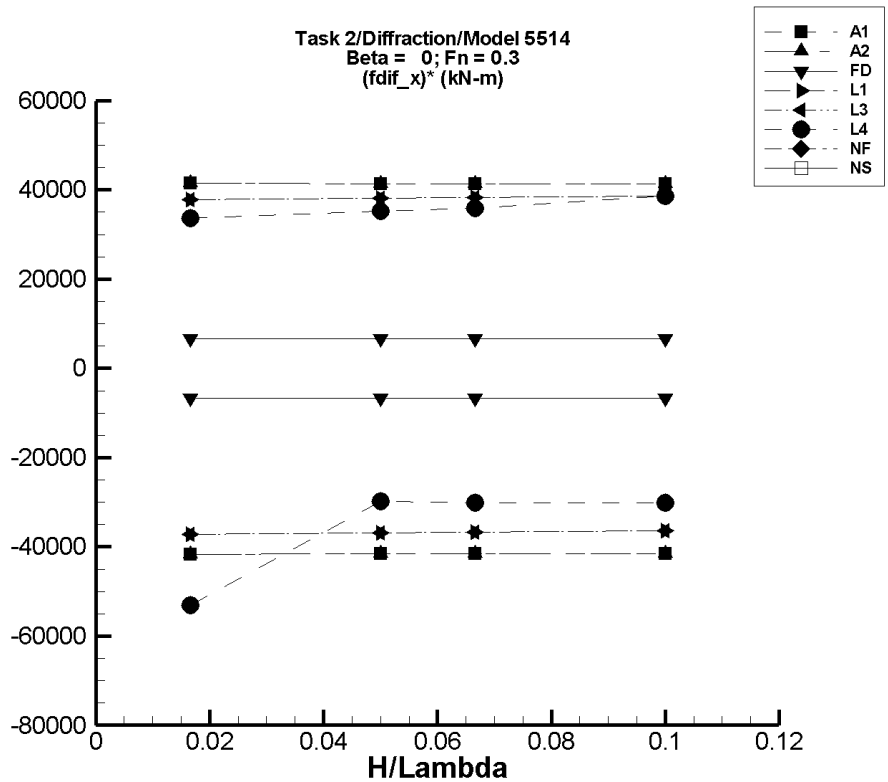

Figure R–178. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–1417. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.167	-700.	692.	-696.	692.	-4.17E+04	4.15E+04
1/20	-0.500	-2.09E+03	2.07E+03	-2.08E+03	2.07E+03	-4.16E+04	4.14E+04
1/15	-0.666	-2.79E+03	2.76E+03	-2.77E+03	2.76E+03	-4.15E+04	4.13E+04
1/10	-1.00	-4.19E+03	4.14E+03	-4.16E+03	4.14E+03	-4.16E+04	4.14E+04

Table R–1418. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.167	-700.	692.	-696.	692.	-4.17E+04	4.15E+04
1/20	-0.500	-2.09E+03	2.07E+03	-2.08E+03	2.07E+03	-4.16E+04	4.14E+04
1/15	-0.666	-2.79E+03	2.76E+03	-2.77E+03	2.76E+03	-4.15E+04	4.13E+04
1/10	-1.00	-4.19E+03	4.14E+03	-4.16E+03	4.14E+03	-4.16E+04	4.14E+04

Table R–1419. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	0.247	-112.	112.	-112.	112.	-6.72E+03	6.69E+03
1/20	0.742	-335.	335.	-335.	335.	-6.72E+03	6.69E+03
1/15	0.989	-447.	447.	-447.	447.	-6.72E+03	6.69E+03
1/10	1.48	-671.	671.	-670.	670.	-6.72E+03	6.69E+03

Table R–1420. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_x^{\text{dif}} \rangle$	Unfiltered F_x^{dif}		Filtered F_x^{dif}		Filtered $\left(F_x^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-320.	-941.	309.	-941.	309.	-3.73E+04	3.77E+04
1/20	-217.	-2.06E+03	1.69E+03	-2.06E+03	1.69E+03	-3.69E+04	3.81E+04
1/15	-126.	-2.58E+03	2.42E+03	-2.58E+03	2.42E+03	-3.68E+04	3.82E+04
1/10	134.	-3.51E+03	3.99E+03	-3.51E+03	3.99E+03	-3.64E+04	3.86E+04

Table R–1421. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle F_x^{\text{dif}} \rangle$	Unfiltered F_x^{dif}		Filtered F_x^{dif}		Filtered $\left(F_x^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-320.	-941.	309.	-941.	309.	-3.73E+04	3.77E+04
1/20	-217.	-2.06E+03	1.69E+03	-2.06E+03	1.69E+03	-3.69E+04	3.81E+04
1/15	-126.	-2.58E+03	2.42E+03	-2.58E+03	2.42E+03	-3.68E+04	3.82E+04
1/10	135.	-3.51E+03	3.99E+03	-3.51E+03	3.99E+03	-3.64E+04	3.86E+04

Table R–1422. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle F_x^{\text{dif}} \rangle$	Unfiltered F_x^{dif}		Filtered F_x^{dif}		Filtered $\left(F_x^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-324.	-1.23E+03	345.	-1.21E+03	236.	-5.32E+04	3.36E+04
1/20	-314.	-1.95E+03	1.55E+03	-1.81E+03	1.45E+03	-2.99E+04	3.53E+04
1/15	-288.	-2.53E+03	2.24E+03	-2.29E+03	2.10E+03	-3.01E+04	3.58E+04
1/10	82.7	-3.60E+03	4.07E+03	-2.93E+03	3.94E+03	-3.01E+04	3.86E+04

Table R–1423. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

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

Table R–1424. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

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

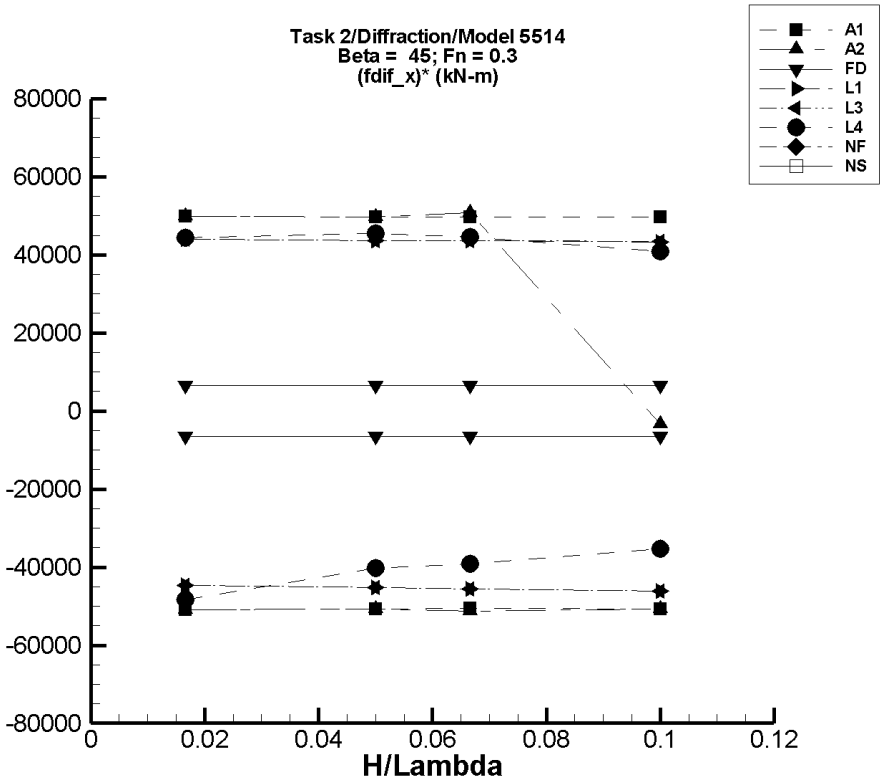

Figure R–179. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1425. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	5.18	-845.	838.	-842.	835.	-5.08E+04	4.98E+04
1/20	15.5	-2.53E+03	2.51E+03	-2.52E+03	2.50E+03	-5.07E+04	4.97E+04
1/15	20.7	-3.36E+03	3.34E+03	-3.35E+03	3.33E+03	-5.06E+04	4.96E+04
1/10	31.0	-5.05E+03	5.01E+03	-5.04E+03	5.00E+03	-5.07E+04	4.97E+04

Table R–1426. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	5.18	-845.	838.	-842.	835.	-5.08E+04	4.98E+04
1/20	15.5	-2.53E+03	2.51E+03	-2.52E+03	2.50E+03	-5.07E+04	4.97E+04
1/15	-11.3	-3.43E+03	3.39E+03	-3.42E+03	3.38E+03	-5.12E+04	5.08E+04
1/10	4.50E+03	-586.	4.12E+03	-572.	4.16E+03	-5.07E+04	-3.33E+03

Table R–1427. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.128	-110.	110.	-110.	110.	-6.57E+03	6.58E+03
1/20	-0.385	-330.	330.	-329.	329.	-6.57E+03	6.58E+03
1/15	-0.514	-440.	440.	-438.	438.	-6.57E+03	6.58E+03
1/10	-0.771	-659.	659.	-658.	658.	-6.57E+03	6.58E+03

Table R–1428. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-327.	-1.07E+03	408.	-1.07E+03	407.	-4.46E+04	4.40E+04
1/20	-285.	-2.55E+03	1.90E+03	-2.54E+03	1.90E+03	-4.52E+04	4.37E+04
1/15	-248.	-3.28E+03	2.66E+03	-3.28E+03	2.66E+03	-4.55E+04	4.35E+04
1/10	-143.	-4.77E+03	4.20E+03	-4.76E+03	4.19E+03	-4.62E+04	4.33E+04

Table R–1429. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-327.	-1.07E+03	408.	-1.07E+03	407.	-4.46E+04	4.40E+04
1/20	-285.	-2.55E+03	1.90E+03	-2.54E+03	1.90E+03	-4.52E+04	4.37E+04
1/15	-248.	-3.28E+03	2.66E+03	-3.28E+03	2.66E+03	-4.55E+04	4.35E+04
1/10	-143.	-4.77E+03	4.20E+03	-4.76E+03	4.19E+03	-4.62E+04	4.33E+04

Table R–1430. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-331.	-1.15E+03	413.	-1.14E+03	410.	-4.84E+04	4.44E+04
1/20	-251.	-2.31E+03	2.03E+03	-2.26E+03	2.02E+03	-4.02E+04	4.54E+04
1/15	-144.	-2.90E+03	2.85E+03	-2.75E+03	2.83E+03	-3.91E+04	4.46E+04
1/10	285.	-3.49E+03	4.45E+03	-3.24E+03	4.38E+03	-3.52E+04	4.10E+04

Table R–1431. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1432. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

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

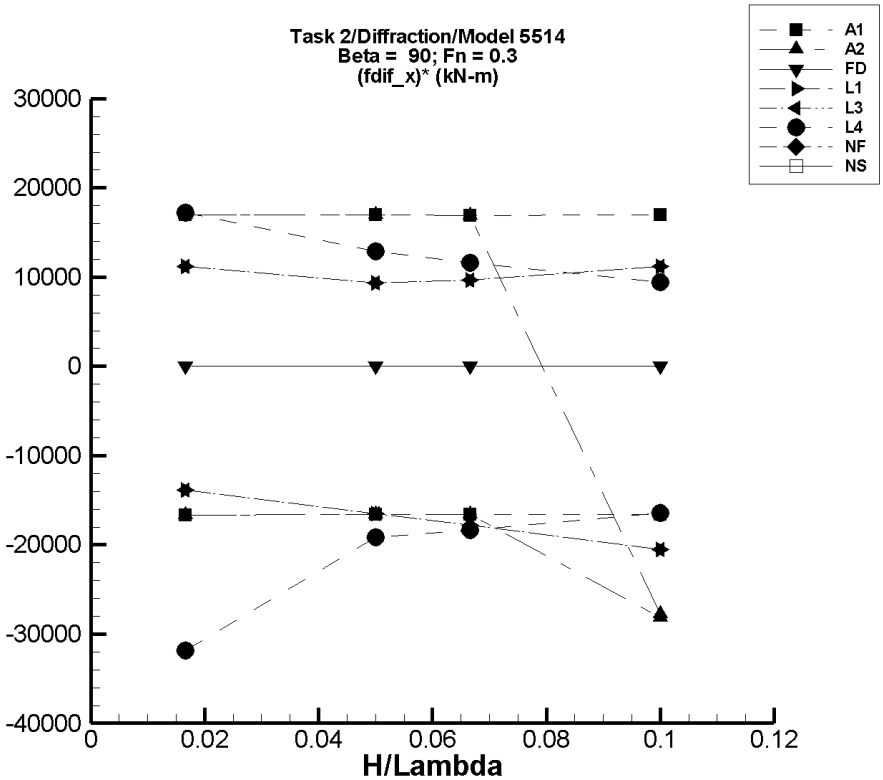

Figure R–180. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1433. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	0.572	-282.	287.	-277.	284.	-1.66E+04	1.70E+04
1/20	1.71	-843.	859.	-828.	850.	-1.66E+04	1.70E+04
1/15	2.28	-1.12E+03	1.14E+03	-1.10E+03	1.13E+03	-1.66E+04	1.69E+04
1/10	3.42	-1.69E+03	1.72E+03	-1.66E+03	1.70E+03	-1.66E+04	1.70E+04

Table R–1434. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	0.572	-282.	287.	-277.	284.	-1.66E+04	1.70E+04
1/20	1.71	-843.	859.	-828.	850.	-1.66E+04	1.70E+04
1/15	2.28	-1.12E+03	1.14E+03	-1.10E+03	1.13E+03	-1.66E+04	1.69E+04
1/10	1.09E+03	-1.73E+03	-1.69E+03	-1.73E+03	-1.69E+03	-2.82E+04	-2.77E+04

Table R–1435. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	1.84E-10	-8.14E-06	8.14E-06	-8.04E-06	8.05E-06	-4.83E-04	4.83E-04
1/20	5.55E-10	-2.44E-05	2.44E-05	-2.41E-05	2.41E-05	-4.83E-04	4.83E-04
1/15	7.38E-10	-3.26E-05	3.26E-05	-3.22E-05	3.22E-05	-4.83E-04	4.83E-04
1/10	1.11E-09	-4.88E-05	4.88E-05	-4.83E-05	4.83E-05	-4.83E-04	4.83E-04

Table R–1436. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Max. (kN)	Filtered F_x^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-333.	-565.	-146.	-564.	-146.	-1.39E+04	1.12E+04
1/20	-343.	-1.17E+03	129.	-1.17E+03	127.	-1.65E+04	9.39E+03
1/15	-351.	-1.55E+03	297.	-1.54E+03	293.	-1.78E+04	9.65E+03
1/10	-373.	-2.44E+03	759.	-2.42E+03	747.	-2.05E+04	1.12E+04

Table R–1437. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Max. (kN)	Filtered F_x^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-333.	-565.	-146.	-564.	-147.	-1.38E+04	1.12E+04
1/20	-343.	-1.17E+03	128.	-1.17E+03	127.	-1.65E+04	9.39E+03
1/15	-351.	-1.55E+03	297.	-1.54E+03	293.	-1.78E+04	9.65E+03
1/10	-374.	-2.44E+03	759.	-2.42E+03	747.	-2.05E+04	1.12E+04

Table R–1438. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Max. (kN)	Filtered F_x^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-359.	-900.	-59.1	-890.	-72.7	-3.18E+04	1.72E+04
1/20	-581.	-1.58E+03	134.	-1.54E+03	62.5	-1.91E+04	1.29E+04
1/15	-692.	-1.94E+03	215.	-1.92E+03	79.6	-1.84E+04	1.16E+04
1/10	-654.	-2.67E+03	466.	-2.30E+03	286.	-1.64E+04	9.40E+03

Table R–1439. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1440. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

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

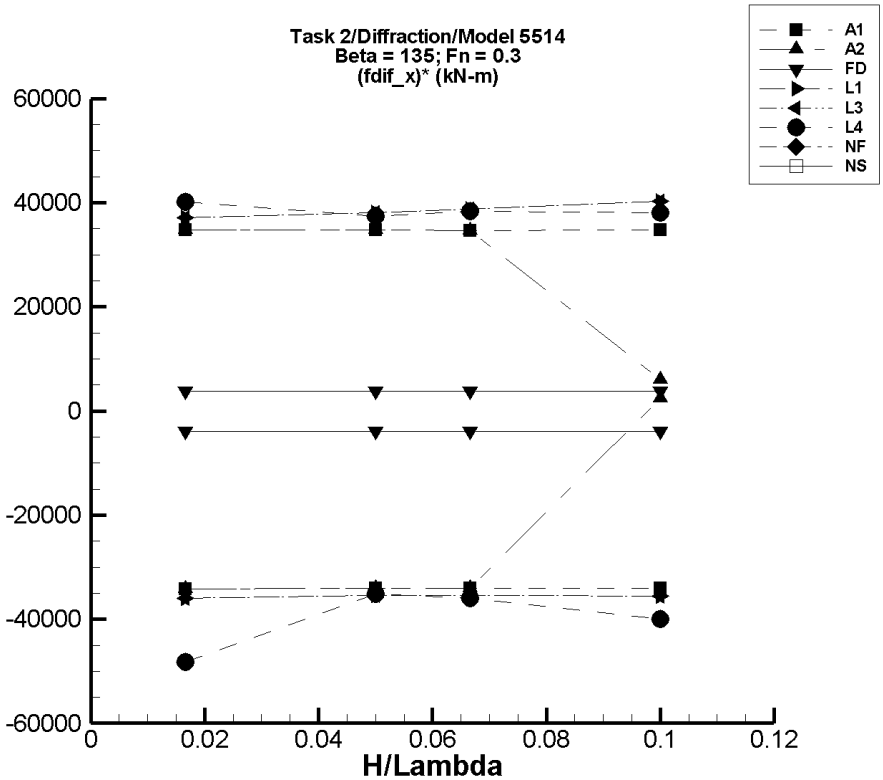

Figure R–181. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1441. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.84	-587.	591.	-572.	578.	-3.42E+04	3.48E+04
1/20	-8.51	-1.76E+03	1.77E+03	-1.71E+03	1.73E+03	-3.41E+04	3.47E+04
1/15	-11.3	-2.34E+03	2.35E+03	-2.28E+03	2.30E+03	-3.40E+04	3.47E+04
1/10	-17.0	-3.51E+03	3.54E+03	-3.42E+03	3.46E+03	-3.41E+04	3.47E+04

Table R–1442. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.84	-587.	591.	-572.	578.	-3.42E+04	3.48E+04
1/20	-8.51	-1.76E+03	1.77E+03	-1.71E+03	1.73E+03	-3.41E+04	3.47E+04
1/15	-11.3	-2.34E+03	2.35E+03	-2.28E+03	2.30E+03	-3.40E+04	3.47E+04
1/10	-1.01E+03	-759.	-411.	-759.	-411.	2.50E+03	5.98E+03

Table R–1443. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	4.62E-02	-66.2	66.3	-64.5	64.6	-3.87E+03	3.87E+03
1/20	0.139	-199.	199.	-194.	194.	-3.87E+03	3.87E+03
1/15	0.185	-265.	265.	-258.	258.	-3.87E+03	3.87E+03
1/10	0.277	-397.	398.	-387.	387.	-3.87E+03	3.87E+03

Table R–1444. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-326.	-930.	296.	-924.	294.	-3.59E+04	3.72E+04
1/20	-277.	-2.07E+03	1.65E+03	-2.05E+03	1.63E+03	-3.55E+04	3.81E+04
1/15	-234.	-2.61E+03	2.38E+03	-2.59E+03	2.35E+03	-3.54E+04	3.88E+04
1/10	-110.	-3.70E+03	3.96E+03	-3.67E+03	3.91E+03	-3.56E+04	4.02E+04

Table R–1445. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-326.	-930.	296.	-925.	294.	-3.59E+04	3.72E+04
1/20	-277.	-2.07E+03	1.65E+03	-2.05E+03	1.63E+03	-3.55E+04	3.81E+04
1/15	-234.	-2.61E+03	2.38E+03	-2.59E+03	2.35E+03	-3.54E+04	3.88E+04
1/10	-110.	-3.70E+03	3.96E+03	-3.67E+03	3.91E+03	-3.56E+04	4.02E+04

Table R–1446. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-384.	-1.24E+03	308.	-1.19E+03	285.	-4.82E+04	4.01E+04
1/20	-686.	-2.45E+03	1.25E+03	-2.44E+03	1.19E+03	-3.51E+04	3.75E+04
1/15	-867.	-3.30E+03	1.78E+03	-3.27E+03	1.69E+03	-3.60E+04	3.84E+04
1/10	-961.	-5.14E+03	3.43E+03	-4.96E+03	2.84E+03	-4.00E+04	3.80E+04

Table R–1447. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1448. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

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

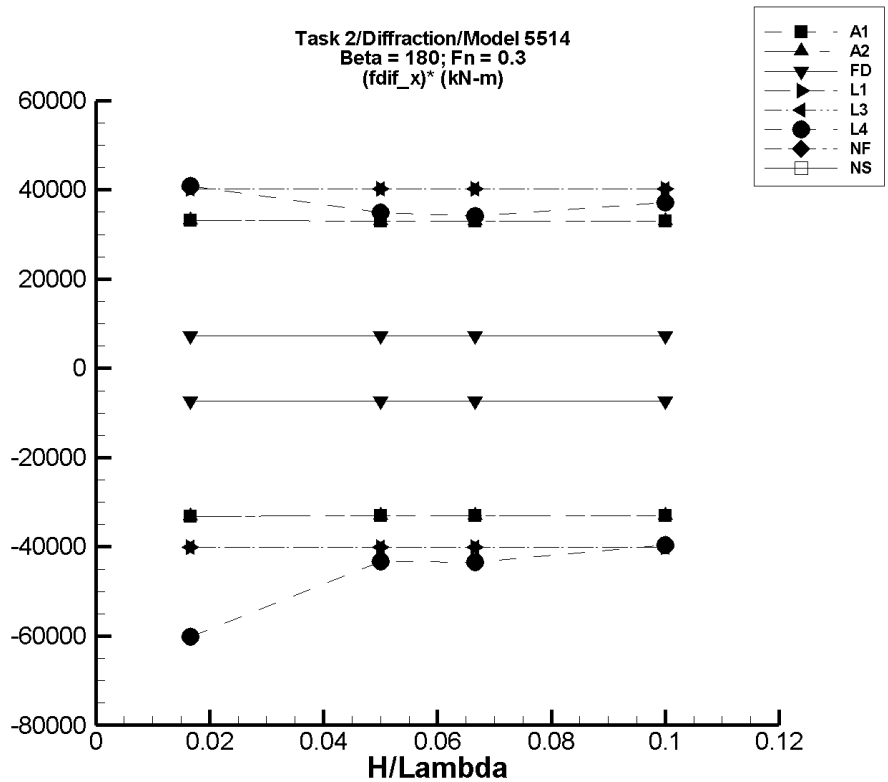

Figure R–182. Minimum and Maximum of $(F_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1449. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	3.79	-572.	575.	-549.	556.	-3.31E+04	3.31E+04
1/20	11.3	-1.71E+03	1.72E+03	-1.64E+03	1.66E+03	-3.30E+04	3.30E+04
1/15	15.1	-2.28E+03	2.29E+03	-2.18E+03	2.22E+03	-3.30E+04	3.30E+04
1/10	22.7	-3.42E+03	3.44E+03	-3.28E+03	3.33E+03	-3.30E+04	3.30E+04

Table R–1450. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	3.79	-572.	575.	-549.	556.	-3.31E+04	3.31E+04
1/20	11.3	-1.71E+03	1.72E+03	-1.64E+03	1.66E+03	-3.30E+04	3.30E+04
1/15	15.1	-2.28E+03	2.29E+03	-2.18E+03	2.22E+03	-3.30E+04	3.30E+04
1/10	22.7	-3.42E+03	3.44E+03	-3.28E+03	3.33E+03	-3.30E+04	3.30E+04

Table R–1451. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.401	-126.	126.	-122.	122.	-7.31E+03	7.34E+03
1/20	-1.20	-378.	379.	-367.	366.	-7.31E+03	7.34E+03
1/15	-1.60	-505.	505.	-489.	488.	-7.31E+03	7.34E+03
1/10	-2.40	-757.	757.	-733.	732.	-7.31E+03	7.34E+03

Table R–1452. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-317.	-994.	360.	-987.	352.	-4.02E+04	4.02E+04
1/20	-205.	-2.23E+03	1.83E+03	-2.21E+03	1.81E+03	-4.01E+04	4.02E+04
1/15	-106.	-2.81E+03	2.61E+03	-2.78E+03	2.58E+03	-4.01E+04	4.02E+04
1/10	176.	-3.87E+03	4.26E+03	-3.83E+03	4.21E+03	-4.00E+04	4.03E+04

Table R–1453. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-317.	-994.	360.	-987.	352.	-4.02E+04	4.02E+04
1/20	-205.	-2.23E+03	1.83E+03	-2.21E+03	1.81E+03	-4.01E+04	4.02E+04
1/15	-106.	-2.81E+03	2.61E+03	-2.78E+03	2.58E+03	-4.01E+04	4.02E+04
1/10	176.	-3.87E+03	4.26E+03	-3.83E+03	4.21E+03	-4.00E+04	4.03E+04

Table R–1454. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_x^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_x^{dif} Min. (kN)	Unfiltered F_x^{dif} Max. (kN)	Filtered F_x^{dif} Min. (kN)	Filtered F_x^{dif} Max. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_x^{\text{dif}}\right)^*$ Max. (kN)
1/60	-393.	-1.44E+03	321.	-1.39E+03	288.	-6.01E+04	4.09E+04
1/20	-645.	-2.96E+03	1.19E+03	-2.81E+03	1.10E+03	-4.33E+04	3.50E+04
1/15	-799.	-3.93E+03	1.52E+03	-3.69E+03	1.47E+03	-4.34E+04	3.41E+04
1/10	-185.	-4.40E+03	4.62E+03	-4.15E+03	3.53E+03	-3.97E+04	3.71E+04

Table R–1455. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1456. Minimum and Maximum of F_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

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

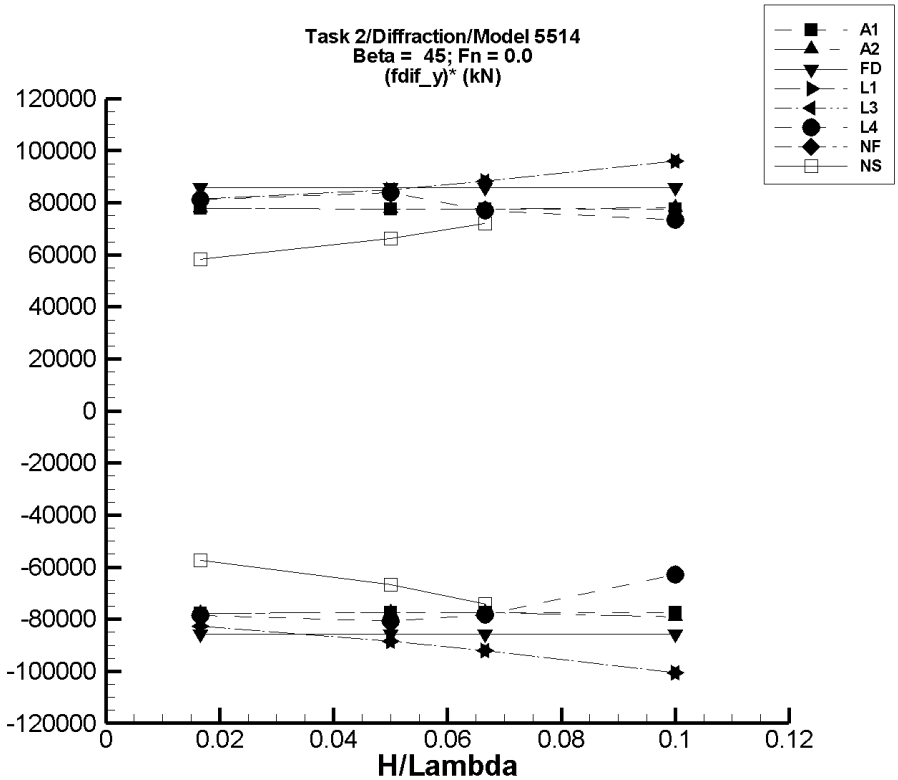

Figure R–183. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1457. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.57	-1.31E+03	1.31E+03	-1.30E+03	1.30E+03	-7.77E+04	7.78E+04
1/20	-4.69	-3.92E+03	3.92E+03	-3.88E+03	3.88E+03	-7.74E+04	7.76E+04
1/15	-6.24	-5.22E+03	5.22E+03	-5.16E+03	5.16E+03	-7.73E+04	7.75E+04
1/10	-9.38	-7.84E+03	7.85E+03	-7.75E+03	7.75E+03	-7.74E+04	7.76E+04

Table R–1458. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.57	-1.31E+03	1.31E+03	-1.30E+03	1.30E+03	-7.77E+04	7.78E+04
1/20	-4.69	-3.92E+03	3.92E+03	-3.88E+03	3.88E+03	-7.74E+04	7.76E+04
1/15	-6.24	-5.22E+03	5.22E+03	-5.16E+03	5.16E+03	-7.73E+04	7.75E+04
1/10	-18.8	-8.03E+03	7.91E+03	-7.93E+03	7.80E+03	-7.92E+04	7.82E+04

Table R–1459. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-4.83E-02	-1.44E+03	1.44E+03	-1.43E+03	1.43E+03	-8.57E+04	8.57E+04
1/20	-0.144	-4.33E+03	4.33E+03	-4.29E+03	4.28E+03	-8.57E+04	8.57E+04
1/15	-0.193	-5.78E+03	5.78E+03	-5.71E+03	5.71E+03	-8.57E+04	8.57E+04
1/10	-0.289	-8.67E+03	8.66E+03	-8.57E+03	8.57E+03	-8.57E+04	8.57E+04

Table R–1460. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-138.	-1.52E+03	1.22E+03	-1.52E+03	1.22E+03	-8.27E+04	8.14E+04
1/20	-1.25E+03	-5.69E+03	3.03E+03	-5.66E+03	3.01E+03	-8.83E+04	8.50E+04
1/15	-2.21E+03	-8.39E+03	3.70E+03	-8.35E+03	3.67E+03	-9.21E+04	8.82E+04
1/10	-4.98E+03	-1.51E+04	4.68E+03	-1.50E+04	4.61E+03	-1.01E+05	9.59E+04

Table R–1461. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-138.	-1.52E+03	1.22E+03	-1.52E+03	1.22E+03	-8.27E+04	8.14E+04
1/20	-1.25E+03	-5.69E+03	3.03E+03	-5.66E+03	3.01E+03	-8.83E+04	8.50E+04
1/15	-2.21E+03	-8.39E+03	3.70E+03	-8.35E+03	3.67E+03	-9.21E+04	8.82E+04
1/10	-4.98E+03	-1.51E+04	4.68E+03	-1.50E+04	4.61E+03	-1.01E+05	9.59E+04

Table R–1462. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	98.4	-1.27E+03	1.50E+03	-1.21E+03	1.45E+03	-7.87E+04	8.11E+04
1/20	811.	-3.46E+03	5.45E+03	-3.23E+03	5.00E+03	-8.08E+04	8.38E+04
1/15	1.52E+03	-3.82E+03	7.45E+03	-3.70E+03	6.65E+03	-7.83E+04	7.69E+04
1/10	4.29E+03	-1.93E+04	1.69E+04	-2.00E+03	1.16E+04	-6.28E+04	7.33E+04

Table R–1463. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1464. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	149.	-821.	1.13E+03	-809.	1.12E+03	-5.75E+04	5.84E+04
1/20	1.25E+03	-2.12E+03	4.63E+03	-2.08E+03	4.56E+03	-6.66E+04	6.63E+04
1/15	2.29E+03	-2.76E+03	7.15E+03	-2.66E+03	7.10E+03	-7.43E+04	7.21E+04
1/10	—	—	—	—	—	—	—

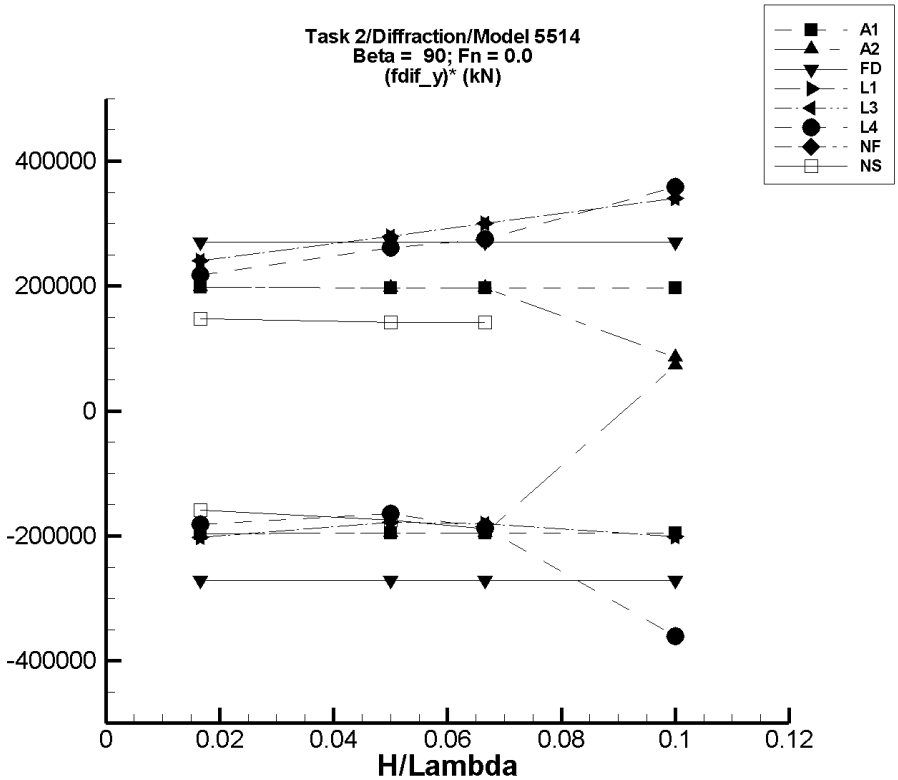

Figure R–184. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1465. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.38	-3.32E+03	3.34E+03	-3.28E+03	3.29E+03	-1.97E+05	1.98E+05
1/20	-7.13	-9.92E+03	9.98E+03	-9.81E+03	9.85E+03	-1.96E+05	1.97E+05
1/15	-9.49	-1.32E+04	1.33E+04	-1.31E+04	1.31E+04	-1.96E+05	1.97E+05
1/10	-14.3	-1.98E+04	2.00E+04	-1.96E+04	1.97E+04	-1.96E+05	1.97E+05

Table R–1466. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.38	-3.32E+03	3.34E+03	-3.28E+03	3.29E+03	-1.97E+05	1.98E+05
1/20	-7.13	-9.92E+03	9.98E+03	-9.81E+03	9.85E+03	-1.96E+05	1.97E+05
1/15	-9.49	-1.32E+04	1.33E+04	-1.31E+04	1.31E+04	-1.96E+05	1.97E+05
1/10	-815.	6.45E+03	7.76E+03	6.45E+03	7.76E+03	7.26E+04	8.57E+04

Table R–1467. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-7.57E-02	-4.56E+03	4.56E+03	-4.51E+03	4.51E+03	-2.71E+05	2.71E+05
1/20	-0.227	-1.37E+04	1.37E+04	-1.35E+04	1.35E+04	-2.71E+05	2.71E+05
1/15	-0.302	-1.82E+04	1.83E+04	-1.80E+04	1.81E+04	-2.71E+05	2.71E+05
1/10	-0.454	-2.74E+04	2.74E+04	-2.71E+04	2.71E+04	-2.71E+05	2.71E+05

Table R–1468. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-300.	-3.67E+03	3.72E+03	-3.66E+03	3.70E+03	-2.02E+05	2.40E+05
1/20	-2.69E+03	-1.16E+04	1.14E+04	-1.16E+04	1.13E+04	-1.78E+05	2.80E+05
1/15	-4.79E+03	-1.69E+04	1.54E+04	-1.68E+04	1.52E+04	-1.80E+05	3.00E+05
1/10	-1.08E+04	-3.11E+04	2.36E+04	-3.09E+04	2.33E+04	-2.01E+05	3.41E+05

Table R–1469. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-300.	-3.67E+03	3.72E+03	-3.66E+03	3.70E+03	-2.02E+05	2.40E+05
1/20	-2.69E+03	-1.16E+04	1.14E+04	-1.16E+04	1.13E+04	-1.78E+05	2.80E+05
1/15	-4.79E+03	-1.69E+04	1.54E+04	-1.68E+04	1.52E+04	-1.80E+05	3.00E+05
1/10	-1.08E+04	-3.11E+04	2.36E+04	-3.09E+04	2.33E+04	-2.01E+05	3.41E+05

Table R–1470. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	179.	-3.05E+03	4.07E+03	-2.85E+03	3.81E+03	-1.82E+05	2.18E+05
1/20	1.93E+03	-6.68E+03	1.54E+04	-6.29E+03	1.50E+04	-1.64E+05	2.61E+05
1/15	3.65E+03	-9.68E+03	2.35E+04	-8.83E+03	2.20E+04	-1.87E+05	2.75E+05
1/10	9.51E+03	-1.02E+05	4.85E+04	-2.65E+04	4.53E+04	-3.60E+05	3.58E+05

Table R–1471. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1472. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	228.	-2.45E+03	2.73E+03	-2.41E+03	2.70E+03	-1.58E+05	1.48E+05
1/20	1.89E+03	-7.08E+03	9.08E+03	-6.87E+03	8.97E+03	-1.75E+05	1.42E+05
1/15	3.43E+03	-9.34E+03	1.30E+04	-9.13E+03	1.29E+04	-1.88E+05	1.41E+05
1/10	—	—	—	—	—	—	—

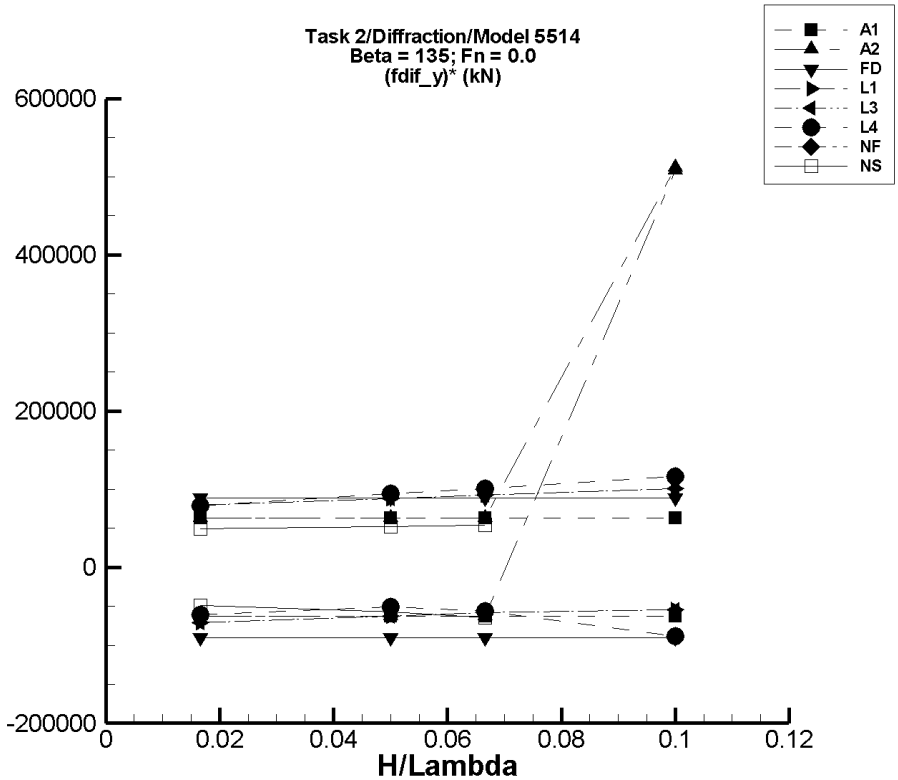

Figure R–185. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1473. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.10	-1.06E+03	1.06E+03	-1.05E+03	1.05E+03	-6.27E+04	6.28E+04
1/20	-3.29	-3.17E+03	3.16E+03	-3.13E+03	3.13E+03	-6.25E+04	6.26E+04
1/15	-4.37	-4.21E+03	4.21E+03	-4.17E+03	4.17E+03	-6.25E+04	6.26E+04
1/10	-6.57	-6.33E+03	6.32E+03	-6.26E+03	6.26E+03	-6.25E+04	6.26E+04

Table R–1474. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.10	-1.06E+03	1.06E+03	-1.05E+03	1.05E+03	-6.27E+04	6.28E+04
1/20	-3.29	-3.17E+03	3.16E+03	-3.13E+03	3.13E+03	-6.25E+04	6.26E+04
1/15	-4.37	-4.21E+03	4.21E+03	-4.17E+03	4.17E+03	-6.25E+04	6.26E+04
1/10	-4.54E+04	5.40E+03	5.73E+03	5.40E+03	5.73E+03	5.08E+05	5.12E+05

Table R–1475. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	1.70E-02	-1.49E+03	1.49E+03	-1.51E+03	1.48E+03	-9.05E+04	8.86E+04
1/20	5.07E-02	-4.48E+03	4.48E+03	-4.53E+03	4.43E+03	-9.05E+04	8.86E+04
1/15	6.79E-02	-5.97E+03	5.97E+03	-6.03E+03	5.90E+03	-9.05E+04	8.86E+04
1/10	0.102	-8.96E+03	8.95E+03	-9.05E+03	8.86E+03	-9.05E+04	8.86E+04

Table R–1476. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-139.	-1.32E+03	1.18E+03	-1.32E+03	1.18E+03	-7.11E+04	7.90E+04
1/20	-1.25E+03	-4.35E+03	3.15E+03	-4.37E+03	3.13E+03	-6.24E+04	8.76E+04
1/15	-2.23E+03	-6.10E+03	3.94E+03	-6.10E+03	3.90E+03	-5.81E+04	9.19E+04
1/10	-5.01E+03	-1.05E+04	5.12E+03	-1.05E+04	5.05E+03	-5.46E+04	1.01E+05

Table R–1477. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-139.	-1.32E+03	1.18E+03	-1.32E+03	1.18E+03	-7.11E+04	7.90E+04
1/20	-1.25E+03	-4.35E+03	3.15E+03	-4.37E+03	3.13E+03	-6.24E+04	8.76E+04
1/15	-2.23E+03	-6.10E+03	3.94E+03	-6.10E+03	3.90E+03	-5.81E+04	9.19E+04
1/10	-5.01E+03	-1.05E+04	5.12E+03	-1.05E+04	5.05E+03	-5.46E+04	1.01E+05

Table R–1478. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	79.3	-990.	1.48E+03	-934.	1.39E+03	-6.08E+04	7.89E+04
1/20	756.	-2.08E+03	5.71E+03	-1.79E+03	5.47E+03	-5.09E+04	9.42E+04
1/15	1.47E+03	-2.94E+03	8.49E+03	-2.31E+03	8.15E+03	-5.67E+04	1.00E+05
1/10	4.04E+03	-2.46E+04	2.17E+04	-4.80E+03	1.57E+04	-8.85E+04	1.16E+05

Table R–1479. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1480. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	160.	-666.	989.	-652.	979.	-4.87E+04	4.91E+04
1/20	1.34E+03	-1.56E+03	3.98E+03	-1.50E+03	3.92E+03	-5.69E+04	5.16E+04
1/15	2.46E+03	-1.91E+03	6.12E+03	-1.84E+03	6.04E+03	-6.45E+04	5.38E+04
1/10	—	—	—	—	—	—	—

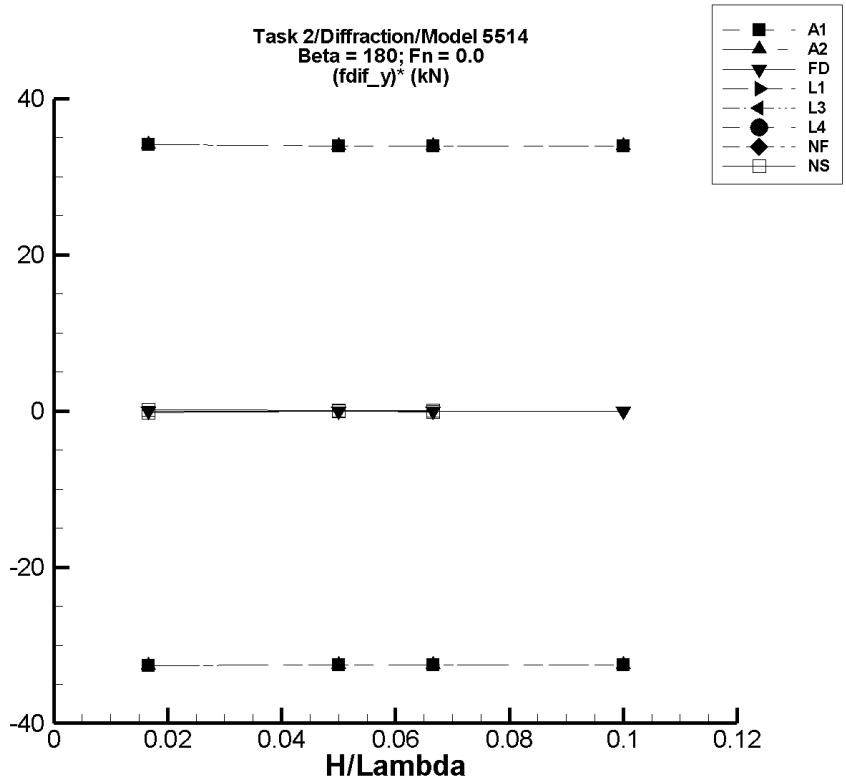

Figure R–186. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1481. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.22E-03	-0.553	0.566	-0.546	0.566	-32.6	34.1
1/20	-6.65E-03	-1.65	1.69	-1.63	1.69	-32.5	34.0
1/15	-8.86E-03	-2.20	2.26	-2.17	2.25	-32.5	33.9
1/10	-1.33E-02	-3.31	3.39	-3.27	3.38	-32.5	34.0

Table R–1482. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.22E-03	-0.553	0.566	-0.546	0.566	-32.6	34.1
1/20	-6.65E-03	-1.65	1.69	-1.63	1.69	-32.5	34.0
1/15	-8.86E-03	-2.20	2.26	-2.17	2.25	-32.5	33.9
1/10	-1.33E-02	-3.31	3.39	-3.27	3.38	-32.5	34.0

Table R–1483. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.07E-09	-5.99E-05	5.99E-05	-5.93E-05	5.93E-05	-3.56E-03	3.56E-03
1/20	-6.22E-09	-1.80E-04	1.80E-04	-1.78E-04	1.78E-04	-3.56E-03	3.56E-03
1/15	-8.26E-09	-2.40E-04	2.40E-04	-2.37E-04	2.37E-04	-3.56E-03	3.56E-03
1/10	-1.25E-08	-3.60E-04	3.60E-04	-3.56E-04	3.56E-04	-3.56E-03	3.56E-03

Table R–1484. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1485. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1486. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1487. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1488. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	4.30E-05	-0.119	0.122	-3.14E-03	3.25E-03	-0.191	0.192
1/20	-2.08E-04	-0.101	9.64E-02	-3.85E-03	4.24E-03	-7.28E-02	8.89E-02
1/15	-2.33E-04	-0.186	0.194	-6.26E-03	5.34E-03	-9.04E-02	8.36E-02
1/10	—	—	—	—	—	—	—

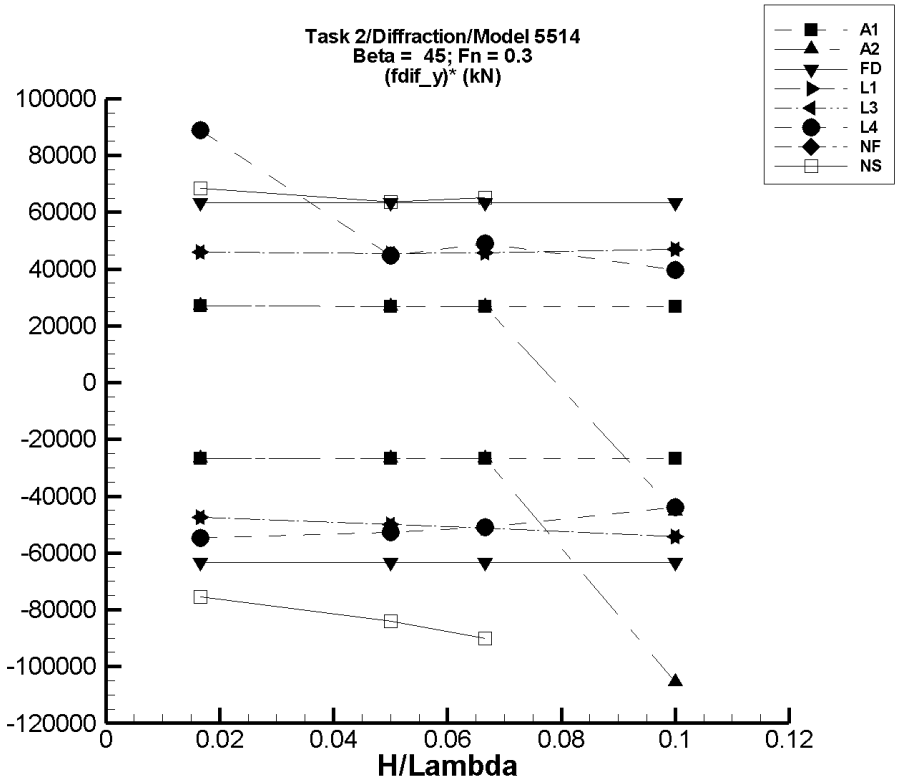

Figure R–187. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1489. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.12	-449.	449.	-447.	447.	-2.68E+04	2.69E+04
1/20	-3.36	-1.34E+03	1.34E+03	-1.34E+03	1.34E+03	-2.67E+04	2.68E+04
1/15	-4.47	-1.79E+03	1.79E+03	-1.78E+03	1.78E+03	-2.67E+04	2.68E+04
1/10	-6.71	-2.69E+03	2.69E+03	-2.68E+03	2.68E+03	-2.67E+04	2.68E+04

Table R–1490. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.12	-449.	449.	-447.	447.	-2.68E+04	2.69E+04
1/20	-3.36	-1.34E+03	1.34E+03	-1.34E+03	1.34E+03	-2.67E+04	2.68E+04
1/15	-2.89	-1.79E+03	1.79E+03	-1.78E+03	1.78E+03	-2.66E+04	2.67E+04
1/10	7.65E+03	-2.88E+03	3.14E+03	-2.90E+03	3.10E+03	-1.05E+05	-4.55E+04

Table R–1491. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-1.52	-1.06E+03	1.06E+03	-1.06E+03	1.06E+03	-6.33E+04	6.35E+04
1/20	-4.55	-3.18E+03	3.18E+03	-3.17E+03	3.17E+03	-6.33E+04	6.35E+04
1/15	-6.06	-4.24E+03	4.24E+03	-4.23E+03	4.23E+03	-6.33E+04	6.35E+04
1/10	-9.09	-6.35E+03	6.35E+03	-6.34E+03	6.34E+03	-6.33E+04	6.35E+04

Table R–1492. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-227.	-1.02E+03	537.	-1.02E+03	536.	-4.74E+04	4.58E+04
1/20	-2.05E+03	-4.54E+03	226.	-4.54E+03	224.	-4.98E+04	4.54E+04
1/15	-3.64E+03	-7.06E+03	-591.	-7.06E+03	-594.	-5.13E+04	4.57E+04
1/10	-8.19E+03	-1.36E+04	-3.48E+03	-1.36E+04	-3.49E+03	-5.43E+04	4.71E+04

Table R–1493. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-227.	-1.02E+03	537.	-1.02E+03	536.	-4.74E+04	4.58E+04
1/20	-2.05E+03	-4.54E+03	226.	-4.54E+03	224.	-4.99E+04	4.54E+04
1/15	-3.64E+03	-7.06E+03	-591.	-7.06E+03	-594.	-5.13E+04	4.57E+04
1/10	-8.19E+03	-1.36E+04	-3.48E+03	-1.36E+04	-3.49E+03	-5.43E+04	4.71E+04

Table R–1494. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	49.9	-904.	1.59E+03	-863.	1.53E+03	-5.48E+04	8.89E+04
1/20	627.	-2.08E+03	2.93E+03	-2.01E+03	2.86E+03	-5.28E+04	4.47E+04
1/15	1.24E+03	-2.37E+03	4.61E+03	-2.16E+03	4.50E+03	-5.09E+04	4.89E+04
1/10	2.75E+03	-1.95E+04	2.50E+04	-1.63E+03	6.72E+03	-4.38E+04	3.97E+04

Table R–1495. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1496. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	47.0	-1.23E+03	1.20E+03	-1.21E+03	1.19E+03	-7.56E+04	6.83E+04
1/20	419.	-3.86E+03	3.61E+03	-3.79E+03	3.60E+03	-8.42E+04	6.37E+04
1/15	738.	-5.35E+03	5.10E+03	-5.26E+03	5.08E+03	-9.00E+04	6.51E+04
1/10	—	—	—	—	—	—	—

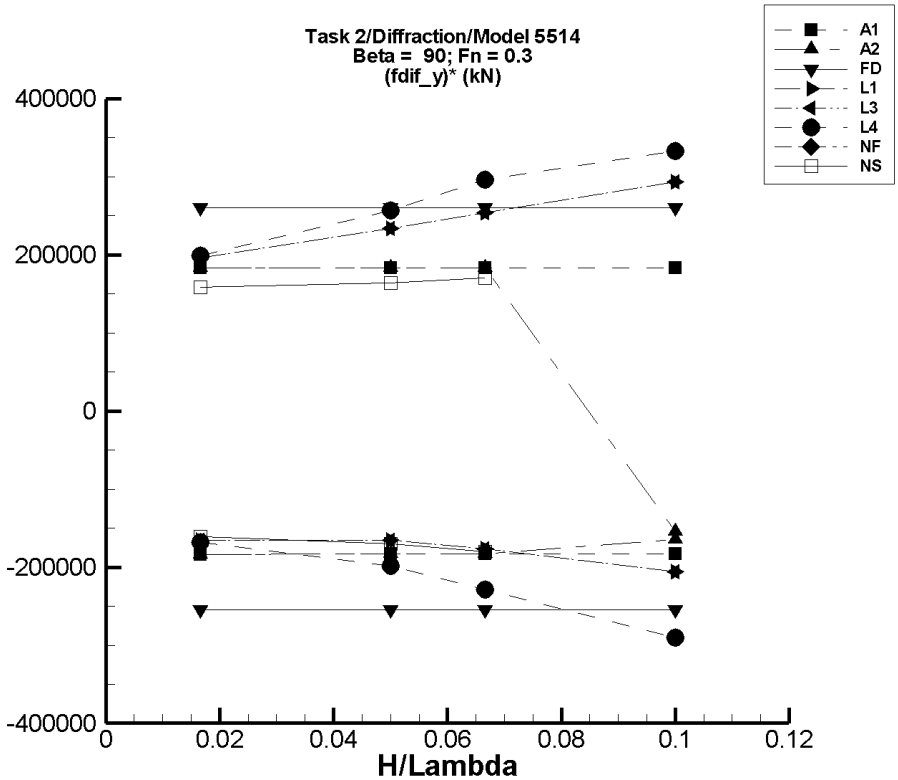

Figure R–188. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1497. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-1.60	-3.09E+03	3.10E+03	-3.06E+03	3.06E+03	-1.83E+05	1.84E+05
1/20	-4.78	-9.26E+03	9.26E+03	-9.15E+03	9.15E+03	-1.83E+05	1.83E+05
1/15	-6.36	-1.23E+04	1.23E+04	-1.22E+04	1.22E+04	-1.83E+05	1.83E+05
1/10	-9.56	-1.85E+04	1.85E+04	-1.83E+04	1.83E+04	-1.83E+05	1.83E+05

Table R–1498. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-1.60	-3.09E+03	3.10E+03	-3.06E+03	3.06E+03	-1.83E+05	1.84E+05
1/20	-4.78	-9.26E+03	9.26E+03	-9.15E+03	9.15E+03	-1.83E+05	1.83E+05
1/15	-6.36	-1.23E+04	1.23E+04	-1.22E+04	1.22E+04	-1.83E+05	1.83E+05
1/10	2.61E+04	9.70E+03	1.07E+04	9.70E+03	1.07E+04	-1.64E+05	-1.54E+05

Table R–1499. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-4.75E-02	-4.30E+03	4.30E+03	-4.25E+03	4.34E+03	-2.55E+05	2.60E+05
1/20	-0.142	-1.29E+04	1.29E+04	-1.27E+04	1.30E+04	-2.55E+05	2.60E+05
1/15	-0.190	-1.72E+04	1.72E+04	-1.70E+04	1.73E+04	-2.55E+05	2.60E+05
1/10	-0.284	-2.58E+04	2.58E+04	-2.55E+04	2.60E+04	-2.55E+05	2.60E+05

Table R–1500. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-198.	-2.96E+03	3.09E+03	-2.95E+03	3.07E+03	-1.65E+05	1.96E+05
1/20	-1.77E+03	-1.01E+04	1.00E+04	-1.00E+04	9.93E+03	-1.66E+05	2.34E+05
1/15	-3.14E+03	-1.50E+04	1.39E+04	-1.49E+04	1.38E+04	-1.76E+05	2.54E+05
1/10	-7.07E+03	-2.79E+04	2.25E+04	-2.77E+04	2.23E+04	-2.06E+05	2.93E+05

Table R–1501. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-198.	-2.96E+03	3.09E+03	-2.95E+03	3.07E+03	-1.65E+05	1.96E+05
1/20	-1.77E+03	-1.01E+04	1.00E+04	-1.00E+04	9.93E+03	-1.66E+05	2.34E+05
1/15	-3.14E+03	-1.50E+04	1.39E+04	-1.49E+04	1.38E+04	-1.76E+05	2.54E+05
1/10	-7.07E+03	-2.79E+04	2.25E+04	-2.77E+04	2.23E+04	-2.06E+05	2.93E+05

Table R–1502. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	224.	-2.63E+03	3.56E+03	-2.57E+03	3.53E+03	-1.68E+05	1.99E+05
1/20	2.00E+03	-8.10E+03	1.50E+04	-7.94E+03	1.48E+04	-1.99E+05	2.57E+05
1/15	3.58E+03	-1.20E+04	2.36E+04	-1.17E+04	2.33E+04	-2.29E+05	2.96E+05
1/10	7.41E+03	-1.01E+05	8.74E+04	-2.16E+04	4.07E+04	-2.91E+05	3.33E+05

Table R–1503. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1504. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	39.9	-2.68E+03	2.71E+03	-2.65E+03	2.68E+03	-1.61E+05	1.59E+05
1/20	416.	-8.27E+03	8.62E+03	-8.09E+03	8.60E+03	-1.70E+05	1.64E+05
1/15	988.	-1.13E+04	1.23E+04	-1.11E+04	1.24E+04	-1.81E+05	1.71E+05
1/10	—	—	—	—	—	—	—

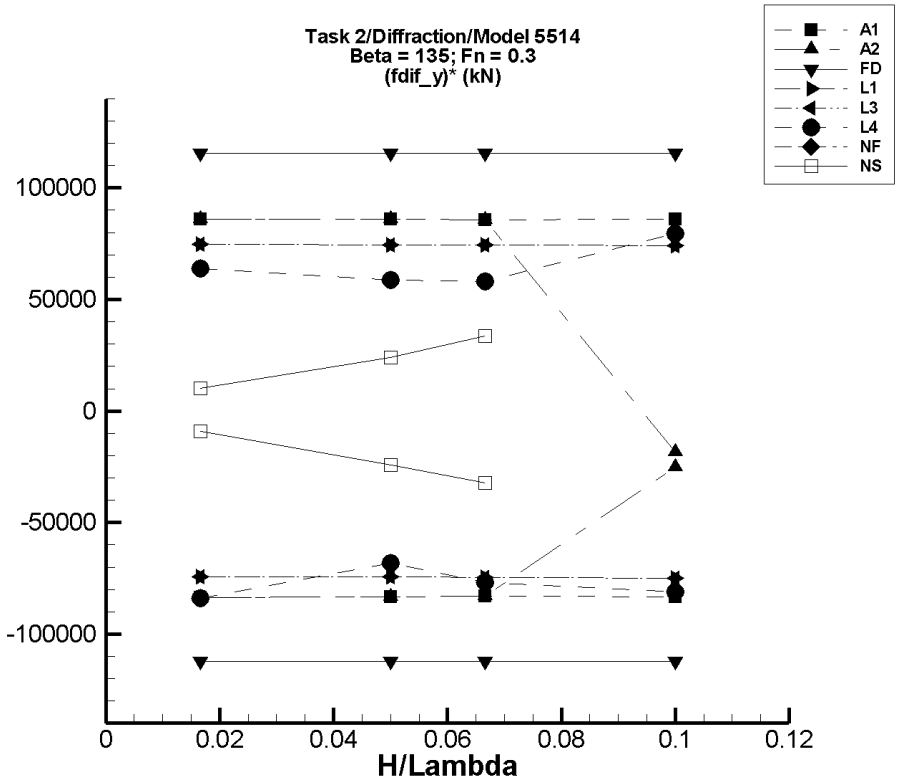

Figure R–189. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1505. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.28	-1.43E+03	1.44E+03	-1.39E+03	1.43E+03	-8.35E+04	8.61E+04
1/20	-6.83	-4.28E+03	4.30E+03	-4.17E+03	4.29E+03	-8.33E+04	8.59E+04
1/15	-9.09	-5.69E+03	5.73E+03	-5.55E+03	5.71E+03	-8.31E+04	8.57E+04
1/10	-13.7	-8.55E+03	8.61E+03	-8.34E+03	8.57E+03	-8.33E+04	8.59E+04

Table R–1506. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.28	-1.43E+03	1.44E+03	-1.39E+03	1.43E+03	-8.35E+04	8.61E+04
1/20	-6.83	-4.28E+03	4.30E+03	-4.17E+03	4.29E+03	-8.33E+04	8.59E+04
1/15	-9.09	-5.69E+03	5.73E+03	-5.55E+03	5.71E+03	-8.31E+04	8.57E+04
1/10	7.49E+03	4.96E+03	5.63E+03	4.96E+03	5.63E+03	-2.52E+04	-1.85E+04

Table R–1507. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-0.765	-1.92E+03	1.92E+03	-1.87E+03	1.92E+03	-1.12E+05	1.15E+05
1/20	-2.29	-5.76E+03	5.76E+03	-5.61E+03	5.77E+03	-1.12E+05	1.15E+05
1/15	-3.06	-7.68E+03	7.68E+03	-7.48E+03	7.69E+03	-1.12E+05	1.15E+05
1/10	-4.59	-1.15E+04	1.15E+04	-1.12E+04	1.15E+04	-1.12E+05	1.15E+05

Table R–1508. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-127.	-1.37E+03	1.12E+03	-1.36E+03	1.12E+03	-7.42E+04	7.48E+04
1/20	-1.13E+03	-4.89E+03	2.60E+03	-4.86E+03	2.59E+03	-7.45E+04	7.45E+04
1/15	-2.01E+03	-7.03E+03	2.95E+03	-6.98E+03	2.95E+03	-7.46E+04	7.44E+04
1/10	-4.52E+03	-1.21E+04	2.90E+03	-1.20E+04	2.89E+03	-7.49E+04	7.41E+04

Table R–1509. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-127.	-1.37E+03	1.12E+03	-1.36E+03	1.12E+03	-7.42E+04	7.48E+04
1/20	-1.13E+03	-4.89E+03	2.60E+03	-4.86E+03	2.59E+03	-7.45E+04	7.45E+04
1/15	-2.01E+03	-7.03E+03	2.95E+03	-6.98E+03	2.95E+03	-7.46E+04	7.44E+04
1/10	-4.52E+03	-1.21E+04	2.90E+03	-1.20E+04	2.89E+03	-7.49E+04	7.41E+04

Table R–1510. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	137.	-1.30E+03	1.36E+03	-1.26E+03	1.20E+03	-8.40E+04	6.37E+04
1/20	1.57E+03	-1.94E+03	4.84E+03	-1.84E+03	4.50E+03	-6.82E+04	5.86E+04
1/15	2.89E+03	-2.46E+03	6.96E+03	-2.24E+03	6.77E+03	-7.70E+04	5.81E+04
1/10	5.98E+03	-2.43E+03	1.96E+04	-2.13E+03	1.40E+04	-8.11E+04	7.97E+04

Table R–1511. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1512. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	79.2	-77.1	260.	-72.1	248.	-9.08E+03	1.01E+04
1/20	809.	-461.	2.05E+03	-397.	2.00E+03	-2.41E+04	2.39E+04
1/15	1.72E+03	-529.	4.01E+03	-434.	3.97E+03	-3.23E+04	3.37E+04
1/10	—	—	—	—	—	—	—

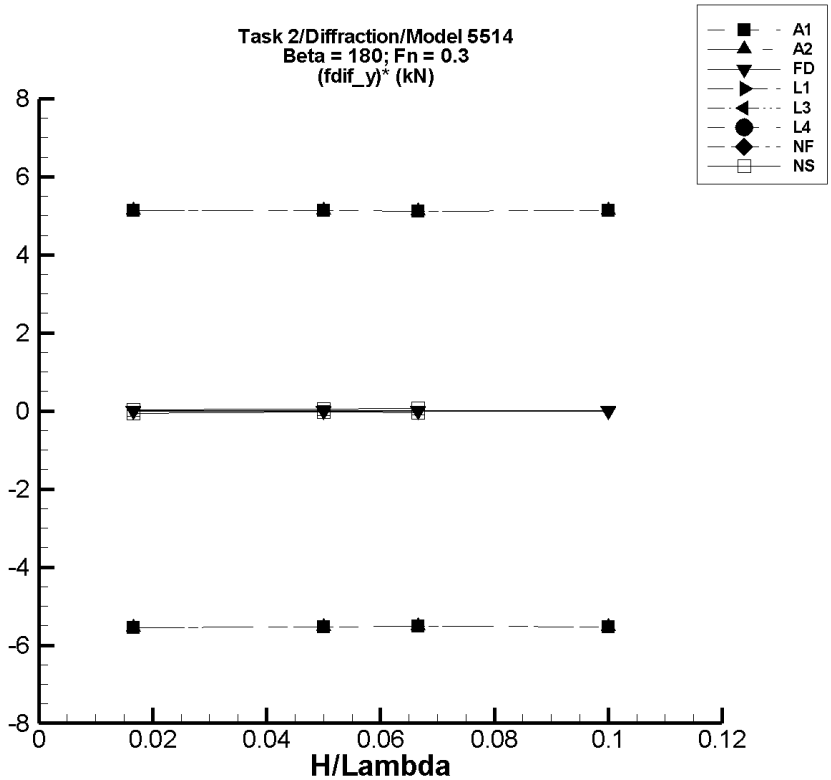

Figure R–190. Minimum and Maximum of $(F_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1513. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.03E-04	-0.138	8.88E-02	-9.26E-02	8.55E-02	-5.55	5.14
1/20	-6.07E-04	-0.414	0.266	-0.277	0.256	-5.53	5.13
1/15	-8.09E-04	-0.551	0.354	-0.369	0.340	-5.52	5.12
1/10	-1.21E-03	-0.828	0.531	-0.554	0.511	-5.53	5.13

Table R–1514. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle F_y^{\text{dif}} \rangle$	Unfiltered F_y^{dif}		Filtered F_y^{dif}		Filtered $\left(F_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)	Min. (kN)	Max. (kN)
1/60	-2.03E-04	-0.138	8.88E-02	-9.26E-02	8.55E-02	-5.55	5.14
1/20	-6.07E-04	-0.414	0.266	-0.277	0.256	-5.53	5.13
1/15	-8.09E-04	-0.551	0.354	-0.369	0.340	-5.52	5.12
1/10	-1.21E-03	-0.828	0.531	-0.554	0.511	-5.53	5.13

Table R–1515. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-2.23E-07	-6.93E-05	6.93E-05	-6.73E-05	6.69E-05	-4.02E-03	4.03E-03
1/20	-6.69E-07	-2.08E-04	2.08E-04	-2.02E-04	2.01E-04	-4.02E-03	4.03E-03
1/15	-8.92E-07	-2.77E-04	2.77E-04	-2.69E-04	2.68E-04	-4.02E-03	4.03E-03
1/10	-1.34E-06	-4.16E-04	4.16E-04	-4.04E-04	4.02E-04	-4.02E-03	4.03E-03

Table R–1516. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1517. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1518. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_y^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_y^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_y^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1519. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1520. Minimum and Maximum of F_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_y^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_y^{dif} Min. (kN)	Unfiltered F_y^{dif} Max. (kN)	Filtered F_y^{dif} Min. (kN)	Filtered F_y^{dif} Max. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_y^{\text{dif}}\right)^*$ Max. (kN)
1/60	-3.94E-05	-4.01E-03	3.58E-03	-1.12E-03	5.69E-04	-6.46E-02	3.65E-02
1/20	2.17E-04	-1.33E-02	1.36E-02	-1.37E-03	2.56E-03	-3.17E-02	4.68E-02
1/15	3.29E-04	-2.70E-02	2.91E-02	-2.23E-03	4.34E-03	-3.84E-02	6.02E-02
1/10	—	—	—	—	—	—	—

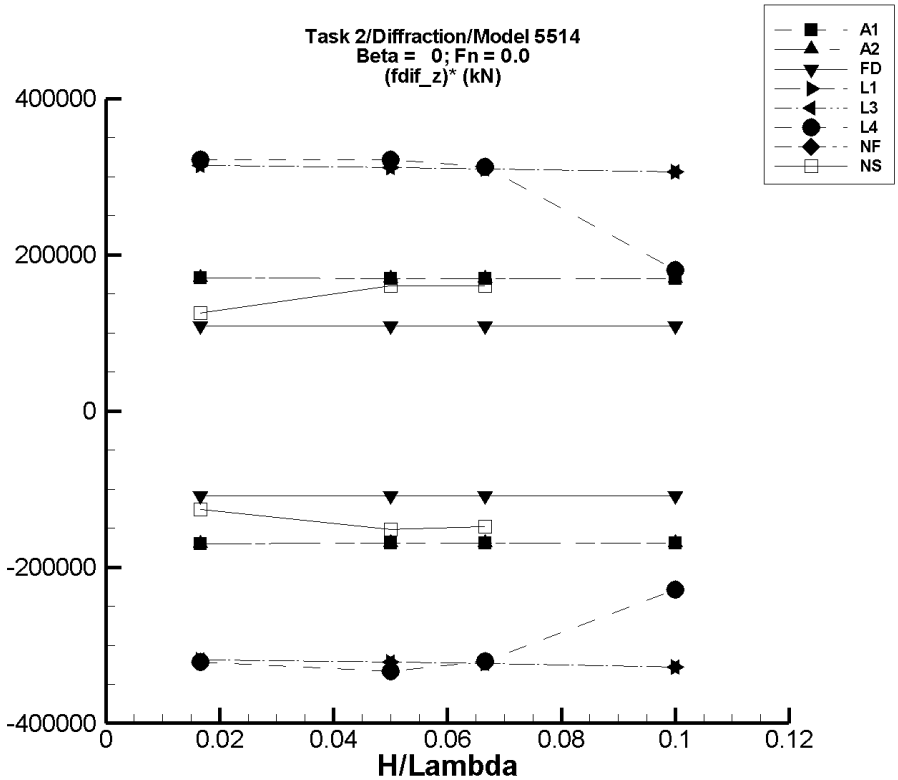

Figure R–191. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1521. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.45	-2.87E+03	2.88E+03	-2.82E+03	2.84E+03	-1.70E+05	1.70E+05
1/20	16.3	-8.57E+03	8.62E+03	-8.45E+03	8.51E+03	-1.69E+05	1.70E+05
1/15	21.7	-1.14E+04	1.15E+04	-1.13E+04	1.13E+04	-1.69E+05	1.70E+05
1/10	32.6	-1.71E+04	1.72E+04	-1.69E+04	1.70E+04	-1.69E+05	1.70E+05

Table R–1522. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.45	-2.87E+03	2.88E+03	-2.82E+03	2.84E+03	-1.70E+05	1.70E+05
1/20	16.3	-8.57E+03	8.62E+03	-8.45E+03	8.51E+03	-1.69E+05	1.70E+05
1/15	21.7	-1.14E+04	1.15E+04	-1.13E+04	1.13E+04	-1.69E+05	1.70E+05
1/10	32.6	-1.71E+04	1.72E+04	-1.69E+04	1.70E+04	-1.69E+05	1.70E+05

Table R–1523. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.62E-02	-1.83E+03	1.83E+03	-1.81E+03	1.81E+03	-1.09E+05	1.09E+05
1/20	0.168	-5.50E+03	5.50E+03	-5.44E+03	5.44E+03	-1.09E+05	1.09E+05
1/15	0.225	-7.33E+03	7.33E+03	-7.25E+03	7.25E+03	-1.09E+05	1.09E+05
1/10	0.337	-1.10E+04	1.10E+04	-1.09E+04	1.09E+04	-1.09E+05	1.09E+05

Table R–1524. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-218.	-5.55E+03	5.05E+03	-5.52E+03	5.03E+03	-3.18E+05	3.15E+05
1/20	-1.92E+03	-1.81E+04	1.37E+04	-1.80E+04	1.36E+04	-3.22E+05	3.11E+05
1/15	-3.41E+03	-2.51E+04	1.73E+04	-2.50E+04	1.72E+04	-3.24E+05	3.10E+05
1/10	-7.64E+03	-4.06E+04	2.31E+04	-4.04E+04	2.30E+04	-3.28E+05	3.06E+05

Table R–1525. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-218.	-5.55E+03	5.05E+03	-5.52E+03	5.03E+03	-3.18E+05	3.15E+05
1/20	-1.92E+03	-1.81E+04	1.37E+04	-1.80E+04	1.36E+04	-3.22E+05	3.11E+05
1/15	-3.41E+03	-2.51E+04	1.73E+04	-2.50E+04	1.72E+04	-3.24E+05	3.10E+05
1/10	-7.64E+03	-4.06E+04	2.31E+04	-4.04E+04	2.30E+04	-3.28E+05	3.06E+05

Table R–1526. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-424.	-5.86E+03	4.99E+03	-5.79E+03	4.93E+03	-3.22E+05	3.22E+05
1/20	-4.01E+03	-2.10E+04	1.23E+04	-2.07E+04	1.21E+04	-3.33E+05	3.22E+05
1/15	-7.36E+03	-2.91E+04	1.38E+04	-2.87E+04	1.35E+04	-3.21E+05	3.13E+05
1/10	-1.42E+04	-1.07E+05	3.00E+04	-3.71E+04	3.86E+03	-2.29E+05	1.80E+05

Table R–1527. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1528. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-390.	-2.52E+03	1.72E+03	-2.49E+03	1.70E+03	-1.26E+05	1.25E+05
1/20	-2.82E+03	-1.05E+04	5.31E+03	-1.04E+04	5.21E+03	-1.52E+05	1.61E+05
1/15	-4.96E+03	-1.49E+04	5.87E+03	-1.48E+04	5.70E+03	-1.48E+05	1.60E+05
1/10	—	—	—	—	—	—	—

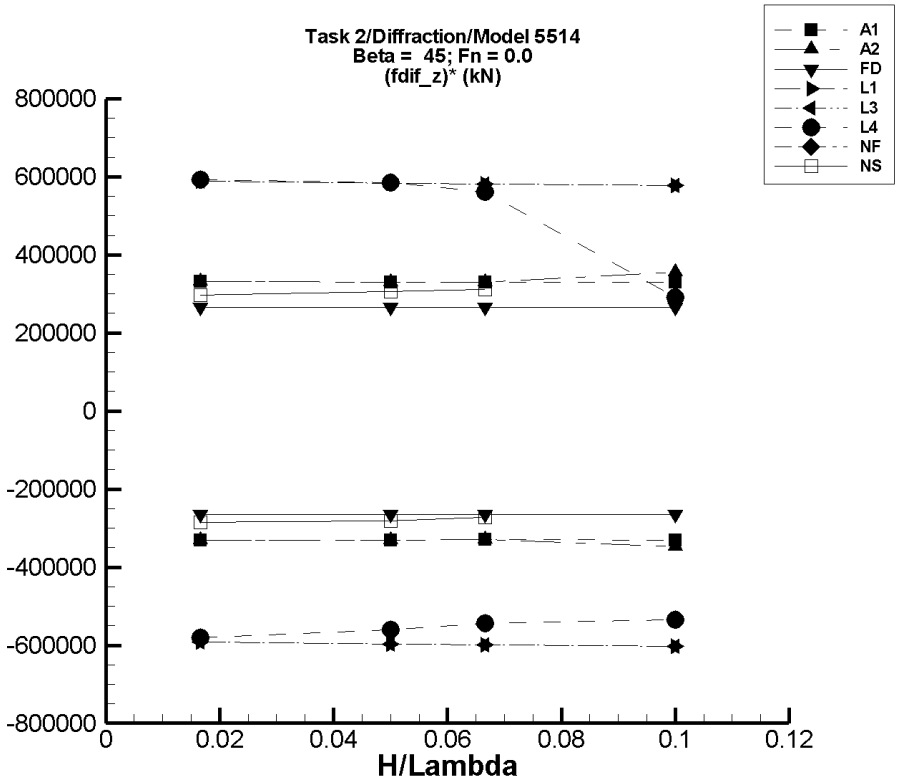

Figure R–192. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1529. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	10.3	-5.73E+03	5.63E+03	-5.51E+03	5.53E+03	-3.31E+05	3.31E+05
1/20	30.8	-1.71E+04	1.68E+04	-1.65E+04	1.65E+04	-3.31E+05	3.30E+05
1/15	41.0	-2.28E+04	2.24E+04	-2.20E+04	2.20E+04	-3.30E+05	3.30E+05
1/10	61.7	-3.43E+04	3.37E+04	-3.30E+04	3.31E+04	-3.31E+05	3.30E+05

Table R–1530. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	10.3	-5.73E+03	5.63E+03	-5.51E+03	5.53E+03	-3.31E+05	3.31E+05
1/20	30.8	-1.71E+04	1.68E+04	-1.65E+04	1.65E+04	-3.31E+05	3.30E+05
1/15	41.0	-2.28E+04	2.24E+04	-2.20E+04	2.20E+04	-3.30E+05	3.30E+05
1/10	-359.	-3.62E+04	3.61E+04	-3.52E+04	3.52E+04	-3.48E+05	3.55E+05

Table R–1531. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	0.117	-4.47E+03	4.47E+03	-4.42E+03	4.42E+03	-2.65E+05	2.65E+05
1/20	0.351	-1.34E+04	1.34E+04	-1.33E+04	1.33E+04	-2.65E+05	2.65E+05
1/15	0.470	-1.79E+04	1.79E+04	-1.77E+04	1.77E+04	-2.65E+05	2.65E+05
1/10	0.701	-2.68E+04	2.68E+04	-2.65E+04	2.65E+04	-2.65E+05	2.65E+05

Table R–1532. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-391.	-1.03E+04	9.44E+03	-1.03E+04	9.41E+03	-5.93E+05	5.88E+05
1/20	-3.49E+03	-3.34E+04	2.58E+04	-3.33E+04	2.57E+04	-5.97E+05	5.84E+05
1/15	-6.19E+03	-4.63E+04	3.28E+04	-4.61E+04	3.26E+04	-5.99E+05	5.82E+05
1/10	-1.39E+04	-7.45E+04	4.41E+04	-7.42E+04	4.39E+04	-6.03E+05	5.78E+05

Table R–1533. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-391.	-1.03E+04	9.44E+03	-1.03E+04	9.41E+03	-5.93E+05	5.88E+05
1/20	-3.49E+03	-3.34E+04	2.58E+04	-3.33E+04	2.57E+04	-5.97E+05	5.84E+05
1/15	-6.19E+03	-4.63E+04	3.28E+04	-4.61E+04	3.26E+04	-5.99E+05	5.82E+05
1/10	-1.39E+04	-7.45E+04	4.41E+04	-7.42E+04	4.39E+04	-6.03E+05	5.78E+05

Table R–1534. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\text{dif}})^*$ Min. (kN)	Filtered $(F_z^{\text{dif}})^*$ Max. (kN)
1/60	-597.	-1.04E+04	9.33E+03	-1.03E+04	9.26E+03	-5.81E+05	5.91E+05
1/20	-5.45E+03	-3.38E+04	2.40E+04	-3.34E+04	2.38E+04	-5.60E+05	5.84E+05
1/15	-9.88E+03	-4.67E+04	2.78E+04	-4.61E+04	2.76E+04	-5.44E+05	5.61E+05
1/10	-6.55E+03	-7.58E+04	5.62E+04	-6.01E+04	2.26E+04	-5.36E+05	2.91E+05

Table R–1535. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1536. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{dif}}\right)^*$ Max. (kN)
1/60	-478.	-5.29E+03	4.53E+03	-5.24E+03	4.47E+03	-2.86E+05	2.97E+05
1/20	-3.38E+03	-1.75E+04	1.21E+04	-1.74E+04	1.19E+04	-2.81E+05	3.06E+05
1/15	-6.01E+03	-2.43E+04	1.50E+04	-2.42E+04	1.48E+04	-2.73E+05	3.12E+05
1/10	—	—	—	—	—	—	—

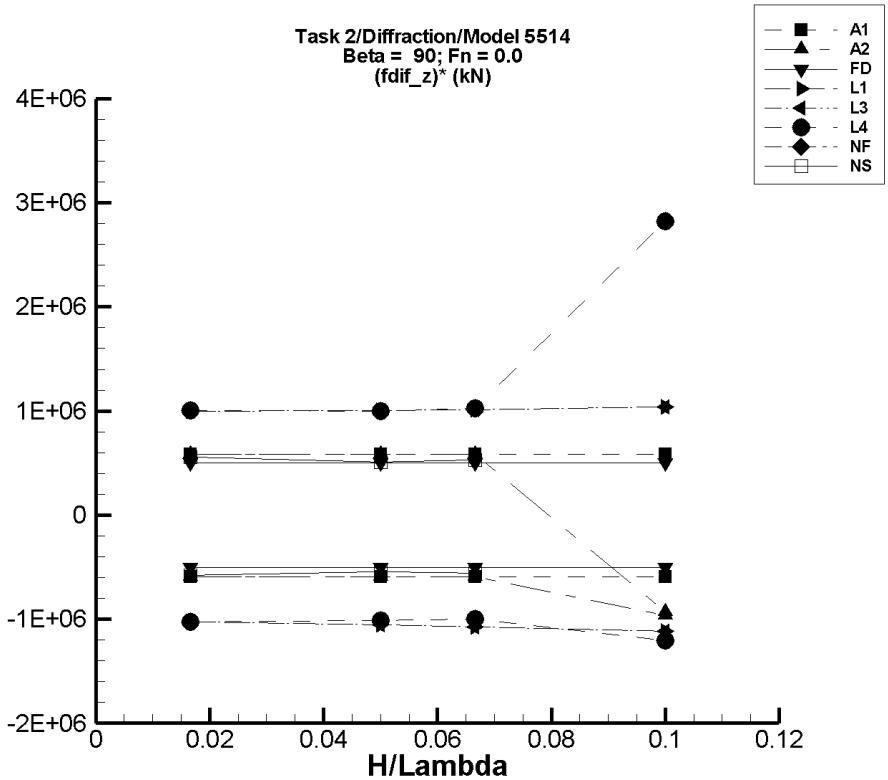

Figure R–193. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1537. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	21.1	-1.00E+04	1.02E+04	-9.88E+03	9.82E+03	-5.94E+05	5.88E+05
1/20	63.0	-3.00E+04	3.06E+04	-2.96E+04	2.94E+04	-5.93E+05	5.86E+05
1/15	83.9	-3.99E+04	4.08E+04	-3.94E+04	3.91E+04	-5.92E+05	5.85E+05
1/10	126.	-6.00E+04	6.12E+04	-5.91E+04	5.87E+04	-5.93E+05	5.86E+05

Table R–1538. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	21.1	-1.00E+04	1.02E+04	-9.88E+03	9.82E+03	-5.94E+05	5.88E+05
1/20	63.0	-3.00E+04	3.06E+04	-2.96E+04	2.94E+04	-5.93E+05	5.86E+05
1/15	83.9	-3.99E+04	4.08E+04	-3.94E+04	3.91E+04	-5.92E+05	5.85E+05
1/10	5.60E+04	-4.03E+04	-3.71E+04	-4.03E+04	-3.71E+04	-9.63E+05	-9.31E+05

Table R–1539. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	0.152	-8.50E+03	8.49E+03	-8.41E+03	8.40E+03	-5.05E+05	5.04E+05
1/20	0.455	-2.55E+04	2.55E+04	-2.52E+04	2.52E+04	-5.05E+05	5.04E+05
1/15	0.608	-3.40E+04	3.40E+04	-3.37E+04	3.36E+04	-5.05E+05	5.04E+05
1/10	0.910	-5.10E+04	5.10E+04	-5.05E+04	5.04E+04	-5.05E+05	5.04E+05

Table R–1540. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-665.	-1.79E+04	1.60E+04	-1.78E+04	1.60E+04	-1.03E+06	9.98E+05
1/20	-5.93E+03	-5.89E+04	4.44E+04	-5.86E+04	4.42E+04	-1.05E+06	1.00E+06
1/15	-1.05E+04	-8.23E+04	5.71E+04	-8.20E+04	5.68E+04	-1.07E+06	1.01E+06
1/10	-2.36E+04	-1.36E+05	8.05E+04	-1.35E+05	8.00E+04	-1.11E+06	1.04E+06

Table R–1541. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-665.	-1.79E+04	1.60E+04	-1.78E+04	1.60E+04	-1.03E+06	9.98E+05
1/20	-5.93E+03	-5.89E+04	4.44E+04	-5.86E+04	4.42E+04	-1.05E+06	1.00E+06
1/15	-1.05E+04	-8.23E+04	5.71E+04	-8.20E+04	5.68E+04	-1.07E+06	1.01E+06
1/10	-2.36E+04	-1.36E+05	8.05E+04	-1.35E+05	8.00E+04	-1.11E+06	1.04E+06

Table R–1542. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-864.	-1.80E+04	1.60E+04	-1.79E+04	1.59E+04	-1.02E+06	1.00E+06
1/20	-7.92E+03	-5.91E+04	4.23E+04	-5.85E+04	4.21E+04	-1.01E+06	1.00E+06
1/15	-1.39E+04	-8.17E+04	5.50E+04	-8.04E+04	5.43E+04	-9.98E+05	1.02E+06
1/10	1.72E+03	-3.83E+05	8.01E+05	-1.19E+05	2.84E+05	-1.21E+06	2.82E+06

Table R–1543. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1544. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-579.	-1.03E+04	8.83E+03	-1.02E+04	8.73E+03	-5.76E+05	5.59E+05
1/20	-3.95E+03	-3.15E+04	2.18E+04	-3.10E+04	2.15E+04	-5.41E+05	5.09E+05
1/15	-7.03E+03	-4.50E+04	2.87E+04	-4.44E+04	2.83E+04	-5.60E+05	5.30E+05
1/10	—	—	—	—	—	—	—

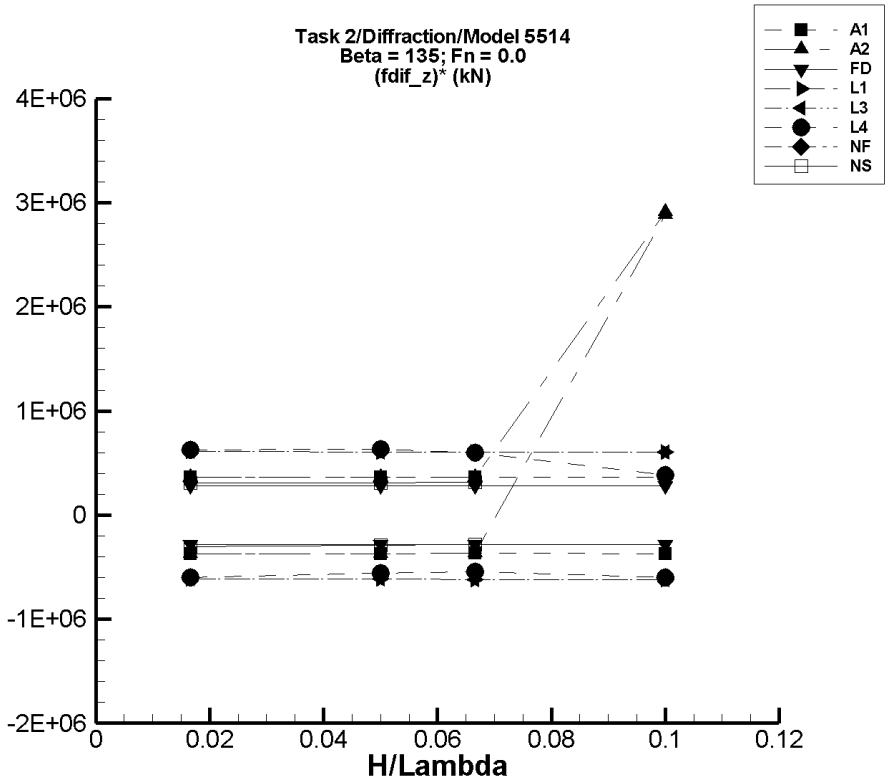

Figure R–194. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1545. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	14.0	-6.22E+03	6.22E+03	-6.15E+03	6.14E+03	-3.70E+05	3.68E+05
1/20	42.0	-1.86E+04	1.86E+04	-1.84E+04	1.84E+04	-3.69E+05	3.67E+05
1/15	55.9	-2.48E+04	2.48E+04	-2.45E+04	2.45E+04	-3.68E+05	3.66E+05
1/10	83.9	-3.72E+04	3.72E+04	-3.68E+04	3.67E+04	-3.69E+05	3.67E+05

Table R–1546. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	14.0	-6.22E+03	6.22E+03	-6.15E+03	6.14E+03	-3.70E+05	3.68E+05
1/20	42.0	-1.86E+04	1.86E+04	-1.84E+04	1.84E+04	-3.69E+05	3.67E+05
1/15	55.9	-2.48E+04	2.48E+04	-2.45E+04	2.45E+04	-3.68E+05	3.66E+05
1/10	-2.54E+05	3.45E+04	3.73E+04	3.45E+04	3.73E+04	2.89E+06	2.91E+06

Table R–1547. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	3.56E-02	-4.71E+03	4.71E+03	-4.72E+03	4.66E+03	-2.83E+05	2.80E+05
1/20	0.107	-1.41E+04	1.41E+04	-1.42E+04	1.40E+04	-2.83E+05	2.80E+05
1/15	0.143	-1.88E+04	1.88E+04	-1.89E+04	1.86E+04	-2.83E+05	2.80E+05
1/10	0.214	-2.83E+04	2.83E+04	-2.83E+04	2.80E+04	-2.83E+05	2.80E+05

Table R–1548. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-412.	-1.07E+04	9.80E+03	-1.07E+04	9.75E+03	-6.15E+05	6.10E+05
1/20	-3.61E+03	-3.45E+04	2.69E+04	-3.44E+04	2.68E+04	-6.16E+05	6.09E+05
1/15	-6.39E+03	-4.77E+04	3.43E+04	-4.75E+04	3.41E+04	-6.17E+05	6.08E+05
1/10	-1.43E+04	-7.65E+04	4.66E+04	-7.62E+04	4.64E+04	-6.19E+05	6.07E+05

Table R–1549. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-412.	-1.07E+04	9.80E+03	-1.07E+04	9.75E+03	-6.15E+05	6.10E+05
1/20	-3.61E+03	-3.45E+04	2.69E+04	-3.44E+04	2.68E+04	-6.16E+05	6.09E+05
1/15	-6.39E+03	-4.77E+04	3.43E+04	-4.75E+04	3.41E+04	-6.17E+05	6.08E+05
1/10	-1.43E+04	-7.65E+04	4.66E+04	-7.62E+04	4.64E+04	-6.19E+05	6.07E+05

Table R–1550. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-608.	-1.07E+04	9.89E+03	-1.06E+04	9.82E+03	-5.98E+05	6.25E+05
1/20	-5.69E+03	-3.39E+04	2.62E+04	-3.37E+04	2.59E+04	-5.61E+05	6.32E+05
1/15	-1.01E+04	-4.64E+04	3.02E+04	-4.61E+04	3.00E+04	-5.41E+05	6.01E+05
1/10	-8.14E+03	-6.90E+04	7.28E+04	-6.82E+04	3.05E+04	-6.01E+05	3.86E+05

Table R–1551. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1552. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-467.	-5.55E+03	4.69E+03	-5.48E+03	4.63E+03	-3.01E+05	3.06E+05
1/20	-3.35E+03	-1.81E+04	1.25E+04	-1.78E+04	1.22E+04	-2.89E+05	3.12E+05
1/15	-5.97E+03	-2.48E+04	1.55E+04	-2.47E+04	1.52E+04	-2.80E+05	3.18E+05
1/10	—	—	—	—	—	—	—

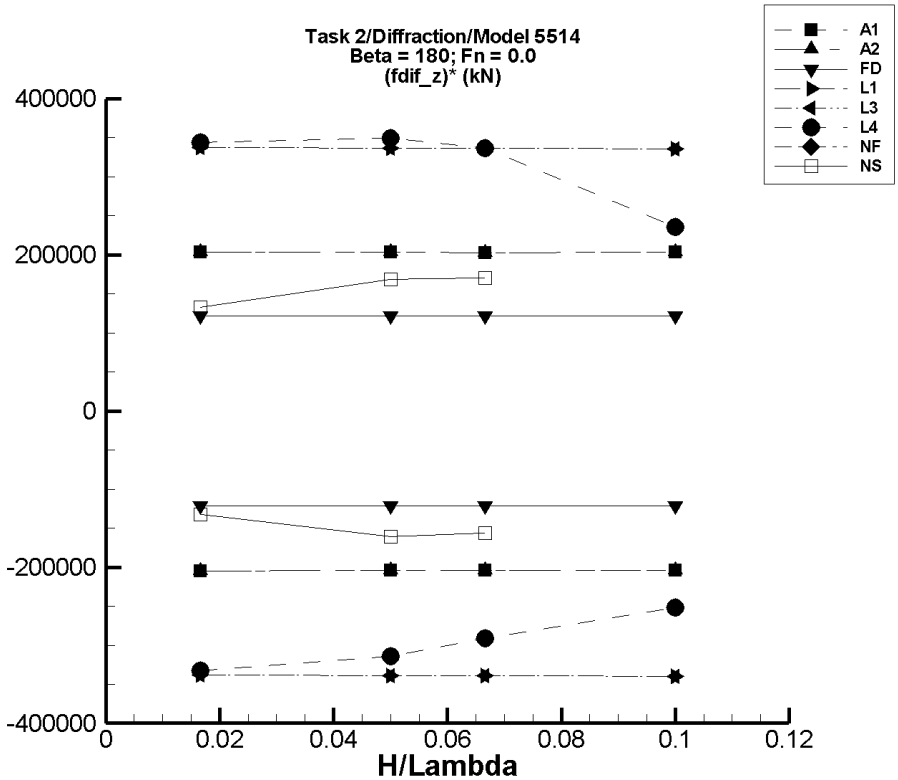

Figure R–195. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1553. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	6.58	-3.44E+03	3.44E+03	-3.41E+03	3.40E+03	-2.05E+05	2.04E+05
1/20	19.7	-1.03E+04	1.03E+04	-1.02E+04	1.02E+04	-2.04E+05	2.03E+05
1/15	26.2	-1.37E+04	1.37E+04	-1.36E+04	1.36E+04	-2.04E+05	2.03E+05
1/10	39.4	-2.06E+04	2.06E+04	-2.04E+04	2.04E+04	-2.04E+05	2.03E+05

Table R–1554. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	6.58	-3.44E+03	3.44E+03	-3.41E+03	3.40E+03	-2.05E+05	2.04E+05
1/20	19.7	-1.03E+04	1.03E+04	-1.02E+04	1.02E+04	-2.04E+05	2.03E+05
1/15	26.2	-1.37E+04	1.37E+04	-1.36E+04	1.36E+04	-2.04E+05	2.03E+05
1/10	39.4	-2.06E+04	2.06E+04	-2.04E+04	2.04E+04	-2.04E+05	2.03E+05

Table R–1555. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	1.02E-03	-2.05E+03	2.05E+03	-2.03E+03	2.03E+03	-1.22E+05	1.22E+05
1/20	3.31E-03	-6.16E+03	6.16E+03	-6.09E+03	6.09E+03	-1.22E+05	1.22E+05
1/15	4.03E-03	-8.21E+03	8.21E+03	-8.12E+03	8.12E+03	-1.22E+05	1.22E+05
1/10	6.96E-03	-1.23E+04	1.23E+04	-1.22E+04	1.22E+04	-1.22E+05	1.22E+05

Table R–1556. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-210.	-5.87E+03	5.44E+03	-5.85E+03	5.41E+03	-3.38E+05	3.37E+05
1/20	-1.86E+03	-1.89E+04	1.50E+04	-1.88E+04	1.50E+04	-3.39E+05	3.37E+05
1/15	-3.30E+03	-2.60E+04	1.92E+04	-2.59E+04	1.91E+04	-3.39E+05	3.36E+05
1/10	-7.41E+03	-4.16E+04	2.63E+04	-4.14E+04	2.62E+04	-3.40E+05	3.36E+05

Table R–1557. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-210.	-5.87E+03	5.44E+03	-5.85E+03	5.41E+03	-3.38E+05	3.37E+05
1/20	-1.86E+03	-1.89E+04	1.50E+04	-1.88E+04	1.50E+04	-3.39E+05	3.37E+05
1/15	-3.30E+03	-2.60E+04	1.92E+04	-2.59E+04	1.91E+04	-3.39E+05	3.36E+05
1/10	-7.41E+03	-4.16E+04	2.63E+04	-4.14E+04	2.62E+04	-3.40E+05	3.36E+05

Table R–1558. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-421.	-6.01E+03	5.35E+03	-5.96E+03	5.31E+03	-3.32E+05	3.44E+05
1/20	-4.12E+03	-2.06E+04	1.36E+04	-1.98E+04	1.33E+04	-3.14E+05	3.49E+05
1/15	-7.42E+03	-2.72E+04	1.52E+04	-2.68E+04	1.50E+04	-2.91E+05	3.36E+05
1/10	-1.38E+04	-8.29E+04	3.87E+04	-3.90E+04	9.74E+03	-2.52E+05	2.35E+05

Table R–1559. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1560. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-382.	-2.61E+03	1.85E+03	-2.59E+03	1.83E+03	-1.32E+05	1.33E+05
1/20	-2.80E+03	-1.10E+04	5.78E+03	-1.09E+04	5.63E+03	-1.61E+05	1.69E+05
1/15	-4.95E+03	-1.54E+04	6.51E+03	-1.53E+04	6.40E+03	-1.56E+05	1.70E+05
1/10	—	—	—	—	—	—	—

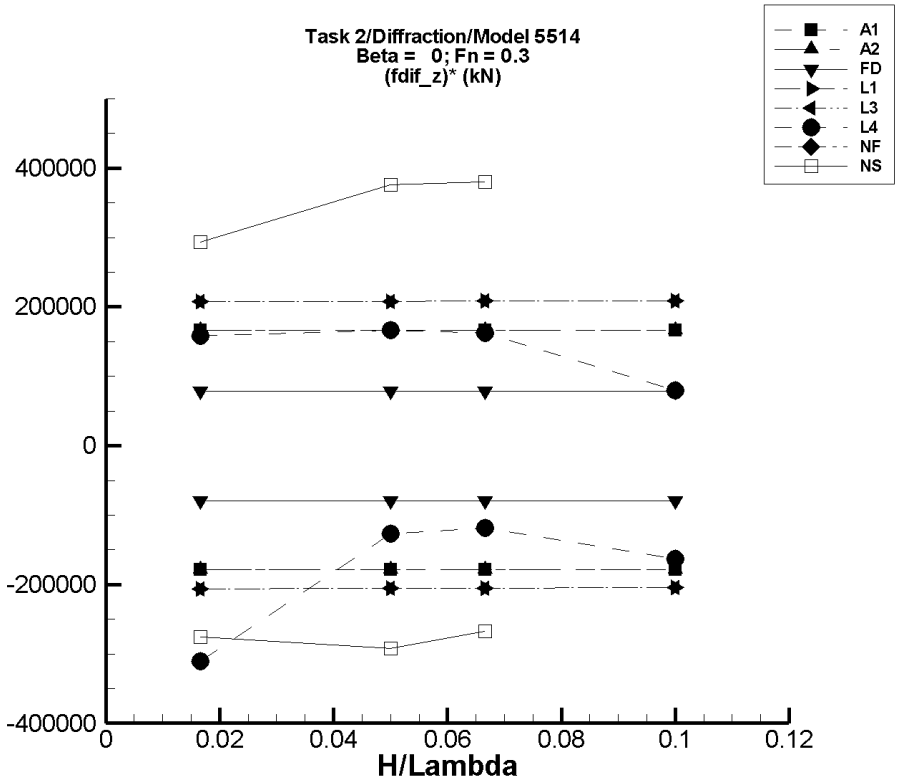

Figure R–196. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–1561. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	3.33	-3.07E+03	2.79E+03	-2.98E+03	2.78E+03	-1.79E+05	1.67E+05
1/20	9.97	-9.18E+03	8.34E+03	-8.91E+03	8.33E+03	-1.78E+05	1.66E+05
1/15	13.3	-1.22E+04	1.11E+04	-1.19E+04	1.11E+04	-1.78E+05	1.66E+05
1/10	19.9	-1.84E+04	1.67E+04	-1.78E+04	1.67E+04	-1.78E+05	1.66E+05

Table R–1562. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	3.33	-3.07E+03	2.79E+03	-2.98E+03	2.78E+03	-1.79E+05	1.67E+05
1/20	9.97	-9.18E+03	8.34E+03	-8.91E+03	8.33E+03	-1.78E+05	1.66E+05
1/15	13.3	-1.22E+04	1.11E+04	-1.19E+04	1.11E+04	-1.78E+05	1.66E+05
1/10	19.9	-1.84E+04	1.67E+04	-1.78E+04	1.67E+04	-1.78E+05	1.66E+05

Table R–1563. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	1.50	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03	-7.92E+04	7.90E+04
1/20	4.49	-3.96E+03	3.96E+03	-3.96E+03	3.96E+03	-7.92E+04	7.90E+04
1/15	5.98	-5.28E+03	5.28E+03	-5.27E+03	5.27E+03	-7.92E+04	7.90E+04
1/10	8.97	-7.92E+03	7.92E+03	-7.91E+03	7.91E+03	-7.92E+04	7.90E+04

Table R–1564. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-4.93E+03	-8.36E+03	-1.47E+03	-8.36E+03	-1.47E+03	-2.06E+05	2.07E+05
1/20	-6.36E+03	-1.66E+04	4.04E+03	-1.66E+04	4.03E+03	-2.05E+05	2.08E+05
1/15	-7.62E+03	-2.13E+04	6.28E+03	-2.13E+04	6.27E+03	-2.05E+05	2.08E+05
1/10	-1.12E+04	-3.16E+04	9.72E+03	-3.16E+04	9.71E+03	-2.04E+05	2.09E+05

Table R–1565. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-4.93E+03	-8.36E+03	-1.47E+03	-8.36E+03	-1.47E+03	-2.06E+05	2.07E+05
1/20	-6.36E+03	-1.66E+04	4.04E+03	-1.66E+04	4.03E+03	-2.05E+05	2.08E+05
1/15	-7.62E+03	-2.13E+04	6.27E+03	-2.13E+04	6.27E+03	-2.05E+05	2.08E+05
1/10	-1.12E+04	-3.16E+04	9.71E+03	-3.16E+04	9.71E+03	-2.04E+05	2.09E+05

Table R–1566. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-4.99E+03	-1.03E+04	-2.35E+03	-1.02E+04	-2.36E+03	-3.11E+05	1.58E+05
1/20	-7.09E+03	-1.39E+04	1.47E+03	-1.34E+04	1.22E+03	-1.27E+05	1.66E+05
1/15	-8.63E+03	-1.70E+04	2.26E+03	-1.65E+04	2.15E+03	-1.19E+05	1.62E+05
1/10	-1.09E+04	-5.71E+04	1.25E+04	-2.71E+04	-2.87E+03	-1.63E+05	7.98E+04

Table R–1567. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1568. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading 0° and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-494.	-5.07E+03	4.44E+03	-5.09E+03	4.39E+03	-2.76E+05	2.93E+05
1/20	-5.70E+03	-2.04E+04	1.33E+04	-2.03E+04	1.31E+04	-2.92E+05	3.76E+05
1/15	-1.12E+04	-2.91E+04	1.43E+04	-2.90E+04	1.41E+04	-2.67E+05	3.80E+05
1/10	—	—	—	—	—	—	—

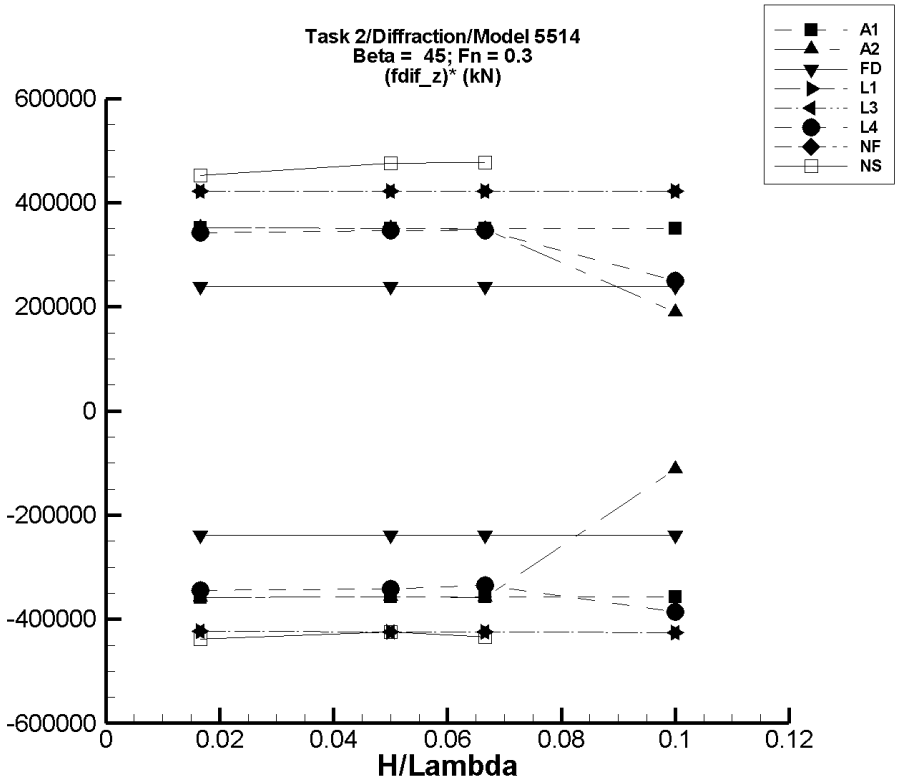

Figure R–197. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1569. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-10.4	-6.01E+03	5.88E+03	-5.99E+03	5.86E+03	-3.59E+05	3.52E+05
1/20	-31.1	-1.80E+04	1.76E+04	-1.79E+04	1.75E+04	-3.58E+05	3.51E+05
1/15	-41.4	-2.39E+04	2.34E+04	-2.38E+04	2.33E+04	-3.57E+05	3.51E+05
1/10	-62.2	-3.59E+04	3.52E+04	-3.58E+04	3.51E+04	-3.58E+05	3.51E+05

Table R–1570. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-10.4	-6.01E+03	5.88E+03	-5.99E+03	5.86E+03	-3.59E+05	3.52E+05
1/20	-31.1	-1.80E+04	1.76E+04	-1.79E+04	1.75E+04	-3.58E+05	3.51E+05
1/15	-375.	-2.44E+04	2.30E+04	-2.43E+04	2.29E+04	-3.59E+05	3.49E+05
1/10	-6.50E+03	-1.80E+04	1.32E+04	-1.78E+04	1.24E+04	-1.13E+05	1.89E+05

Table R–1571. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-0.463	-3.99E+03	3.99E+03	-3.98E+03	3.98E+03	-2.39E+05	2.39E+05
1/20	-1.39	-1.20E+04	1.20E+04	-1.20E+04	1.20E+04	-2.39E+05	2.39E+05
1/15	-1.85	-1.60E+04	1.60E+04	-1.59E+04	1.59E+04	-2.39E+05	2.39E+05
1/10	-2.78	-2.40E+04	2.40E+04	-2.39E+04	2.39E+04	-2.39E+05	2.39E+05

Table R–1572. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-5.24E+03	-1.23E+04	1.80E+03	-1.23E+04	1.79E+03	-4.23E+05	4.22E+05
1/20	-9.26E+03	-3.05E+04	1.19E+04	-3.05E+04	1.18E+04	-4.24E+05	4.22E+05
1/15	-1.28E+04	-4.11E+04	1.54E+04	-4.11E+04	1.54E+04	-4.25E+05	4.22E+05
1/10	-2.28E+04	-6.54E+04	1.94E+04	-6.54E+04	1.93E+04	-4.26E+05	4.22E+05

Table R–1573. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-5.24E+03	-1.23E+04	1.80E+03	-1.23E+04	1.79E+03	-4.23E+05	4.22E+05
1/20	-9.26E+03	-3.05E+04	1.19E+04	-3.05E+04	1.18E+04	-4.24E+05	4.22E+05
1/15	-1.28E+04	-4.11E+04	1.54E+04	-4.11E+04	1.54E+04	-4.25E+05	4.22E+05
1/10	-2.28E+04	-6.54E+04	1.94E+04	-6.54E+04	1.93E+04	-4.26E+05	4.21E+05

Table R–1574. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Max. (kN)
1/60	-5.30E+03	-1.11E+04	429.	-1.10E+04	400.	-3.44E+05	3.42E+05
1/20	-8.67E+03	-2.60E+04	8.69E+03	-2.58E+04	8.63E+03	-3.42E+05	3.46E+05
1/15	-1.09E+04	-3.32E+04	1.25E+04	-3.32E+04	1.22E+04	-3.34E+05	3.46E+05
1/10	-3.57E+03	-6.40E+04	9.12E+04	-4.21E+04	2.15E+04	-3.86E+05	2.50E+05

Table R–1575. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1576. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\text{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\text{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\text{dif}}\right)^*$ Max. (kN)
1/60	-432.	-7.80E+03	7.19E+03	-7.73E+03	7.11E+03	-4.38E+05	4.53E+05
1/20	-4.23E+03	-2.57E+04	1.98E+04	-2.55E+04	1.95E+04	-4.25E+05	4.75E+05
1/15	-6.87E+03	-3.60E+04	2.52E+04	-3.58E+04	2.49E+04	-4.34E+05	4.77E+05
1/10	—	—	—	—	—	—	—

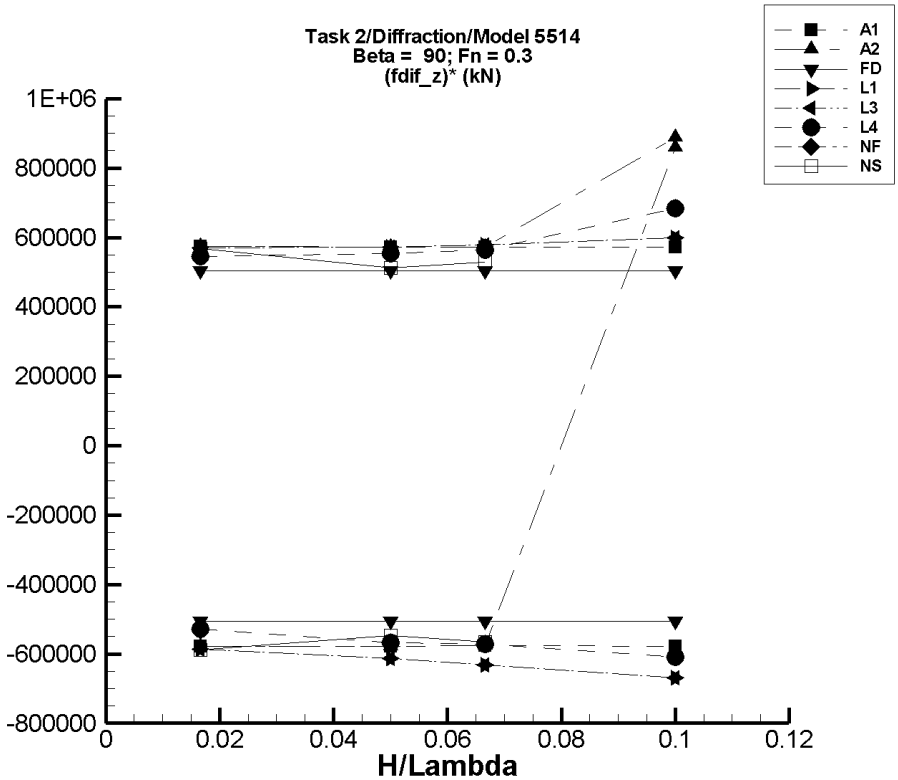

Figure R–198. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1577. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	91.3	-9.91E+03	1.02E+04	-9.56E+03	9.66E+03	-5.79E+05	5.74E+05
1/20	273.	-2.96E+04	3.06E+04	-2.86E+04	2.89E+04	-5.77E+05	5.72E+05
1/15	364.	-3.95E+04	4.08E+04	-3.81E+04	3.85E+04	-5.77E+05	5.72E+05
1/10	546.	-5.93E+04	6.13E+04	-5.72E+04	5.78E+04	-5.77E+05	5.72E+05

Table R–1578. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	91.3	-9.91E+03	1.02E+04	-9.56E+03	9.66E+03	-5.79E+05	5.74E+05
1/20	273.	-2.96E+04	3.06E+04	-2.86E+04	2.89E+04	-5.77E+05	5.72E+05
1/15	364.	-3.95E+04	4.08E+04	-3.81E+04	3.85E+04	-5.77E+05	5.72E+05
1/10	-1.24E+05	-3.79E+04	-3.48E+04	-3.79E+04	-3.48E+04	8.58E+05	8.89E+05

Table R–1579. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	0.143	-8.51E+03	8.51E+03	-8.43E+03	8.41E+03	-5.06E+05	5.05E+05
1/20	0.430	-2.55E+04	2.55E+04	-2.53E+04	2.52E+04	-5.06E+05	5.05E+05
1/15	0.573	-3.40E+04	3.40E+04	-3.37E+04	3.37E+04	-5.06E+05	5.05E+05
1/10	0.862	-5.11E+04	5.10E+04	-5.06E+04	5.05E+04	-5.06E+05	5.05E+05

Table R–1580. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	-5.33E+03	-1.51E+04	4.22E+03	-1.51E+04	4.18E+03	-5.86E+05	5.71E+05
1/20	-9.98E+03	-4.08E+04	1.87E+04	-4.07E+04	1.86E+04	-6.14E+05	5.72E+05
1/15	-1.40E+04	-5.63E+04	2.47E+04	-5.61E+04	2.45E+04	-6.31E+05	5.78E+05
1/10	-2.56E+04	-9.29E+04	3.46E+04	-9.25E+04	3.43E+04	-6.68E+05	5.99E+05

Table R–1581. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	-5.33E+03	-1.51E+04	4.22E+03	-1.51E+04	4.18E+03	-5.86E+05	5.71E+05
1/20	-9.98E+03	-4.08E+04	1.87E+04	-4.07E+04	1.86E+04	-6.14E+05	5.72E+05
1/15	-1.40E+04	-5.63E+04	2.46E+04	-5.61E+04	2.45E+04	-6.31E+05	5.78E+05
1/10	-2.56E+04	-9.29E+04	3.46E+04	-9.25E+04	3.43E+04	-6.68E+05	5.99E+05

Table R–1582. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Max. (kN)
1/60	-5.49E+03	-1.44E+04	3.65E+03	-1.43E+04	3.58E+03	-5.29E+05	5.45E+05
1/20	-1.11E+04	-3.96E+04	1.72E+04	-3.94E+04	1.67E+04	-5.67E+05	5.55E+05
1/15	-1.51E+04	-5.35E+04	2.30E+04	-5.32E+04	2.26E+04	-5.72E+05	5.65E+05
1/10	-1.43E+04	-1.92E+05	6.18E+05	-7.52E+04	5.42E+04	-6.09E+05	6.84E+05

Table R–1583. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1584. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-722.	-1.06E+04	8.86E+03	-1.05E+04	8.76E+03	-5.88E+05	5.69E+05
1/20	-4.64E+03	-3.24E+04	2.14E+04	-3.20E+04	2.10E+04	-5.46E+05	5.13E+05
1/15	-8.21E+03	-4.63E+04	2.74E+04	-4.59E+04	2.70E+04	-5.65E+05	5.29E+05
1/10	—	—	—	—	—	—	—

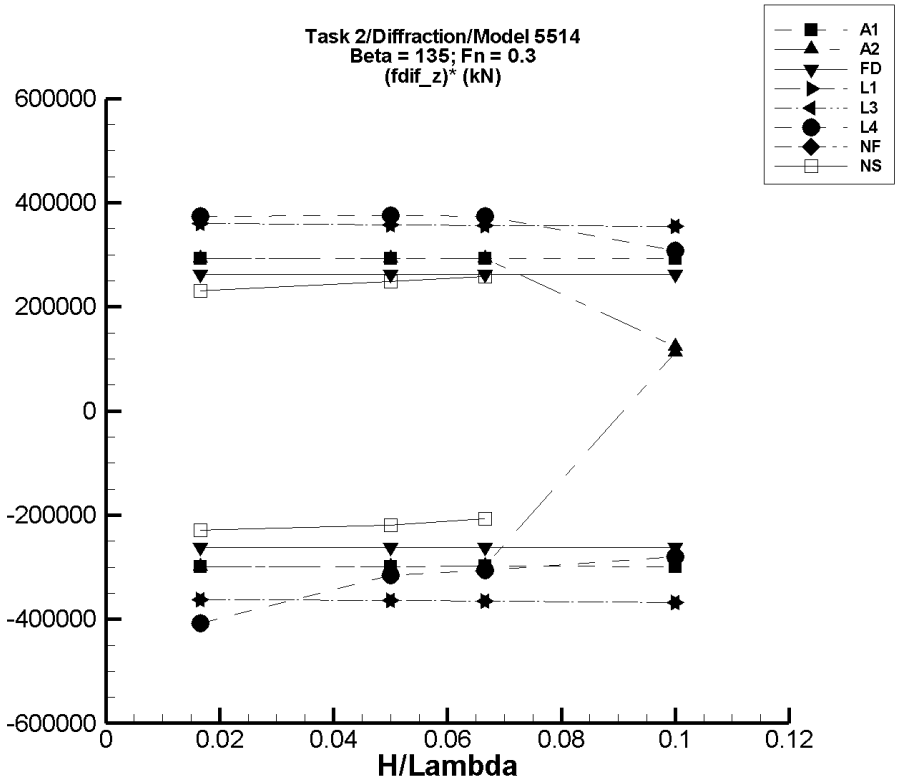

Figure R–199. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1585. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.61	-5.12E+03	5.02E+03	-4.98E+03	4.89E+03	-2.99E+05	2.93E+05
1/20	16.8	-1.53E+04	1.50E+04	-1.49E+04	1.46E+04	-2.99E+05	2.92E+05
1/15	22.4	-2.04E+04	2.00E+04	-1.99E+04	1.95E+04	-2.98E+05	2.92E+05
1/10	33.6	-3.06E+04	3.00E+04	-2.98E+04	2.93E+04	-2.99E+05	2.92E+05

Table R–1586. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.61	-5.12E+03	5.02E+03	-4.98E+03	4.89E+03	-2.99E+05	2.93E+05
1/20	16.8	-1.53E+04	1.50E+04	-1.49E+04	1.46E+04	-2.99E+05	2.92E+05
1/15	22.4	-2.04E+04	2.00E+04	-1.99E+04	1.95E+04	-2.98E+05	2.92E+05
1/10	1.58E+04	2.70E+04	2.81E+04	2.70E+04	2.81E+04	1.12E+05	1.23E+05

Table R–1587. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-3.12	-4.49E+03	4.49E+03	-4.38E+03	4.38E+03	-2.63E+05	2.63E+05
1/20	-9.37	-1.35E+04	1.35E+04	-1.31E+04	1.31E+04	-2.63E+05	2.63E+05
1/15	-12.5	-1.80E+04	1.80E+04	-1.75E+04	1.75E+04	-2.63E+05	2.63E+05
1/10	-18.7	-2.70E+04	2.70E+04	-2.63E+04	2.63E+04	-2.63E+05	2.63E+05

Table R–1588. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-5.15E+03	-1.12E+04	916.	-1.12E+04	860.	-3.62E+05	3.60E+05
1/20	-8.41E+03	-2.68E+04	9.65E+03	-2.66E+04	9.48E+03	-3.64E+05	3.58E+05
1/15	-1.13E+04	-3.59E+04	1.27E+04	-3.56E+04	1.25E+04	-3.66E+05	3.57E+05
1/10	-1.94E+04	-5.66E+04	1.63E+04	-5.62E+04	1.60E+04	-3.68E+05	3.54E+05

Table R–1589. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-5.15E+03	-1.12E+04	916.	-1.12E+04	860.	-3.62E+05	3.60E+05
1/20	-8.41E+03	-2.68E+04	9.65E+03	-2.66E+04	9.48E+03	-3.64E+05	3.58E+05
1/15	-1.13E+04	-3.59E+04	1.27E+04	-3.56E+04	1.25E+04	-3.66E+05	3.57E+05
1/10	-1.94E+04	-5.66E+04	1.63E+04	-5.62E+04	1.60E+04	-3.68E+05	3.54E+05

Table R–1590. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Max. (kN)	Filtered F_z^{dif} Min. (kN)	Max. (kN)	Filtered $(F_z^{\mathrm{dif}})^*$ Min. (kN)	Max. (kN)
1/60	-5.63E+03	-1.25E+04	662.	-1.24E+04	589.	-4.08E+05	3.73E+05
1/20	-1.17E+04	-2.77E+04	7.59E+03	-2.75E+04	7.04E+03	-3.16E+05	3.75E+05
1/15	-1.61E+04	-3.67E+04	1.04E+04	-3.65E+04	8.77E+03	-3.06E+05	3.73E+05
1/10	-2.05E+04	-4.93E+04	2.06E+04	-4.85E+04	1.02E+04	-2.80E+05	3.07E+05

Table R–1591. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1592. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-531.	-4.41E+03	3.36E+03	-4.34E+03	3.32E+03	-2.29E+05	2.31E+05
1/20	-4.18E+03	-1.53E+04	8.46E+03	-1.51E+04	8.23E+03	-2.19E+05	2.48E+05
1/15	-7.29E+03	-2.13E+04	1.03E+04	-2.11E+04	9.94E+03	-2.07E+05	2.59E+05
1/10	—	—	—	—	—	—	—

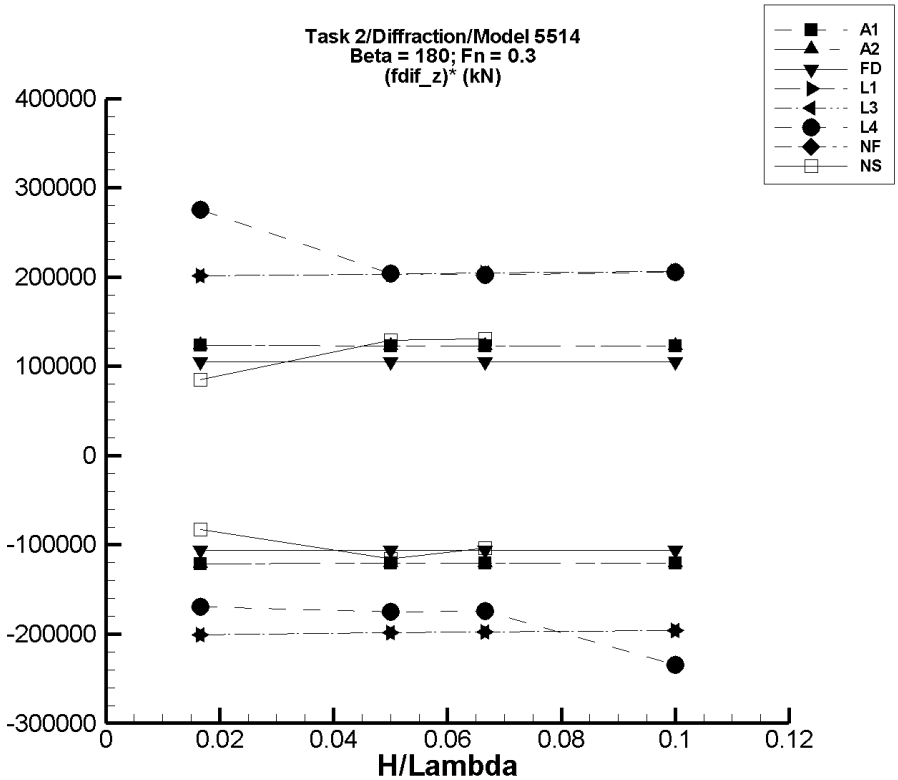

Figure R–200. Minimum and Maximum of $(F_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1593. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	31.2	-2.06E+03	2.16E+03	-1.98E+03	2.09E+03	-1.21E+05	1.23E+05
1/20	93.4	-6.15E+03	6.47E+03	-5.94E+03	6.25E+03	-1.21E+05	1.23E+05
1/15	124.	-8.19E+03	8.61E+03	-7.90E+03	8.32E+03	-1.20E+05	1.23E+05
1/10	187.	-1.23E+04	1.29E+04	-1.19E+04	1.25E+04	-1.21E+05	1.23E+05

Table R–1594. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	31.2	-2.06E+03	2.16E+03	-1.98E+03	2.09E+03	-1.21E+05	1.23E+05
1/20	93.4	-6.15E+03	6.47E+03	-5.94E+03	6.25E+03	-1.21E+05	1.23E+05
1/15	124.	-8.19E+03	8.61E+03	-7.90E+03	8.32E+03	-1.20E+05	1.23E+05
1/10	187.	-1.23E+04	1.29E+04	-1.19E+04	1.25E+04	-1.21E+05	1.23E+05

Table R–1595. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	5.69	-1.82E+03	1.82E+03	-1.76E+03	1.76E+03	-1.06E+05	1.05E+05
1/20	17.1	-5.47E+03	5.47E+03	-5.29E+03	5.29E+03	-1.06E+05	1.05E+05
1/15	22.7	-7.29E+03	7.30E+03	-7.05E+03	7.05E+03	-1.06E+05	1.05E+05
1/10	34.1	-1.09E+04	1.09E+04	-1.06E+04	1.06E+04	-1.06E+05	1.05E+05

Table R–1596. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-5.00E+03	-8.39E+03	-1.60E+03	-8.35E+03	-1.64E+03	-2.01E+05	2.01E+05
1/20	-7.13E+03	-1.72E+04	3.18E+03	-1.71E+04	3.05E+03	-1.99E+05	2.04E+05
1/15	-9.00E+03	-2.23E+04	4.82E+03	-2.22E+04	4.64E+03	-1.98E+05	2.05E+05
1/10	-1.43E+04	-3.41E+04	6.60E+03	-3.39E+04	6.32E+03	-1.96E+05	2.07E+05

Table R–1597. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ **Mean (kN)**	**Unfiltered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** F_z^{dif} **Min. (kN)**	**Max. (kN)**	**Filtered** $\left(F_z^{\mathrm{dif}}\right)^*$ **Min. (kN)**	**Max. (kN)**
1/60	-5.00E+03	-8.39E+03	-1.60E+03	-8.35E+03	-1.64E+03	-2.01E+05	2.01E+05
1/20	-7.13E+03	-1.72E+04	3.18E+03	-1.71E+04	3.05E+03	-1.99E+05	2.04E+05
1/15	-9.00E+03	-2.23E+04	4.82E+03	-2.22E+04	4.64E+03	-1.98E+05	2.05E+05
1/10	-1.43E+04	-3.41E+04	6.60E+03	-3.39E+04	6.32E+03	-1.96E+05	2.07E+05

Table R–1598. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-5.65E+03	-8.58E+03	-970.	-8.47E+03	-1.05E+03	-1.69E+05	2.76E+05
1/20	-1.07E+04	-2.01E+04	-109.	-1.95E+04	-550.	-1.75E+05	2.04E+05
1/15	-1.44E+04	-2.73E+04	890.	-2.60E+04	-951.	-1.74E+05	2.02E+05
1/10	-2.28E+04	-7.01E+04	6.43E+03	-4.62E+04	-2.20E+03	-2.34E+05	2.06E+05

Table R–1599. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1600. Minimum and Maximum of F_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle F_z^{\mathrm{dif}} \rangle$ Mean (kN)	Unfiltered F_z^{dif} Min. (kN)	Unfiltered F_z^{dif} Max. (kN)	Filtered F_z^{dif} Min. (kN)	Filtered F_z^{dif} Max. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Min. (kN)	Filtered $\left(F_z^{\mathrm{dif}}\right)^*$ Max. (kN)
1/60	-498.	-1.91E+03	942.	-1.88E+03	922.	-8.29E+04	8.52E+04
1/20	-3.58E+03	-9.45E+03	2.99E+03	-9.34E+03	2.89E+03	-1.15E+05	1.29E+05
1/15	-5.63E+03	-1.28E+04	3.37E+03	-1.26E+04	3.09E+03	-1.04E+05	1.31E+05
1/10	—	—	—	—	—	—	—

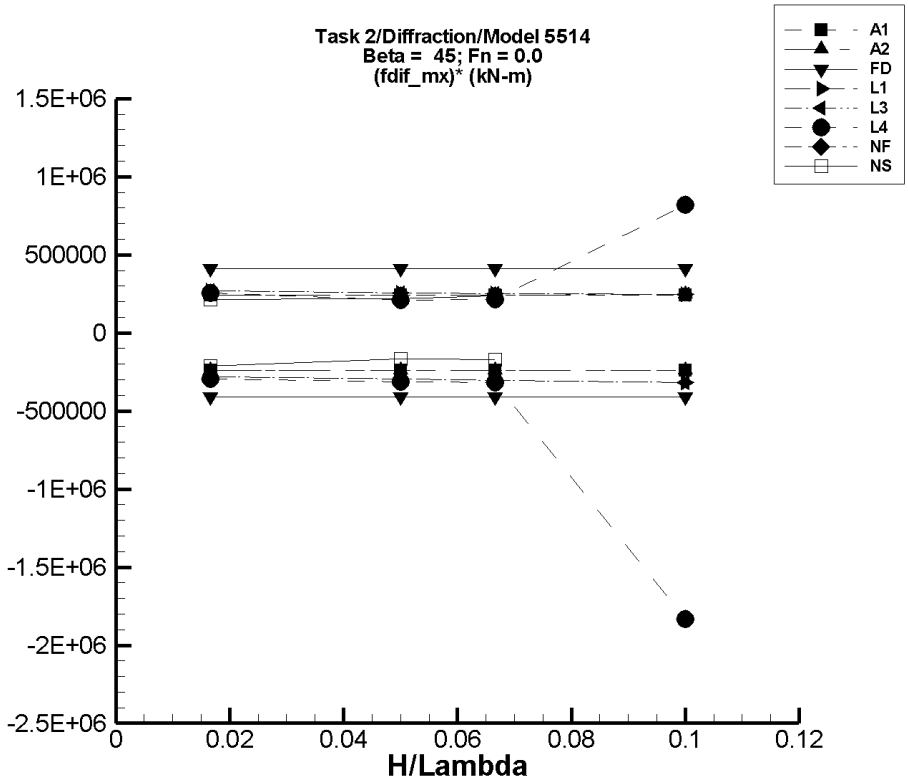

Figure R–201. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1601. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.22	-4.05E+03	4.06E+03	-4.01E+03	4.02E+03	-2.41E+05	2.41E+05
1/20	6.65	-1.21E+04	1.21E+04	-1.20E+04	1.20E+04	-2.40E+05	2.40E+05
1/15	8.86	-1.61E+04	1.62E+04	-1.60E+04	1.60E+04	-2.40E+05	2.40E+05
1/10	13.3	-2.42E+04	2.43E+04	-2.40E+04	2.40E+04	-2.40E+05	2.40E+05

Table R–1602. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.22	-4.05E+03	4.06E+03	-4.01E+03	4.02E+03	-2.41E+05	2.41E+05
1/20	6.65	-1.21E+04	1.21E+04	-1.20E+04	1.20E+04	-2.40E+05	2.40E+05
1/15	8.86	-1.61E+04	1.62E+04	-1.60E+04	1.60E+04	-2.40E+05	2.40E+05
1/10	-88.8	-2.46E+04	2.48E+04	-2.43E+04	2.45E+04	-2.42E+05	2.46E+05

Table R–1603. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.22E-02	-6.92E+03	6.92E+03	-6.84E+03	6.84E+03	-4.10E+05	4.11E+05
1/20	-9.66E-02	-2.08E+04	2.08E+04	-2.05E+04	2.05E+04	-4.10E+05	4.11E+05
1/15	-0.129	-2.77E+04	2.77E+04	-2.74E+04	2.74E+04	-4.10E+05	4.11E+05
1/10	-0.193	-4.15E+04	4.15E+04	-4.10E+04	4.11E+04	-4.10E+05	4.11E+05

Table R–1604. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	405.	-4.30E+03	4.88E+03	-4.28E+03	4.87E+03	-2.81E+05	2.68E+05
1/20	3.65E+03	-1.12E+04	1.65E+04	-1.11E+04	1.65E+04	-2.95E+05	2.57E+05
1/15	6.50E+03	-1.38E+04	2.34E+04	-1.36E+04	2.33E+04	-3.02E+05	2.53E+05
1/10	1.46E+04	-1.72E+04	3.94E+04	-1.71E+04	3.93E+04	-3.17E+05	2.47E+05

Table R–1605. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	405.	-4.30E+03	4.88E+03	-4.28E+03	4.87E+03	-2.81E+05	2.68E+05
1/20	3.65E+03	-1.12E+04	1.65E+04	-1.11E+04	1.65E+04	-2.95E+05	2.57E+05
1/15	6.50E+03	-1.38E+04	2.34E+04	-1.36E+04	2.33E+04	-3.02E+05	2.53E+05
1/10	1.46E+04	-1.72E+04	3.94E+04	-1.71E+04	3.93E+04	-3.17E+05	2.47E+05

Table R–1606. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-218.	-5.38E+03	4.30E+03	-5.14E+03	4.07E+03	-2.96E+05	2.57E+05
1/20	-2.80E+03	-1.96E+04	8.66E+03	-1.84E+04	7.79E+03	-3.12E+05	2.12E+05
1/15	-6.24E+03	-2.89E+04	8.91E+03	-2.74E+04	8.11E+03	-3.18E+05	2.15E+05
1/10	-5.93E+04	-4.15E+05	1.85E+05	-2.42E+05	2.29E+04	-1.83E+06	8.22E+05

Table R–1607. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1608. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-388.	-3.98E+03	3.30E+03	-3.94E+03	3.22E+03	-2.13E+05	2.16E+05
1/20	-4.07E+03	-1.25E+04	7.10E+03	-1.24E+04	6.84E+03	-1.67E+05	2.18E+05
1/15	-8.76E+03	-2.05E+04	7.57E+03	-2.03E+04	7.06E+03	-1.73E+05	2.37E+05
1/10	—	—	—	—	—	—	—

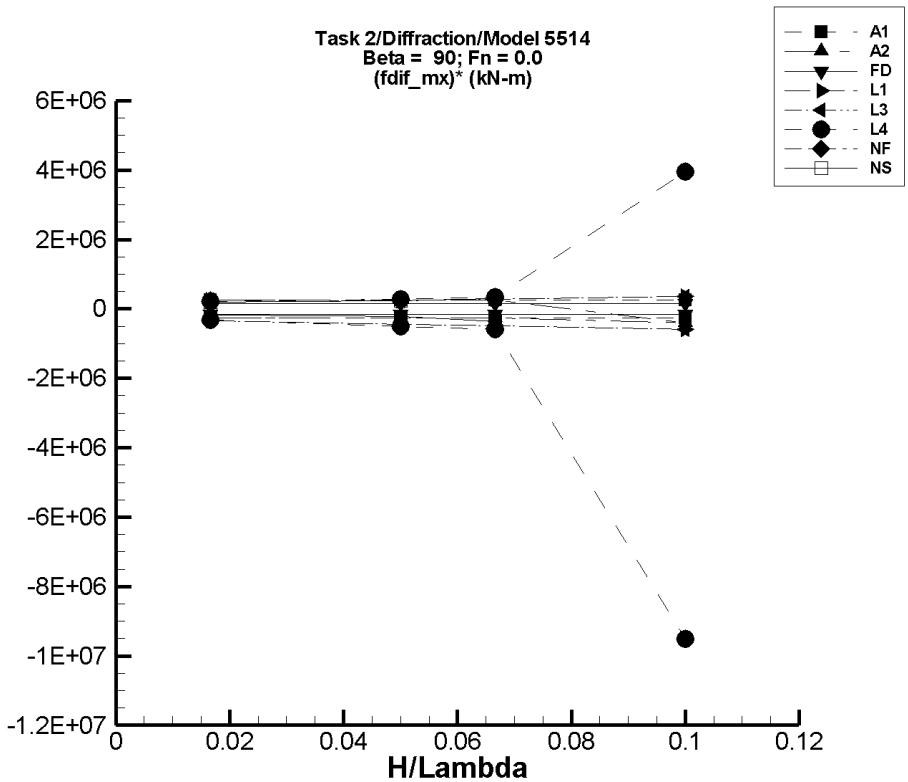

Figure R–202. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1609. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	6.81	-4.24E+03	4.23E+03	-4.20E+03	4.18E+03	-2.52E+05	2.51E+05
1/20	20.4	-1.27E+04	1.27E+04	-1.26E+04	1.25E+04	-2.51E+05	2.50E+05
1/15	27.1	-1.69E+04	1.69E+04	-1.67E+04	1.67E+04	-2.51E+05	2.50E+05
1/10	40.8	-2.54E+04	2.53E+04	-2.51E+04	2.50E+04	-2.51E+05	2.50E+05

Table R–1610. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	6.81	-4.24E+03	4.23E+03	-4.20E+03	4.18E+03	-2.52E+05	2.51E+05
1/20	20.4	-1.27E+04	1.27E+04	-1.26E+04	1.25E+04	-2.51E+05	2.50E+05
1/15	27.1	-1.69E+04	1.69E+04	-1.67E+04	1.67E+04	-2.51E+05	2.50E+05
1/10	2.63E+04	-1.51E+04	-1.39E+04	-1.51E+04	-1.39E+04	-4.14E+05	-4.02E+05

Table R–1611. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	2.73E-02	-2.55E+03	2.55E+03	-2.57E+03	2.52E+03	-1.54E+05	1.51E+05
1/20	8.17E-02	-7.64E+03	7.64E+03	-7.70E+03	7.56E+03	-1.54E+05	1.51E+05
1/15	0.110	-1.02E+04	1.02E+04	-1.03E+04	1.01E+04	-1.54E+05	1.51E+05
1/10	0.163	-1.53E+04	1.53E+04	-1.54E+04	1.51E+04	-1.54E+05	1.51E+05

Table R–1612. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	789.	-5.07E+03	5.05E+03	-5.04E+03	5.04E+03	-3.50E+05	2.55E+05
1/20	7.10E+03	-1.54E+04	1.94E+04	-1.52E+04	1.93E+04	-4.47E+05	2.44E+05
1/15	1.26E+04	-2.07E+04	3.11E+04	-2.04E+04	3.09E+04	-4.95E+05	2.75E+05
1/10	2.84E+04	-3.14E+04	6.43E+04	-3.08E+04	6.38E+04	-5.92E+05	3.54E+05

Table R–1613. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	789.	-5.07E+03	5.05E+03	-5.04E+03	5.04E+03	-3.50E+05	2.55E+05
1/20	7.10E+03	-1.54E+04	1.94E+04	-1.52E+04	1.93E+04	-4.47E+05	2.44E+05
1/15	1.26E+04	-2.07E+04	3.11E+04	-2.04E+04	3.09E+04	-4.95E+05	2.75E+05
1/10	2.84E+04	-3.14E+04	6.43E+04	-3.08E+04	6.38E+04	-5.92E+05	3.54E+05

Table R–1614. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-257.	-6.69E+03	3.57E+03	-5.49E+03	3.23E+03	-3.14E+05	2.09E+05
1/20	-6.07E+03	-3.39E+04	8.61E+03	-3.14E+04	8.22E+03	-5.06E+05	2.86E+05
1/15	-1.37E+04	-6.13E+04	1.07E+04	-5.31E+04	9.27E+03	-5.92E+05	3.44E+05
1/10	-9.48E+04	-3.07E+06	2.78E+05	-1.05E+06	3.01E+05	-9.52E+06	3.95E+06

Table R–1615. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1616. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-567.	-3.67E+03	2.59E+03	-3.61E+03	2.56E+03	-1.82E+05	1.87E+05
1/20	-5.73E+03	-1.67E+04	6.08E+03	-1.64E+04	5.76E+03	-2.14E+05	2.30E+05
1/15	-1.21E+04	-3.78E+04	7.73E+03	-3.65E+04	7.24E+03	-3.66E+05	2.90E+05
1/10	—	—	—	—	—	—	—

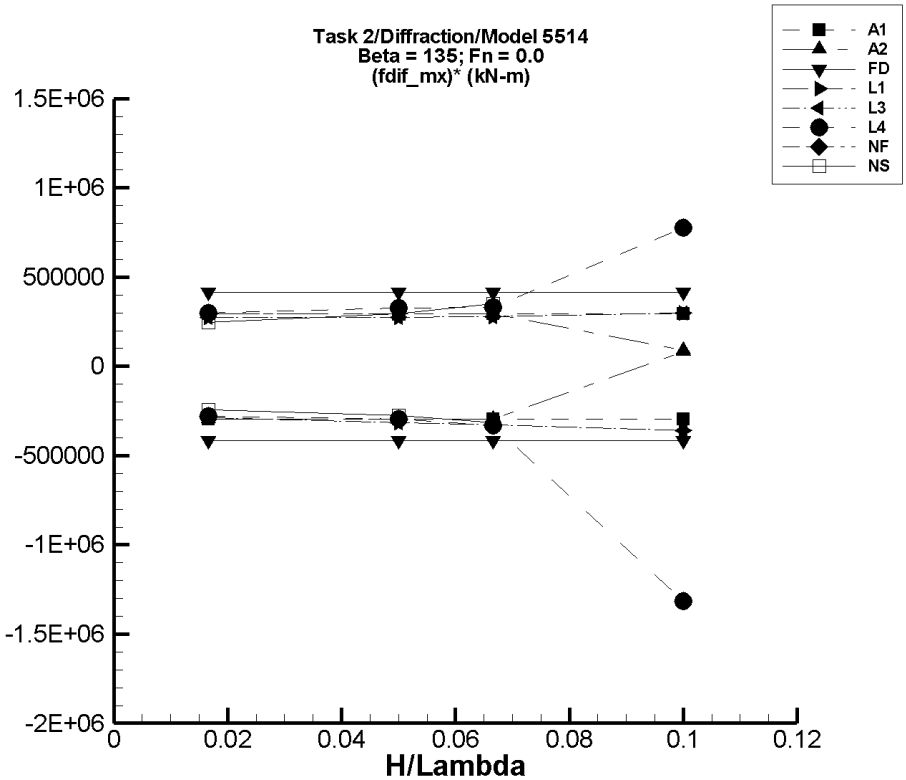

Figure R–203. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1617. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	4.28	-5.00E+03	5.00E+03	-4.95E+03	4.94E+03	-2.97E+05	2.96E+05
1/20	12.8	-1.50E+04	1.49E+04	-1.48E+04	1.48E+04	-2.96E+05	2.95E+05
1/15	17.1	-1.99E+04	1.99E+04	-1.97E+04	1.97E+04	-2.96E+05	2.95E+05
1/10	25.6	-2.99E+04	2.99E+04	-2.96E+04	2.95E+04	-2.96E+05	2.95E+05

Table R–1618. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	4.28	-5.00E+03	5.00E+03	-4.95E+03	4.94E+03	-2.97E+05	2.96E+05
1/20	12.8	-1.50E+04	1.49E+04	-1.48E+04	1.48E+04	-2.96E+05	2.95E+05
1/15	17.1	-1.99E+04	1.99E+04	-1.97E+04	1.97E+04	-2.96E+05	2.95E+05
1/10	-9.05E+03	-1.05E+03	127.	-1.05E+03	127.	7.99E+04	9.17E+04

Table R–1619. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	0.228	-7.03E+03	7.03E+03	-6.95E+03	6.95E+03	-4.17E+05	4.17E+05
1/20	0.685	-2.11E+04	2.11E+04	-2.09E+04	2.09E+04	-4.17E+05	4.17E+05
1/15	0.913	-2.81E+04	2.81E+04	-2.78E+04	2.78E+04	-4.17E+05	4.17E+05
1/10	1.37	-4.22E+04	4.22E+04	-4.17E+04	4.17E+04	-4.17E+05	4.17E+05

Table R–1620. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	417.	-4.43E+03	5.00E+03	-4.41E+03	4.99E+03	-2.89E+05	2.74E+05
1/20	3.75E+03	-1.20E+04	1.75E+04	-1.20E+04	1.75E+04	-3.14E+05	2.75E+05
1/15	6.67E+03	-1.53E+04	2.55E+04	-1.52E+04	2.54E+04	-3.28E+05	2.80E+05
1/10	1.50E+04	-2.11E+04	4.51E+04	-2.08E+04	4.49E+04	-3.58E+05	2.99E+05

Table R–1621. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	417.	-4.43E+03	5.00E+03	-4.41E+03	4.99E+03	-2.89E+05	2.74E+05
1/20	3.75E+03	-1.20E+04	1.75E+04	-1.20E+04	1.75E+04	-3.14E+05	2.75E+05
1/15	6.67E+03	-1.53E+04	2.55E+04	-1.52E+04	2.54E+04	-3.28E+05	2.80E+05
1/10	1.50E+04	-2.11E+04	4.51E+04	-2.08E+04	4.49E+04	-3.58E+05	2.99E+05

Table R–1622. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-131.	-5.00E+03	5.07E+03	-4.78E+03	4.85E+03	-2.79E+05	2.99E+05
1/20	-2.35E+03	-1.82E+04	1.52E+04	-1.71E+04	1.39E+04	-2.96E+05	3.25E+05
1/15	-5.56E+03	-2.89E+04	1.77E+04	-2.78E+04	1.65E+04	-3.34E+05	3.31E+05
1/10	-5.28E+04	-5.50E+05	8.71E+04	-1.84E+05	2.49E+04	-1.31E+06	7.77E+05

Table R–1623. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1624. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-386.	-4.52E+03	3.81E+03	-4.45E+03	3.73E+03	-2.44E+05	2.47E+05
1/20	-4.04E+03	-1.83E+04	1.12E+04	-1.79E+04	1.08E+04	-2.77E+05	2.96E+05
1/15	-8.74E+03	-3.03E+04	1.50E+04	-2.98E+04	1.46E+04	-3.16E+05	3.51E+05
1/10	—	—	—	—	—	—	—

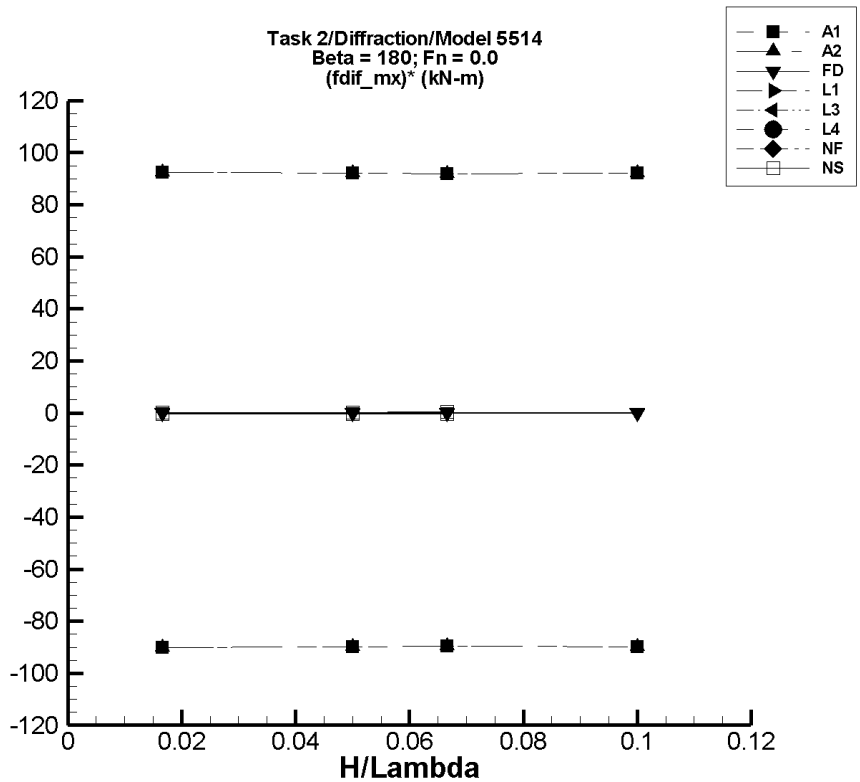

Figure R–204. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1625. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-3.71E-03	-1.53	1.55	-1.51	1.54	-90.1	92.4
1/20	-1.11E-02	-4.57	4.65	-4.50	4.59	-89.8	92.1
1/15	-1.48E-02	-6.08	6.19	-6.00	6.12	-89.7	92.0
1/10	-2.22E-02	-9.14	9.30	-9.01	9.19	-89.8	92.1

Table R–1626. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-3.71E-03	-1.53	1.55	-1.51	1.54	-90.1	92.4
1/20	-1.11E-02	-4.57	4.65	-4.50	4.59	-89.8	92.1
1/15	-1.48E-02	-6.08	6.19	-6.00	6.12	-89.7	92.0
1/10	-2.22E-02	-9.14	9.30	-9.01	9.19	-89.8	92.1

Table R–1627. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-2.13E-08	-8.13E-04	8.13E-04	-8.04E-04	8.05E-04	-4.82E-02	4.83E-02
1/20	-6.40E-08	-2.44E-03	2.44E-03	-2.41E-03	2.41E-03	-4.82E-02	4.83E-02
1/15	-8.52E-08	-3.25E-03	3.25E-03	-3.22E-03	3.22E-03	-4.82E-02	4.83E-02
1/10	-1.28E-07	-4.88E-03	4.88E-03	-4.82E-03	4.83E-03	-4.82E-02	4.83E-02

Table R–1628. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1629. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1630. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1631. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1632. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	6.08E-05	-9.49E-02	8.66E-02	-5.03E-03	4.08E-03	-0.306	0.241
1/20	1.71E-04	-0.333	0.350	-1.46E-02	1.11E-02	-0.296	0.218
1/15	9.64E-04	-0.374	0.351	-2.18E-02	2.37E-02	-0.342	0.340
1/10	—	—	—	—	—	—	—

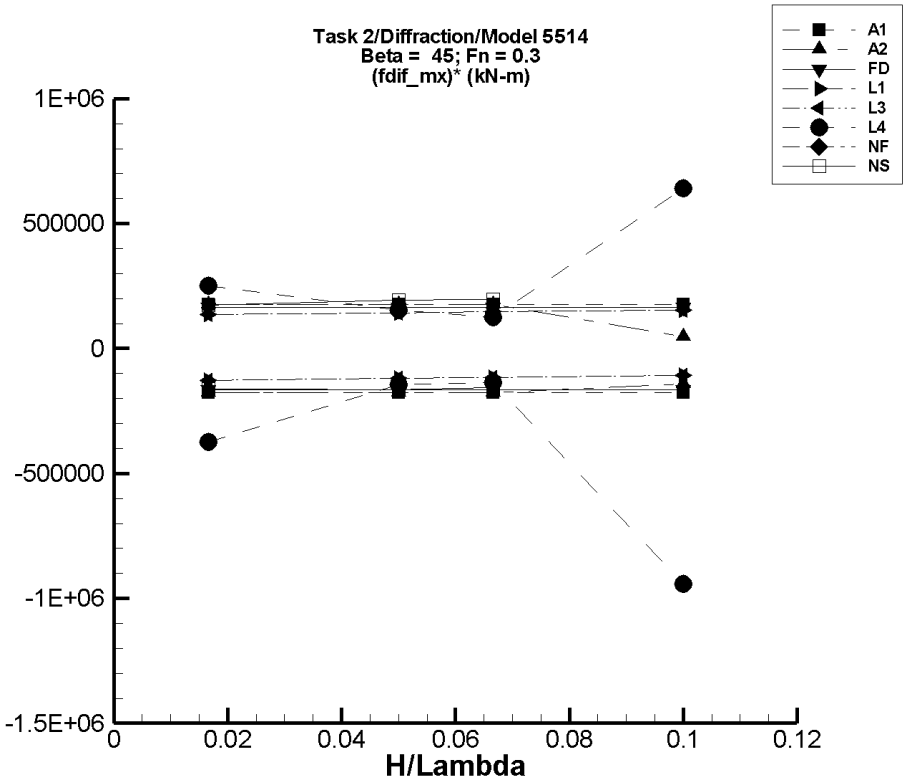

Figure R–205. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1633. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	3.83	-2.95E+03	2.95E+03	-2.94E+03	2.94E+03	-1.77E+05	1.76E+05
1/20	11.5	-8.84E+03	8.84E+03	-8.81E+03	8.81E+03	-1.76E+05	1.76E+05
1/15	15.3	-1.18E+04	1.18E+04	-1.17E+04	1.17E+04	-1.76E+05	1.76E+05
1/10	22.9	-1.77E+04	1.77E+04	-1.76E+04	1.76E+04	-1.76E+05	1.76E+05

Table R–1634. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	3.83	-2.95E+03	2.95E+03	-2.94E+03	2.94E+03	-1.77E+05	1.76E+05
1/20	11.5	-8.84E+03	8.84E+03	-8.81E+03	8.81E+03	-1.76E+05	1.76E+05
1/15	31.1	-1.18E+04	1.18E+04	-1.17E+04	1.17E+04	-1.76E+05	1.75E+05
1/10	1.24E+04	-1.60E+03	1.72E+04	-1.66E+03	1.71E+04	-1.41E+05	4.68E+04

Table R–1635. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-1.15	-2.74E+03	2.74E+03	-2.74E+03	2.74E+03	-1.64E+05	1.64E+05
1/20	-3.45	-8.23E+03	8.23E+03	-8.21E+03	8.21E+03	-1.64E+05	1.64E+05
1/15	-4.60	-1.10E+04	1.10E+04	-1.09E+04	1.09E+04	-1.64E+05	1.64E+05
1/10	-6.91	-1.65E+04	1.65E+04	-1.64E+04	1.64E+04	-1.64E+05	1.64E+05

Table R–1636. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	655.	-1.46E+03	2.90E+03	-1.46E+03	2.90E+03	-1.27E+05	1.35E+05
1/20	5.90E+03	-46.4	1.30E+04	-42.5	1.30E+04	-1.19E+05	1.43E+05
1/15	1.05E+04	2.83E+03	2.03E+04	2.83E+03	2.03E+04	-1.15E+05	1.47E+05
1/10	2.36E+04	1.29E+04	3.91E+04	1.29E+04	3.91E+04	-1.07E+05	1.55E+05

Table R–1637. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	655.	-1.46E+03	2.90E+03	-1.46E+03	2.90E+03	-1.27E+05	1.35E+05
1/20	5.90E+03	-46.5	1.30E+04	-42.6	1.30E+04	-1.19E+05	1.43E+05
1/15	1.05E+04	2.83E+03	2.03E+04	2.83E+03	2.03E+04	-1.15E+05	1.47E+05
1/10	2.36E+04	1.29E+04	3.91E+04	1.29E+04	3.91E+04	-1.07E+05	1.55E+05

Table R–1638. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	0.465	-6.55E+03	4.57E+03	-6.24E+03	4.19E+03	-3.75E+05	2.51E+05
1/20	-2.01E+03	-9.62E+03	6.09E+03	-9.30E+03	5.66E+03	-1.46E+05	1.53E+05
1/15	-5.49E+03	-1.51E+04	6.43E+03	-1.45E+04	2.82E+03	-1.36E+05	1.25E+05
1/10	-4.52E+04	-5.19E+05	1.39E+05	-1.39E+05	1.89E+04	-9.42E+05	6.42E+05

Table R–1639. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

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

Table R–1640. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-354.	-3.12E+03	2.59E+03	-3.08E+03	2.56E+03	-1.63E+05	1.75E+05
1/20	-2.96E+03	-1.13E+04	6.85E+03	-1.11E+04	6.71E+03	-1.64E+05	1.93E+05
1/15	-5.31E+03	-1.60E+04	7.90E+03	-1.57E+04	7.72E+03	-1.56E+05	1.96E+05
1/10	—	—	—	—	—	—	—

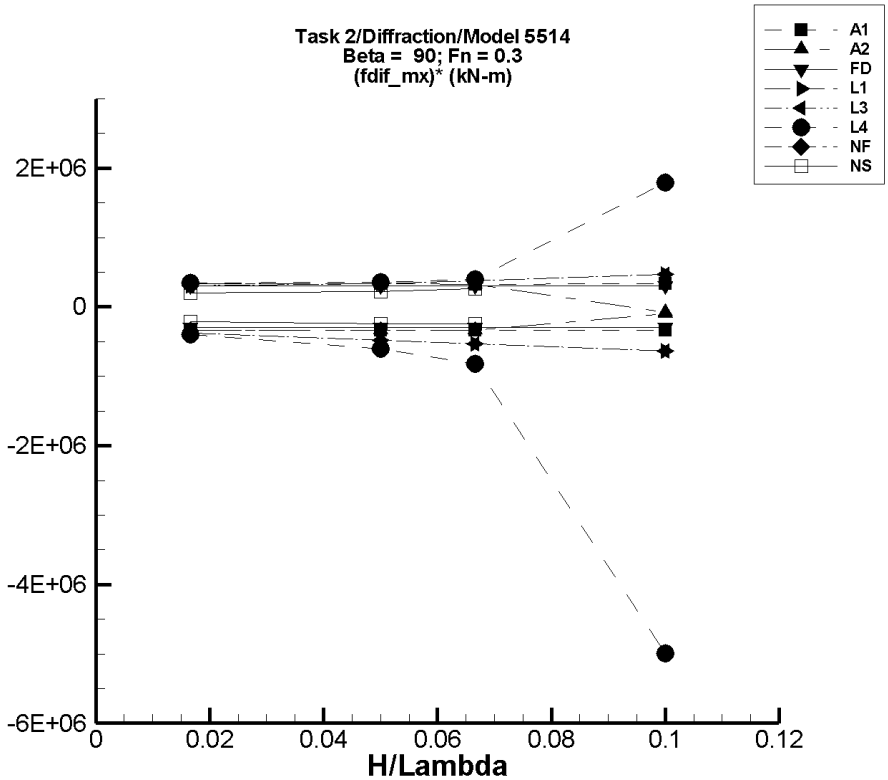

Figure R–206. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1641. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	0.634	-5.58E+03	5.58E+03	-5.55E+03	5.51E+03	-3.33E+05	3.31E+05
1/20	1.90	-1.67E+04	1.67E+04	-1.66E+04	1.65E+04	-3.32E+05	3.30E+05
1/15	2.52	-2.22E+04	2.22E+04	-2.21E+04	2.20E+04	-3.32E+05	3.29E+05
1/10	3.79	-3.34E+04	3.34E+04	-3.32E+04	3.30E+04	-3.32E+05	3.30E+05

Table R–1642. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	0.634	-5.58E+03	5.58E+03	-5.55E+03	5.51E+03	-3.33E+05	3.31E+05
1/20	1.90	-1.67E+04	1.67E+04	-1.66E+04	1.65E+04	-3.32E+05	3.30E+05
1/15	2.52	-2.22E+04	2.22E+04	-2.21E+04	2.20E+04	-3.32E+05	3.29E+05
1/10	1.37E+03	-8.87E+03	-6.75E+03	-8.87E+03	-6.75E+03	-1.02E+05	-8.12E+04

Table R–1643. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_x^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	0.161	-5.04E+03	5.04E+03	-4.98E+03	4.99E+03	-2.99E+05	2.99E+05
1/20	0.482	-1.51E+04	1.51E+04	-1.50E+04	1.50E+04	-2.99E+05	2.99E+05
1/15	0.641	-2.02E+04	2.02E+04	-1.99E+04	1.99E+04	-2.99E+05	2.99E+05
1/10	0.963	-3.03E+04	3.02E+04	-2.99E+04	2.99E+04	-2.99E+05	2.99E+05

Table R–1644. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	626.	-5.71E+03	5.72E+03	-5.68E+03	5.71E+03	-3.78E+05	3.05E+05
1/20	5.61E+03	-1.84E+04	2.26E+04	-1.83E+04	2.25E+04	-4.77E+05	3.37E+05
1/15	9.97E+03	-2.55E+04	3.52E+04	-2.53E+04	3.50E+04	-5.28E+05	3.75E+05
1/10	2.24E+04	-4.13E+04	6.94E+04	-4.07E+04	6.88E+04	-6.31E+05	4.64E+05

Table R–1645. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	626.	-5.71E+03	5.72E+03	-5.68E+03	5.71E+03	-3.78E+05	3.05E+05
1/20	5.61E+03	-1.84E+04	2.26E+04	-1.83E+04	2.25E+04	-4.77E+05	3.37E+05
1/15	9.97E+03	-2.55E+04	3.52E+04	-2.53E+04	3.50E+04	-5.28E+05	3.75E+05
1/10	2.24E+04	-4.13E+04	6.94E+04	-4.07E+04	6.88E+04	-6.31E+05	4.64E+05

Table R–1646. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-496.	-7.14E+03	5.56E+03	-7.08E+03	5.23E+03	-3.95E+05	3.43E+05
1/20	-6.23E+03	-3.74E+04	1.21E+04	-3.65E+04	1.16E+04	-6.06E+05	3.57E+05
1/15	-1.36E+04	-6.93E+04	1.31E+04	-6.85E+04	1.27E+04	-8.23E+05	3.95E+05
1/10	-4.79E+04	-3.27E+06	4.31E+05	-5.48E+05	1.31E+05	-5.00E+06	1.79E+06

Table R–1647. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

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

Table R–1648. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-469.	-4.13E+03	2.98E+03	-4.06E+03	2.92E+03	-2.15E+05	2.03E+05
1/20	-4.60E+03	-1.70E+04	6.61E+03	-1.65E+04	6.33E+03	-2.39E+05	2.19E+05
1/15	-9.60E+03	-2.72E+04	8.27E+03	-2.60E+04	7.84E+03	-2.46E+05	2.62E+05
1/10	—	—	—	—	—	—	—

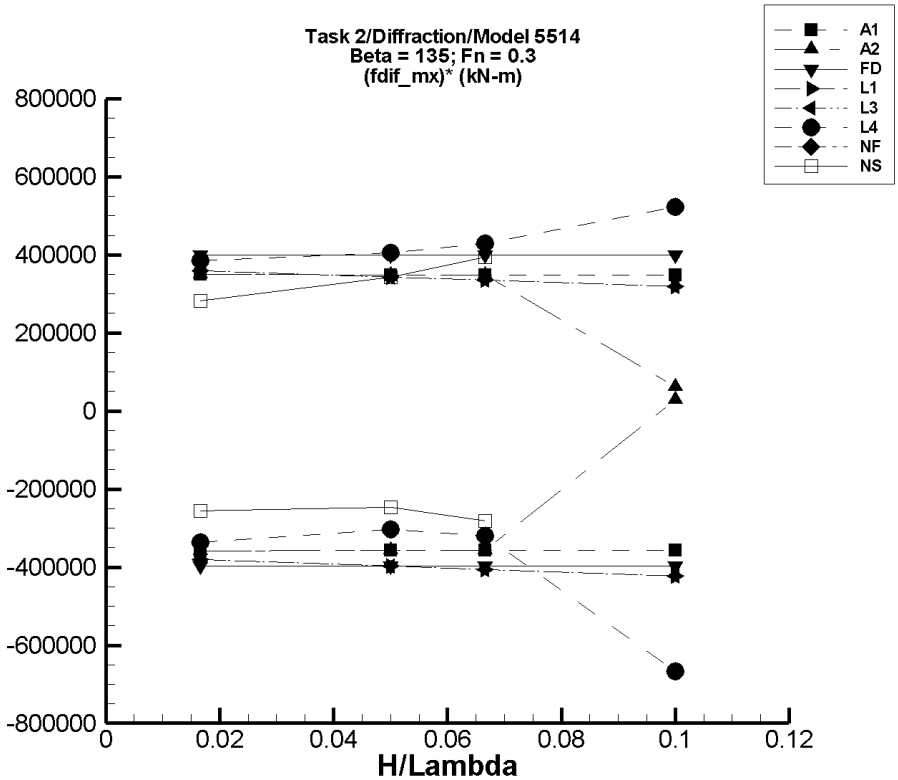

Figure R–207. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1649. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	11.4	-5.97E+03	6.00E+03	-5.96E+03	5.83E+03	-3.58E+05	3.49E+05
1/20	34.1	-1.79E+04	1.79E+04	-1.78E+04	1.75E+04	-3.57E+05	3.48E+05
1/15	45.4	-2.38E+04	2.39E+04	-2.37E+04	2.32E+04	-3.57E+05	3.48E+05
1/10	68.2	-3.57E+04	3.59E+04	-3.57E+04	3.49E+04	-3.57E+05	3.48E+05

Table R–1650. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	11.4	-5.97E+03	6.00E+03	-5.96E+03	5.83E+03	-3.58E+05	3.49E+05
1/20	34.1	-1.79E+04	1.79E+04	-1.78E+04	1.75E+04	-3.57E+05	3.48E+05
1/15	45.4	-2.38E+04	2.39E+04	-2.37E+04	2.32E+04	-3.57E+05	3.48E+05
1/10	5.62E+03	8.40E+03	1.17E+04	8.40E+03	1.17E+04	2.78E+04	6.13E+04

Table R–1651. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_x^{dif} Min. (kN-m)	Unfiltered M_x^{dif} Max. (kN-m)	Filtered M_x^{dif} Min. (kN-m)	Filtered M_x^{dif} Max. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_x^{\text{dif}})^*$ Max. (kN-m)
1/60	-3.76	-6.78E+03	6.78E+03	-6.61E+03	6.64E+03	-3.96E+05	3.99E+05
1/20	-11.3	-2.04E+04	2.03E+04	-1.98E+04	1.99E+04	-3.96E+05	3.99E+05
1/15	-15.1	-2.71E+04	2.71E+04	-2.64E+04	2.66E+04	-3.96E+05	3.99E+05
1/10	-22.6	-4.07E+04	4.07E+04	-3.97E+04	3.99E+04	-3.96E+05	3.99E+05

Table R–1652. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	426.	-5.92E+03	6.47E+03	-5.91E+03	6.42E+03	-3.80E+05	3.60E+05
1/20	3.79E+03	-1.61E+04	2.11E+04	-1.61E+04	2.10E+04	-3.97E+05	3.43E+05
1/15	6.73E+03	-2.04E+04	2.92E+04	-2.03E+04	2.91E+04	-4.06E+05	3.35E+05
1/10	1.51E+04	-2.72E+04	4.72E+04	-2.72E+04	4.71E+04	-4.23E+05	3.19E+05

Table R–1653. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	426.	-5.92E+03	6.47E+03	-5.91E+03	6.42E+03	-3.80E+05	3.60E+05
1/20	3.79E+03	-1.61E+04	2.11E+04	-1.61E+04	2.10E+04	-3.97E+05	3.43E+05
1/15	6.73E+03	-2.04E+04	2.92E+04	-2.03E+04	2.91E+04	-4.06E+05	3.35E+05
1/10	1.51E+04	-2.72E+04	4.72E+04	-2.72E+04	4.71E+04	-4.23E+05	3.20E+05

Table R–1654. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-211.	-6.51E+03	6.40E+03	-5.83E+03	6.19E+03	-3.37E+05	3.84E+05
1/20	-4.54E+03	-2.12E+04	1.61E+04	-1.97E+04	1.57E+04	-3.03E+05	4.05E+05
1/15	-9.98E+03	-3.21E+04	1.93E+04	-3.13E+04	1.86E+04	-3.19E+05	4.28E+05
1/10	-3.69E+04	-2.94E+05	3.07E+04	-1.04E+05	1.53E+04	-6.67E+05	5.22E+05

Table R–1655. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

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

Table R–1656. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-408.	-4.72E+03	4.42E+03	-4.67E+03	4.28E+03	-2.56E+05	2.81E+05
1/20	-4.51E+03	-1.73E+04	1.31E+04	-1.69E+04	1.26E+04	-2.47E+05	3.42E+05
1/15	-9.54E+03	-2.91E+04	1.75E+04	-2.83E+04	1.67E+04	-2.82E+05	3.94E+05
1/10	—	—	—	—	—	—	—

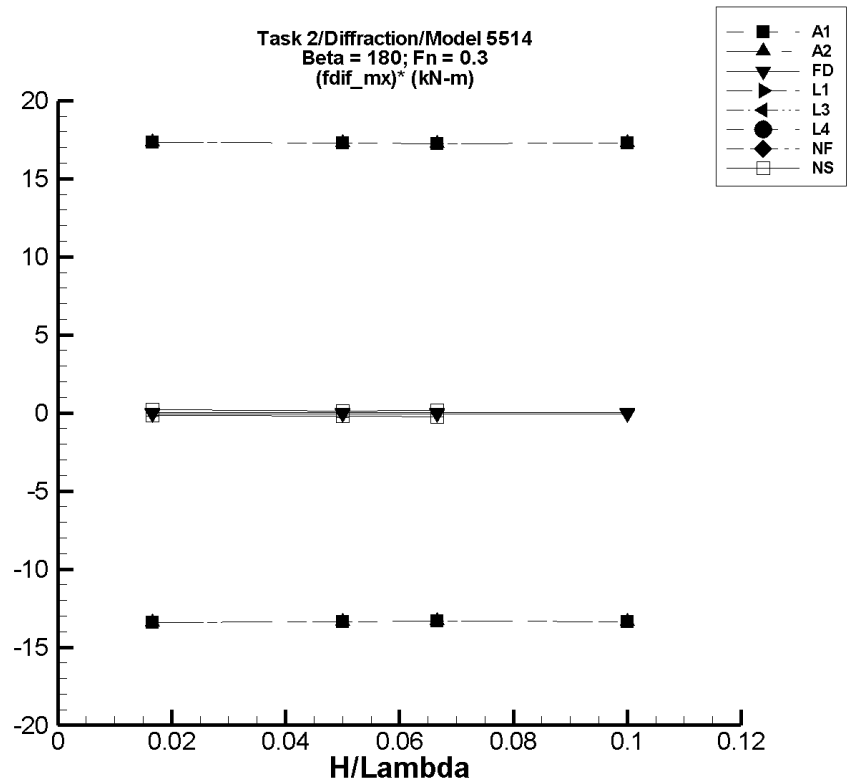

Figure R–208. Minimum and Maximum of $(M_x^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1657. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.70E-02	-0.352	0.322	-0.206	0.306	-13.4	17.3
1/20	5.10E-02	-1.05	0.962	-0.617	0.914	-13.4	17.3
1/15	6.79E-02	-1.40	1.28	-0.822	1.22	-13.3	17.2
1/10	0.102	-2.10	1.92	-1.23	1.83	-13.4	17.3

Table R–1658. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.70E-02	-0.352	0.322	-0.206	0.306	-13.4	17.3
1/20	5.10E-02	-1.05	0.962	-0.617	0.914	-13.4	17.3
1/15	6.79E-02	-1.40	1.28	-0.822	1.22	-13.3	17.2
1/10	0.102	-2.10	1.92	-1.23	1.83	-13.4	17.3

Table R–1659. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.65E-07	-6.95E-04	6.95E-04	-6.72E-04	6.73E-04	-4.03E-02	4.03E-02
1/20	4.95E-07	-2.09E-03	2.09E-03	-2.02E-03	2.02E-03	-4.03E-02	4.03E-02
1/15	6.61E-07	-2.78E-03	2.78E-03	-2.69E-03	2.69E-03	-4.03E-02	4.03E-02
1/10	9.91E-07	-4.17E-03	4.17E-03	-4.03E-03	4.04E-03	-4.03E-02	4.03E-02

Table R–1660. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1661. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1662. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1663. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

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

Table R–1664. Minimum and Maximum of M_x^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_x^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_x^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_x^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.52E-05	-1.45E-02	2.00E-02	-2.82E-03	3.90E-03	-0.174	0.230
1/20	-1.09E-03	-4.02E-02	5.08E-02	-1.15E-02	5.46E-03	-0.209	0.131
1/15	-2.07E-03	-0.135	0.112	-1.79E-02	8.79E-03	-0.237	0.163
1/10	—	—	—	—	—	—	—

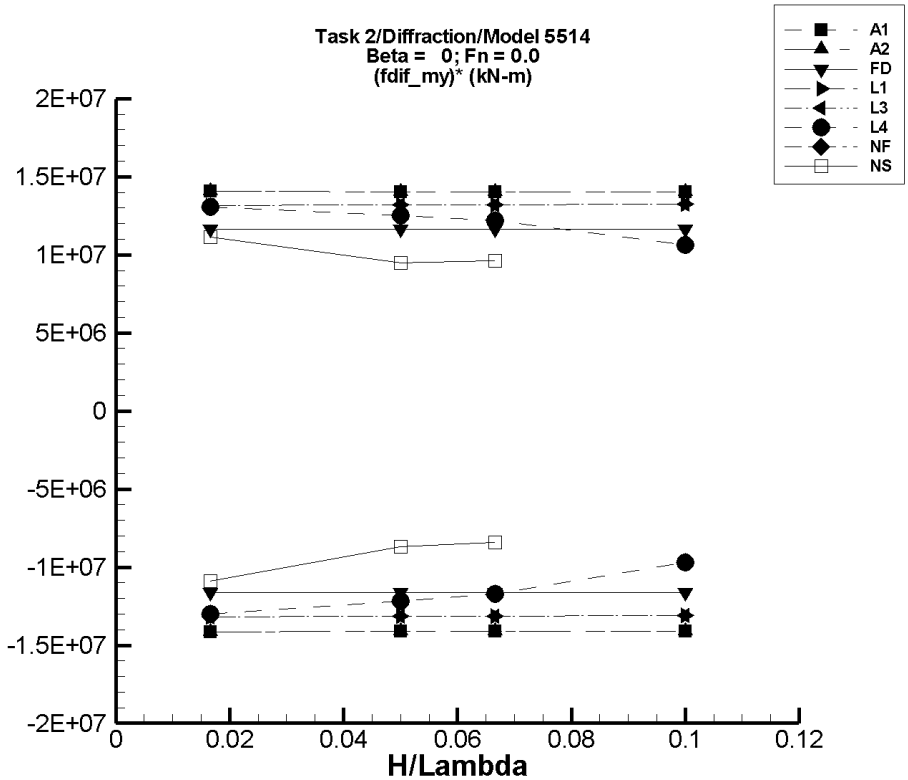

Figure R–209. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0.

Table R–1665. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	339.	-2.38E+05	2.38E+05	-2.36E+05	2.35E+05	-1.42E+07	1.41E+07
1/20	1.01E+03	-7.13E+05	7.11E+05	-7.05E+05	7.03E+05	-1.41E+07	1.40E+07
1/15	1.35E+03	-9.49E+05	9.46E+05	-9.39E+05	9.36E+05	-1.41E+07	1.40E+07
1/10	2.03E+03	-1.43E+06	1.42E+06	-1.41E+06	1.41E+06	-1.41E+07	1.40E+07

Table R–1666. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	339.	-2.38E+05	2.38E+05	-2.36E+05	2.35E+05	-1.42E+07	1.41E+07
1/20	1.01E+03	-7.13E+05	7.11E+05	-7.05E+05	7.03E+05	-1.41E+07	1.40E+07
1/15	1.35E+03	-9.49E+05	9.46E+05	-9.39E+05	9.36E+05	-1.41E+07	1.40E+07
1/10	2.03E+03	-1.43E+06	1.42E+06	-1.41E+06	1.41E+06	-1.41E+07	1.40E+07

Table R–1667. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	4.55	-1.96E+05	1.96E+05	-1.94E+05	1.94E+05	-1.16E+07	1.16E+07
1/20	13.6	-5.88E+05	5.88E+05	-5.82E+05	5.82E+05	-1.16E+07	1.16E+07
1/15	18.2	-7.84E+05	7.84E+05	-7.76E+05	7.76E+05	-1.16E+07	1.16E+07
1/10	27.2	-1.18E+06	1.18E+06	-1.16E+06	1.16E+06	-1.16E+07	1.16E+07

Table R–1668. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.73E+03	-2.23E+05	2.17E+05	-2.23E+05	2.16E+05	-1.32E+07	1.31E+07
1/20	-2.52E+04	-6.84E+05	6.37E+05	-6.83E+05	6.34E+05	-1.31E+07	1.32E+07
1/15	-4.50E+04	-9.22E+05	8.40E+05	-9.20E+05	8.36E+05	-1.31E+07	1.32E+07
1/10	-1.02E+05	-1.41E+06	1.23E+06	-1.41E+06	1.22E+06	-1.31E+07	1.33E+07

Table R–1669. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.73E+03	-2.23E+05	2.17E+05	-2.23E+05	2.16E+05	-1.32E+07	1.31E+07
1/20	-2.52E+04	-6.84E+05	6.37E+05	-6.83E+05	6.34E+05	-1.31E+07	1.32E+07
1/15	-4.50E+04	-9.22E+05	8.40E+05	-9.20E+05	8.36E+05	-1.31E+07	1.32E+07
1/10	-1.02E+05	-1.41E+06	1.23E+06	-1.41E+06	1.22E+06	-1.31E+07	1.33E+07

Table R–1670. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-97.9	-2.18E+05	2.19E+05	-2.17E+05	2.18E+05	-1.30E+07	1.31E+07
1/20	8.80E+03	-6.04E+05	6.44E+05	-5.99E+05	6.35E+05	-1.22E+07	1.25E+07
1/15	3.02E+04	-7.54E+05	8.59E+05	-7.50E+05	8.44E+05	-1.17E+07	1.22E+07
1/10	1.03E+05	-1.41E+06	2.03E+06	-8.66E+05	1.17E+06	-9.69E+06	1.06E+07

Table R–1671. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1672. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-4.39E+03	-1.87E+05	1.84E+05	-1.86E+05	1.82E+05	-1.09E+07	1.12E+07
1/20	-6.28E+03	-4.47E+05	4.76E+05	-4.41E+05	4.68E+05	-8.69E+06	9.49E+06
1/15	-8.13E+03	-5.75E+05	6.41E+05	-5.70E+05	6.32E+05	-8.43E+06	9.60E+06
1/10	—	—	—	—	—	—	—

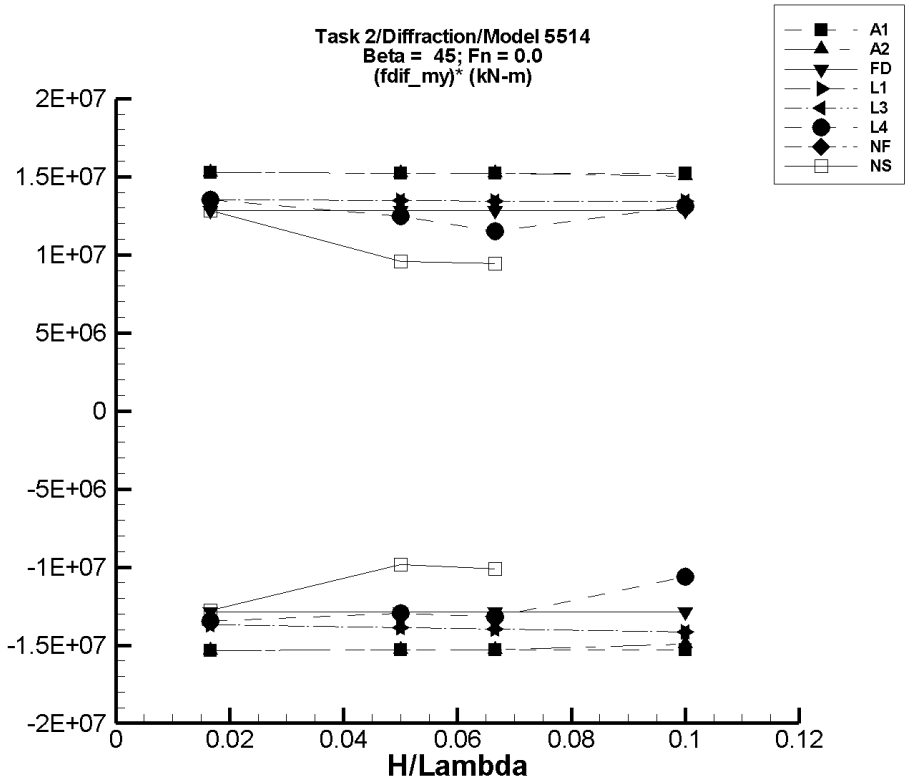

Figure R–210. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1673. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	280.	-2.58E+05	2.58E+05	-2.55E+05	2.55E+05	-1.53E+07	1.53E+07
1/20	836.	-7.72E+05	7.71E+05	-7.64E+05	7.63E+05	-1.53E+07	1.52E+07
1/15	1.11E+03	-1.03E+06	1.03E+06	-1.02E+06	1.02E+06	-1.53E+07	1.52E+07
1/10	1.67E+03	-1.54E+06	1.54E+06	-1.53E+06	1.53E+06	-1.53E+07	1.52E+07

Table R–1674. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	280.	-2.58E+05	2.58E+05	-2.55E+05	2.55E+05	-1.53E+07	1.53E+07
1/20	836.	-7.72E+05	7.71E+05	-7.64E+05	7.63E+05	-1.53E+07	1.52E+07
1/15	1.11E+03	-1.03E+06	1.03E+06	-1.02E+06	1.02E+06	-1.53E+07	1.52E+07
1/10	1.30E+04	-1.50E+06	1.51E+06	-1.48E+06	1.52E+06	-1.49E+07	1.50E+07

Table R–1675. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	6.13	-2.17E+05	2.17E+05	-2.14E+05	2.14E+05	-1.29E+07	1.29E+07
1/20	18.4	-6.50E+05	6.50E+05	-6.43E+05	6.43E+05	-1.29E+07	1.29E+07
1/15	24.5	-8.67E+05	8.66E+05	-8.58E+05	8.57E+05	-1.29E+07	1.29E+07
1/10	36.8	-1.30E+06	1.30E+06	-1.29E+06	1.29E+06	-1.29E+07	1.29E+07

Table R–1676. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.20E+03	-2.30E+05	2.25E+05	-2.30E+05	2.24E+05	-1.37E+07	1.35E+07
1/20	-1.07E+04	-7.06E+05	6.65E+05	-7.04E+05	6.62E+05	-1.39E+07	1.35E+07
1/15	-1.89E+04	-9.52E+05	8.80E+05	-9.49E+05	8.77E+05	-1.39E+07	1.34E+07
1/10	-4.24E+04	-1.46E+06	1.31E+06	-1.46E+06	1.30E+06	-1.41E+07	1.34E+07

Table R–1677. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.20E+03	-2.30E+05	2.25E+05	-2.30E+05	2.24E+05	-1.37E+07	1.35E+07
1/20	-1.07E+04	-7.06E+05	6.65E+05	-7.04E+05	6.62E+05	-1.39E+07	1.35E+07
1/15	-1.89E+04	-9.52E+05	8.80E+05	-9.49E+05	8.77E+05	-1.39E+07	1.34E+07
1/10	-4.24E+04	-1.46E+06	1.31E+06	-1.46E+06	1.30E+06	-1.41E+07	1.34E+07

Table R–1678. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.30E+03	-2.23E+05	2.29E+05	-2.22E+05	2.28E+05	-1.34E+07	1.35E+07
1/20	3.22E+04	-6.21E+05	7.10E+05	-6.16E+05	6.56E+05	-1.30E+07	1.25E+07
1/15	7.16E+04	-8.16E+05	9.17E+05	-8.08E+05	8.37E+05	-1.32E+07	1.15E+07
1/10	7.55E+04	-1.46E+06	1.41E+06	-9.84E+05	1.39E+06	-1.06E+07	1.31E+07

Table R–1679. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1680. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.73E+03	-2.19E+05	2.12E+05	-2.16E+05	2.10E+05	-1.28E+07	1.28E+07
1/20	4.80E+03	-4.93E+05	4.89E+05	-4.87E+05	4.83E+05	-9.83E+06	9.56E+06
1/15	1.19E+04	-6.71E+05	6.52E+05	-6.64E+05	6.42E+05	-1.01E+07	9.44E+06
1/10	—	—	—	—	—	—	—

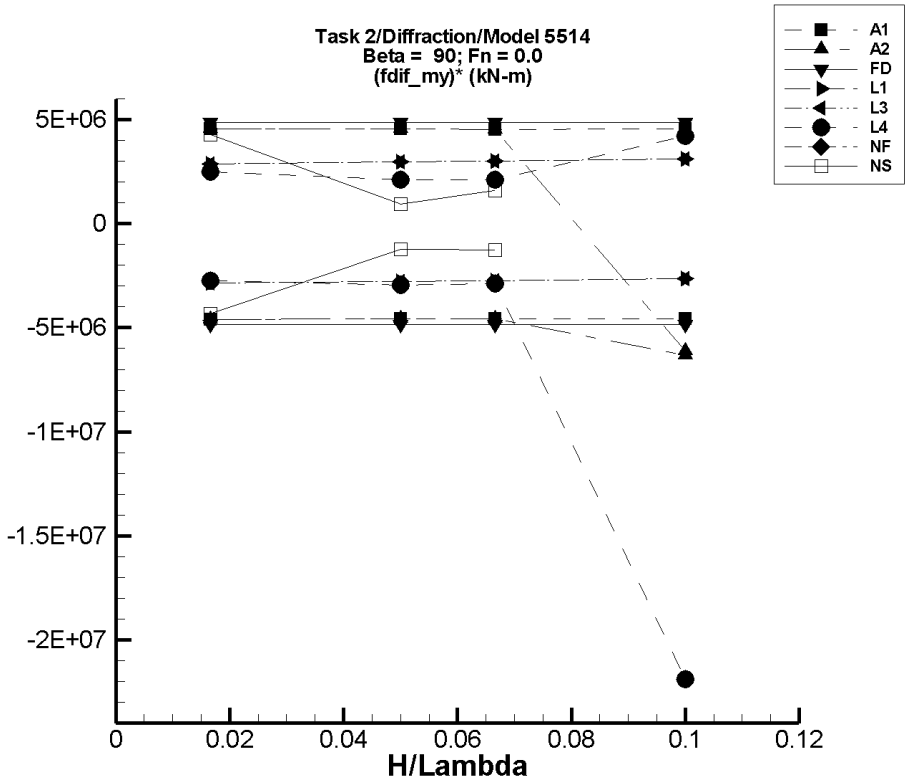

Figure R–211. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1681. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-262.	-8.05E+04	7.85E+04	-7.69E+04	7.55E+04	-4.60E+06	4.55E+06
1/20	-785.	-2.41E+05	2.35E+05	-2.30E+05	2.26E+05	-4.59E+06	4.54E+06
1/15	-1.05E+03	-3.20E+05	3.13E+05	-3.06E+05	3.01E+05	-4.58E+06	4.53E+06
1/10	-1.57E+03	-4.81E+05	4.70E+05	-4.60E+05	4.52E+05	-4.59E+06	4.54E+06

Table R–1682. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-262.	-8.05E+04	7.85E+04	-7.69E+04	7.55E+04	-4.60E+06	4.55E+06
1/20	-785.	-2.41E+05	2.35E+05	-2.30E+05	2.26E+05	-4.59E+06	4.54E+06
1/15	-1.05E+03	-3.20E+05	3.13E+05	-3.06E+05	3.01E+05	-4.58E+06	4.53E+06
1/10	2.91E+05	-3.40E+05	-3.19E+05	-3.40E+05	-3.19E+05	-6.32E+06	-6.10E+06

Table R–1683. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.61	-8.19E+04	8.19E+04	-8.10E+04	8.10E+04	-4.86E+06	4.86E+06
1/20	4.83	-2.46E+05	2.46E+05	-2.43E+05	2.43E+05	-4.86E+06	4.86E+06
1/15	6.45	-3.28E+05	3.28E+05	-3.24E+05	3.24E+05	-4.86E+06	4.86E+06
1/10	9.68	-4.92E+05	4.91E+05	-4.86E+05	4.86E+05	-4.86E+06	4.86E+06

Table R–1684. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-949.	-4.89E+04	4.71E+04	-4.87E+04	4.69E+04	-2.87E+06	2.87E+06
1/20	-7.74E+03	-1.47E+05	1.41E+05	-1.47E+05	1.40E+05	-2.78E+06	2.96E+06
1/15	-1.36E+04	-1.97E+05	1.88E+05	-1.96E+05	1.87E+05	-2.74E+06	3.01E+06
1/10	-3.02E+04	-2.97E+05	2.81E+05	-2.96E+05	2.80E+05	-2.66E+06	3.10E+06

Table R–1685. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-949.	-4.89E+04	4.71E+04	-4.87E+04	4.69E+04	-2.87E+06	2.87E+06
1/20	-7.74E+03	-1.47E+05	1.41E+05	-1.47E+05	1.40E+05	-2.78E+06	2.96E+06
1/15	-1.36E+04	-1.97E+05	1.88E+05	-1.96E+05	1.87E+05	-2.74E+06	3.01E+06
1/10	-3.02E+04	-2.97E+05	2.81E+05	-2.96E+05	2.80E+05	-2.66E+06	3.10E+06

Table R–1686. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.60E+03	-5.31E+04	4.30E+04	-4.86E+04	3.90E+04	-2.76E+06	2.50E+06
1/20	-1.93E+04	-1.77E+05	1.08E+05	-1.67E+05	8.65E+04	-2.95E+06	2.12E+06
1/15	-2.53E+04	-2.31E+05	1.51E+05	-2.18E+05	1.14E+05	-2.89E+06	2.09E+06
1/10	-2.31E+05	-7.07E+06	1.70E+06	-2.42E+06	1.90E+05	-2.19E+07	4.21E+06

Table R–1687. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1688. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.88E+03	-7.65E+04	6.98E+04	-7.48E+04	6.86E+04	-4.32E+06	4.29E+06
1/20	1.64E+04	-5.02E+04	6.63E+04	-4.53E+04	6.31E+04	-1.23E+06	9.33E+05
1/15	3.15E+04	-6.43E+04	1.58E+05	-5.41E+04	1.38E+05	-1.28E+06	1.60E+06
1/10	—	—	—	—	—	—	—

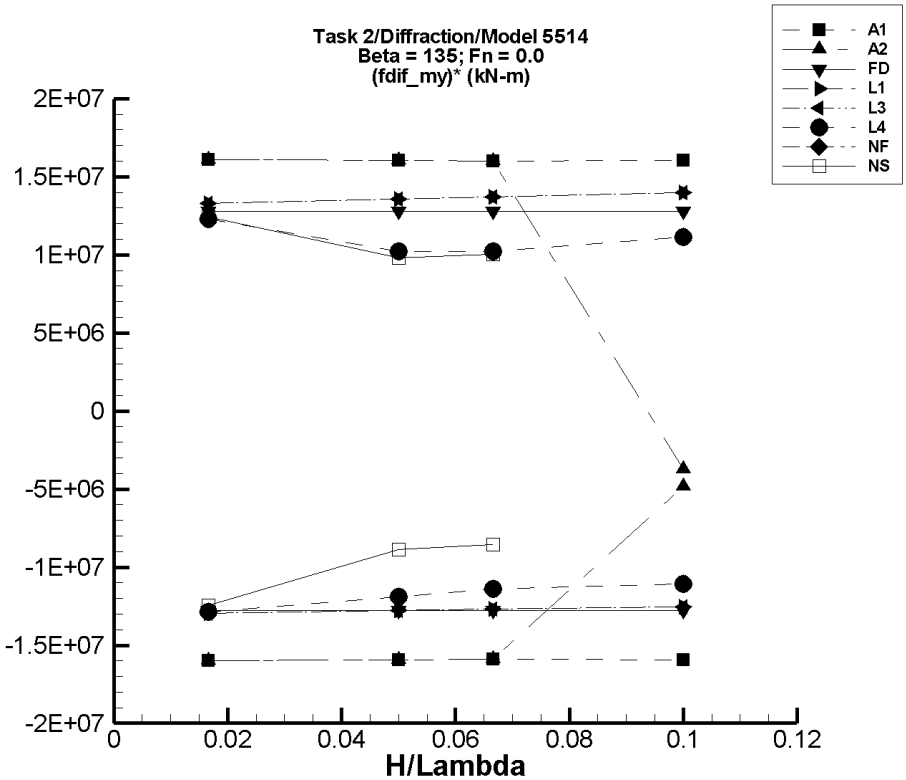

Figure R–212. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1689. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-559.	-2.70E+05	2.70E+05	-2.67E+05	2.67E+05	-1.60E+07	1.61E+07
1/20	-1.67E+03	-8.08E+05	8.08E+05	-7.99E+05	8.00E+05	-1.59E+07	1.60E+07
1/15	-2.23E+03	-1.08E+06	1.08E+06	-1.06E+06	1.06E+06	-1.59E+07	1.60E+07
1/10	-3.35E+03	-1.62E+06	1.62E+06	-1.60E+06	1.60E+06	-1.59E+07	1.60E+07

Table R–1690. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-559.	-2.70E+05	2.70E+05	-2.67E+05	2.67E+05	-1.60E+07	1.61E+07
1/20	-1.67E+03	-8.08E+05	8.08E+05	-7.99E+05	8.00E+05	-1.59E+07	1.60E+07
1/15	-2.23E+03	-1.08E+06	1.08E+06	-1.06E+06	1.06E+06	-1.59E+07	1.60E+07
1/10	6.75E+05	1.92E+05	3.03E+05	1.92E+05	3.03E+05	-4.83E+06	-3.72E+06

Table R–1691. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.54	-2.15E+05	2.15E+05	-2.13E+05	2.13E+05	-1.28E+07	1.28E+07
1/20	-19.6	-6.45E+05	6.46E+05	-6.38E+05	6.38E+05	-1.28E+07	1.28E+07
1/15	-26.2	-8.61E+05	8.61E+05	-8.51E+05	8.51E+05	-1.28E+07	1.28E+07
1/10	-39.1	-1.29E+06	1.29E+06	-1.28E+06	1.28E+06	-1.28E+07	1.28E+07

Table R–1692. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.16E+03	-2.18E+05	2.21E+05	-2.17E+05	2.20E+05	-1.30E+07	1.33E+07
1/20	-9.45E+03	-6.50E+05	6.71E+05	-6.47E+05	6.68E+05	-1.28E+07	1.36E+07
1/15	-1.66E+04	-8.65E+05	9.00E+05	-8.62E+05	8.96E+05	-1.27E+07	1.37E+07
1/10	-3.68E+04	-1.30E+06	1.37E+06	-1.29E+06	1.36E+06	-1.26E+07	1.40E+07

Table R–1693. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.16E+03	-2.18E+05	2.21E+05	-2.17E+05	2.20E+05	-1.30E+07	1.33E+07
1/20	-9.45E+03	-6.50E+05	6.71E+05	-6.47E+05	6.68E+05	-1.28E+07	1.36E+07
1/15	-1.66E+04	-8.65E+05	9.00E+05	-8.62E+05	8.96E+05	-1.27E+07	1.37E+07
1/10	-3.68E+04	-1.30E+06	1.37E+06	-1.29E+06	1.36E+06	-1.26E+07	1.40E+07

Table R–1694. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.18E+03	-2.23E+05	1.98E+05	-2.21E+05	1.97E+05	-1.28E+07	1.23E+07
1/20	-7.77E+04	-6.78E+05	4.49E+05	-6.73E+05	4.33E+05	-1.19E+07	1.02E+07
1/15	-1.32E+05	-8.99E+05	5.68E+05	-8.91E+05	5.49E+05	-1.14E+07	1.02E+07
1/10	-2.62E+05	-1.38E+06	1.25E+06	-1.37E+06	8.53E+05	-1.11E+07	1.11E+07

Table R–1695. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1696. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.44E+03	-2.12E+05	2.07E+05	-2.10E+05	2.04E+05	-1.25E+07	1.24E+07
1/20	7.60E+03	-4.43E+05	5.06E+05	-4.35E+05	4.98E+05	-8.86E+06	9.82E+06
1/15	1.48E+04	-5.70E+05	6.95E+05	-5.56E+05	6.85E+05	-8.56E+06	1.01E+07
1/10	—	—	—	—	—	—	—

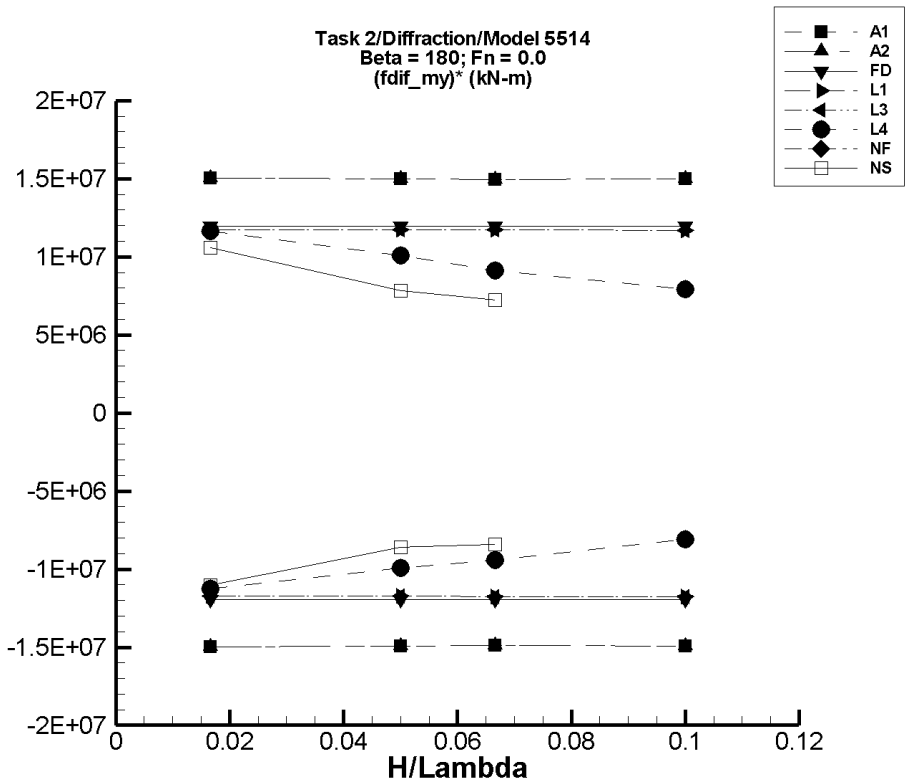

Figure R–213. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1697. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	Unfiltered M_y^{dif}		Filtered M_y^{dif}		Filtered $\left(M_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-471.	-2.53E+05	2.53E+05	-2.50E+05	2.50E+05	-1.50E+07	1.50E+07
1/20	-1.41E+03	-7.56E+05	7.56E+05	-7.48E+05	7.48E+05	-1.49E+07	1.50E+07
1/15	-1.88E+03	-1.01E+06	1.01E+06	-9.95E+05	9.96E+05	-1.49E+07	1.50E+07
1/10	-2.82E+03	-1.51E+06	1.51E+06	-1.50E+06	1.50E+06	-1.49E+07	1.50E+07

Table R–1698. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	Unfiltered M_y^{dif}		Filtered M_y^{dif}		Filtered $\left(M_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	-471.	-2.53E+05	2.53E+05	-2.50E+05	2.50E+05	-1.50E+07	1.50E+07
1/20	-1.41E+03	-7.56E+05	7.56E+05	-7.48E+05	7.48E+05	-1.49E+07	1.50E+07
1/15	-1.88E+03	-1.01E+06	1.01E+06	-9.95E+05	9.96E+05	-1.49E+07	1.50E+07
1/10	-2.82E+03	-1.51E+06	1.51E+06	-1.50E+06	1.50E+06	-1.49E+07	1.50E+07

Table R–1699. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.76	-2.02E+05	2.02E+05	-1.99E+05	1.99E+05	-1.20E+07	1.20E+07
1/20	-20.3	-6.05E+05	6.05E+05	-5.98E+05	5.98E+05	-1.20E+07	1.20E+07
1/15	-27.0	-8.07E+05	8.07E+05	-7.98E+05	7.98E+05	-1.20E+07	1.20E+07
1/10	-40.5	-1.21E+06	1.21E+06	-1.20E+06	1.20E+06	-1.20E+07	1.20E+07

Table R–1700. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-306.	-1.96E+05	1.96E+05	-1.95E+05	1.96E+05	-1.17E+07	1.17E+07
1/20	-2.10E+03	-5.91E+05	5.87E+05	-5.89E+05	5.84E+05	-1.17E+07	1.17E+07
1/15	-3.58E+03	-7.90E+05	7.81E+05	-7.86E+05	7.77E+05	-1.17E+07	1.17E+07
1/10	-7.72E+03	-1.19E+06	1.17E+06	-1.19E+06	1.16E+06	-1.18E+07	1.17E+07

Table R–1701. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-306.	-1.96E+05	1.96E+05	-1.95E+05	1.96E+05	-1.17E+07	1.17E+07
1/20	-2.10E+03	-5.91E+05	5.87E+05	-5.89E+05	5.84E+05	-1.17E+07	1.17E+07
1/15	-3.58E+03	-7.90E+05	7.81E+05	-7.86E+05	7.77E+05	-1.17E+07	1.17E+07
1/10	-7.72E+03	-1.19E+06	1.17E+06	-1.19E+06	1.16E+06	-1.18E+07	1.17E+07

Table R–1702. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.58E+03	-1.96E+05	1.87E+05	-1.95E+05	1.86E+05	-1.12E+07	1.16E+07
1/20	-7.62E+04	-5.77E+05	4.51E+05	-5.73E+05	4.29E+05	-9.93E+06	1.01E+07
1/15	-1.25E+05	-7.60E+05	5.38E+05	-7.52E+05	4.82E+05	-9.41E+06	9.10E+06
1/10	-2.08E+05	-1.04E+06	1.48E+06	-1.02E+06	5.84E+05	-8.10E+06	7.91E+06

Table R–1703. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1704. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-3.37E+03	-1.89E+05	1.74E+05	-1.87E+05	1.73E+05	-1.10E+07	1.06E+07
1/20	-4.70E+03	-4.41E+05	3.92E+05	-4.35E+05	3.88E+05	-8.60E+06	7.85E+06
1/15	-7.75E+03	-5.76E+05	4.79E+05	-5.70E+05	4.76E+05	-8.43E+06	7.26E+06
1/10	—	—	—	—	—	—	—

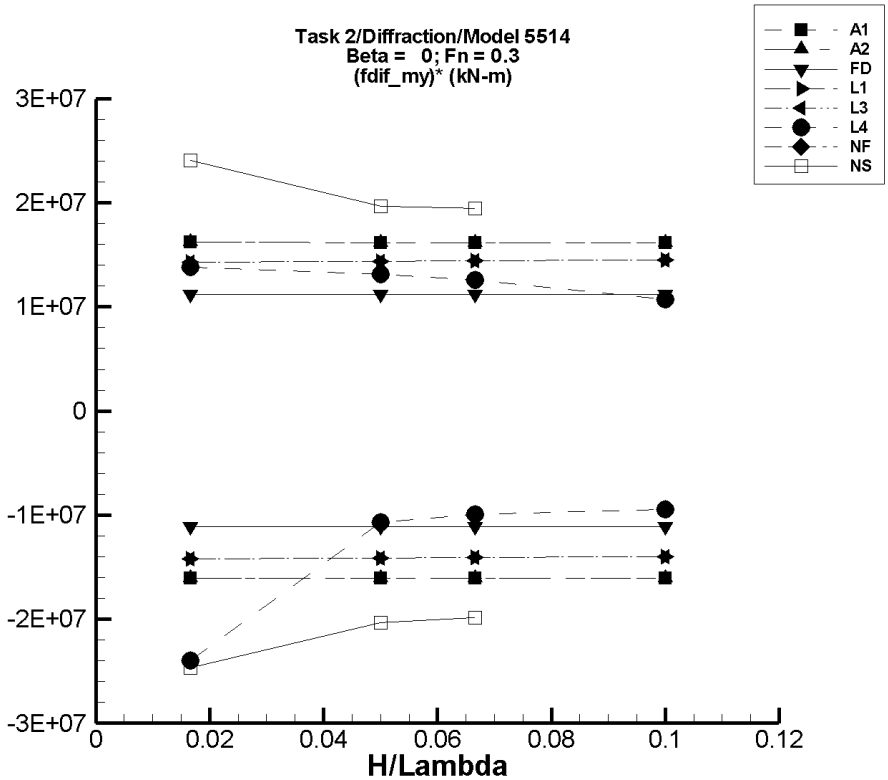

Figure R–214. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.3.

Table R–1705. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-55.4	-2.69E+05	2.70E+05	-2.68E+05	2.70E+05	-1.61E+07	1.62E+07
1/20	-166.	-8.03E+05	8.08E+05	-8.03E+05	8.07E+05	-1.61E+07	1.61E+07
1/15	-221.	-1.07E+06	1.08E+06	-1.07E+06	1.07E+06	-1.60E+07	1.61E+07
1/10	-331.	-1.61E+06	1.62E+06	-1.61E+06	1.61E+06	-1.61E+07	1.61E+07

Table R–1706. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-55.4	-2.69E+05	2.70E+05	-2.68E+05	2.70E+05	-1.61E+07	1.62E+07
1/20	-166.	-8.03E+05	8.08E+05	-8.03E+05	8.07E+05	-1.61E+07	1.61E+07
1/15	-221.	-1.07E+06	1.08E+06	-1.07E+06	1.07E+06	-1.60E+07	1.61E+07
1/10	-331.	-1.61E+06	1.62E+06	-1.61E+06	1.61E+06	-1.61E+07	1.61E+07

Table R–1707. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-396.	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05	-1.11E+07	1.12E+07
1/20	-1.19E+03	-5.58E+05	5.58E+05	-5.58E+05	5.58E+05	-1.11E+07	1.12E+07
1/15	-1.58E+03	-7.45E+05	7.45E+05	-7.44E+05	7.44E+05	-1.11E+07	1.12E+07
1/10	-2.37E+03	-1.12E+06	1.12E+06	-1.12E+06	1.12E+06	-1.11E+07	1.12E+07

Table R–1708. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	4.37E+04	-1.93E+05	2.82E+05	-1.93E+05	2.82E+05	-1.42E+07	1.43E+07
1/20	4.83E+04	-6.57E+05	7.68E+05	-6.57E+05	7.68E+05	-1.41E+07	1.44E+07
1/15	5.26E+04	-8.85E+05	1.02E+06	-8.85E+05	1.01E+06	-1.41E+07	1.44E+07
1/10	6.53E+04	-1.33E+06	1.52E+06	-1.33E+06	1.52E+06	-1.40E+07	1.45E+07

Table R–1709. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.38E+04	-1.93E+05	2.82E+05	-1.93E+05	2.82E+05	-1.42E+07	1.43E+07
1/20	4.84E+04	-6.57E+05	7.68E+05	-6.57E+05	7.68E+05	-1.41E+07	1.44E+07
1/15	5.28E+04	-8.85E+05	1.02E+06	-8.85E+05	1.01E+06	-1.41E+07	1.44E+07
1/10	6.56E+04	-1.33E+06	1.52E+06	-1.33E+06	1.52E+06	-1.40E+07	1.45E+07

Table R–1710. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.52E+04	-3.73E+05	2.68E+05	-3.64E+05	2.65E+05	-2.39E+07	1.38E+07
1/20	-2.31E+04	-6.12E+05	6.45E+05	-5.59E+05	6.35E+05	-1.07E+07	1.32E+07
1/15	-4.62E+04	-8.65E+05	8.06E+05	-7.10E+05	7.93E+05	-9.95E+06	1.26E+07
1/10	-3.01E+04	-1.77E+06	1.55E+06	-9.77E+05	1.04E+06	-9.47E+06	1.07E+07

Table R–1711. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1712. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $0°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.43E+04	-3.91E+05	4.29E+05	-3.87E+05	4.25E+05	-2.47E+07	2.40E+07
1/20	6.64E+04	-9.61E+05	1.06E+06	-9.50E+05	1.05E+06	-2.03E+07	1.97E+07
1/15	6.29E+04	-1.27E+06	1.37E+06	-1.26E+06	1.36E+06	-1.99E+07	1.95E+07
1/10	—	—	—	—	—	—	—

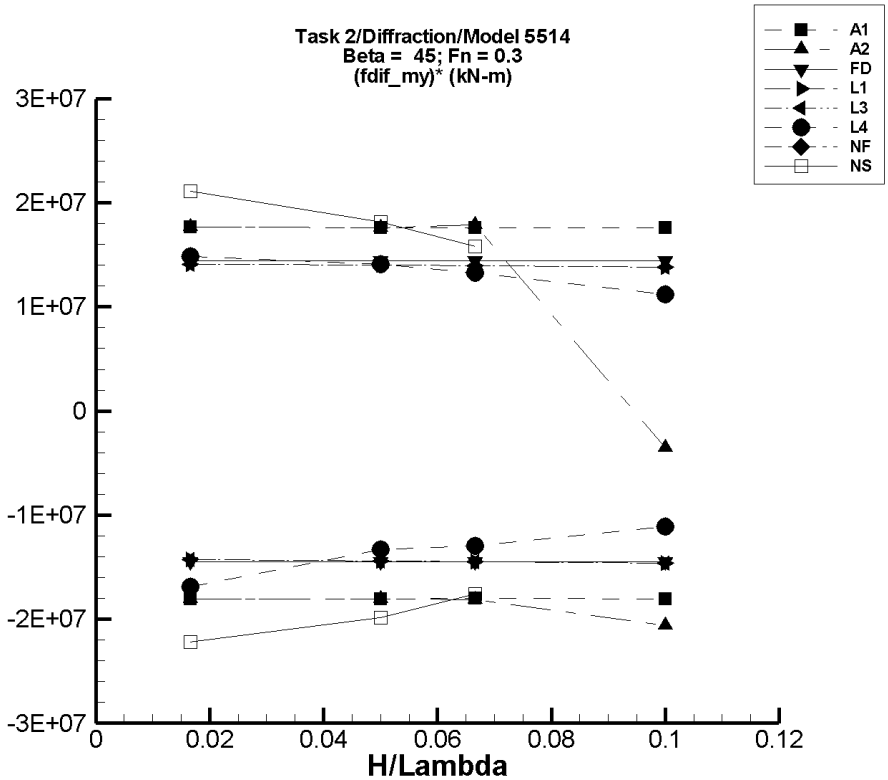

Figure R–215. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1713. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.62E+03	-3.01E+05	2.97E+05	-3.00E+05	2.96E+05	-1.81E+07	1.77E+07
1/20	4.83E+03	-8.99E+05	8.88E+05	-8.97E+05	8.86E+05	-1.80E+07	1.76E+07
1/15	6.44E+03	-1.20E+06	1.18E+06	-1.19E+06	1.18E+06	-1.80E+07	1.76E+07
1/10	9.67E+03	-1.80E+06	1.78E+06	-1.79E+06	1.77E+06	-1.80E+07	1.76E+07

Table R–1714. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.62E+03	-3.01E+05	2.97E+05	-3.00E+05	2.96E+05	-1.81E+07	1.77E+07
1/20	4.83E+03	-8.99E+05	8.88E+05	-8.97E+05	8.86E+05	-1.80E+07	1.76E+07
1/15	-4.14E+03	-1.21E+06	1.19E+06	-1.21E+06	1.19E+06	-1.81E+07	1.79E+07
1/10	1.84E+06	-2.23E+05	1.47E+06	-2.17E+05	1.49E+06	-2.06E+07	-3.57E+06

Table R–1715. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	356.	-2.42E+05	2.42E+05	-2.41E+05	2.41E+05	-1.45E+07	1.44E+07
1/20	1.07E+03	-7.25E+05	7.25E+05	-7.24E+05	7.23E+05	-1.45E+07	1.44E+07
1/15	1.43E+03	-9.67E+05	9.67E+05	-9.65E+05	9.65E+05	-1.45E+07	1.44E+07
1/10	2.14E+03	-1.45E+06	1.45E+06	-1.45E+06	1.45E+06	-1.45E+07	1.44E+07

Table R–1716. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.14E+04	-1.97E+05	2.77E+05	-1.97E+05	2.77E+05	-1.43E+07	1.41E+07
1/20	2.39E+04	-6.98E+05	7.24E+05	-6.97E+05	7.24E+05	-1.44E+07	1.40E+07
1/15	8.57E+03	-9.59E+05	9.39E+05	-9.58E+05	9.38E+05	-1.45E+07	1.39E+07
1/10	-3.51E+04	-1.50E+06	1.35E+06	-1.50E+06	1.35E+06	-1.46E+07	1.38E+07

Table R–1717. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.14E+04	-1.97E+05	2.77E+05	-1.97E+05	2.77E+05	-1.43E+07	1.41E+07
1/20	2.38E+04	-6.98E+05	7.24E+05	-6.97E+05	7.24E+05	-1.44E+07	1.40E+07
1/15	8.53E+03	-9.59E+05	9.39E+05	-9.58E+05	9.38E+05	-1.45E+07	1.39E+07
1/10	-3.51E+04	-1.50E+06	1.35E+06	-1.50E+06	1.35E+06	-1.46E+07	1.38E+07

Table R–1718. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.47E+04	-2.51E+05	2.83E+05	-2.47E+05	2.82E+05	-1.69E+07	1.49E+07
1/20	2.13E+04	-6.60E+05	7.28E+05	-6.45E+05	7.27E+05	-1.33E+07	1.41E+07
1/15	3.32E+04	-8.81E+05	9.26E+05	-8.31E+05	9.18E+05	-1.30E+07	1.33E+07
1/10	8.37E+04	-2.91E+06	1.37E+06	-1.03E+06	1.21E+06	-1.11E+07	1.12E+07

Table R–1719. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1720. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.44E+04	-3.49E+05	3.80E+05	-3.45E+05	3.76E+05	-2.22E+07	2.11E+07
1/20	3.76E+04	-9.65E+05	9.58E+05	-9.54E+05	9.46E+05	-1.98E+07	1.82E+07
1/15	7.20E+04	-1.11E+06	1.14E+06	-1.10E+06	1.12E+06	-1.76E+07	1.58E+07
1/10	—	—	—	—	—	—	—

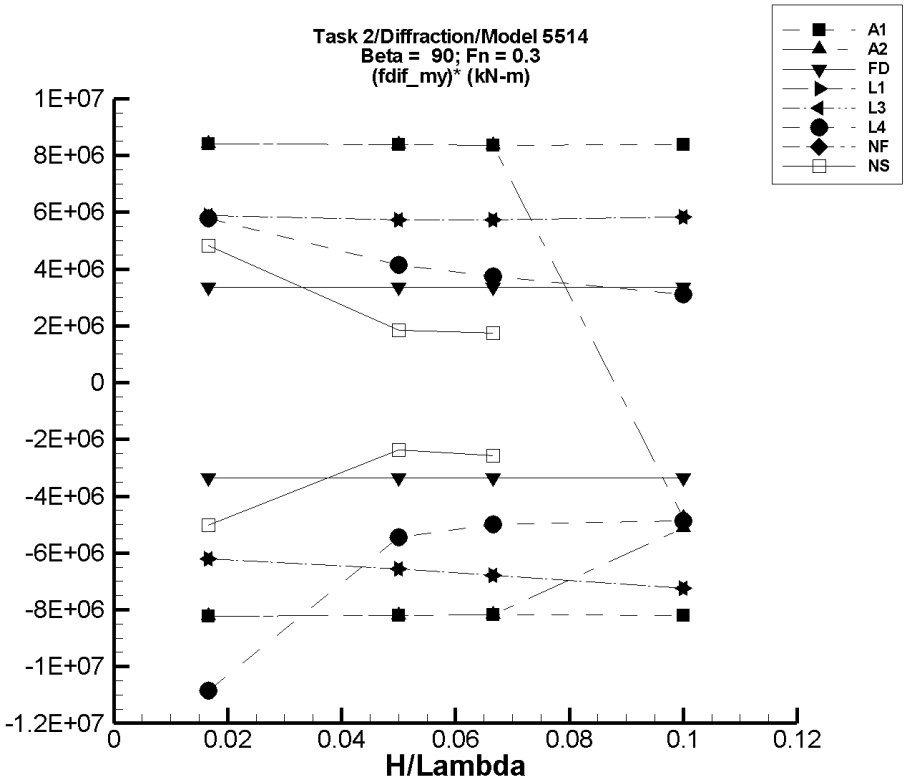

Figure R–216. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1721. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	537.	-1.46E+05	1.43E+05	-1.36E+05	1.40E+05	-8.22E+06	8.40E+06
1/20	1.61E+03	-4.37E+05	4.28E+05	-4.08E+05	4.20E+05	-8.19E+06	8.37E+06
1/15	2.14E+03	-5.82E+05	5.70E+05	-5.43E+05	5.60E+05	-8.18E+06	8.36E+06
1/10	3.21E+03	-8.74E+05	8.56E+05	-8.16E+05	8.40E+05	-8.19E+06	8.37E+06

Table R–1722. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	537.	-1.46E+05	1.43E+05	-1.36E+05	1.40E+05	-8.22E+06	8.40E+06
1/20	1.61E+03	-4.37E+05	4.28E+05	-4.08E+05	4.20E+05	-8.19E+06	8.37E+06
1/15	2.14E+03	-5.82E+05	5.70E+05	-5.43E+05	5.60E+05	-8.18E+06	8.36E+06
1/10	-2.31E+05	-7.44E+05	-7.07E+05	-7.44E+05	-7.07E+05	-5.13E+06	-4.76E+06

Table R–1723. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	1.91	-5.65E+04	5.65E+04	-5.59E+04	5.59E+04	-3.36E+06	3.36E+06
1/20	5.72	-1.70E+05	1.70E+05	-1.68E+05	1.68E+05	-3.36E+06	3.36E+06
1/15	7.64	-2.26E+05	2.26E+05	-2.24E+05	2.24E+05	-3.36E+06	3.36E+06
1/10	11.4	-3.39E+05	3.39E+05	-3.36E+05	3.36E+05	-3.36E+06	3.36E+06

Table R–1724. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	4.07E+04	-6.30E+04	1.39E+05	-6.26E+04	1.39E+05	-6.20E+06	5.89E+06
1/20	1.89E+04	-3.11E+05	3.07E+05	-3.10E+05	3.06E+05	-6.57E+06	5.73E+06
1/15	-190.	-4.55E+05	3.83E+05	-4.52E+05	3.82E+05	-6.78E+06	5.73E+06
1/10	-5.45E+04	-7.82E+05	5.33E+05	-7.78E+05	5.30E+05	-7.23E+06	5.84E+06

Table R–1725. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.07E+04	-6.30E+04	1.39E+05	-6.26E+04	1.39E+05	-6.20E+06	5.89E+06
1/20	1.89E+04	-3.11E+05	3.07E+05	-3.10E+05	3.06E+05	-6.57E+06	5.73E+06
1/15	-196.	-4.55E+05	3.83E+05	-4.52E+05	3.82E+05	-6.78E+06	5.73E+06
1/10	-5.45E+04	-7.82E+05	5.33E+05	-7.78E+05	5.30E+05	-7.23E+06	5.84E+06

Table R–1726. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	3.28E+04	-1.52E+05	1.38E+05	-1.48E+05	1.29E+05	-1.08E+07	5.77E+06
1/20	-4.43E+04	-3.21E+05	1.90E+05	-3.16E+05	1.62E+05	-5.44E+06	4.13E+06
1/15	-7.47E+04	-4.16E+05	1.85E+05	-4.07E+05	1.74E+05	-4.98E+06	3.72E+06
1/10	-8.75E+04	-2.52E+06	9.05E+05	-5.75E+05	2.24E+05	-4.87E+06	3.12E+06

Table R–1727. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1728. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	878.	-8.47E+04	8.27E+04	-8.30E+04	8.11E+04	-5.03E+06	4.81E+06
1/20	1.05E+04	-1.15E+05	1.07E+05	-1.08E+05	1.02E+05	-2.37E+06	1.84E+06
1/15	1.14E+04	-1.72E+05	1.33E+05	-1.60E+05	1.28E+05	-2.57E+06	1.75E+06
1/10	—	—	—	—	—	—	—

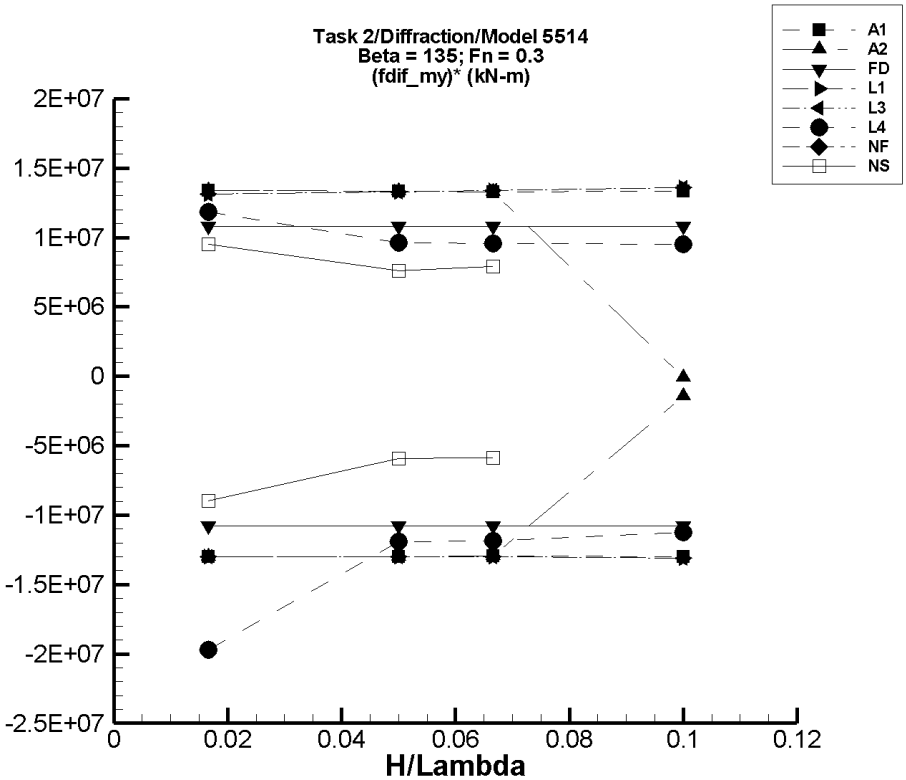

Figure R–217. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1729. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.20E+03	-2.24E+05	2.28E+05	-2.18E+05	2.21E+05	-1.30E+07	1.34E+07
1/20	-3.59E+03	-6.69E+05	6.82E+05	-6.52E+05	6.63E+05	-1.30E+07	1.33E+07
1/15	-4.77E+03	-8.91E+05	9.08E+05	-8.69E+05	8.82E+05	-1.30E+07	1.33E+07
1/10	-7.17E+03	-1.34E+06	1.36E+06	-1.30E+06	1.33E+06	-1.30E+07	1.33E+07

Table R–1730. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.20E+03	-2.24E+05	2.28E+05	-2.18E+05	2.21E+05	-1.30E+07	1.34E+07
1/20	-3.59E+03	-6.69E+05	6.82E+05	-6.52E+05	6.63E+05	-1.30E+07	1.33E+07
1/15	-4.77E+03	-8.91E+05	9.08E+05	-8.69E+05	8.82E+05	-1.30E+07	1.33E+07
1/10	3.10E+04	-1.12E+05	2.31E+04	-1.12E+05	2.31E+04	-1.43E+06	-7.87E+04

Table R–1731. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	35.9	-1.84E+05	1.84E+05	-1.79E+05	1.80E+05	-1.08E+07	1.08E+07
1/20	108.	-5.52E+05	5.52E+05	-5.38E+05	5.39E+05	-1.08E+07	1.08E+07
1/15	144.	-7.36E+05	7.36E+05	-7.17E+05	7.19E+05	-1.08E+07	1.08E+07
1/10	216.	-1.10E+06	1.10E+06	-1.08E+06	1.08E+06	-1.08E+07	1.08E+07

Table R–1732. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
	$\langle M_y^{\text{dif}} \rangle$	**Unfiltered** M_y^{dif}		**Filtered** M_y^{dif}		**Filtered** $\left(M_y^{\text{dif}}\right)^*$	
H/λ	**Mean (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**	**Min. (kN-m)**	**Max. (kN-m)**
1/60	4.23E+04	-1.77E+05	2.63E+05	-1.75E+05	2.61E+05	-1.30E+07	1.31E+07
1/20	3.14E+04	-6.25E+05	6.99E+05	-6.19E+05	6.95E+05	-1.30E+07	1.33E+07
1/15	2.20E+04	-8.54E+05	9.18E+05	-8.46E+05	9.14E+05	-1.30E+07	1.34E+07
1/10	-4.64E+03	-1.33E+06	1.36E+06	-1.31E+06	1.36E+06	-1.31E+07	1.36E+07

Table R–1733. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
	$\langle M_y^{\text{dif}} \rangle$	Unfiltered M_y^{dif}		Filtered M_y^{dif}		Filtered $\left(M_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	4.23E+04	-1.77E+05	2.63E+05	-1.75E+05	2.61E+05	-1.30E+07	1.31E+07
1/20	3.14E+04	-6.25E+05	6.99E+05	-6.19E+05	6.95E+05	-1.30E+07	1.33E+07
1/15	2.20E+04	-8.54E+05	9.18E+05	-8.46E+05	9.14E+05	-1.30E+07	1.34E+07
1/10	-4.62E+03	-1.33E+06	1.36E+06	-1.31E+06	1.36E+06	-1.31E+07	1.36E+07

Table R–1734. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
	$\langle M_y^{\text{dif}} \rangle$	Unfiltered M_y^{dif}		Filtered M_y^{dif}		Filtered $\left(M_y^{\text{dif}}\right)^*$	
H/λ	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)
1/60	2.34E+04	-3.26E+05	2.35E+05	-3.05E+05	2.20E+05	-1.97E+07	1.18E+07
1/20	-9.20E+04	-6.98E+05	4.03E+05	-6.88E+05	3.88E+05	-1.19E+07	9.60E+06
1/15	-1.52E+05	-9.58E+05	4.96E+05	-9.44E+05	4.86E+05	-1.19E+07	9.56E+06
1/10	-2.09E+05	-1.37E+06	1.64E+06	-1.33E+06	7.43E+05	-1.12E+07	9.53E+06

Table R–1735. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1736. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.93E+03	-1.48E+05	1.64E+05	-1.47E+05	1.61E+05	-8.97E+06	9.50E+06
1/20	182.	-3.01E+05	3.93E+05	-2.97E+05	3.81E+05	-5.95E+06	7.62E+06
1/15	6.55E+03	-3.94E+05	5.45E+05	-3.85E+05	5.34E+05	-5.87E+06	7.91E+06
1/10	—	—	—	—	—	—	—

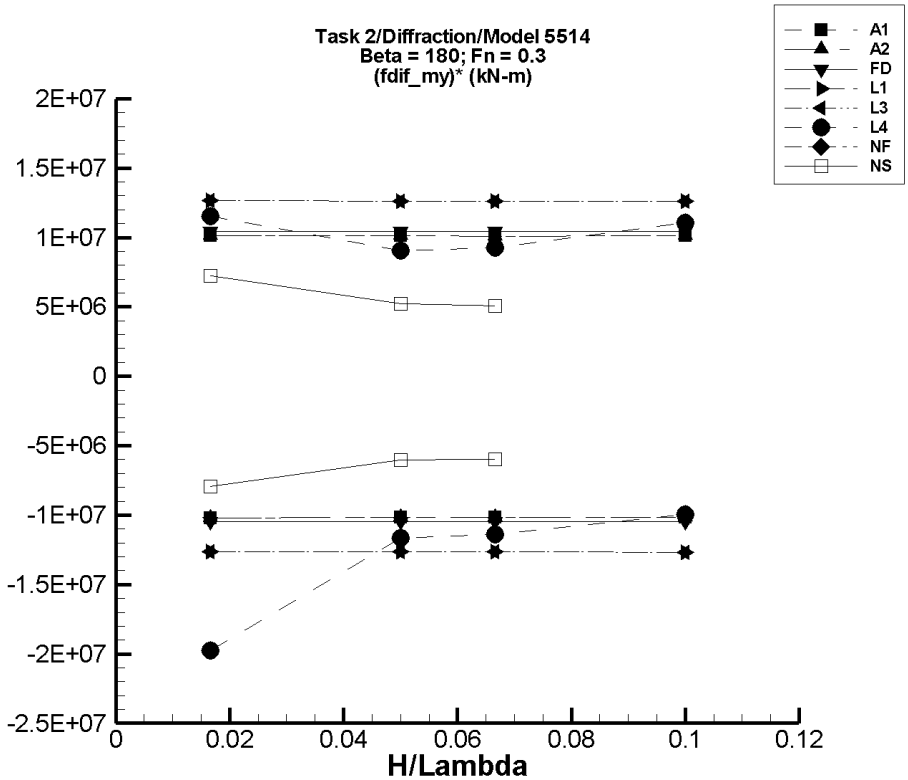

Figure R–218. Minimum and Maximum of $(M_y^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1737. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.05E+03	-1.75E+05	1.77E+05	-1.68E+05	1.71E+05	-1.02E+07	1.01E+07
1/20	6.14E+03	-5.24E+05	5.29E+05	-5.03E+05	5.12E+05	-1.02E+07	1.01E+07
1/15	8.17E+03	-6.98E+05	7.04E+05	-6.69E+05	6.82E+05	-1.02E+07	1.01E+07
1/10	1.23E+04	-1.05E+06	1.06E+06	-1.01E+06	1.02E+06	-1.02E+07	1.01E+07

Table R–1738. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	2.05E+03	-1.75E+05	1.77E+05	-1.68E+05	1.71E+05	-1.02E+07	1.01E+07
1/20	6.14E+03	-5.24E+05	5.29E+05	-5.03E+05	5.12E+05	-1.02E+07	1.01E+07
1/15	8.17E+03	-6.98E+05	7.04E+05	-6.69E+05	6.82E+05	-1.02E+07	1.01E+07
1/10	1.23E+04	-1.05E+06	1.06E+06	-1.01E+06	1.02E+06	-1.02E+07	1.01E+07

Table R–1739. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	213.	-1.80E+05	1.80E+05	-1.74E+05	1.75E+05	-1.05E+07	1.05E+07
1/20	640.	-5.41E+05	5.41E+05	-5.23E+05	5.24E+05	-1.05E+07	1.05E+07
1/15	853.	-7.21E+05	7.21E+05	-6.97E+05	6.98E+05	-1.05E+07	1.05E+07
1/10	1.28E+03	-1.08E+06	1.08E+06	-1.05E+06	1.05E+06	-1.05E+07	1.05E+07

Table R–1740. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.39E+04	-1.69E+05	2.57E+05	-1.67E+05	2.54E+05	-1.26E+07	1.26E+07
1/20	4.50E+04	-5.95E+05	6.84E+05	-5.88E+05	6.76E+05	-1.27E+07	1.26E+07
1/15	4.60E+04	-8.08E+05	8.98E+05	-7.98E+05	8.88E+05	-1.27E+07	1.26E+07
1/10	4.86E+04	-1.23E+06	1.33E+06	-1.22E+06	1.31E+06	-1.27E+07	1.26E+07

Table R–1741. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	4.39E+04	-1.69E+05	2.57E+05	-1.67E+05	2.54E+05	-1.26E+07	1.26E+07
1/20	4.50E+04	-5.95E+05	6.84E+05	-5.88E+05	6.76E+05	-1.27E+07	1.26E+07
1/15	4.59E+04	-8.08E+05	8.98E+05	-7.98E+05	8.88E+05	-1.27E+07	1.26E+07
1/10	4.86E+04	-1.23E+06	1.33E+06	-1.22E+06	1.31E+06	-1.27E+07	1.26E+07

Table R–1742. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	1.55E+04	-3.28E+05	2.26E+05	-3.13E+05	2.08E+05	-1.97E+07	1.15E+07
1/20	-9.75E+04	-7.04E+05	4.23E+05	-6.80E+05	3.55E+05	-1.17E+07	9.04E+06
1/15	-1.62E+05	-9.52E+05	5.09E+05	-9.21E+05	4.56E+05	-1.14E+07	9.28E+06
1/10	-5.14E+04	-1.10E+06	1.32E+06	-1.05E+06	1.06E+06	-9.94E+06	1.11E+07

Table R–1743. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1744. Minimum and Maximum of M_y^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_y^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_y^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_y^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.50E+03	-1.37E+05	1.19E+05	-1.35E+05	1.18E+05	-7.96E+06	7.24E+06
1/20	-1.56E+04	-3.21E+05	2.49E+05	-3.16E+05	2.47E+05	-6.00E+06	5.25E+06
1/15	1.50E+03	-4.01E+05	3.43E+05	-3.97E+05	3.41E+05	-5.98E+06	5.09E+06
1/10	—	—	—	—	—	—	—

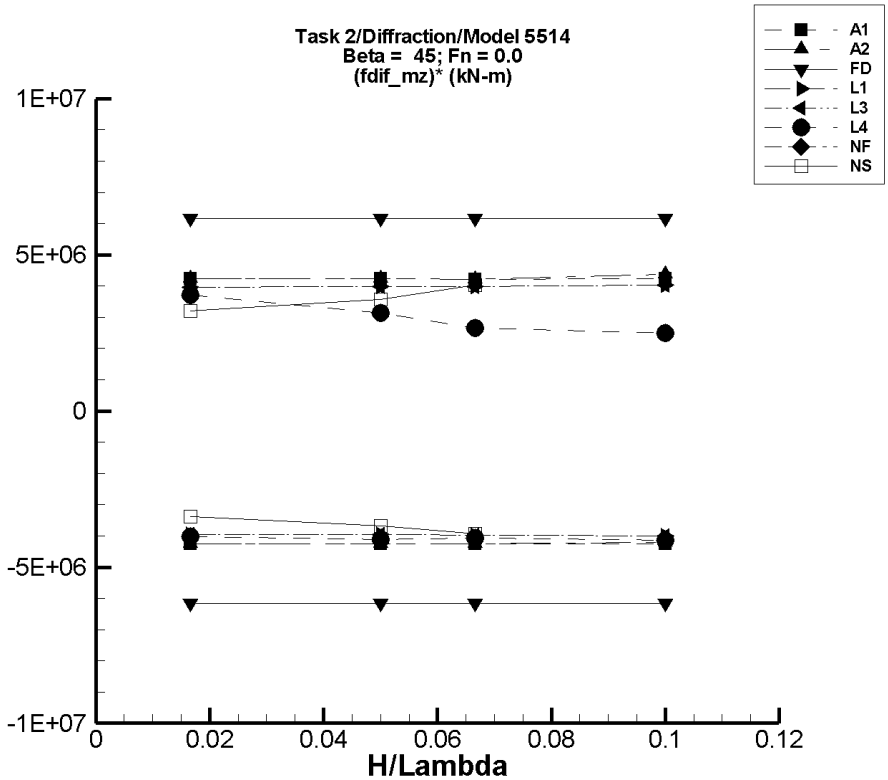

Figure R–219. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0.

Table R–1745. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-37.7	-7.18E+04	7.16E+04	-7.11E+04	7.06E+04	-4.26E+06	4.24E+06
1/20	-113.	-2.15E+05	2.14E+05	-2.13E+05	2.11E+05	-4.25E+06	4.23E+06
1/15	-150.	-2.86E+05	2.85E+05	-2.83E+05	2.81E+05	-4.24E+06	4.22E+06
1/10	-226.	-4.30E+05	4.28E+05	-4.25E+05	4.23E+05	-4.25E+06	4.23E+06

Table R–1746. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-37.7	-7.18E+04	7.16E+04	-7.11E+04	7.06E+04	-4.26E+06	4.24E+06
1/20	-113.	-2.15E+05	2.14E+05	-2.13E+05	2.11E+05	-4.25E+06	4.23E+06
1/15	-150.	-2.86E+05	2.85E+05	-2.83E+05	2.81E+05	-4.24E+06	4.22E+06
1/10	-3.52E+03	-4.29E+05	4.47E+05	-4.24E+05	4.35E+05	-4.20E+06	4.39E+06

Table R–1747. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.63	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05	-6.16E+06	6.16E+06
1/20	-7.86	-3.11E+05	3.11E+05	-3.08E+05	3.08E+05	-6.16E+06	6.16E+06
1/15	-10.5	-4.15E+05	4.15E+05	-4.11E+05	4.11E+05	-6.16E+06	6.16E+06
1/10	-15.7	-6.23E+05	6.23E+05	-6.16E+05	6.16E+05	-6.16E+06	6.16E+06

Table R–1748. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-230.	-6.63E+04	6.60E+04	-6.61E+04	6.57E+04	-3.95E+06	3.96E+06
1/20	-2.00E+03	-2.01E+05	1.98E+05	-2.00E+05	1.97E+05	-3.96E+06	3.98E+06
1/15	-3.53E+03	-2.70E+05	2.64E+05	-2.68E+05	2.63E+05	-3.97E+06	3.99E+06
1/10	-7.91E+03	-4.10E+05	3.97E+05	-4.08E+05	3.96E+05	-4.00E+06	4.03E+06

Table R–1749. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-230.	-6.63E+04	6.60E+04	-6.61E+04	6.57E+04	-3.95E+06	3.96E+06
1/20	-2.00E+03	-2.01E+05	1.98E+05	-2.00E+05	1.97E+05	-3.96E+06	3.98E+06
1/15	-3.53E+03	-2.70E+05	2.64E+05	-2.68E+05	2.63E+05	-3.97E+06	3.99E+06
1/10	-7.91E+03	-4.10E+05	3.97E+05	-4.08E+05	3.96E+05	-4.00E+06	4.03E+06

Table R–1750. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.48E+03	-7.18E+04	6.35E+04	-6.86E+04	6.05E+04	-4.03E+06	3.72E+06
1/20	-1.14E+04	-2.33E+05	1.61E+05	-2.17E+05	1.45E+05	-4.12E+06	3.14E+06
1/15	-1.76E+04	-3.06E+05	1.77E+05	-2.89E+05	1.59E+05	-4.08E+06	2.65E+06
1/10	-1.22E+04	-4.53E+05	6.13E+05	-4.26E+05	2.36E+05	-4.14E+06	2.49E+06

Table R–1751. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1752. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-748.	-5.83E+04	5.35E+04	-5.72E+04	5.27E+04	-3.39E+06	3.20E+06
1/20	-27.1	-1.86E+05	1.84E+05	-1.84E+05	1.78E+05	-3.67E+06	3.56E+06
1/15	513.	-2.66E+05	2.78E+05	-2.61E+05	2.69E+05	-3.92E+06	4.03E+06
1/10	—	—	—	—	—	—	—

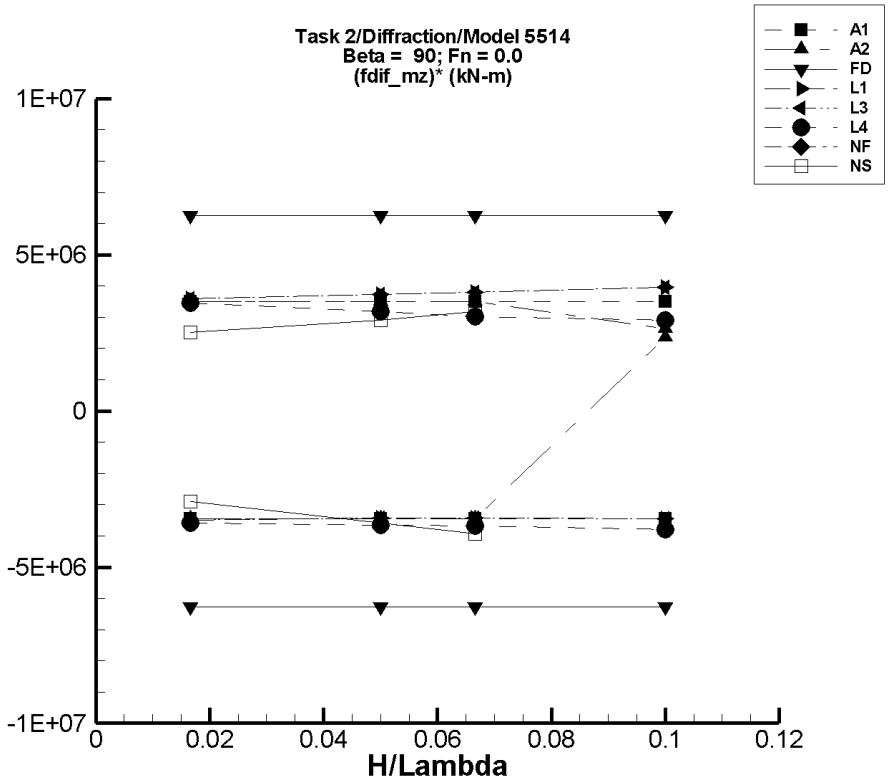

Figure R–220. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0.

Table R–1753. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Max. (kN-m)
1/60	2.53	-5.83E+04	5.88E+04	-5.76E+04	5.86E+04	-3.46E+06	3.51E+06
1/20	7.57	-1.74E+05	1.76E+05	-1.72E+05	1.75E+05	-3.45E+06	3.50E+06
1/15	10.1	-2.32E+05	2.34E+05	-2.30E+05	2.33E+05	-3.44E+06	3.50E+06
1/10	15.1	-3.49E+05	3.52E+05	-3.45E+05	3.50E+05	-3.45E+06	3.50E+06

Table R–1754. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Max. (kN-m)
1/60	2.53	-5.83E+04	5.88E+04	-5.76E+04	5.86E+04	-3.46E+06	3.51E+06
1/20	7.57	-1.74E+05	1.76E+05	-1.72E+05	1.75E+05	-3.45E+06	3.50E+06
1/15	10.1	-2.32E+05	2.34E+05	-2.30E+05	2.33E+05	-3.44E+06	3.50E+06
1/10	-1.73E+05	6.29E+04	8.94E+04	6.29E+04	8.94E+04	2.36E+06	2.63E+06

Table R–1755. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\mathrm{dif}})^*$ Max. (kN-m)
1/60	-1.87	-1.06E+05	1.06E+05	-1.04E+05	1.04E+05	-6.27E+06	6.27E+06
1/20	-5.65	-3.17E+05	3.17E+05	-3.13E+05	3.13E+05	-6.27E+06	6.27E+06
1/15	-7.49	-4.22E+05	4.22E+05	-4.18E+05	4.18E+05	-6.27E+06	6.27E+06
1/10	-11.3	-6.34E+05	6.34E+05	-6.27E+05	6.27E+05	-6.27E+06	6.27E+06

Table R–1756. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-893.	-5.93E+04	5.93E+04	-5.91E+04	5.90E+04	-3.49E+06	3.60E+06
1/20	-7.82E+03	-1.80E+05	1.80E+05	-1.80E+05	1.79E+05	-3.43E+06	3.73E+06
1/15	-1.39E+04	-2.43E+05	2.41E+05	-2.42E+05	2.40E+05	-3.42E+06	3.80E+06
1/10	-3.11E+04	-3.77E+05	3.68E+05	-3.75E+05	3.66E+05	-3.44E+06	3.97E+06

Table R–1757. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-893.	-5.93E+04	5.93E+04	-5.91E+04	5.90E+04	-3.49E+06	3.60E+06
1/20	-7.82E+03	-1.80E+05	1.80E+05	-1.80E+05	1.79E+05	-3.43E+06	3.73E+06
1/15	-1.39E+04	-2.43E+05	2.41E+05	-2.42E+05	2.40E+05	-3.42E+06	3.80E+06
1/10	-3.11E+04	-3.77E+05	3.68E+05	-3.75E+05	3.66E+05	-3.44E+06	3.97E+06

Table R–1758. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-71.5	-6.22E+04	6.02E+04	-5.97E+04	5.74E+04	-3.58E+06	3.45E+06
1/20	3.77E+03	-1.87E+05	1.71E+05	-1.79E+05	1.63E+05	-3.66E+06	3.19E+06
1/15	1.16E+04	-2.56E+05	2.28E+05	-2.34E+05	2.12E+05	-3.69E+06	3.01E+06
1/10	8.56E+04	-3.37E+05	6.31E+05	-2.94E+05	3.76E+05	-3.79E+06	2.90E+06

Table R–1759. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1760. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-747.	-4.98E+04	4.17E+04	-4.89E+04	4.12E+04	-2.89E+06	2.52E+06
1/20	2.69E+03	-1.81E+05	1.51E+05	-1.76E+05	1.48E+05	-3.58E+06	2.91E+06
1/15	5.59E+03	-2.62E+05	2.28E+05	-2.56E+05	2.17E+05	-3.93E+06	3.18E+06
1/10	—	—	—	—	—	—	—

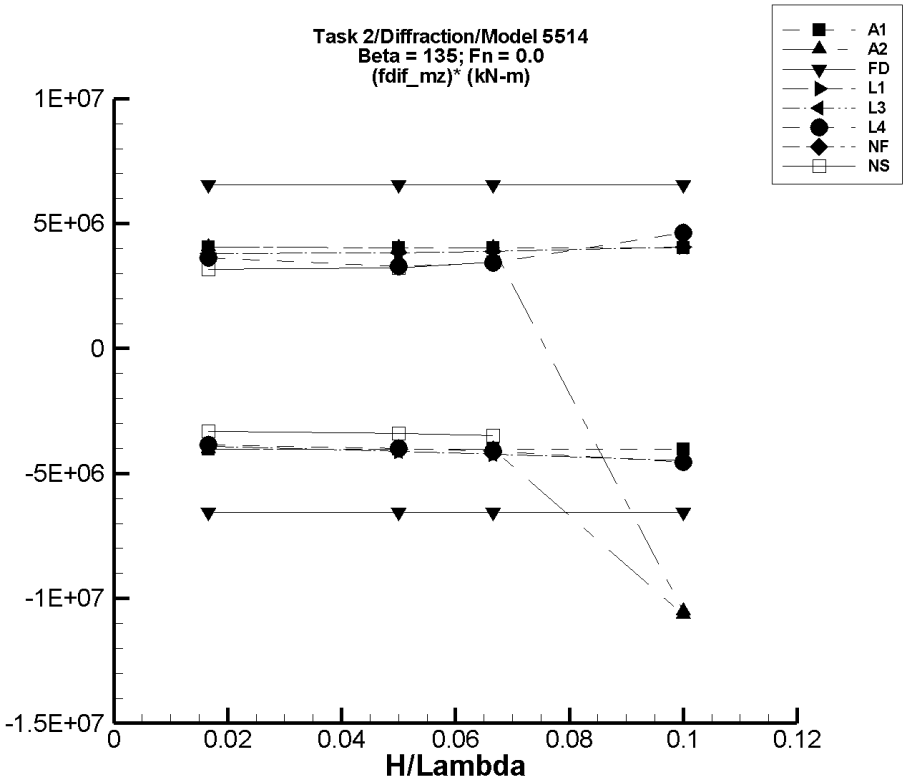

Figure R–221. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0.

Table R–1761. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	13.4	-6.79E+04	6.83E+04	-6.73E+04	6.75E+04	-4.04E+06	4.05E+06
1/20	40.0	-2.03E+05	2.04E+05	-2.01E+05	2.02E+05	-4.03E+06	4.04E+06
1/15	53.3	-2.71E+05	2.72E+05	-2.68E+05	2.69E+05	-4.02E+06	4.03E+06
1/10	80.0	-4.06E+05	4.09E+05	-4.03E+05	4.04E+05	-4.03E+06	4.04E+06

Table R–1762. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	13.4	-6.79E+04	6.83E+04	-6.73E+04	6.75E+04	-4.04E+06	4.05E+06
1/20	40.0	-2.03E+05	2.04E+05	-2.01E+05	2.02E+05	-4.03E+06	4.04E+06
1/15	53.3	-2.71E+05	2.72E+05	-2.68E+05	2.69E+05	-4.02E+06	4.03E+06
1/10	1.32E+06	2.54E+05	2.68E+05	2.54E+05	2.68E+05	-1.06E+07	-1.05E+07

Table R–1763. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	3.68	-1.11E+05	1.11E+05	-1.09E+05	1.09E+05	-6.56E+06	6.56E+06
1/20	11.1	-3.32E+05	3.32E+05	-3.28E+05	3.28E+05	-6.56E+06	6.56E+06
1/15	14.7	-4.42E+05	4.42E+05	-4.37E+05	4.37E+05	-6.56E+06	6.56E+06
1/10	22.2	-6.63E+05	6.63E+05	-6.56E+05	6.56E+05	-6.56E+06	6.56E+06

Table R–1764. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	205.	-6.53E+04	6.40E+04	-6.51E+04	6.37E+04	-3.92E+06	3.81E+06
1/20	1.82E+03	-2.05E+05	1.94E+05	-2.04E+05	1.93E+05	-4.11E+06	3.83E+06
1/15	3.23E+03	-2.80E+05	2.63E+05	-2.79E+05	2.62E+05	-4.23E+06	3.88E+06
1/10	7.26E+03	-4.45E+05	4.14E+05	-4.42E+05	4.12E+05	-4.49E+06	4.05E+06

Table R–1765. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	205.	-6.53E+04	6.40E+04	-6.51E+04	6.37E+04	-3.92E+06	3.81E+06
1/20	1.82E+03	-2.05E+05	1.94E+05	-2.04E+05	1.93E+05	-4.11E+06	3.83E+06
1/15	3.23E+03	-2.80E+05	2.63E+05	-2.79E+05	2.62E+05	-4.23E+06	3.88E+06
1/10	7.26E+03	-4.45E+05	4.14E+05	-4.42E+05	4.12E+05	-4.49E+06	4.05E+06

Table R–1766. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	410.	-6.50E+04	6.45E+04	-6.40E+04	6.06E+04	-3.86E+06	3.61E+06
1/20	7.24E+03	-1.99E+05	1.78E+05	-1.93E+05	1.72E+05	-4.00E+06	3.29E+06
1/15	1.54E+04	-2.76E+05	2.56E+05	-2.58E+05	2.43E+05	-4.11E+06	3.42E+06
1/10	4.89E+04	-6.78E+05	5.37E+05	-4.06E+05	5.13E+05	-4.55E+06	4.64E+06

Table R–1767. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1768. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-374.	-5.57E+04	5.33E+04	-5.56E+04	5.24E+04	-3.31E+06	3.17E+06
1/20	3.77E+03	-1.68E+05	1.68E+05	-1.67E+05	1.65E+05	-3.41E+06	3.22E+06
1/15	7.91E+03	-2.26E+05	2.42E+05	-2.25E+05	2.38E+05	-3.49E+06	3.45E+06
1/10	—	—	—	—	—	—	—

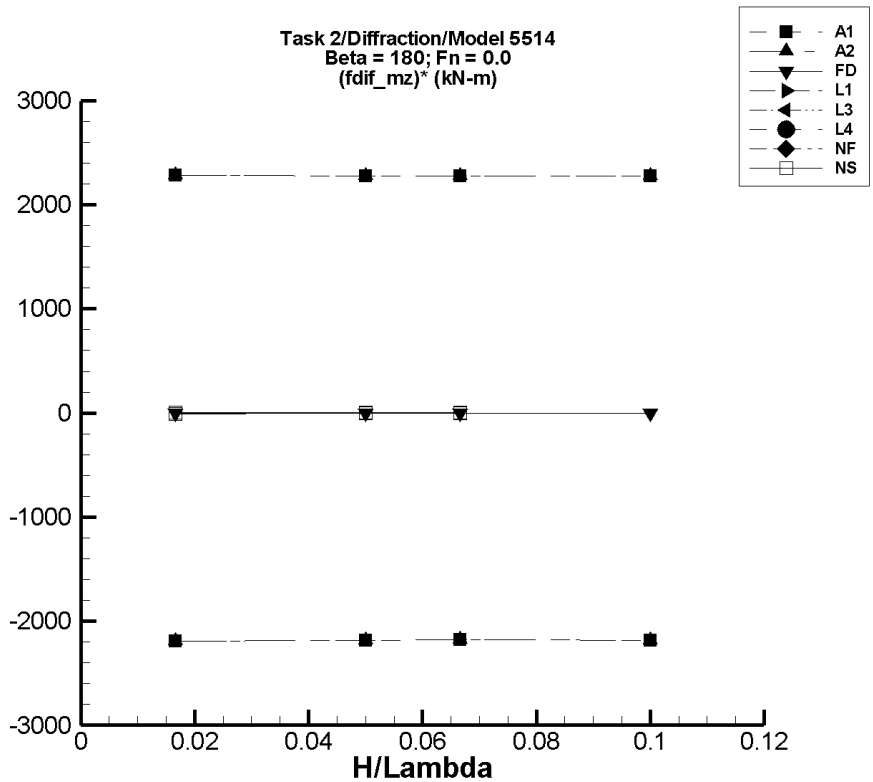

Figure R–222. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0.

Table R–1769. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-0.133	-37.1	38.0	-36.6	37.9	-2.19E+03	2.28E+03
1/20	-0.397	-111.	114.	-110.	114.	-2.18E+03	2.28E+03
1/15	-0.528	-148.	152.	-146.	151.	-2.18E+03	2.28E+03
1/10	-0.793	-222.	228.	-219.	227.	-2.18E+03	2.28E+03

Table R–1770. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-0.133	-37.1	38.0	-36.6	37.9	-2.19E+03	2.28E+03
1/20	-0.397	-111.	114.	-110.	114.	-2.18E+03	2.28E+03
1/15	-0.528	-148.	152.	-146.	151.	-2.18E+03	2.28E+03
1/10	-0.793	-222.	228.	-219.	227.	-2.18E+03	2.28E+03

Table R–1771. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-4.08E-07	-1.23E-02	1.24E-02	-1.22E-02	1.22E-02	-0.733	0.733
1/20	-1.22E-06	-3.70E-02	3.71E-02	-3.66E-02	3.66E-02	-0.733	0.733
1/15	-1.63E-06	-4.94E-02	4.94E-02	-4.89E-02	4.89E-02	-0.733	0.733
1/10	-2.45E-06	-7.41E-02	7.41E-02	-7.33E-02	7.33E-02	-0.733	0.733

Table R–1772. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1773. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1774. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1775. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1776. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-1.65E-03	-4.18	4.14	-0.112	8.39E-02	-6.63	5.13
1/20	1.25E-03	-4.68	4.77	-0.135	0.151	-2.72	2.99
1/15	1.86E-02	-0.994	1.04	-0.108	0.191	-1.89	2.58
1/10	—	—	—	—	—	—	—

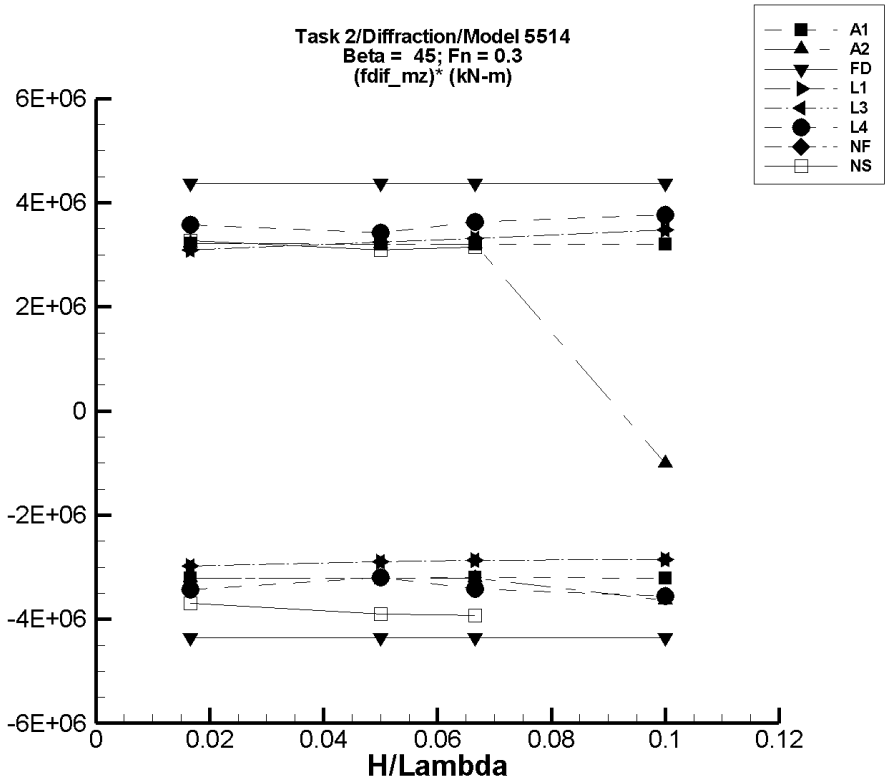

Figure R–223. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.3.

Table R–1777. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-3.78	-5.38E+04	5.38E+04	-5.36E+04	5.36E+04	-3.22E+06	3.22E+06
1/20	-11.3	-1.61E+05	1.61E+05	-1.60E+05	1.60E+05	-3.21E+06	3.21E+06
1/15	-15.0	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05	-3.20E+06	3.20E+06
1/10	-22.6	-3.22E+05	3.22E+05	-3.21E+05	3.21E+05	-3.21E+06	3.21E+06

Table R–1778. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-3.78	-5.38E+04	5.38E+04	-5.36E+04	5.36E+04	-3.22E+06	3.22E+06
1/20	-11.3	-1.61E+05	1.61E+05	-1.60E+05	1.60E+05	-3.21E+06	3.21E+06
1/15	393.	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05	-3.21E+06	3.20E+06
1/10	3.71E+05	4.76E+03	2.73E+05	7.83E+03	2.71E+05	-3.64E+06	-1.01E+06

Table R–1779. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	-52.7	-7.29E+04	7.29E+04	-7.27E+04	7.28E+04	-4.36E+06	4.37E+06
1/20	-158.	-2.19E+05	2.19E+05	-2.18E+05	2.18E+05	-4.36E+06	4.37E+06
1/15	-211.	-2.92E+05	2.92E+05	-2.91E+05	2.91E+05	-4.36E+06	4.37E+06
1/10	-317.	-4.38E+05	4.38E+05	-4.36E+05	4.37E+05	-4.36E+06	4.37E+06

Table R–1780. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-297.	-5.00E+04	5.14E+04	-4.99E+04	5.13E+04	-2.98E+06	3.10E+06
1/20	-2.70E+03	-1.47E+05	1.59E+05	-1.47E+05	1.59E+05	-2.89E+06	3.24E+06
1/15	-4.80E+03	-1.96E+05	2.16E+05	-1.96E+05	2.16E+05	-2.87E+06	3.31E+06
1/10	-1.08E+04	-2.96E+05	3.37E+05	-2.96E+05	3.37E+05	-2.85E+06	3.47E+06

Table R–1781. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-298.	-4.99E+04	5.14E+04	-4.99E+04	5.13E+04	-2.98E+06	3.10E+06
1/20	-2.70E+03	-1.47E+05	1.59E+05	-1.47E+05	1.59E+05	-2.89E+06	3.24E+06
1/15	-4.80E+03	-1.96E+05	2.16E+05	-1.96E+05	2.16E+05	-2.87E+06	3.31E+06
1/10	-1.08E+04	-2.96E+05	3.37E+05	-2.96E+05	3.37E+05	-2.85E+06	3.47E+06

Table R–1782. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	2.85E+03	-5.79E+04	6.43E+04	-5.44E+04	6.24E+04	-3.43E+06	3.57E+06
1/20	2.36E+04	-1.39E+05	2.08E+05	-1.37E+05	1.95E+05	-3.20E+06	3.42E+06
1/15	4.39E+04	-1.87E+05	3.16E+05	-1.84E+05	2.86E+05	-3.42E+06	3.62E+06
1/10	1.08E+05	-3.94E+05	8.11E+05	-2.48E+05	4.85E+05	-3.56E+06	3.77E+06

Table R–1783. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1784. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $45°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-5.22E+03	-6.74E+04	4.98E+04	-6.67E+04	4.94E+04	-3.69E+06	3.28E+06
1/20	-3.87E+04	-2.38E+05	1.16E+05	-2.34E+05	1.16E+05	-3.90E+06	3.10E+06
1/15	-6.08E+04	-3.25E+05	1.51E+05	-3.22E+05	1.49E+05	-3.92E+06	3.15E+06
1/10	—	—	—	—	—	—	—

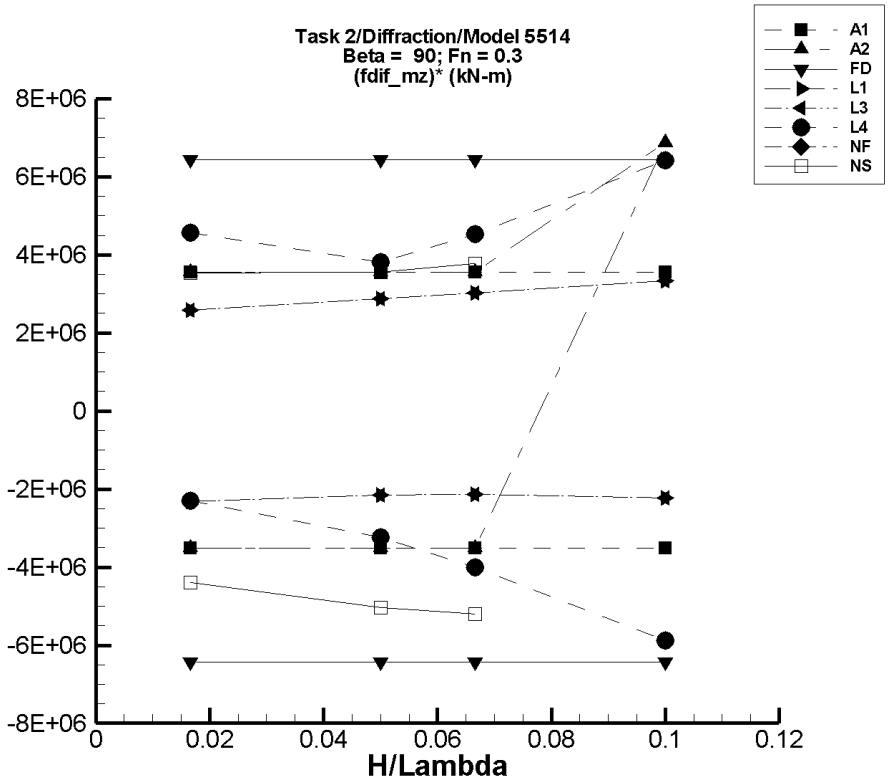

Figure R–224. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.3.

Table R–1785. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Max. (kN-m)
1/60	-61.6	-5.94E+04	5.99E+04	-5.87E+04	5.93E+04	-3.52E+06	3.56E+06
1/20	-184.	-1.78E+05	1.79E+05	-1.76E+05	1.77E+05	-3.51E+06	3.55E+06
1/15	-246.	-2.37E+05	2.39E+05	-2.34E+05	2.36E+05	-3.50E+06	3.55E+06
1/10	-369.	-3.56E+05	3.59E+05	-3.51E+05	3.55E+05	-3.51E+06	3.55E+06

Table R–1786. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Max. (kN-m)
1/60	-61.6	-5.94E+04	5.99E+04	-5.87E+04	5.93E+04	-3.52E+06	3.56E+06
1/20	-184.	-1.78E+05	1.79E+05	-1.76E+05	1.77E+05	-3.51E+06	3.55E+06
1/15	-246.	-2.37E+05	2.39E+05	-2.34E+05	2.36E+05	-3.50E+06	3.55E+06
1/10	-3.30E+05	3.55E+05	3.57E+05	3.55E+05	3.57E+05	6.85E+06	6.87E+06

Table R–1787. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\mathrm{dif}}\right)^*$ Max. (kN-m)
1/60	-2.16	-1.08E+05	1.08E+05	-1.07E+05	1.07E+05	-6.43E+06	6.43E+06
1/20	-6.49	-3.25E+05	3.25E+05	-3.22E+05	3.21E+05	-6.43E+06	6.43E+06
1/15	-8.68	-4.34E+05	4.34E+05	-4.29E+05	4.29E+05	-6.43E+06	6.43E+06
1/10	-13.0	-6.50E+05	6.50E+05	-6.43E+05	6.43E+05	-6.43E+06	6.43E+06

Table R–1788. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	810.	-3.79E+04	4.40E+04	-3.78E+04	4.38E+04	-2.32E+06	2.58E+06
1/20	7.29E+03	-1.00E+05	1.52E+05	-1.00E+05	1.51E+05	-2.14E+06	2.87E+06
1/15	1.30E+04	-1.30E+05	2.16E+05	-1.29E+05	2.15E+05	-2.13E+06	3.03E+06
1/10	2.92E+04	-1.94E+05	3.65E+05	-1.93E+05	3.62E+05	-2.22E+06	3.33E+06

Table R–1789. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	809.	-3.79E+04	4.40E+04	-3.78E+04	4.38E+04	-2.32E+06	2.58E+06
1/20	7.29E+03	-1.00E+05	1.52E+05	-1.00E+05	1.51E+05	-2.14E+06	2.87E+06
1/15	1.30E+04	-1.30E+05	2.16E+05	-1.29E+05	2.15E+05	-2.13E+06	3.03E+06
1/10	2.92E+04	-1.94E+05	3.65E+05	-1.93E+05	3.62E+05	-2.22E+06	3.33E+06

Table R–1790. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	3.72E+03	-3.95E+04	8.23E+04	-3.47E+04	7.99E+04	-2.31E+06	4.57E+06
1/20	3.49E+04	-1.31E+05	2.39E+05	-1.27E+05	2.25E+05	-3.24E+06	3.81E+06
1/15	6.38E+04	-2.11E+05	3.73E+05	-2.03E+05	3.65E+05	-4.00E+06	4.52E+06
1/10	1.57E+05	-4.46E+05	1.10E+06	-4.31E+05	7.99E+05	-5.88E+06	6.42E+06

Table R–1791. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1792. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $90°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\mathrm{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\mathrm{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-9.77E+03	-8.42E+04	4.97E+04	-8.29E+04	4.92E+04	-4.39E+06	3.54E+06
1/20	-6.93E+04	-3.33E+05	1.12E+05	-3.21E+05	1.08E+05	-5.04E+06	3.55E+06
1/15	-1.09E+05	-4.65E+05	1.45E+05	-4.56E+05	1.43E+05	-5.20E+06	3.78E+06
1/10	—	—	—	—	—	—	—

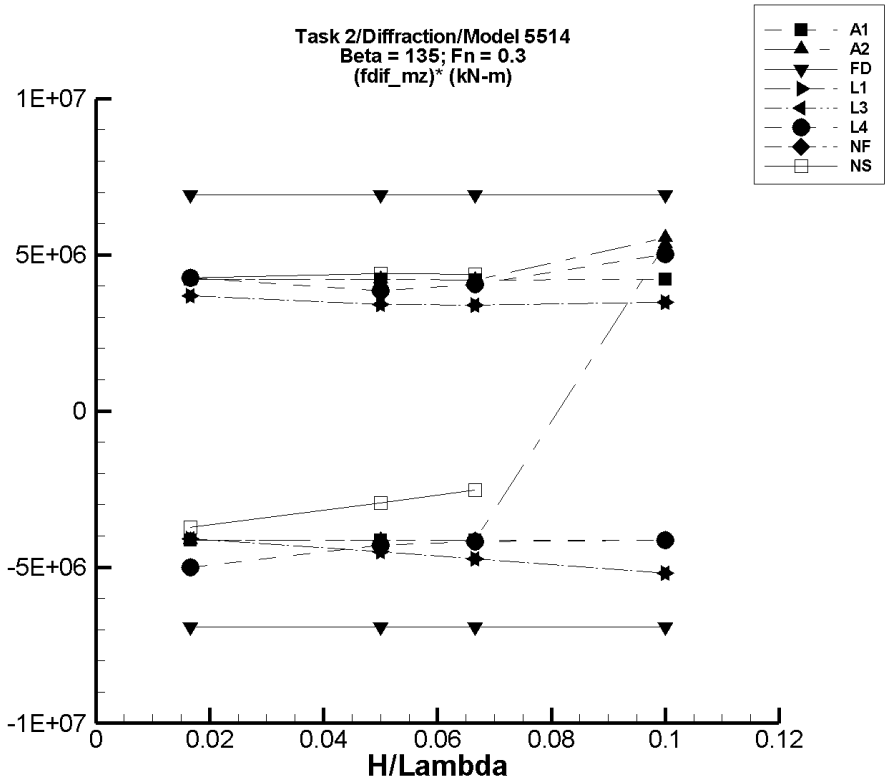

Figure R–225. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.3.

Table R–1793. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	83.2	-7.10E+04	7.22E+04	-6.90E+04	7.03E+04	-4.15E+06	4.21E+06
1/20	249.	-2.12E+05	2.16E+05	-2.06E+05	2.10E+05	-4.13E+06	4.20E+06
1/15	331.	-2.83E+05	2.88E+05	-2.75E+05	2.80E+05	-4.13E+06	4.20E+06
1/10	498.	-4.25E+05	4.32E+05	-4.13E+05	4.21E+05	-4.13E+06	4.20E+06

Table R–1794. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	83.2	-7.10E+04	7.22E+04	-6.90E+04	7.03E+04	-4.15E+06	4.21E+06
1/20	249.	-2.12E+05	2.16E+05	-2.06E+05	2.10E+05	-4.13E+06	4.20E+06
1/15	331.	-2.83E+05	2.88E+05	-2.75E+05	2.80E+05	-4.13E+06	4.20E+06
1/10	-1.68E+05	3.67E+05	3.86E+05	3.67E+05	3.86E+05	5.35E+06	5.54E+06

Table R–1795. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Min. (kN-m)	Filtered $\left(M_z^{\text{dif}}\right)^*$ Max. (kN-m)
1/60	-87.4	-1.18E+05	1.18E+05	-1.15E+05	1.15E+05	-6.92E+06	6.93E+06
1/20	-262.	-3.55E+05	3.55E+05	-3.46E+05	3.46E+05	-6.92E+06	6.93E+06
1/15	-349.	-4.74E+05	4.74E+05	-4.61E+05	4.61E+05	-6.92E+06	6.93E+06
1/10	-524.	-7.10E+05	7.10E+05	-6.92E+05	6.92E+05	-6.92E+06	6.93E+06

Table R–1796. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	1.16E+03	-6.77E+04	6.32E+04	-6.69E+04	6.27E+04	-4.09E+06	3.69E+06
1/20	1.03E+04	-2.19E+05	1.83E+05	-2.16E+05	1.81E+05	-4.52E+06	3.42E+06
1/15	1.83E+04	-3.02E+05	2.46E+05	-2.98E+05	2.43E+05	-4.74E+06	3.38E+06
1/10	4.11E+04	-4.87E+05	3.93E+05	-4.78E+05	3.88E+05	-5.19E+06	3.47E+06

Table R–1797. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	1.16E+03	-6.77E+04	6.32E+04	-6.69E+04	6.27E+04	-4.09E+06	3.69E+06
1/20	1.03E+04	-2.19E+05	1.83E+05	-2.16E+05	1.81E+05	-4.52E+06	3.42E+06
1/15	1.83E+04	-3.02E+05	2.46E+05	-2.98E+05	2.43E+05	-4.74E+06	3.38E+06
1/10	4.10E+04	-4.87E+05	3.93E+05	-4.78E+05	3.88E+05	-5.19E+06	3.47E+06

Table R–1798. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ Mean (kN-m)	Unfiltered M_z^{dif} Min. (kN-m)	Unfiltered M_z^{dif} Max. (kN-m)	Filtered M_z^{dif} Min. (kN-m)	Filtered M_z^{dif} Max. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m)	Filtered $(M_z^{\text{dif}})^*$ Max. (kN-m)
1/60	5.24E+03	-8.15E+04	8.01E+04	-7.81E+04	7.63E+04	-5.00E+06	4.26E+06
1/20	3.28E+04	-1.88E+05	2.32E+05	-1.82E+05	2.25E+05	-4.30E+06	3.85E+06
1/15	5.81E+04	-2.31E+05	3.61E+05	-2.21E+05	3.29E+05	-4.18E+06	4.06E+06
1/10	1.33E+05	-4.44E+05	7.18E+05	-2.80E+05	6.34E+05	-4.13E+06	5.01E+06

Table R–1799. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1800. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $135°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-6.27E+03	-6.88E+04	6.64E+04	-6.83E+04	6.49E+04	-3.72E+06	4.27E+06
1/20	-4.22E+04	-1.95E+05	1.83E+05	-1.90E+05	1.77E+05	-2.95E+06	4.39E+06
1/15	-6.40E+04	-2.42E+05	2.32E+05	-2.33E+05	2.27E+05	-2.53E+06	4.37E+06
1/10	—	—	—	—	—	—	—

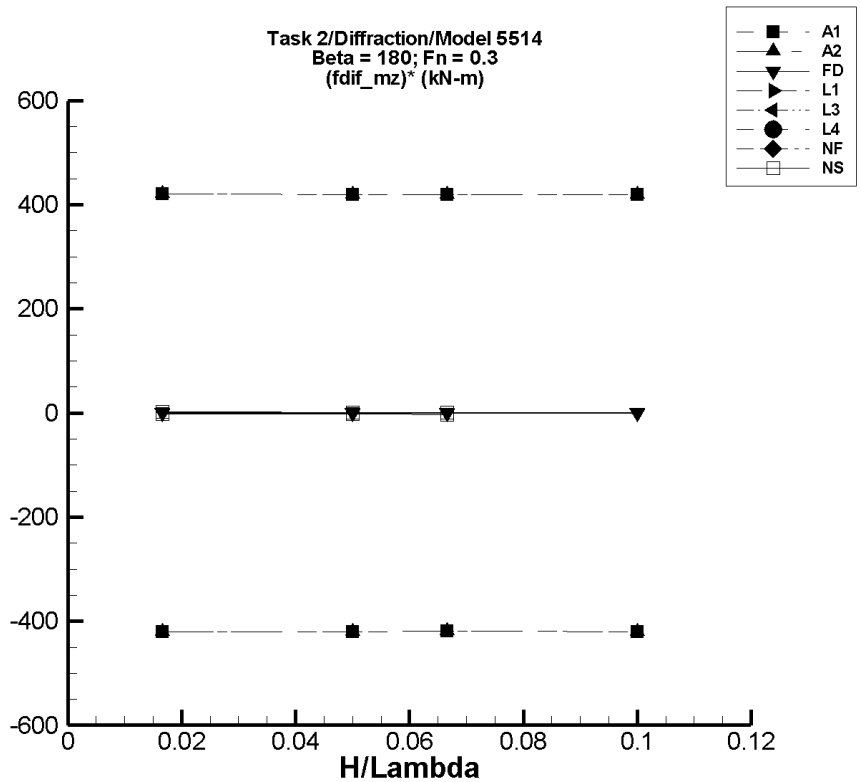

Figure R–226. Minimum and Maximum of $(M_z^{\mathrm{dif}})^*$ Versus H/λ for Prescribed 0-DOF Motion of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.3.

Table R–1801. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-1.

AEGIR-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.22E-02	-7.88	7.33	-6.94	7.09	-421.	421.
1/20	0.216	-23.6	21.9	-20.8	21.2	-420.	420.
1/15	0.288	-31.4	29.2	-27.7	28.2	-419.	419.
1/10	0.432	-47.1	43.8	-41.5	42.4	-420.	420.

Table R–1802. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from AEGIR-2.

AEGIR-2							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	7.22E-02	-7.88	7.33	-6.94	7.09	-421.	421.
1/20	0.216	-23.6	21.9	-20.8	21.2	-420.	420.
1/15	0.288	-31.4	29.2	-27.7	28.2	-419.	419.
1/10	0.432	-47.1	43.8	-41.5	42.4	-420.	420.

Table R–1803. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from FREDYN.

FREDYN							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-2.20E-05	-1.35E-02	1.35E-02	-1.31E-02	1.31E-02	-0.783	0.785
1/20	-6.61E-05	-4.06E-02	4.06E-02	-3.92E-02	3.92E-02	-0.783	0.785
1/15	-8.82E-05	-5.41E-02	5.41E-02	-5.23E-02	5.23E-02	-0.783	0.785
1/10	-1.32E-04	-8.12E-02	8.11E-02	-7.84E-02	7.84E-02	-0.783	0.785

Table R–1804. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-1.

LAMP-1							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1805. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-3.

LAMP-3							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1806. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from LAMP-4.

LAMP-4							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1807. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NFA.

NFA							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	—	—	—	—	—	—	—
1/20	—	—	—	—	—	—	—
1/15	—	—	—	—	—	—	—
1/10	—	—	—	—	—	—	—

Table R–1808. Minimum and Maximum of M_z^{dif} for Prescribed 0-DOF Motion in Waves of Model 5514 (L = 142 m) in Waves at Heading $180°$ and Froude number 0.0 from NSHIPMO.

NSHIPMO							
H/λ	$\langle M_z^{\text{dif}} \rangle$ **Mean (kN-m)**	**Unfiltered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** M_z^{dif} **Min. (kN-m)**	**Max. (kN-m)**	**Filtered** $\left(M_z^{\text{dif}}\right)^*$ **Min. (kN-m)**	**Max. (kN-m)**
1/60	-7.26E-04	-0.150	0.166	-2.71E-02	3.37E-02	-1.58	2.06
1/20	-3.98E-04	-0.360	0.395	-9.88E-02	4.19E-02	-1.97	0.847
1/15	8.35E-03	-0.753	0.715	-0.172	0.104	-2.71	1.43
1/10	—	—	—	—	—	—	—