



FLOODSTAND-deliverable:

Benchmark data on time to capsize for a free drifting model

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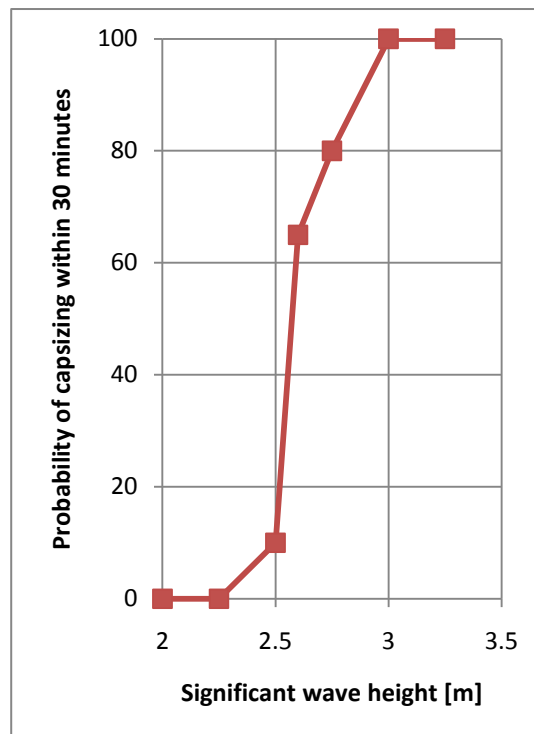
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Abstract: A set of physical model experiments aiming at characterising stochastic process of the time it takes for the vessel to capsize/sink after a hull breach event has been carried out at SSPA Sweden AB in the Maritime Dynamics Laboratory. A RoPax vessel model in scale 1:40 was used. A two compartment damage was modelled and a series of tests with a free drifting model at stationary beam-on-to-waves was performed.	

EXECUTIVE SUMMARY

A set of physical model experiments aiming at characterising stochastic process of the time it takes for the vessel to capsize/sink after a hull breach event has been carried out at SSPA Sweden AB in the Maritime Dynamics Laboratory. A RoPax vessel model in scale 1:40 was used. A two compartment damage was modelled and a series of tests with a free model at stationary beam-on-to-waves was performed.

The series of tests comprised repetitions in order to create sufficiently consistent relative frequency distribution of time to capsize. A total of 83 tests were performed.

The probability of capsizing within half an hour as function of significant wave height is shown in the figure.





REPORT

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Benchmark data on time to capsizes for a free drifting model

Capsizing tests at SSPA

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Summary

A set of physical model experiments aiming at characterising stochastic process of the time it takes for the vessel to capsize/sink after a hull breach event has been carried out at SSPA Sweden AB in the Maritime Dynamics Laboratory. A RoPax vessel model in scale 1:40 was used. A two compartment damage was modelled and a series of tests with a free model at stationary beam-on-to-waves was performed.

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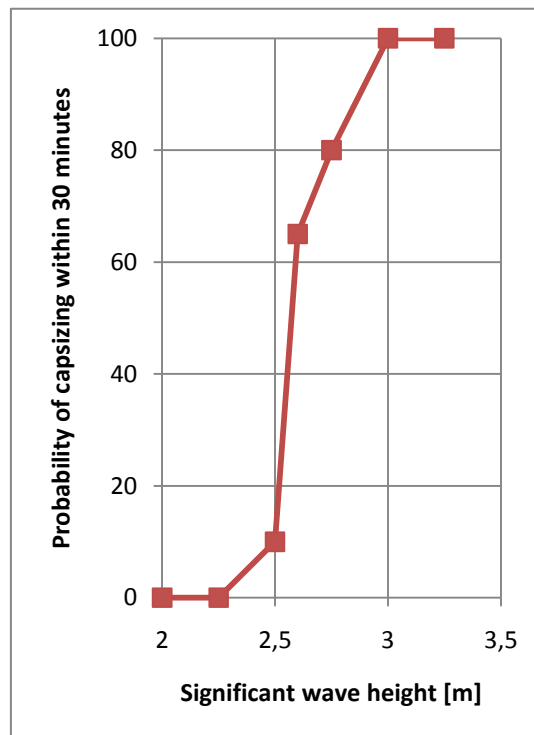


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1 Introduction

A set of physical model experiments aiming at characterising stochastic process of the time it takes for the vessel to capsize/sink after a hull breach event has been carried out at SSPA Sweden AB in the Maritime Dynamics Laboratory. A RoPax vessel model in scale 1:40 was used. A two compartment damage was modelled and a series of tests at stationary beam-on-to-waves was performed. The series of tests comprised repetitions in order to create sufficiently consistent relative frequency distribution of time to capsize.

2 Ship data

The tests were carried out with a model of a RoPax vessel. The main data of the ship at the intact loading condition are given in Table 1:

Table 1 Main data of the intact ship

Parameter	Unit	Value	
Length, Lpp	[m]	137.4	
Breadth, moulded	[m]	24.2	
Draft, aft	[m]	5.61	
Draft, forward	[m]	5.17	
Displacement	[m ³]	12 046	
Block coefficient	[-]	0.683	
LCG (fwd of Lpp/2)	[m]	-4.66	
VCG (above BL)	[m]	10.62	
GM _T (measured)	[m]	Intact cond.	Damage cond.
		1.17	1.04
Radii of gyration in air, roll	[m]	8.954 (0.37*B)	
Radii of gyration in air, pitch	[m]	37.1 (0.27*Lbp)	

The SSPA ship model 3191-A was used in the tests. The body plan is shown in Figure 1. The model was manufactured in scale 1:40.

The model was equipped with two fixed rudders, SSPA stock propellers and bilge keels.

Table 2 Main data of the rudders

Parameter	Unit	Value
Area (one rudder), movable	[m ²]	8.75
Area (one rudder), total	[m ²]	10.85
Rudder height	[m]	4.00
% of Lbp · T per rudder	[%]	2.93

Table 3 Main data of the propellers

Parameter	Unit	Value
Diameter (full scale)	[m]	4.18
No of blades, Z	[-]	4
Pitch P/D at 0.7R	[-]	0.806
Blade area ratio	[-]	0.611

The length of the forward bilge keels is 35.2 m (#7.95 to #13.07) and the aft bilge keels 13.6 m (#5.38 to #7.36). The height of the bilge keels is 0.6 m

The design water line was marked on the model as well as marks for every other meter vertical distance.

2.1 The hull damage

Damage was caused to the model according to SOLAS damage opening standard by means of a V-cut in the hull from bottom to top. The depth of the cut is $B/5 = 4.84$ m and the length is $0.03L+3$ m = 7.12 m. The position of the centre of the damage is 37.8 m forward of AP, see Figure 2.

The flooded compartments below the car deck are R511, R512, R519, R521 and R611 as shown in Figure 3. The total gross volume of the flooded compartments is 3 246 m³. The net volume was measured to 2 418 m³. The volume of the intact side tanks on the starboard side R513, R514 and R515 is 16.3, 25.5 and 21.2 m³ respectively.

The trim angle of the damaged ship was measured to 0.45 deg relative to the intact ship and the heel angle was 4.25 deg towards the port.

Photos of the model are shown in Figure 4.

3 Model tests

3.1 Test facility and procedure

The tests were carried out with a free model in the Maritime Dynamics Laboratory (MDL). MDL has a basin with the dimensions 88 m x 39 m and variable water depth between 0 and 3.0 m.

Wave generators for producing regular waves and irregular long-crested waves are installed on two perpendicular sides of the basin. A multi-motion carriage, used for data logging and model control, spans the whole basin.

Measurement signals from the model are transferred to the carriage via a lightweight measuring arm, which does not influence the motions of the model. Control signals from the measuring arm are directly linked to the carriage control computer and data logging system.

A test starts with the model secured to the carriage by means of stretched cords at a position 20 m from the wave generators with the port side (damaged side) facing the wave generators. The waves are started and the different wave components are successively sent away towards the model, with the shortest waves first, in such a way that the wave spectrum will be fully developed when all wave components reach the position of the model. Shortly before this the model is released from the carriage and the data logging system is started. The model is free to drift with the waves.

A test is interrupted when the average heel angle exceeds 20 deg or when the duration of the test exceeds 30 min full scale time.

The model is then secured to the carriage and drained from water. In order to be sure that there is no water left in the model before the next test the trim and heel are checked in a static measurement.

Photos of the test arrangement can be seen in Figure 5.

3.2 Measurements

The following parameters were measured at a sampling frequency of 50 Hz in model scale corresponding to 7.91 Hz in full scale.

Table 4 Measured parameters

Parameter	Unit
Wave height CL (123.6 m aft L/2 in the CL)	m
Wave height Port (100.5 m aft L/2, 92.1 m port of CL)	m
Surge	m
Sway	m
Heave	m
Roll	deg.
Pitch	deg.
Yaw	deg.

A definition of coordinate system is given in Enclosure 1.

Video recordings of all tests were made. Video cameras were positioned at bow and side perspective on the port side.

Photos from some the tests are shown in Figure 6.

3.3 Capzising tests

The test programme according to the table below was carried out in beam sea at zero speed.

Table 5 Test programme

$H_{1/3}$ [m]	T_p [sec.]	No. of tests
2.00	5.66	3
2.50	6.32	20
2.60	6.45	20
2.75	6.63	20
3.00	6.93	20

The wave spectra were generated according to the Jonswap formulation with $\gamma = 3.3$.

The waves were calibrated at a fixed position in the basin before the tests. The position was the same as the model's starting position i.e. 20 m from the wave generators.

4 Results

The results of the wave calibration are given in Appendix 01. Note that the waves with $H_{1/3} = 2.60$ m was calibrated during an ordinary capsizing test. Thus, the spectrum is the spectrum of the encountered waves. The mean drift speed was 1.27 knots.

In Appendix 02 time series plots of all tests are given. The plotted parameters are Wave height CL, low pass filtered and unfiltered roll and pitch and yaw. The low pass filter was a digital filter of the order of 256 with a cut-off frequency of 0.01 Hz.

In Appendix 03 statistical tables of each test are given.

An overview of the capsizing tests is shown in Figure 7.

In Appendix 04 the results from roll decay tests in intact and damaged condition are plotted and analysed. The used analysis method is described in Enclosure 2.

The results from the static measuring that preceded each test are given in tables in Appendix 05.

The contents of the DVD records are listed in Appendix 06.

Time series of all tests and static measuring are stored on a CD. A specification is given in Appendix 07.

The DVDs and the CD are available for downloading.

5 Figures, enclosures and appendices

Table of figures

Figure 1	Body plan
Figure 2	Hull damage
Figure 3	Flooded compartments
Figure 4	Photos of ship model
Figure 5	Photos of test arrangement
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Figure 7	Summary of test results

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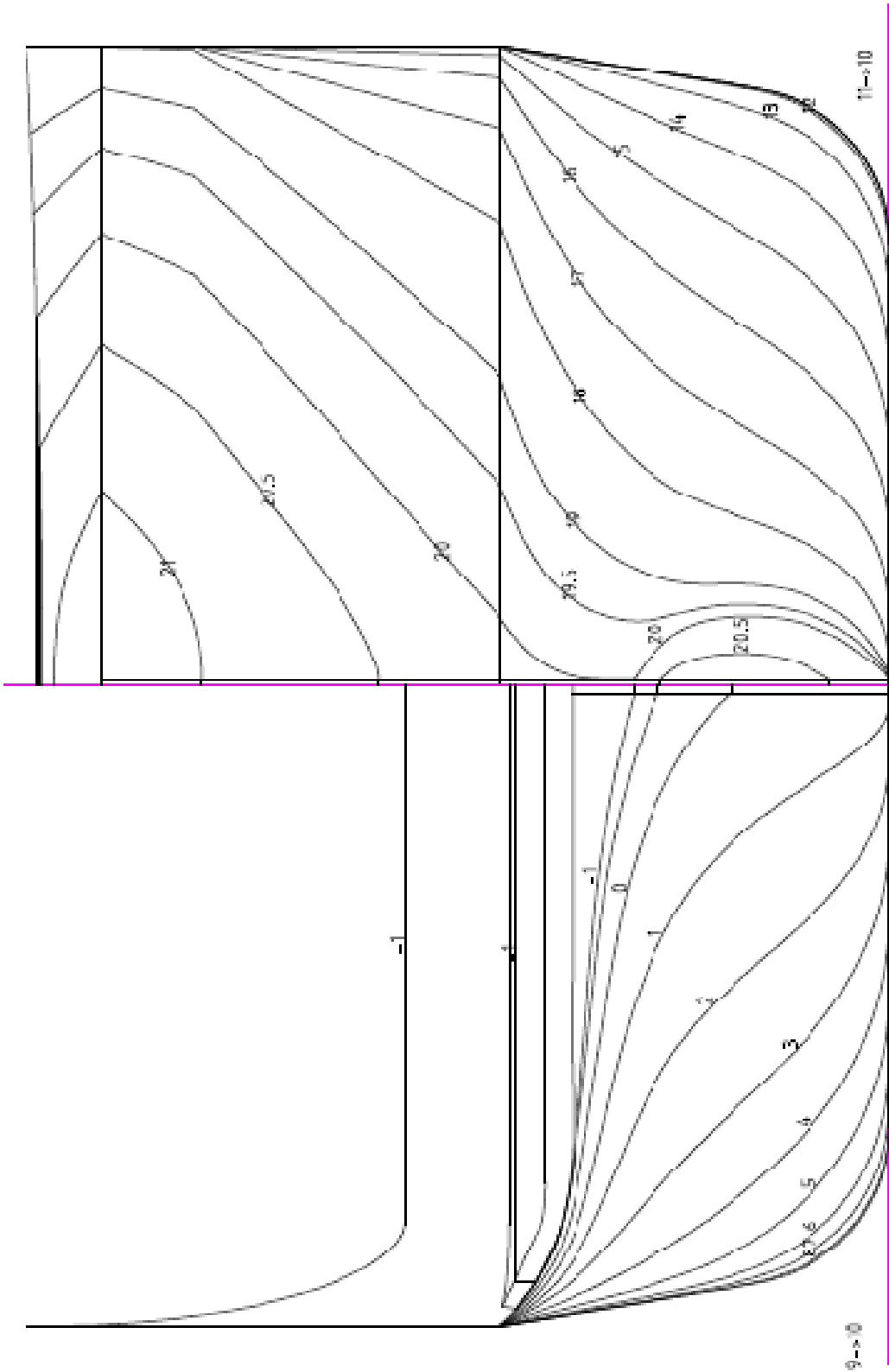
Enclosure 1	Definitions
Enclosure 2	Decay tests

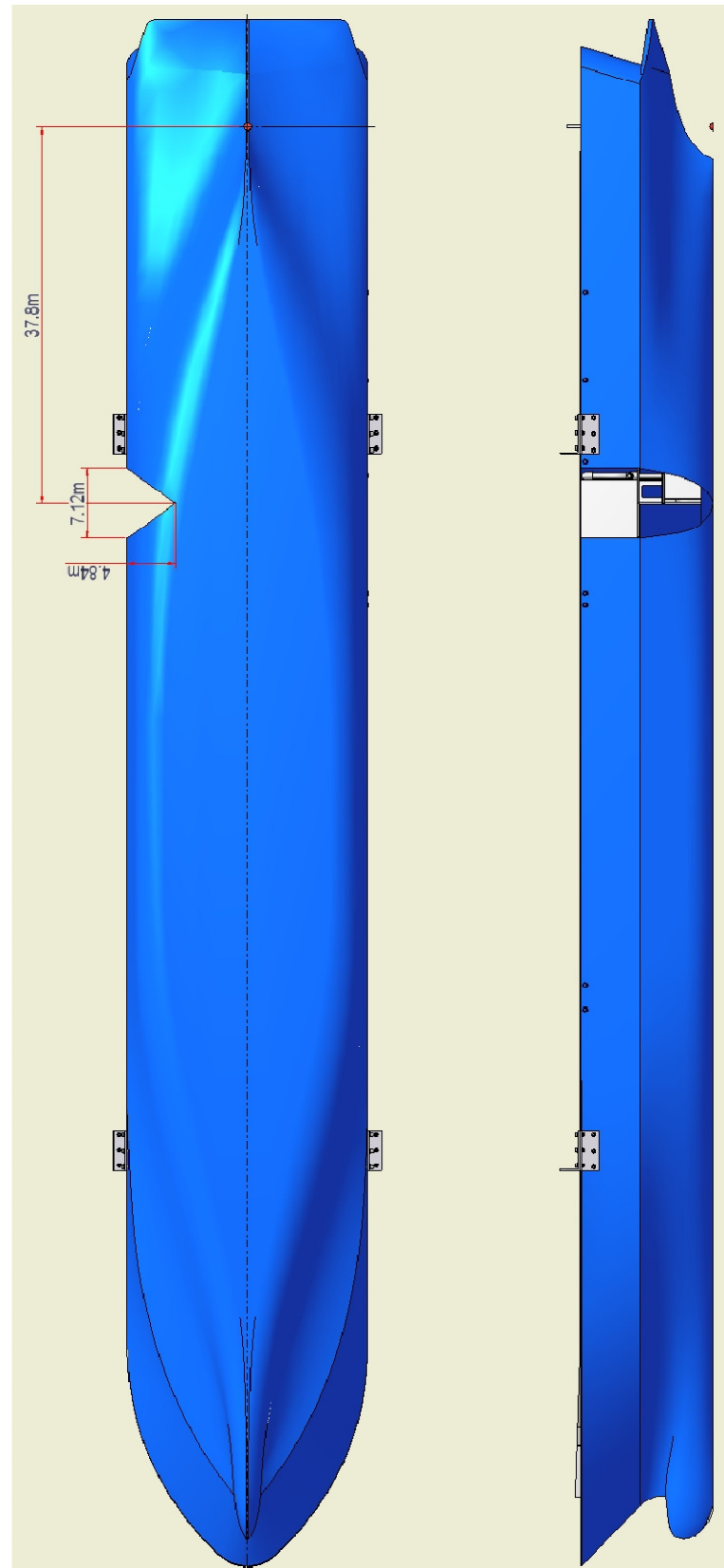
Table of appendices

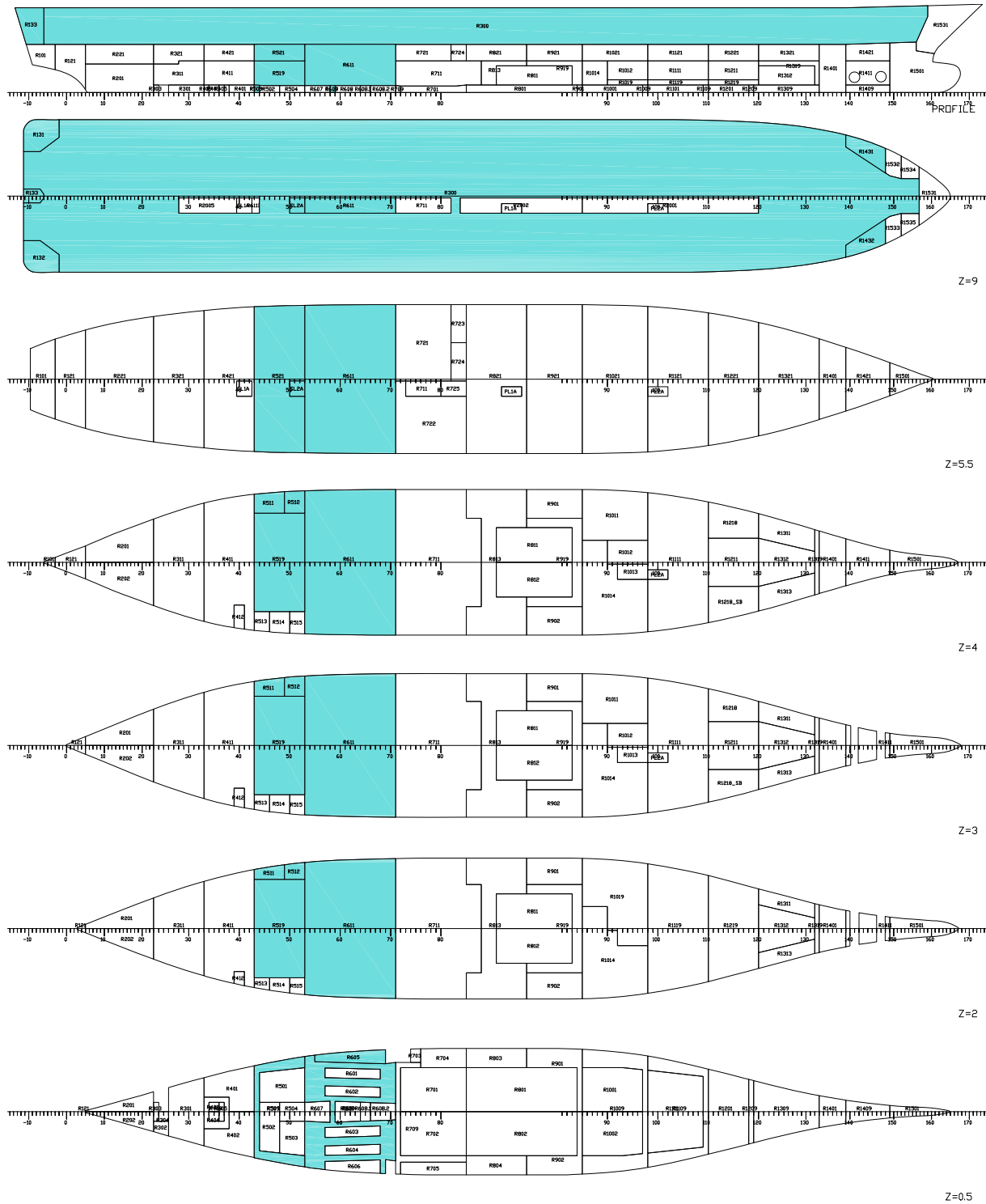
Appendix 01	Wave calibrations
Appendix 02	Plots of time series
Appendix 03	Statistical tables
Appendix 04	Roll decay results
Appendix 05	Static measuring before each test
Appendix 06	Video recordings from wave tests
Appendix 07	CD with time series from decay tests capsizing tests and static measuring

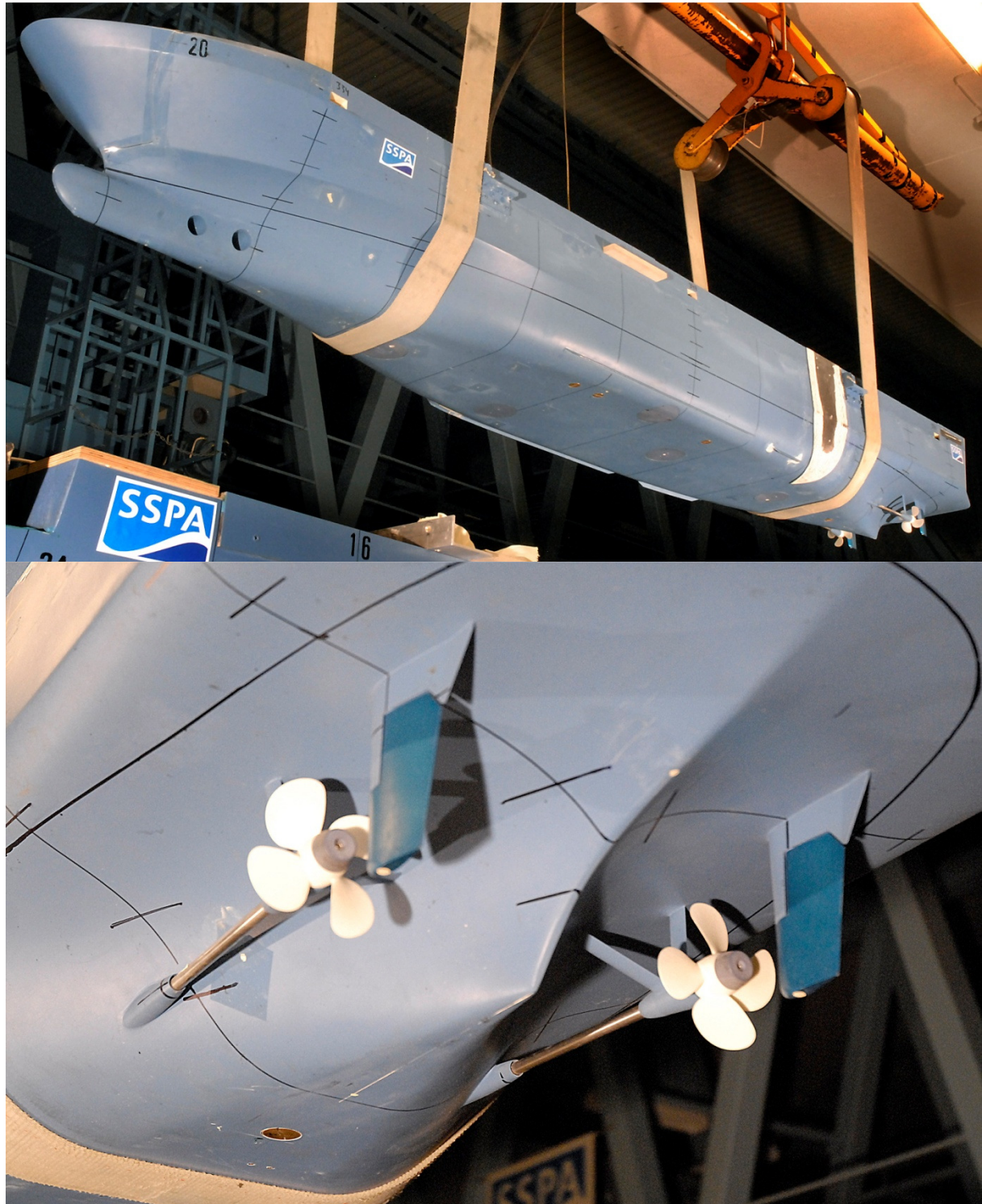
Body plan

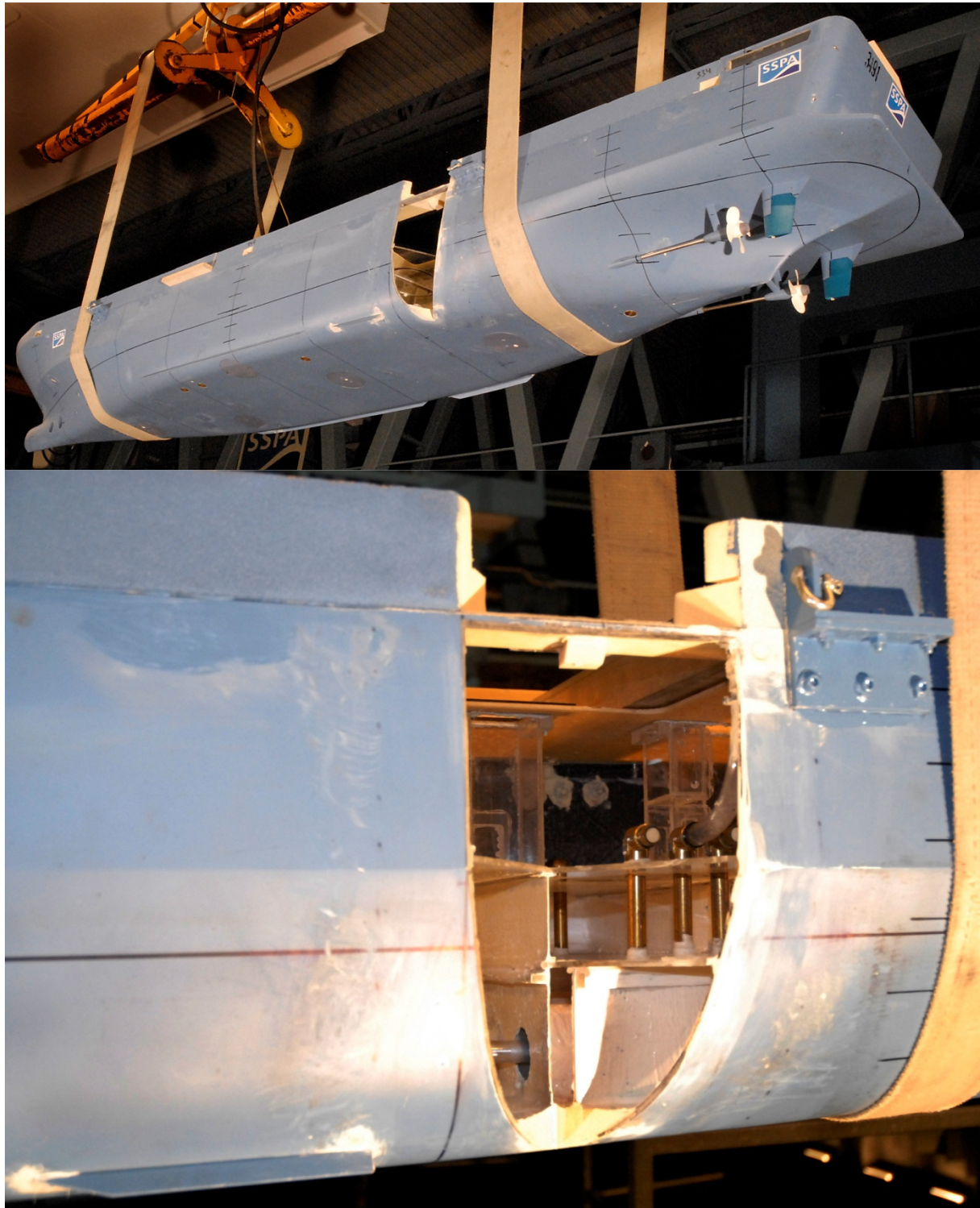
Figure: 1





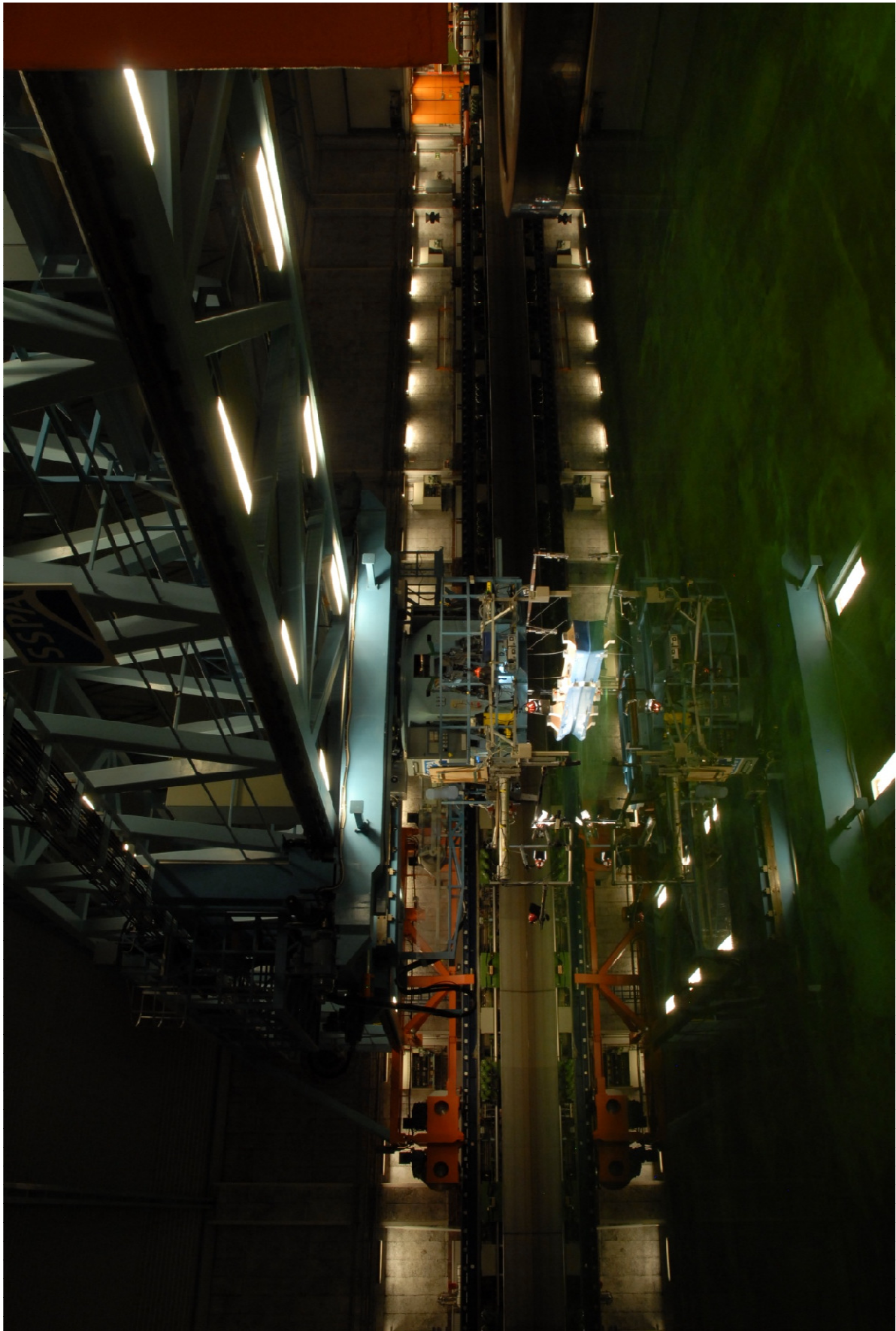






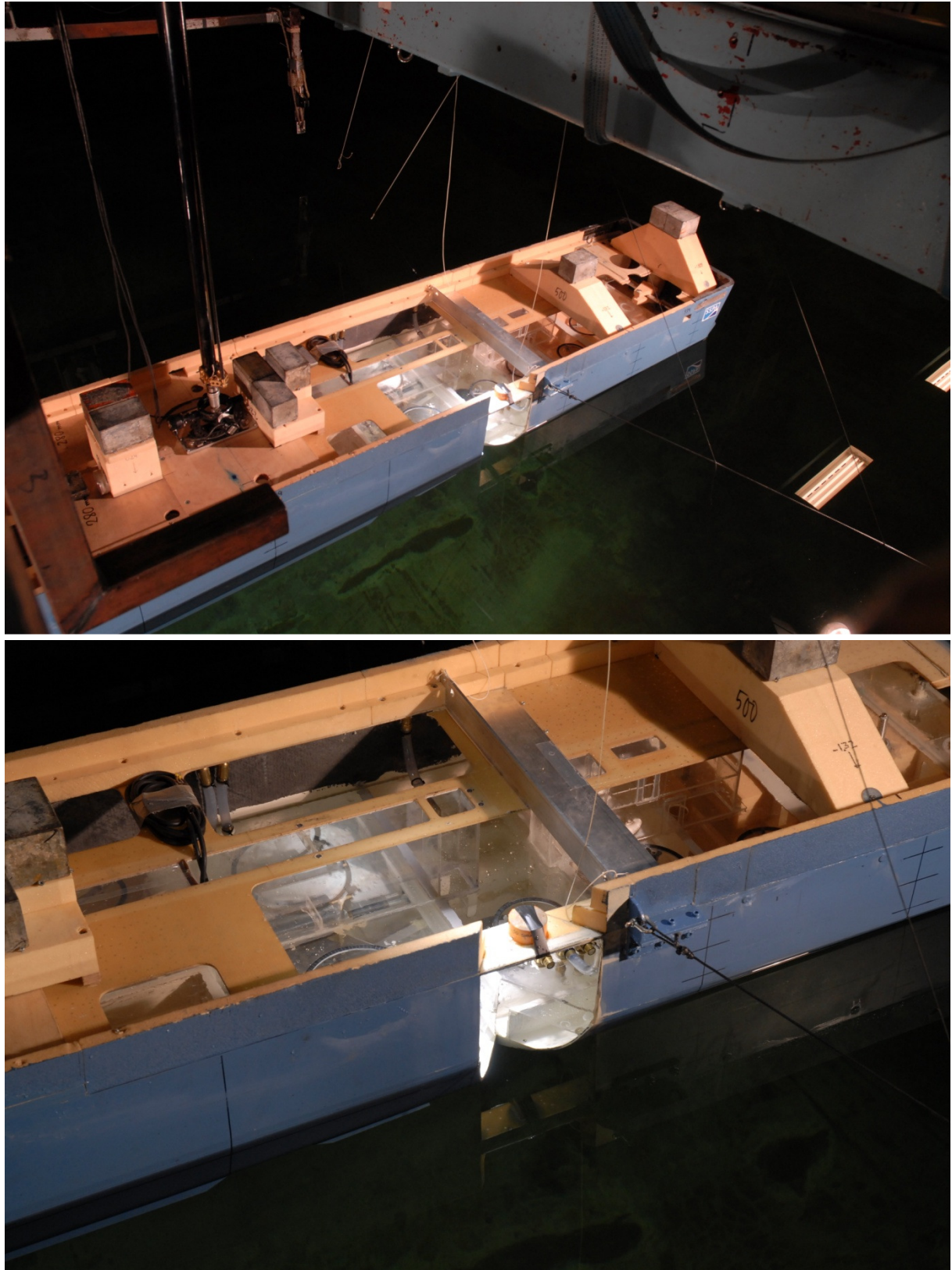
Photos of test arrangement

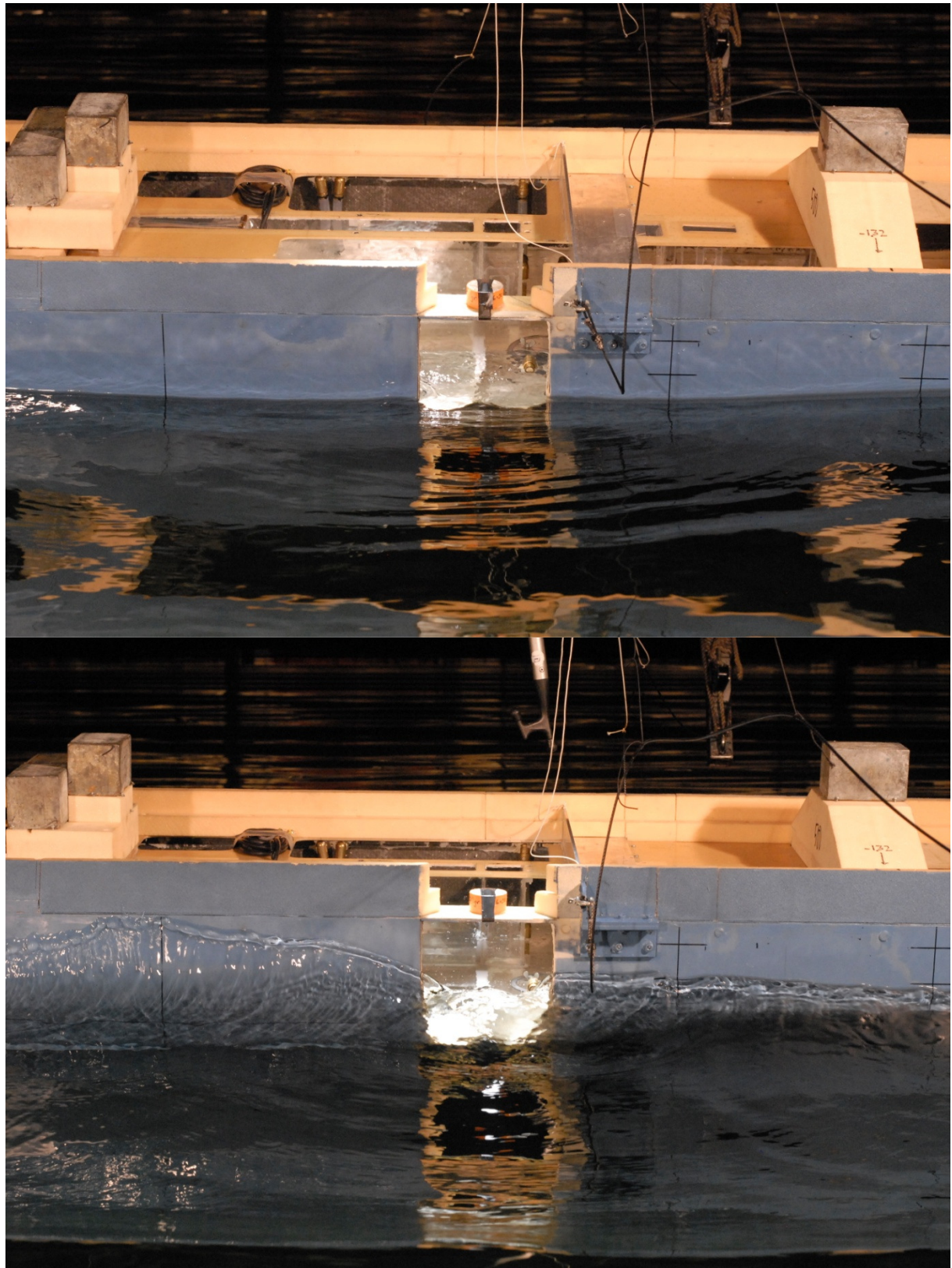
Figure: 5a



Photos of test arrangement

Figure: 5b

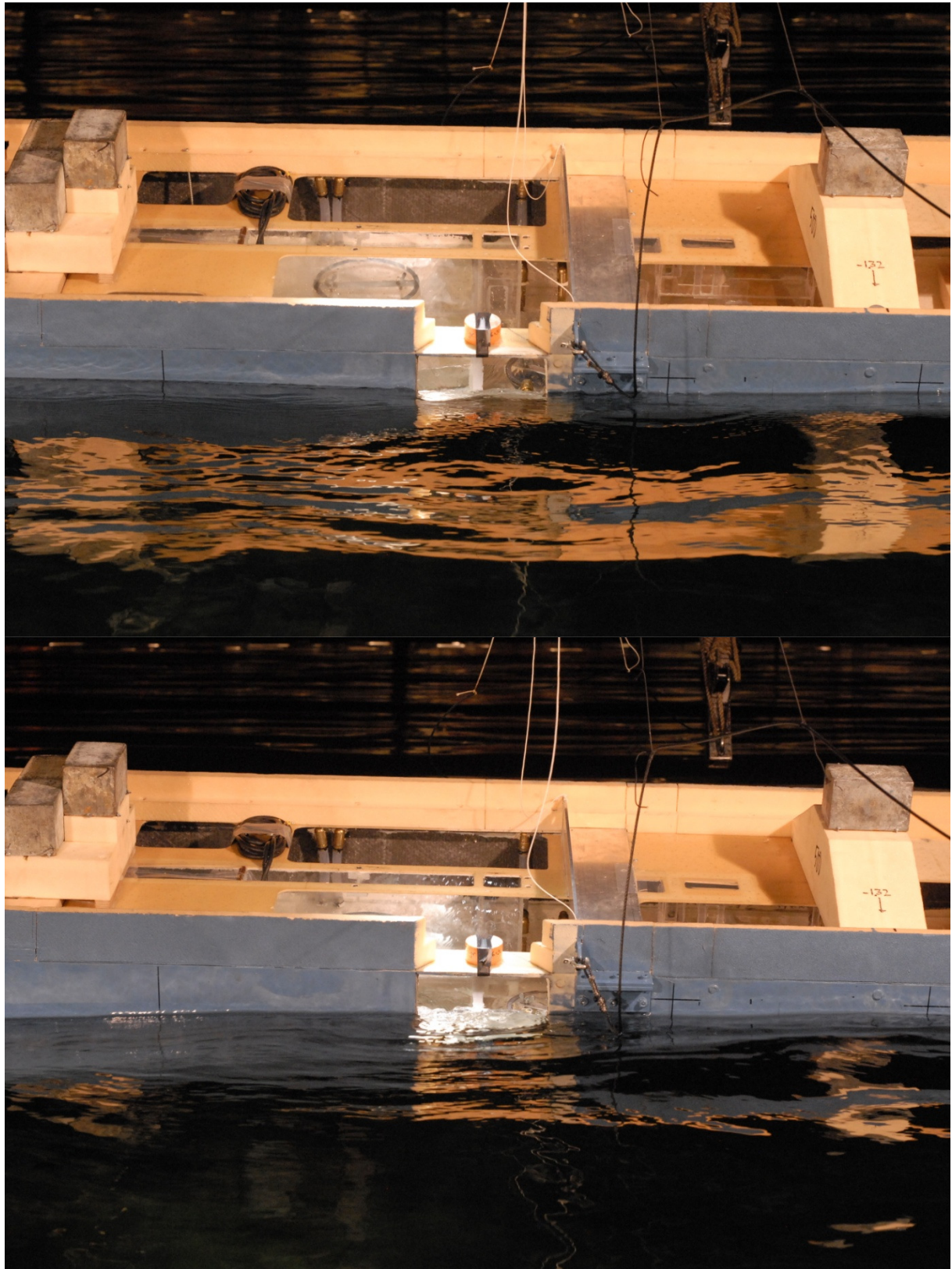


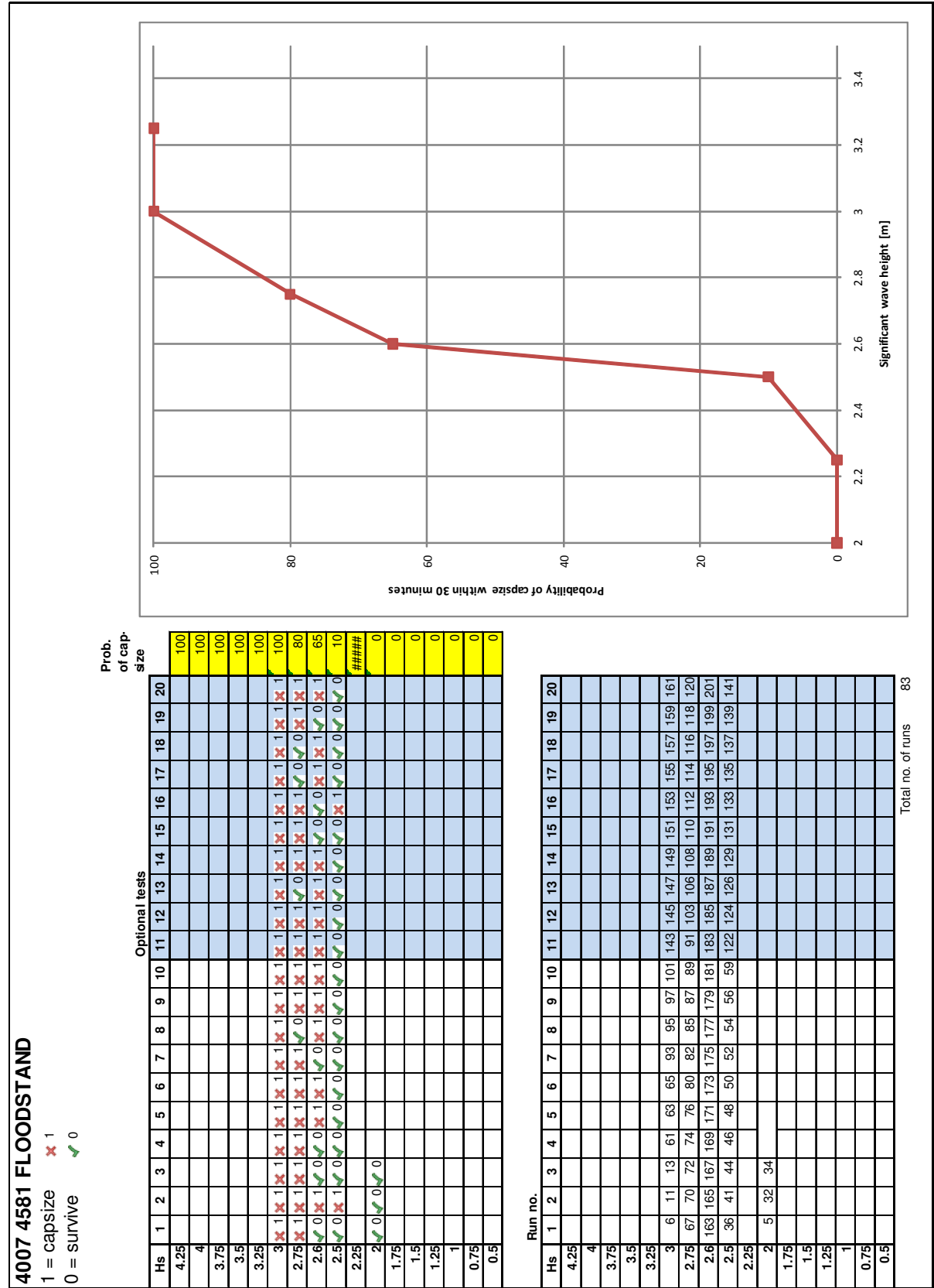


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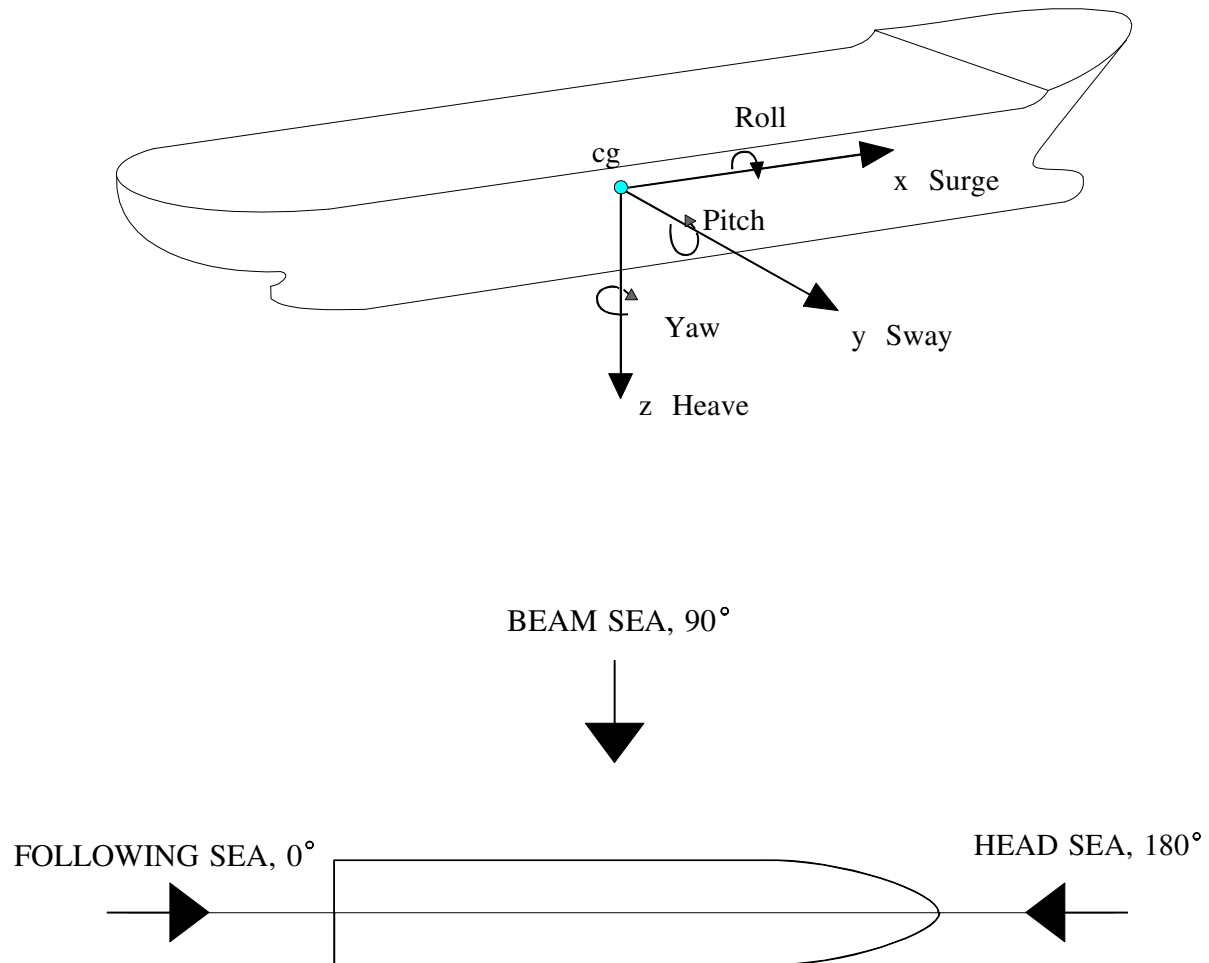
Photos from tests

Figure: 6b





Significant wave height [m]	Probability of capsizing within 30 minutes
2.2	100
2.5	0
3.2	100



Sign convention according to ITTC

- heading angle and yaw rate are positive for a turn to starboard
- rudder angle is negative for a turn to starboard
- longitudinal rudder force is positive pointing forward
- lateral rudder force is positive pointing starboard
 - rudder stock torque is positive clockwise seen from above
- wave height is positive downwards
- relative motion is positive for increasing freeboard
- lateral acceleration is positive to starboard (gravity component included)

All results given in this report are presented in full scale using Froude scaling.

A decay test is performed by giving the model a slight offset from its equilibrium where after the model is allowed to oscillate. Due to damping the amplitudes will successively decay

From the recorded decay curves the damping coefficients may be derived from the decrease of motion amplitude for the successive oscillations. Also natural period may be derived from these tests.

The decay may be described by:

$$\ddot{\phi} + 2\zeta\omega_0\dot{\phi} + \omega_0^2\phi + d\dot{\phi}|\dot{\phi}| = 0$$

Where: ζ is the linear damping
 ω_0 is the natural frequency
 d is the non-linear damping

At the evaluation of a decay test the non-linear damping (d) is assumed to be 0. The damping factor may then be derived according to the expression below.

$$\xi = \ln(\phi_0/\phi_n)/2\pi n$$

Where:

ξ = damping factor
 ϕ_0 = amplitude at first oscillation
 ϕ_n = amplitude at n:th oscillation
 n = number of oscillations
 \ln = natural logarithm

An example of a decay test is shown in the figure.

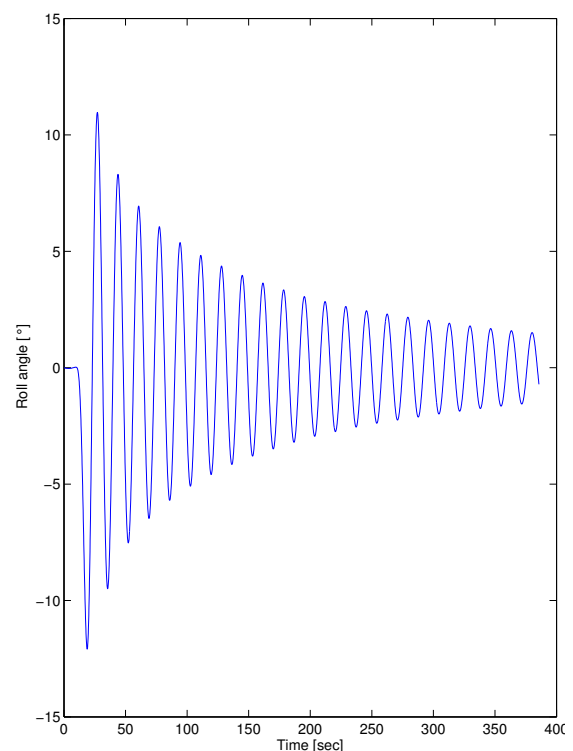


Table of contents

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
1	2.00	5.66	0	13
2	2.50	6.33	0	14
3	2.60	6.45	2 [*]	169 [*]
4	2.75	6.33	0	10
5	3.00	6.93	0	9

*) This wave spectrum was measured during an ordinary model test, This means that it is the spectrum of the encountered waves which explains the frequency shift compared to the theoretical spectrum. The mean drift speed was 1.27 knots.

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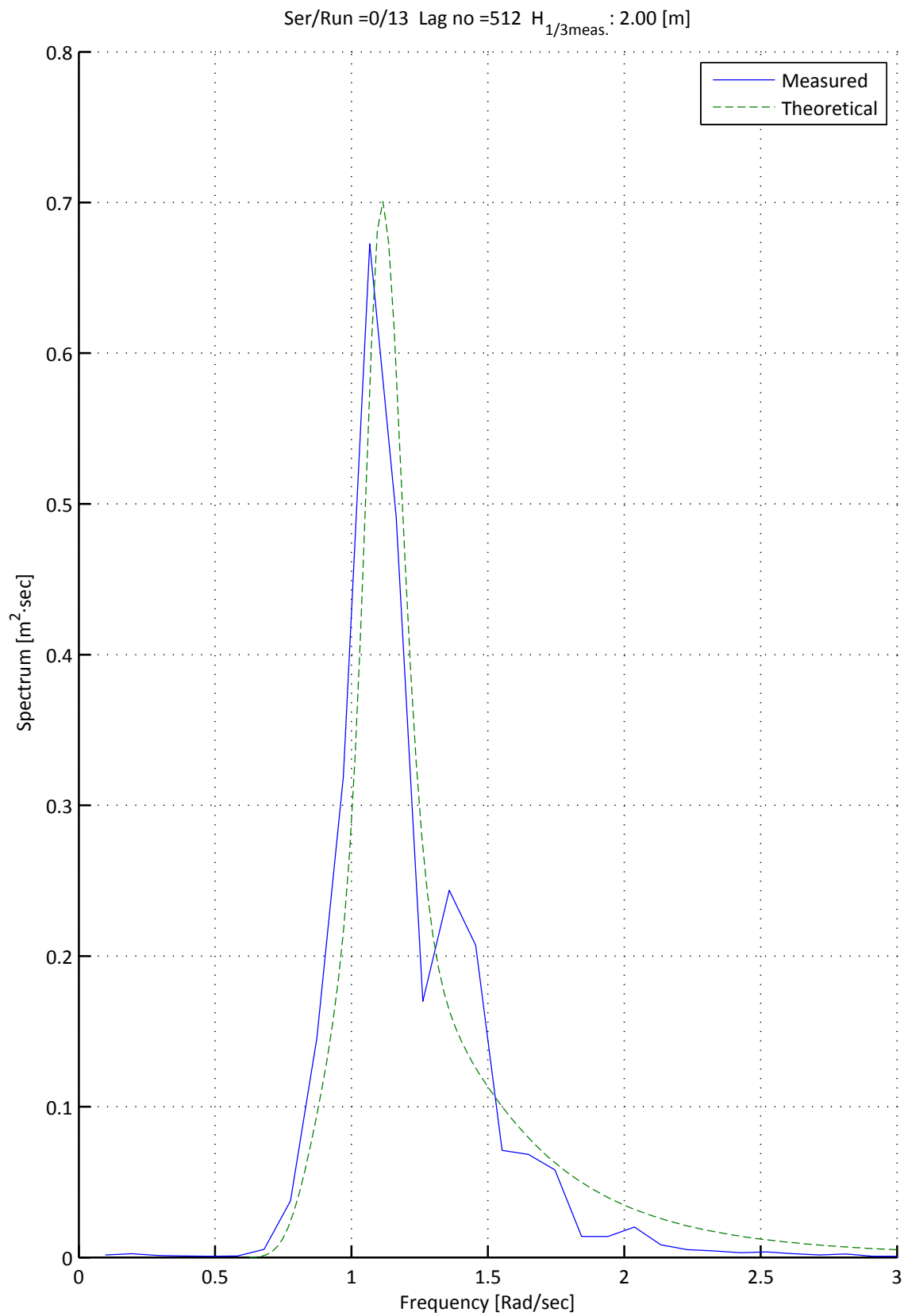
Wave calibration

$H_{1/3} = 2 \text{ m}$ $T_p = 5.66 \text{ sec}$ $\gamma = 3.3$

Jonswap spectrum

Appendix: 01

Figure: 1



FLOODSTAND

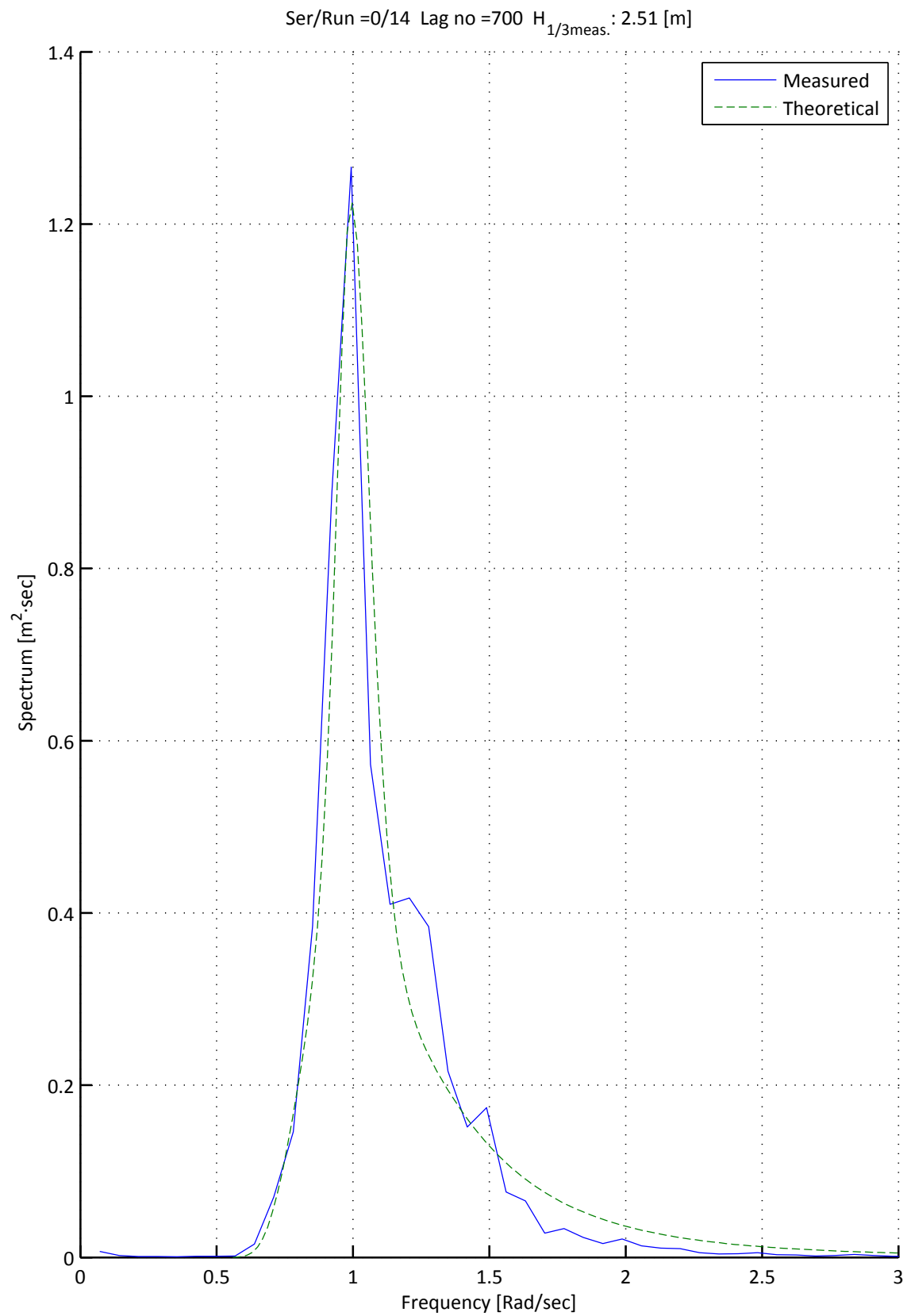
Wave calibration

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.33 \text{ sec}$ $\gamma = 3.3$

Jonswap spectrum

Appendix: 01

Figure: 2



FLOODSTAND

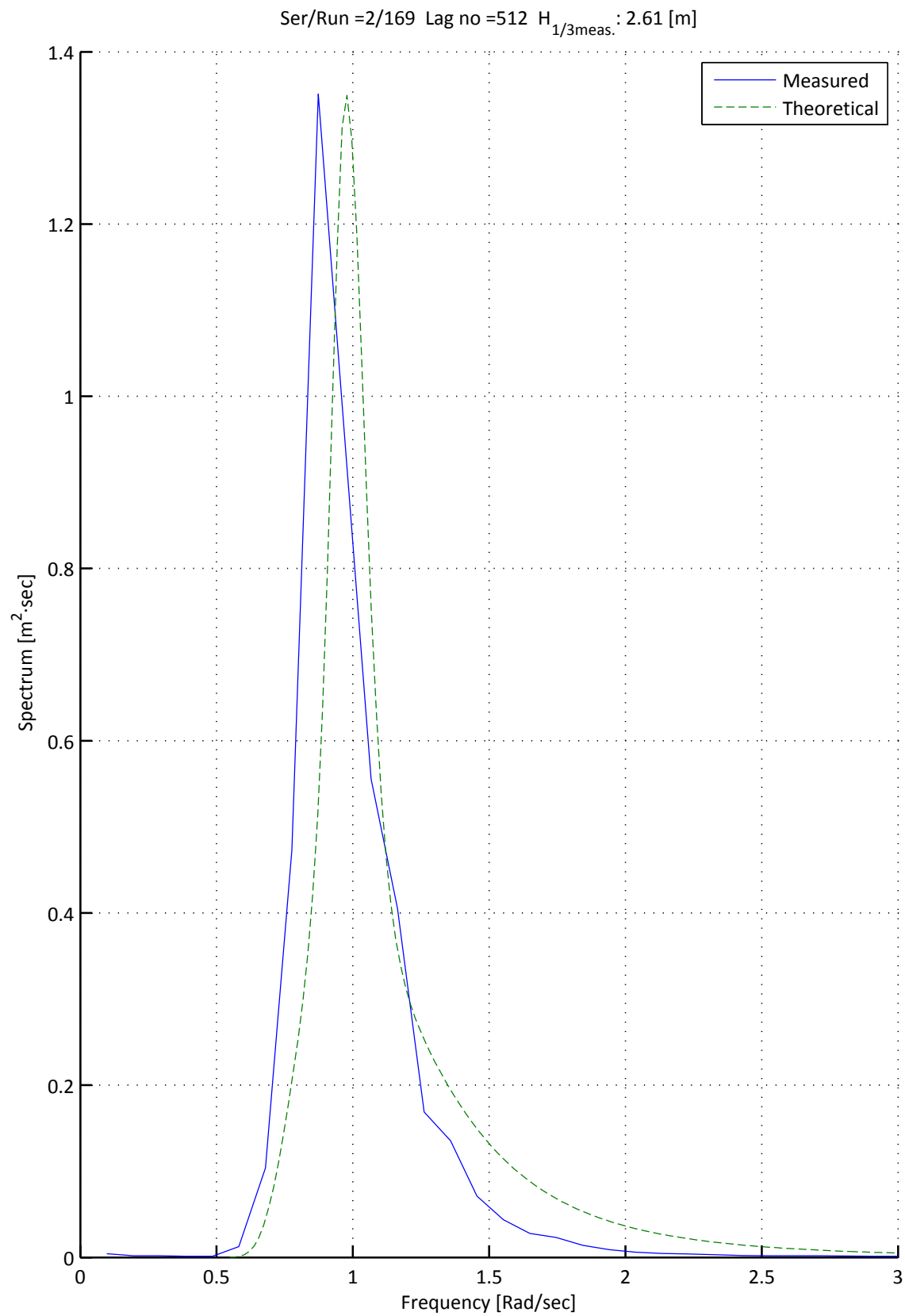
Wave calibration

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Jonswap spectrum

Appendix: 01

Figure: 3



FLOODSTAND

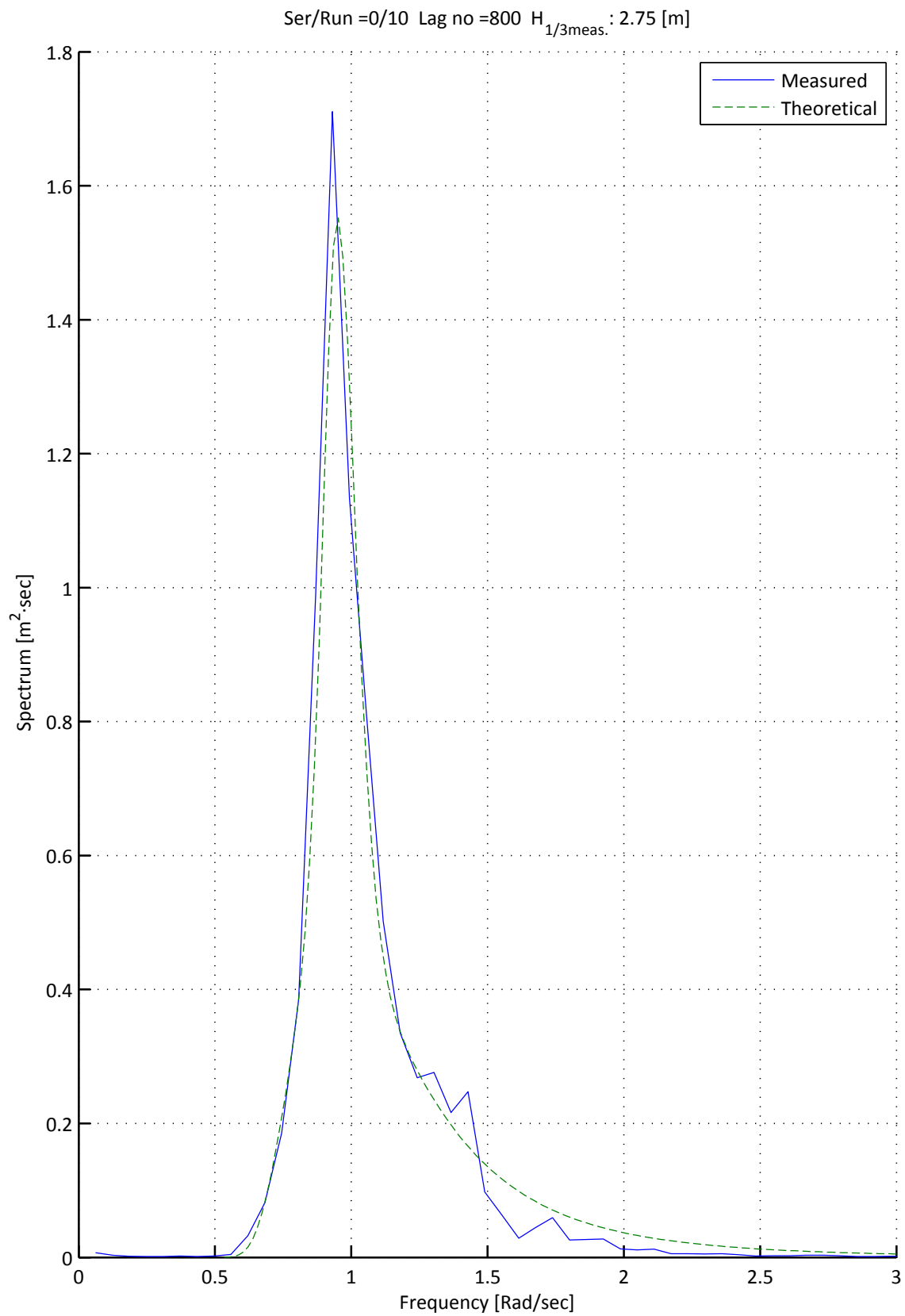
Wave calibration

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Jonswap spectrum

Appendix: 01

Figure: 4



FLOODSTAND

Wave calibration

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Jonswap spectrum

Appendix: 01

Figure: 5

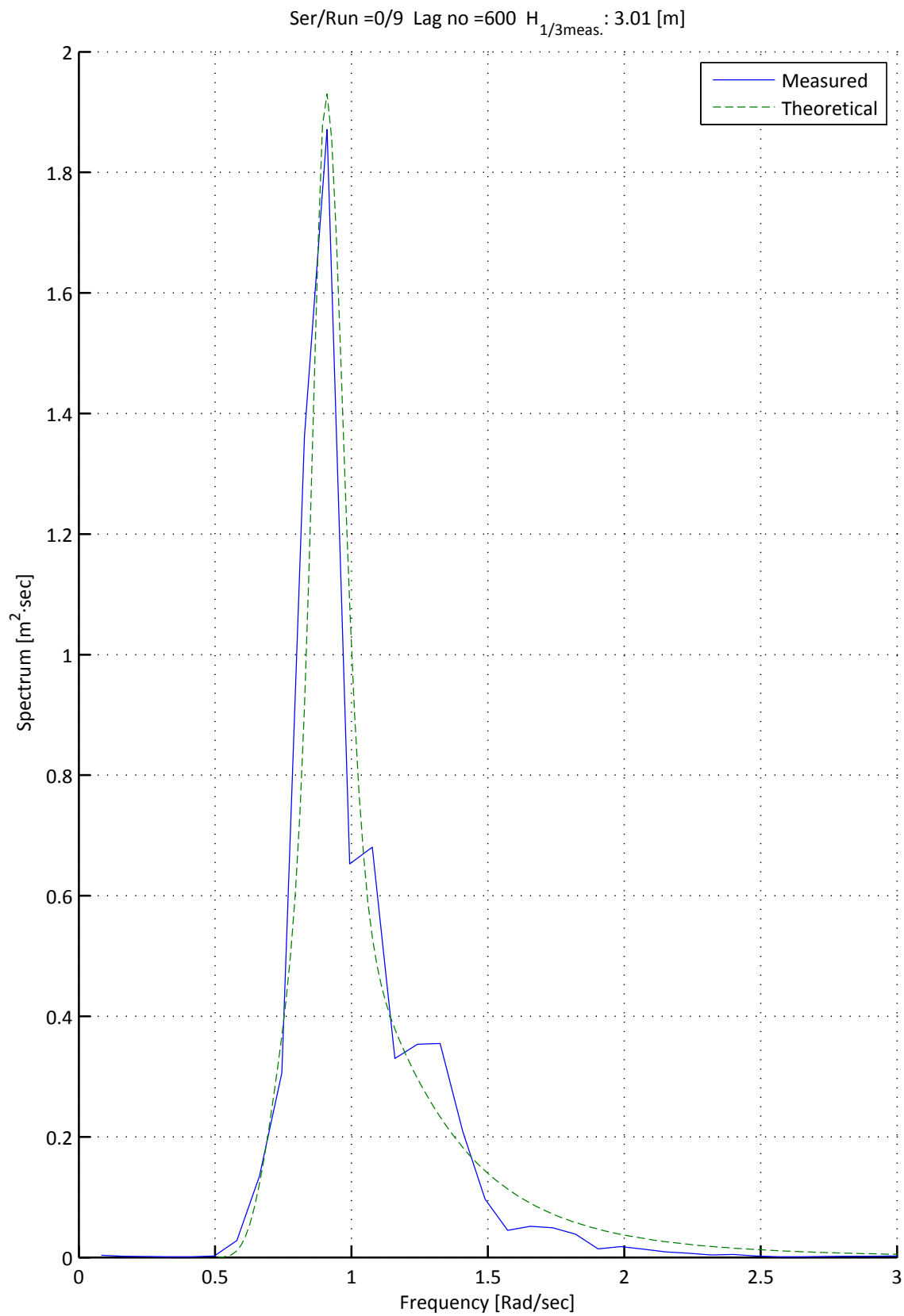


Table of contents

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
1	2.00	5.66	2	5
2	2.00	5.66	2	32
3	2.00	5.66	2	34
4	2.50	6.32	2	36
5	2.50	6.32	2	41
6	2.50	6.32	2	44
7	2.50	6.32	2	46
8	2.50	6.32	2	48
9	2.50	6.32	2	50
10	2.50	6.32	2	52
11	2.50	6.32	2	54
12	2.50	6.32	2	56
13	2.50	6.32	2	59
14	2.50	6.32	2	122
15	2.50	6.32	2	124
16	2.50	6.32	2	126
17	2.50	6.32	2	129
18	2.50	6.32	2	131
19	2.50	6.32	2	133
20	2.50	6.32	2	135
21	2.50	6.32	2	137
22	2.50	6.32	2	139

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
23	2.50	6.32	2	141
24	2.60	6.45	2	163
25	2.60	6.45	2	165
26	2.60	6.45	2	167
27	2.60	6.45	2	169
28	2.60	6.45	2	171
29	2.60	6.45	2	173
30	2.60	6.45	2	175
31	2.60	6.45	2	177
32	2.60	6.45	2	179
33	2.60	6.45	2	181
34	2.60	6.45	2	183
35	2.60	6.45	2	185
36	2.60	6.45	2	187
37	2.60	6.45	2	189
38	2.60	6.45	2	191
39	2.60	6.45	2	193
40	2.60	6.45	2	195
41	2.60	6.45	2	197
42	2.60	6.45	2	199
43	2.60	6.45	2	201
44	2.75	6.63	2	67
45	2.75	6.63	2	70
46	2.75	6.63	2	72

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
47	2.75	6.63	2	74
48	2.75	6.63	2	76
49	2.75	6.63	2	80
50	2.75	6.63	2	82
51	2.75	6.63	2	85
52	2.75	6.63	2	87
53	2.75	6.63	2	89
54	2.75	6.63	2	91
55	2.75	6.63	2	103
56	2.75	6.63	2	106
57	2.75	6.63	2	108
58	2.75	6.63	2	110
59	2.75	6.63	2	112
60	2.75	6.63	2	114
61	2.75	6.63	2	116
62	2.75	6.63	2	118
63	2.75	6.63	2	120
64	3.00	6.93	2	6
65	3.00	6.93	2	11
66	3.00	6.93	2	13
67	3.00	6.93	2	61
68	3.00	6.93	2	63
69	3.00	6.93	2	65
70	3.00	6.93	2	93

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
71	3.00	6.93	2	95
72	3.00	6.63	2	97
73	3.00	6.93	2	101
74	3.00	6.93	2	143
75	3.00	6.93	2	145
76	3.00	6.93	2	147
77	3.00	6.93	2	149
78	3.00	6.93	2	151
79	3.00	6.93	2	153
80	3.00	6.93	2	155
81	3.00	6.93	2	157
82	3.00	6.93	2	159
83	3.00	6.93	2	161

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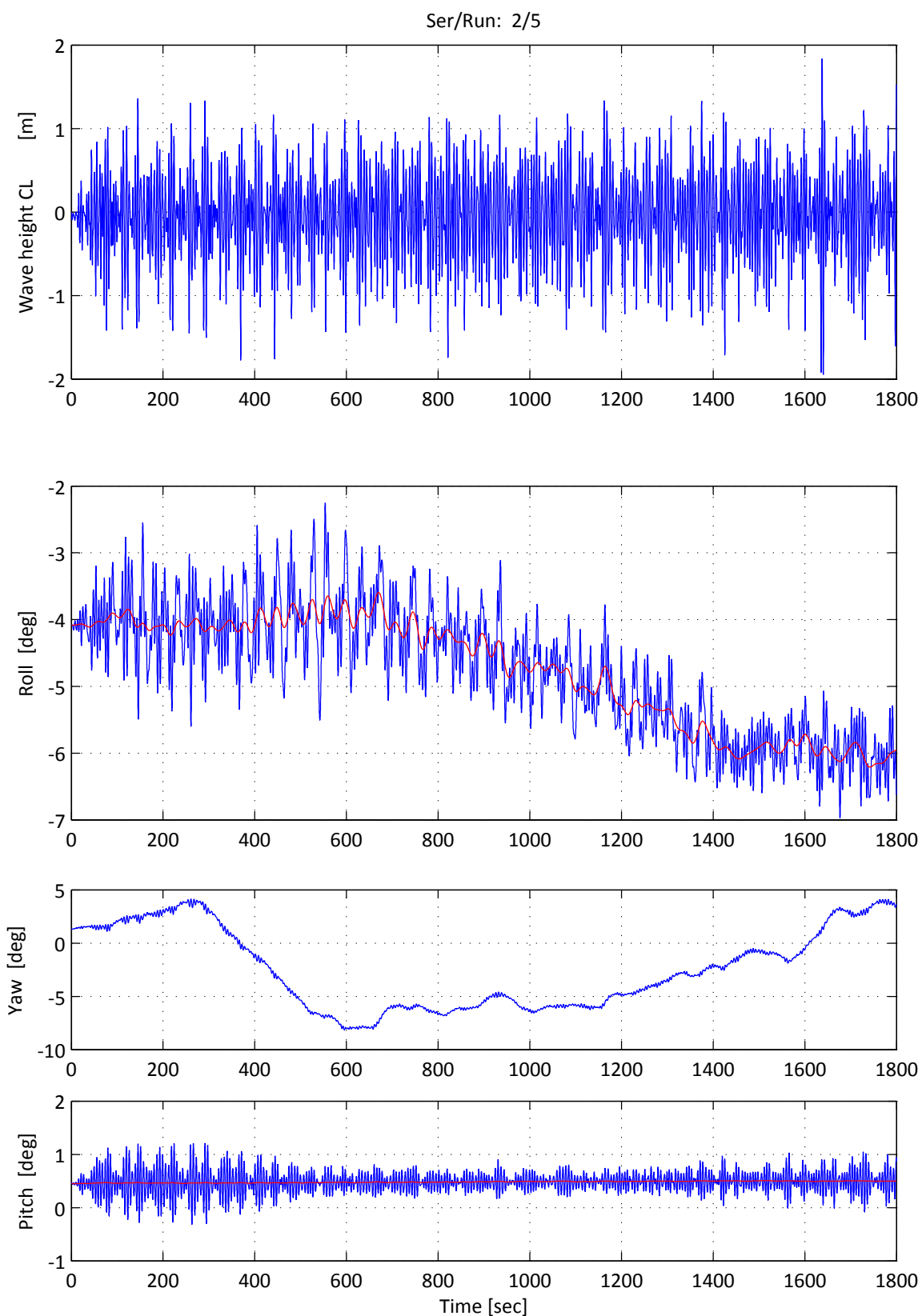
Jonswap spectrum

$H_{1/3} = 2 \text{ m}$ $T_p = 5.66 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 1



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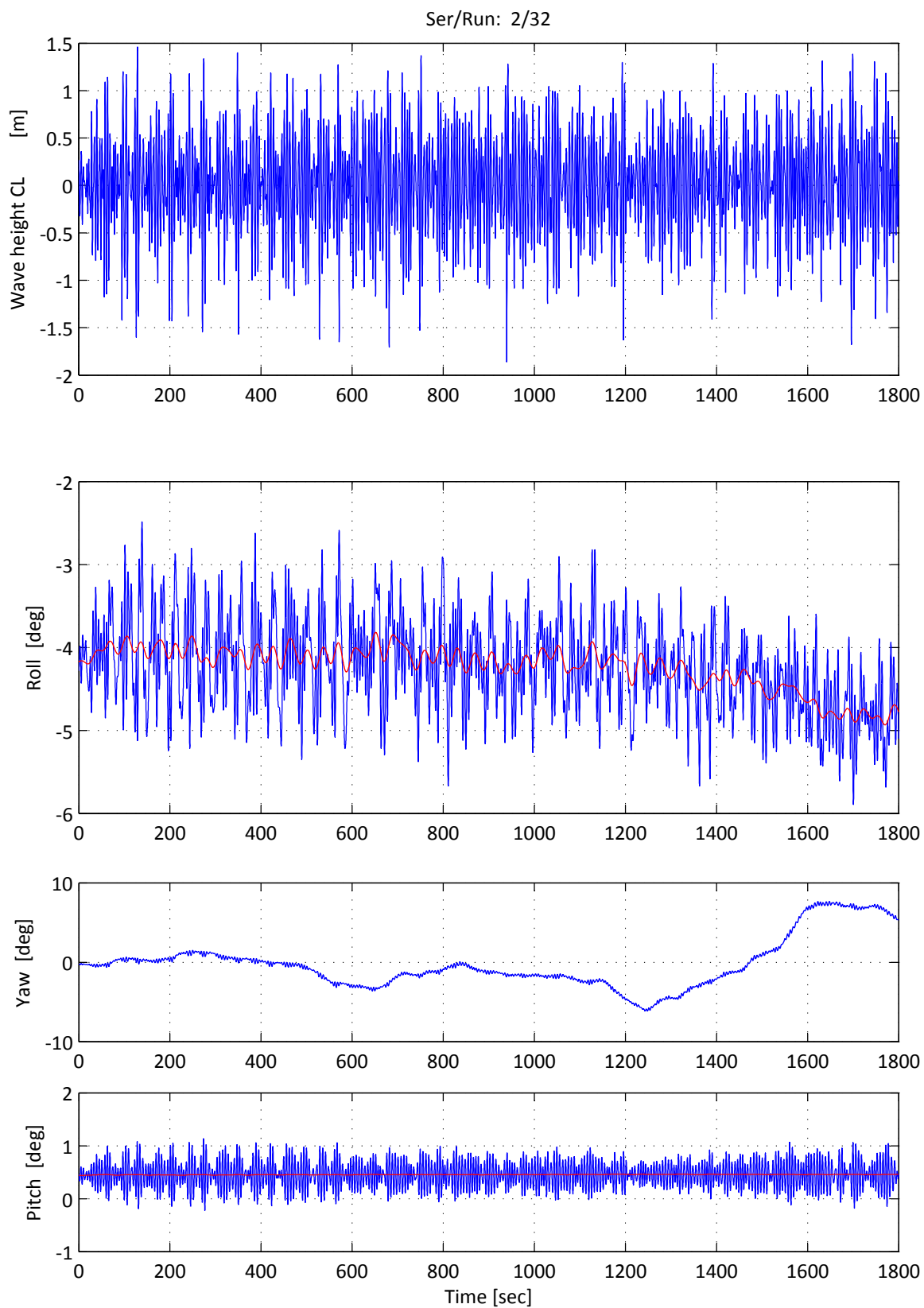
Jonswap spectrum

$H_{1/3} = 2 \text{ m}$ $T_p = 5.66 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 2



FLOODSTAND

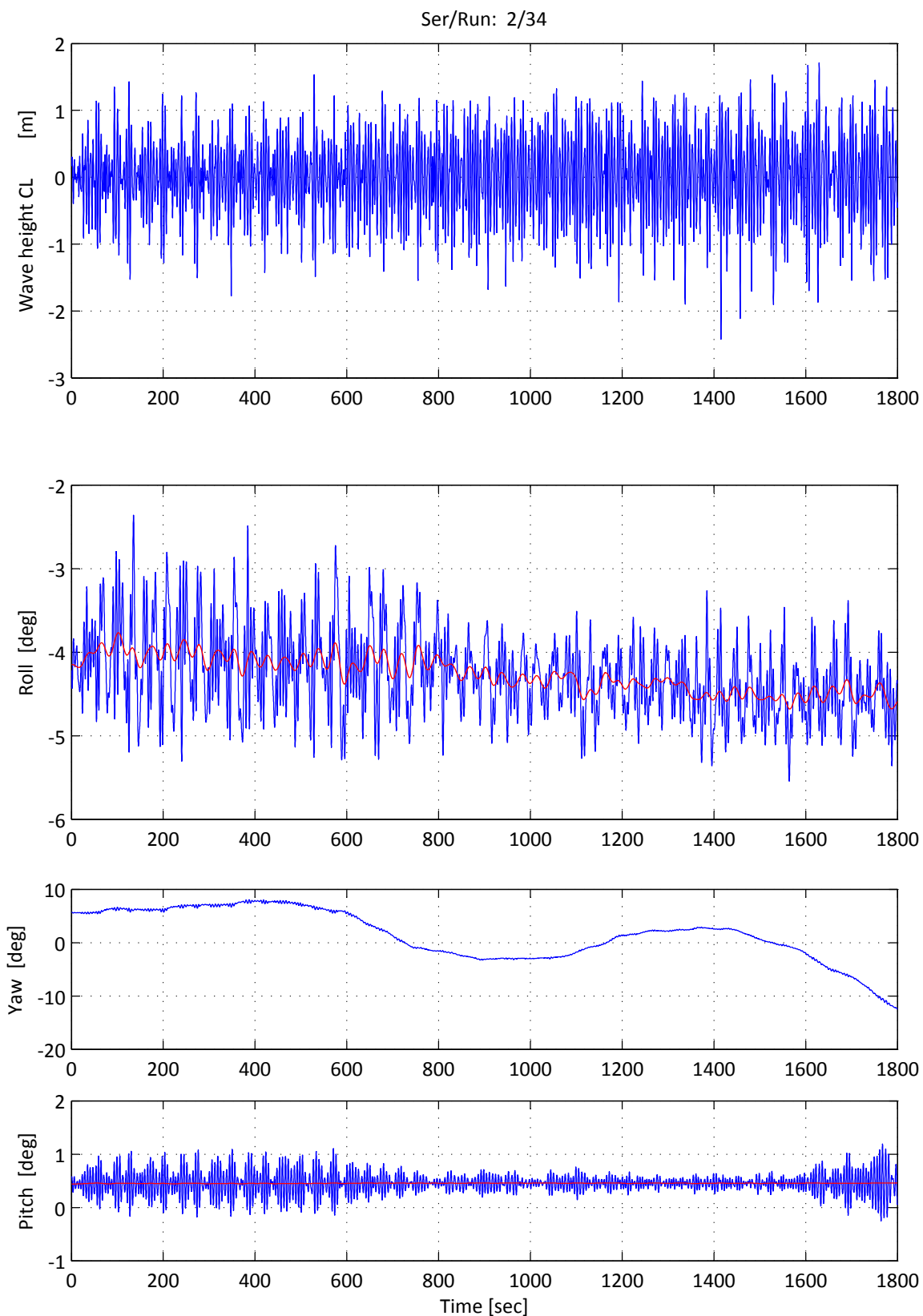
Jonswap spectrum

$H_{1/3} = 2 \text{ m}$ $T_p = 5.66 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 3



FLOODSTAND

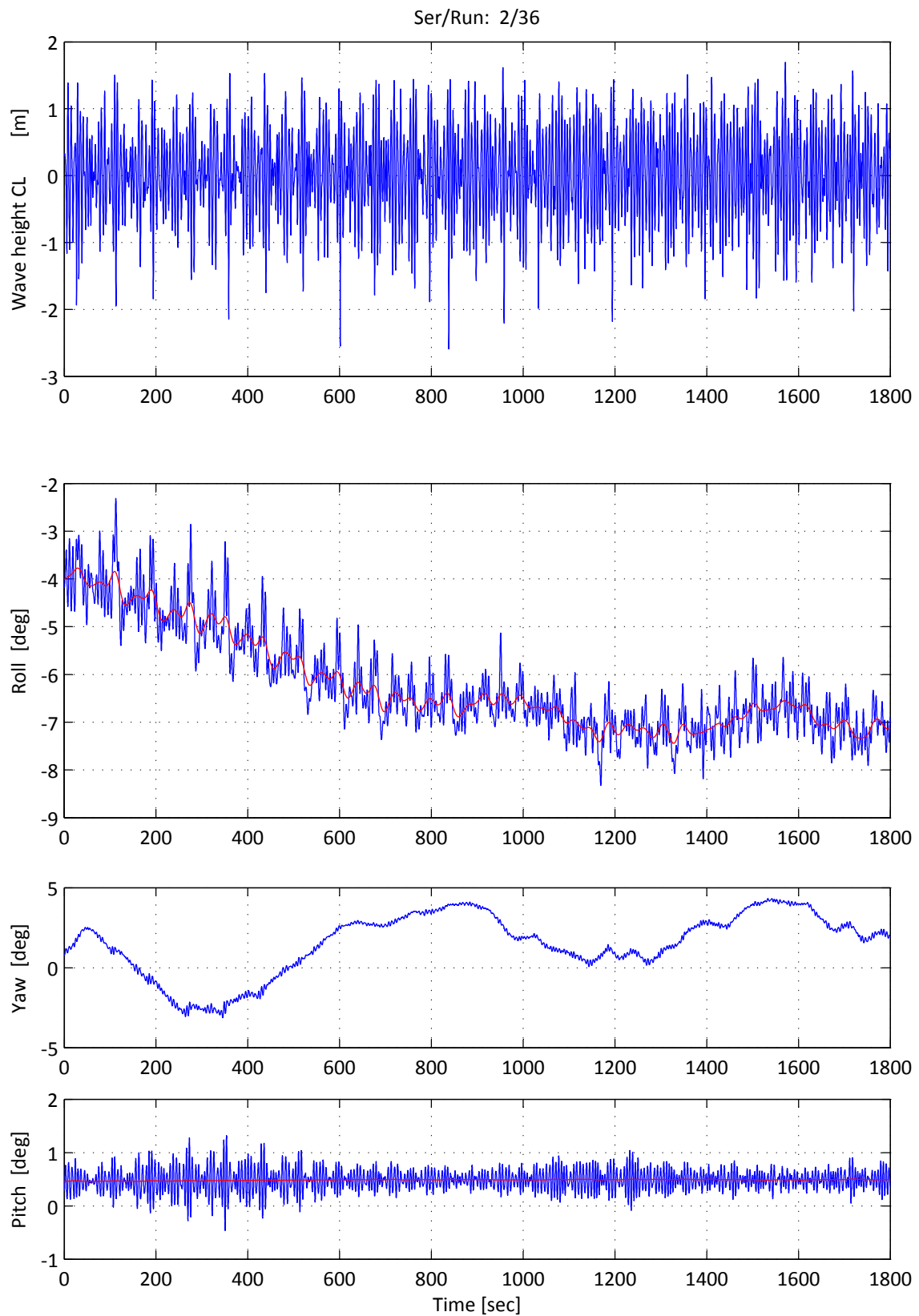
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 4



FLOODSTAND

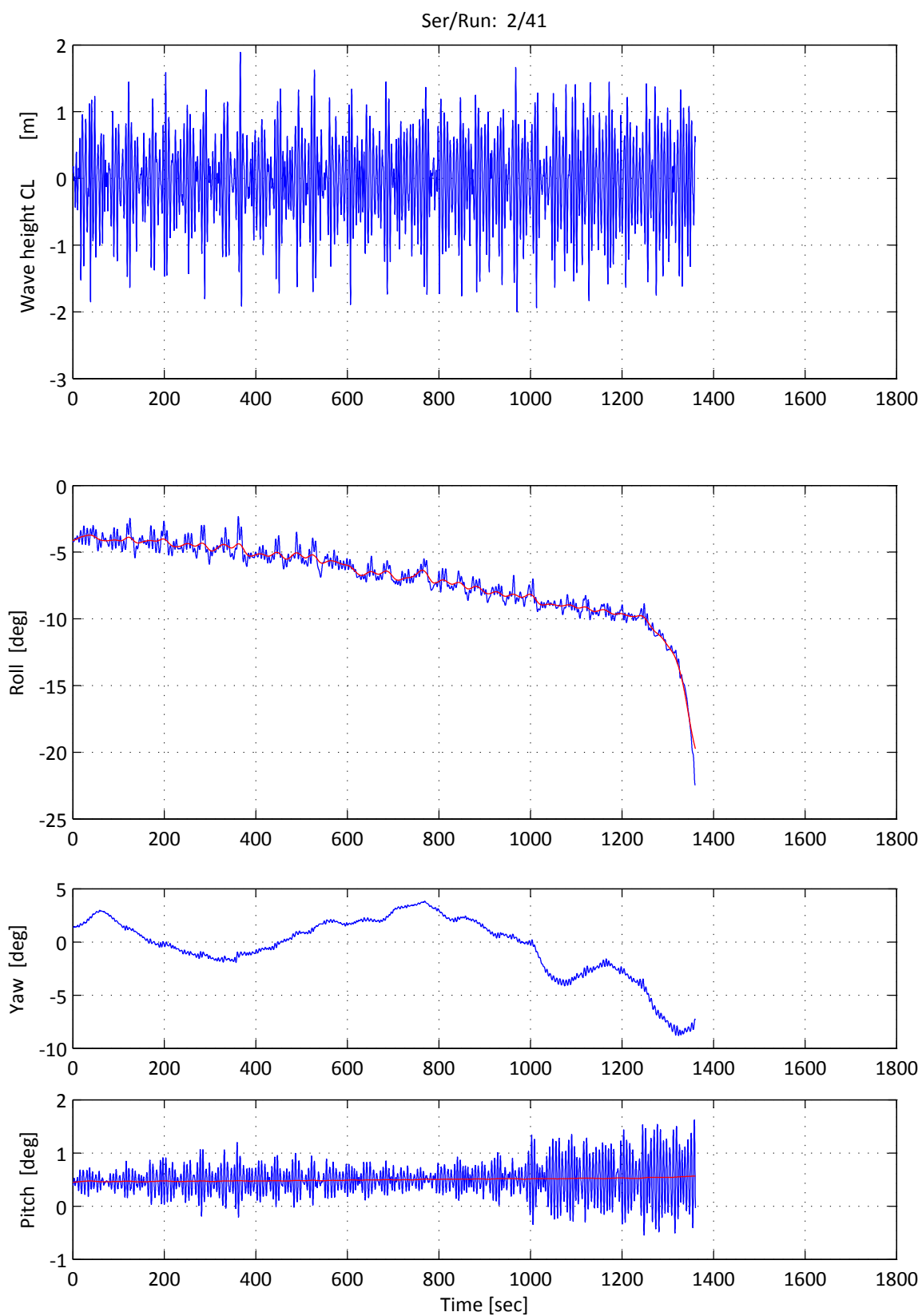
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 5



FLOODSTAND

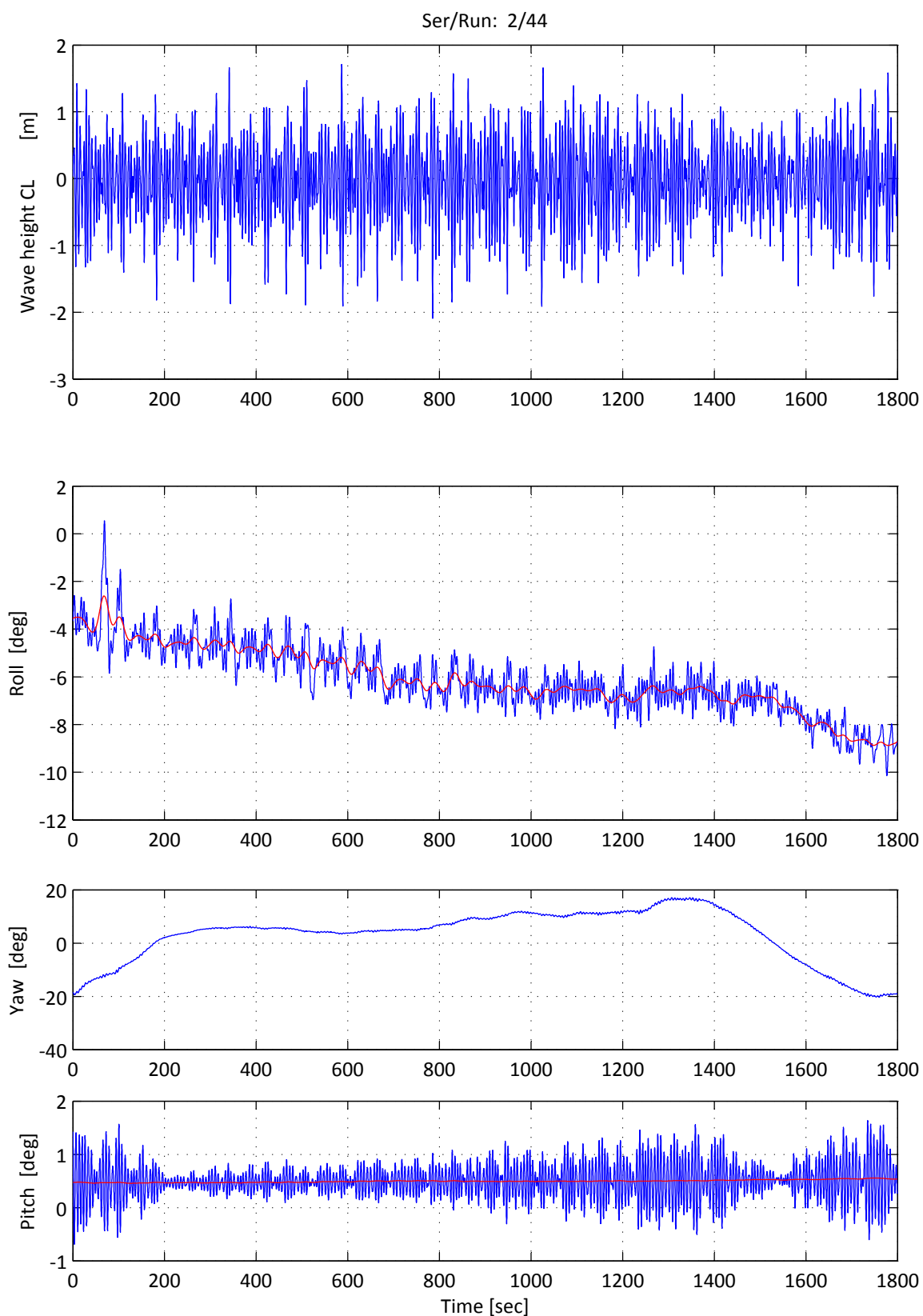
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 6



FLOODSTAND

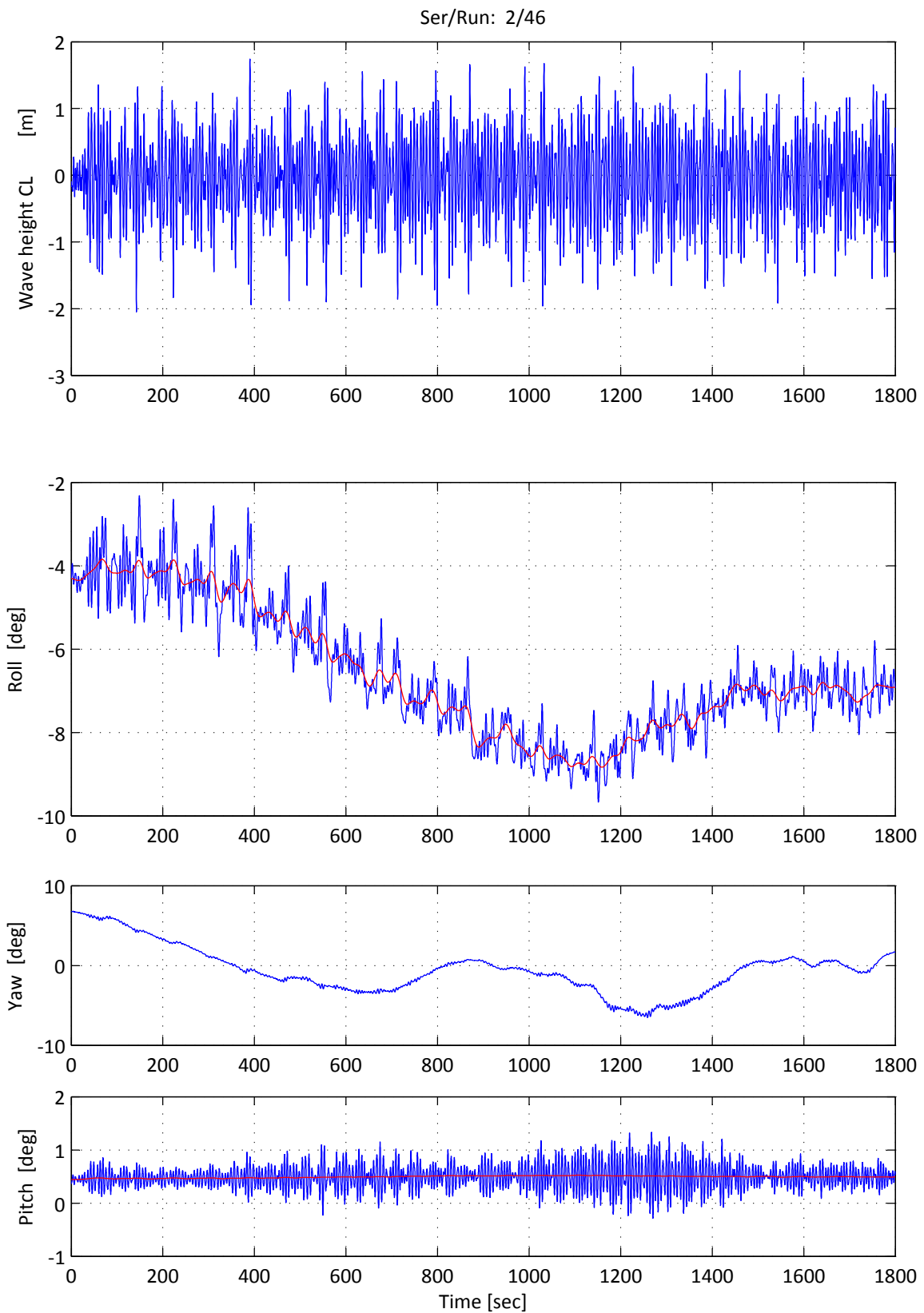
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 7



FLOODSTAND

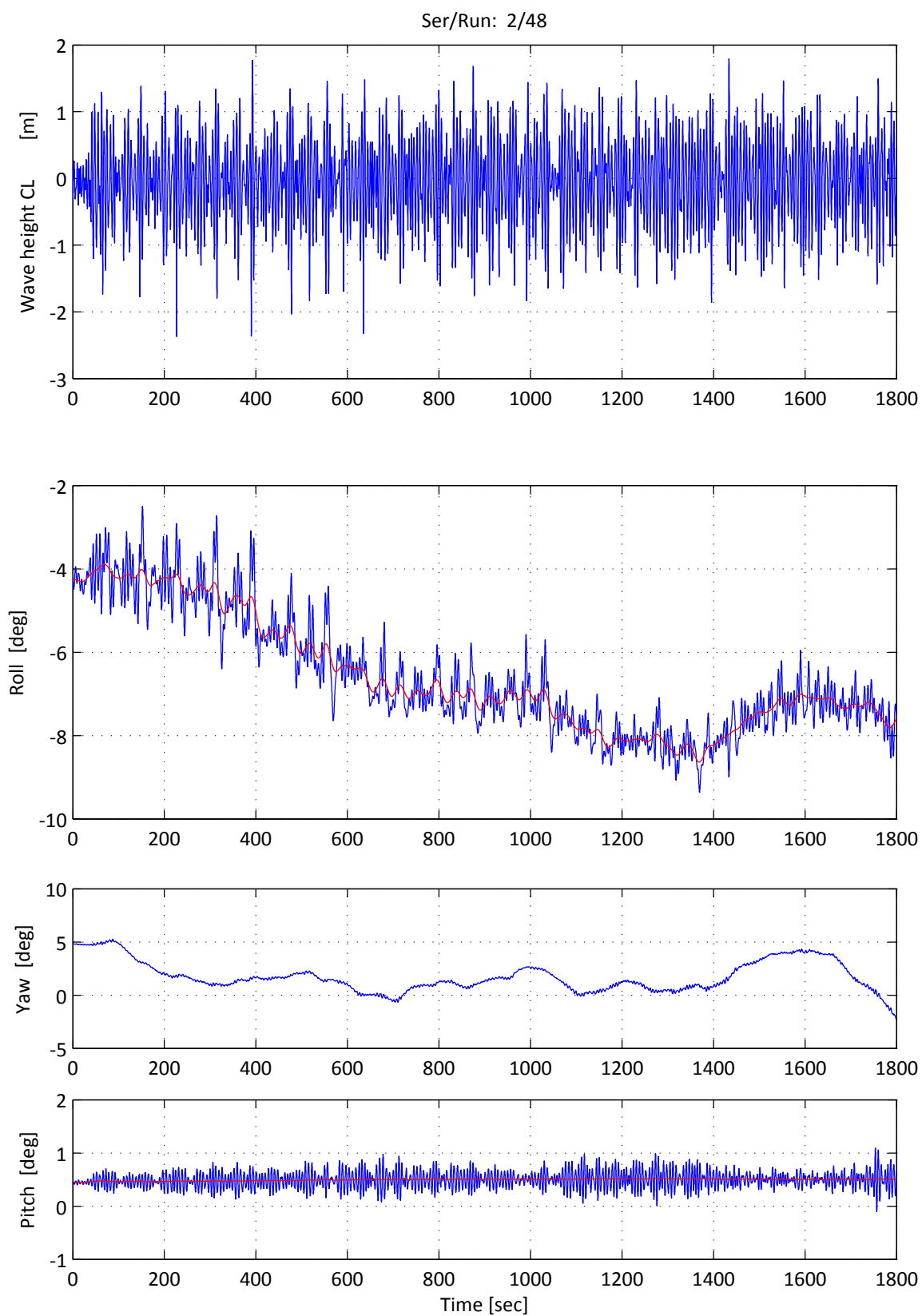
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 8



FLOODSTAND

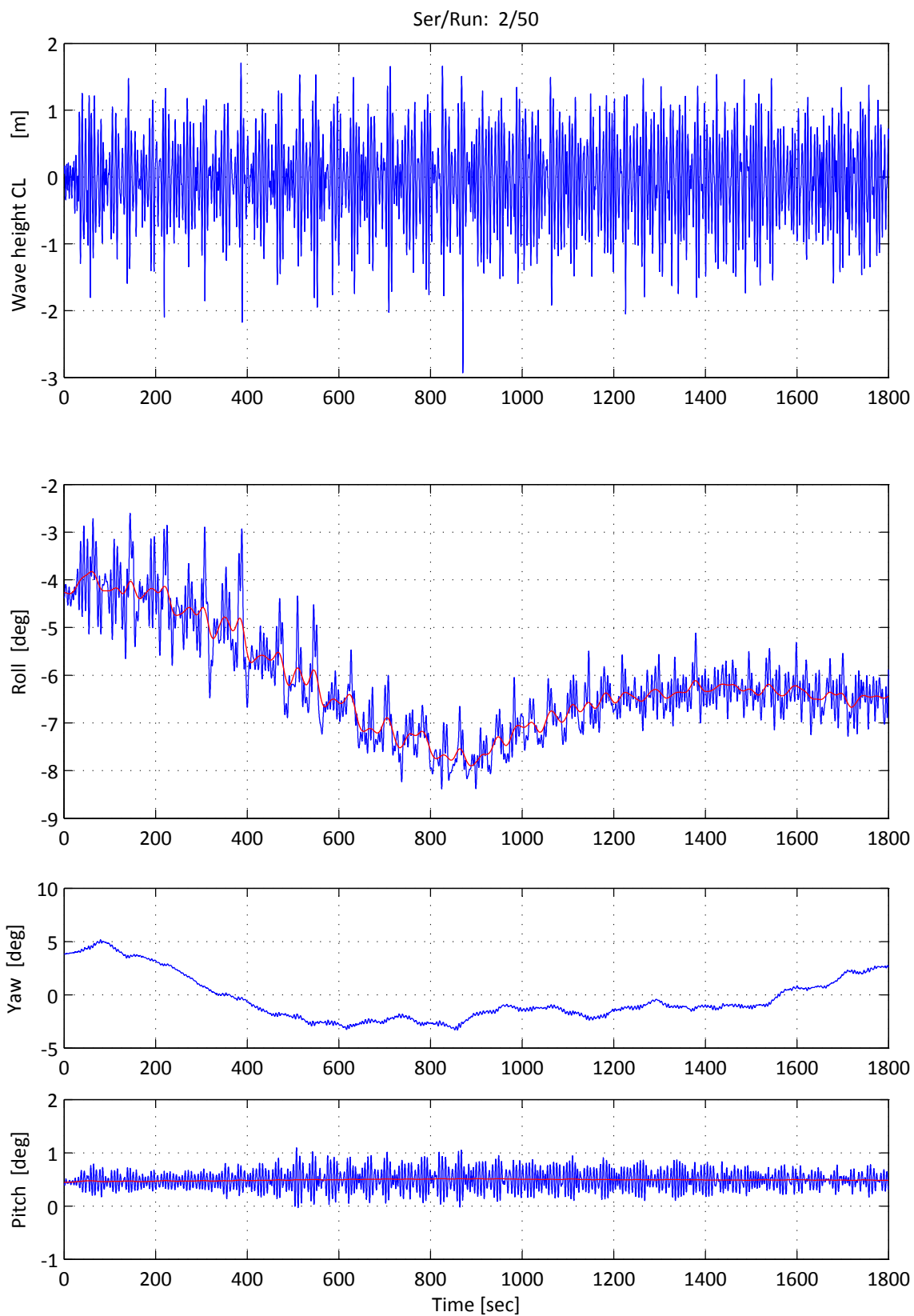
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 9



FLOODSTAND

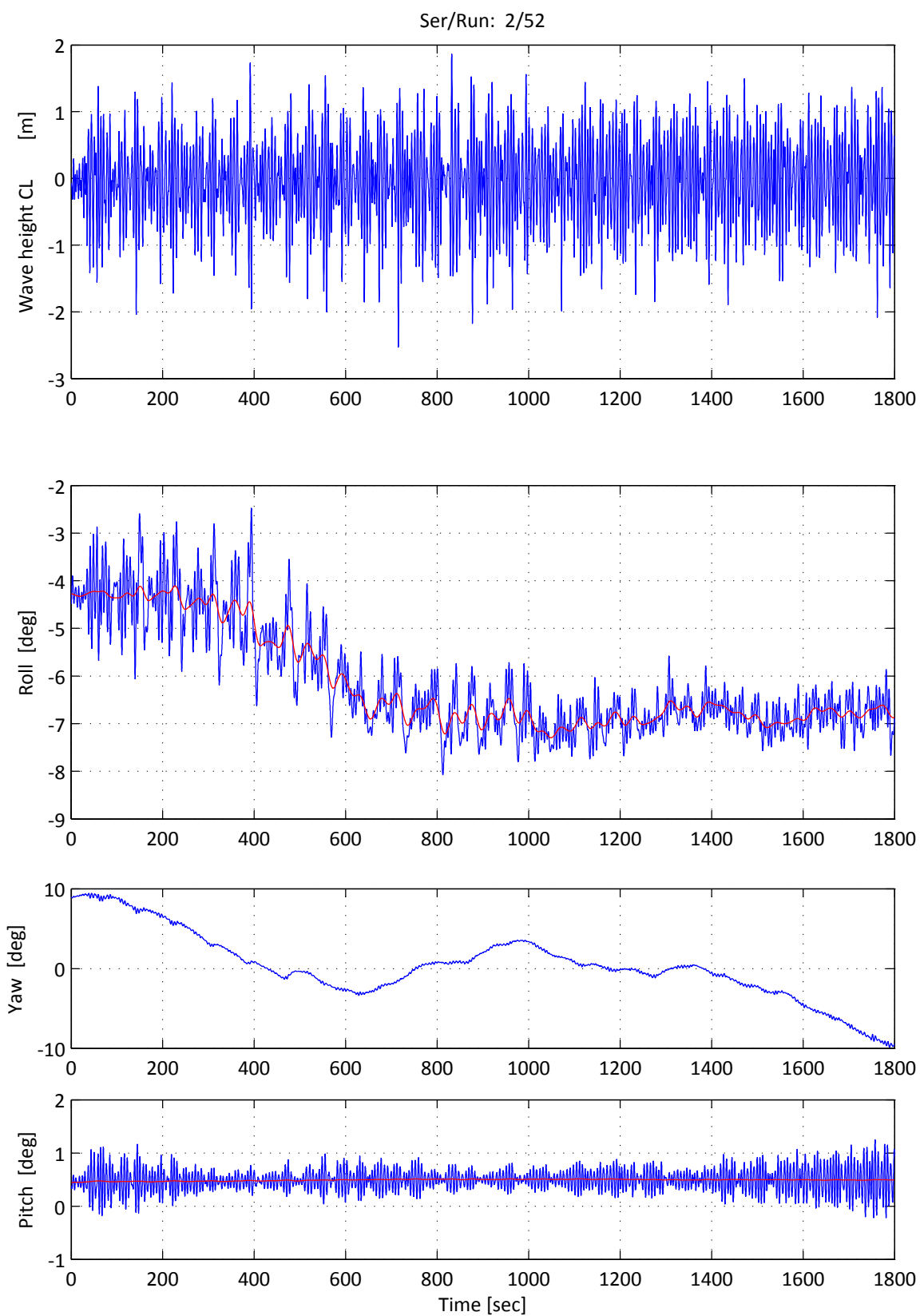
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 10



FLOODSTAND

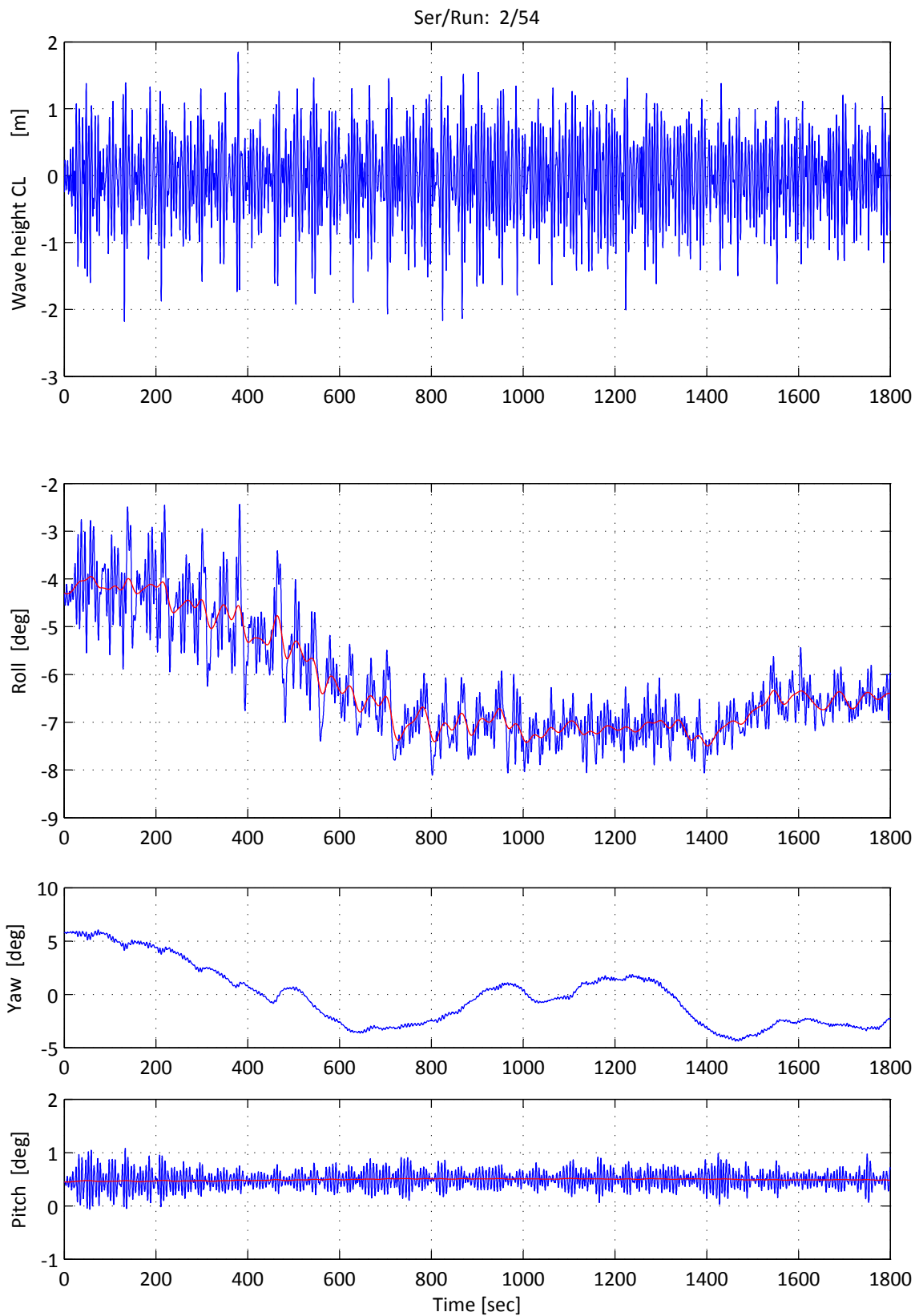
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 11



FLOODSTAND

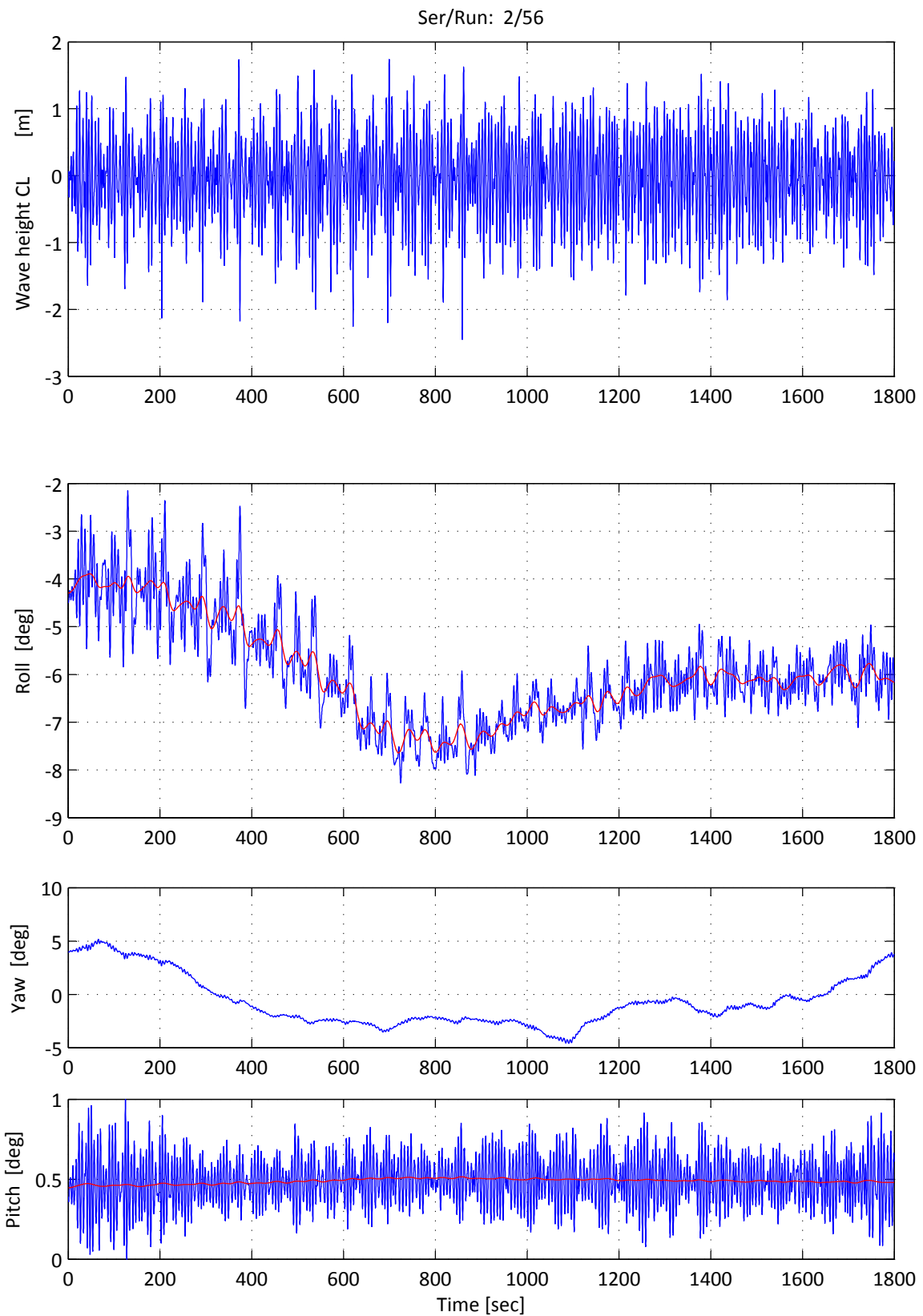
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 12



FLOODSTAND

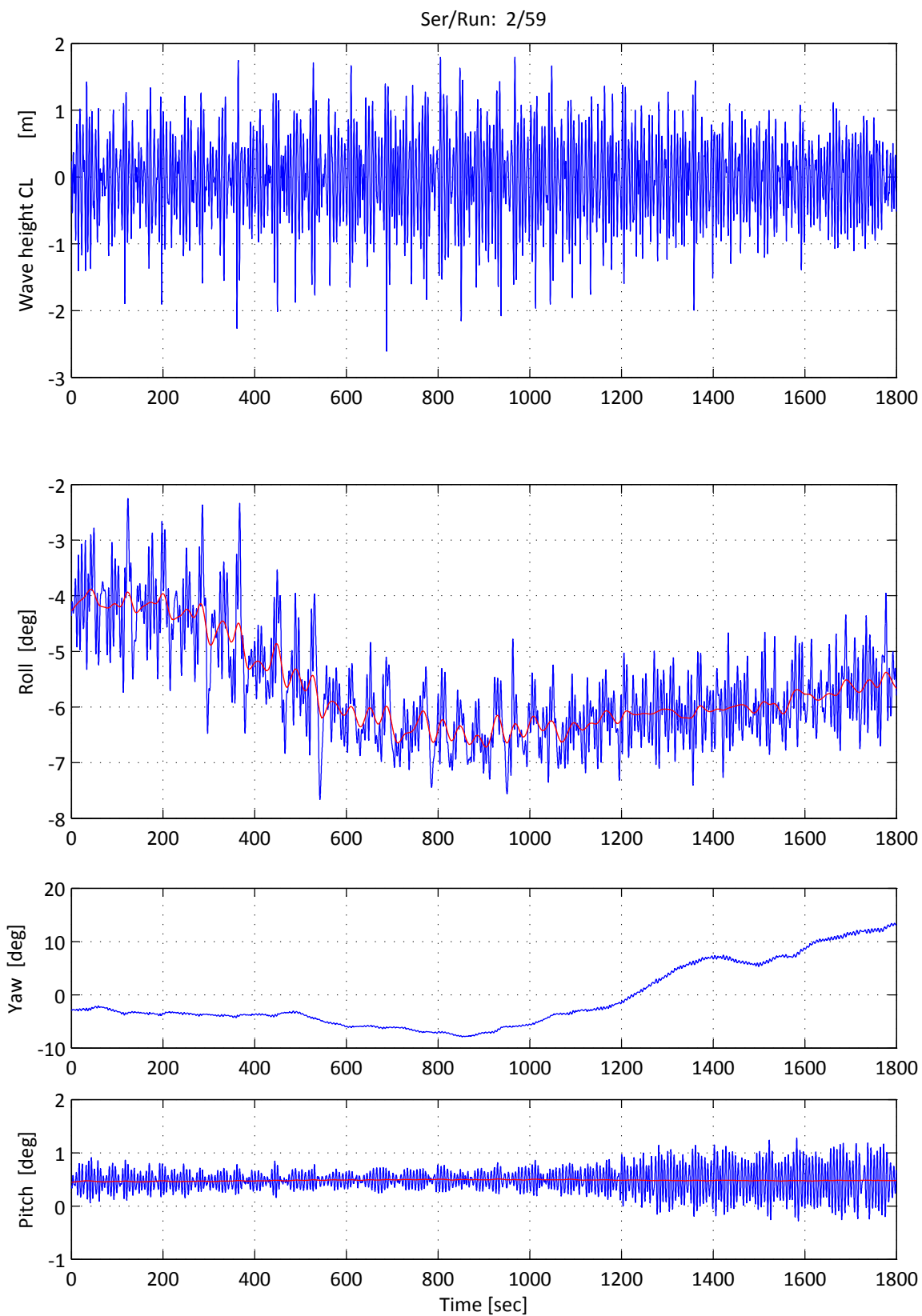
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 13



FLOODSTAND

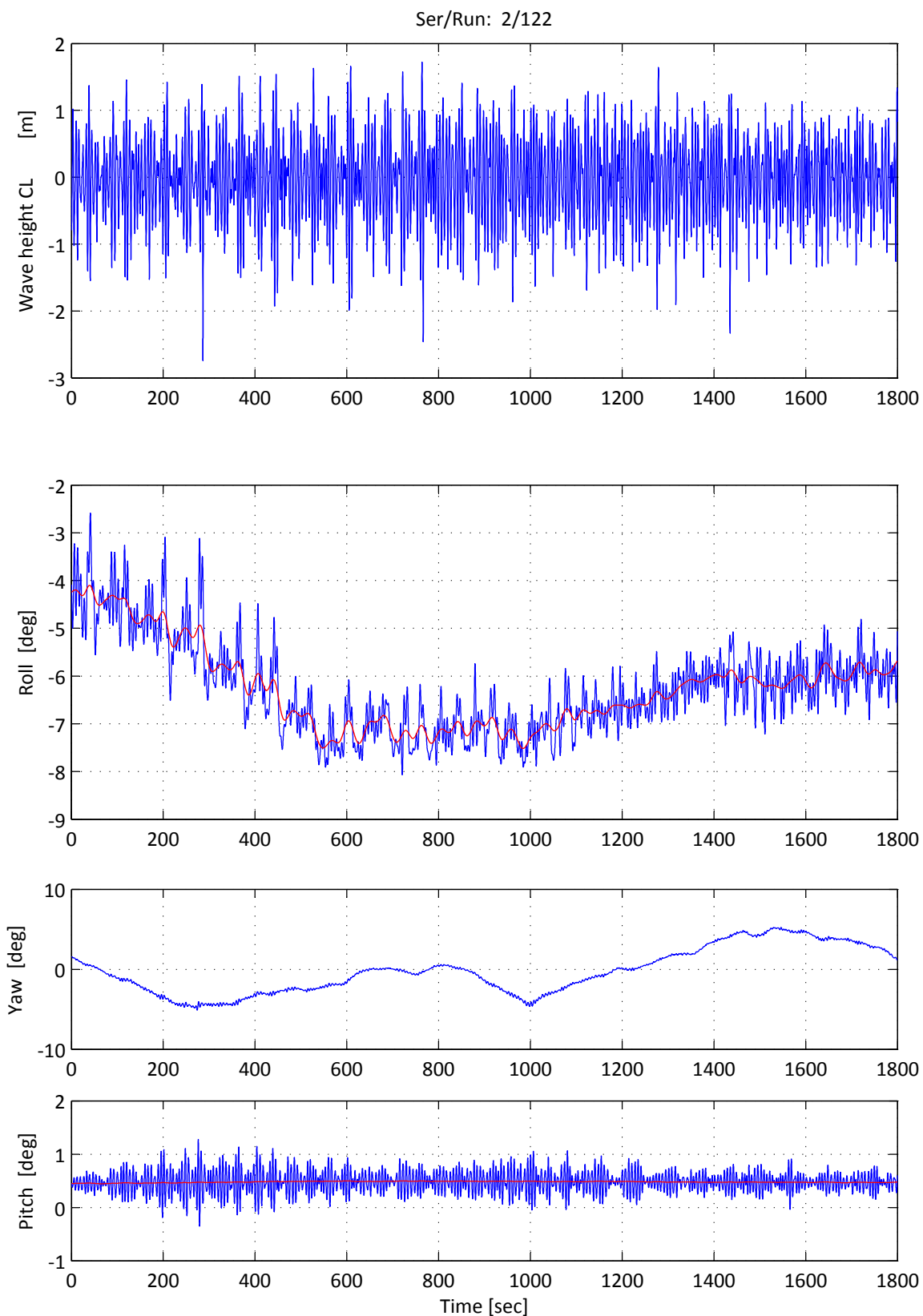
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 14



FLOODSTAND

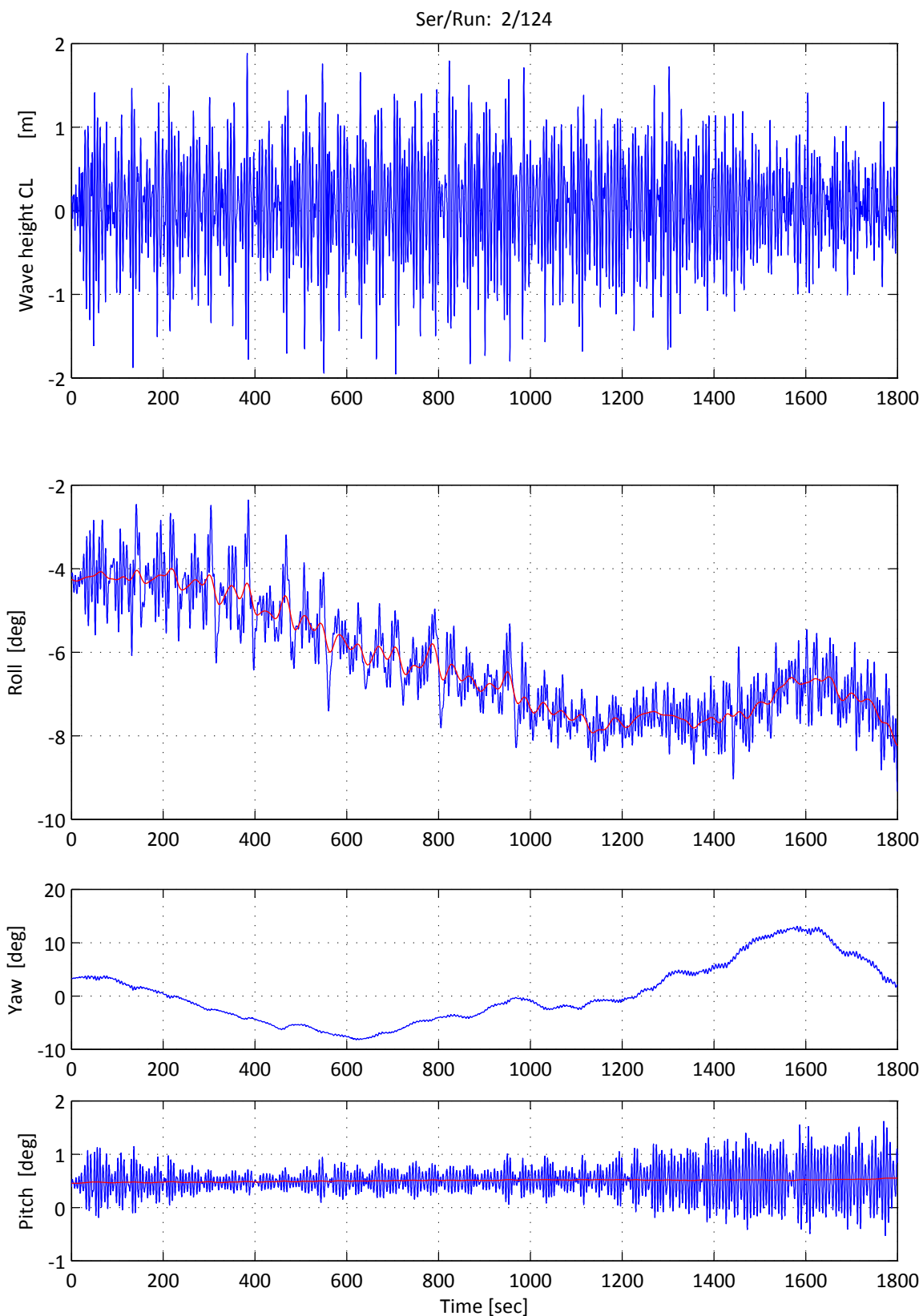
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 15



FLOODSTAND

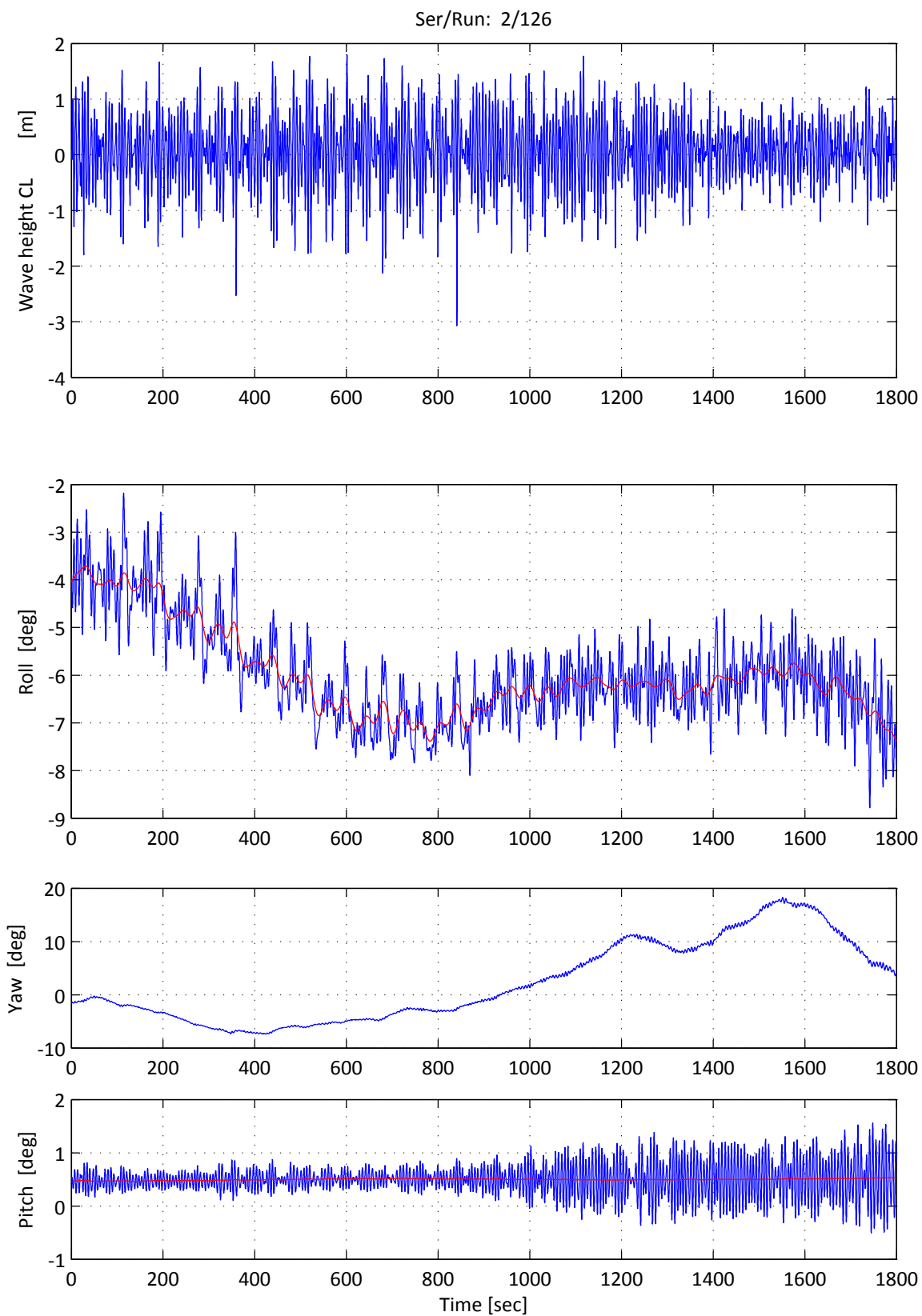
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 16



FLOODSTAND

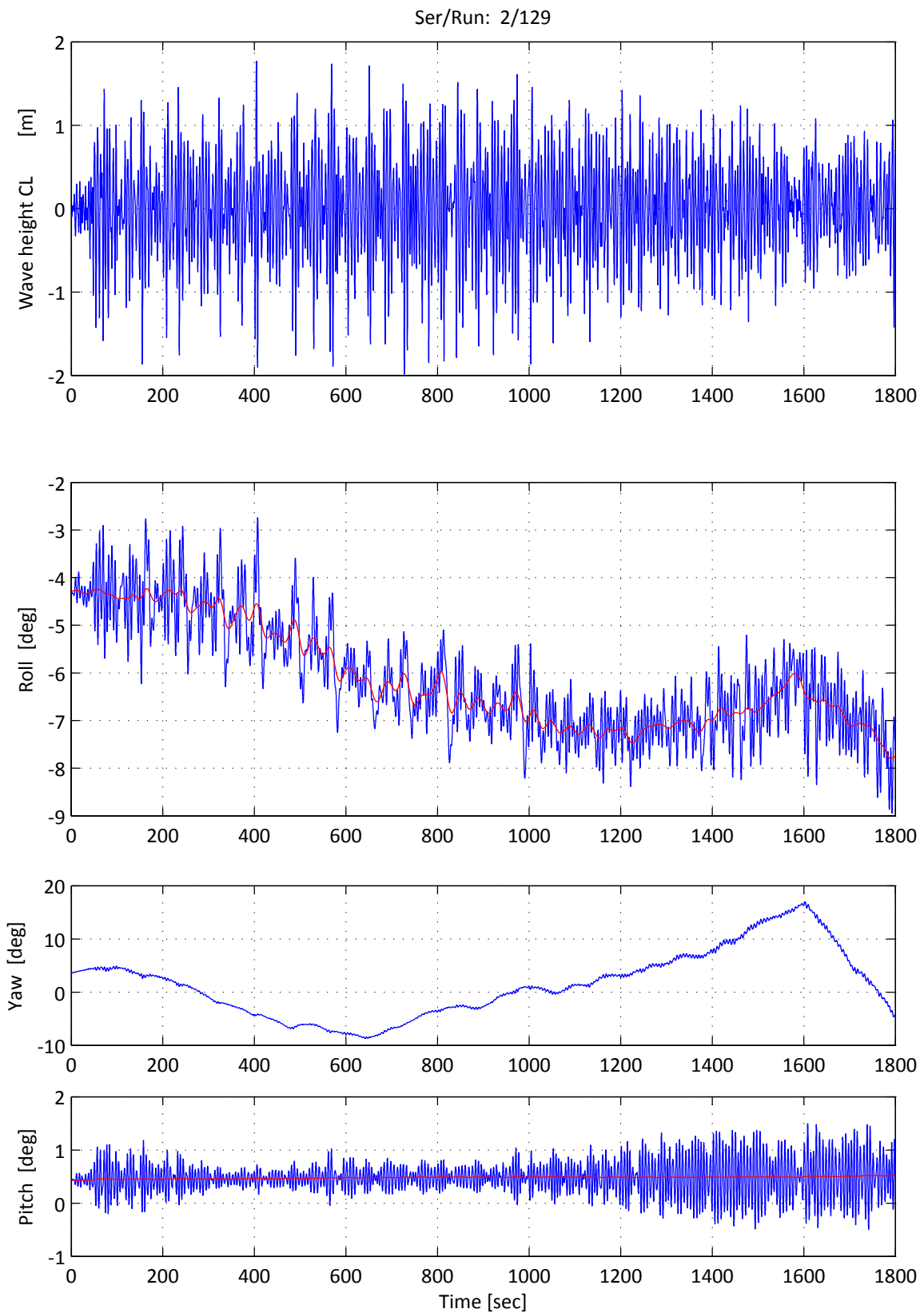
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 17



FLOODSTAND

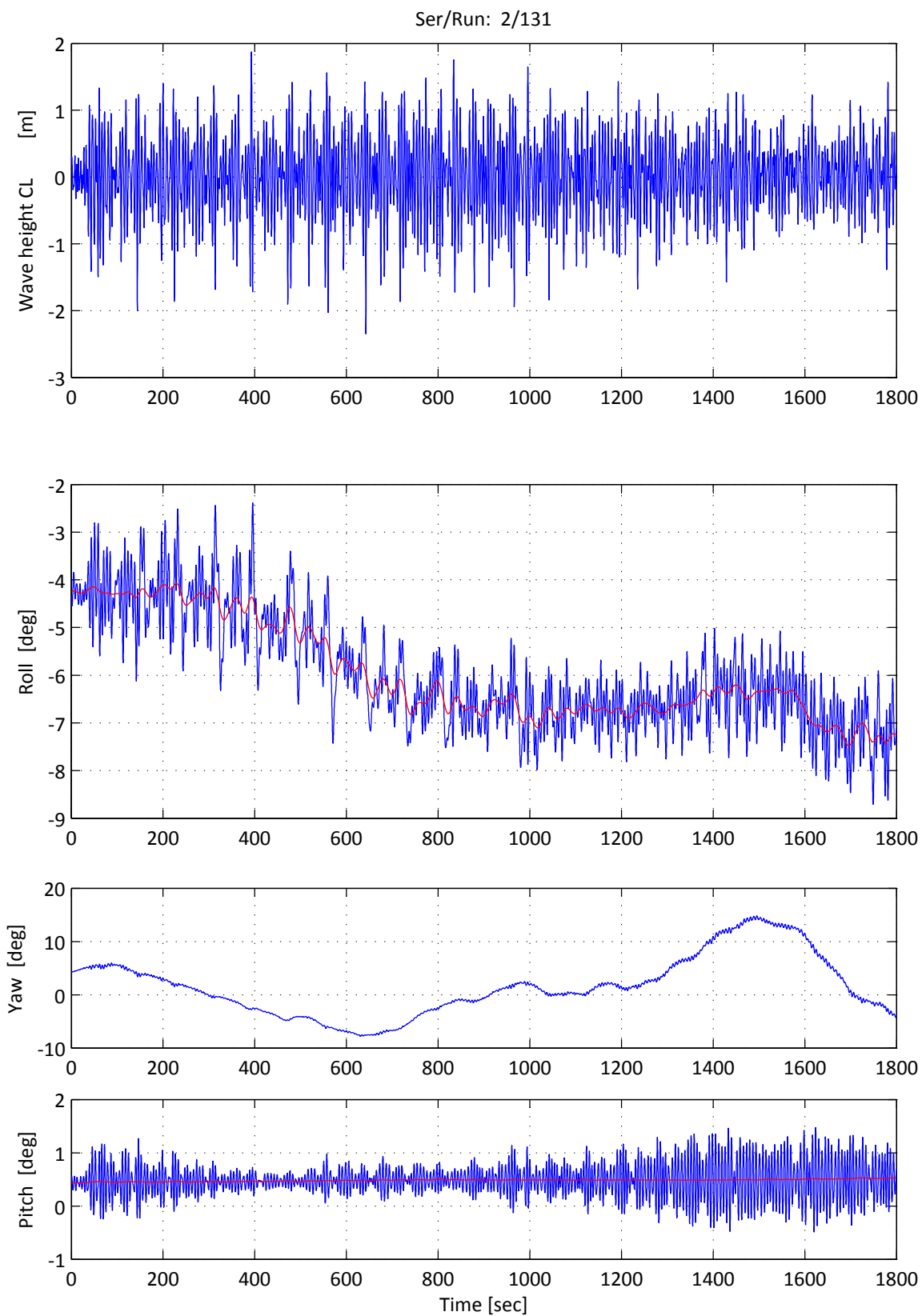
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 18



FLOODSTAND

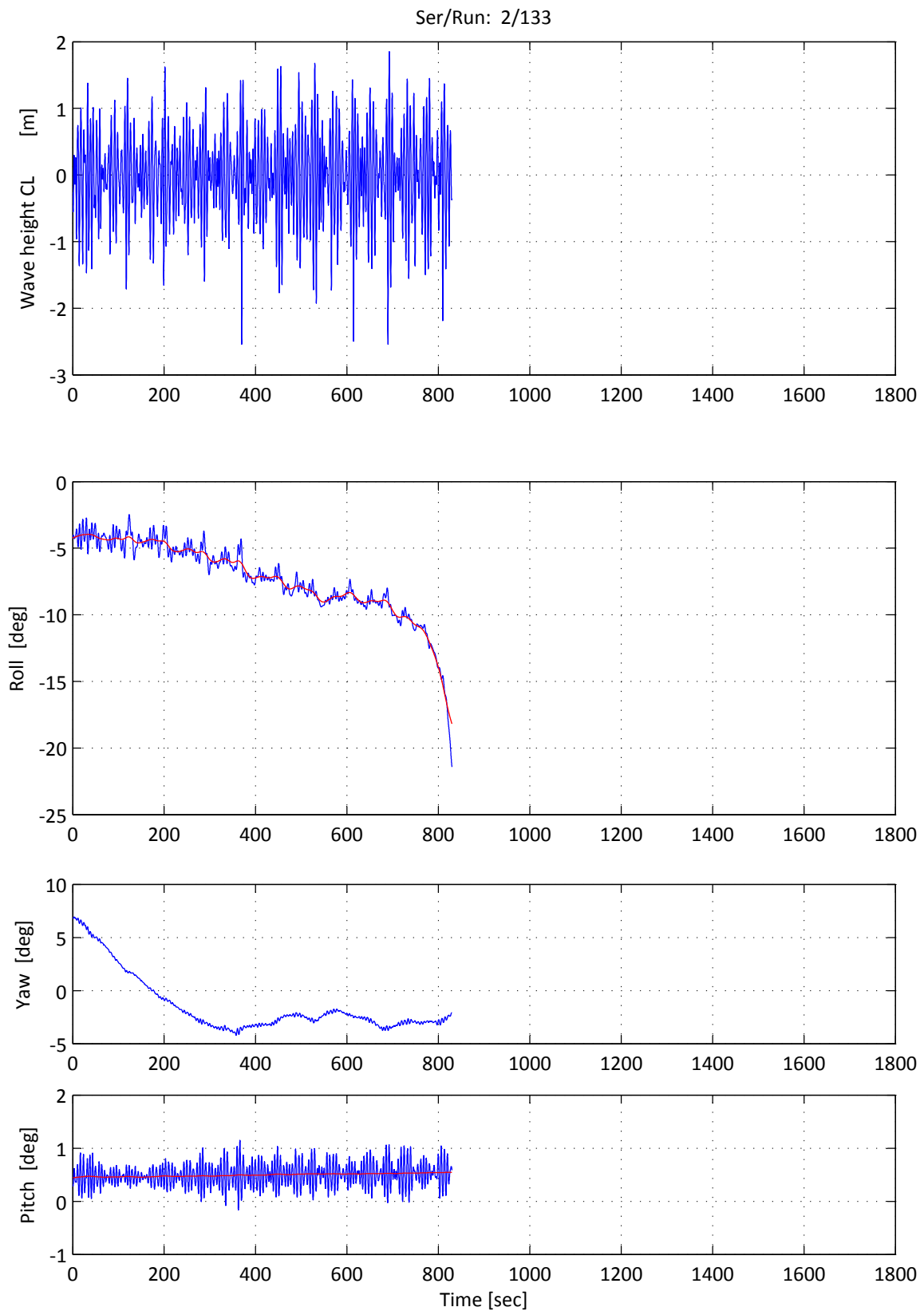
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 19



FLOODSTAND

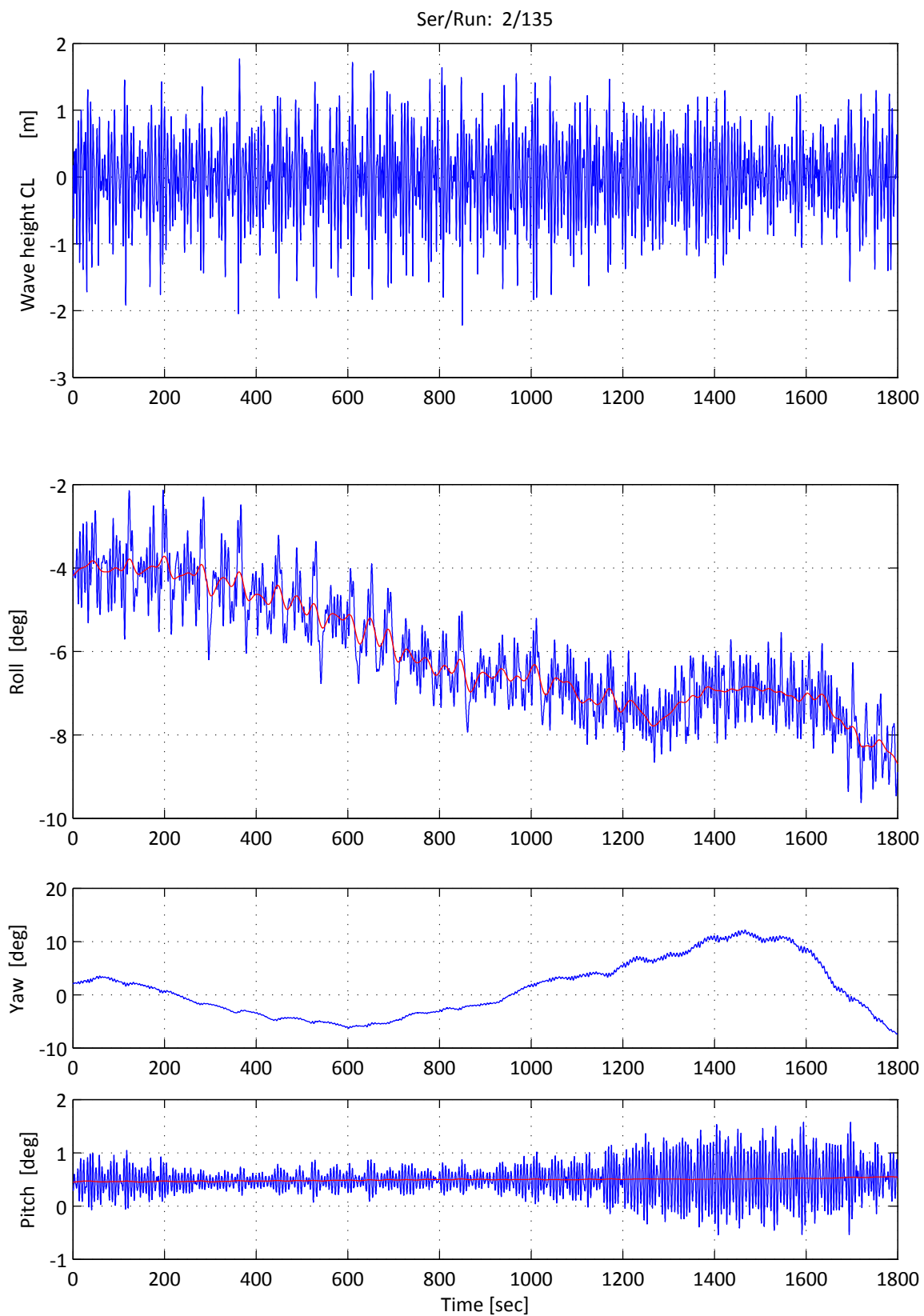
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 20



FLOODSTAND

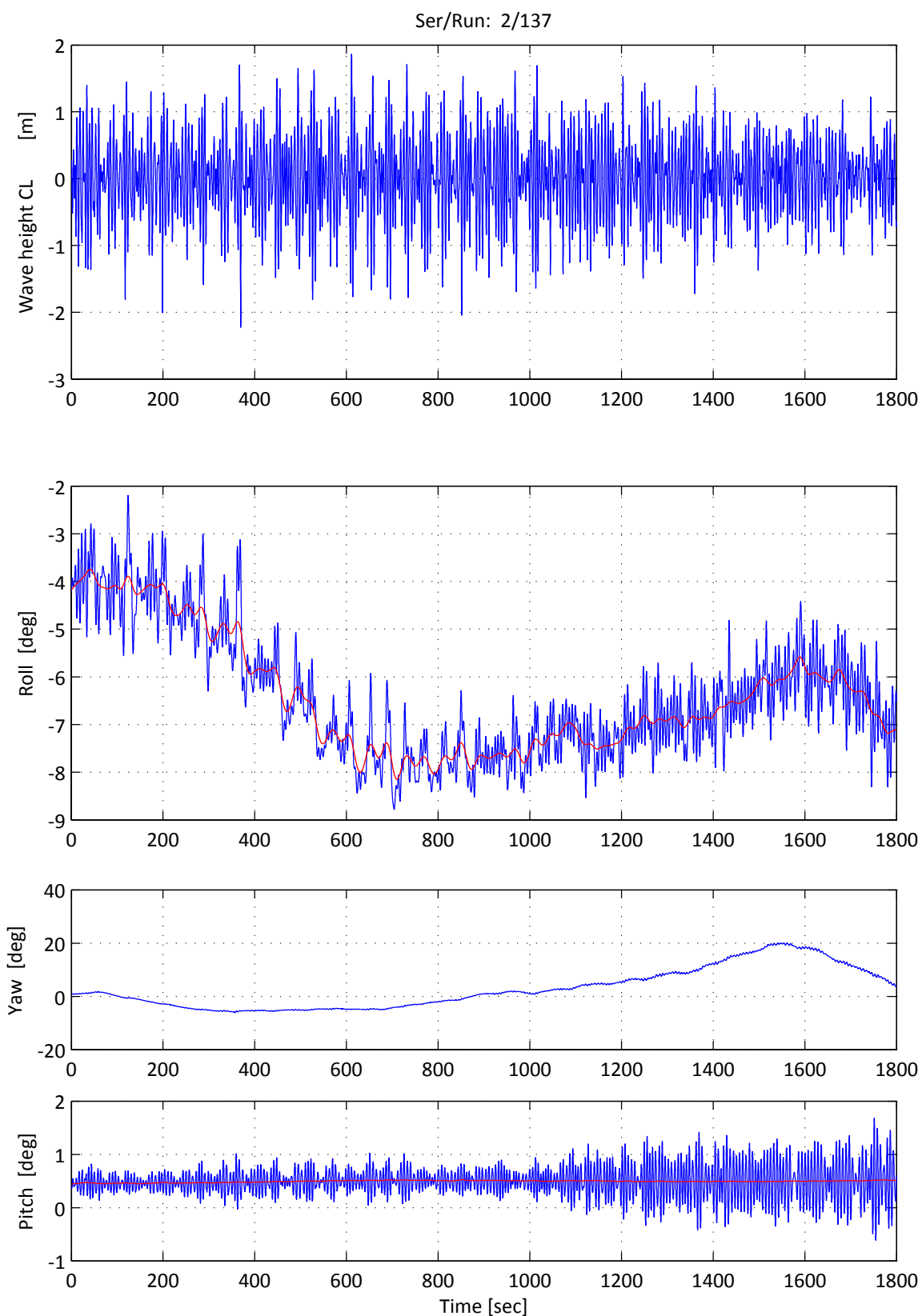
Jonswap spectrum

$H_{1/3} = 2.5 \text{ m}$ $T_p = 6.32 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 21



FLOODSTAND

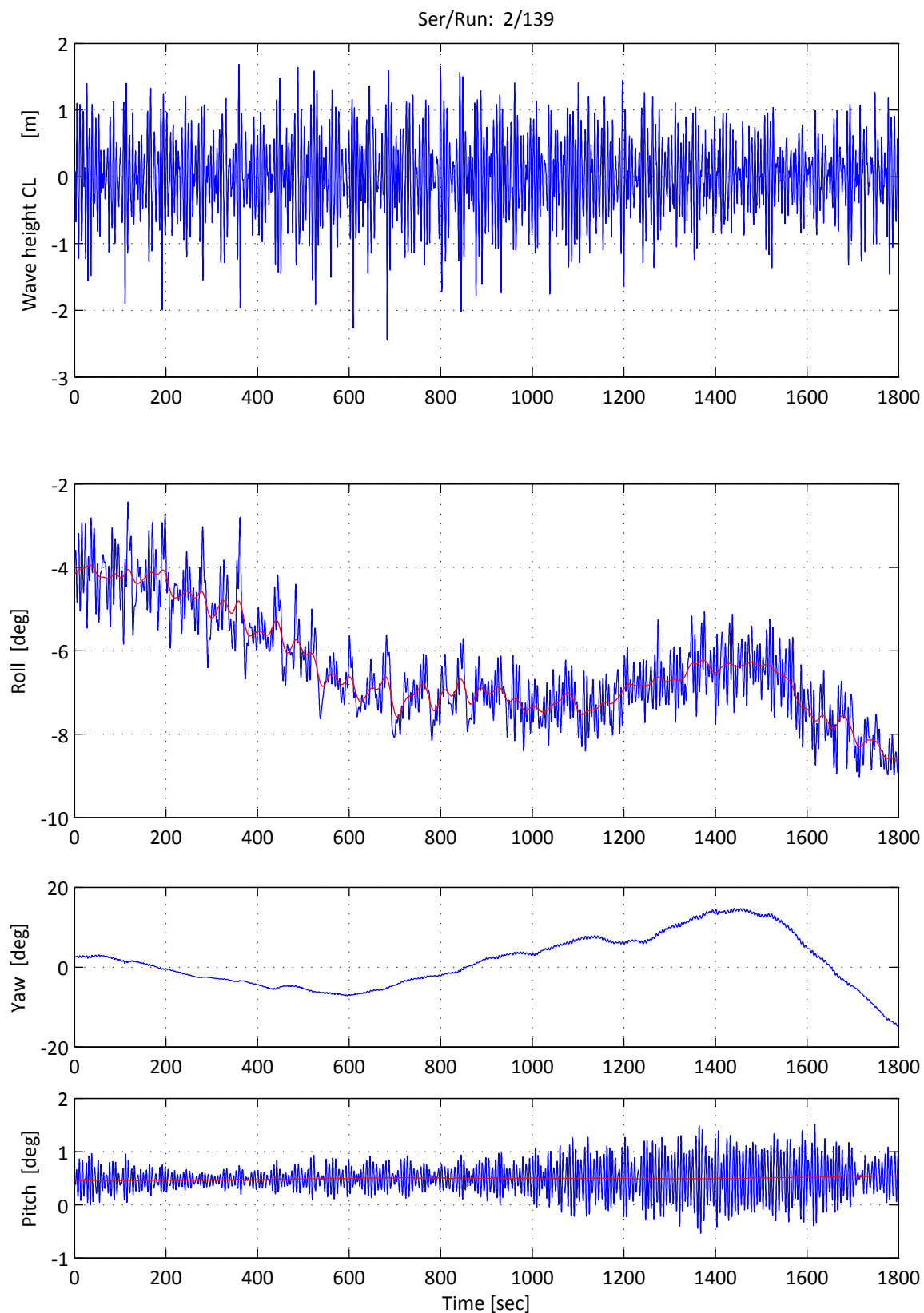
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 22



FLOODSTAND

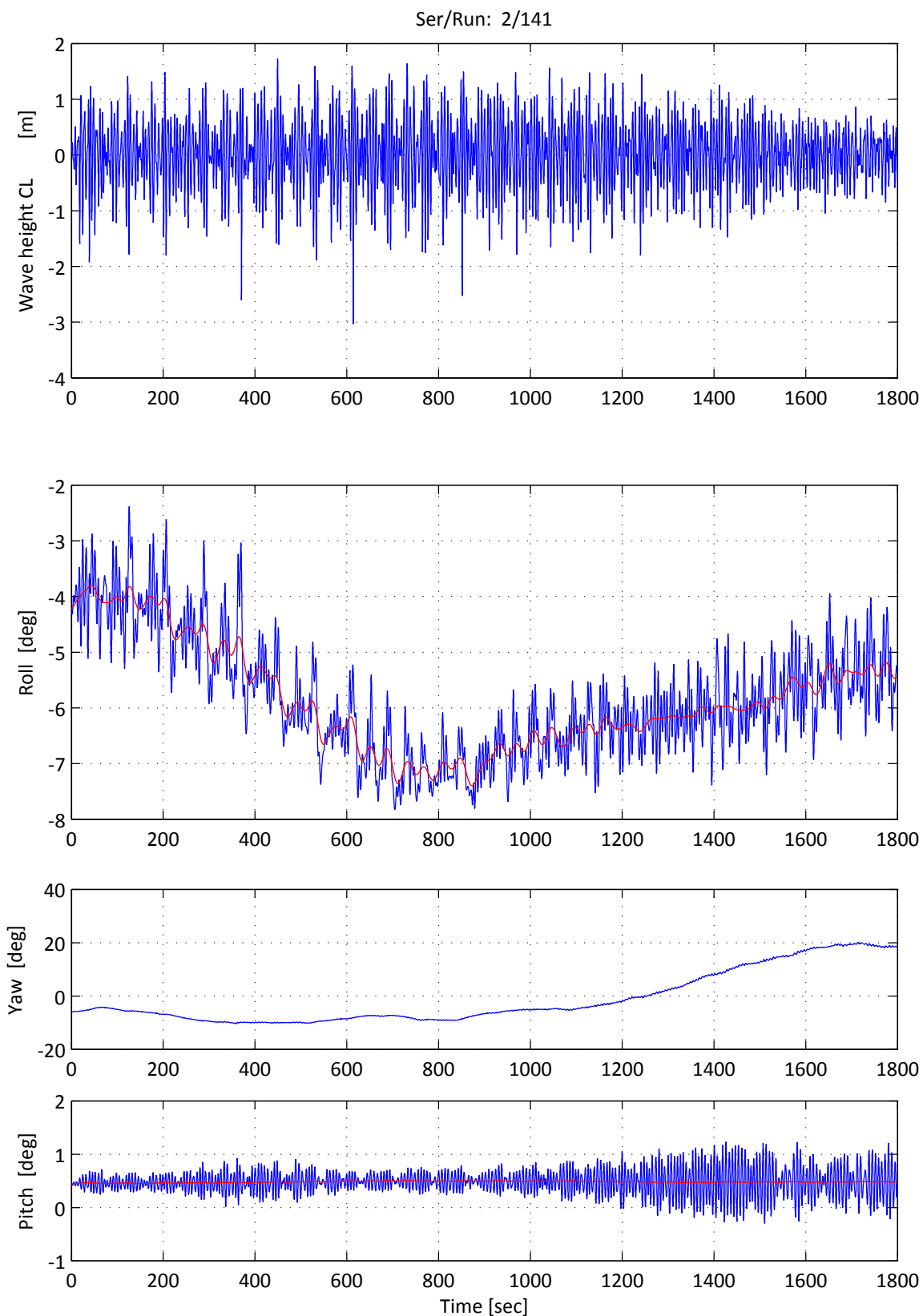
Jonswap spectrum

$H_{1/3} = 2.5$ m $T_p = 6.32$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 23



FLOODSTAND

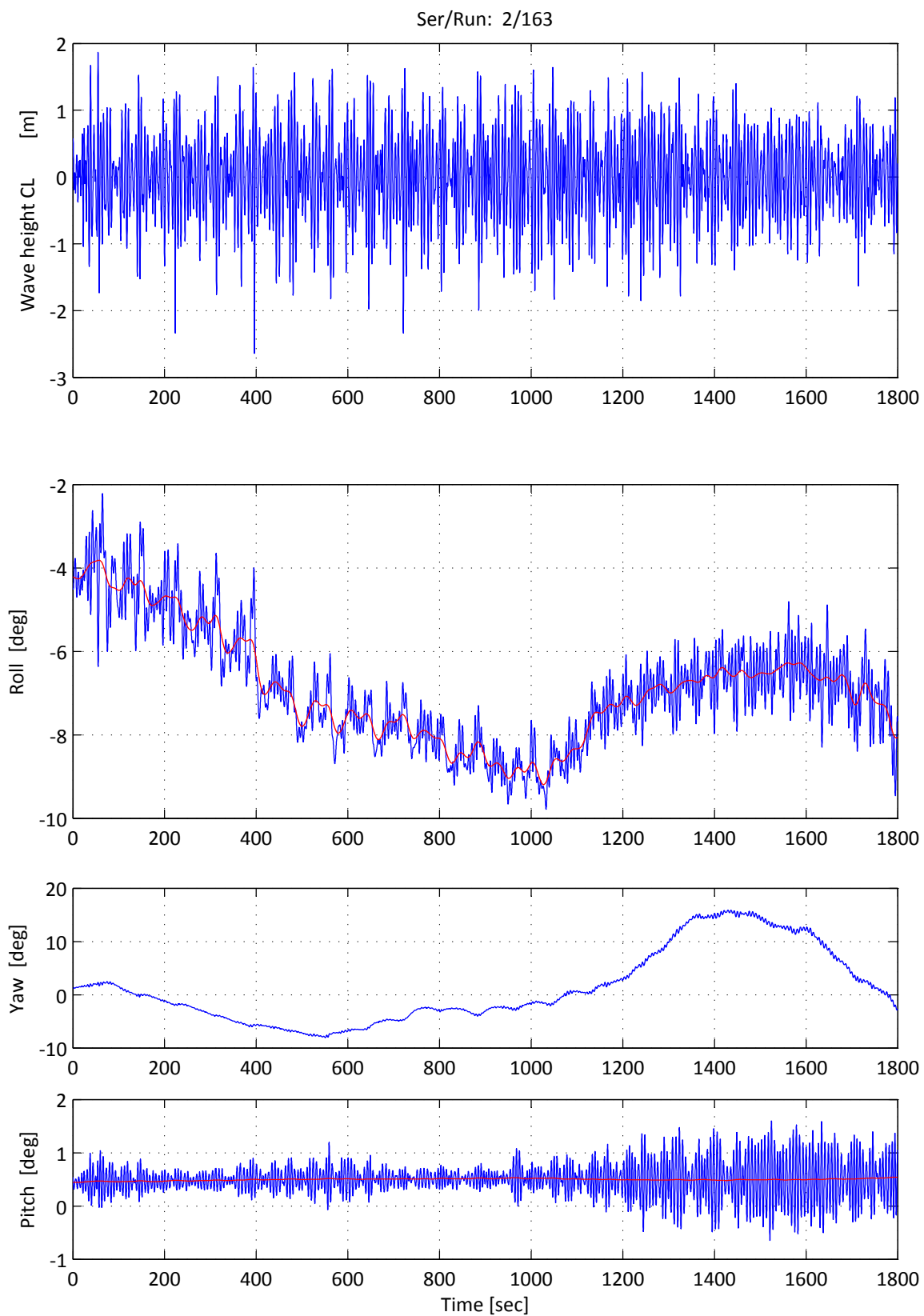
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 24



FLOODSTAND

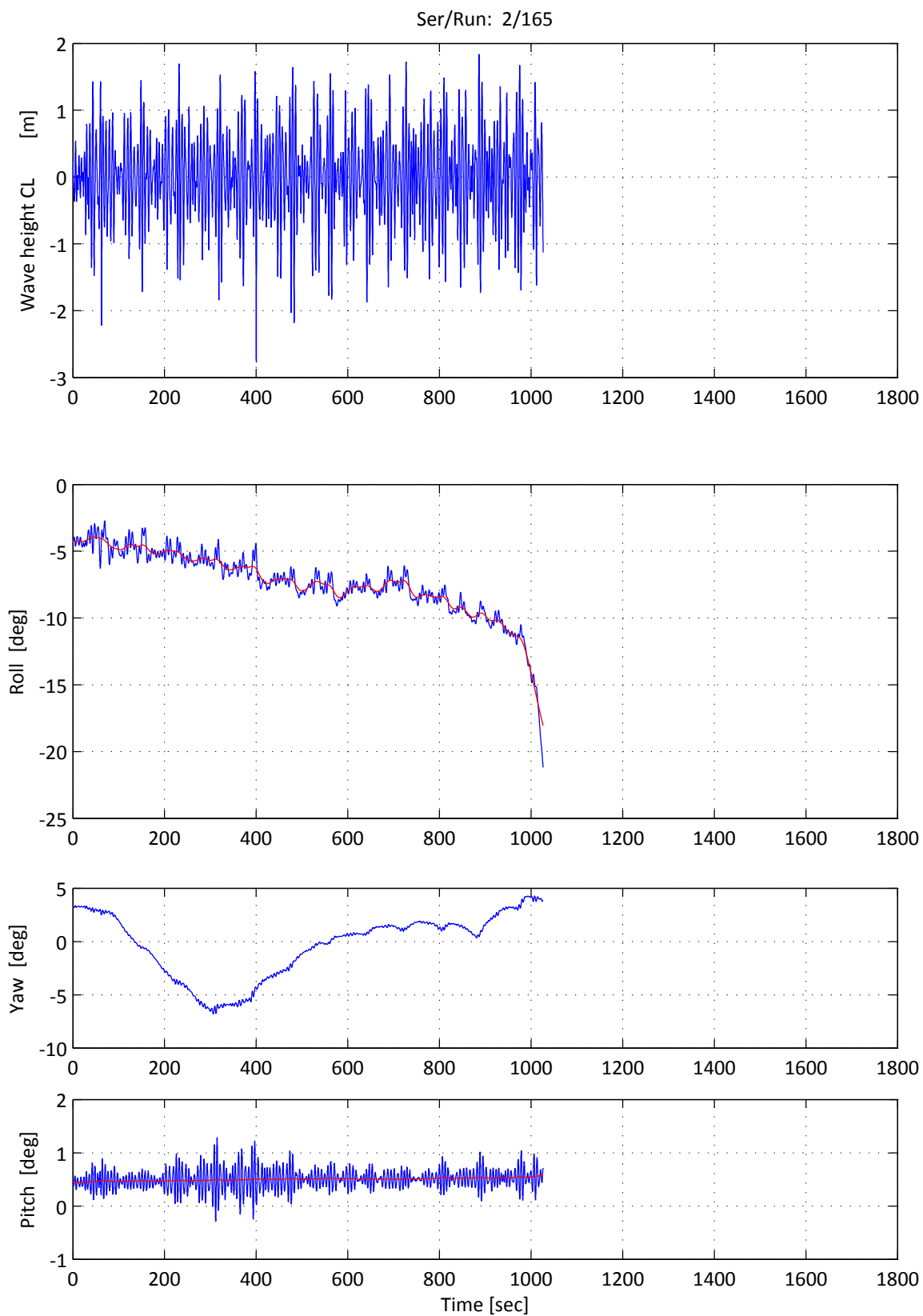
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 25



FLOODSTAND

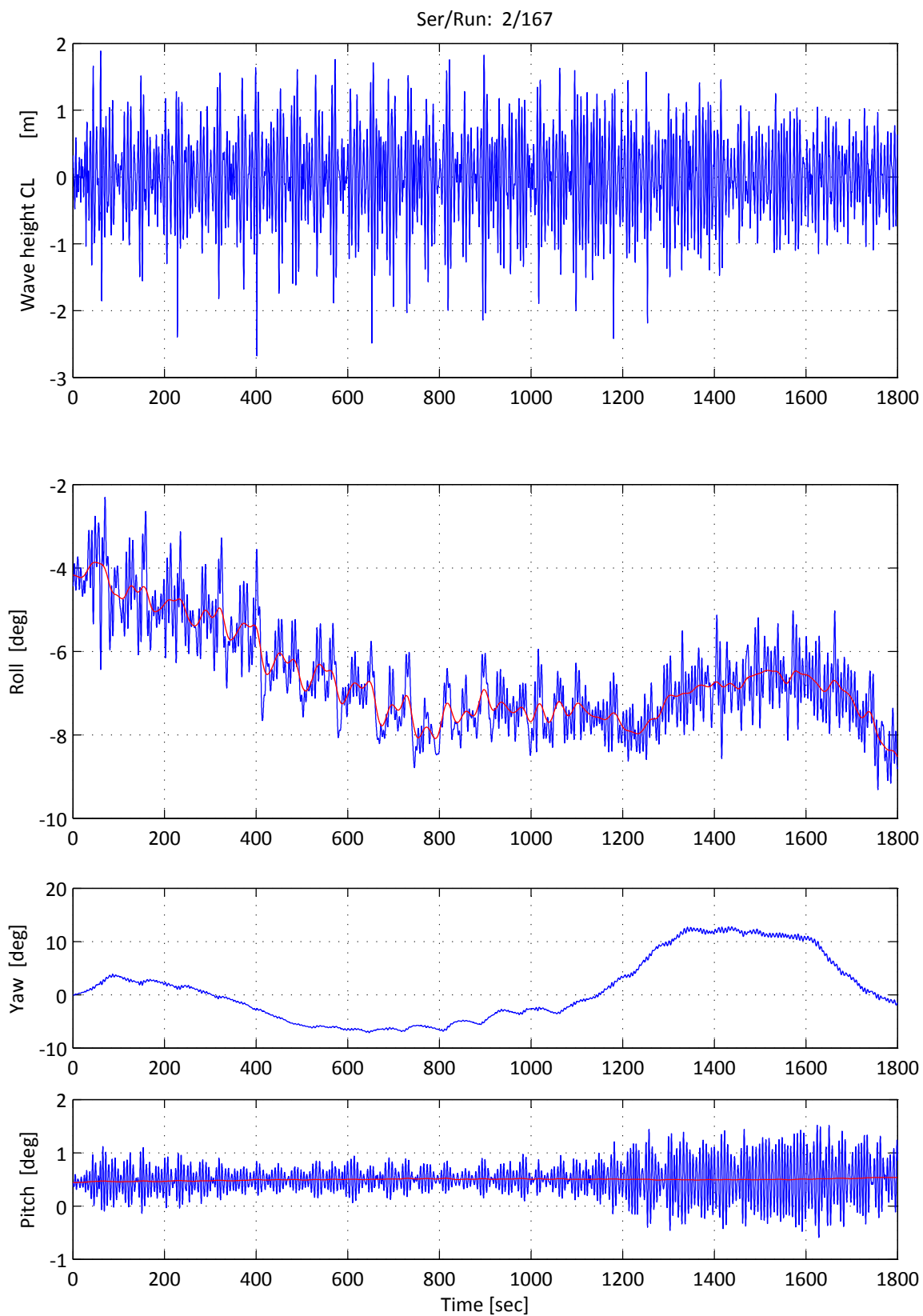
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 26



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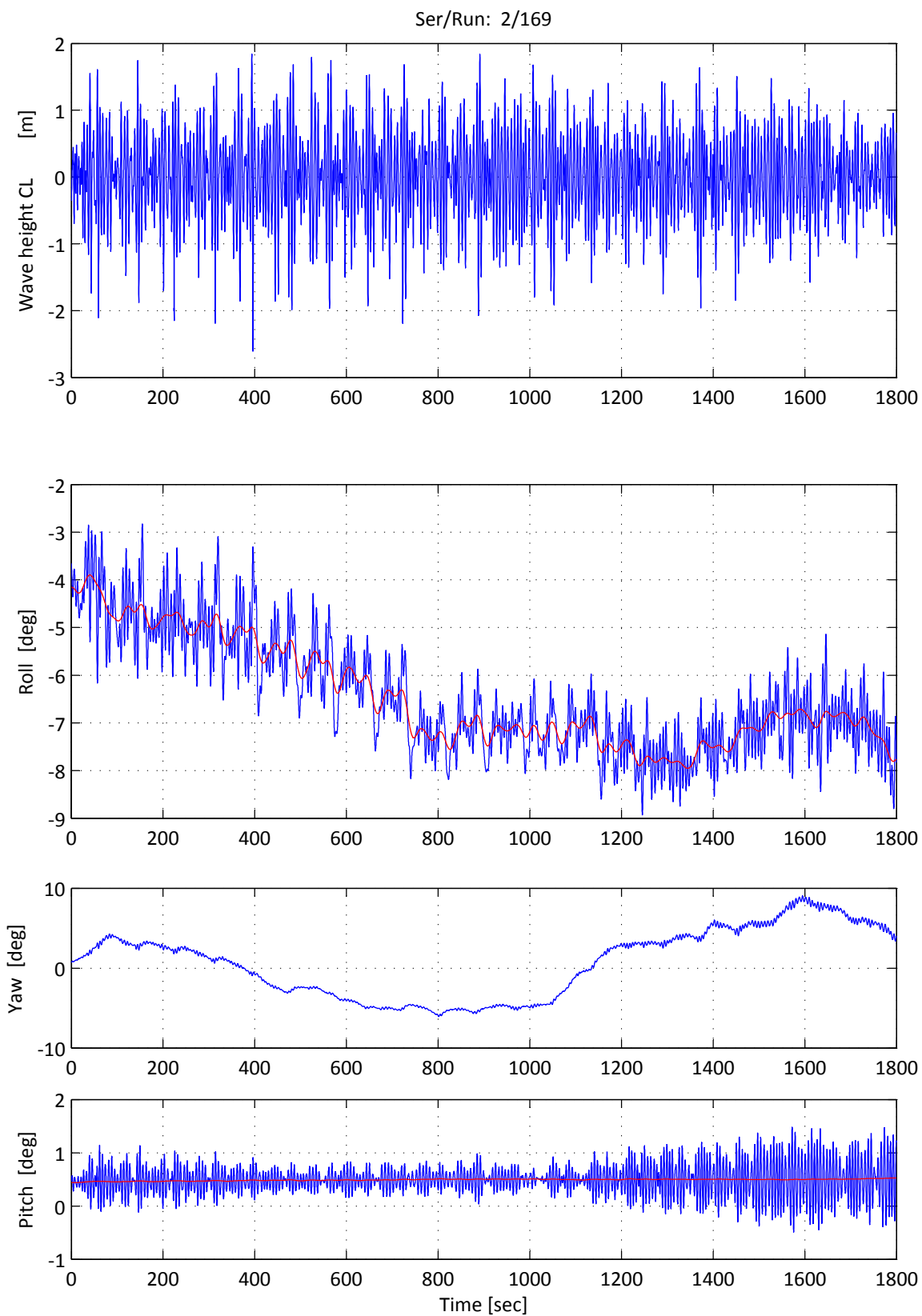
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 27



FLOODSTAND

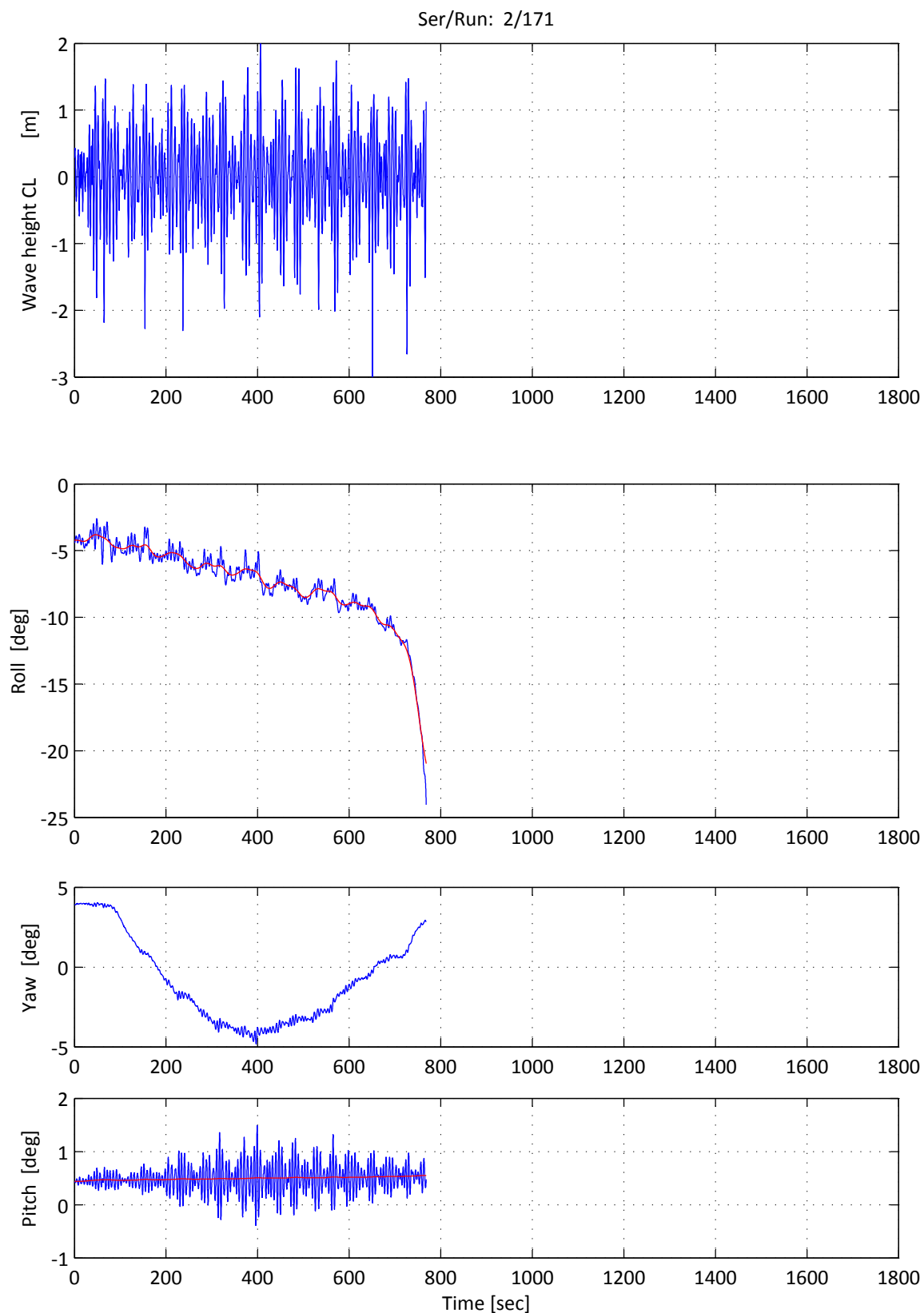
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 28



FLOODSTAND

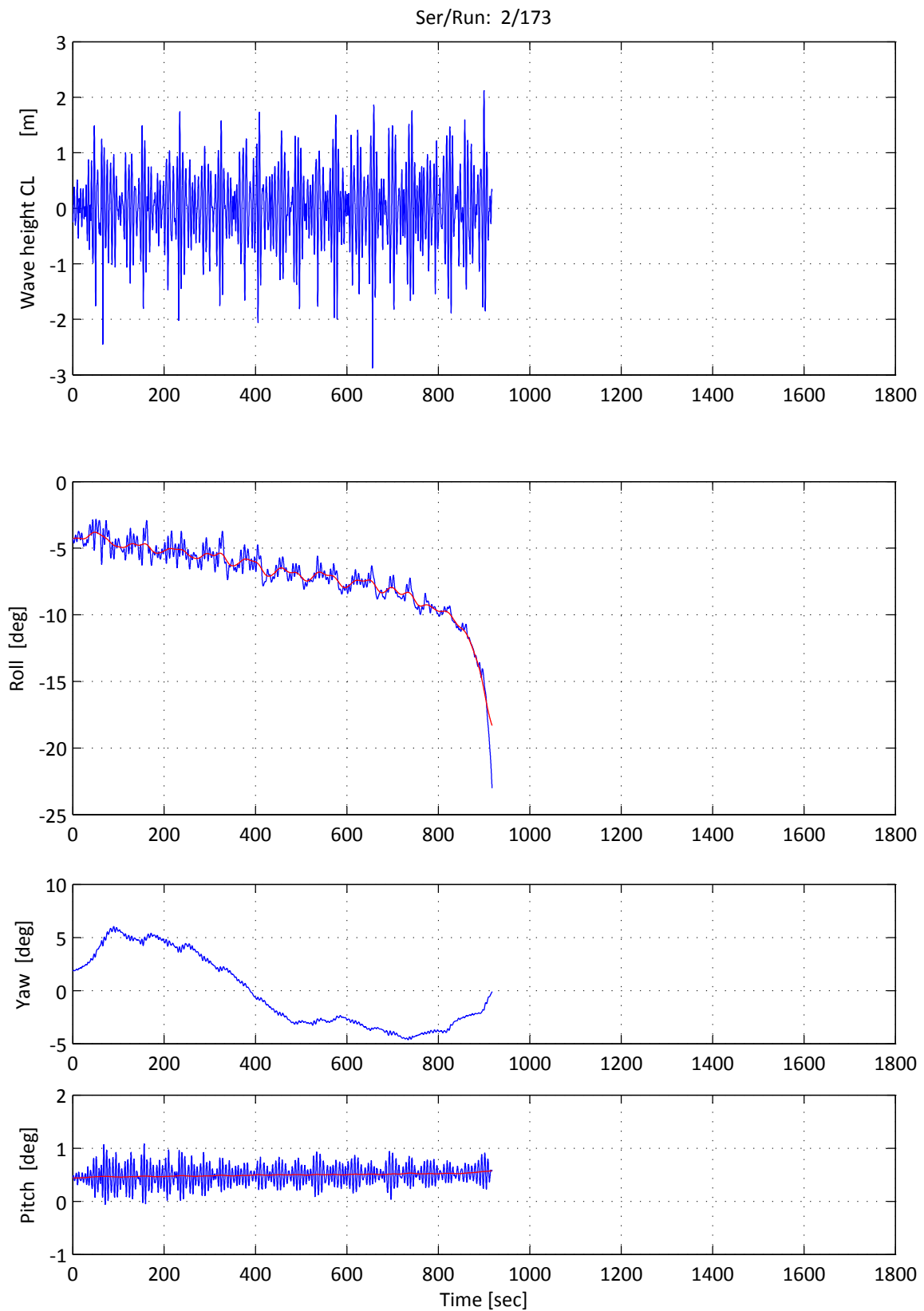
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 29



FLOODSTAND

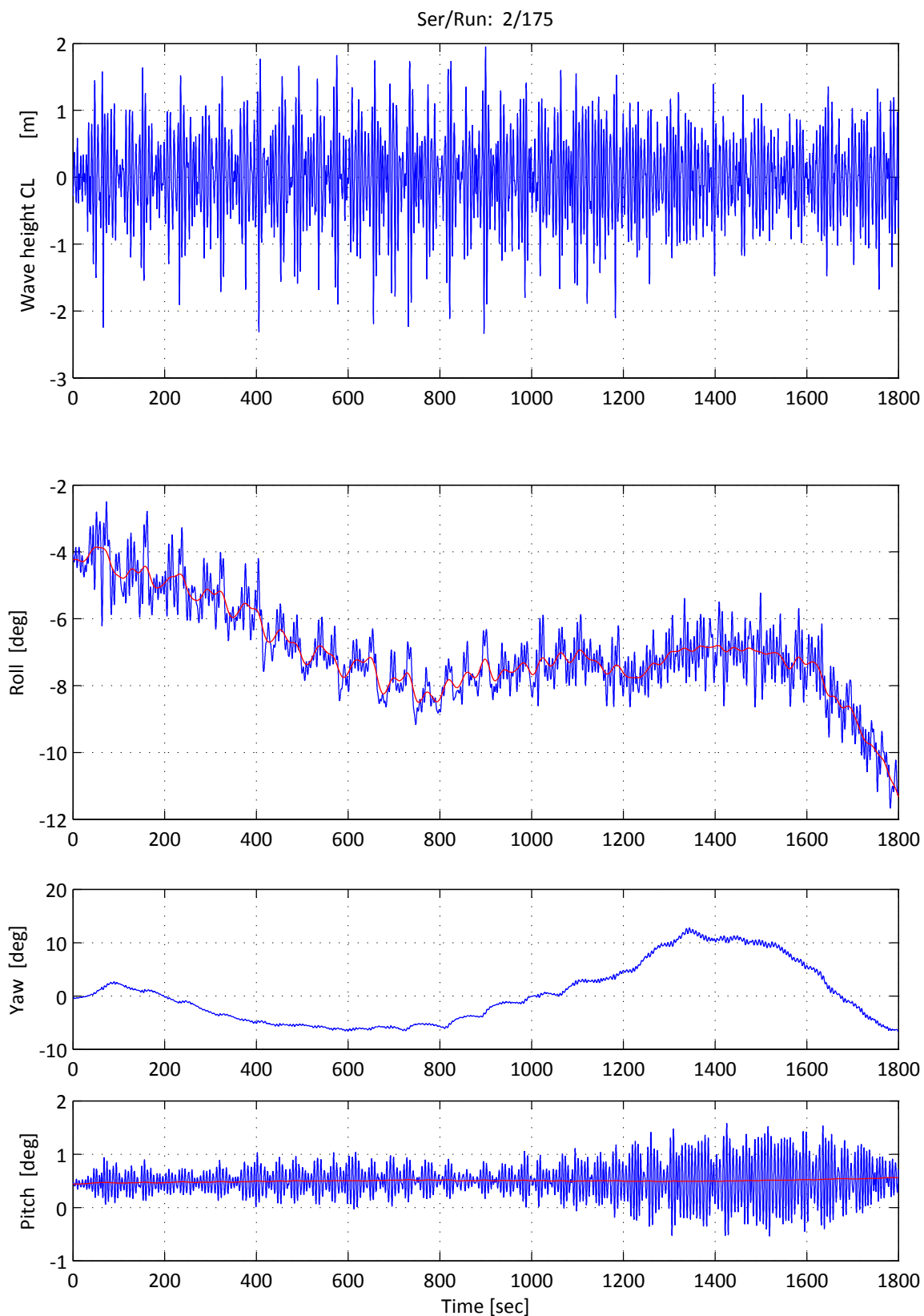
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 30



FLOODSTAND

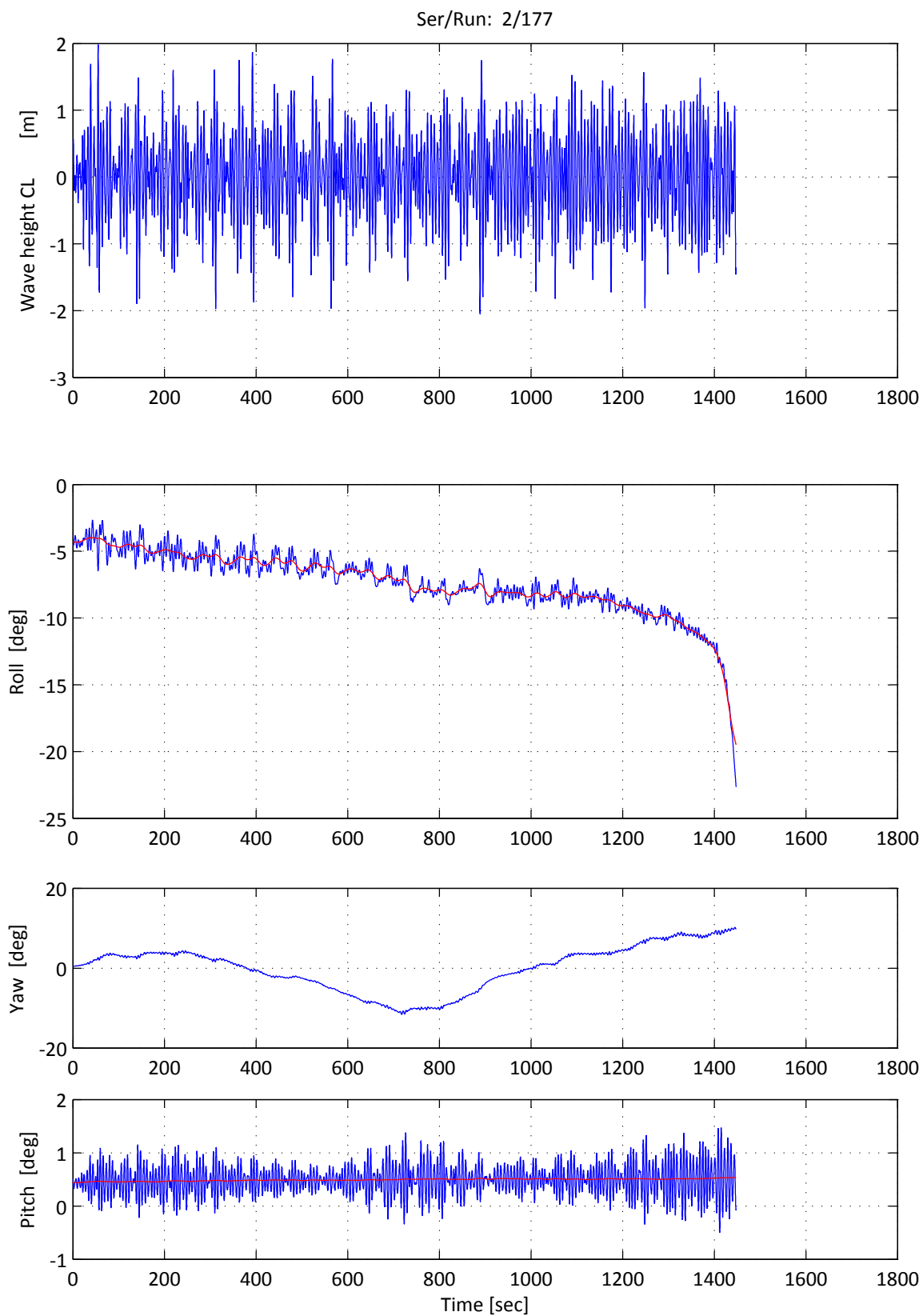
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 31



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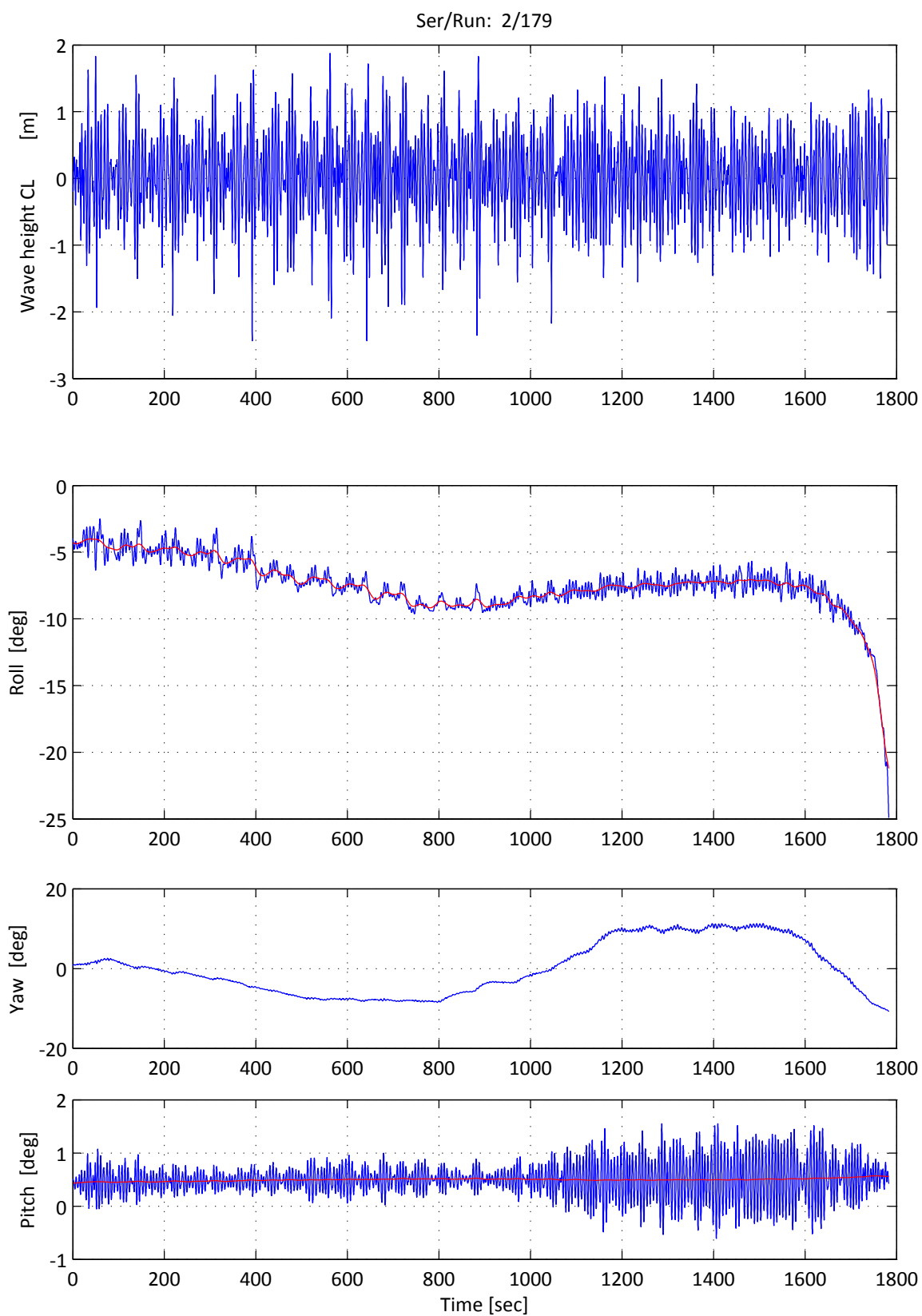
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 32



FLOODSTAND

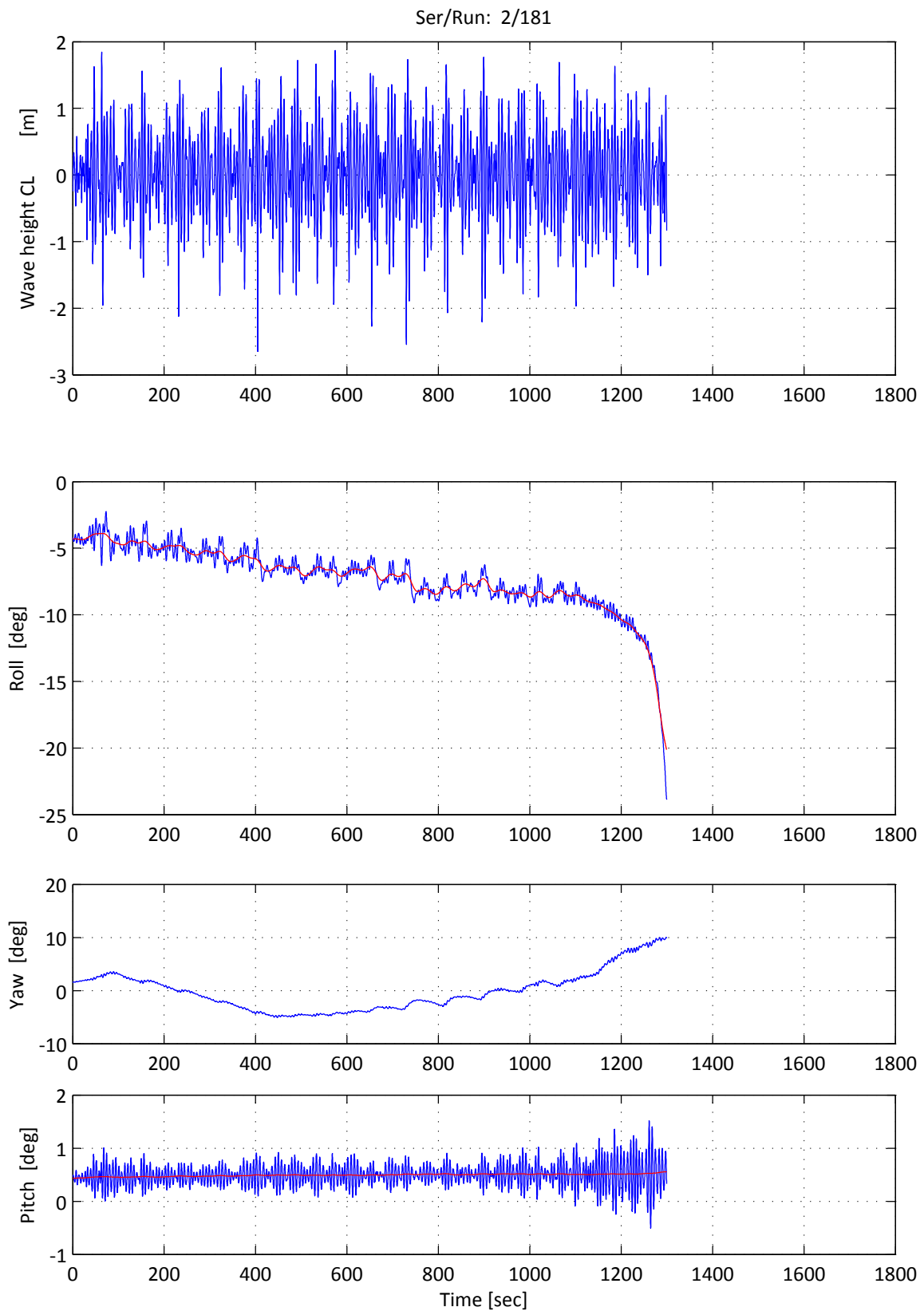
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 33



FLOODSTAND

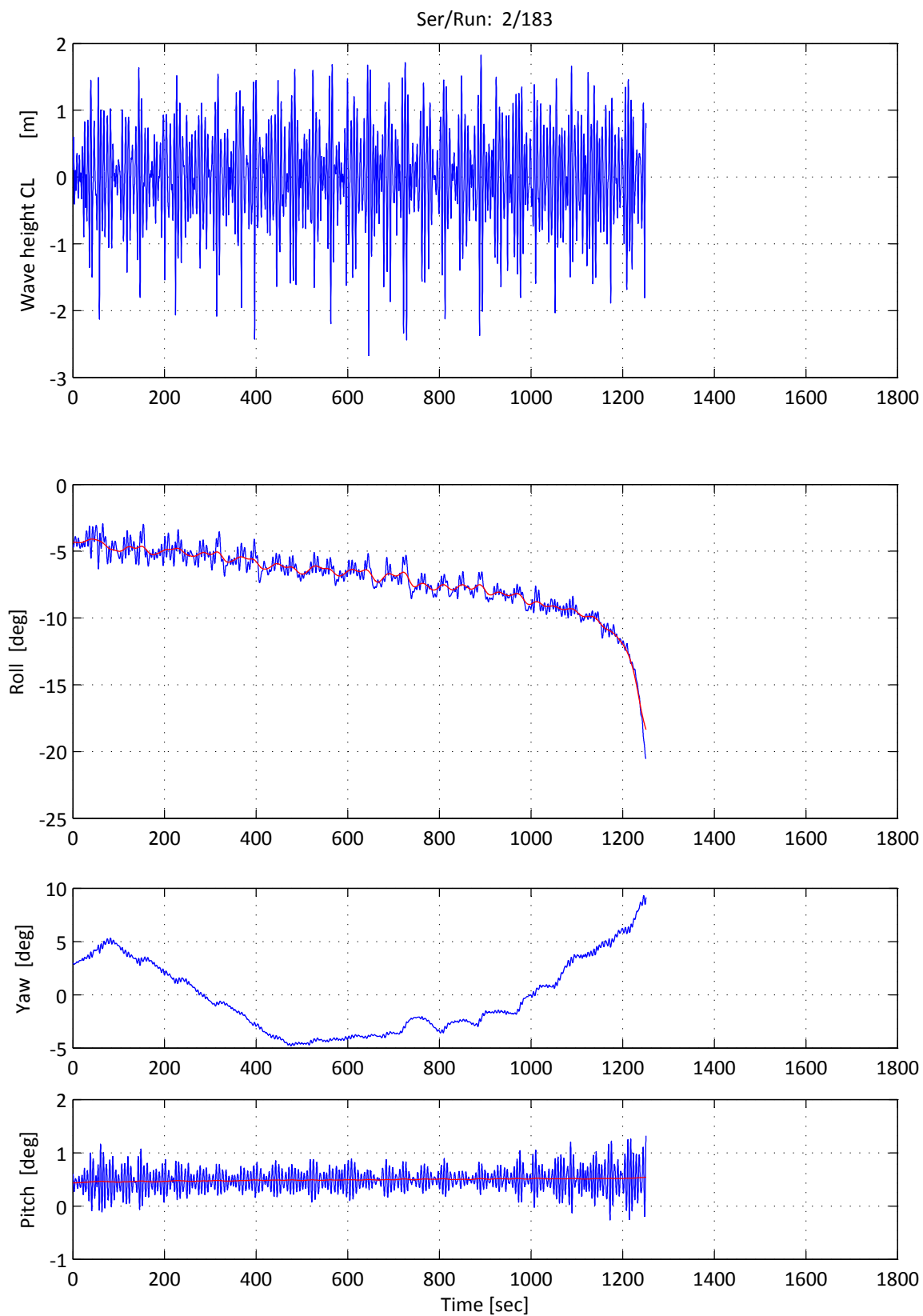
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 34



FLOODSTAND

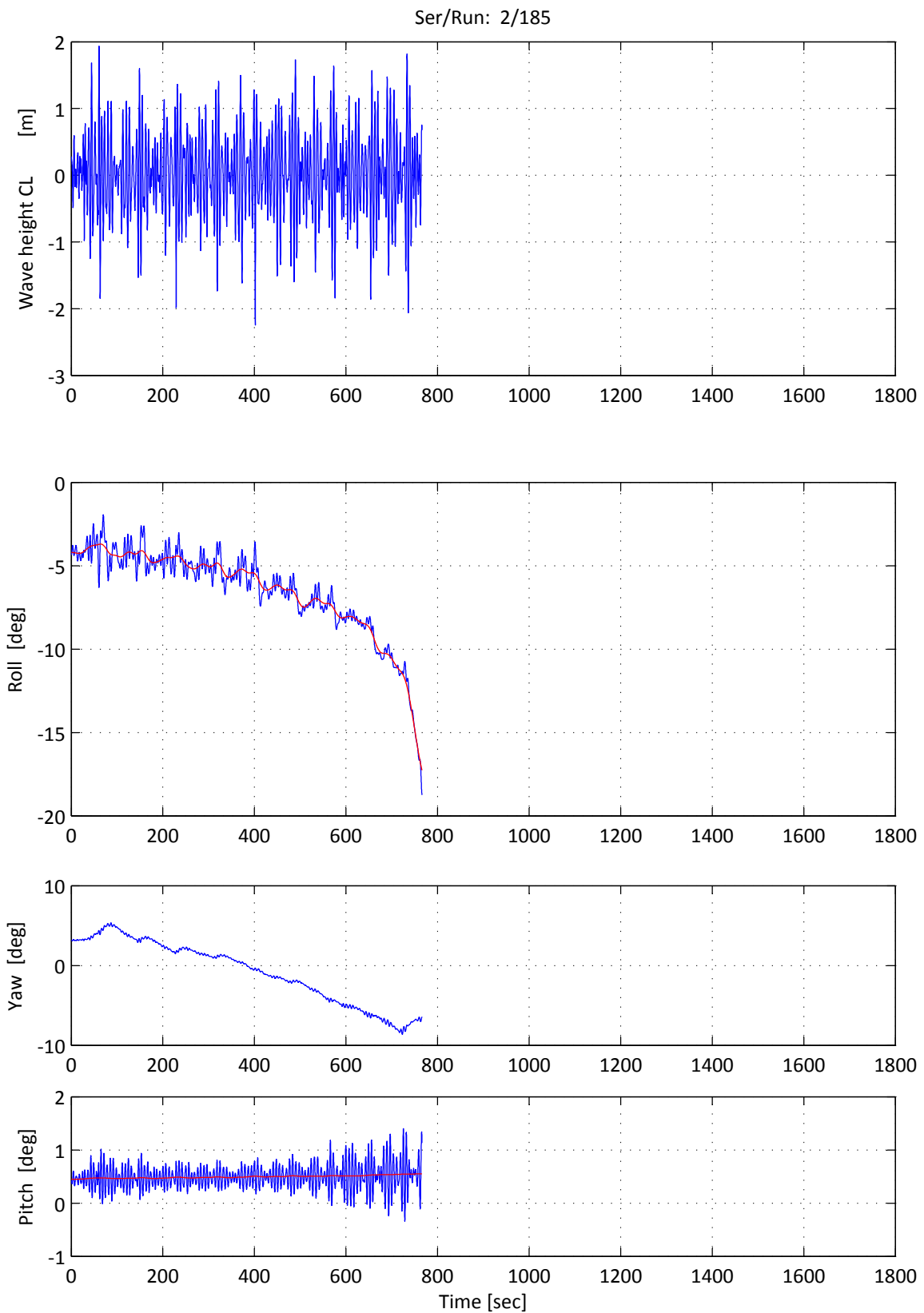
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 35



FLOODSTAND

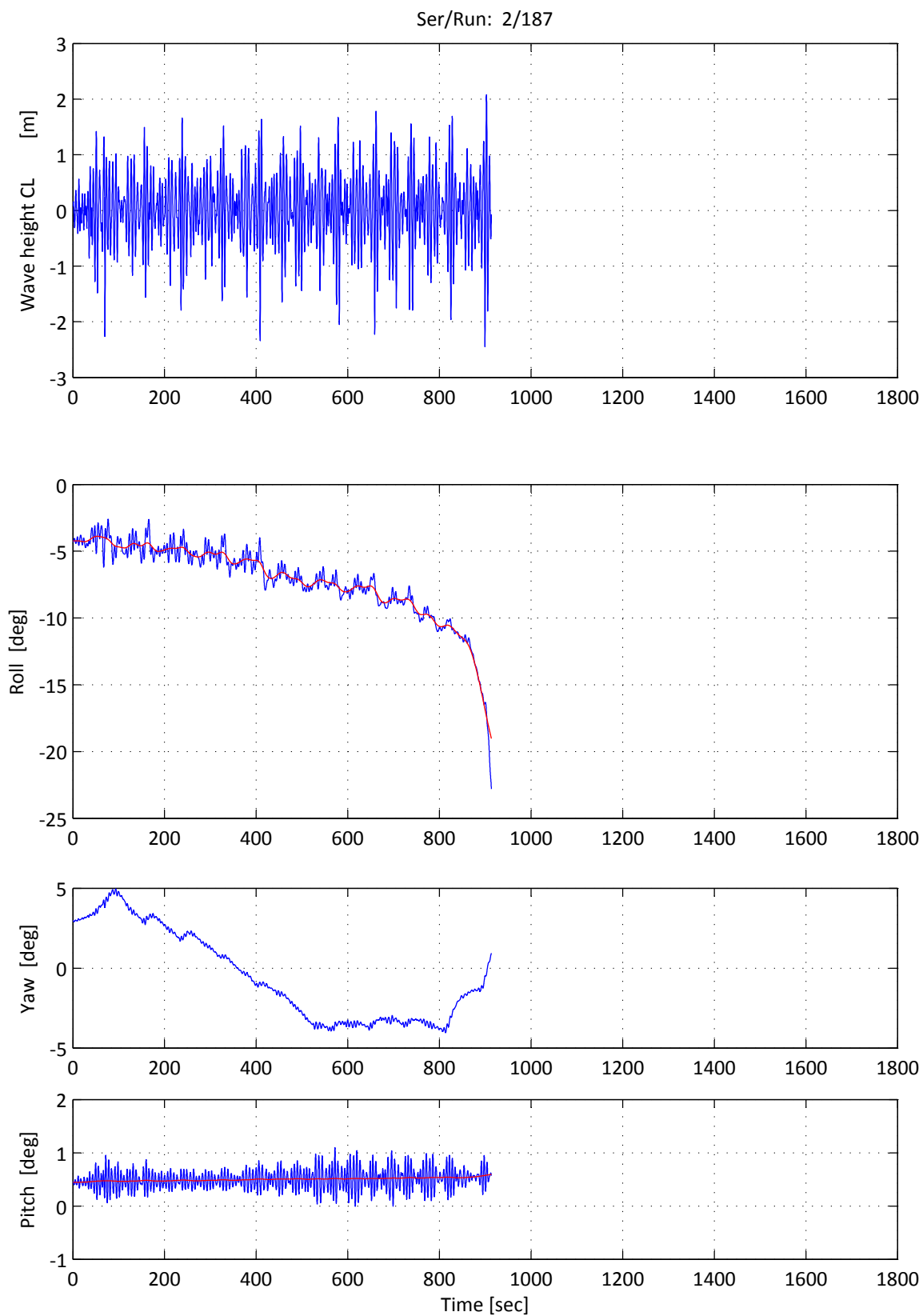
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 36



FLOODSTAND

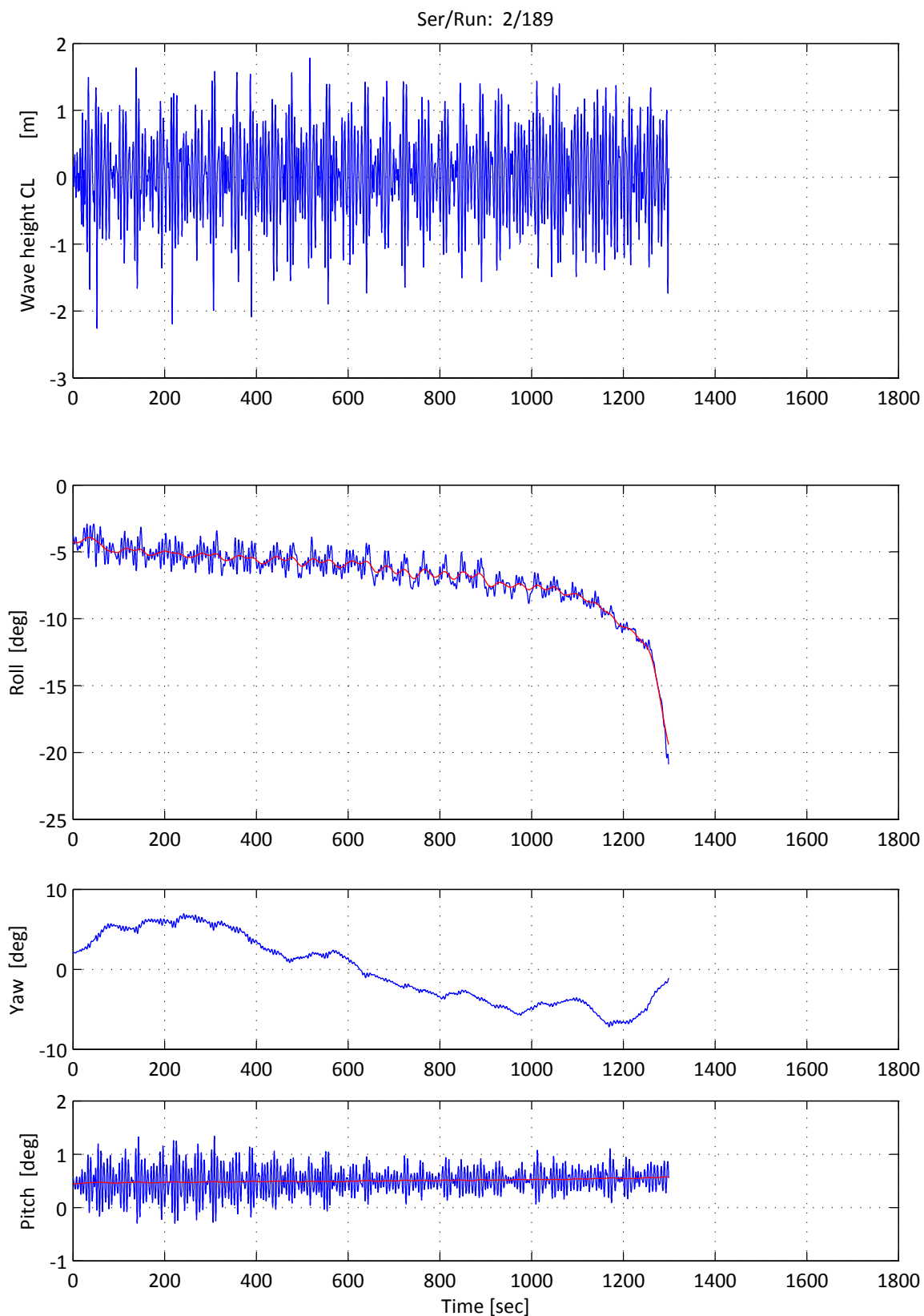
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 37



FLOODSTAND

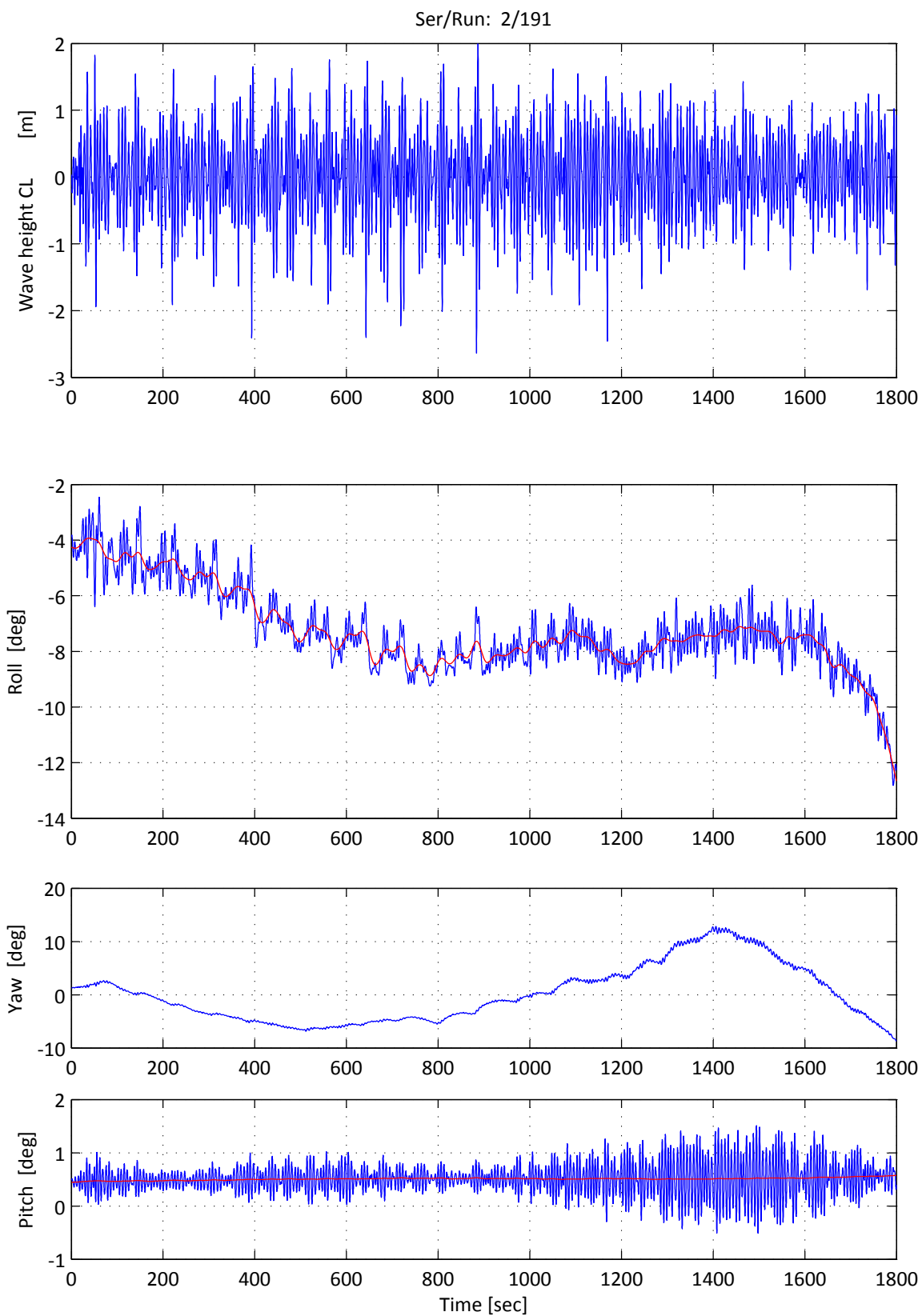
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 38



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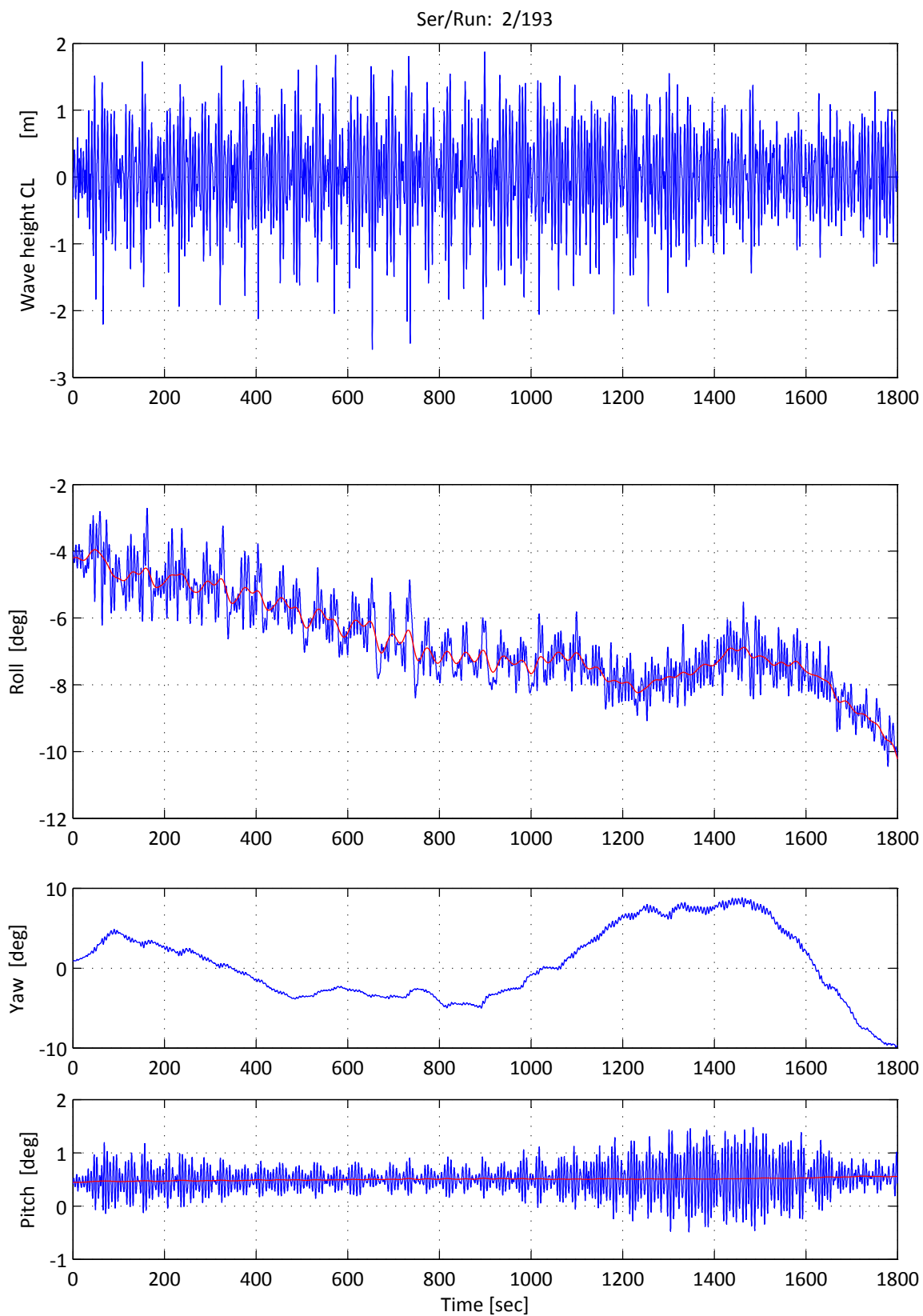
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 39



FLOODSTAND

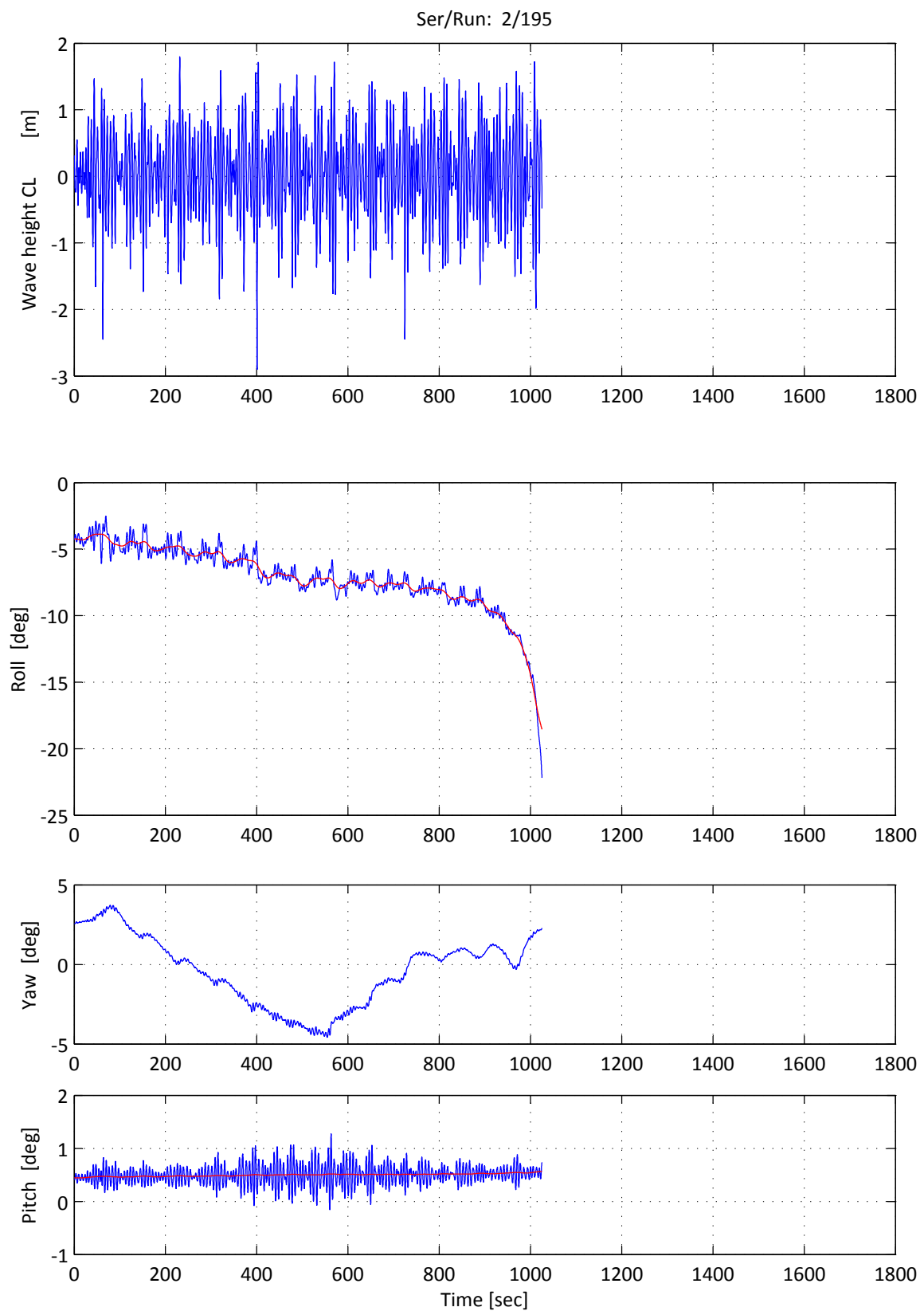
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 40



FLOODSTAND

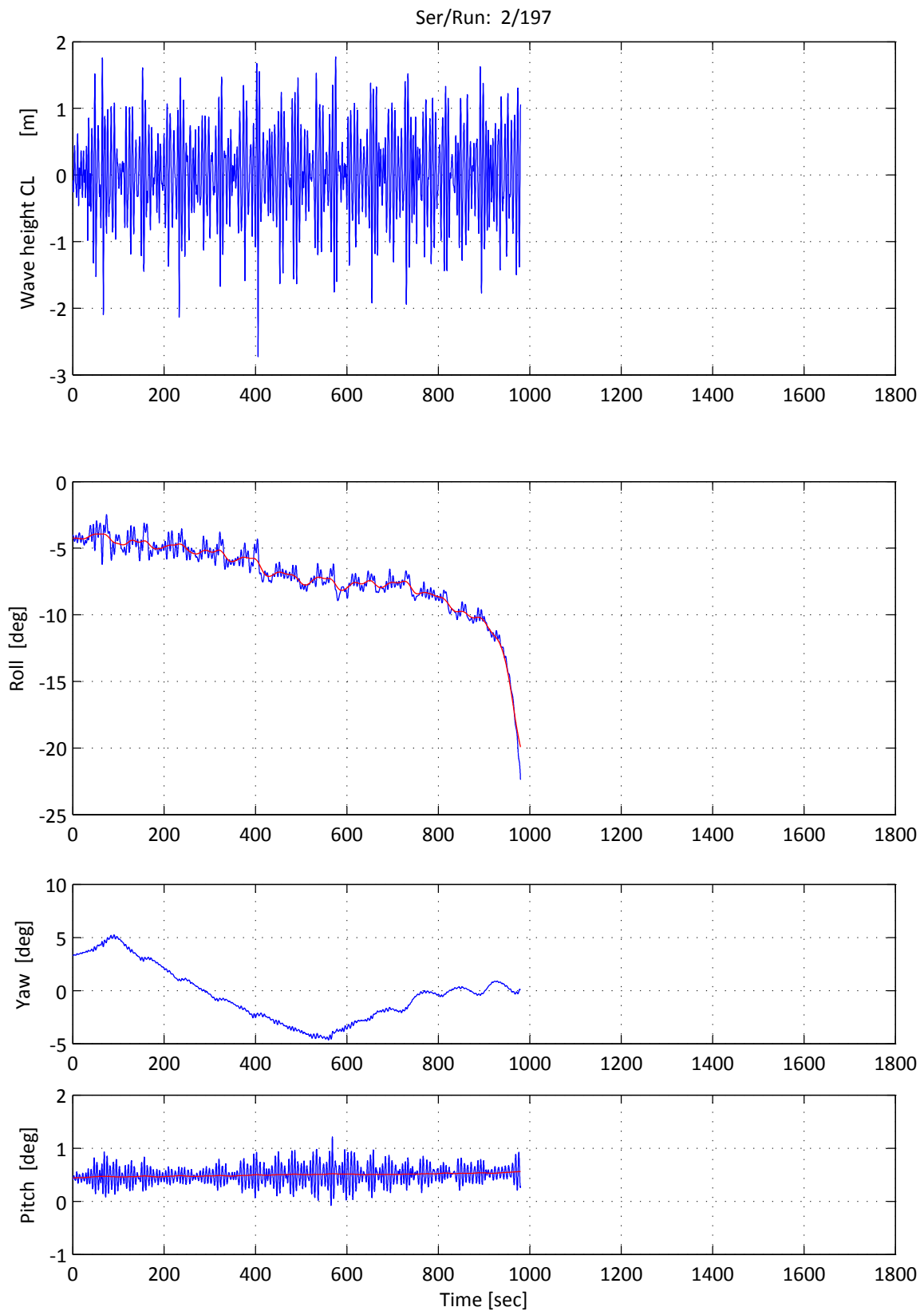
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 41



FLOODSTAND

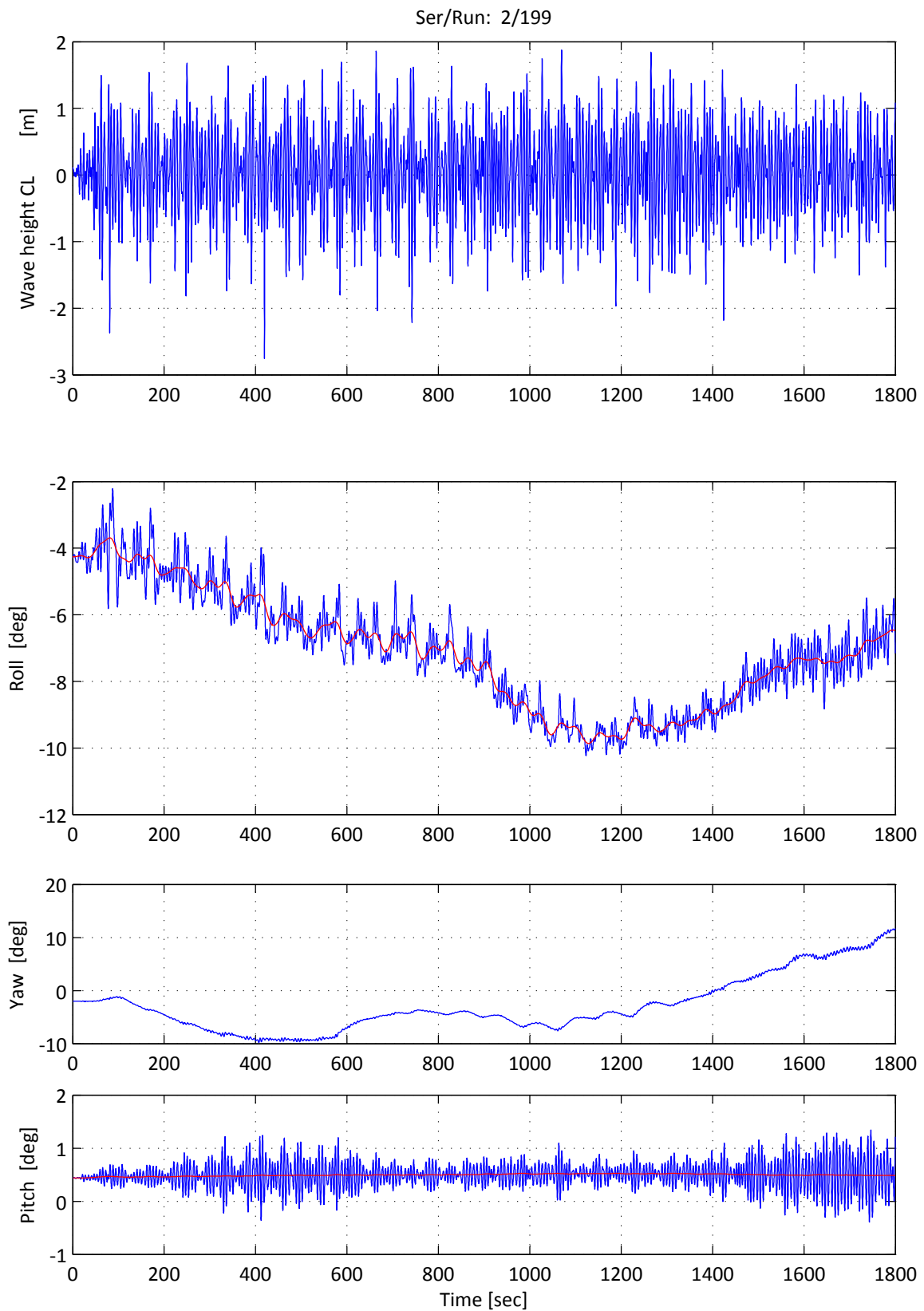
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 42



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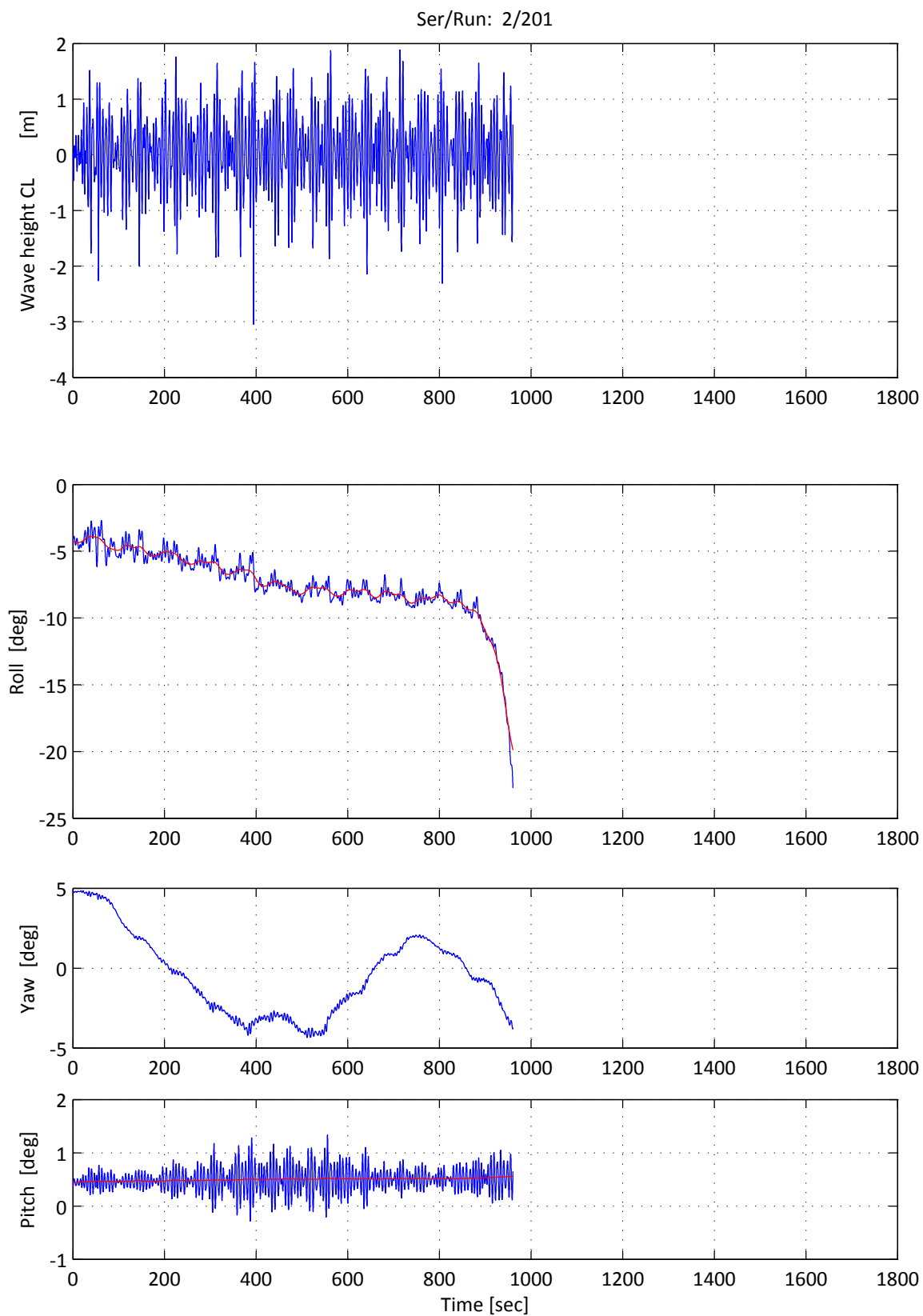
Jonswap spectrum

$H_{1/3} = 2.6 \text{ m}$ $T_p = 6.45 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 43



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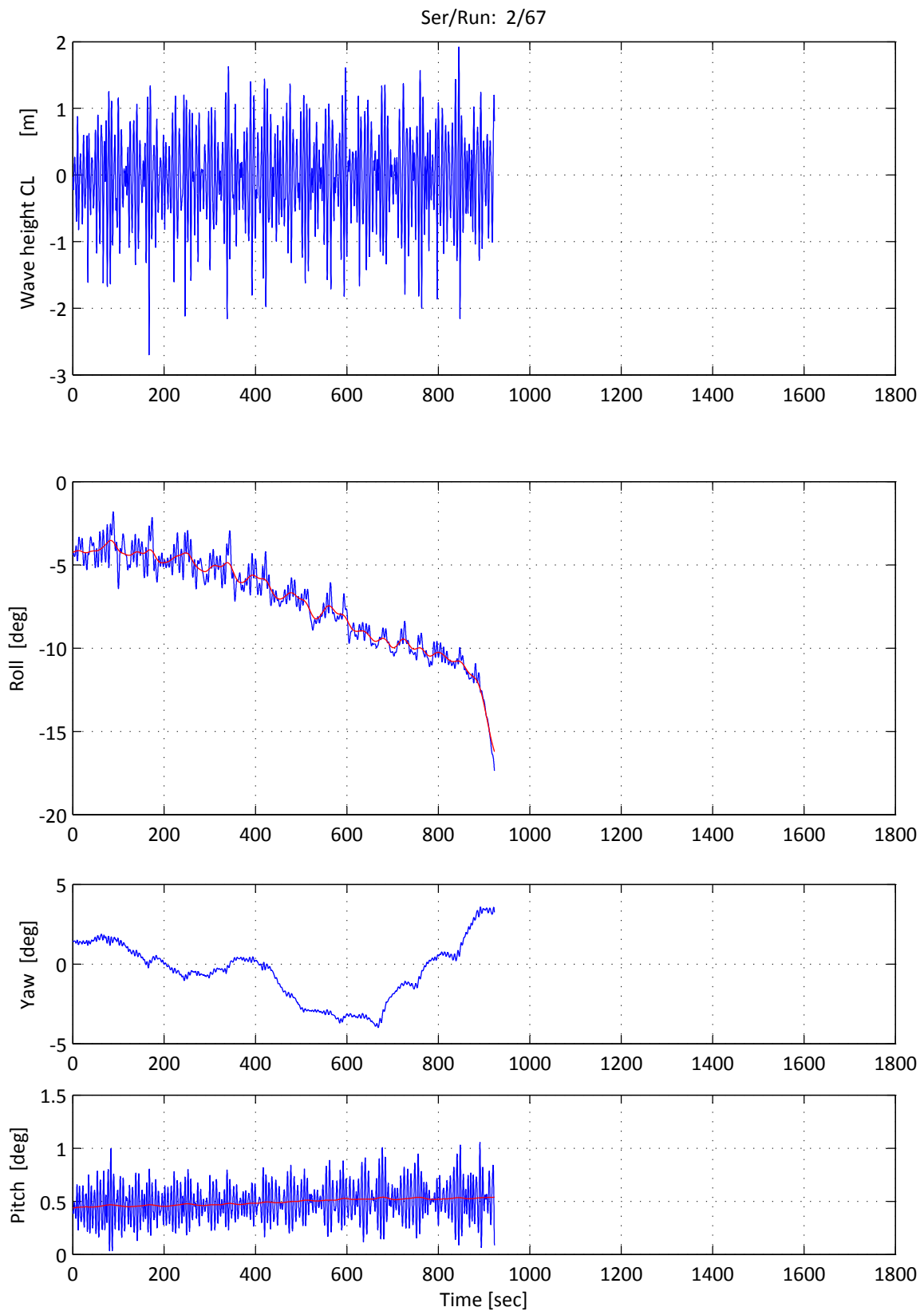
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 44



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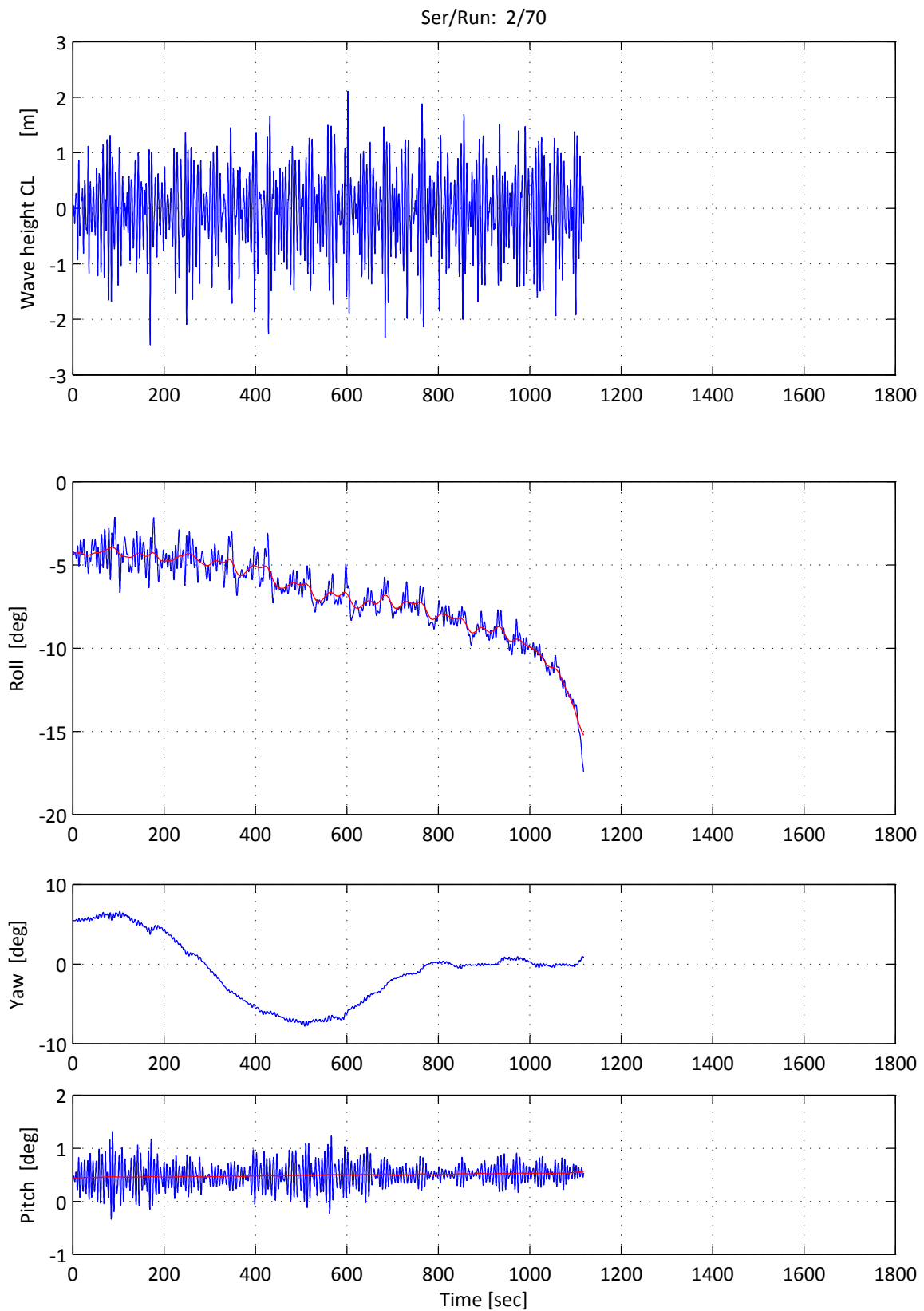
Jonswap spectrum

$H_{1/3} = 2.75$ m $T_p = 6.63$ sec $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 45



FLOODSTAND

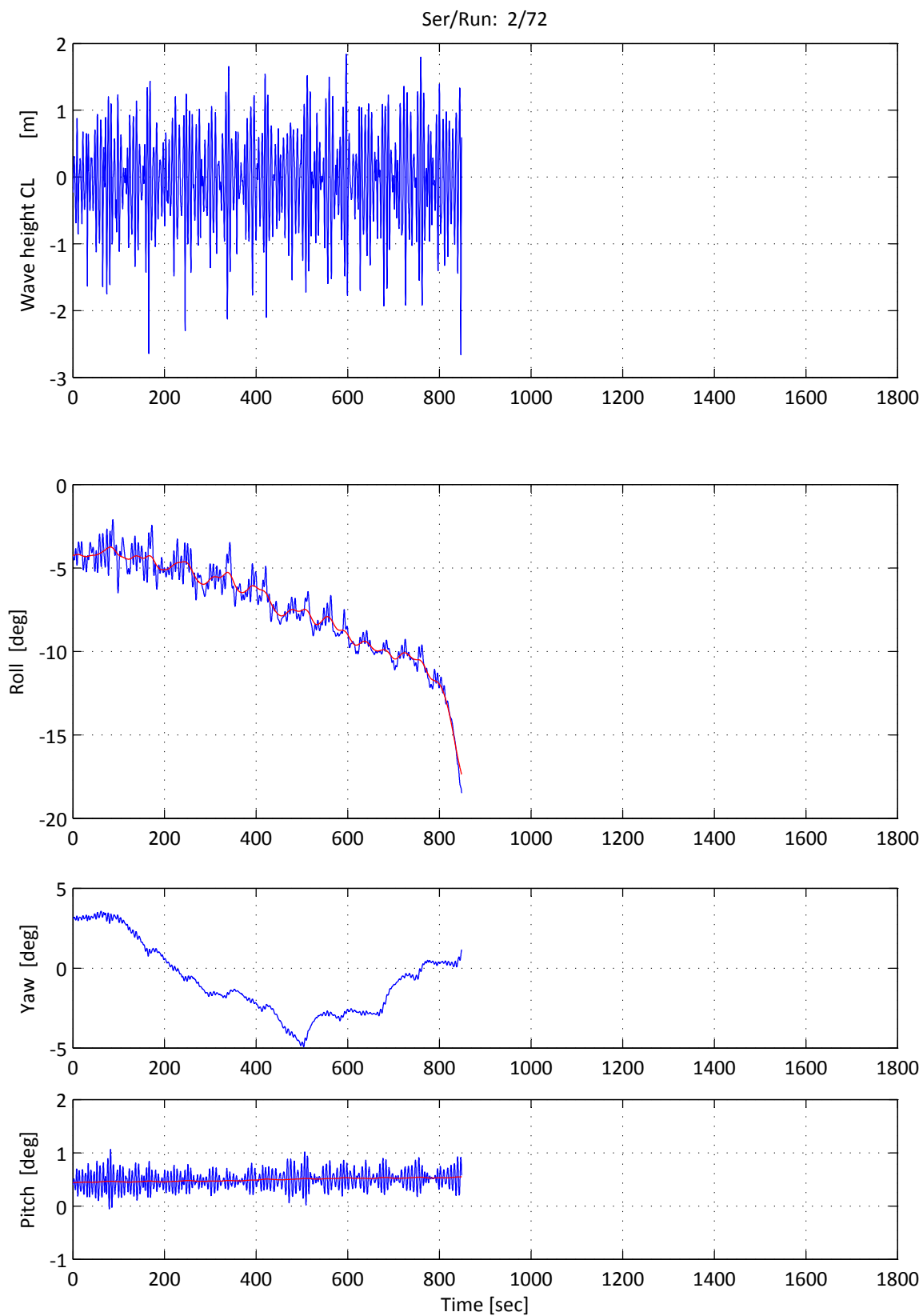
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 46



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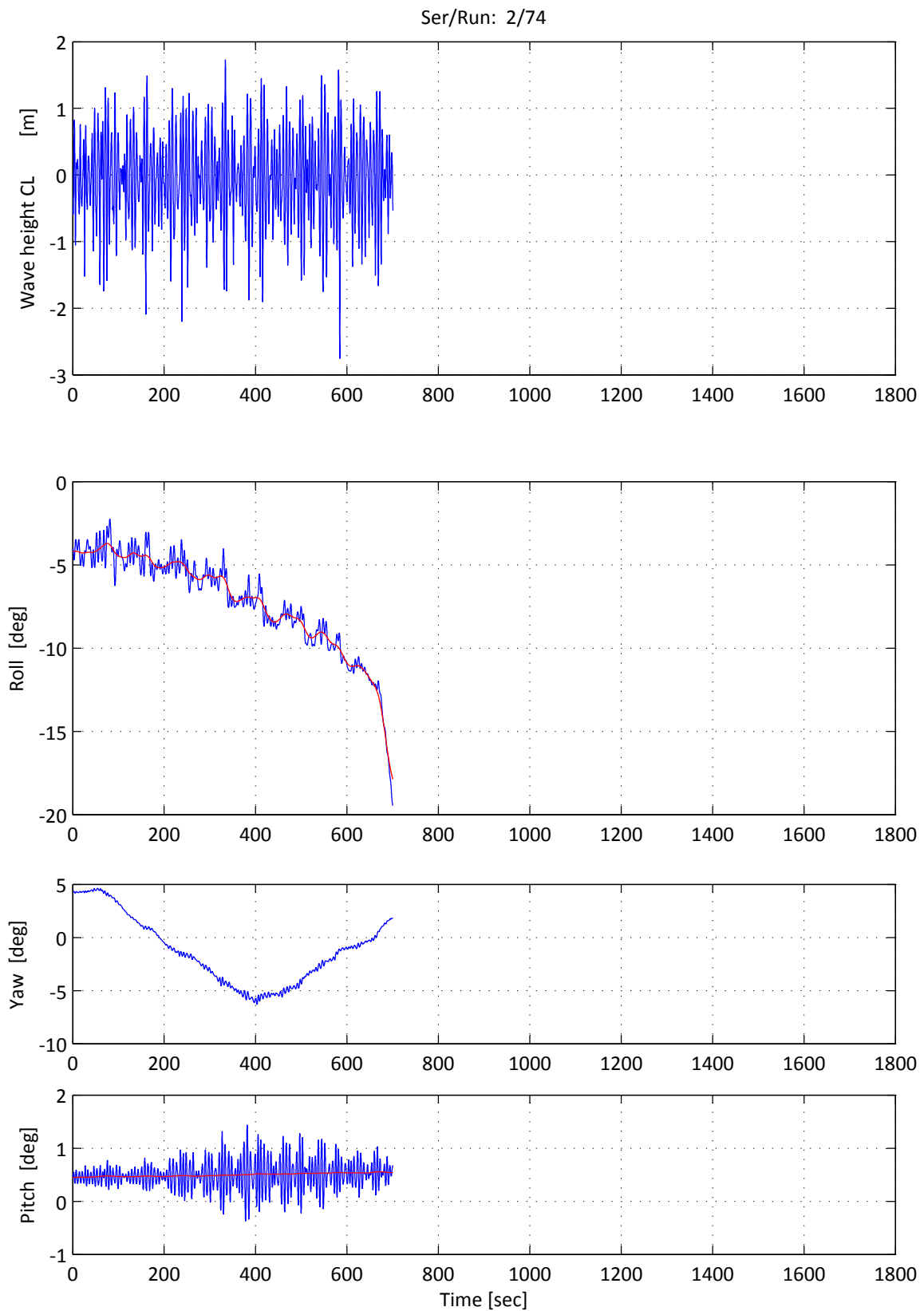
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 47



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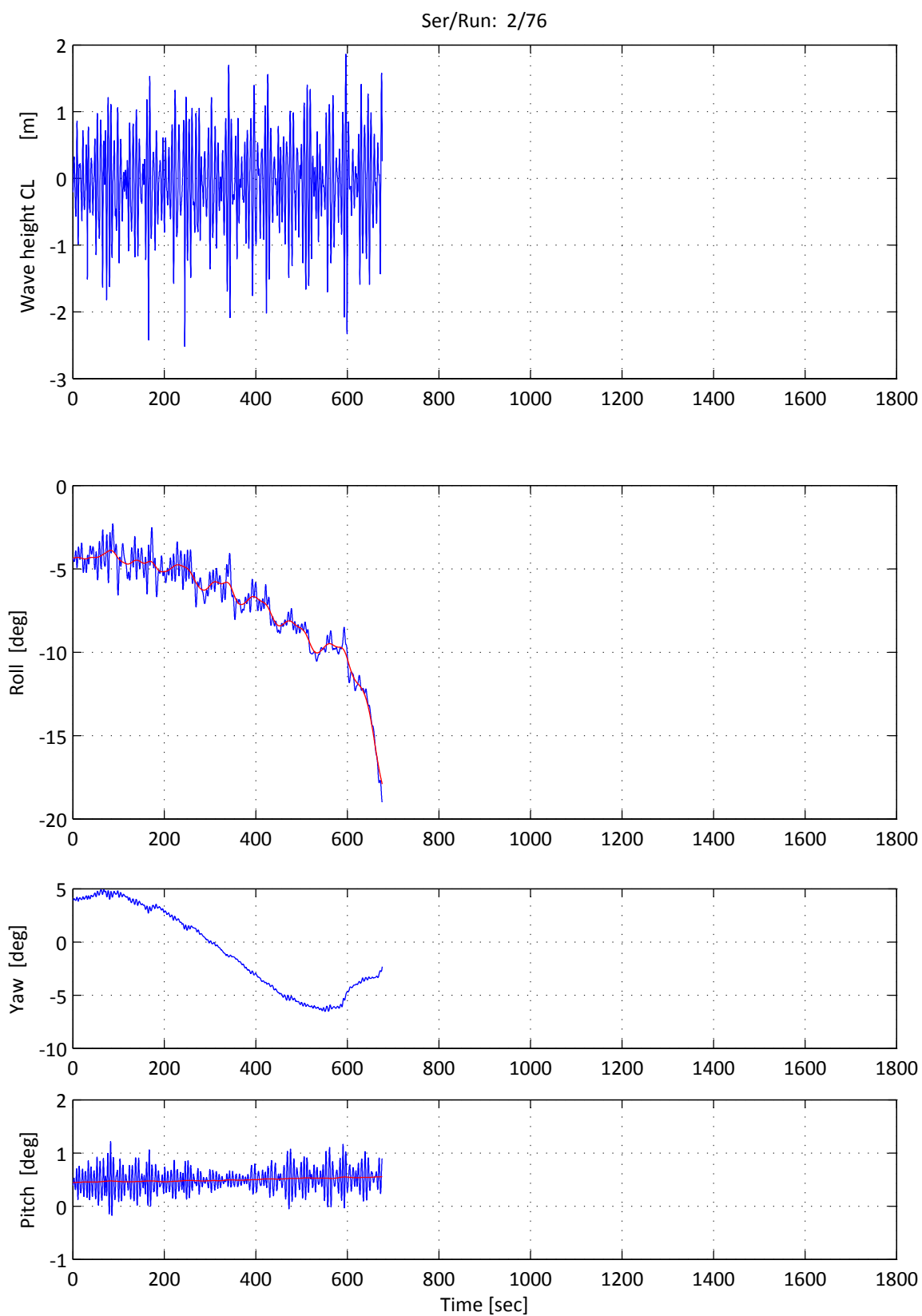
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 48



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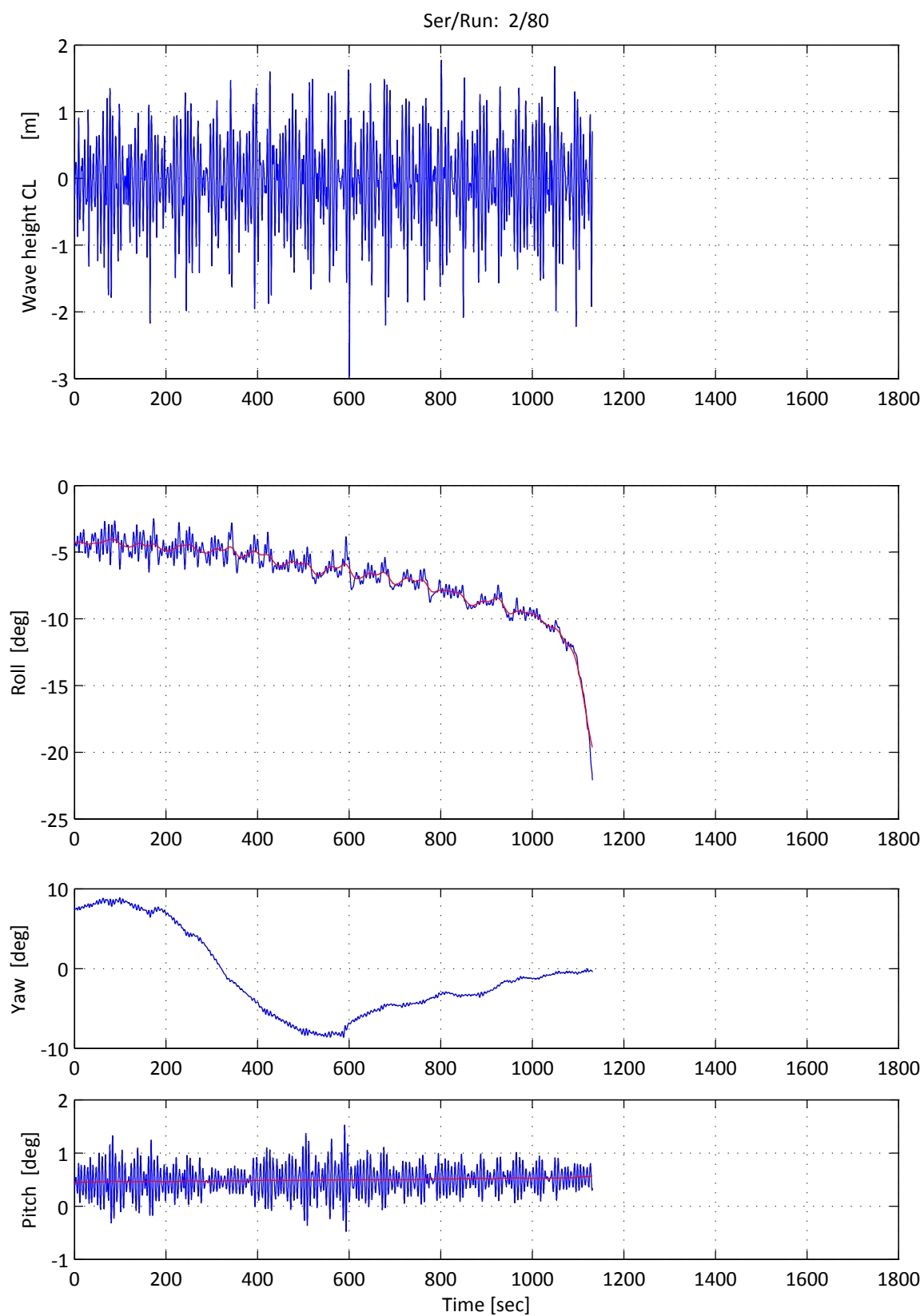
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 49



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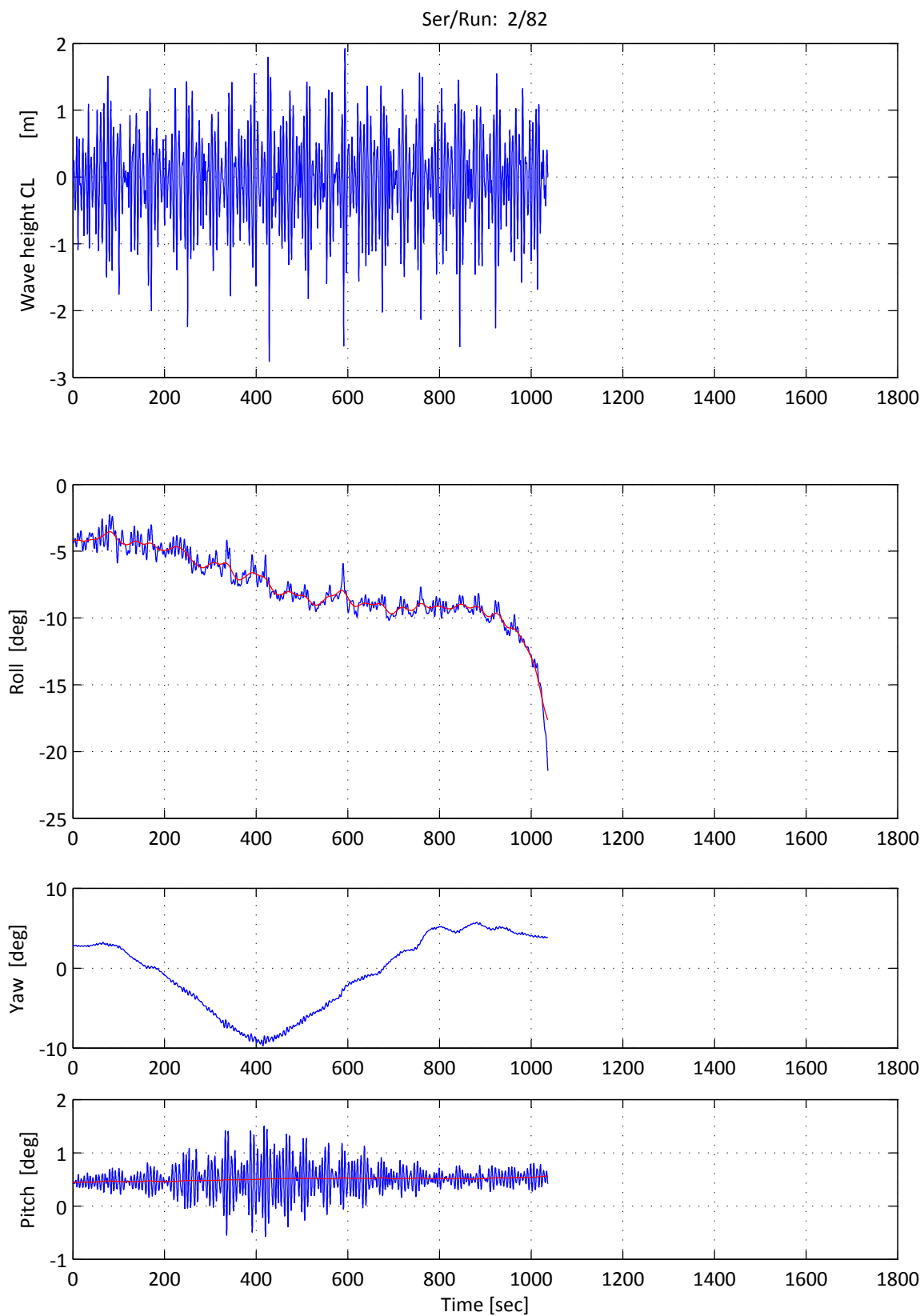
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 50



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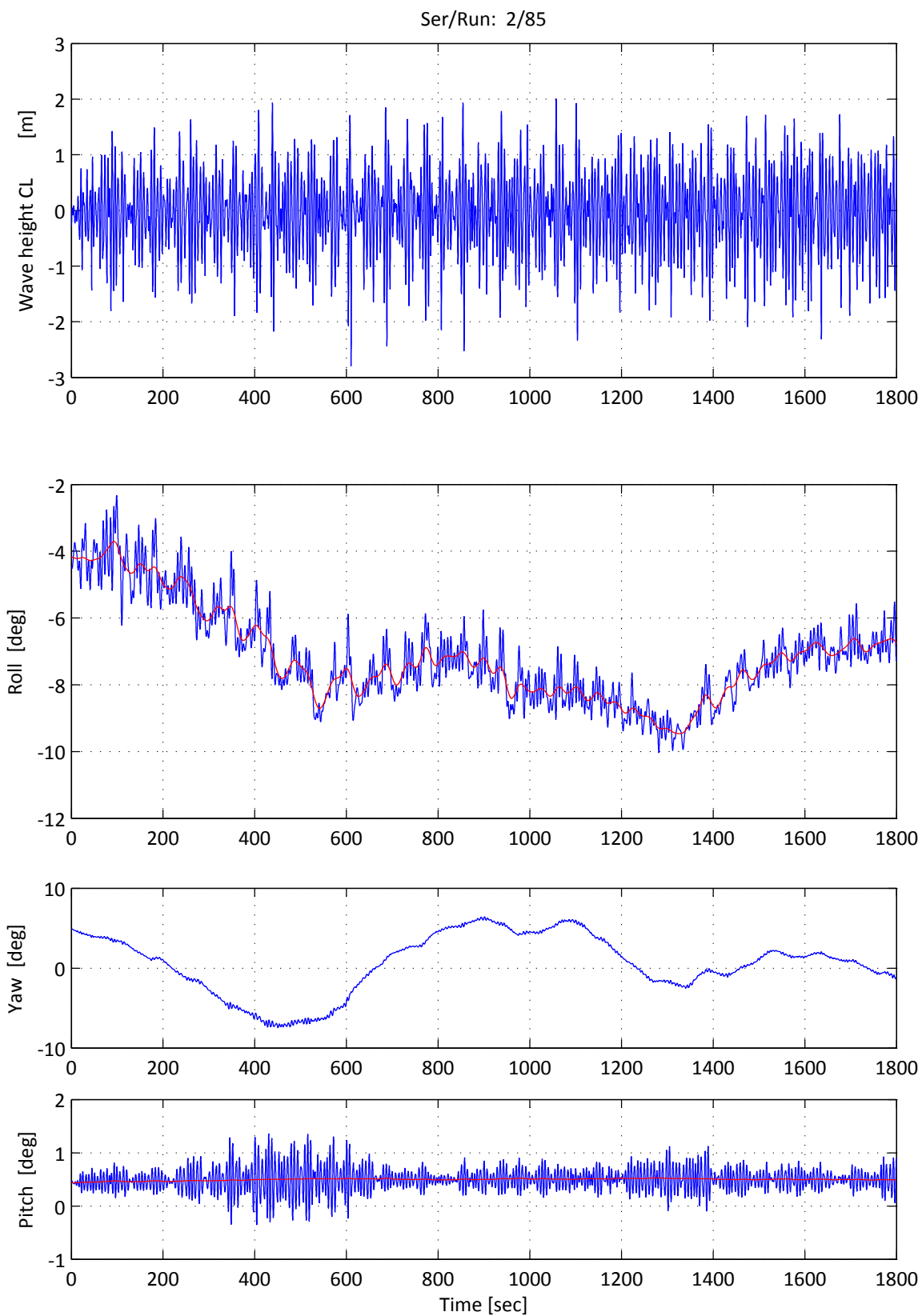
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 51



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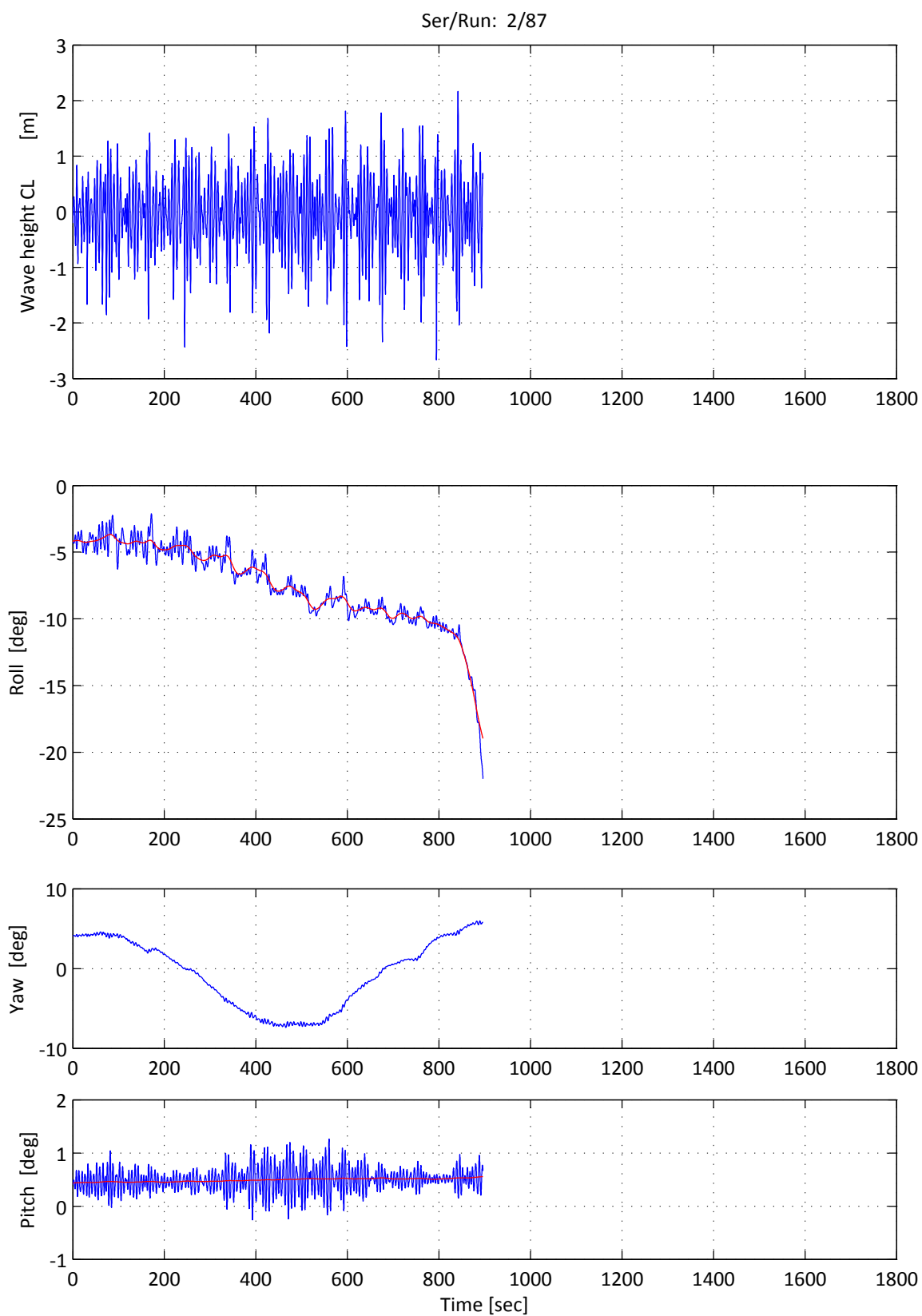
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 52



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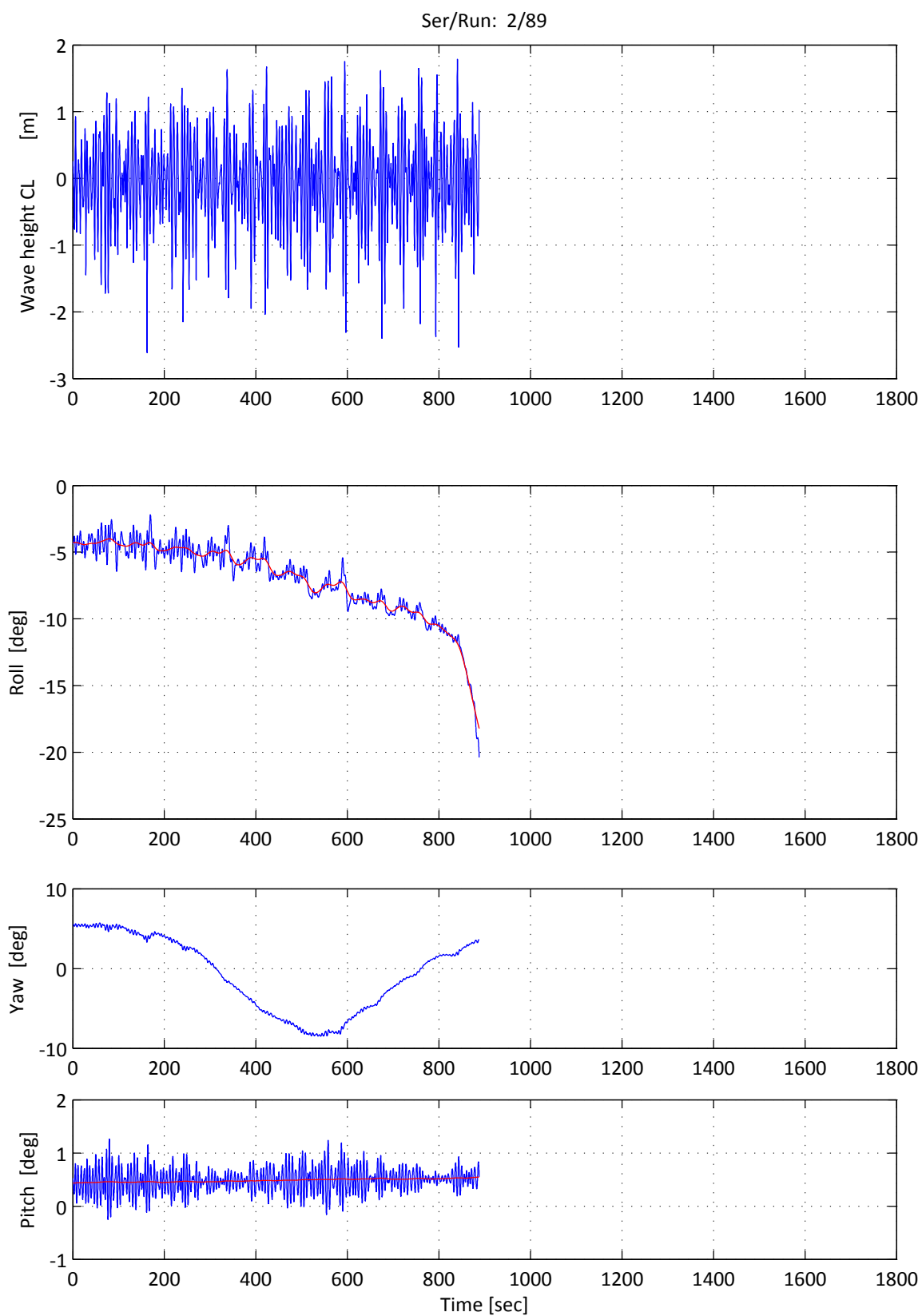
Jonswap spectrum

$H_{1/3} = 2.75$ m $T_p = 6.63$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 53



FLOODSTAND

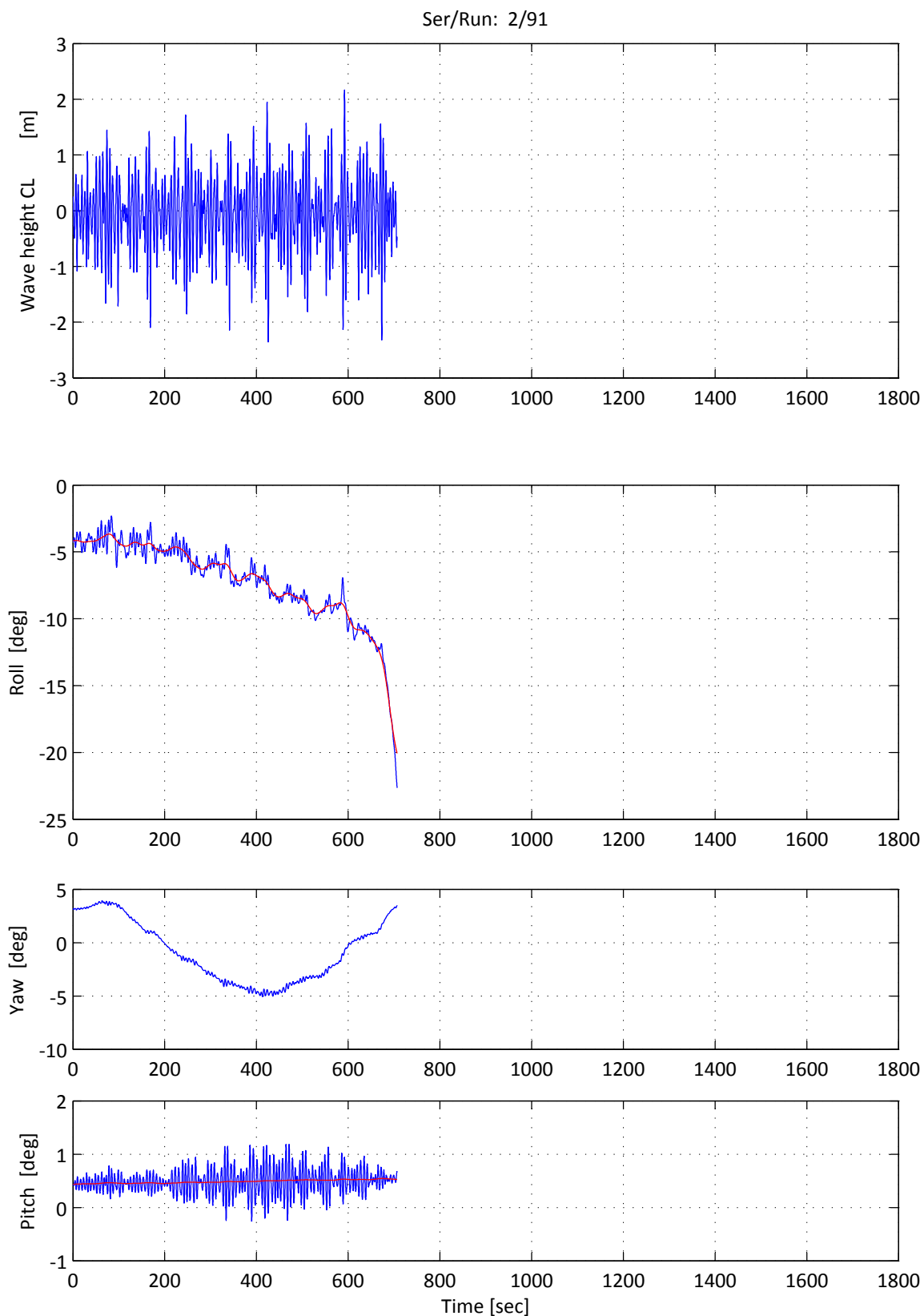
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 54



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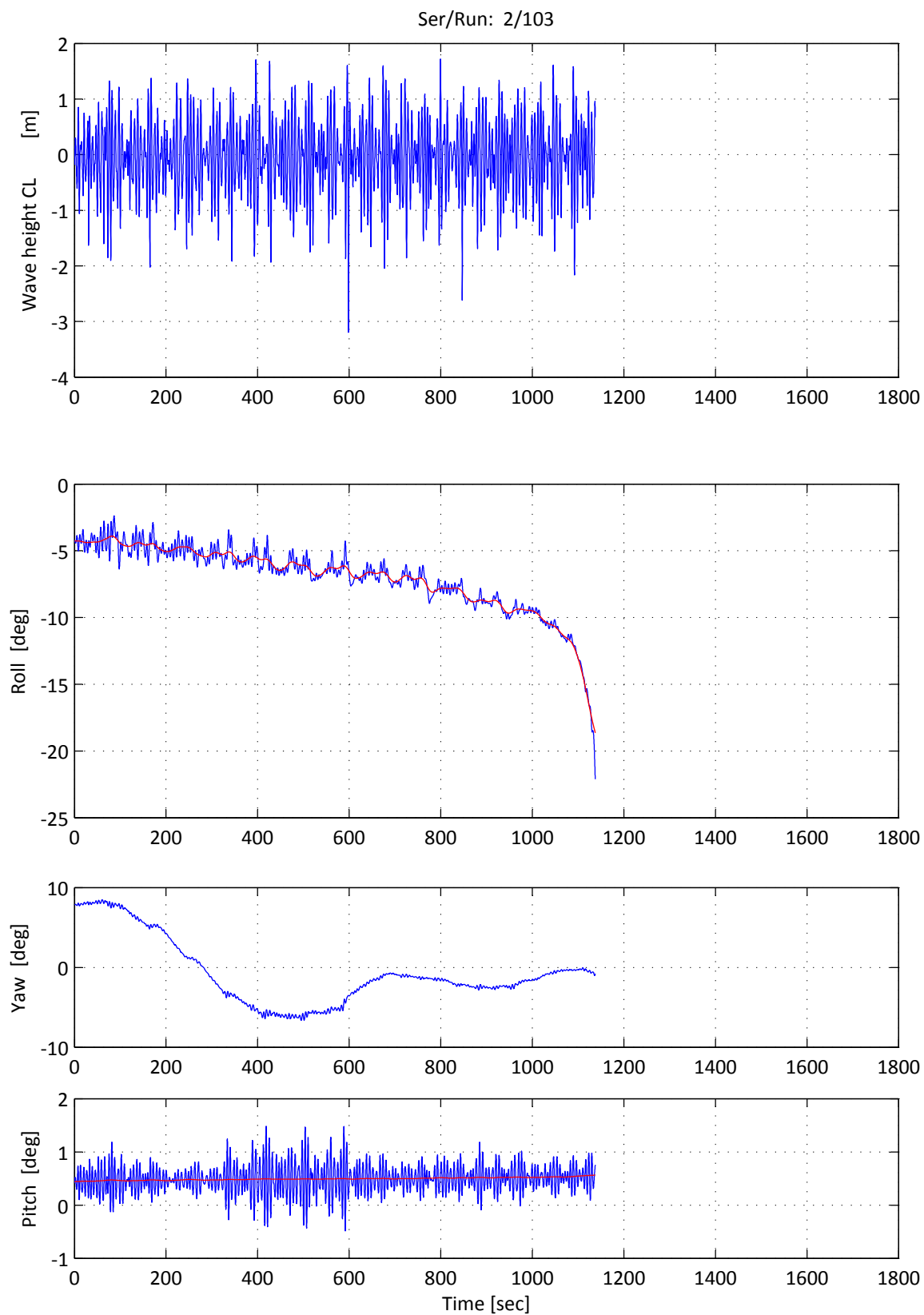
Jonswap spectrum

$H_{1/3} = 2.75$ m $T_p = 6.63$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 55



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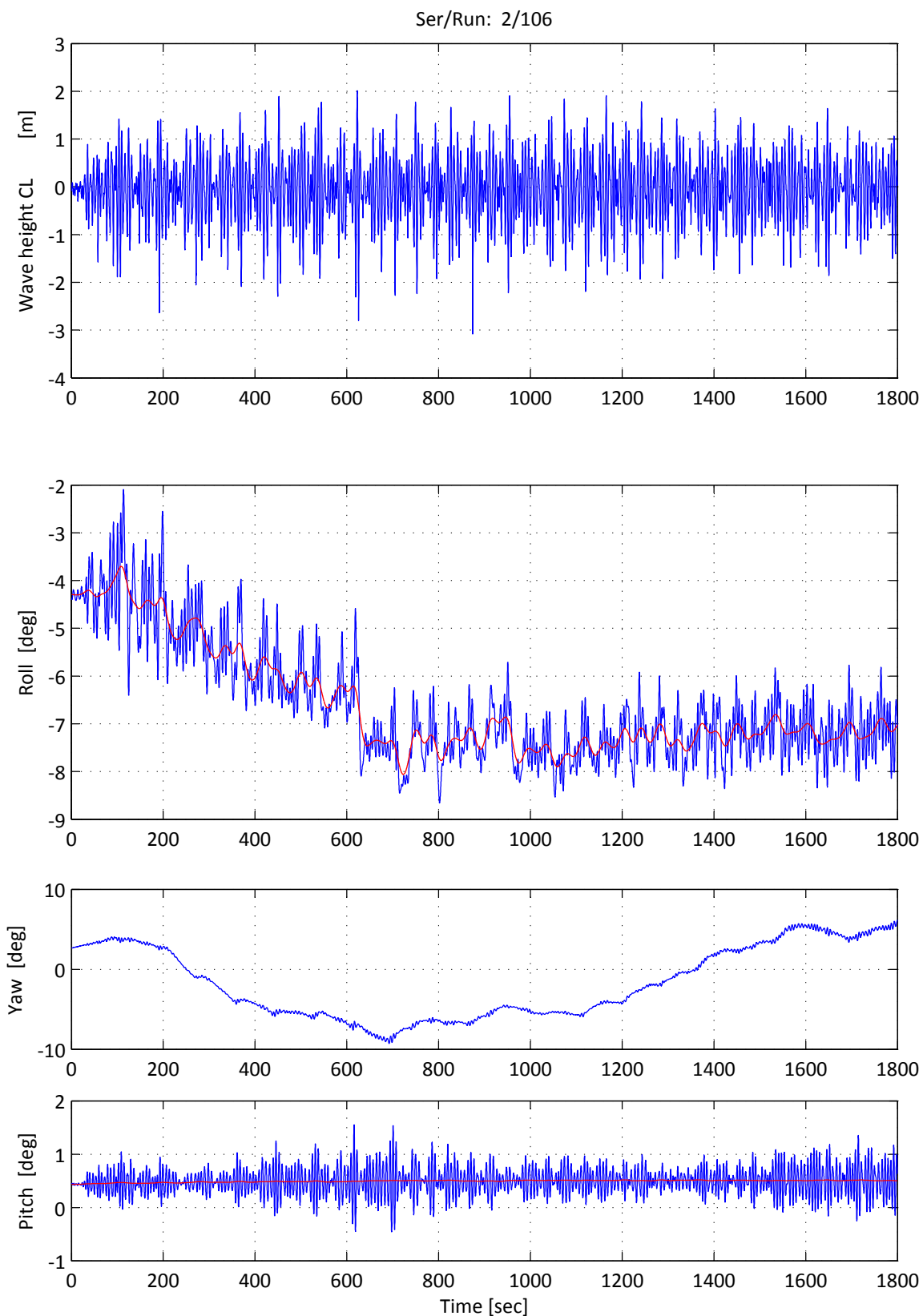
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 56



FLOODSTAND

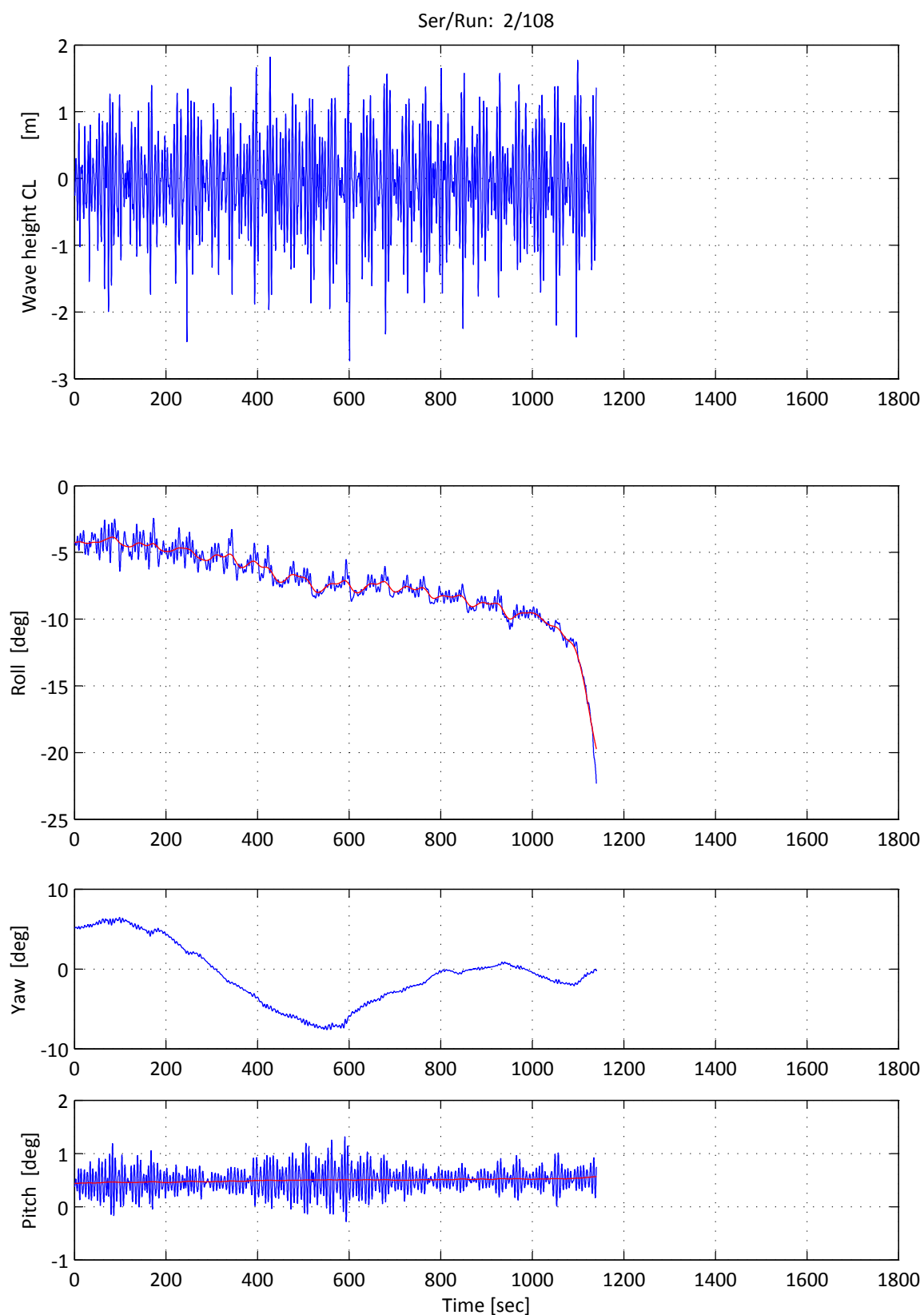
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 57



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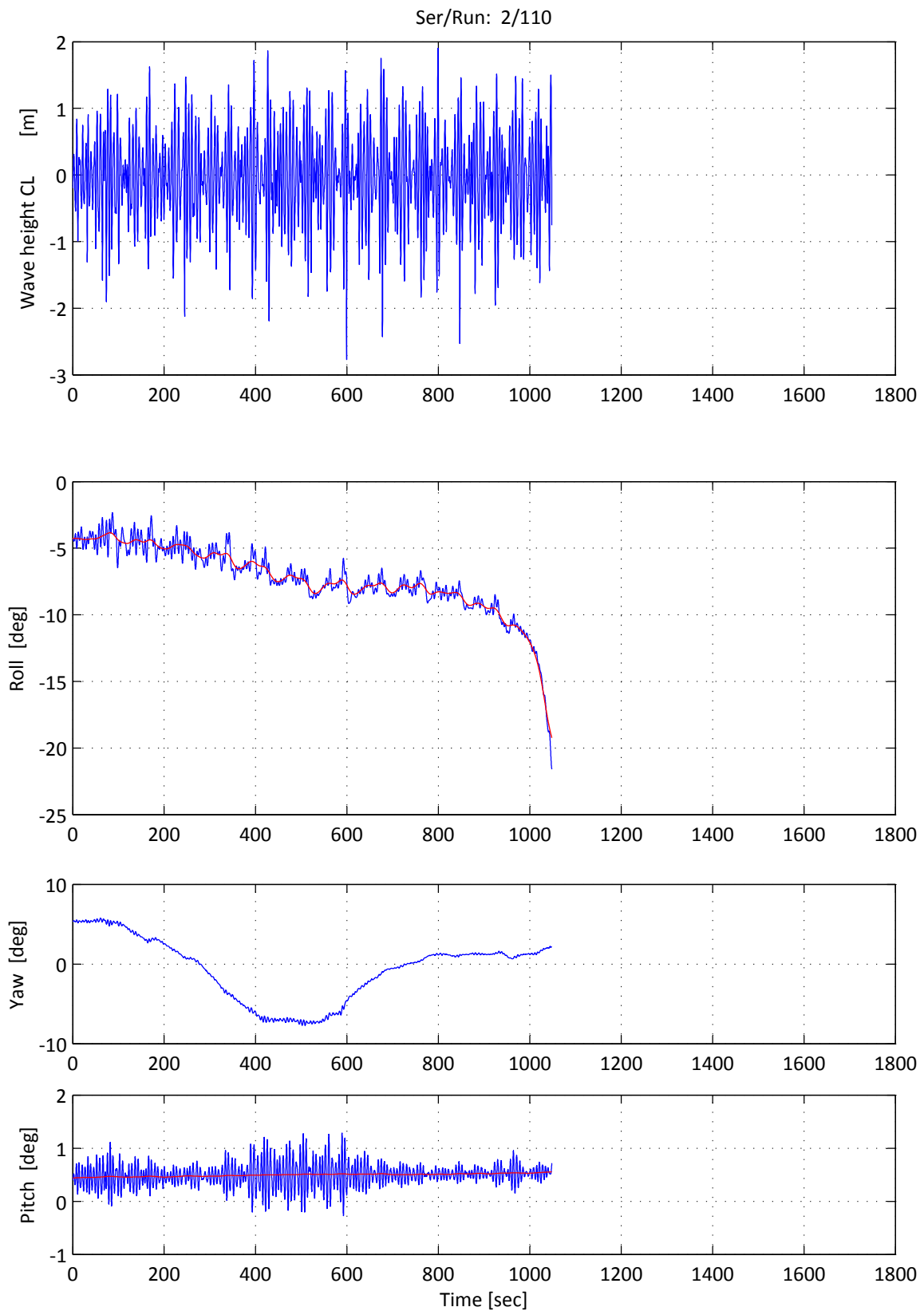
Jonswap spectrum

$H_{1/3} = 2.75$ m $T_p = 6.63$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 58



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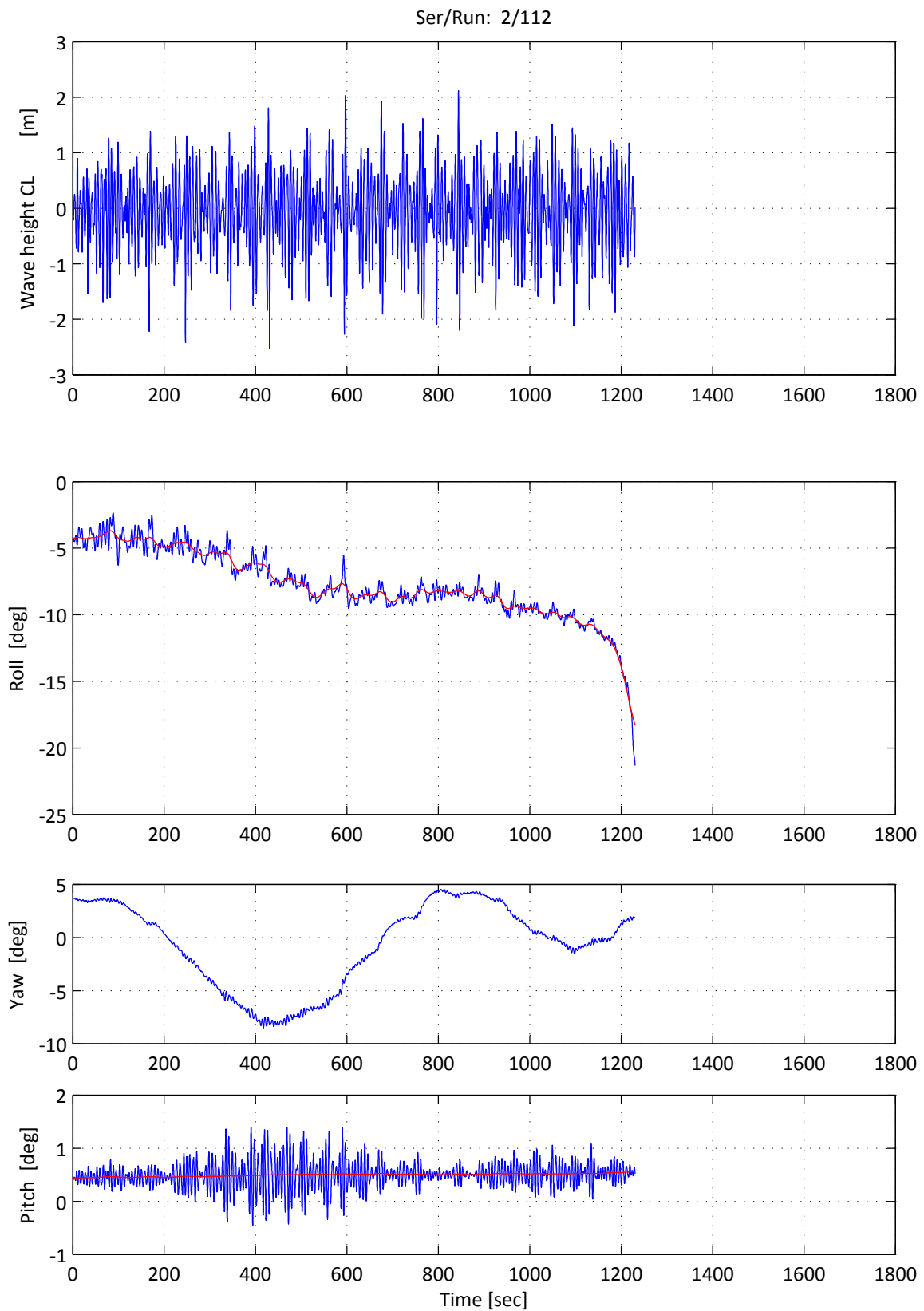
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 59



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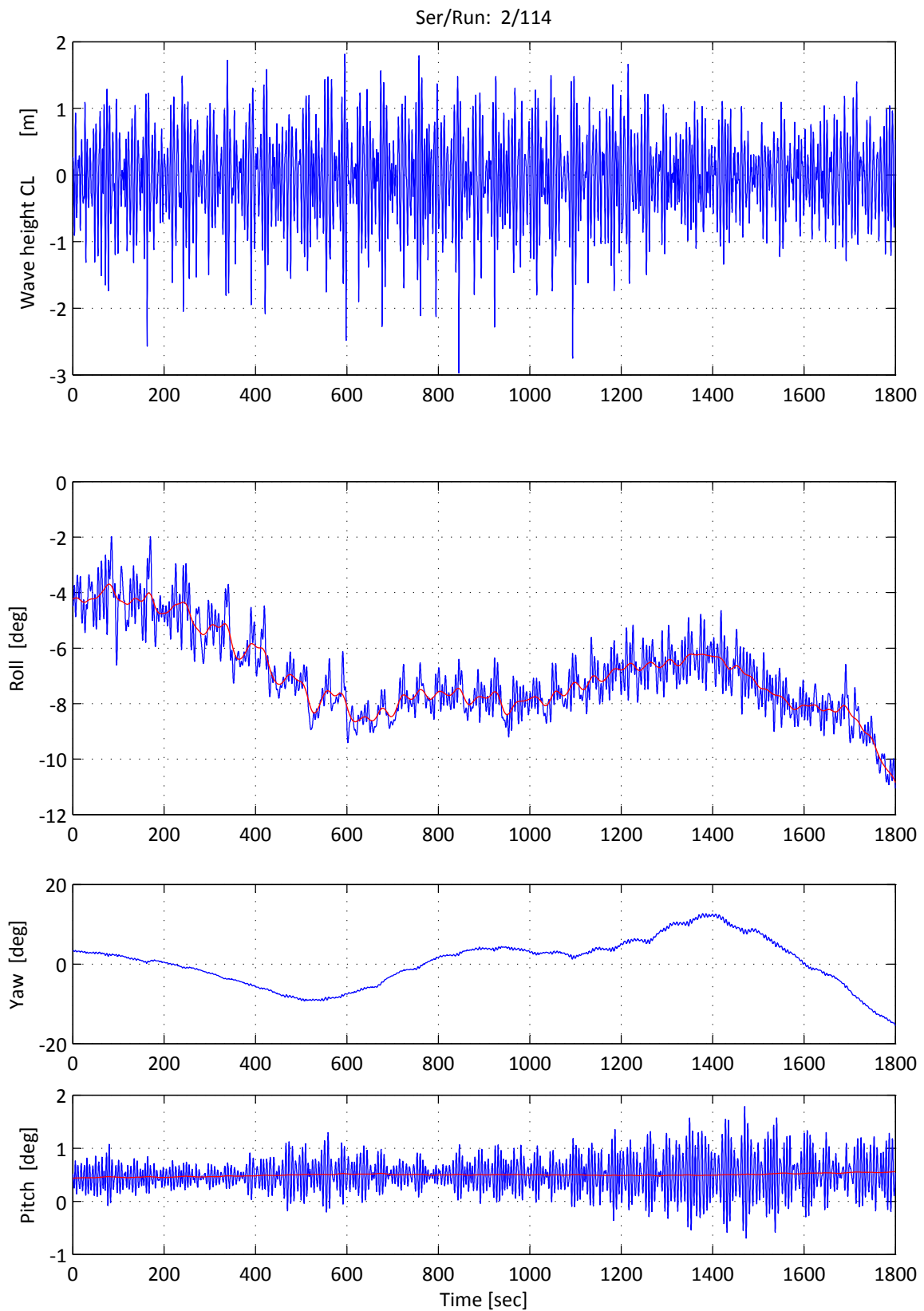
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 60



FLOODSTAND

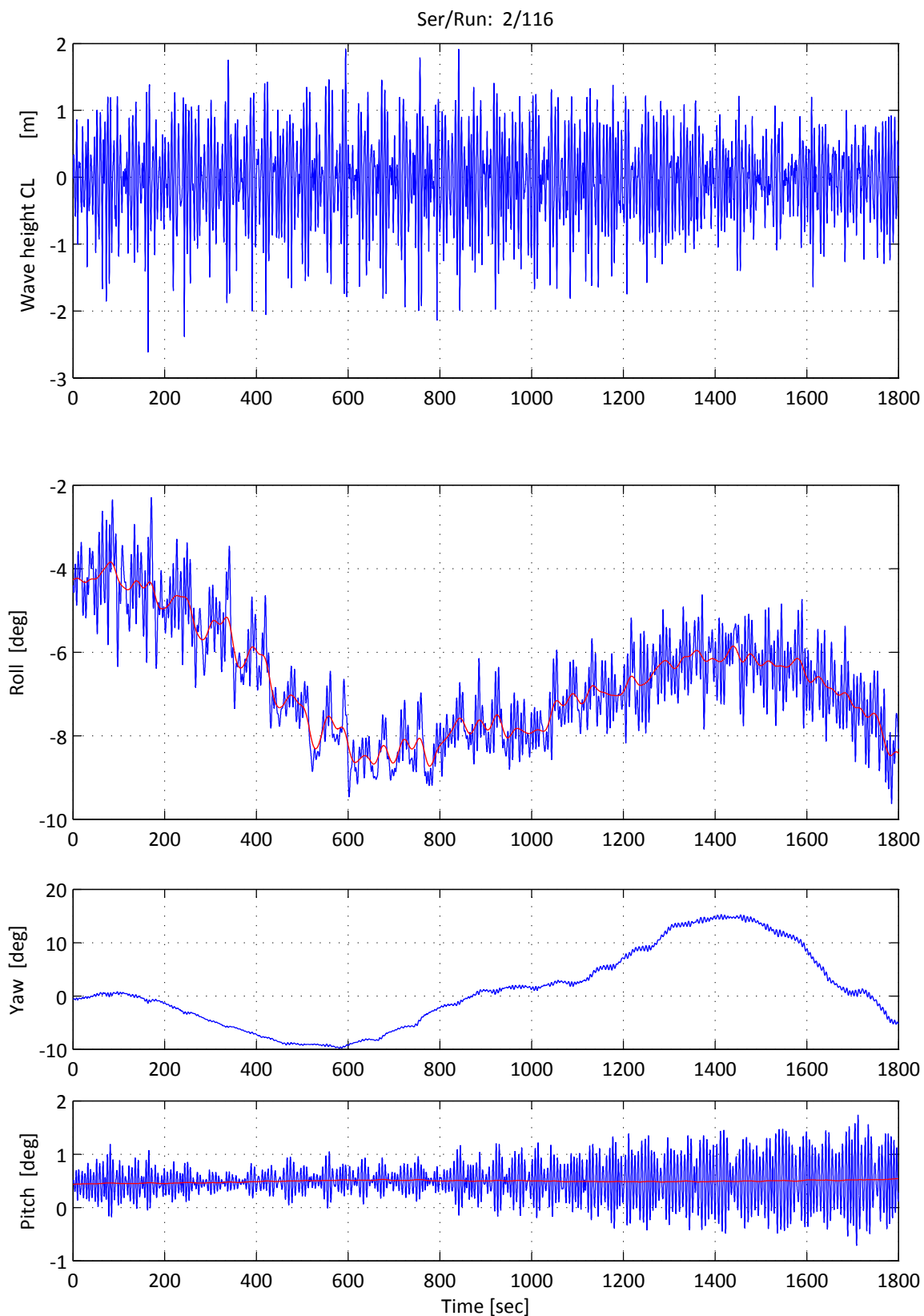
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 61



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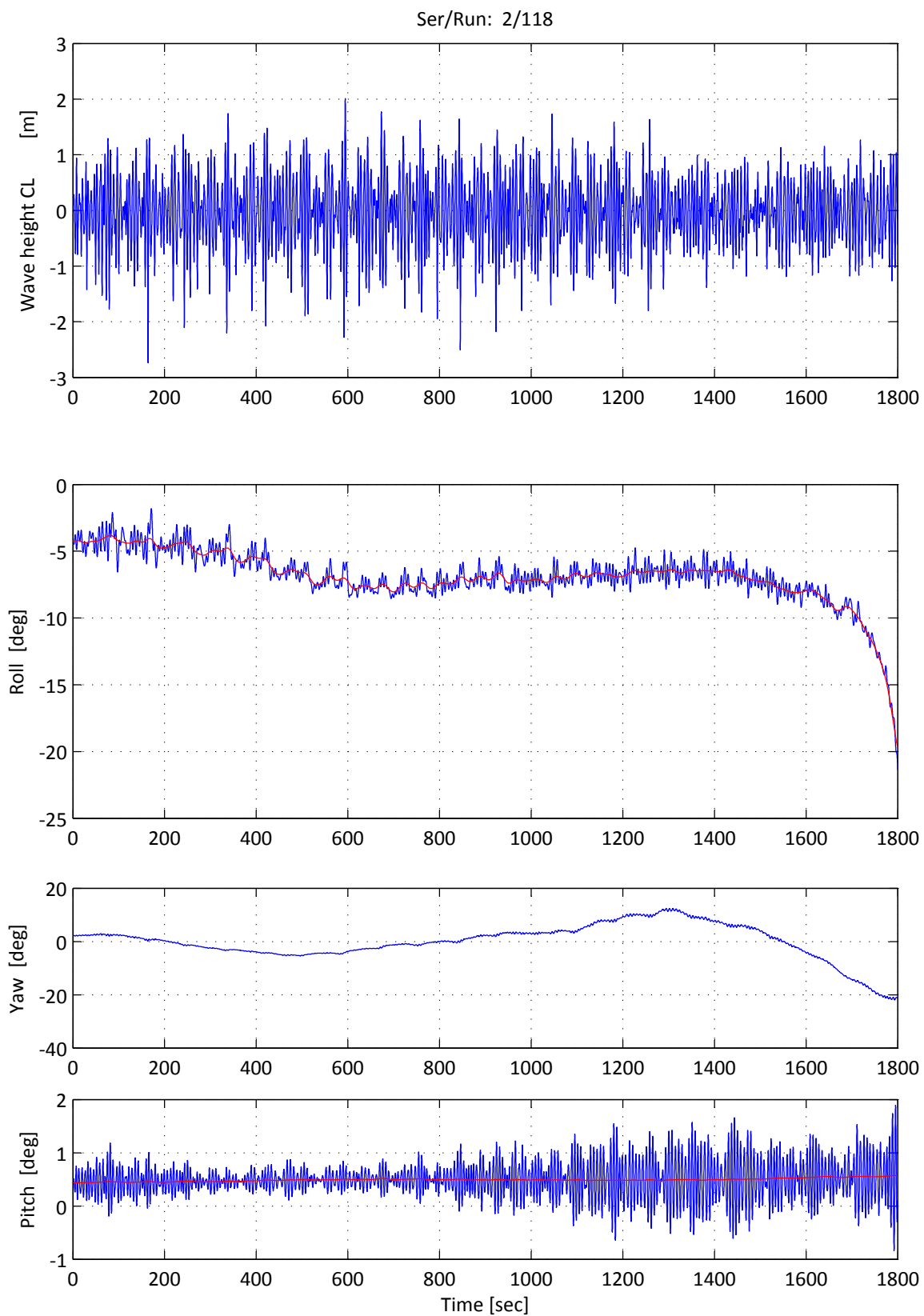
Jonswap spectrum

$H_{1/3} = 2.75$ m $T_p = 6.63$ sec $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 62



FLOODSTAND

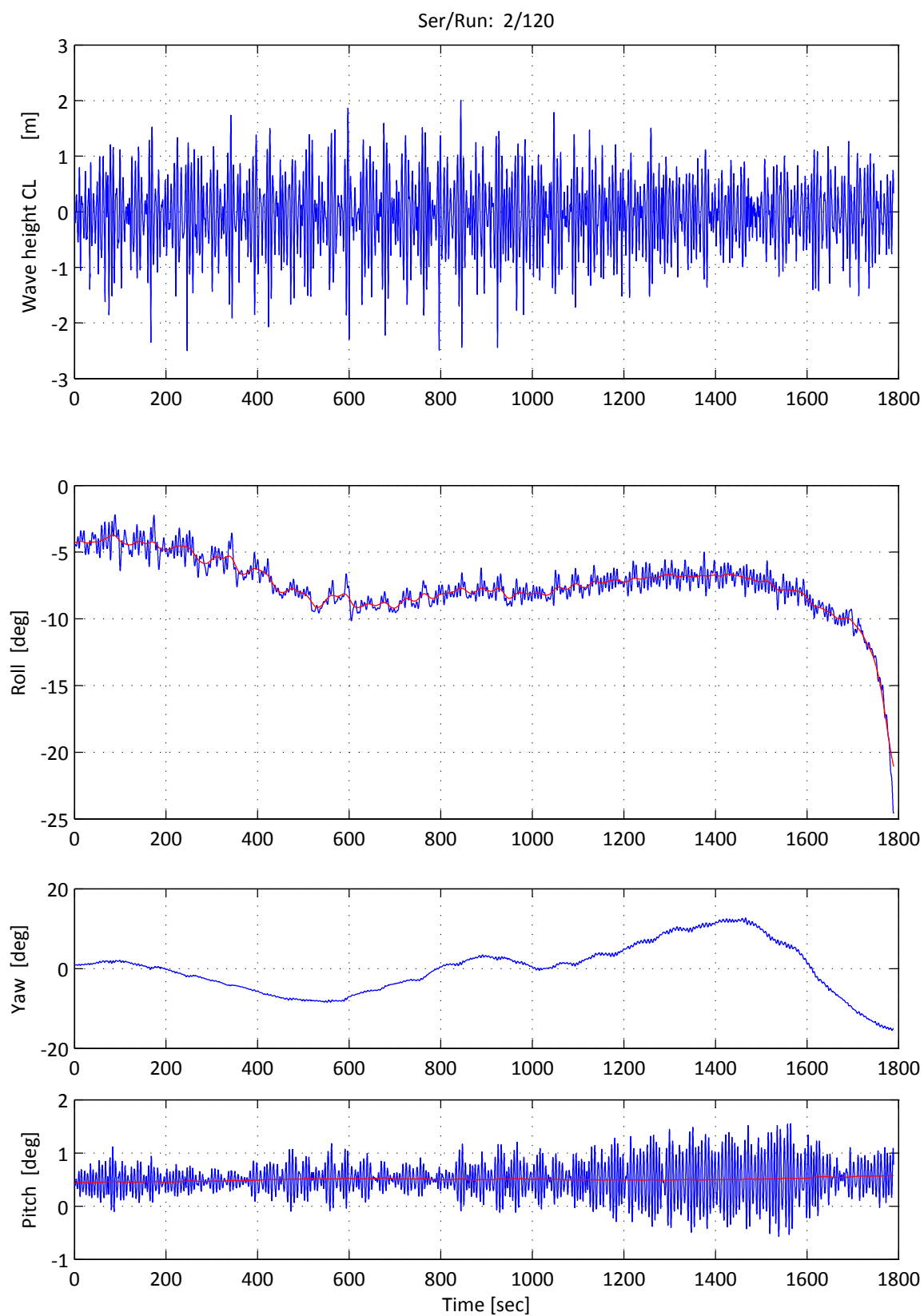
Jonswap spectrum

$H_{1/3} = 2.75 \text{ m}$ $T_p = 6.63 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 63



FLOODSTAND

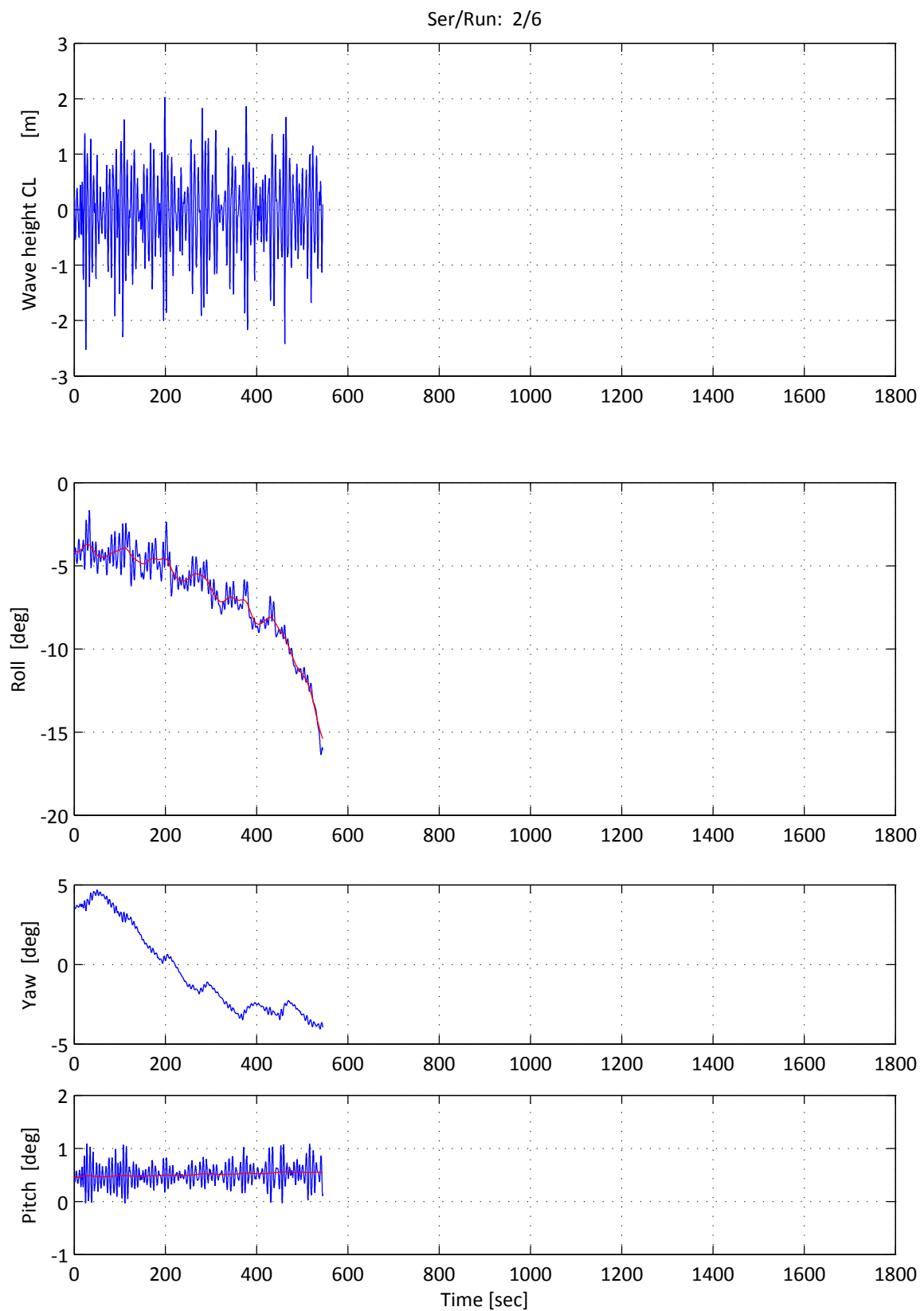
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 64



FLOODSTAND

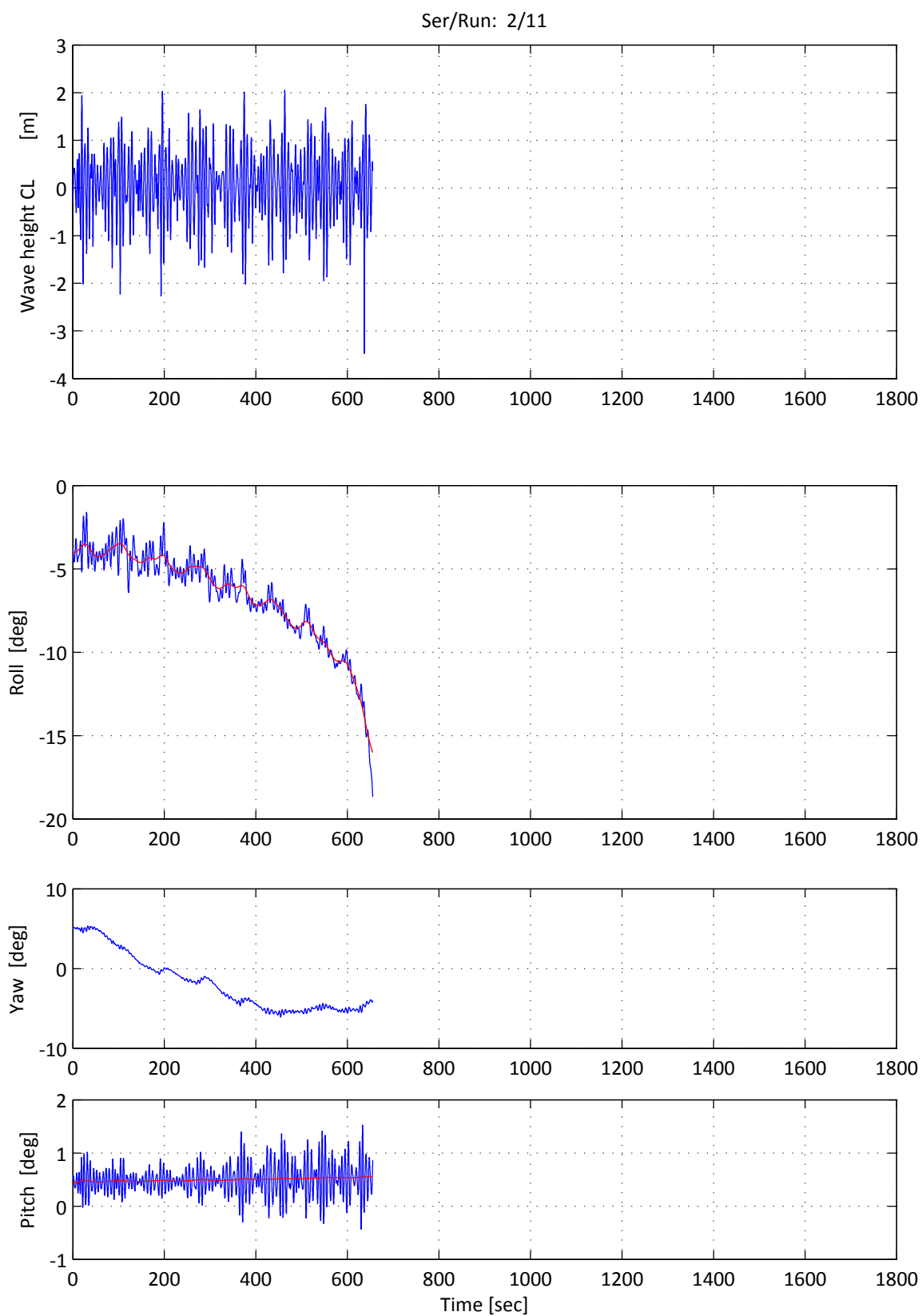
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 65



FLOODSTAND

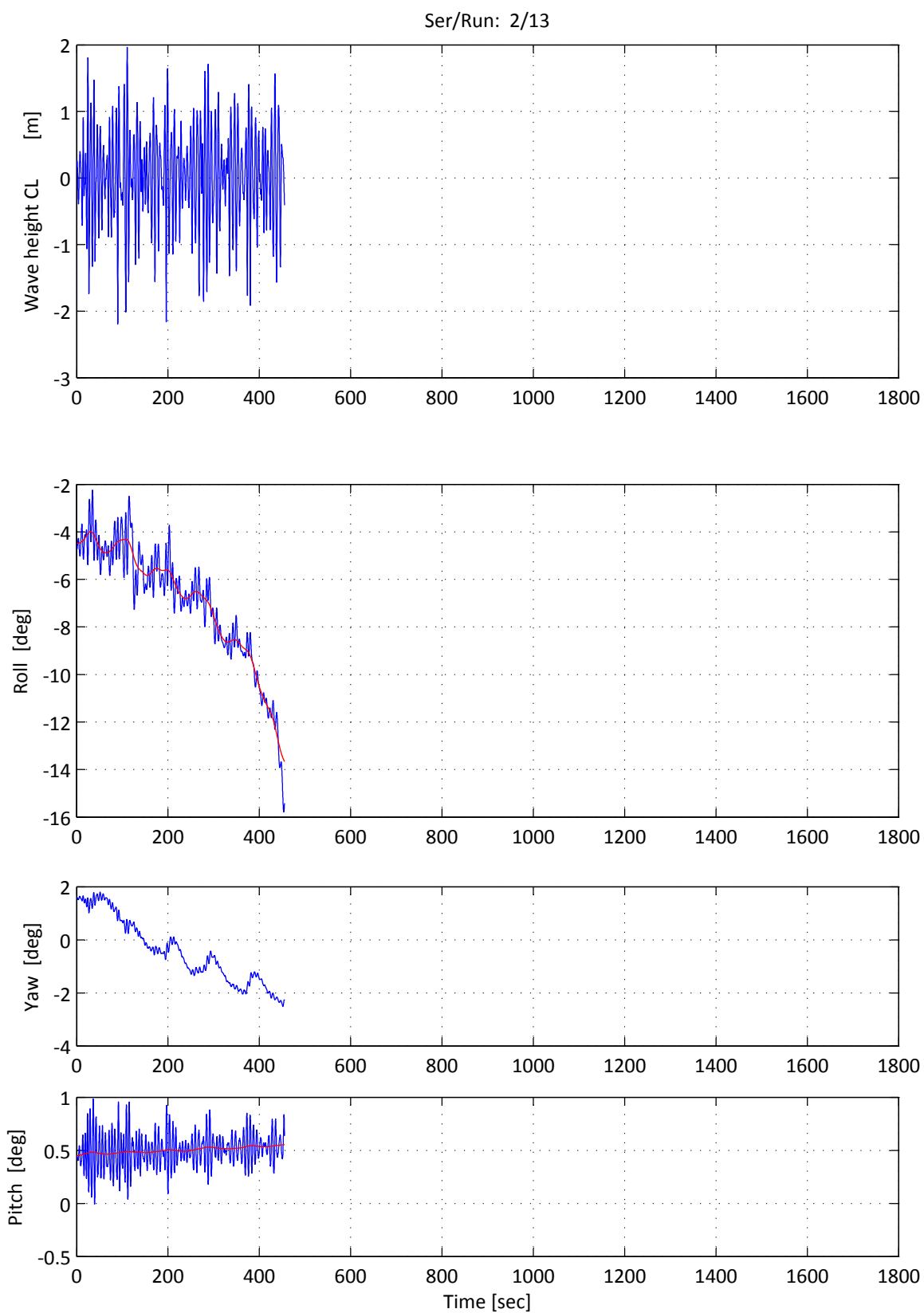
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 66



FLOODSTAND

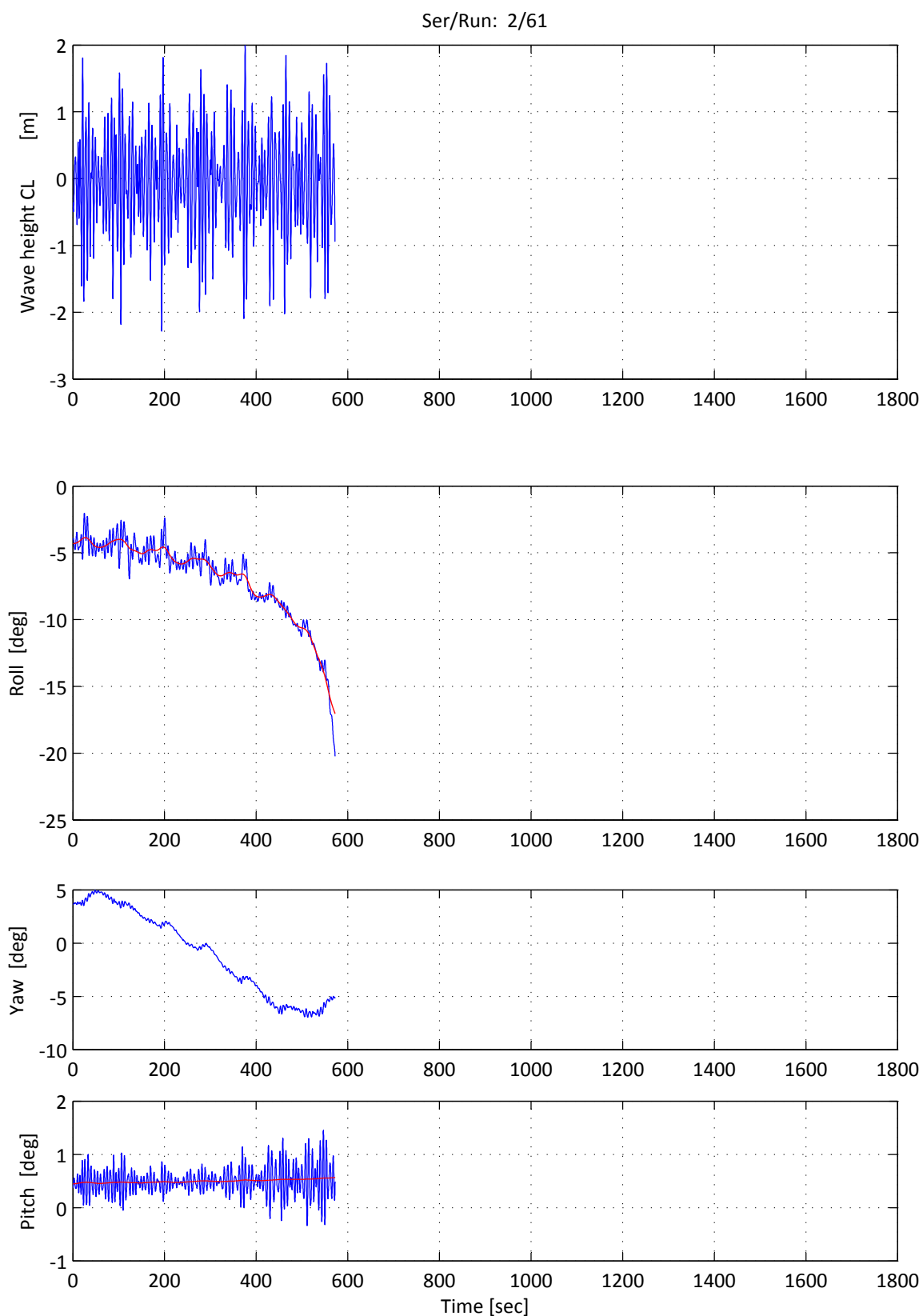
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 67



FLOODSTAND

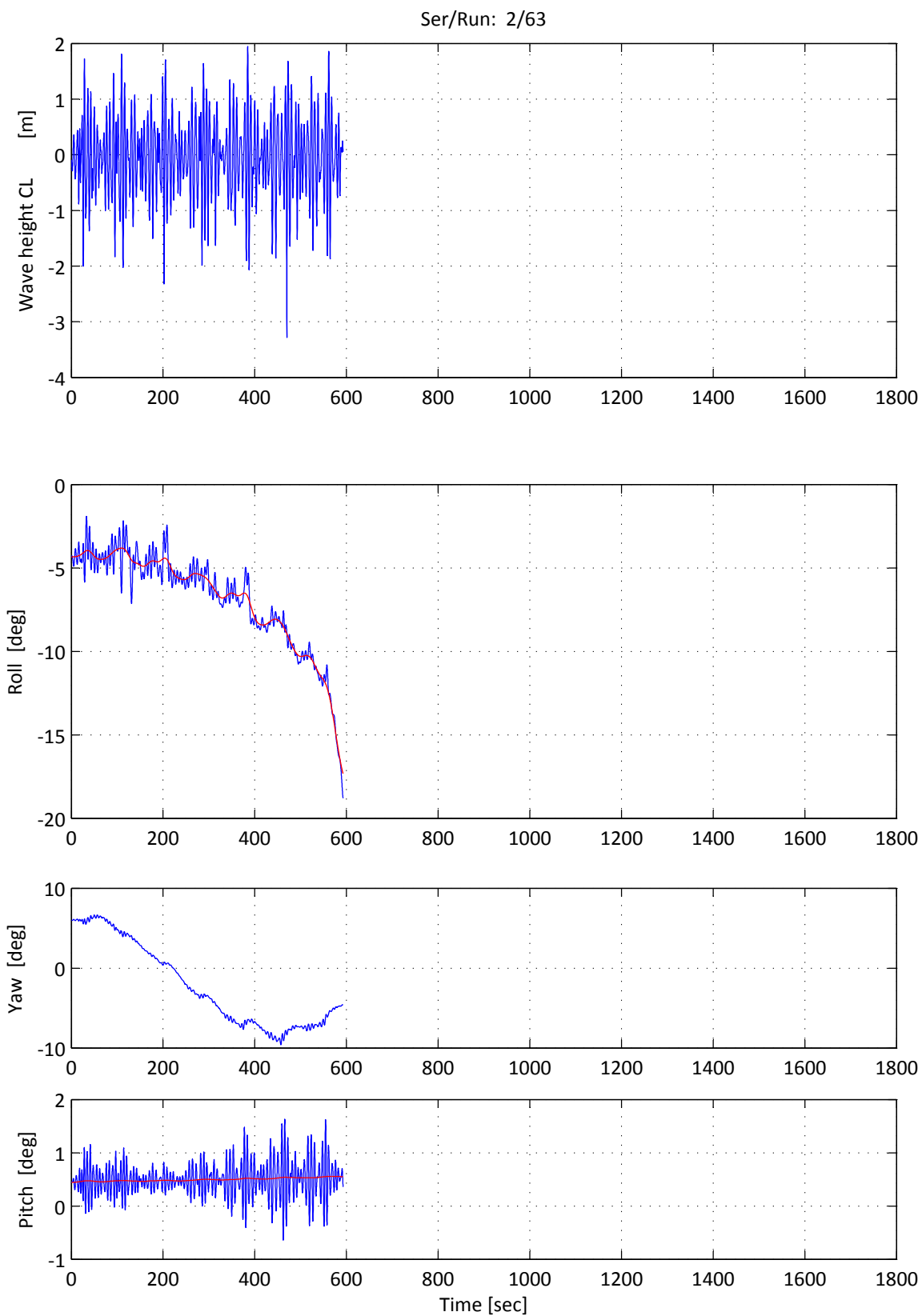
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 68



FLOODSTAND

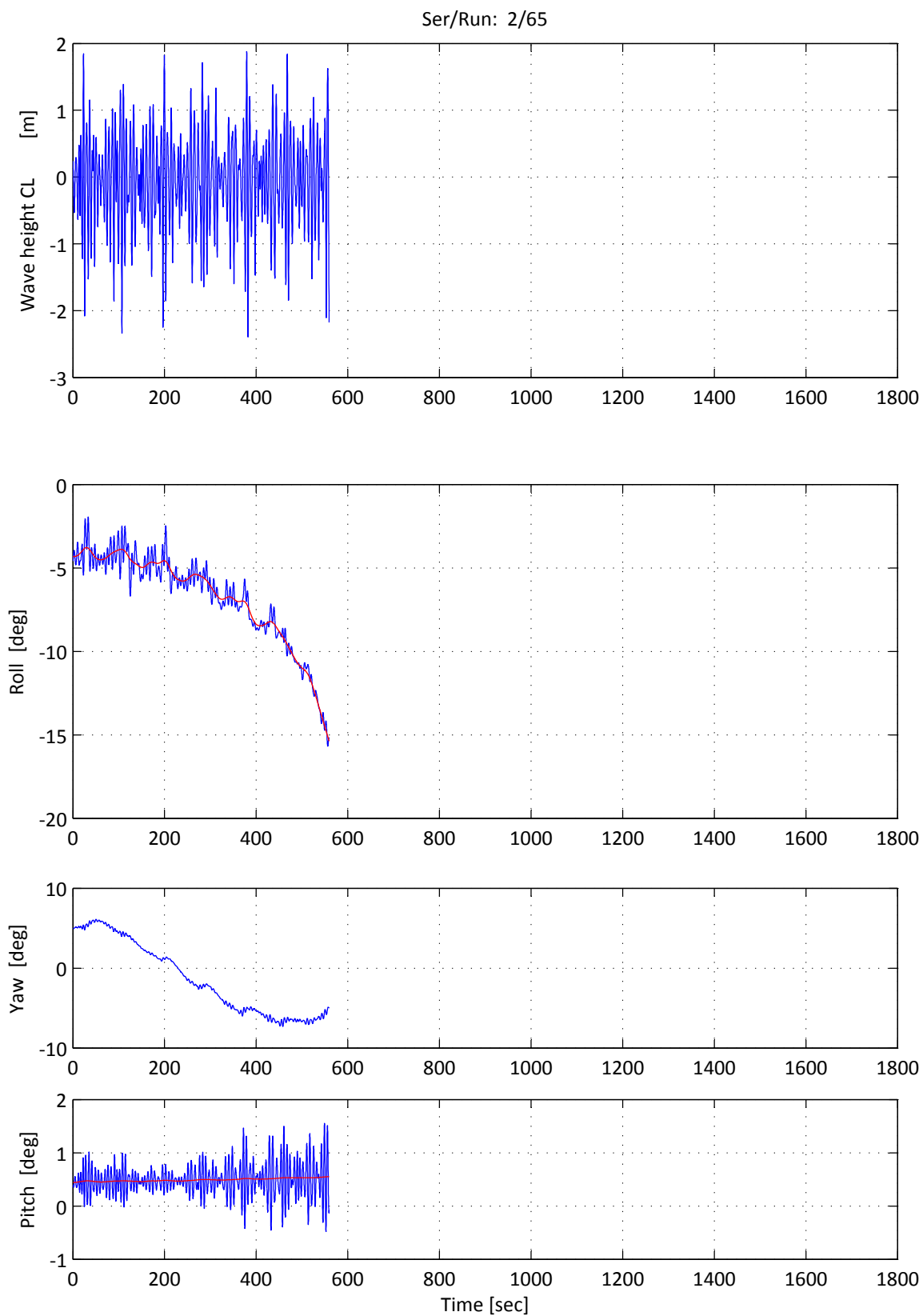
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 69



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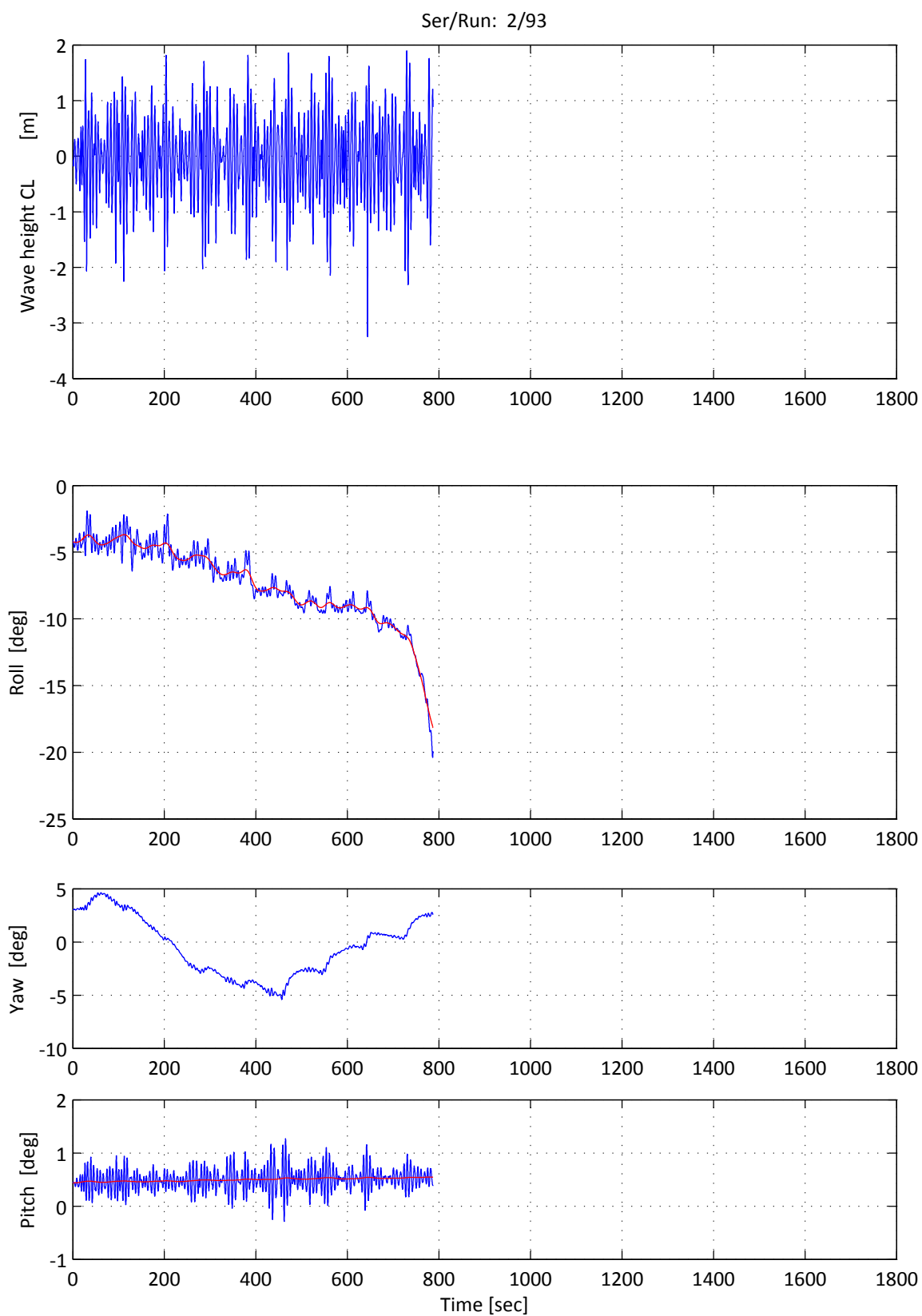
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 70



FLOODSTAND

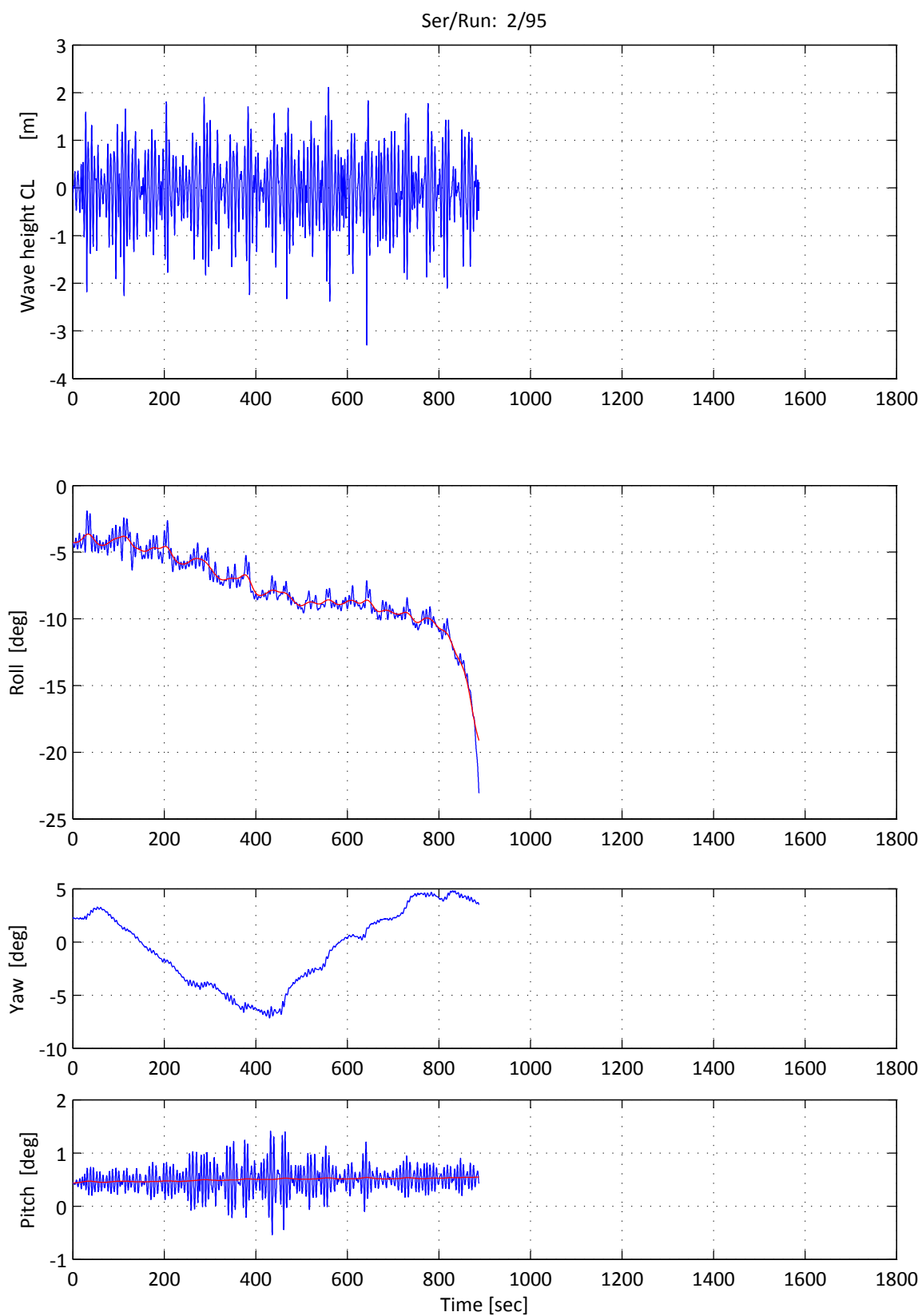
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 71



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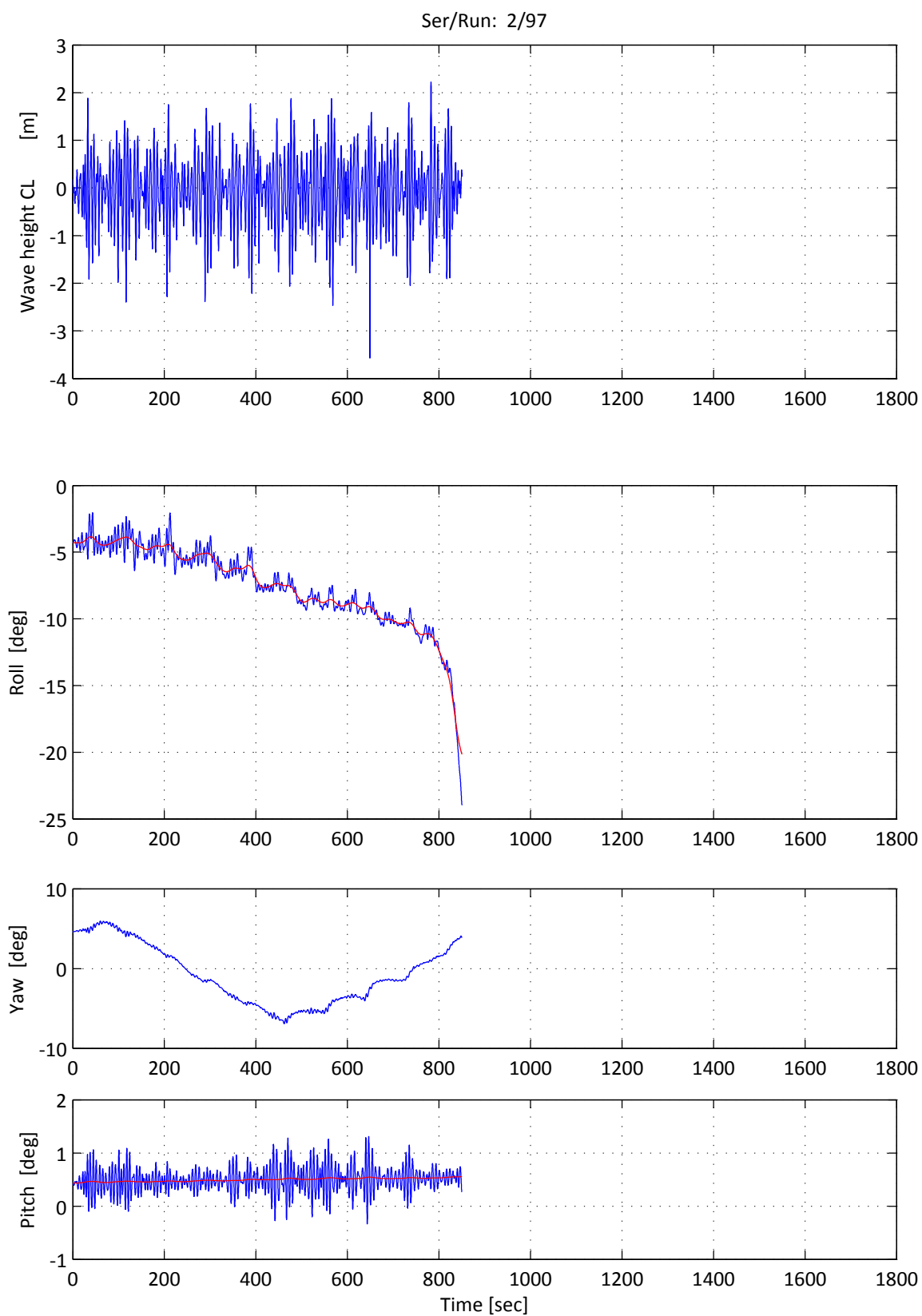
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 72



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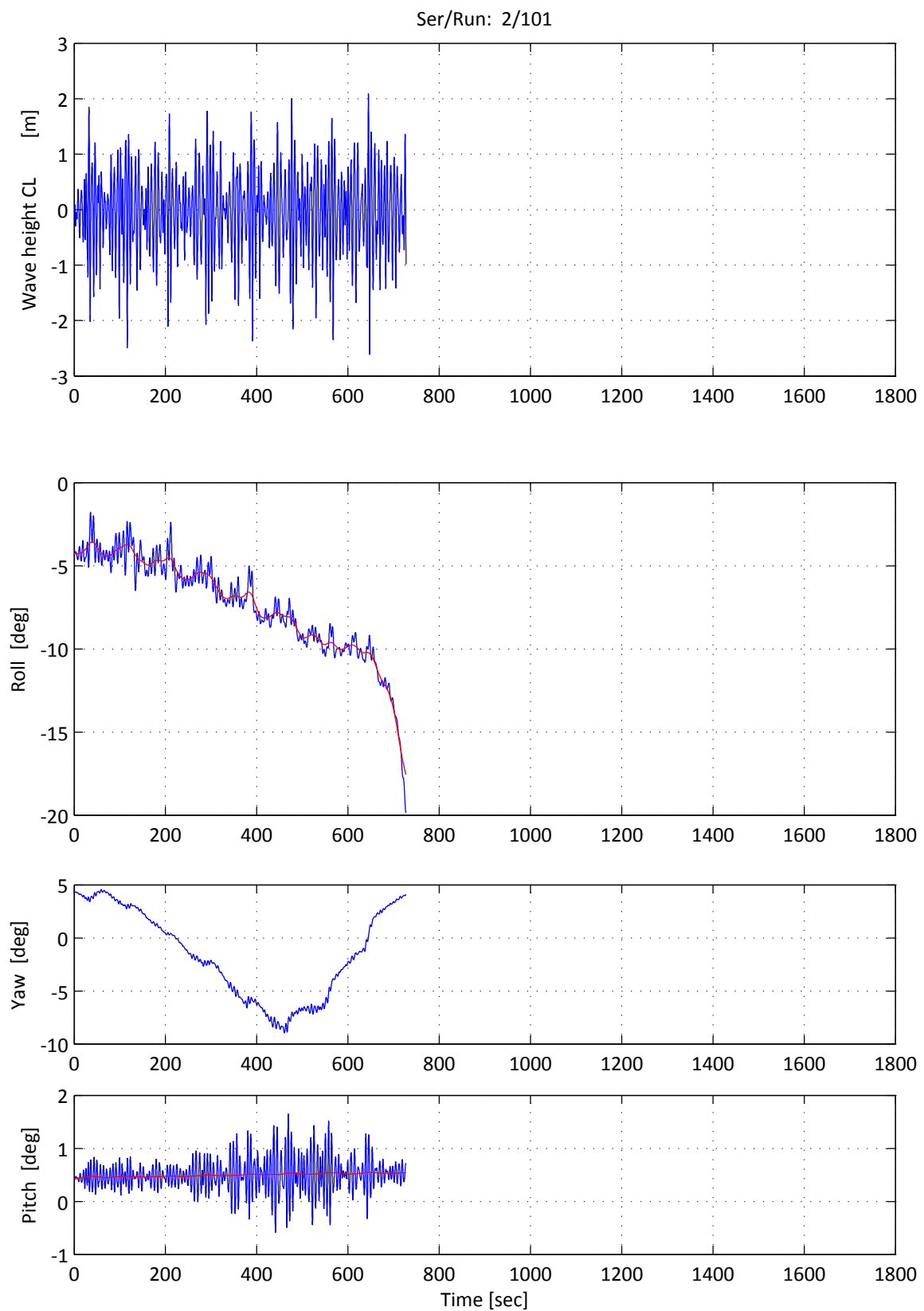
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 73



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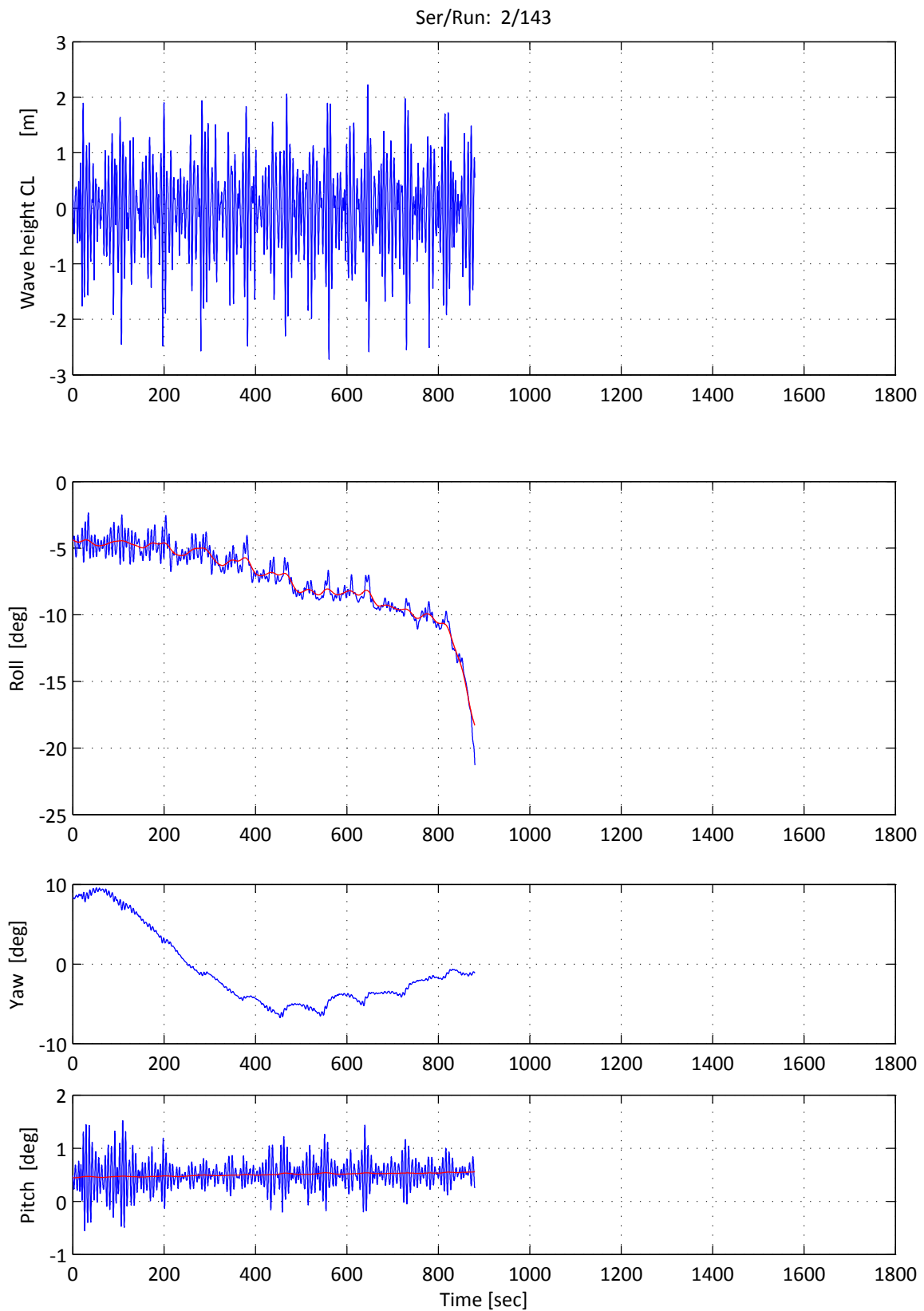
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 74



FLOODSTAND

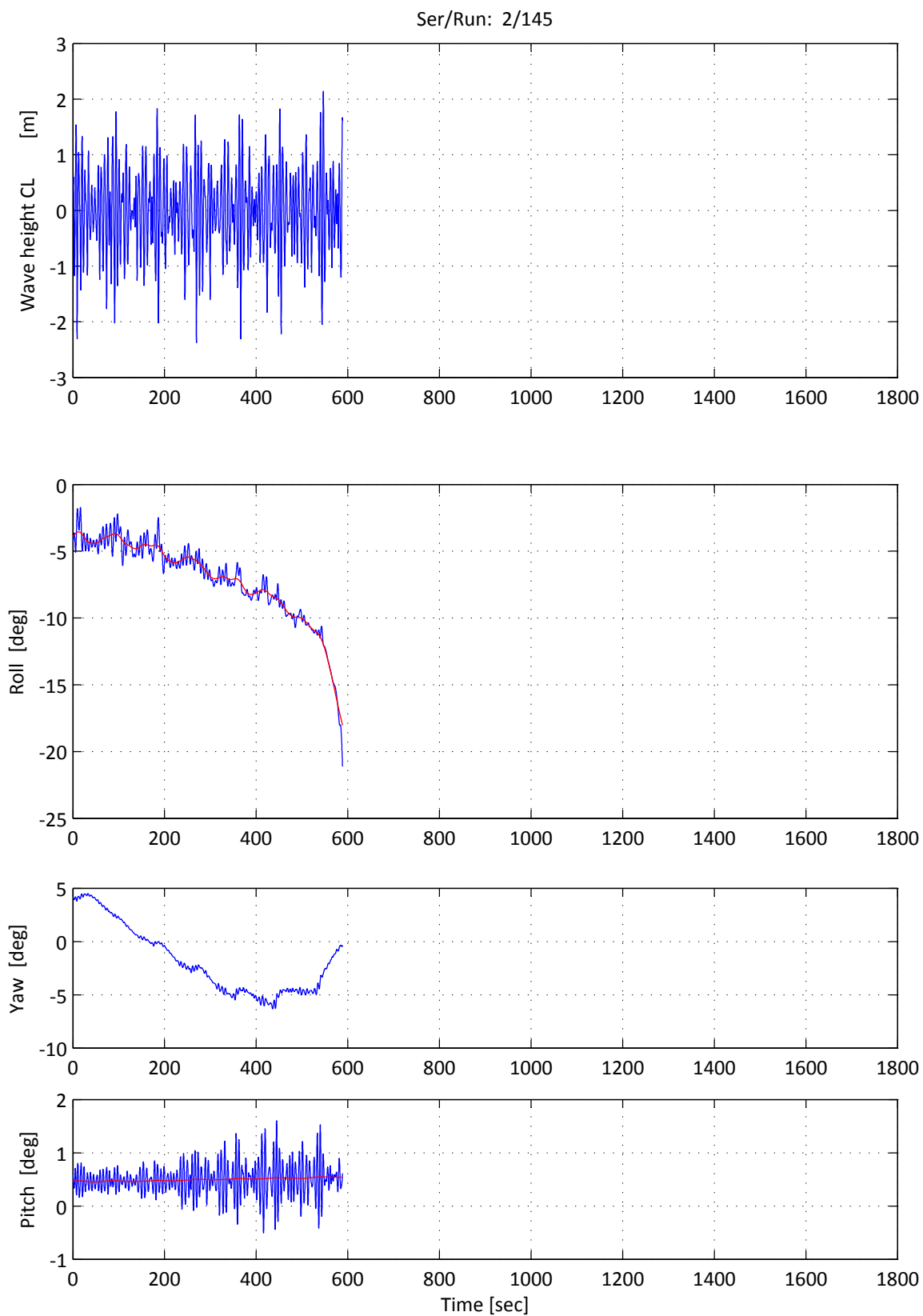
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 75



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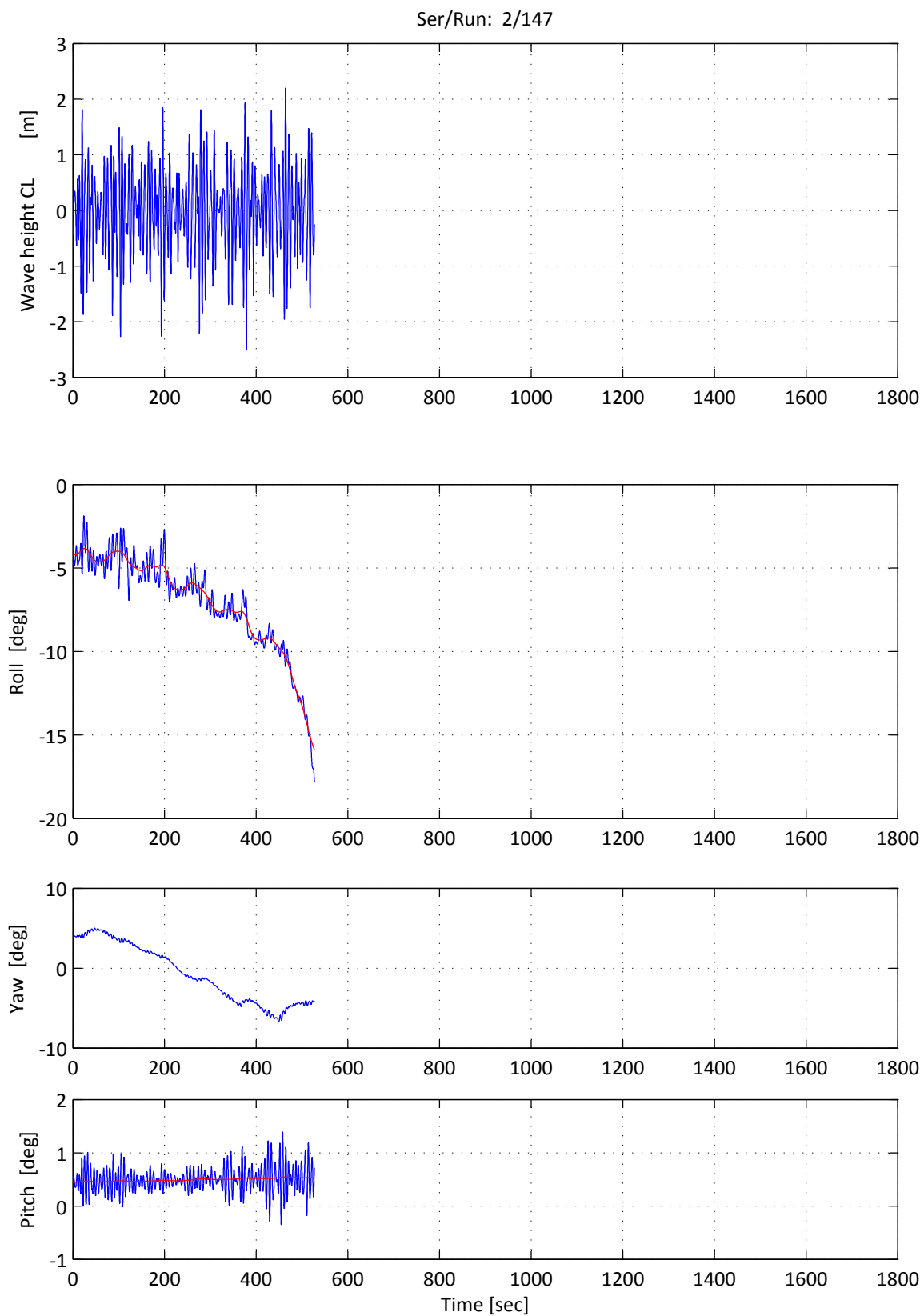
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 76



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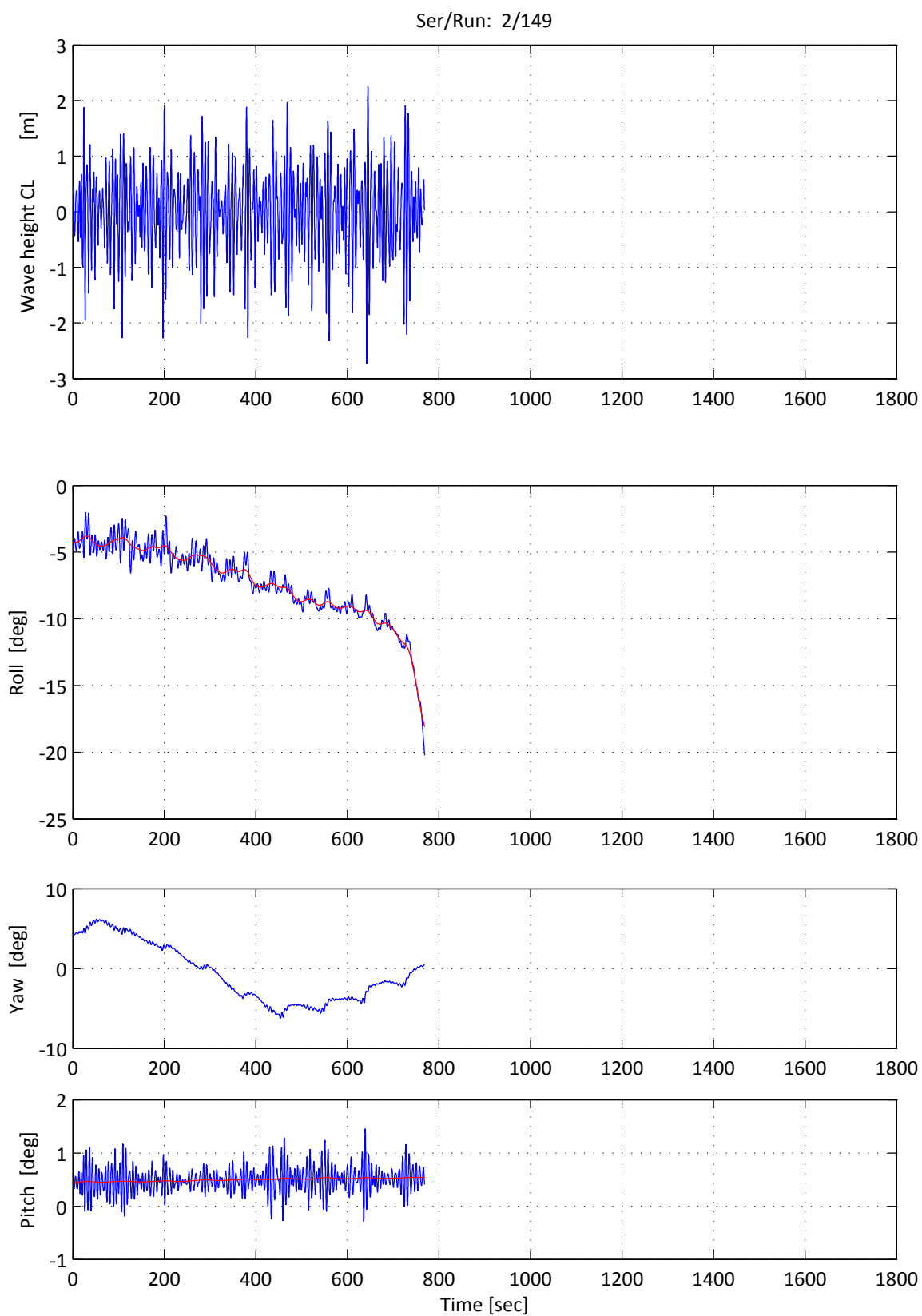
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 77



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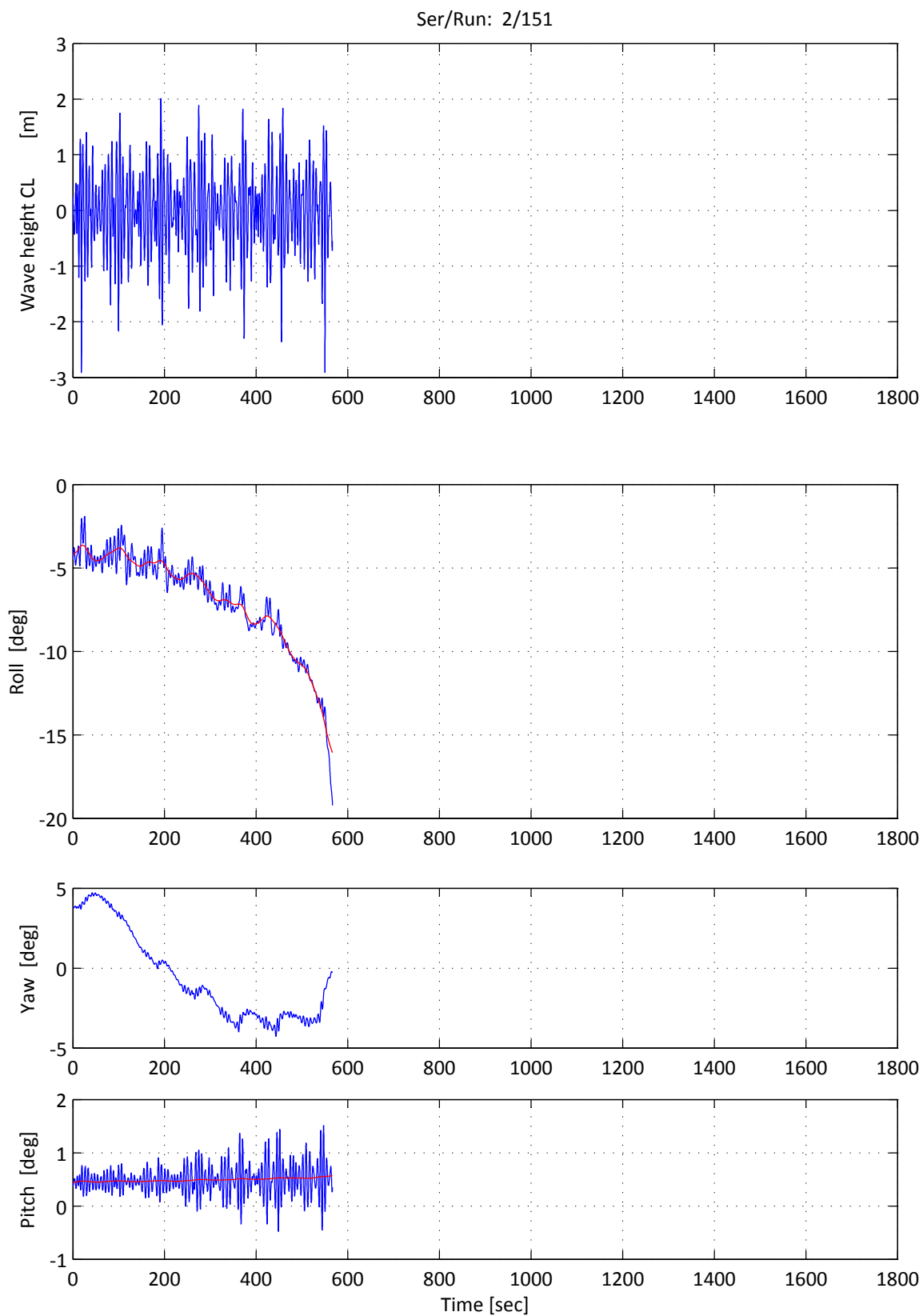
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 78



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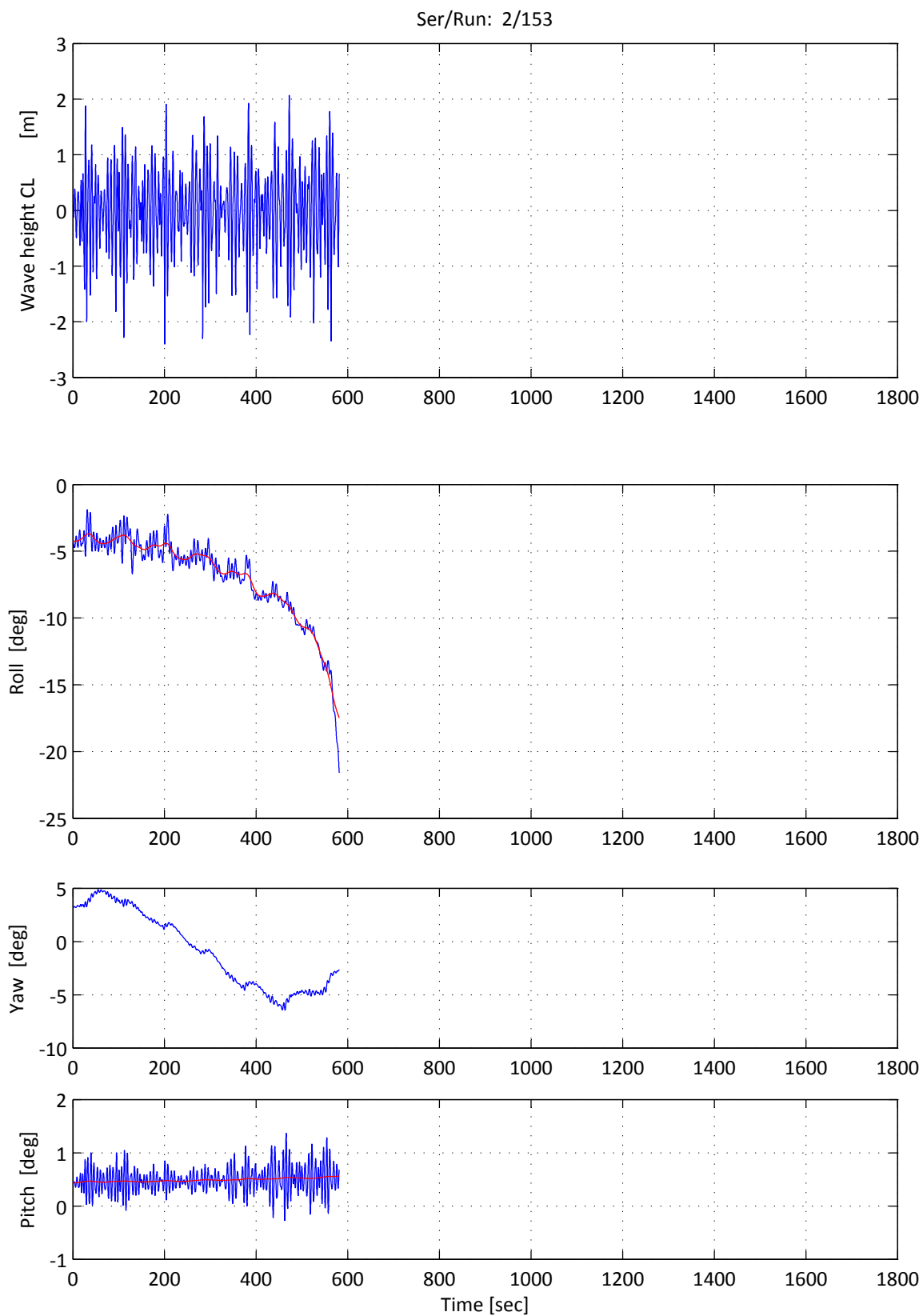
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 79



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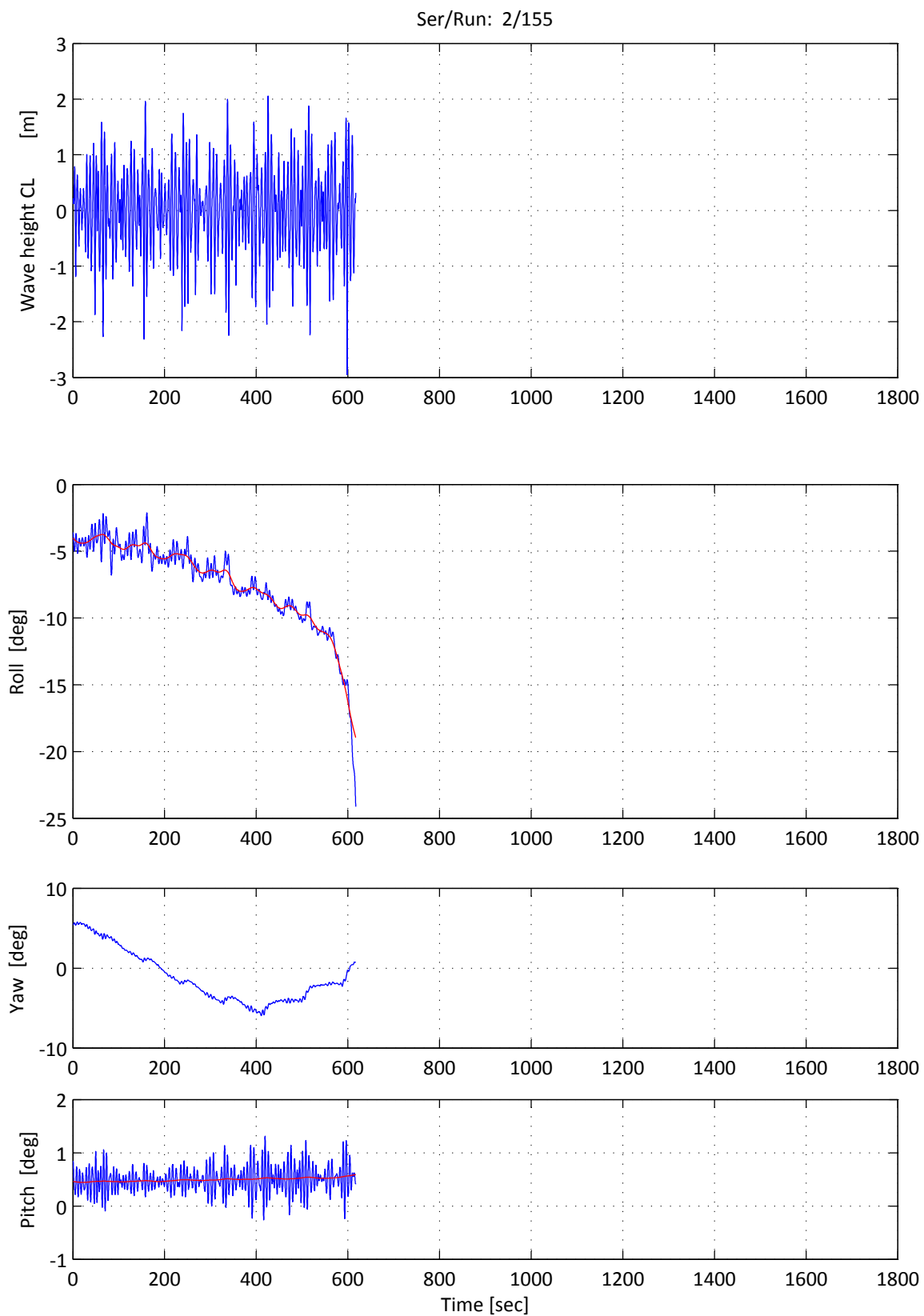
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 80



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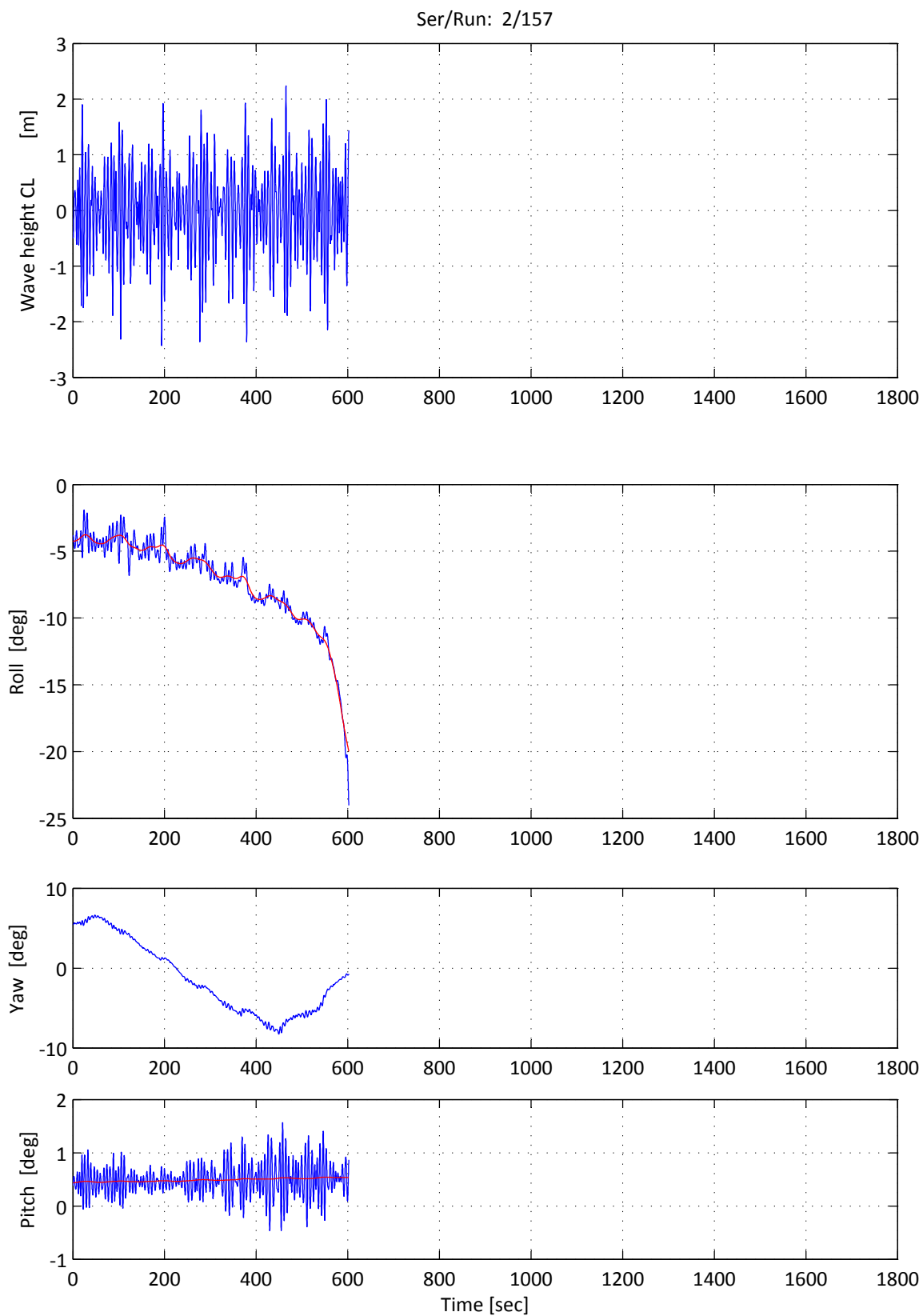
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

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Figure: 81



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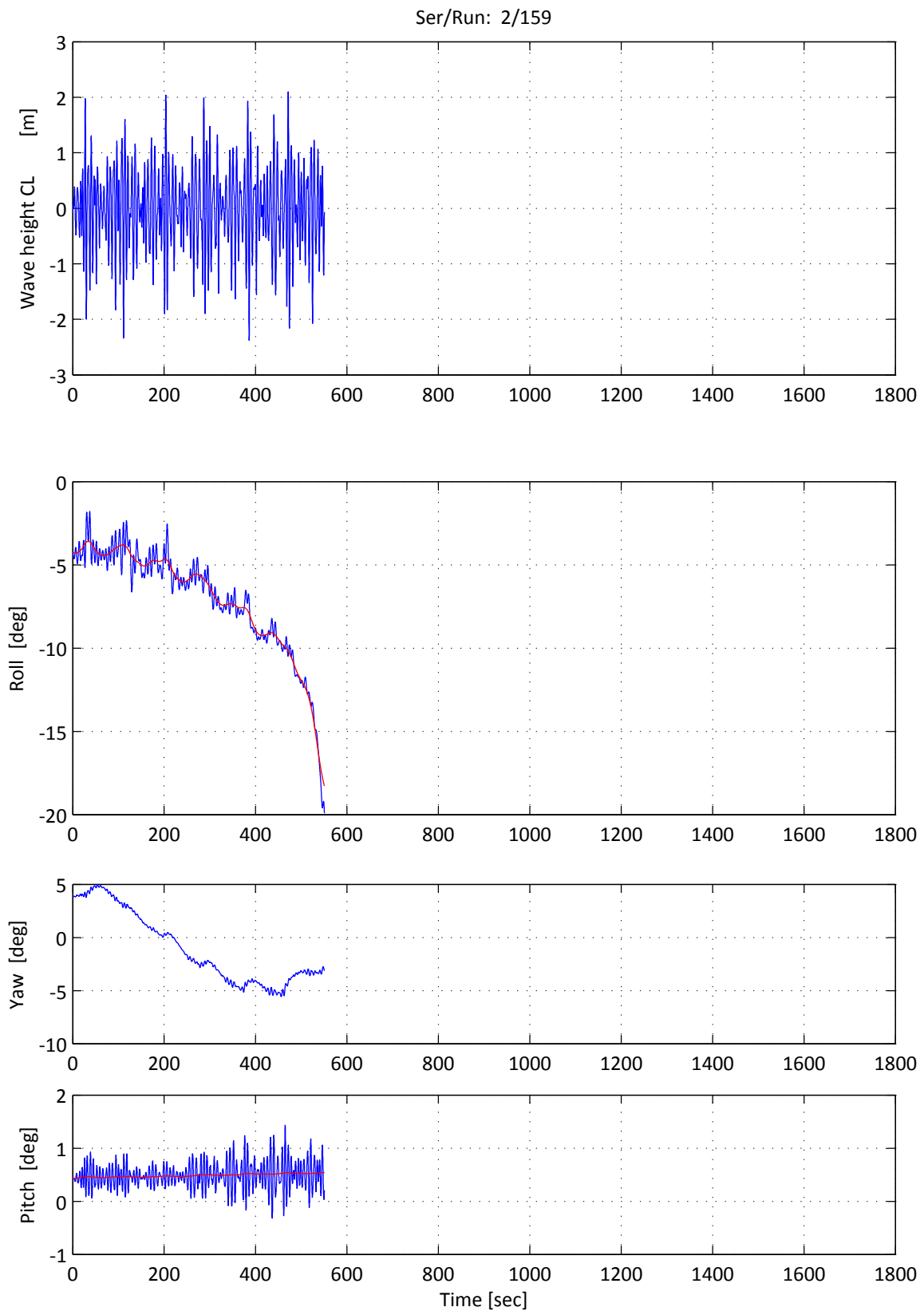
Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 82



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Jonswap spectrum

$H_{1/3} = 3 \text{ m}$ $T_p = 6.93 \text{ sec}$ $\gamma = 3.3$

Water depth: 102.0 m

Appendix: 02

Figure: 83

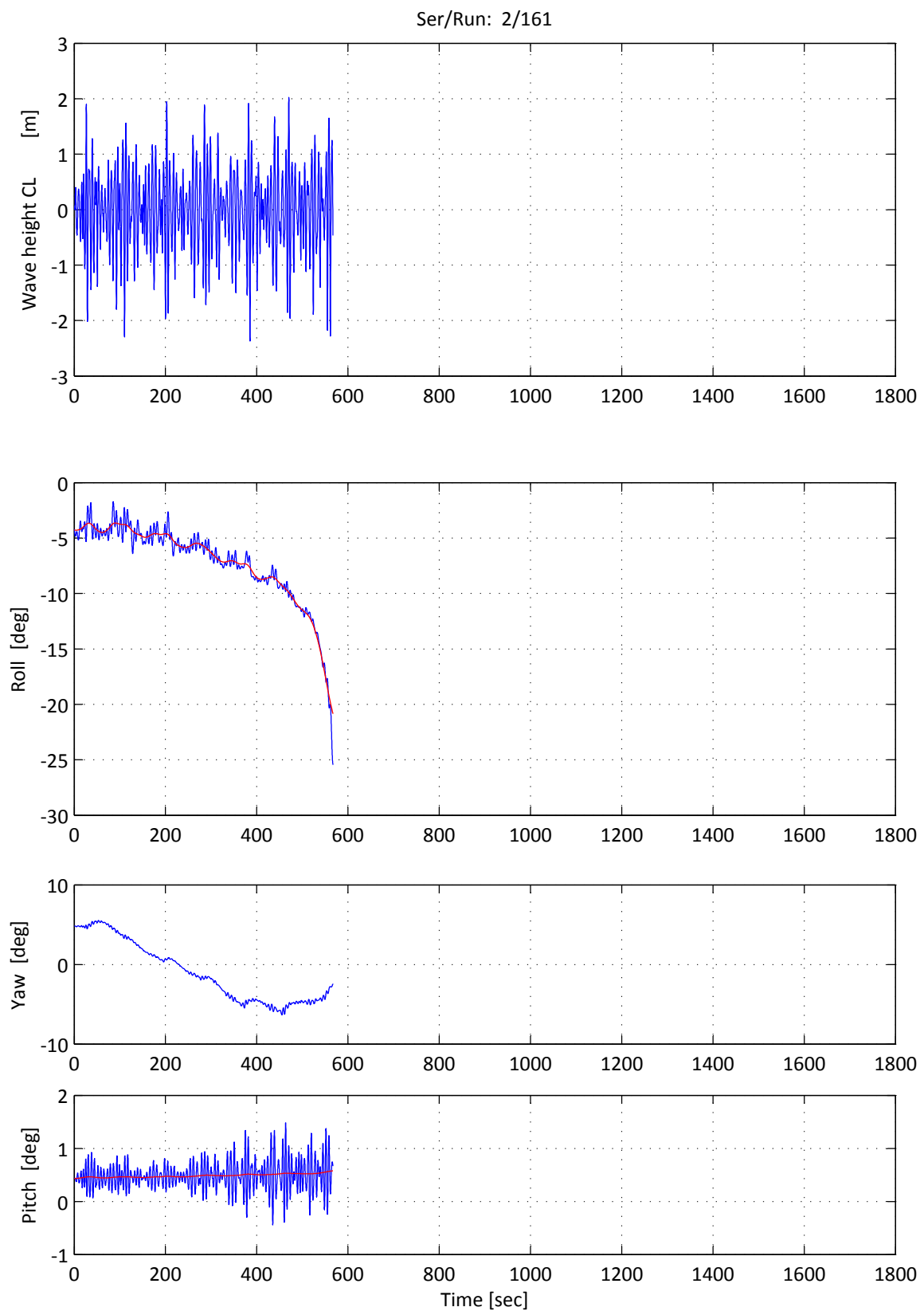


Table of contents

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
1	2.00	5.66	2	5
2	2.00	5.66	2	32
3	2.00	5.66	2	34
4	2.50	6.32	2	36
5	2.50	6.32	2	41
6	2.50	6.32	2	44
7	2.50	6.32	2	46
8	2.50	6.32	2	48
9	2.50	6.32	2	50
10	2.50	6.32	2	52
11	2.50	6.32	2	54
12	2.50	6.32	2	56
13	2.50	6.32	2	59
14	2.50	6.32	2	122
15	2.50	6.32	2	124
16	2.50	6.32	2	126
17	2.50	6.32	2	129
18	2.50	6.32	2	131
19	2.50	6.32	2	133
20	2.50	6.32	2	135
21	2.50	6.32	2	137
22	2.50	6.32	2	139

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
23	2.50	6.32	2	141
24	2.60	6.45	2	163
25	2.60	6.45	2	165
26	2.60	6.45	2	167
27	2.60	6.45	2	169
28	2.60	6.45	2	171
29	2.60	6.45	2	173
30	2.60	6.45	2	175
31	2.60	6.45	2	177
32	2.60	6.45	2	179
33	2.60	6.45	2	181
34	2.60	6.45	2	183
35	2.60	6.45	2	185
36	2.60	6.45	2	187
37	2.60	6.45	2	189
38	2.60	6.45	2	191
39	2.60	6.45	2	193
40	2.60	6.45	2	195
41	2.60	6.45	2	197
42	2.60	6.45	2	199
43	2.60	6.45	2	201
44	2.75	6.63	2	67
45	2.75	6.63	2	70
46	2.75	6.63	2	72

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
47	2.75	6.63	2	74
48	2.75	6.63	2	76
49	2.75	6.63	2	80
50	2.75	6.63	2	82
51	2.75	6.63	2	85
52	2.75	6.63	2	87
53	2.75	6.63	2	89
54	2.75	6.63	2	91
55	2.75	6.63	2	103
56	2.75	6.63	2	106
57	2.75	6.63	2	108
58	2.75	6.63	2	110
59	2.75	6.63	2	112
60	2.75	6.63	2	114
61	2.75	6.63	2	116
62	2.75	6.63	2	118
63	2.75	6.63	2	120
64	3.00	6.93	2	6
65	3.00	6.93	2	11
66	3.00	6.93	2	13
67	3.00	6.93	2	61
68	3.00	6.93	2	63
69	3.00	6.93	2	65
70	3.00	6.93	2	93

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
71	3.00	6.93	2	95
72	3.00	6.63	2	97
73	3.00	6.93	2	101
74	3.00	6.93	2	143
75	3.00	6.93	2	145
76	3.00	6.93	2	147
77	3.00	6.93	2	149
78	3.00	6.93	2	151
79	3.00	6.93	2	153
80	3.00	6.93	2	155
81	3.00	6.93	2	157
82	3.00	6.93	2	159
83	3.00	6.93	2	161

Definitions

Statistical analysis of all measured signals includes min, mean, max and significant values according to:

Minimum value =

$$x_{\min} < x_i \quad (i = 1, 2, 3 \dots N)$$

Mean value =

$$\bar{x} = \frac{1}{N} \sum_{i=1}^N x_i$$

Maximum value =

$$x_{\max} > x_i \quad (i = 1, 2, 3 \dots N)$$

Where: x_i ($i = 1, 2, 3 \dots N$) = measured signal

N = Number of samples (measurement time) \times (sampling frequency)

Significant single amplitude = $2 \cdot \sigma$

Significant double amplitude = $4 \cdot \sigma$

Where:

$$\sigma^2 = \frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2$$

All significant values of measured signals are given as significant single amplitudes except wave height, which is given as significant double amplitude.

Zero crossing period

Suppose the total number of zero up crossings is $nc+1 = t_0, t_1 \dots t_{nc}$ then the zero crossing period, T_z is estimated according to:

$$T_z = (t_{nc} - t_0) / nc$$

Note that: Nominal wave height = Total significant wave height

Nominal wave period = Spectral peak period for Jonswap spectrum


```

Ser no          :      2
Run no          :      5
Scale factor    :    40.000
Measuring time  :    29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :    137.40 m
Wave heading    :    90.00 deg
Water depth     :    102.00 m
Nominal wave height :    2.00 m
Nominal wave period :    5.66 sec

```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-1.95	-0.04	1.83	2.08*	5.70
Wave height Port	[m]	-2.09	-0.02	1.28	1.83	5.82
Wave heading	[deg]	261.70	268.26	274.01	7.53	13.53
Speed	[knots]	0.03	1.26	1.78	0.61	33.46
Surge	[m]	-0.26	0.00	0.33	0.17	10.63
Sway	[m]	-0.56	-0.00	0.59	0.40	6.50
Heave	[m]	-0.16	0.64	1.38	0.55	6.45
Roll	[deg]	-6.97	-4.76	-2.25	1.87	16.66
Pitch	[deg]	-0.31	0.48	1.21	0.40	6.05
Yaw	[deg]	-8.15	-2.40	4.16	7.53	329.26
Roll(filt)	[deg]	-6.21	-4.76	-3.59	1.63	44.32
Pitch(filt)	[deg]	0.45	0.48	0.51	0.03	280.94

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 2

```

Ser no           :      2
Run no          :     32
Scale factor     :   40.000
Measuring time   : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.00 m
Nominal wave period :    5.66 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-1.86	0.02	1.46	2.05*	5.72
Wave height Port	[m]	-1.85	0.00	1.34	1.76	5.83
Wave heading	[deg]	258.11	266.01	271.90	6.37	77.08
Speed	[knots]	0.01	1.22	1.66	0.48	17.31
Surge	[m]	-0.30	0.00	0.32	0.17	10.59
Sway	[m]	-0.53	-0.00	0.61	0.37	6.42
Heave	[m]	-0.09	0.63	1.38	0.51	6.41
Roll	[deg]	-5.89	-4.24	-2.48	1.10	10.03
Pitch	[deg]	-0.23	0.46	1.13	0.49	6.10
Yaw	[deg]	-6.13	-0.24	7.66	6.37	44.69
Roll(filt)	[deg]	-4.93	-4.24	-3.82	0.51	64.90
Pitch(filt)	[deg]	0.44	0.46	0.46	0.01	75.31

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 3

```
Ser no      :      2
Run no      :      34
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.00 m
Nominal wave period :    5.66 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.42	0.01	1.71	2.35*	5.81
Wave height Port	[m]	-2.10	-0.00	1.71	2.18	5.77
Wave heading	[deg]	264.04	270.59	284.32	9.37	14.42
Speed	[knots]	0.00	1.19	1.76	0.49	29.57
Surge	[m]	-0.26	0.00	0.34	0.14	8.33
Sway	[m]	-0.57	0.00	0.60	0.37	6.59
Heave	[m]	-0.10	0.63	1.39	0.49	6.38
Roll	[deg]	-5.54	-4.26	-2.36	0.98	11.15
Pitch	[deg]	-0.25	0.45	1.19	0.38	6.09
Yaw	[deg]	-12.24	1.49	8.04	9.37	390.54
Roll(filt)	[deg]	-4.68	-4.26	-3.77	0.42	79.88
Pitch(filt)	[deg]	0.44	0.45	0.46	0.01	95.30

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 4

```
Ser no      :      2
Run no      :      36
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading  :    90.00 deg
Water depth   :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.59	0.03	1.69	2.65*	6.28
Wave height Port	[m]	-2.40	0.01	1.94	2.58	6.25
Wave heading	[deg]	-87.80	-85.01	-80.34	3.81	188.44
Speed	[knots]	0.06	1.21	2.02	0.39	16.01
Surge	[m]	-0.26	0.00	0.29	0.14	7.61
Sway	[m]	-0.79	0.00	0.81	0.54	6.96
Heave	[m]	-0.38	0.65	1.64	0.75	6.78
Roll	[deg]	-8.32	-6.20	-2.31	2.21	24.49
Pitch	[deg]	-0.47	0.49	1.32	0.40	6.48
Yaw	[deg]	-3.14	1.54	4.32	3.81	170.93
Roll(filt)	[deg]	-7.44	-6.20	-3.77	2.03	56.48
Pitch(filt)	[deg]	0.46	0.49	0.50	0.02	360.12

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 5

```
Ser no          :      2
Run no          :      41
Scale factor     :    40.000
Measuring time   :    22 min 38 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :    137.40 m
Wave heading     :    90.00 deg
Water depth      :    102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.00	-0.04	1.89	2.57*	6.37
Wave height Port	[m]	-2.08	-0.01	1.77	2.53	6.17
Wave heading	[deg]	-88.70	-84.54	-76.12	5.74	102.17
Speed	[knots]	0.02	1.26	2.30	0.45	10.82
Surge	[m]	-0.33	0.00	0.36	0.17	9.27
Sway	[m]	-0.84	0.00	0.97	0.59	6.99
Heave	[m]	-0.45	0.67	1.72	0.78	6.88
Roll	[deg]	-21.55	-6.96	-2.33	5.43	18.65
Pitch	[deg]	-0.55	0.50	1.59	0.59	6.71
Yaw	[deg]	-8.78	-0.36	3.80	5.74	91.30
Roll(filt)	[deg]	-19.38	-6.96	-3.73	5.32	76.53
Pitch(filt)	[deg]	0.45	0.50	0.57	0.05	36.30

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 6

```
Ser no      :      2
Run no      :      44
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading  :    90.00 deg
Water depth   :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.09	-0.03	1.71	2.37*	6.20
Wave height Port	[m]	-2.21	-0.02	1.56	2.27	6.38
Wave heading	[deg]	257.19	271.08	294.63	19.50	3.16
Speed	[knots]	0.41	1.37	1.90	0.40	14.44
Surge	[m]	-0.33	0.00	0.37	0.19	10.01
Sway	[m]	-0.75	0.00	0.94	0.55	7.05
Heave	[m]	-0.46	0.67	1.82	0.79	6.89
Roll	[deg]	-10.14	-6.11	0.55	2.92	15.60
Pitch	[deg]	-0.69	0.50	1.63	0.66	6.69
Yaw	[deg]	-20.36	3.19	17.08	19.50	1282.87
Roll(filt)	[deg]	-8.88	-6.11	-2.61	2.65	55.49
Pitch(filt)	[deg]	0.46	0.50	0.55	0.05	71.12

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 7

```

Ser no           :          2
Run no          :          46
Scale factor     :      40.000
Measuring time   :    29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :    137.40 m
Wave heading     :    90.00 deg
Water depth      :    102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.05	-0.03	1.74	2.51*	6.26
Wave height Port	[m]	-2.45	-0.02	1.64	2.45	6.06
Wave heading	[deg]	268.31	275.70	281.65	5.84	151.33
Speed	[knots]	0.01	1.15	2.21	0.50	16.52
Surge	[m]	-0.34	0.00	0.36	0.17	9.27
Sway	[m]	-0.88	0.00	0.96	0.55	6.98
Heave	[m]	-0.47	0.68	1.72	0.76	6.87
Roll	[deg]	-9.67	-6.59	-2.32	3.16	38.04
Pitch	[deg]	-0.28	0.49	1.34	0.45	6.47
Yaw	[deg]	-6.54	-0.59	6.81	5.84	151.92
Roll(filt)	[deg]	-8.83	-6.60	-3.85	3.01	36.05
Pitch(filt)	[deg]	0.45	0.49	0.53	0.04	195.32

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 8

```

Ser no          :          2
Run no          :          48
Scale factor    :      40.000
Measuring time  :    29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :    137.40 m
Wave heading    :    90.00 deg
Water depth     :    102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.37	-0.04	1.79	2.54*	6.33
Wave height Port	[m]	-2.83	-0.05	1.78	2.49	6.18
Wave heading	[deg]	270.27	273.79	277.51	2.82	101.58
Speed	[knots]	0.03	1.20	2.24	0.51	14.68
Surge	[m]	-0.33	0.00	0.37	0.16	9.15
Sway	[m]	-0.89	0.00	1.04	0.59	6.83
Heave	[m]	-0.54	0.65	1.71	0.80	6.81
Roll	[deg]	-9.37	-6.58	-2.50	2.88	30.60
Pitch	[deg]	-0.11	0.50	1.09	0.31	6.60
Yaw	[deg]	-1.99	1.74	5.25	2.82	114.45
Roll(filt)	[deg]	-8.64	-6.58	-3.89	2.72	0.00
Pitch(filt)	[deg]	0.45	0.49	0.52	0.04	360.58

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 9

```
Ser no          :      2
Run no          :      50
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.93	-0.04	1.71	2.59*	6.26
Wave height Port	[m]	-2.43	-0.04	1.69	2.47	6.20
Wave heading	[deg]	268.73	274.25	277.18	4.31	586.29
Speed	[knots]	0.00	1.19	2.20	0.49	13.86
Surge	[m]	-0.36	0.00	0.41	0.17	8.63
Sway	[m]	-0.87	0.00	1.09	0.56	7.02
Heave	[m]	-0.55	0.66	1.81	0.76	6.83
Roll	[deg]	-8.38	-6.16	-2.61	2.28	18.08
Pitch	[deg]	-0.03	0.49	1.10	0.35	6.59
Yaw	[deg]	-3.30	-0.36	5.16	4.31	6.89
Roll(filt)	[deg]	-7.90	-6.16	-3.83	2.10	299.24
Pitch(filt)	[deg]	0.45	0.49	0.51	0.03	213.14

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 10

```

Ser no           :      2
Run no          :      52
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.53	-0.04	1.87	2.56*	6.32
Wave height Port	[m]	-2.18	-0.04	1.81	2.46	6.19
Wave heading	[deg]	264.60	273.72	283.87	8.36	37.34
Speed	[knots]	0.00	1.20	2.18	0.55	21.13
Surge	[m]	-0.37	0.00	0.42	0.17	8.45
Sway	[m]	-0.90	0.00	1.03	0.56	6.91
Heave	[m]	-0.56	0.65	1.71	0.79	6.83
Roll	[deg]	-8.07	-6.13	-2.48	2.29	38.42
Pitch	[deg]	-0.22	0.49	1.25	0.41	6.60
Yaw	[deg]	-9.83	0.32	9.44	8.36	56.06
Roll(filt)	[deg]	-7.30	-6.13	-4.11	2.08	36.30
Pitch(filt)	[deg]	0.45	0.49	0.51	0.03	220.43

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 11

```

Ser no           :      2
Run no          :      54
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.18	-0.02	1.85	2.42*	6.08
Wave height Port	[m]	-2.14	-0.03	1.63	2.35	6.03
Wave heading	[deg]	266.11	272.39	276.55	5.63	144.31
Speed	[knots]	0.00	1.24	2.11	0.52	20.40
Surge	[m]	-0.38	0.00	0.44	0.18	8.86
Sway	[m]	-0.86	-0.00	1.03	0.56	7.01
Heave	[m]	-0.52	0.66	1.78	0.79	6.85
Roll	[deg]	-8.11	-6.20	-2.44	2.42	31.54
Pitch	[deg]	-0.07	0.49	1.08	0.32	6.52
Yaw	[deg]	-4.39	-0.23	6.05	5.63	127.52
Roll(filt)	[deg]	-7.50	-6.20	-3.95	2.21	38.20
Pitch(filt)	[deg]	0.45	0.49	0.51	0.03	214.38

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 12

```
Ser no          :      2
Run no          :      56
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.45	-0.03	1.74	2.53*	6.24
Wave height Port	[m]	-2.40	-0.04	1.69	2.39	6.03
Wave heading	[deg]	266.56	272.41	276.33	4.72	78.22
Speed	[knots]	0.01	1.24	2.14	0.48	16.51
Surge	[m]	-0.38	0.00	0.43	0.18	9.06
Sway	[m]	-0.83	0.00	1.09	0.57	6.99
Heave	[m]	-0.58	0.66	1.86	0.79	6.83
Roll	[deg]	-8.28	-5.97	-2.15	2.25	20.40
Pitch	[deg]	0.00	0.49	1.00	0.31	6.70
Yaw	[deg]	-4.59	-0.68	5.17	4.72	66.11
Roll(filt)	[deg]	-7.64	-5.97	-3.89	2.02	303.39
Pitch(filt)	[deg]	0.45	0.49	0.52	0.03	179.26

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 13

```
Ser no      :      2
Run no      :      59
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.61	-0.02	1.79	2.50*	6.20
Wave height Port	[m]	-2.40	-0.03	1.73	2.30	6.25
Wave heading	[deg]	251.97	266.08	273.30	12.08	0.00
Speed	[knots]	0.02	1.27	2.14	0.41	14.97
Surge	[m]	-0.42	0.00	0.45	0.20	10.55
Sway	[m]	-0.89	-0.00	0.99	0.52	7.14
Heave	[m]	-0.49	0.67	1.73	0.74	7.02
Roll	[deg]	-7.66	-5.67	-2.25	1.95	16.08
Pitch	[deg]	-0.28	0.48	1.27	0.46	6.78
Yaw	[deg]	-7.91	-0.69	13.42	12.08	0.00
Roll(filt)	[deg]	-6.72	-5.67	-3.88	1.59	601.21
Pitch(filt)	[deg]	0.45	0.48	0.51	0.02	143.55

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 14

```

Ser no           :      2
Run no          :     122
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.74	-0.02	1.72	2.49*	6.30
Wave height Port	[m]	-2.20	-0.02	1.65	2.44	6.12
Wave heading	[deg]	268.24	273.67	278.55	5.65	78.68
Speed	[knots]	0.78	1.20	2.25	0.37	18.32
Surge	[m]	-0.37	-0.00	0.43	0.16	8.64
Sway	[m]	-0.81	0.00	0.98	0.53	7.01
Heave	[m]	-0.43	0.69	1.70	0.73	6.77
Roll	[deg]	-8.07	-6.27	-2.59	1.93	19.06
Pitch	[deg]	-0.35	0.48	1.27	0.39	6.48
Yaw	[deg]	-5.10	-0.22	5.21	5.65	113.95
Roll(filt)	[deg]	-7.52	-6.27	-4.10	1.72	34.03
Pitch(filt)	[deg]	0.45	0.48	0.50	0.02	371.50

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 15

```
Ser no          :      2
Run no          :     124
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-1.95	0.06	1.88	2.36*	6.16
Wave height Port	[m]	-2.11	0.03	1.85	2.25	6.30
Wave heading	[deg]	255.43	268.00	276.71	11.37	4.17
Speed	[knots]	0.01	1.35	2.15	0.54	15.19
Surge	[m]	-0.41	0.00	0.44	0.20	9.66
Sway	[m]	-0.89	-0.00	0.98	0.54	7.04
Heave	[m]	-0.50	0.69	1.75	0.79	6.96
Roll	[deg]	-9.03	-6.25	-2.36	2.76	30.52
Pitch	[deg]	-0.53	0.50	1.62	0.57	6.58
Yaw	[deg]	-8.23	0.48	13.05	11.37	1037.10
Roll(filt)	[deg]	-8.20	-6.25	-4.00	2.53	78.74
Pitch(filt)	[deg]	0.45	0.50	0.55	0.04	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

```

Ser no           :      2
Run no          :     126
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec

```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.07	0.07	1.80	2.44*	6.10
Wave height Port	[m]	-2.04	0.03	1.62	2.24	6.29
Wave heading	[deg]	249.80	265.66	275.47	15.17	5.19
Speed	[knots]	0.09	1.37	2.20	0.48	19.35
Surge	[m]	-0.43	0.00	0.51	0.19	10.07
Sway	[m]	-0.82	-0.00	1.04	0.49	7.34
Heave	[m]	-0.52	0.69	1.84	0.73	7.06
Roll	[deg]	-8.78	-5.98	-2.18	2.11	12.99
Pitch	[deg]	-0.50	0.50	1.56	0.60	6.79
Yaw	[deg]	-7.40	2.41	18.27	15.17	5.57
Roll(filt)	[deg]	-7.38	-5.98	-3.71	1.80	232.31
Pitch(filt)	[deg]	0.46	0.50	0.53	0.03	148.57

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 17

```
Ser no      :      2
Run no      :     129
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-1.98	0.01	1.77	2.34*	6.01
Wave height Port	[m]	-2.09	-0.01	1.85	2.28	6.23
Wave heading	[deg]	252.05	267.45	277.77	12.65	504.02
Speed	[knots]	0.00	1.34	2.12	0.62	15.60
Surge	[m]	-0.37	0.00	0.44	0.20	9.63
Sway	[m]	-0.86	-0.00	0.96	0.52	7.27
Heave	[m]	-0.49	0.68	1.74	0.77	6.90
Roll	[deg]	-8.95	-6.12	-2.75	2.39	23.90
Pitch	[deg]	-0.50	0.48	1.50	0.61	6.62
Yaw	[deg]	-8.74	1.58	16.98	12.65	379.76
Roll(filt)	[deg]	-7.81	-6.12	-4.23	2.10	201.70
Pitch(filt)	[deg]	0.43	0.48	0.53	0.04	42.50

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 18

```
Ser no          :      2
Run no          :     131
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.35	0.01	1.87	2.32*	6.08
Wave height Port	[m]	-2.20	-0.01	1.74	2.28	6.22
Wave heading	[deg]	254.07	267.26	276.68	11.29	78.18
Speed	[knots]	0.01	1.35	2.02	0.58	16.10
Surge	[m]	-0.36	0.00	0.44	0.20	10.62
Sway	[m]	-0.83	-0.00	0.95	0.53	7.09
Heave	[m]	-0.46	0.68	1.74	0.78	6.90
Roll	[deg]	-8.71	-5.96	-2.39	2.37	25.31
Pitch	[deg]	-0.49	0.48	1.48	0.62	6.64
Yaw	[deg]	-7.78	1.65	14.83	11.29	104.74
Roll(filt)	[deg]	-7.48	-5.97	-4.08	2.07	69.19
Pitch(filt)	[deg]	0.43	0.48	0.53	0.04	41.62

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 19

```
Ser no      :      2
Run no      :     133
Scale factor :    40.000
Measuring time : 13 min 48 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 2.50 m
Nominal wave period : 6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.54	-0.00	1.85	2.62*	6.06
Wave height Port	[m]	-2.24	-0.01	1.60	2.48	6.19
Wave heading	[deg]	266.41	274.74	277.56	5.51	0.00
Speed	[knots]	0.03	1.32	2.26	0.55	12.98
Surge	[m]	-0.40	0.00	0.46	0.22	8.87
Sway	[m]	-0.85	-0.00	1.03	0.65	6.95
Heave	[m]	-0.47	0.69	1.83	0.90	6.83
Roll	[deg]	-20.30	-7.30	-2.48	5.73	12.59
Pitch	[deg]	-0.16	0.50	1.14	0.42	6.54
Yaw	[deg]	-4.21	-1.39	6.94	5.51	3.16
Roll(filt)	[deg]	-17.89	-7.30	-3.97	5.59	0.00
Pitch(filt)	[deg]	0.44	0.50	0.54	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 20

```

Ser no           :      2
Run no          :     135
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.22	-0.00	1.77	2.37*	6.21
Wave height Port	[m]	-2.10	-0.01	1.79	2.30	6.29
Wave heading	[deg]	257.85	268.76	277.38	10.58	500.40
Speed	[knots]	0.01	1.37	2.06	0.47	14.63
Surge	[m]	-0.36	0.00	0.38	0.22	10.51
Sway	[m]	-0.88	-0.00	1.00	0.57	7.11
Heave	[m]	-0.51	0.67	1.88	0.83	6.91
Roll	[deg]	-9.63	-6.07	-2.14	2.90	31.91
Pitch	[deg]	-0.54	0.49	1.58	0.60	6.67
Yaw	[deg]	-7.37	1.25	12.16	10.58	376.25
Roll(filt)	[deg]	-8.65	-6.08	-3.72	2.66	35.04
Pitch(filt)	[deg]	0.45	0.49	0.55	0.05	123.92

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 21

```

Ser no           :      2
Run no          :     137
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.23	0.02	1.86	2.38*	5.99
Wave height Port	[m]	-2.37	0.01	1.69	2.34	6.22
Wave heading	[deg]	250.72	267.81	276.86	15.29	0.00
Speed	[knots]	0.05	1.35	2.28	0.47	16.66
Surge	[m]	-0.43	0.00	0.50	0.19	9.78
Sway	[m]	-0.87	-0.00	1.02	0.54	7.19
Heave	[m]	-0.52	0.69	1.87	0.78	6.96
Roll	[deg]	-8.78	-6.42	-2.19	2.64	20.20
Pitch	[deg]	-0.61	0.49	1.68	0.57	6.73
Yaw	[deg]	-6.07	2.97	20.07	15.29	0.00
Roll(filt)	[deg]	-8.15	-6.42	-3.75	2.42	637.14
Pitch(filt)	[deg]	0.44	0.49	0.52	0.04	174.28

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 22

```
Ser no          :      2
Run no          :     139
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.45	0.01	1.68	2.32*	6.13
Wave height Port	[m]	-2.20	-0.00	1.70	2.24	6.20
Wave heading	[deg]	255.38	268.62	284.79	13.32	305.37
Speed	[knots]	0.08	1.37	2.15	0.42	14.45
Surge	[m]	-0.41	0.00	0.47	0.20	9.79
Sway	[m]	-0.87	-0.00	1.04	0.55	7.08
Heave	[m]	-0.52	0.68	1.82	0.80	6.97
Roll	[deg]	-9.03	-6.42	-2.43	2.57	15.20
Pitch	[deg]	-0.54	0.49	1.51	0.58	6.70
Yaw	[deg]	-14.71	1.46	14.70	13.32	255.55
Roll(filt)	[deg]	-8.65	-6.42	-3.95	2.34	497.30
Pitch(filt)	[deg]	0.45	0.49	0.55	0.04	114.36

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 23

```
Ser no          :      2
Run no          :     141
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.50 m
Nominal wave period :    6.32 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.03	0.01	1.73	2.44*	6.13
Wave height Port	[m]	-2.39	-0.00	1.68	2.30	6.11
Wave heading	[deg]	244.87	266.04	275.39	19.61	0.00
Speed	[knots]	0.10	1.25	2.07	0.43	15.03
Surge	[m]	-0.37	0.00	0.47	0.20	9.89
Sway	[m]	-0.81	-0.00	0.94	0.51	7.11
Heave	[m]	-0.45	0.69	1.74	0.72	6.94
Roll	[deg]	-7.83	-5.84	-2.39	2.13	17.10
Pitch	[deg]	-0.29	0.48	1.23	0.47	6.81
Yaw	[deg]	-10.40	-1.05	20.12	19.61	0.00
Roll(filt)	[deg]	-7.40	-5.84	-3.80	1.88	1082.89
Pitch(filt)	[deg]	0.44	0.48	0.51	0.03	147.74

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 24

```
Ser no      :      2
Run no      :     163
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.64	0.01	1.87	2.54*	6.36
Wave height Port	[m]	-2.15	-0.00	1.66	2.38	6.37
Wave heading	[deg]	252.91	267.45	276.86	13.86	434.47
Speed	[knots]	0.01	1.30	2.09	0.53	15.57
Surge	[m]	-0.41	0.00	0.54	0.21	9.46
Sway	[m]	-0.88	-0.00	1.04	0.57	7.24
Heave	[m]	-0.44	0.69	1.86	0.81	6.98
Roll	[deg]	-9.79	-6.88	-2.22	2.85	14.97
Pitch	[deg]	-0.65	0.50	1.60	0.62	6.77
Yaw	[deg]	-8.04	1.37	15.91	13.86	434.81
Roll(filt)	[deg]	-9.19	-6.87	-3.82	2.63	331.41
Pitch(filt)	[deg]	0.44	0.50	0.54	0.04	284.19

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 25

```
Ser no      :      2
Run no      :     165
Scale factor :    40.000
Measuring time : 17 min 4 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 2.60 m
Nominal wave period : 6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.77	0.01	1.84	2.62*	6.52
Wave height Port	[m]	-2.36	-0.00	1.81	2.48	6.28
Wave heading	[deg]	267.95	272.53	279.05	6.05	5.19
Speed	[knots]	0.02	1.27	2.12	0.60	12.89
Surge	[m]	-0.39	0.00	0.51	0.24	9.82
Sway	[m]	-1.00	-0.00	1.04	0.68	7.06
Heave	[m]	-0.62	0.70	1.91	0.95	6.92
Roll	[deg]	-20.07	-7.37	-2.73	5.00	13.54
Pitch	[deg]	-0.28	0.50	1.28	0.37	6.83
Yaw	[deg]	-6.82	-0.30	4.28	6.05	391.49
Roll(filt)	[deg]	-17.70	-7.37	-3.93	4.84	103.39
Pitch(filt)	[deg]	0.44	0.50	0.57	0.05	146.79

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 26

```

Ser no           :      2
Run no          :     167
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.68	0.01	1.89	2.55*	6.40
Wave height Port	[m]	-2.15	-0.00	1.70	2.33	6.37
Wave heading	[deg]	255.62	267.36	275.49	12.40	281.78
Speed	[knots]	0.01	1.34	2.11	0.52	16.32
Surge	[m]	-0.37	0.00	0.54	0.22	10.97
Sway	[m]	-0.94	-0.00	1.02	0.57	7.21
Heave	[m]	-0.53	0.69	1.91	0.85	7.06
Roll	[deg]	-9.31	-6.63	-2.31	2.49	16.82
Pitch	[deg]	-0.59	0.50	1.51	0.62	6.80
Yaw	[deg]	-7.08	1.04	12.79	12.40	281.65
Roll(filt)	[deg]	-8.47	-6.63	-3.87	2.21	372.01
Pitch(filt)	[deg]	0.44	0.50	0.54	0.04	114.93

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 27

```

Ser no           :      2
Run no          :     169
Scale factor    :   40.000
Measuring time  : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.61	0.02	1.84	2.61*	6.30
Wave height Port	[m]	-2.23	0.01	1.82	2.39	6.26
Wave heading	[deg]	259.62	267.95	274.71	8.64	414.26
Speed	[knots]	0.03	1.27	2.04	0.49	13.48
Surge	[m]	-0.33	0.00	0.49	0.21	10.08
Sway	[m]	-0.96	-0.00	0.96	0.59	7.06
Heave	[m]	-0.41	0.70	1.89	0.84	6.89
Roll	[deg]	-8.93	-6.45	-2.83	2.45	26.22
Pitch	[deg]	-0.49	0.49	1.48	0.58	6.76
Yaw	[deg]	-6.06	0.70	9.03	8.64	19.42
Roll(filt)	[deg]	-7.95	-6.45	-3.90	2.18	70.33
Pitch(filt)	[deg]	0.44	0.49	0.53	0.03	177.56

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 28

```

Ser no           :          2
Run no          :         171
Scale factor    :        40.000
Measuring time  :       12 min 46 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length     :       137.40 m
Wave heading    :       90.00 deg
Water depth     :       102.00 m
Nominal wave height :       2.60 m
Nominal wave period :       6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.00	0.01	2.00	2.71*	6.51
Wave height Port	[m]	-2.29	0.00	1.75	2.66	6.38
Wave heading	[deg]	269.63	274.50	278.47	5.31	206.75
Speed	[knots]	0.00	1.25	2.12	0.65	12.90
Surge	[m]	-0.32	0.01	0.52	0.22	9.21
Sway	[m]	-1.00	0.00	1.16	0.68	7.12
Heave	[m]	-0.46	0.71	1.82	0.91	6.92
Roll	[deg]	-21.95	-7.38	-2.61	5.92	26.58
Pitch	[deg]	-0.39	0.50	1.49	0.51	6.98
Yaw	[deg]	-4.81	-0.84	4.03	5.31	207.38
Roll(filt)	[deg]	-20.50	-7.39	-3.81	5.82	41.74
Pitch(filt)	[deg]	0.44	0.50	0.55	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 29

```
Ser no      :      2
Run no      :     173
Scale factor :    40.000
Measuring time : 15 min 16 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 2.60 m
Nominal wave period : 6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.88	0.02	2.12	2.68*	6.19
Wave height Port	[m]	-2.08	0.01	1.80	2.45	6.14
Wave heading	[deg]	265.28	271.45	275.93	6.90	0.00
Speed	[knots]	0.01	1.32	2.19	0.66	14.20
Surge	[m]	-0.36	0.00	0.49	0.25	10.01
Sway	[m]	-1.00	-0.00	1.06	0.68	7.05
Heave	[m]	-0.50	0.71	1.97	0.97	6.88
Roll	[deg]	-21.27	-7.11	-2.83	5.26	19.17
Pitch	[deg]	-0.06	0.49	1.09	0.37	6.68
Yaw	[deg]	-4.63	-0.16	6.01	6.90	0.00
Roll(filt)	[deg]	-18.04	-7.11	-3.80	5.05	71.72
Pitch(filt)	[deg]	0.44	0.49	0.57	0.05	88.04

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 30

```

Ser no           :      2
Run no          :     175
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.34	0.01	1.95	2.52*	6.43
Wave height Port	[m]	-2.13	0.00	1.80	2.40	6.40
Wave heading	[deg]	256.99	269.41	276.36	11.32	203.05
Speed	[knots]	0.01	1.36	2.16	0.54	14.92
Surge	[m]	-0.39	0.00	0.55	0.23	10.28
Sway	[m]	-0.98	-0.00	1.08	0.59	7.09
Heave	[m]	-0.54	0.69	1.94	0.88	7.06
Roll	[deg]	-11.66	-6.97	-2.51	2.94	14.03
Pitch	[deg]	-0.54	0.50	1.58	0.62	6.80
Yaw	[deg]	-6.60	0.35	12.77	11.32	185.48
Roll(filt)	[deg]	-11.22	-6.97	-3.86	2.74	199.20
Pitch(filt)	[deg]	0.44	0.50	0.56	0.04	134.66

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 31

```
Ser no          :          2
Run no          :         177
Scale factor    :        40.000
Measuring time  :       24 min 6 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length     :       137.40 m
Wave heading    :       90.00 deg
Water depth     :       102.00 m
Nominal wave height :       2.60 m
Nominal wave period :       6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.05	0.02	1.98	2.58*	6.37
Wave height Port	[m]	-2.25	0.01	1.53	2.31	6.44
Wave heading	[deg]	259.01	269.25	280.78	11.36	4.93
Speed	[knots]	0.01	1.27	2.15	0.56	16.70
Surge	[m]	-0.43	0.00	0.53	0.23	9.93
Sway	[m]	-0.84	-0.00	1.08	0.60	7.18
Heave	[m]	-0.51	0.71	1.90	0.88	6.88
Roll	[deg]	-21.48	-7.38	-2.67	4.84	30.66
Pitch	[deg]	-0.50	0.49	1.47	0.56	6.72
Yaw	[deg]	-11.54	-0.01	10.23	11.36	314.71
Roll(filt)	[deg]	-19.14	-7.38	-3.99	4.69	0.00
Pitch(filt)	[deg]	0.44	0.49	0.54	0.04	176.08

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 32

```

Ser no           :      2
Run no          :     179
Scale factor     :    40.000
Measuring time   :   29 min 41 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.44	0.03	1.88	2.46*	6.33
Wave height Port	[m]	-1.93	0.02	1.79	2.40	6.32
Wave heading	[deg]	257.28	268.52	279.00	13.38	305.31
Speed	[knots]	0.01	1.34	2.15	0.54	17.61
Surge	[m]	-0.42	0.00	0.53	0.23	9.89
Sway	[m]	-0.95	-0.00	0.99	0.58	7.17
Heave	[m]	-0.47	0.72	1.91	0.87	7.06
Roll	[deg]	-21.87	-7.44	-2.50	4.24	14.63
Pitch	[deg]	-0.61	0.50	1.55	0.63	6.73
Yaw	[deg]	-10.42	0.06	11.29	13.38	382.29
Roll(filt)	[deg]	-20.77	-7.44	-4.02	4.10	250.48
Pitch(filt)	[deg]	0.44	0.50	0.57	0.05	122.95

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 33

```
Ser no          :      2
Run no          :     181
Scale factor    :    40.000
Measuring time  :   21 min 37 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.65	0.02	1.87	2.67*	6.35
Wave height Port	[m]	-2.32	0.01	1.72	2.47	6.24
Wave heading	[deg]	260.60	270.73	275.69	7.33	83.60
Speed	[knots]	0.01	1.32	2.10	0.57	12.98
Surge	[m]	-0.34	0.00	0.53	0.23	10.11
Sway	[m]	-0.94	-0.00	1.03	0.64	7.07
Heave	[m]	-0.52	0.72	1.89	0.91	6.90
Roll	[deg]	-22.38	-7.24	-2.23	4.88	30.59
Pitch	[deg]	-0.51	0.49	1.51	0.43	6.83
Yaw	[deg]	-5.09	-0.13	10.00	7.33	83.64
Roll(filt)	[deg]	-19.75	-7.25	-3.89	4.72	66.91
Pitch(filt)	[deg]	0.44	0.49	0.56	0.04	42.88

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 34

```

Ser no           :      2
Run no          :     183
Scale factor     :    40.000
Measuring time   :   20 min 49 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.68	0.01	1.83	2.76*	6.13
Wave height Port	[m]	-2.46	0.00	1.79	2.52	6.36
Wave heading	[deg]	260.62	270.15	274.75	6.92	12.65
Speed	[knots]	0.01	1.29	2.04	0.54	13.93
Surge	[m]	-0.32	0.00	0.45	0.23	9.89
Sway	[m]	-0.95	-0.00	0.95	0.64	7.07
Heave	[m]	-0.54	0.71	1.86	0.91	6.92
Roll	[deg]	-19.93	-7.15	-2.95	4.77	25.71
Pitch	[deg]	-0.26	0.49	1.26	0.41	6.66
Yaw	[deg]	-4.81	-0.21	9.32	6.92	713.54
Roll(filt)	[deg]	-18.07	-7.15	-4.09	4.63	75.64
Pitch(filt)	[deg]	0.44	0.49	0.54	0.04	52.54

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

Ser no : 2
 Run no : 185
 Scale factor : 40.000
 Measuring time : 12 min 44 sec
 Sampling frequency : 7.906 Hz
 Ship speed (Nominal) : 0.20 knots
 Ship length : 137.40 m
 Wave heading : 90.00 deg
 Water depth : 102.00 m
 Nominal wave height : 2.60 m
 Nominal wave period : 6.45 sec

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.25	0.04	1.93	2.52*	6.27
Wave height Port	[m]	-2.01	0.04	1.73	2.45	6.44
Wave heading	[deg]	267.44	273.58	281.40	7.89	0.00
Speed	[knots]	0.00	1.31	2.24	0.71	14.34
Surge	[m]	-0.34	0.00	0.54	0.27	11.66
Sway	[m]	-0.92	0.00	1.08	0.70	7.28
Heave	[m]	-0.45	0.72	1.97	0.95	6.94
Roll	[deg]	-17.30	-6.49	-1.94	5.30	19.60
Pitch	[deg]	-0.34	0.49	1.40	0.45	6.74
Yaw	[deg]	-8.62	-0.80	5.34	7.89	4.68
Roll(filt)	[deg]	-16.96	-6.50	-3.71	5.19	0.00
Pitch(filt)	[deg]	0.45	0.50	0.55	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 36

```
Ser no      :      2
Run no      :     187
Scale factor :    40.000
Measuring time : 15 min 11 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length  :   137.40 m
Wave heading  :    90.00 deg
Water depth   :   102.00 m
Nominal wave height : 2.60 m
Nominal wave period : 6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.45	0.02	2.08	2.56*	6.31
Wave height Port	[m]	-2.02	0.02	1.82	2.49	6.18
Wave heading	[deg]	267.73	273.22	276.74	5.65	513.81
Speed	[knots]	0.01	1.28	2.11	0.67	15.50
Surge	[m]	-0.35	0.01	0.52	0.24	10.31
Sway	[m]	-1.00	0.00	1.08	0.68	6.78
Heave	[m]	-0.54	0.72	1.95	0.95	6.94
Roll	[deg]	-21.58	-7.16	-2.60	5.70	16.10
Pitch	[deg]	-0.01	0.50	1.10	0.36	6.82
Yaw	[deg]	-4.04	-0.53	4.96	5.65	4.30
Roll(filt)	[deg]	-18.68	-7.16	-3.89	5.56	50.85
Pitch(filt)	[deg]	0.44	0.50	0.59	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 37

```

Ser no           :      2
Run no          :     189
Scale factor     :    40.000
Measuring time   :   21 min 37 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.26	0.04	1.78	2.53*	6.38
Wave height Port	[m]	-2.03	0.03	1.85	2.39	6.38
Wave heading	[deg]	263.71	270.73	277.83	8.51	0.00
Speed	[knots]	0.02	1.35	2.00	0.55	13.45
Surge	[m]	-0.36	0.00	0.42	0.24	10.20
Sway	[m]	-0.96	-0.00	1.12	0.67	7.29
Heave	[m]	-0.56	0.72	2.02	0.96	6.93
Roll	[deg]	-20.41	-6.79	-2.92	4.75	19.02
Pitch	[deg]	-0.29	0.50	1.34	0.48	6.52
Yaw	[deg]	-7.18	-0.08	6.94	8.51	0.00
Roll(filt)	[deg]	-19.02	-6.79	-3.93	4.58	39.24
Pitch(filt)	[deg]	0.45	0.50	0.58	0.06	65.27

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 38

```
Ser no          :      2
Run no          :     191
Scale factor    :    40.000
Measuring time  :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.64	0.02	2.00	2.53*	6.41
Wave height Port	[m]	-1.94	0.02	1.89	2.45	6.36
Wave heading	[deg]	257.25	269.91	278.46	10.73	255.17
Speed	[knots]	0.01	1.33	2.13	0.49	13.07
Surge	[m]	-0.42	0.00	0.52	0.23	10.56
Sway	[m]	-1.01	-0.00	1.03	0.61	7.10
Heave	[m]	-0.54	0.71	1.88	0.91	6.99
Roll	[deg]	-12.81	-7.25	-2.46	3.09	15.95
Pitch	[deg]	-0.51	0.51	1.50	0.58	6.79
Yaw	[deg]	-8.39	0.16	12.82	10.73	219.21
Roll(filt)	[deg]	-12.47	-7.25	-3.93	2.90	253.90
Pitch(filt)	[deg]	0.45	0.51	0.57	0.05	112.28

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 39

```

Ser no           :      2
Run no          :     193
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
<hr/>						
Wave height CL	[m]	-2.58	0.03	1.87	2.58*	6.26
Wave height Port	[m]	-2.31	0.02	1.77	2.34	6.35
Wave heading	[deg]	260.19	268.46	278.91	9.16	371.00
Speed	[knots]	0.01	1.30	2.03	0.51	12.86
Surge	[m]	-0.46	0.00	0.45	0.22	10.66
Sway	[m]	-0.99	-0.00	1.01	0.60	7.05
Heave	[m]	-0.48	0.71	1.87	0.90	6.99
Roll	[deg]	-10.45	-6.71	-2.72	2.82	20.12
Pitch	[deg]	-0.49	0.50	1.48	0.56	6.86
Yaw	[deg]	-9.89	0.56	8.84	9.16	434.54
Roll(filt)	[deg]	-10.11	-6.71	-3.95	2.61	39.09
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	91.91

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 40

```
Ser no          :      2
Run no          :     195
Scale factor    :    40.000
Measuring time  :   17 min 3 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.90	0.04	1.80	2.64*	6.44
Wave height Port	[m]	-2.09	0.03	1.85	2.49	6.29
Wave heading	[deg]	268.83	272.93	277.13	4.37	454.36
Speed	[knots]	0.01	1.26	2.03	0.58	13.04
Surge	[m]	-0.35	0.00	0.50	0.22	10.40
Sway	[m]	-1.00	-0.00	1.08	0.67	7.11
Heave	[m]	-0.41	0.74	1.90	0.92	6.87
Roll	[deg]	-20.64	-7.15	-2.52	5.05	15.66
Pitch	[deg]	-0.16	0.50	1.27	0.36	6.92
Yaw	[deg]	-4.58	-0.38	3.72	4.37	4.81
Roll(filt)	[deg]	-18.24	-7.15	-3.88	4.89	63.12
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 41

```

Ser no           :      2
Run no          :     197
Scale factor     :    40.000
Measuring time   :   16 min 18 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
<hr/>						
Wave height CL	[m]	-2.72	0.02	1.77	2.56*	6.42
Wave height Port	[m]	-2.48	0.02	1.79	2.47	6.24
Wave heading	[deg]	266.85	272.44	276.75	5.18	23.19
Speed	[knots]	0.00	1.25	2.03	0.62	14.12
Surge	[m]	-0.33	0.00	0.47	0.22	9.95
Sway	[m]	-0.94	0.00	1.00	0.65	6.97
Heave	[m]	-0.38	0.72	1.86	0.90	6.87
Roll	[deg]	-21.05	-7.16	-2.46	5.39	17.04
Pitch	[deg]	-0.08	0.50	1.21	0.34	6.87
Yaw	[deg]	-4.64	-0.33	5.25	5.18	98.24
Roll(filt)	[deg]	-19.53	-7.16	-3.93	5.27	0.00
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 42

```
Ser no      :      2
Run no      :     199
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading  :    90.00 deg
Water depth   :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.76	0.04	1.88	2.59*	6.20
Wave height Port	[m]	-2.01	0.04	1.91	2.48	6.22
Wave heading	[deg]	256.86	271.29	278.23	10.28	31.50
Speed	[knots]	0.00	1.18	1.99	0.51	13.67
Surge	[m]	-0.34	0.00	0.56	0.20	10.12
Sway	[m]	-0.91	-0.00	1.02	0.57	6.92
Heave	[m]	-0.34	0.74	1.79	0.83	6.98
Roll	[deg]	-10.23	-7.10	-2.21	3.53	23.73
Pitch	[deg]	-0.39	0.50	1.35	0.48	6.85
Yaw	[deg]	-9.77	-2.83	11.60	10.28	585.40
Roll(filt)	[deg]	-9.86	-7.11	-3.69	3.40	76.27
Pitch(filt)	[deg]	0.44	0.50	0.53	0.04	122.84

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 43

```

Ser no           :      2
Run no          :     201
Scale factor     :    40.000
Measuring time   :   15 min 59 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.60 m
Nominal wave period :    6.45 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.04	0.03	1.88	2.70*	6.47
Wave height Port	[m]	-2.63	0.03	1.85	2.60	6.33
Wave heading	[deg]	268.74	274.01	277.94	5.10	204.28
Speed	[knots]	0.01	1.25	2.07	0.57	11.77
Surge	[m]	-0.34	0.00	0.50	0.21	9.43
Sway	[m]	-0.98	0.00	1.11	0.66	7.02
Heave	[m]	-0.40	0.73	1.83	0.90	6.97
Roll	[deg]	-21.06	-7.41	-2.70	5.03	20.21
Pitch	[deg]	-0.28	0.50	1.34	0.44	6.72
Yaw	[deg]	-4.35	-0.43	4.85	5.10	209.64
Roll(filt)	[deg]	-19.49	-7.41	-3.89	4.90	45.41
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 44

```
Ser no      :      2
Run no      :      67
Scale factor :    40.000
Measuring time : 15 min 21 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.70	-0.03	1.92	2.63*	6.41
Wave height Port	[m]	-2.24	-0.03	1.51	2.51	6.31
Wave heading	[deg]	266.89	270.96	274.46	3.64	49.30
Speed	[knots]	0.01	1.31	2.20	0.63	10.61
Surge	[m]	-0.44	0.00	0.50	0.27	10.67
Sway	[m]	-1.13	-0.00	1.08	0.75	7.06
Heave	[m]	-0.77	0.68	2.00	1.01	7.06
Roll	[deg]	-16.60	-7.21	-1.81	5.62	14.78
Pitch	[deg]	0.04	0.49	1.05	0.33	6.69
Yaw	[deg]	-3.98	-0.48	3.58	3.64	19.89
Roll(filt)	[deg]	-15.98	-7.22	-3.54	5.48	0.00
Pitch(filt)	[deg]	0.44	0.49	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 45

```
Ser no      :      2
Run no      :      70
Scale factor :    40.000
Measuring time : 18 min 36 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.46	-0.03	2.11	2.70*	6.45
Wave height Port	[m]	-2.06	-0.03	1.64	2.45	6.30
Wave heading	[deg]	264.61	271.98	278.98	8.11	0.00
Speed	[knots]	0.02	1.33	2.14	0.61	11.36
Surge	[m]	-0.39	0.00	0.46	0.26	10.56
Sway	[m]	-1.04	0.00	0.99	0.71	7.29
Heave	[m]	-0.62	0.68	1.96	0.97	7.11
Roll	[deg]	-16.91	-6.92	-2.16	4.92	23.73
Pitch	[deg]	-0.34	0.49	1.30	0.43	6.80
Yaw	[deg]	-7.80	-0.80	6.57	8.11	0.00
Roll(filt)	[deg]	-15.09	-6.92	-3.94	4.74	80.83
Pitch(filt)	[deg]	0.44	0.49	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 46

```
Ser no          :          2
Run no          :          72
Scale factor    :      40.000
Measuring time  :    14 min 7 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :    137.40 m
Wave heading    :    90.00 deg
Water depth     :    102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.64	-0.03	1.84	2.68*	6.38
Wave height Port	[m]	-2.37	-0.04	1.64	2.58	6.35
Wave heading	[deg]	267.07	271.40	275.57	4.46	233.57
Speed	[knots]	0.02	1.32	2.19	0.66	11.40
Surge	[m]	-0.42	0.00	0.49	0.27	10.52
Sway	[m]	-1.05	-0.00	1.08	0.74	7.18
Heave	[m]	-0.66	0.69	2.00	1.00	7.06
Roll	[deg]	-18.09	-7.35	-2.11	5.79	16.79
Pitch	[deg]	-0.06	0.49	1.06	0.33	7.11
Yaw	[deg]	-4.93	-0.76	3.57	4.46	12.90
Roll(filt)	[deg]	-17.10	-7.35	-3.75	5.65	0.00
Pitch(filt)	[deg]	0.44	0.49	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 47

```

Ser no          :          2
Run no          :          74
Scale factor     :      40.000
Measuring time   :    11 min 38 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :    137.40 m
Wave heading     :    90.00 deg
Water depth      :    102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.75	-0.04	1.73	2.64*	6.44
Wave height Port	[m]	-2.26	-0.03	1.78	2.60	6.49
Wave heading	[deg]	269.82	275.66	280.75	6.35	5.44
Speed	[knots]	0.03	1.23	2.14	0.63	12.04
Surge	[m]	-0.40	0.01	0.48	0.25	10.46
Sway	[m]	-1.01	0.00	1.09	0.73	7.15
Heave	[m]	-0.57	0.67	1.88	0.96	7.03
Roll	[deg]	-18.90	-7.22	-2.24	5.95	15.59
Pitch	[deg]	-0.37	0.50	1.44	0.51	6.86
Yaw	[deg]	-6.31	-1.22	4.62	6.35	361.64
Roll(filt)	[deg]	-17.61	-7.22	-3.71	5.83	0.00
Pitch(filt)	[deg]	0.45	0.50	0.56	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 48

```
Ser no      :      2
Run no      :      76
Scale factor :    40.000
Measuring time : 11 min 14 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.52	-0.06	1.86	2.63*	6.53
Wave height Port	[m]	-2.24	-0.06	1.94	2.54	6.43
Wave heading	[deg]	266.06	271.77	277.51	7.80	0.00
Speed	[knots]	0.03	1.30	2.19	0.71	12.69
Surge	[m]	-0.41	0.01	0.50	0.28	10.48
Sway	[m]	-1.06	-0.00	1.10	0.74	7.20
Heave	[m]	-0.75	0.66	1.97	1.00	7.06
Roll	[deg]	-18.13	-7.11	-2.31	5.91	20.18
Pitch	[deg]	-0.17	0.49	1.21	0.42	6.75
Yaw	[deg]	-6.54	-0.80	4.92	7.80	0.00
Roll(filt)	[deg]	-17.62	-7.12	-3.89	5.78	57.17
Pitch(filt)	[deg]	0.44	0.49	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 49

```
Ser no      :      2
Run no      :      80
Scale factor :    40.000
Measuring time : 18 min 49 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.96	-0.04	1.77	2.62*	6.60
Wave height Port	[m]	-2.41	-0.04	1.80	2.49	6.28
Wave heading	[deg]	263.86	273.73	281.34	10.48	48.70
Speed	[knots]	0.03	1.30	2.20	0.57	11.57
Surge	[m]	-0.34	0.00	0.47	0.24	9.56
Sway	[m]	-1.05	0.00	1.06	0.68	7.23
Heave	[m]	-0.66	0.67	1.84	0.91	7.05
Roll	[deg]	-21.08	-6.90	-2.51	5.36	17.63
Pitch	[deg]	-0.47	0.49	1.52	0.52	6.99
Yaw	[deg]	-8.62	-1.01	8.86	10.48	643.33
Roll(filt)	[deg]	-19.26	-6.90	-4.02	5.23	75.01
Pitch(filt)	[deg]	0.44	0.49	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 50

```

Ser no           :      2
Run no          :      82
Scale factor     :    40.000
Measuring time   :   17 min 14 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.76	-0.03	1.93	2.65*	6.57
Wave height Port	[m]	-2.31	-0.03	1.82	2.60	6.24
Wave heading	[deg]	268.25	274.57	283.75	9.46	4.68
Speed	[knots]	0.02	1.29	2.38	0.56	11.13
Surge	[m]	-0.35	0.00	0.47	0.23	9.79
Sway	[m]	-0.81	0.00	1.12	0.68	7.21
Heave	[m]	-0.62	0.69	1.90	0.92	7.03
Roll	[deg]	-19.65	-7.74	-2.27	5.28	55.07
Pitch	[deg]	-0.57	0.50	1.50	0.51	6.87
Yaw	[deg]	-9.77	-0.60	5.72	9.46	475.73
Roll(filt)	[deg]	-17.39	-7.73	-3.54	5.13	0.00
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 51

```
Ser no      :      2
Run no      :      85
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.79	-0.04	2.00	2.80*	6.42
Wave height Port	[m]	-2.74	-0.04	1.96	2.62	6.25
Wave heading	[deg]	267.23	273.10	281.12	7.38	207.22
Speed	[knots]	0.04	1.21	2.09	0.54	15.34
Surge	[m]	-0.36	0.00	0.47	0.20	9.30
Sway	[m]	-0.94	0.00	1.11	0.65	7.17
Heave	[m]	-0.61	0.68	1.82	0.89	7.01
Roll	[deg]	-10.04	-7.16	-2.33	2.95	22.49
Pitch	[deg]	-0.35	0.50	1.36	0.43	6.90
Yaw	[deg]	-7.46	0.57	6.43	7.38	251.70
Roll(filt)	[deg]	-9.46	-7.16	-3.70	2.78	372.81
Pitch(filt)	[deg]	0.44	0.50	0.53	0.04	156.36

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 52

```
Ser no      :      2
Run no      :      87
Scale factor :    40.000
Measuring time : 14 min 54 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.67	-0.05	2.17	2.72*	6.53
Wave height Port	[m]	-2.28	-0.04	1.90	2.53	6.36
Wave heading	[deg]	266.50	273.09	279.87	8.51	398.57
Speed	[knots]	0.04	1.29	2.16	0.62	11.33
Surge	[m]	-0.41	0.00	0.51	0.26	10.08
Sway	[m]	-1.00	-0.00	1.12	0.72	7.10
Heave	[m]	-0.68	0.68	1.85	0.96	7.05
Roll	[deg]	-20.84	-7.47	-2.12	6.01	32.61
Pitch	[deg]	-0.26	0.49	1.26	0.44	6.78
Yaw	[deg]	-7.40	-0.62	5.97	8.51	4.93
Roll(filt)	[deg]	-18.63	-7.47	-3.67	5.85	0.00
Pitch(filt)	[deg]	0.44	0.49	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 53

```
Ser no      :      2
Run no      :      89
Scale factor :    40.000
Measuring time : 14 min 46 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.61	-0.04	1.79	2.71*	6.43
Wave height Port	[m]	-2.21	-0.03	1.90	2.48	6.53
Wave heading	[deg]	265.09	271.60	279.32	9.24	4.93
Speed	[knots]	0.02	1.30	2.14	0.61	12.25
Surge	[m]	-0.36	0.00	0.45	0.26	10.53
Sway	[m]	-1.05	0.00	1.03	0.71	7.29
Heave	[m]	-0.69	0.67	1.86	0.96	7.05
Roll	[deg]	-19.00	-7.04	-2.19	5.66	24.59
Pitch	[deg]	-0.25	0.48	1.26	0.45	6.57
Yaw	[deg]	-8.49	-0.78	5.73	9.24	424.00
Roll(filt)	[deg]	-17.88	-7.04	-4.00	5.50	0.00
Pitch(filt)	[deg]	0.43	0.48	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 54

```

Ser no           :      2
Run no          :      91
Scale factor     :    40.000
Measuring time   :   11 min 45 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.36	-0.05	2.17	2.68*	6.71
Wave height Port	[m]	-2.02	-0.03	2.00	2.62	6.21
Wave heading	[deg]	269.81	274.60	278.83	5.74	368.22
Speed	[knots]	0.04	1.30	2.39	0.67	12.02
Surge	[m]	-0.37	0.01	0.50	0.27	10.17
Sway	[m]	-0.95	0.00	1.18	0.74	7.18
Heave	[m]	-0.73	0.68	1.93	0.97	7.05
Roll	[deg]	-21.41	-7.20	-2.31	6.19	35.04
Pitch	[deg]	-0.26	0.49	1.19	0.46	6.91
Yaw	[deg]	-5.08	-0.85	3.94	5.74	5.95
Roll(filt)	[deg]	-19.68	-7.21	-3.66	6.07	0.00
Pitch(filt)	[deg]	0.43	0.49	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 55

```
Ser no      :      2
Run no      :     103
Scale factor :    40.000
Measuring time : 18 min 56 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 2.75 m
Nominal wave period : 6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.20	-0.04	1.72	2.63*	6.48
Wave height Port	[m]	-2.14	-0.03	1.75	2.53	6.22
Wave heading	[deg]	265.94	275.13	281.05	8.26	109.86
Speed	[knots]	0.06	1.27	2.12	0.57	11.93
Surge	[m]	-0.34	0.00	0.47	0.23	9.03
Sway	[m]	-0.99	0.00	1.10	0.69	7.13
Heave	[m]	-0.64	0.67	1.80	0.93	7.08
Roll	[deg]	-19.54	-7.02	-2.39	5.12	19.12
Pitch	[deg]	-0.49	0.49	1.49	0.52	6.85
Yaw	[deg]	-6.63	-0.71	8.47	8.26	168.61
Roll(filt)	[deg]	-18.31	-7.03	-3.90	5.01	62.11
Pitch(filt)	[deg]	0.44	0.49	0.56	0.05	93.03

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 56

```
Ser no      :      2
Run no      :     106
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.08	-0.05	2.01	2.76*	6.37
Wave height Port	[m]	-2.48	-0.03	2.23	2.49	6.24
Wave heading	[deg]	265.15	272.83	280.46	8.94	3.92
Speed	[knots]	0.01	1.24	2.11	0.53	13.63
Surge	[m]	-0.35	0.00	0.52	0.23	9.23
Sway	[m]	-1.02	-0.00	1.10	0.64	7.23
Heave	[m]	-0.68	0.66	1.83	0.88	7.06
Roll	[deg]	-8.66	-6.60	-2.10	2.44	20.65
Pitch	[deg]	-0.46	0.49	1.55	0.50	6.92
Yaw	[deg]	-9.29	-1.66	6.01	8.94	981.44
Roll(filt)	[deg]	-8.06	-6.60	-3.70	2.21	72.23
Pitch(filt)	[deg]	0.43	0.49	0.52	0.04	127.71

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 57

```
Ser no      :      2
Run no      :     108
Scale factor :    40.000
Measuring time : 18 min 58 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 2.75 m
Nominal wave period : 6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.73	-0.05	1.82	2.73*	6.38
Wave height Port	[m]	-2.58	-0.04	1.64	2.52	6.43
Wave heading	[deg]	265.75	272.96	279.80	7.68	111.19
Speed	[knots]	0.03	1.31	2.12	0.58	12.29
Surge	[m]	-0.36	0.00	0.48	0.24	9.90
Sway	[m]	-1.10	0.00	1.12	0.70	7.05
Heave	[m]	-0.71	0.67	1.89	0.95	7.01
Roll	[deg]	-20.99	-7.35	-2.44	5.30	19.54
Pitch	[deg]	-0.28	0.49	1.31	0.44	6.86
Yaw	[deg]	-7.60	-0.76	6.45	7.68	264.66
Roll(filt)	[deg]	-19.34	-7.35	-3.86	5.17	42.18
Pitch(filt)	[deg]	0.44	0.49	0.57	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 58

```

Ser no           :      2
Run no          :     110
Scale factor     :    40.000
Measuring time   :   17 min 26 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.77	-0.03	1.90	2.68*	6.29
Wave height Port	[m]	-2.51	-0.02	1.64	2.46	6.25
Wave heading	[deg]	266.57	272.94	280.01	7.89	2.91
Speed	[knots]	0.03	1.30	2.12	0.59	12.57
Surge	[m]	-0.41	0.00	0.48	0.25	9.59
Sway	[m]	-1.01	-0.00	1.09	0.70	7.14
Heave	[m]	-0.62	0.70	1.93	0.95	7.00
Roll	[deg]	-20.33	-7.33	-2.34	5.22	18.02
Pitch	[deg]	-0.27	0.50	1.28	0.43	6.94
Yaw	[deg]	-7.70	-0.64	5.73	7.89	201.82
Roll(filt)	[deg]	-18.90	-7.33	-3.84	5.10	64.38
Pitch(filt)	[deg]	0.44	0.50	0.55	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 59

```
Ser no          :      2
Run no          :     112
Scale factor    :    40.000
Measuring time  :   20 min 28 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.52	-0.04	2.12	2.70*	6.43
Wave height Port	[m]	-2.10	-0.03	1.94	2.50	6.34
Wave heading	[deg]	269.71	274.89	282.72	7.83	94.08
Speed	[knots]	0.00	1.30	2.34	0.55	11.78
Surge	[m]	-0.40	0.00	0.48	0.23	9.39
Sway	[m]	-0.91	0.00	1.10	0.69	7.27
Heave	[m]	-0.54	0.69	1.91	0.93	7.10
Roll	[deg]	-20.51	-7.73	-2.36	5.22	24.96
Pitch	[deg]	-0.46	0.50	1.40	0.49	6.76
Yaw	[deg]	-8.49	-0.66	4.52	7.83	183.39
Roll(filt)	[deg]	-17.98	-7.73	-3.69	5.09	86.77
Pitch(filt)	[deg]	0.44	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 60

```

Ser no           :      2
Run no          :     114
Scale factor     :    40.000
Measuring time   :   29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.97	-0.03	1.81	2.56*	6.27
Wave height Port	[m]	-2.16	-0.02	1.96	2.35	6.41
Wave heading	[deg]	257.50	269.75	284.96	12.06	612.72
Speed	[knots]	0.02	1.41	2.16	0.53	13.41
Surge	[m]	-0.43	0.00	0.49	0.25	9.79
Sway	[m]	-1.06	-0.00	1.05	0.65	7.32
Heave	[m]	-0.72	0.69	2.04	0.95	7.13
Roll	[deg]	-10.91	-6.97	-1.98	3.11	19.17
Pitch	[deg]	-0.69	0.50	1.78	0.62	6.72
Yaw	[deg]	-14.82	0.39	12.64	12.06	718.09
Roll(filt)	[deg]	-10.74	-6.97	-3.70	2.88	519.82
Pitch(filt)	[deg]	0.43	0.50	0.56	0.05	108.53

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 61

```
Ser no      :      2
Run no      :     116
Scale factor :    40.000
Measuring time : 29 min 58 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.61	-0.04	1.92	2.54*	6.28
Wave height Port	[m]	-1.98	-0.03	1.67	2.34	6.38
Wave heading	[deg]	251.45	265.63	276.50	14.58	60.07
Speed	[knots]	0.01	1.39	2.10	0.56	18.35
Surge	[m]	-0.41	0.00	0.47	0.23	10.55
Sway	[m]	-1.05	-0.00	0.99	0.57	7.49
Heave	[m]	-0.66	0.68	1.95	0.85	7.19
Roll	[deg]	-9.62	-6.71	-2.31	2.79	17.51
Pitch	[deg]	-0.71	0.49	1.74	0.70	6.86
Yaw	[deg]	-9.79	1.07	15.26	14.58	59.99
Roll(filt)	[deg]	-8.73	-6.71	-3.84	2.52	401.95
Pitch(filt)	[deg]	0.43	0.49	0.54	0.04	263.13

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 62

```
Ser no          :          2
Run no          :         118
Scale factor    :        40.000
Measuring time  :       29 min 58 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length     :       137.40 m
Wave heading    :       90.00 deg
Water depth     :       102.00 m
Nominal wave height :       2.75 m
Nominal wave period :       6.63 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.74	-0.03	2.01	2.51*	6.37
Wave height Port	[m]	-2.13	-0.02	1.72	2.33	6.30
Wave heading	[deg]	256.50	268.90	290.80	13.45	107.68
Speed	[knots]	0.02	1.41	2.20	0.55	12.26
Surge	[m]	-0.48	0.00	0.54	0.25	9.98
Sway	[m]	-1.09	-0.00	1.02	0.64	7.34
Heave	[m]	-0.70	0.69	1.96	0.93	7.20
Roll	[deg]	-20.07	-6.90	-1.81	4.09	11.34
Pitch	[deg]	-0.84	0.49	1.89	0.67	6.75
Yaw	[deg]	-21.89	0.01	12.41	13.45	167.95
Roll(filt)	[deg]	-19.29	-6.90	-3.81	3.94	135.38
Pitch(filt)	[deg]	0.43	0.49	0.57	0.06	104.69

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 63

```

Ser no           :      2
Run no          :     120
Scale factor     :    40.000
Measuring time   :   29 min 47 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    2.75 m
Nominal wave period :    6.63 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.50	-0.05	2.01	2.52*	6.30
Wave height Port	[m]	-2.08	-0.04	1.84	2.36	6.37
Wave heading	[deg]	256.15	268.79	284.29	12.66	95.67
Speed	[knots]	0.02	1.38	2.11	0.56	13.87
Surge	[m]	-0.41	0.00	0.52	0.25	10.01
Sway	[m]	-1.04	-0.00	1.06	0.63	7.39
Heave	[m]	-0.72	0.68	1.89	0.90	7.16
Roll	[deg]	-23.22	-7.49	-2.19	4.51	17.71
Pitch	[deg]	-0.57	0.50	1.55	0.63	6.79
Yaw	[deg]	-15.50	-0.00	12.65	12.66	144.66
Roll(filt)	[deg]	-20.65	-7.49	-3.72	4.33	544.86
Pitch(filt)	[deg]	0.43	0.50	0.58	0.06	201.32

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 64

```
Ser no      :      2
Run no      :      6
Scale factor :    40.000
Measuring time : 9 min 3 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 3.00 m
Nominal wave period : 6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.52	-0.04	2.02	2.83*	6.67
Wave height Port	[m]	-2.25	-0.02	2.28	2.81	6.87
Wave heading	[deg]	266.41	271.49	275.16	5.44	0.00
Speed	[knots]	0.02	1.29	2.24	0.70	13.30
Surge	[m]	-0.46	0.01	0.58	0.32	9.70
Sway	[m]	-1.13	-0.00	1.31	0.87	7.49
Heave	[m]	-0.76	0.67	2.13	1.14	7.39
Roll	[deg]	-16.36	-6.69	-1.68	5.55	21.03
Pitch	[deg]	-0.03	0.51	1.09	0.39	7.07
Yaw	[deg]	-4.05	-0.38	4.69	5.44	0.00
Roll(filt)	[deg]	-15.21	-6.69	-3.72	5.37	0.00
Pitch(filt)	[deg]	0.45	0.51	0.56	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 65

```

Ser no           :      2
Run no          :      11
Scale factor     :    40.000
Measuring time   :   10 min 53 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.47	0.06	2.05	2.92*	6.71
Wave height Port	[m]	-2.51	0.08	2.21	2.87	6.60
Wave heading	[deg]	267.39	274.59	278.82	7.04	0.00
Speed	[knots]	0.01	1.35	2.41	0.67	11.48
Surge	[m]	-0.43	0.01	0.58	0.30	9.91
Sway	[m]	-1.20	0.00	1.35	0.88	7.31
Heave	[m]	-0.79	0.66	2.04	1.11	7.39
Roll	[deg]	-17.45	-6.62	-1.62	5.66	19.86
Pitch	[deg]	-0.43	0.50	1.52	0.56	7.20
Yaw	[deg]	-6.08	-1.85	5.35	7.04	37.44
Roll(filt)	[deg]	-15.80	-6.62	-3.48	5.48	0.00
Pitch(filt)	[deg]	0.45	0.50	0.56	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 66

```

Ser no           :          2
Run no           :          13
Scale factor     :      40.000
Measuring time   :    7 min 33 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    1.00 knots
Ship length      :    137.40 m
Wave heading     :    0.00 deg
Water depth      :    102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.20	0.04	1.96	2.82*	6.91
Wave height Port	[m]	-2.20	0.05	1.99	2.90	6.56
Wave heading	[deg]	178.03	180.24	182.32	2.43	10.08
Speed	[knots]	0.09	1.26	2.24	0.76	12.45
Surge	[m]	-0.43	0.01	0.58	0.32	10.53
Sway	[m]	-1.21	-0.00	1.37	0.89	7.39
Heave	[m]	-0.88	0.65	2.17	1.16	7.36
Roll	[deg]	-15.66	-6.96	-2.24	5.07	21.00
Pitch	[deg]	-0.01	0.50	0.98	0.32	7.23
Yaw	[deg]	-2.51	-0.42	1.79	2.43	14.83
Roll(filt)	[deg]	-13.56	-6.95	-4.00	4.84	0.00
Pitch(filt)	[deg]	0.45	0.50	0.55	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 67

```

Ser no          :          2
Run no          :          61
Scale factor    :      40.000
Measuring time  :    9 min 30 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :    137.40 m
Wave heading    :    90.00 deg
Water depth     :    102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.29	-0.03	1.99	2.91*	6.94
Wave height Port	[m]	-2.18	-0.04	2.01	2.80	6.66
Wave heading	[deg]	267.07	272.97	278.99	7.90	0.00
Speed	[knots]	0.00	1.34	2.36	0.68	12.06
Surge	[m]	-0.44	0.01	0.59	0.31	10.47
Sway	[m]	-1.19	-0.00	1.32	0.86	7.29
Heave	[m]	-0.77	0.68	2.03	1.12	7.38
Roll	[deg]	-19.32	-6.92	-2.05	6.09	36.83
Pitch	[deg]	-0.34	0.50	1.45	0.50	6.90
Yaw	[deg]	-6.96	-0.94	4.96	7.90	0.00
Roll(filt)	[deg]	-16.82	-6.92	-3.86	5.86	0.00
Pitch(filt)	[deg]	0.45	0.50	0.56	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 68

```

Ser no           :      2
Run no          :      63
Scale factor     :    40.000
Measuring time   :    9 min 51 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.29	-0.04	1.95	2.89*	6.80
Wave height Port	[m]	-2.46	-0.04	1.95	2.81	6.66
Wave heading	[deg]	265.96	274.78	282.22	10.50	0.00
Speed	[knots]	0.00	1.31	2.49	0.74	11.27
Surge	[m]	-0.48	0.01	0.62	0.33	10.22
Sway	[m]	-1.18	0.00	1.37	0.86	7.47
Heave	[m]	-0.79	0.67	2.00	1.11	7.37
Roll	[deg]	-17.86	-6.84	-1.91	5.88	36.86
Pitch	[deg]	-0.64	0.50	1.63	0.63	7.06
Yaw	[deg]	-9.60	-2.16	6.66	10.50	0.00
Roll(filt)	[deg]	-17.03	-6.85	-3.82	5.74	0.00
Pitch(filt)	[deg]	0.44	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 69

```
Ser no          :          2
Run no          :          65
Scale factor    :      40.000
Measuring time  :    9 min 17 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :    137.40 m
Wave heading    :    90.00 deg
Water depth     :    102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.40	-0.04	1.88	2.81*	6.88
Wave height Port	[m]	-2.60	-0.04	2.06	2.80	6.58
Wave heading	[deg]	266.88	274.32	280.30	9.09	0.00
Speed	[knots]	0.00	1.34	2.30	0.70	11.14
Surge	[m]	-0.45	0.01	0.58	0.30	9.63
Sway	[m]	-1.21	-0.00	1.33	0.86	7.39
Heave	[m]	-0.79	0.66	2.07	1.10	7.29
Roll	[deg]	-15.69	-6.75	-1.96	5.57	11.55
Pitch	[deg]	-0.48	0.49	1.55	0.60	7.08
Yaw	[deg]	-7.30	-1.32	6.12	9.09	0.00
Roll(filt)	[deg]	-15.15	-6.76	-3.78	5.44	28.33
Pitch(filt)	[deg]	0.44	0.49	0.55	0.05	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 70

```

Ser no           :      2
Run no          :      93
Scale factor     :    40.000
Measuring time   :   13 min 5 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.25	-0.04	1.89	2.94*	6.62
Wave height Port	[m]	-2.58	-0.03	1.96	2.80	6.66
Wave heading	[deg]	268.01	273.12	278.04	5.53	6.27
Speed	[knots]	0.01	1.35	2.39	0.67	12.81
Surge	[m]	-0.47	0.01	0.60	0.30	10.56
Sway	[m]	-1.21	0.00	1.36	0.86	7.37
Heave	[m]	-0.79	0.68	2.05	1.12	7.30
Roll	[deg]	-19.49	-7.38	-1.93	5.92	25.77
Pitch	[deg]	-0.28	0.50	1.26	0.41	6.92
Yaw	[deg]	-5.39	-0.47	4.64	5.53	81.33
Roll(filt)	[deg]	-17.86	-7.38	-3.69	5.78	0.00
Pitch(filt)	[deg]	0.44	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 71

```
Ser no      :      2
Run no      :      95
Scale factor :    40.000
Measuring time : 14 min 46 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.30	-0.03	2.11	2.93*	6.69
Wave height Port	[m]	-2.80	-0.02	1.92	2.81	6.56
Wave heading	[deg]	268.24	273.59	280.22	7.26	0.00
Speed	[knots]	0.01	1.30	2.30	0.61	12.50
Surge	[m]	-0.43	0.00	0.59	0.28	9.23
Sway	[m]	-1.20	0.00	1.29	0.82	7.31
Heave	[m]	-0.82	0.69	2.03	1.06	7.24
Roll	[deg]	-21.26	-7.75	-1.91	5.80	36.47
Pitch	[deg]	-0.54	0.50	1.41	0.47	7.06
Yaw	[deg]	-7.15	-0.52	4.83	7.26	0.00
Roll(filt)	[deg]	-18.82	-7.75	-3.64	5.65	0.00
Pitch(filt)	[deg]	0.44	0.50	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 72

```
Ser no      :      2
Run no      :      97
Scale factor :    40.000
Measuring time : 14 min 8 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-3.57	-0.05	2.22	3.00*	6.71
Wave height Port	[m]	-2.68	-0.04	1.95	2.86	6.77
Wave heading	[deg]	266.20	272.88	279.06	7.44	473.08
Speed	[knots]	0.00	1.30	2.26	0.67	12.71
Surge	[m]	-0.46	0.00	0.57	0.29	8.98
Sway	[m]	-1.13	-0.00	1.30	0.83	7.36
Heave	[m]	-0.74	0.67	2.14	1.09	7.40
Roll	[deg]	-22.48	-7.54	-2.04	6.22	15.20
Pitch	[deg]	-0.34	0.50	1.31	0.47	7.00
Yaw	[deg]	-6.94	-0.76	5.92	7.44	5.31
Roll(filt)	[deg]	-19.84	-7.54	-3.85	6.05	64.00
Pitch(filt)	[deg]	0.43	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 73

```
Ser no          :      2
Run no          :     101
Scale factor    :    40.000
Measuring time  :   12 min 5 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length     :   137.40 m
Wave heading    :    90.00 deg
Water depth     :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.61	-0.03	2.09	2.93*	6.75
Wave height Port	[m]	-2.59	-0.01	2.04	2.88	6.64
Wave heading	[deg]	269.79	275.81	283.29	8.33	184.99
Speed	[knots]	0.02	1.31	2.39	0.71	11.34
Surge	[m]	-0.46	0.00	0.60	0.30	8.96
Sway	[m]	-1.24	0.00	1.36	0.85	7.31
Heave	[m]	-0.82	0.69	2.09	1.09	7.33
Roll	[deg]	-19.05	-7.34	-1.79	5.94	20.15
Pitch	[deg]	-0.58	0.50	1.65	0.59	6.93
Yaw	[deg]	-8.96	-1.48	4.55	8.33	183.85
Roll(filt)	[deg]	-17.30	-7.34	-3.56	5.79	0.00
Pitch(filt)	[deg]	0.44	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 74

```

Ser no          :          2
Run no          :         143
Scale factor    :        40.000
Measuring time  :       14 min 38 sec
Sampling frequency :      7.906 Hz
Ship speed (Nominal) :      0.20 knots
Ship length     :      137.40 m
Wave heading    :      90.00 deg
Water depth     :      102.00 m
Nominal wave height :      3.00 m
Nominal wave period :      6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.72	0.00	2.22	3.11*	6.77
Wave height Port	[m]	-2.59	-0.01	2.04	2.81	6.66
Wave heading	[deg]	261.09	271.38	277.37	9.55	4.93
Speed	[knots]	0.02	1.36	2.30	0.63	13.73
Surge	[m]	-0.46	0.00	0.56	0.30	9.47
Sway	[m]	-1.03	-0.00	1.24	0.81	7.39
Heave	[m]	-0.80	0.69	2.10	1.10	7.38
Roll	[deg]	-19.83	-7.40	-2.34	5.48	25.72
Pitch	[deg]	-0.55	0.50	1.51	0.53	6.90
Yaw	[deg]	-6.72	-0.73	9.56	9.55	284.54
Roll(filt)	[deg]	-18.03	-7.40	-4.37	5.32	0.00
Pitch(filt)	[deg]	0.44	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 75

```
Ser no          :          2
Run no          :         145
Scale factor    :        40.000
Measuring time  :       9 min 47 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length     :       137.40 m
Wave heading    :       90.00 deg
Water depth     :       102.00 m
Nominal wave height :       3.00 m
Nominal wave period :       6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.38	-0.00	2.14	2.89*	6.68
Wave height Port	[m]	-2.61	-0.01	1.97	2.74	6.55
Wave heading	[deg]	268.95	275.24	279.79	6.40	0.00
Speed	[knots]	0.13	1.40	2.33	0.54	12.38
Surge	[m]	-0.44	0.00	0.55	0.29	10.34
Sway	[m]	-1.20	0.00	1.30	0.85	7.35
Heave	[m]	-0.80	0.68	2.09	1.08	7.34
Roll	[deg]	-18.82	-7.07	-1.73	6.12	15.21
Pitch	[deg]	-0.50	0.50	1.60	0.57	6.93
Yaw	[deg]	-6.32	-1.77	4.51	6.40	0.00
Roll(filt)	[deg]	-17.68	-7.08	-3.55	5.99	19.23
Pitch(filt)	[deg]	0.45	0.50	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 76

```
Ser no      :      2
Run no      :     147
Scale factor :    40.000
Measuring time : 8 min 45 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 3.00 m
Nominal wave period : 6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.50	0.01	2.20	2.99*	6.63
Wave height Port	[m]	-2.63	-0.00	2.02	2.86	6.72
Wave heading	[deg]	266.22	271.95	277.98	7.32	0.00
Speed	[knots]	0.01	1.34	2.33	0.70	12.96
Surge	[m]	-0.45	0.01	0.58	0.32	10.32
Sway	[m]	-1.20	0.00	1.32	0.87	7.27
Heave	[m]	-0.78	0.69	2.11	1.15	7.27
Roll	[deg]	-17.02	-7.04	-1.89	5.80	12.73
Pitch	[deg]	-0.35	0.49	1.39	0.46	6.59
Yaw	[deg]	-6.74	-0.72	5.02	7.32	0.00
Roll(filt)	[deg]	-15.71	-7.03	-3.83	5.61	0.00
Pitch(filt)	[deg]	0.44	0.49	0.55	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 77

```

Ser no           :          2
Run no          :         149
Scale factor     :        40.000
Measuring time   :       12 min 47 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length      :       137.40 m
Wave heading     :       90.00 deg
Water depth      :       102.00 m
Nominal wave height :       3.00 m
Nominal wave period :       6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
<hr/>						
Wave height CL	[m]	-2.73	0.03	2.25	2.93*	6.78
Wave height Port	[m]	-2.35	0.01	2.13	2.83	6.83
Wave heading	[deg]	265.27	272.04	277.68	7.35	0.00
Speed	[knots]	0.02	1.35	2.43	0.66	11.59
Surge	[m]	-0.43	0.01	0.58	0.30	9.82
Sway	[m]	-1.15	-0.00	1.27	0.83	7.29
Heave	[m]	-0.71	0.71	2.08	1.11	7.31
Roll	[deg]	-19.14	-7.27	-2.02	5.62	19.04
Pitch	[deg]	-0.28	0.50	1.46	0.47	6.79
Yaw	[deg]	-6.23	-0.59	6.18	7.35	0.00
Roll(filt)	[deg]	-17.78	-7.27	-3.79	5.51	0.00
Pitch(filt)	[deg]	0.44	0.50	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 78

```
Ser no          :      2
Run no          :     151
Scale factor    :    40.000
Measuring time  :   9 min 25 sec
Sampling frequency :   7.906 Hz
Ship speed (Nominal) :   0.20 knots
Ship length     :   137.40 m
Wave heading    :   90.00 deg
Water depth     :   102.00 m
Nominal wave height :   3.00 m
Nominal wave period :   6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.92	0.00	2.01	2.88*	6.78
Wave height Port	[m]	-3.19	-0.01	1.94	2.80	6.58
Wave heading	[deg]	269.35	274.63	278.34	5.58	0.00
Speed	[knots]	0.01	1.33	2.27	0.63	12.65
Surge	[m]	-0.42	0.01	0.53	0.29	9.27
Sway	[m]	-1.16	0.00	1.26	0.85	7.29
Heave	[m]	-0.76	0.69	2.06	1.09	7.29
Roll	[deg]	-18.30	-6.90	-1.92	5.90	15.22
Pitch	[deg]	-0.47	0.49	1.51	0.54	7.17
Yaw	[deg]	-4.27	-0.56	4.72	5.58	0.00
Roll(filt)	[deg]	-15.87	-6.90	-3.64	5.71	0.00
Pitch(filt)	[deg]	0.44	0.49	0.57	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

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Statistical tables from wave tests

Appendix: 03

Figure: 79

```
Ser no      :      2
Run no      :     153
Scale factor :    40.000
Measuring time : 9 min 39 sec
Sampling frequency : 7.906 Hz
Ship speed (Nominal) : 0.20 knots
Ship length : 137.40 m
Wave heading : 90.00 deg
Water depth : 102.00 m
Nominal wave height : 3.00 m
Nominal wave period : 6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.40	0.01	2.07	2.94*	6.73
Wave height Port	[m]	-2.35	-0.00	2.07	2.81	6.65
Wave heading	[deg]	266.99	272.69	278.31	7.19	6.32
Speed	[knots]	0.00	1.36	2.37	0.74	12.65
Surge	[m]	-0.45	0.01	0.57	0.32	9.65
Sway	[m]	-1.19	-0.00	1.31	0.87	7.31
Heave	[m]	-0.76	0.70	2.11	1.14	7.30
Roll	[deg]	-19.89	-6.85	-1.90	6.34	11.56
Pitch	[deg]	-0.27	0.49	1.37	0.47	6.76
Yaw	[deg]	-6.45	-0.82	4.87	7.19	12.02
Roll(filt)	[deg]	-17.24	-6.84	-3.69	6.10	0.00
Pitch(filt)	[deg]	0.43	0.49	0.56	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 80

```
Ser no      :      2
Run no      :     155
Scale factor :    40.000
Measuring time : 10 min 15 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length  :   137.40 m
Wave heading :    90.00 deg
Water depth  :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.95	0.02	2.06	3.04*	6.67
Wave height Port	[m]	-2.52	0.01	2.10	2.91	6.73
Wave heading	[deg]	266.42	273.32	278.14	6.46	378.21
Speed	[knots]	0.79	1.40	2.33	0.54	12.53
Surge	[m]	-0.47	0.00	0.60	0.31	8.81
Sway	[m]	-1.18	0.00	1.34	0.88	7.38
Heave	[m]	-0.74	0.71	2.09	1.15	7.39
Roll	[deg]	-21.80	-7.37	-2.15	6.48	26.10
Pitch	[deg]	-0.26	0.49	1.31	0.47	6.94
Yaw	[deg]	-5.95	-1.13	5.78	6.46	6.20
Roll(filt)	[deg]	-18.63	-7.35	-3.75	6.23	0.00
Pitch(filt)	[deg]	0.44	0.49	0.59	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 81

```

Ser no          :          2
Run no         :         157
Scale factor    :        40.000
Measuring time  :       9 min 60 sec
Sampling frequency :      7.906 Hz
Ship speed (Nominal) :      0.20 knots
Ship length     :      137.40 m
Wave heading    :      90.00 deg
Water depth     :      102.00 m
Nominal wave height :      3.00 m
Nominal wave period :      6.93 sec
  
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
<hr/>						
Wave height CL	[m]	-2.43	0.01	2.24	3.00*	6.56
Wave height Port	[m]	-2.54	-0.00	2.11	2.86	6.78
Wave heading	[deg]	266.47	274.39	281.38	9.07	0.00
Speed	[knots]	0.00	1.34	2.32	0.66	12.06
Surge	[m]	-0.46	0.01	0.58	0.31	9.82
Sway	[m]	-1.17	0.00	1.35	0.85	7.27
Heave	[m]	-0.75	0.70	2.06	1.11	7.36
Roll	[deg]	-20.98	-7.22	-1.94	6.66	10.16
Pitch	[deg]	-0.46	0.49	1.56	0.58	6.75
Yaw	[deg]	-8.26	-1.27	6.65	9.07	0.00
Roll(filt)	[deg]	-19.58	-7.22	-3.77	6.51	0.00
Pitch(filt)	[deg]	0.44	0.49	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 82

```
Ser no          :          2
Run no          :         159
Scale factor    :        40.000
Measuring time  :       9 min 8 sec
Sampling frequency :       7.906 Hz
Ship speed (Nominal) :       0.20 knots
Ship length     :       137.40 m
Wave heading    :       90.00 deg
Water depth     :       102.00 m
Nominal wave height :       3.00 m
Nominal wave period :       6.93 sec
```

		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.38	0.01	2.10	2.95*	6.78
Wave height Port	[m]	-2.67	-0.01	2.07	2.90	6.78
Wave heading	[deg]	268.04	274.01	278.57	6.71	0.00
Speed	[knots]	0.01	1.33	2.29	0.73	12.97
Surge	[m]	-0.47	0.01	0.59	0.31	10.20
Sway	[m]	-1.21	0.00	1.32	0.87	7.31
Heave	[m]	-0.78	0.69	2.12	1.12	7.21
Roll	[deg]	-19.59	-7.04	-1.79	6.43	11.49
Pitch	[deg]	-0.32	0.49	1.43	0.48	6.82
Yaw	[deg]	-5.55	-0.99	4.98	6.71	0.00
Roll(filt)	[deg]	-17.99	-7.04	-3.58	6.26	0.00
Pitch(filt)	[deg]	0.43	0.49	0.54	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

FLOODSTAND

Statistical tables from wave tests

Appendix: 03

Figure: 83

```

Ser no           :      2
Run no          :     161
Scale factor     :    40.000
Measuring time   :    9 min 25 sec
Sampling frequency :    7.906 Hz
Ship speed (Nominal) :    0.20 knots
Ship length      :   137.40 m
Wave heading     :    90.00 deg
Water depth      :   102.00 m
Nominal wave height :    3.00 m
Nominal wave period :    6.93 sec
  
```

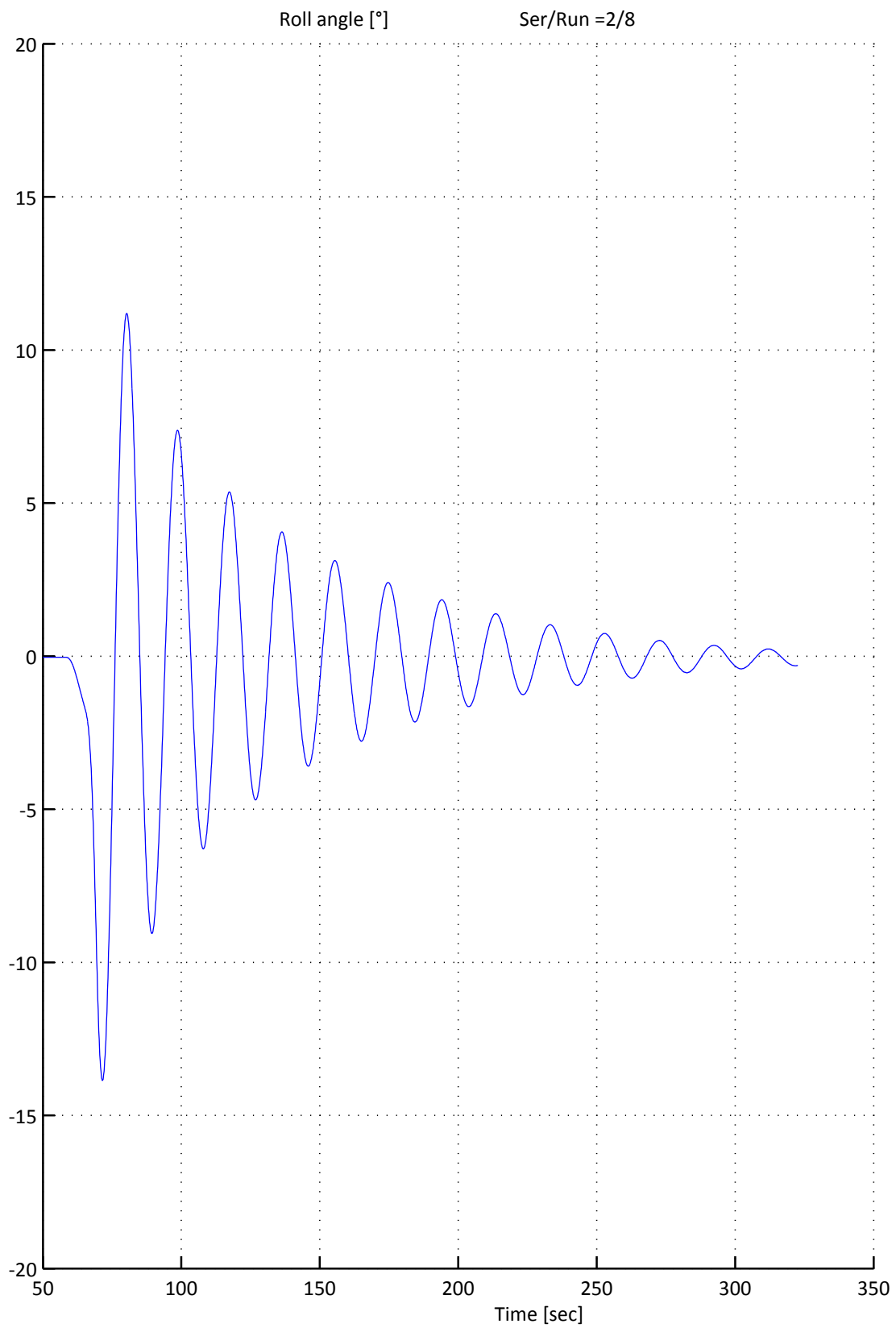
		Minimum Value	Mean Value	Maximum Value	Signif. single ampli- tude	Period of enc. (s)
Wave height CL	[m]	-2.37	0.00	2.02	2.93*	6.82
Wave height Port	[m]	-3.05	-0.01	2.03	2.83	6.62
Wave heading	[deg]	268.07	274.60	279.91	7.54	0.00
Speed	[knots]	0.09	1.32	2.28	0.69	12.62
Surge	[m]	-0.44	0.01	0.57	0.30	9.87
Sway	[m]	-1.18	-0.00	1.31	0.86	7.28
Heave	[m]	-0.77	0.69	2.11	1.11	7.29
Roll	[deg]	-23.48	-7.14	-1.73	7.08	11.47
Pitch	[deg]	-0.44	0.49	1.49	0.54	6.98
Yaw	[deg]	-6.32	-1.00	5.53	7.54	5.95
Roll(filt)	[deg]	-20.42	-7.15	-3.65	6.96	28.33
Pitch(filt)	[deg]	0.43	0.49	0.57	0.06	0.00

Significant single amplitude = 2*standard deviation

* Significant wave height = 4*standard deviation

Table of contents

Figure [no.]	Condition	Content	Speed [knots]	Serie [no.]	Run [no.]
1a	Intact	Plot	0	2	8
1b	Intact	Table	0	2	8
2a	Damage	Plot	0	2	10
2b	Damage	Table	0	2	10



FLOODSTAND

Roll decay tests

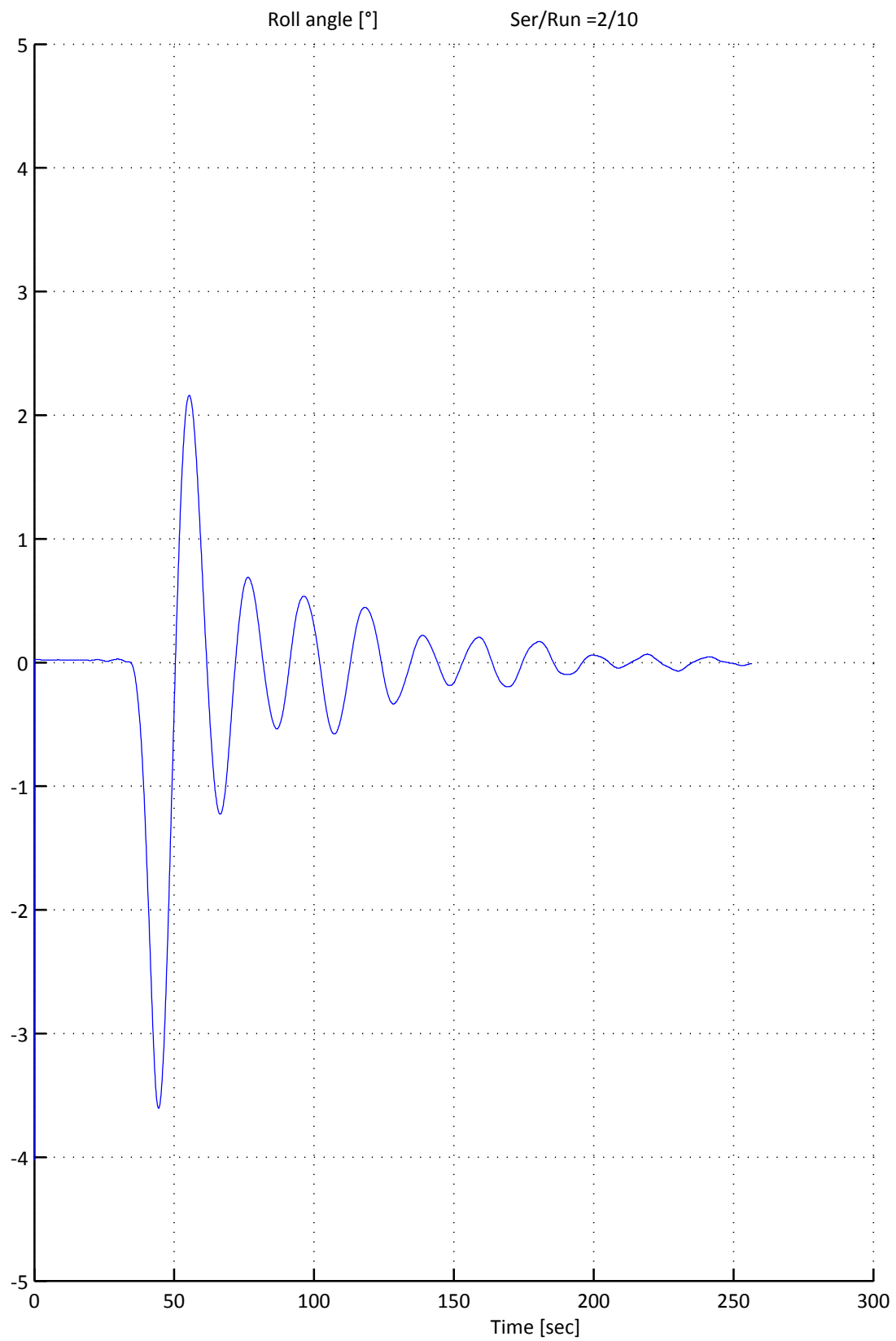
Intact condition

Appendix: 04

Figure 1b

Ser no : 2
Run no : 8
Scale factor : 40.000
Sampling frequency : 7.906 Hz
Ship length : 137.40 m
Water depth : 102.00 m
Mean decay period : 19.28 sec
Mean damping, zeta : 0.0470 -

No	Minima (deg)	Maxima (deg)	Double amplitude (deg)	Damping (-)	Period (sec)
1	-9.06	7.38	16.44		18.34
2	-6.29	5.36	11.66	0.0547	18.85
3	-4.70	4.06	8.76	0.0501	18.97
4	-3.60	3.13	6.72	0.0474	19.10
5	-2.79	2.40	5.19	0.0459	19.35
6	-2.15	1.84	3.99	0.0451	19.35
7	-1.65	1.39	3.04	0.0448	19.48
8	-1.26	1.02	2.29	0.0449	19.61
9	-0.95	0.74	1.70	0.0452	19.61
10	-0.72	0.52	1.23	0.0458	19.61
11	-0.54	0.35	0.89	0.0464	19.61
12	-0.41	0.23	0.65	0.0467	19.48



FLOODSTAND

Roll decay tests

Damage condition

Appendix: 04

Figure 2b

Ser no : 2
Run no : 10
Scale factor : 40.000
Sampling frequency : 7.906 Hz
Ship length : 137.40 m
Water depth : 102.00 m
Mean decay period : 21.39 sec
Mean damping, zeta : 0.0981 -

No	Minima (deg)	Maxima (deg)	Double amplitude (deg)	Damping (-)	Period (sec)
1	-3.61	2.16	5.77		27.20
2	-1.23	0.69	1.92	0.1754	20.11
3	-0.53	0.53	1.07	0.1340	20.24
4	-0.58	0.44	1.02	0.0919	22.14
5	-0.33	0.22	0.56	0.0931	20.11
6	-0.18	0.20	0.39	0.0857	19.48
7	-0.20	0.17	0.36	0.0732	21.88
8	-0.10	0.06	0.16	0.0822	19.99
9	-0.04	0.07	0.12	0.0779	18.47
10	-0.07	0.04	0.12	0.0692	24.29

Table of contents

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]	Static measuring Run no.
1	2.00	5.66	2	5	3
	2.00	5.66	2	32	31
	2.00	5.66	2	34	33
2	2.50	6.32	2	36	35
	2.50	6.32	2	41	39
	2.50	6.32	2	44	42
3	2.50	6.32	2	46	45
	2.50	6.32	2	48	47
	2.50	6.32	2	50	49
4	2.50	6.32	2	52	51
	2.50	6.32	2	54	53
	2.50	6.32	2	56	55
5	2.50	6.32	2	59	58
	2.50	6.32	2	122	121
	2.50	6.32	2	124	123
6	2.50	6.32	2	126	125
	2.50	6.32	2	129	128
	2.50	6.32	2	131	130
7	2.50	6.32	2	133	132
	2.50	6.32	2	135	134
	2.50	6.32	2	137	136
8	2.50	6.32	2	139	138

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]	Static measuring Run no.
8	2.50	6.32	2	141	140
9	2.60	6.45	2	163	162
	2.60	6.45	2	165	164
	2.60	6.45	2	167	166
10	2.60	6.45	2	169	168
	2.60	6.45	2	171	170
	2.60	6.45	2	173	172
11	2.60	6.45	2	175	174
	2.60	6.45	2	177	176
	2.60	6.45	2	179	178
12	2.60	6.45	2	181	180
	2.60	6.45	2	183	182
	2.60	6.45	2	185	184
13	2.60	6.45	2	187	186
	2.60	6.45	2	189	188
	2.60	6.45	2	191	190
14	2.60	6.45	2	193	192
	2.60	6.45	2	195	194
	2.60	6.45	2	197	196
15	2.60	6.45	2	199	198
	2.60	6.45	2	201	200
16	2.75	6.63	2	67	66
	2.75	6.63	2	70	69
	2.75	6.63	2	72	71

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]	Static measuring Run no.
17	2.75	6.63	2	74	73
	2.75	6.63	2	76	75
	2.75	6.63	2	80	79
18	2.75	6.63	2	82	81
	2.75	6.63	2	85	84
	2.75	6.63	2	87	86
19	2.75	6.63	2	89	88
	2.75	6.63	2	91	90
	2.75	6.63	2	103	102
20	2.75	6.63	2	106	105
	2.75	6.63	2	108	107
	2.75	6.63	2	110	109
21	2.75	6.63	2	112	111
	2.75	6.63	2	114	113
	2.75	6.63	2	116	115
22	2.75	6.63	2	118	117
	2.75	6.63	2	120	119
23	3.00	6.93	2	6	3
	3.00	6.93	2	11	9
	3.00	6.93	2	13	12
24	3.00	6.93	2	61	60
	3.00	6.93	2	63	62
	3.00	6.93	2	65	64
25	3.00	6.93	2	93	92

Figure [no.]	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]	Static measuring Run no.
25	3.00	6.93	2	95	94
	3.00	6.63	2	97	96
26	3.00	6.93	2	101	100
	3.00	6.93	2	143	142
	3.00	6.93	2	145	144
27	3.00	6.93	2	147	146
	3.00	6.93	2	149	148
	3.00	6.93	2	151	150
28	3.00	6.93	2	153	152
	3.00	6.93	2	155	154
	3.00	6.93	2	157	156
29	3.00	6.93	2	159	158
	3.00	6.93	2	161	160

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 1

Ser no : 2
Run no : 3
Measuring time : 4 min 44 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.20	-4.18	-4.16
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
Run no : 31
Measuring time : 3 min 37 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.20	-4.12
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
Run no : 33
Measuring time : 4 min 34 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.19	-4.17
Pitch	[deg]	0.44	0.45	0.46

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 2

Ser no : 2
Run no : 35
Measuring time : 4 min 58 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.18	-4.12
Pitch	[deg]	0.45	0.45	0.46

Ser no : 2
Run no : 39
Measuring time : 3 min 50 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.23	-4.21
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
Run no : 42
Measuring time : 5 min 8 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.23	-4.21	-4.19
Pitch	[deg]	0.45	0.45	0.46

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 3

Ser no : 2
Run no : 45
Measuring time : 4 min 31 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.27	-4.25
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 47
Measuring time : 5 min 46 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.28	-4.27
Pitch	[deg]	0.45	0.45	0.46

Ser no : 2
Run no : 49
Measuring time : 3 min 24 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.27	-4.25
Pitch	[deg]	0.45	0.45	0.46

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Static measuring before wave test

Appendix: 05

Figure: 4

Ser no : 2
Run no : 51
Measuring time : 3 min 1 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.26	-4.25	-4.25
Pitch	[deg]	0.46	0.46	0.46

Ser no : 2
Run no : 53
Measuring time : 5 min 25 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.32	-4.30	-4.27
Pitch	[deg]	0.43	0.45	0.47

Ser no : 2
Run no : 55
Measuring time : 5 min 37 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.32	-4.30	-4.29
Pitch	[deg]	0.45	0.45	0.46

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 5

Ser no : 2
Run no : 58
Measuring time : 6 min 40 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.28	-4.25
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 121
Measuring time : 4 min 41 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.28	-4.25	-4.23
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 123
Measuring time : 8 min 26 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.25	-4.24
Pitch	[deg]	0.45	0.46	0.46

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 6

Ser no : 2
Run no : 125
Measuring time : 6 min 10 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.27	-4.25
Pitch	[deg]	0.44	0.46	0.47

Ser no : 2
Run no : 128
Measuring time : 5 min 6 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.30	-4.29
Pitch	[deg]	0.44	0.44	0.44

Ser no : 2
Run no : 130
Measuring time : 4 min 4 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.27	-4.25	-4.23
Pitch	[deg]	0.44	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 7

Ser no : 2
Run no : 132
Measuring time : 14 min 27 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.20	-4.18
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 134
Measuring time : 6 min 33 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.22	-4.20
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
Run no : 136
Measuring time : 3 min 37 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.20	-4.19
Pitch	[deg]	0.45	0.45	0.46

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 8

Ser no : 2
Run no : 138
Measuring time : 5 min 29 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.27	-4.25
Pitch	[deg]	0.42	0.44	0.46

Ser no : 2
Run no : 140
Measuring time : 4 min 28 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.27	-4.24
Pitch	[deg]	0.44	0.45	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 9

Ser no : 2
Run no : 162
Measuring time : 5 min 38 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.23	-4.22
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 164
Measuring time : 5 min 36 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.24	-4.23	-4.22
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 166
Measuring time : 5 min 12 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.22	-4.20
Pitch	[deg]	0.44	0.45	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 10

Ser no : 2
Run no : 168
Measuring time : 8 min 32 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.22	-4.21	-4.21
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 170
Measuring time : 11 min 5 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.28	-4.27	-4.26
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 172
Measuring time : 6 min 46 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.32	-4.31	-4.30
Pitch	[deg]	0.44	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 11

```
Ser no          :          2
Run no          :         174
Measuring time   :    10 min 8 sec
Sampling frequency :    7.906 Hz
Static measuring before test

                Minimum Mean  Maximum
                Value   Value  Value
-----
Roll            [deg]   -4.28  -4.27  -4.27
Pitch           [deg]    0.45   0.45   0.45
```

```
Ser no          :          2
Run no          :         176
Measuring time   :    8 min 21 sec
Sampling frequency :    7.906 Hz
Static measuring before test

                Minimum Mean  Maximum
                Value   Value  Value
-----
Roll            [deg]   -4.34  -4.32  -4.29
Pitch           [deg]    0.42   0.44   0.45
```

```
Ser no          :          2
Run no          :         178
Measuring time   :    5 min 2 sec
Sampling frequency :    7.906 Hz
Static measuring before test

                Minimum Mean  Maximum
                Value   Value  Value
-----
Roll            [deg]   -4.35  -4.34  -4.34
Pitch           [deg]    0.43   0.43   0.44
```

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 12

Ser no : 2
Run no : 180
Measuring time : 5 min 27 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.34	-4.33	-4.33
Pitch	[deg]	0.44	0.44	0.44

Ser no : 2
Run no : 182
Measuring time : 3 min 59 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.35	-4.34	-4.34
Pitch	[deg]	0.44	0.43	0.44

Ser no : 2
Run no : 184
Measuring time : 9 min 55 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.23	-4.21
Pitch	[deg]	0.44	0.45	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 13

Ser no : 2
Run no : 186
Measuring time : 14 min 40 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.24	-4.23
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 188
Measuring time : 22 min 53 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.27	-4.26
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 190
Measuring time : 9 min 54 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.23	-4.23	-4.22
Pitch	[deg]	0.45	0.45	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 14

Ser no : 2
Run no : 192
Measuring time : 8 min 42 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.21	-4.21
Pitch	[deg]	0.45	0.44	0.45

Ser no : 2
Run no : 194
Measuring time : 12 min 9 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.26	-4.25	-4.25
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 196
Measuring time : 8 min 5 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.24	-4.23
Pitch	[deg]	0.44	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 15

Ser no : 2
Run no : 198
Measuring time : 9 min 50 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.25	-4.24
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 200
Measuring time : 17 min 28 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.30	-4.29
Pitch	[deg]	0.44	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 16

Ser no : 2
Run no : 66
Measuring time : 6 min 15 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.28	-4.22
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 69
Measuring time : 3 min 18 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.30	-4.28
Pitch	[deg]	0.43	0.43	0.44

Ser no : 2
Run no : 71
Measuring time : 6 min 10 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.30	-4.29
Pitch	[deg]	0.43	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 17

Ser no : 2
Run no : 73
Measuring time : 10 min 28 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.37	-4.34	-4.31
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 75
Measuring time : 4 min 39 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.39	-4.38	-4.37
Pitch	[deg]	0.44	0.44	0.45

Ser no : 2
Run no : 79
Measuring time : 9 min 52 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.26	-4.22
Pitch	[deg]	0.42	0.43	0.44

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 18

Ser no : 2
Run no : 81
Measuring time : 5 min 22 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.23	-4.21
Pitch	[deg]	0.43	0.44	0.44

Ser no : 2
Run no : 84
Measuring time : 6 min 51 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.27	-4.24	-4.22
Pitch	[deg]	0.44	0.44	0.44

Ser no : 2
Run no : 86
Measuring time : 5 min 11 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.22	-4.20	-4.19
Pitch	[deg]	0.41	0.42	0.43

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 19

Ser no : 2
Run no : 88
Measuring time : 5 min 43 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.33	-4.29	-4.21
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 90
Measuring time : 4 min 50 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.26	-4.25	-4.24
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 102
Measuring time : 5 min 51 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.28	-4.26	-4.23
Pitch	[deg]	0.43	0.43	0.44

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 20

Ser no : 2
Run no : 105
Measuring time : 8 min 40 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.27	-4.26	-4.25
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 107
Measuring time : 12 min 44 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.28	-4.27
Pitch	[deg]	0.42	0.43	0.43

Ser no : 2
Run no : 109
Measuring time : 5 min 5 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.30	-4.29
Pitch	[deg]	0.42	0.43	0.43

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 21

Ser no : 2
Run no : 111
Measuring time : 6 min 46 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.30	-4.29
Pitch	[deg]	0.42	0.42	0.42

Ser no : 2
Run no : 113
Measuring time : 6 min 4 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.30	-4.28	-4.23
Pitch	[deg]	0.43	0.43	0.44

Ser no : 2
Run no : 115
Measuring time : 4 min 38 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.38	-4.31	-4.27
Pitch	[deg]	0.41	0.43	0.44

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 22

Ser no : 2
Run no : 117
Measuring time : 1 min 59 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.38	-4.31	-4.29
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 119
Measuring time : 5 min 9 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.29	-4.27
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
 Run no : 3
 Measuring time : 4 min 44 sec
 Sampling frequency : 7.906 Hz
 Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.20	-4.18	-4.16
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
 Run no : 9
 Measuring time : 4 min 27 sec
 Sampling frequency : 7.906 Hz
 Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.09	-4.04	-4.01
Pitch	[deg]	0.44	0.46	0.47

Ser no : 2
 Run no : 12
 Measuring time : 6 min 60 sec
 Sampling frequency : 7.906 Hz
 Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.43	-4.41	-4.36
Pitch	[deg]	0.45	0.46	0.47

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Static measuring before wave test

Appendix: 05

Figure: 24

Ser no : 2
Run no : 60
Measuring time : 3 min 60 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.29	-4.28
Pitch	[deg]	0.45	0.45	0.45

Ser no : 2
Run no : 62
Measuring time : 6 min 5 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.37	-4.31	-4.27
Pitch	[deg]	0.44	0.45	0.46

Ser no : 2
Run no : 64
Measuring time : 4 min 19 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.42	-4.31	-4.20
Pitch	[deg]	0.43	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 25

Ser no : 2
Run no : 92
Measuring time : 5 min 13 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.33	-4.30	-4.29
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 94
Measuring time : 4 min 14 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.28	-4.27
Pitch	[deg]	0.42	0.43	0.44

Ser no : 2
Run no : 96
Measuring time : 7 min 58 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.34	-4.29	-4.25
Pitch	[deg]	0.43	0.43	0.44

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 26

Ser no : 2
Run no : 100
Measuring time : 8 min 6 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.28	-4.28
Pitch	[deg]	0.44	0.44	0.44

Ser no : 2
Run no : 142
Measuring time : 6 min 2 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.23	-4.22
Pitch	[deg]	0.44	0.45	0.45

Ser no : 2
Run no : 144
Measuring time : 9 min 13 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.28	-4.25	-4.23
Pitch	[deg]	0.44	0.44	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 27

Ser no : 2
Run no : 146
Measuring time : 7 min 29 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.26	-4.22	-4.17
Pitch	[deg]	0.43	0.43	0.44

Ser no : 2
Run no : 148
Measuring time : 4 min 42 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.29	-4.25	-4.21
Pitch	[deg]	0.43	0.44	0.46

Ser no : 2
Run no : 150
Measuring time : 4 min 34 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.25	-4.24	-4.22
Pitch	[deg]	0.42	0.43	0.45

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 28

Ser no : 2
Run no : 152
Measuring time : 4 min 33 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.21	-4.20	-4.18
Pitch	[deg]	0.43	0.43	0.44

Ser no : 2
Run no : 154
Measuring time : 6 min 18 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.31	-4.23	-4.13
Pitch	[deg]	0.44	0.44	0.44

Ser no : 2
Run no : 156
Measuring time : 7 min 9 sec
Sampling frequency : 7.906 Hz
Static measuring before test

		Minimum Value	Mean Value	Maximum Value
Roll	[deg]	-4.27	-4.26	-4.25
Pitch	[deg]	0.43	0.43	0.44

FLOODSTAND

Static measuring before wave test

Appendix: 05

Figure: 29

Ser no	:	2		
Run no	:	158		
Measuring time	:	5 min 19 sec		
Sampling frequency	:	7.906 Hz		
Static measuring before test				
		Minimum Value	Mean Value	Maximum Value

Roll	[deg]	-4.37	-4.31	-4.25
Pitch	[deg]	0.44	0.44	0.44

Ser no	:	2		
Run no	:	160		
Measuring time	:	4 min 13 sec		
Sampling frequency	:	7.906 Hz		
Static measuring before test				
		Minimum Value	Mean Value	Maximum Value

Roll	[deg]	-4.29	-4.27	-4.23
Pitch	[deg]	0.42	0.43	0.45

Table of contents

DVD label	View		Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
Hs 2m	Bow and Stern		2.00	5.66	2	32
Hs 2m	Bow and Stern		2.00	5.66	2	34
Hs 2m	Bow and Stern		2.00	5.66	2	5
Hs 2.5m	Side	Bow	2.50	6.32	2	36
Hs 2.5m	Side	Bow	2.50	6.32	2	41
Hs 2.5m	Side	Bow	2.50	6.32	2	44
Hs 2.5m	Side	Bow	2.50	6.32	2	46
Hs 2.5m	Side	Bow	2.50	6.32	2	48
Hs 2.5m	Side	Bow	2.50	6.32	2	50
Hs 2.5m	Side	Bow	2.50	6.32	2	52
Hs 2.5m	Side	Bow	2.50	6.32	2	54
Hs 2.5m	Side	Bow	2.50	6.32	2	56
Hs 2.5m	Side	Bow	2.50	6.32	2	59
Hs 2.5m	Side	Bow	2.50	6.32	2	122
Hs 2.5m	Side	Bow	2.50	6.32	2	124
Hs 2.5m	Side	Bow	2.50	6.32	2	126
Hs 2.5m	Side	Bow	2.50	6.32	2	129
Hs 2.5m	Side	Bow	2.50	6.32	2	131
Hs 2.5m	Side	Bow	2.50	6.32	2	133
Hs 2.5m	Side	Bow	2.50	6.32	2	135
Hs 2.5m	Side	Bow	2.50	6.32	2	137
Hs 2.5m	Side	Bow	2.50	6.32	2	139

DVD label	View		Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
Hs 2.5m	Side	Bow	2.50	6.32	2	141
Hs 2.6m	Side	Bow	2.60	6.45	2	163
Hs 2.6m	Side	Bow	2.60	6.45	2	165
Hs 2.6m	Side	Bow	2.60	6.45	2	167
Hs 2.6m	Side	Bow	2.60	6.45	2	169
Hs 2.6m	Side	Bow	2.60	6.45	2	171
Hs 2.6m	Side	Bow	2.60	6.45	2	173
Hs 2.6m	Side	Bow	2.60	6.45	2	175
Hs 2.6m	Side	Bow	2.60	6.45	2	177
Hs 2.6m	Side	Bow	2.60	6.45	2	179
Hs 2.6m	Side	Bow	2.60	6.45	2	181
Hs 2.6m	Side	Bow	2.60	6.45	2	183
Hs 2.6m	Side	Bow	2.60	6.45	2	185
Hs 2.6m	Side	Bow	2.60	6.45	2	187
Hs 2.6m	Side	Bow	2.60	6.45	2	189
Hs 2.6m	Side	Bow	2.60	6.45	2	191
Hs 2.6m	Side	Bow	2.60	6.45	2	193
Hs 2.6m	Side	Bow	2.60	6.45	2	195
Hs 2.6m	Side	Bow	2.60	6.45	2	197
Hs 2.6m	Side	Bow	2.60	6.45	2	199
Hs 2.6m	Side	Bow	2.60	6.45	2	201
Hs 2.75m	Side	Bow	2.75	6.63	2	67
Hs 2.75m	Side	Bow	2.75	6.63	2	70
Hs 2.75m	Side	Bow	2.75	6.63	2	72

DVD label	View		Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
Hs 2.75m	Side	Bow	2.75	6.63	2	74
Hs 2.75m	Side	Bow	2.75	6.63	2	76
Hs 2.75m	Side	Bow	2.75	6.63	2	80
Hs 2.75m	Side	Bow	2.75	6.63	2	82
Hs 2.75m	Side	Bow	2.75	6.63	2	85
Hs 2.75m	Side	Bow	2.75	6.63	2	87
Hs 2.75m	Side	Bow	2.75	6.63	2	89
Hs 2.75m	Side	Bow	2.75	6.63	2	91
Hs 2.75m	Side	Bow	2.75	6.63	2	103
Hs 2.75m	Side	Bow	2.75	6.63	2	106
Hs 2.75m	Side	Bow	2.75	6.63	2	108
Hs 2.75m	Side	Bow	2.75	6.63	2	110
Hs 2.75m	Side	Bow	2.75	6.63	2	112
Hs 2.75m	Side	Bow	2.75	6.63	2	114
Hs 2.75m	Side	Bow	2.75	6.63	2	116
Hs 2.75m	Side	Bow	2.75	6.63	2	118
Hs 2.75m	Side	Bow	2.75	6.63	2	120
Hs 3m	Bow and Side		3.00	6.93	2	6
Hs 3m	Bow and Side		3.00	6.93	2	61
Hs 3m	Bow and Side		3.00	6.93	2	63
Hs 3m	Bow and Side		3.00	6.93	2	65
Hs 3m	Bow and Side		3.00	6.93	2	11
Hs 3m	Bow and Side		3.00	6.93	2	13
Hs 3m	Bow and Side		3.00	6.93	2	93

DVD label	View	Wave height [m]	Spectral peak period [sec]	Serie [no.]	Run [no.]
Hs 3m	Bow and Side	3.00	6.93	2	95
Hs 3m	Bow and Side	3.00	6.63	2	97
Hs 3m	Bow and Side	3.00	6.93	2	101
Hs 3m	Bow and Side	3.00	6.93	2	143
Hs 3m	Bow and Side	3.00	6.93	2	145
Hs 3m	Bow and Side	3.00	6.93	2	147
Hs 3m	Bow and Side	3.00	6.93	2	149
Hs 3m	Bow and Side	3.00	6.93	2	151
Hs 3m	Bow and Side	3.00	6.93	2	153
Hs 3m	Bow and Side	3.00	6.93	2	155
Hs 3m	Bow and Side	3.00	6.93	2	157
Hs 3m	Bow and Side	3.00	6.93	2	159
Hs 3m	Bow and Side	3.00	6.93	2	161

Sampling rate (model scale): 50 Hz

Sampling rate (full scale = $50/\sqrt{40}$) : 7.906 Hz

All variables are stored in full scale units in the *.asc files with time step $\sqrt{40}/50$ sec.

Ordinary capsizing tests are stored in the folder **Timeseries** in columns according to below:

Column no	Channel	Unit
1	Wave height CL	[m]
2	Wave height Port	[m]
3	Wave heading	[deg]
4	Speed	[knots]
5	Surge	[m]
6	Sway	[m]
7	Heave	[m]
8	Roll	[deg]
9	Pitch	[deg]
10	Yaw	[deg]
11	Roll(filt)	[deg]
12	Pitch(filt)	[deg]

Static measuring tests are stored in the folder **TimeseriesSM** in columns according to below:

Column no	Channel	Unit
1	Roll	[deg]
2	Pitch	[deg]

Roll decay tests are stored in the folder **TimeseriesDecay** in columns according to below:

Column no	Channel	Unit
1	Roll	[deg]