



Rampion Offshore Wind Farm



ES Section 6 – Physical Environment Appendix 6.2

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Rampion Offshore Wind Farm Metocean Survey and Assessment

Operational Reference Document

For:



**E.ON Climate and Renewables UK
Rampion Offshore Wind Limited**

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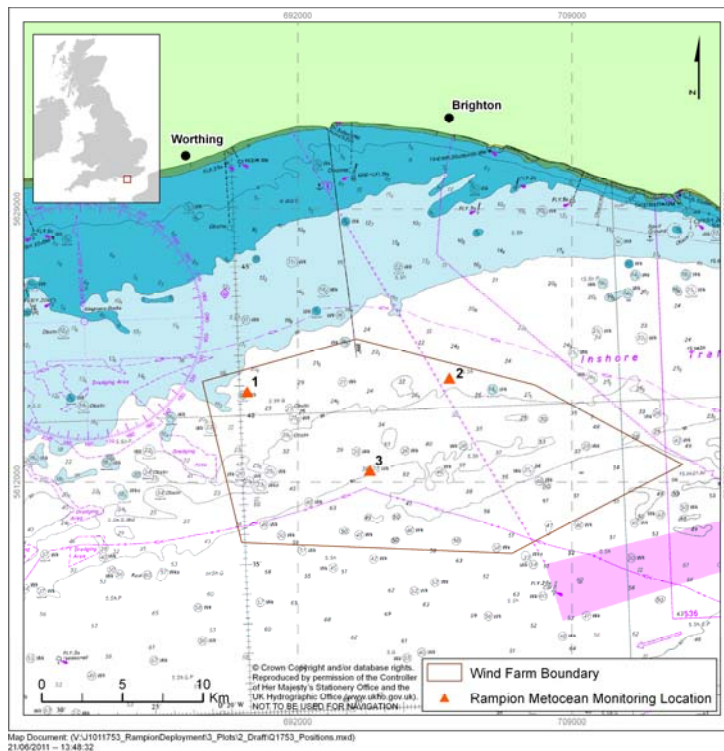


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Results Summary



The analyses presented in this report incorporate two groups of data:

- Data collected as part of the metocean survey of the Rampion Offshore Wind Farm Site
- Relevant third party datasets local to the site

A summary of the extreme conditions expected at each of the three metocean survey measurement locations is presented below.

Figure 0.1 Survey Locations Within Site Boundary

Location 1 (western extent of development area)

Return Period	Hs (m)	Hmax (m)	Tz (s)	Tp (s)	Positive Residual (m)	Negative Residual (m)	Depth Averaged Flood Current Velocity (m/s)	Depth Averaged Ebb Current Velocity (m/s)
1 4.4		8.0	7.1	9.2	0.95	0.63	1.53	0.92
10 5.0		9.3	7.8	10.2	1.11	0.73	1.67	0.99
50 5.5		10.1	8.5	11.1	1.22	0.79	1.76	1.03
100 5.6		10.4	8.6	11.5	1.27	0.81	1.80	1.05

Table 0.1 Summary of Extreme Conditions at Location 1

Location 2 (eastern extent of development area)

Return Period	Hs (m)	Hmax (m)	Tz (s)	Tp (s)	Positive Residual (m)	Negative Residual (m)	Depth Averaged Flood Current Velocity (m/s)	Depth Averaged Ebb Current Velocity (m/s)
1 4.4		7.6	7.1	9.2	0.95	0.63	1.48	0.98
10 5.0		8.8	7.8	10.2	1.11	0.73	1.63	1.07
50 5.4		9.6	8.4	11.0	1.22	0.79	1.72	1.13
100 5.5		9.8	8.5	11.1	1.27	0.81	1.76	1.15

Table 0.2 Summary of Extreme Conditions at Location 2

Location 3 (southern extent of development area)								
Return Period	Hs (m)	Hmax (m)	Tz (s)	Tp (s)	Positive Residual (m)	Negative Residual (m)	Depth Averaged Flood Current Velocity (m/s)	Depth Averaged Ebb Current Velocity (m/s)
1 4.9		9.1	7.8	10.0	0.95	0.63	1.57	1.28
10 5.6		10.5	8.6	11.5	1.11	0.73	1.71	1.39
50 6.1		11.4	9.3	12.4	1.22	0.79	1.80	1.47
100 6.2		11.7	9.4	12.7	1.27	0.81	1.84	1.50

Table 0.3 Summary of Extreme Conditions at Location 3

Return Period	Wind Speed 10m A.S.L (m/s)	Wind Speed 100m A.S.L (m/s)
1 24.0		30.1
10 26.8		33.6
50 28.5		35.8
100 29.2		36.7

Table 0.4 Summary of Extreme Wind Speed Values in the Rampion Site

Observations from Metocean Survey Locations 1, 2 and 3 and the ASLF AWAC Deployment				
Astronomical Statistics	L1	L2	L3	ASLF AWAC
HAT (m)	6.80	7.21	6.62	6.30
MHWS (m)	6.10	6.39	5.96	5.60
MHWN (m)	4.78	4.99	4.62	4.37
MSL (m)	3.38	3.54	3.21	3.09
MLWN (m)	1.99	2.08	1.81	1.80
MLWS (m)	0.67	0.68	0.46	0.57
LAT (m)	0.00	0.00	0.00	0.00
MSR (m)	5.43	5.71	5.50	5.04
MR (m)	4.11	4.31	4.15	3.80
MNR (m)	2.80	2.91	2.81	2.56
MHWI (hours)	10.94	10.92	10.93	10.98
MLWI (hours)	17.16	17.33	17.32	17.25
Maximum Observed Positive Residual (Surge) (m)	0.51	0.51	0.54	0.33
1 Year Crest Height to LAT	10.4	10.5	10.8	-
10 Year Crest Height to LAT	11.1	11.2	11.6	-
50 Year Crest Height to LAT	11.5	11.6	12.1	-
100 Year Crest Height to LAT	11.7	11.8	12.3	-

Table 0.5 Water Level Statistics

Depth Averaged Current Statistics	Location 1	Location 2	Location 3
Metonic Maximum Speed (m/s)	1.1	1.1	1.2
Mean Spring Rate (m/s)	0.8	0.7	0.9
Mean Neap Rate (m/s)	0.4	0.4	0.5
Bearing Flood/Ebb (°T)	67/247	59/239	61/241
Mean Drift (m/s)	0.009	0.039	0.028
Bearing of Mean Drift (°T)	96	9	32
Maximum Observed Depth Average Residual Velocity (m/s)	0.52 0.51	0.52	

Table 0.6 Depth Averaged Current Statistics

In comparison to the values presented above, the values indicated by the HSE's Offshore Technology Report (2001) are:

50 Year Hs – Approximately 8m

50 Year Hourly Wind Speed at 10m Above Sea Level – Approximately 32 m/s

However, it must be noted that this report was published in 2001, prior to the installation of the national wave monitoring networks.

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Compliance Matrix – Contract Technical Specification - Operational Reference Document

Contract Specification Paragraph No	Requirement	Location of Deliverable
2.1.6 Item I	Overview of regional metocean processes (seasonal effects, likely ‘worst-case’ processes etc.).	Summary of Results
2.1.6 Item II	Monthly and all-year mean and maximum wind speed, wave height, current speed (in profile), and sea surface and sea bed temperatures.	Section 4
2.1.6 Item III	Monthly or seasonal joint occurrence statistics (wind speed/direction, significant wave height/mean wave direction, significant wave height/mean wave zero-crossing period, current speed/direction).	Wind Speed/Direction: Tables D002-D013, H _s /Direction and H _s /T _z : Appendix A for Rustington and Hastings. Metocean Survey report for Locations 1-3. Current speed/direction: Tables C007-C018
2.1.6 Item IV	Monthly and all-year percentage exceedance statistics for wind speed, wave height and current speed.	Appendices D, A and C
2.1.6 Item V	Directional all year percentage exceedance statistics for wind speed, wave height and current speed.	Appendices D, A and C
2.1.6 Item VI	Monthly or seasonal persistence statistics (favourable and unfavorable) for wind speed, wave height and current speed.	Appendices D, A and C
2.1.6 Item VII	Description of characteristic wave spectra (indicating the occurrence of swell energy).	Section 4.1.1 and Appendix E

Compliance Matrix – Ramboll Offshore Wind “Required Metocean Data”

Ramboll Guidelines Paragraph No	Requirement	Location of Deliverable
4.2	Joint Event Table	Metocean Survey Report
7	Astronomical Statistics	Section 4.2
7	Extreme High and Low Water Levels	Section 4.2
7	Extreme Current Speed and Direction Figures	C001-C006
8.2 Wind	Rose	Appendix D (various data sources)
8.2	Wind Speed vs. Wind Direction Frequency Table	Appendix D (various data sources)
9.1	Extreme Wave Parameters	Section 4.1
9.1.1 and 9.2.4	Spatial Variation in Wave Parameters - Discussion	Metocean Survey Report
9.1.1	Wave Breaking - Discussion	Metocean Survey Report
9.1.2 and 9.2.5	Variations in Wave Parameters with Current Speed and Water Level	Metocean Survey Report
9.2.1 Wave	Rose	Appendix A for wave roses from Rustington and Hastings. For Locations 1 – 3 see Metocean Survey Report
9.2.1	Wave Direction vs. Wind Direction Frequency Distribution	Metocean Survey Report
9.2.2	Wave Height vs. Wave Direction Frequency Distribution	Appendix A for Rustington and Hastings. For Locations 1 – 3 see Metocean Survey Report
9.2.2	Wave Height vs. Wave and Wind Direction	Metocean Survey Report
9.2.2	Wave Height vs. Wind Speed Distribution	Metocean Survey Report
9.2.3	Wave Height vs. Wave Period Frequency Distributions	Appendix A for Rustington and Hastings. For Locations 1 – 3 see Metocean Survey Report
9.3	Wave Height Persistence and Exceedance per Month	Table A004-A015 and A016-A027 for Rustington. Tables A043-A054 and A055-A066 for Hastings.

Definitions

Term	Definition
ALSF	Aggregate Levy Sustainability Fund
ASL	Above sea level
AWAC	Acoustic Wave and Current Meter
Bimodal	Has two modes. With reference to wave spectra; a bimodal sea is one with two peaks in energy at different periods and/or directions
CCO Cha	nnel Coastal Observatory
Cefas	Centre for Environment, Fisheries and Aquaculture Science
Hodogram	Diagram showing percentage occurrence per direction bin. Also known as Rose Plot
Met Office	UK Meteorological Office
Metonic Maximum	Maximum value predicted to occur in an 19 year celestial cycle
NTSLF	National Tide and Sea Level Facility
OBS	Optical Backscatter Sensor
Water Level Statistics	
CD Cha	rt Datum
Crest Height	A measure of total water level defined as tide height + surge + $0.6 \times H_{\max}$
SWL	Still Water Level
HAT	Highest Astronomical Tide
MHWS	Mean High Water Springs
MHWN	Mean High Water Neaps
MSL	Mean Sea Level
MLWN	Mean Low Water Neaps
MLWS	Mean Low Water Springs
LAT	Lowest Astronomical Tide
MSR Mean	Spring Range
MR Mean	Range
MNR Mean	Neap Range
MHWI	Mean High Water Interval – time between high water at Greenwich and high water at measurement site
MLWI	Mean Low Water Interval – time between high water at Greenwich and low water at measurement site
Positive residual	The component of water level above the level of astronomical tide (surge)
Negative residual	The component of water level below the level of astronomical tide (surge)
Wave Statistics	
H_s	Significant Wave Height – An average of the largest third of the wave heights observed in the measurement period
$H_{\max}$	Maximum wave height observed during the measurement period
T_z	Zero-Up Crossing Period – Time between zero-crossings
T_p	Peak Period – The period of the waves which represent the peak in spectral energy
$T_{\max}$	Period of the Maximum Wave – Period associated with the largest observed wave

1 INTRODUCTION

In October 2010, EMU Limited (EMU) was contracted by E.ON Climate and Renewables UK (E.ON) to undertake an assessment of the metocean conditions of the proposed Rampion Offshore Wind Farm Zone, situated approximately 12 nautical miles off the south coast of England.

The deliverables of this contract consist of:

- A desktop assessment to produce an Operational Reference Document (this document)
- The Metocean Survey Report (EMU report number 11/J/1/01/1743/1156)
- Data files

The project included a comprehensive data collection programme, which is detailed in the Metocean Survey report. The analyses presented in this document incorporate the survey datasets from Locations 1, 2 and 3 in addition to third party data sets. The aim of the document is to provide information on the metocean design criteria to be used by engineers during the development of the wind farm. For further details of the data sources used, please refer to Section 2 (Data Sources).

2 DATA SOURCES

The contributing data sources for this assessment are outlined below. Table 2.1 shows the data range for each source, and Figure 2.1 shows the relative locations.

- a) Tidal elevation, current and wave data collected by EMU at Locations 1, 2 and 3 within the Rampion Zone. The data were collected by Nortek Acoustic Wave and Current Meters
- b) Meteorological data collected by EMU at Location 3 using a meteorological buoy
- c) Rustington – Wave data collected using a Datawell Directional Waverider Mark III at the Channel Coastal Observatory's Rustington site. Data available from www.channelcoast.org
- d) Seaford - Wave data collected using a Datawell Directional Waverider Mark III at the Channel Coastal Observatory's Seaford site. Data available from www.channelcoast.org
- e) Arun Platform – Tidal elevation data collected using a Valeport 730W at the Channel Coastal Observatory's Arun Platform site. Data available from www.channelcoast.org
- f) Worthing - Meteorological data from the Channel Coastal Observatory's land based meteorological station on Worthing Pier. Data available from www.channelcoast.org
- g) Newhaven - The National Tide and Sea Level Facility dataset from Newhaven. Data available from www.pol.ac.uk/ntslf
- h) Hastings – Wave data collected using a Datawell Directional Waverider Buoy from the Hastings Cefas Wavenet site. Data available from <http://www.cefas.defra.gov.uk/our-science/observing-and-modelling/monitoring-programmes/wavenet.aspx>
- i) Rampion 1 - Virtual met mast data, a model output from the Met Office
- j) Rampion 2 – Virtual met mast data, a model output from the Met Office
- k) ALSF AWAC – Current and tidal elevation data collected by EMU on behalf of the Aggregate Levy Sustainability Fund. Permission granted for use within the scope of this project by Gareth Watkins, the National Marine ALSF Advisor

Table 2.2 on page 5 shows the temporal range of the data sources used. A table detailing all gaps greater than 24 hours is presented in Appendix F.

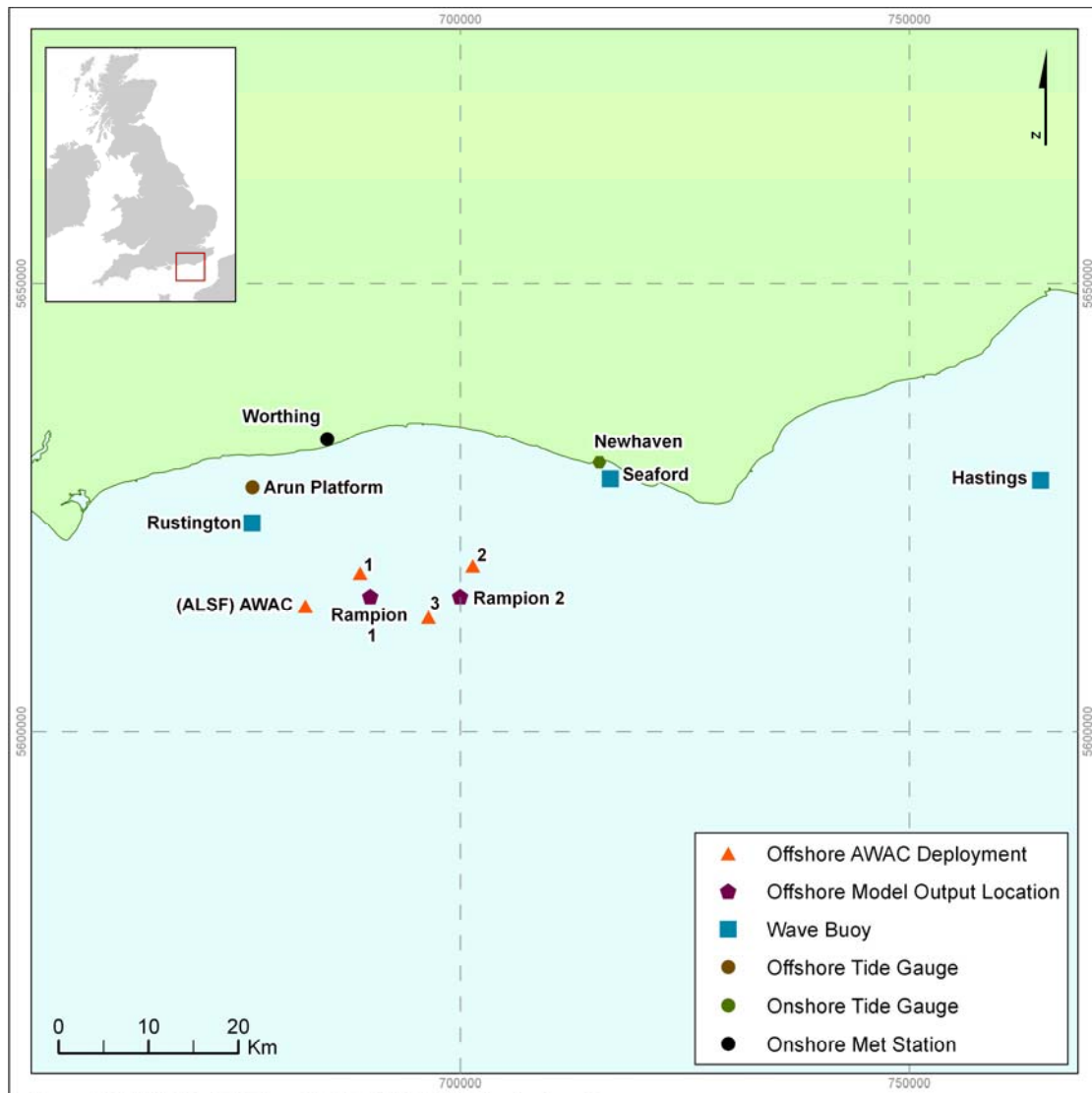


Figure 2.1 Positions of Data Sources

Data Source	Latitude	Longitude	Type	Water Depth
Rampion Metocean Monitoring Location 1	50°40.80'N	000°19.60'W	Offshore AWAC deployment	25m to LAT
Rampion Metocean Monitoring Location 2	50°41.00'N	000° 08.94'W	Offshore AWAC deployment	26m to LAT
Rampion Metocean Monitoring Location 3	50°38.00'N	000°13.30'W	Offshore AWAC deployment	49m to LAT
Rustington 50°4	4.05'N	000°29.65'W	Wave buoy	Approx 10m to CD
Seaford 50°4	5.90'N	000°04.40'E	Wave buoy	Approx 10m to CD
Arun Platform	50°46.20'N	000°29.50'W	Offshore tide gauge	Approx 5m to CD
Hastings 56°4	4.63'N	000°45.07'E	Wave buoy	36m (Datum unknown)
Worthing 50°4	8.42'N	000°22.13'W	Onshore met station	
Newhaven 50°4	6.91'N	000°03.42'E	Onshore tide gauge	
Met Office Model Location "Rampion 1"	50°39.35'N	000°18.72'W	Offshore model output location	
Met Office Model Location "Rampion 2"	50°39.15'N	000°10.23'W	Offshore model output location	
Aggregate Sustainability Levy Fund (ASLF) AWAC	50°38.93'N	000° 24.89'W	Offshore AWAC deployment	31m to LAT

Table 2.1 Positions of Data Sources

Name	Start Date	End Date
Location 1 Tidal elevation 01/11/20	10	06/01/2011
Location 1 Currents	01/11/2010 06/01/20	11
Location 1 Waves	01/11/2010	06/01/2011
Location 2 Tidal elevation 01/11/20	10	18/02/2011
Location 2 Currents	01/11/2010 21/12/20	11
Location 2 Waves	01/11/2010	18/02/2011
Location 3 Tidal elevation 01/11/20	10	10/05/2011
Location 3 Currents	01/11/2010 10/05/20	11
Location 3 Waves	01/11/2010	10/05/2011
Location 3 Meteorological 25/01/20	11	10/05/2011
Rustington 15/07/20	03	12/05/2011
Seaford 22/01/20	08	31/12/2010
Arun Platform	13/05/2008	08/11/2010
Hastings 27/11/20	02	23/02/2011
Worthing 14/07/20	10	04/05/2011
Newhaven 01/01/19	93	31/07/2010
Rampion 1	01/01/2006	28/07/2010
Rampion 2	01/01/2006	28/07/2010
ALSF AWAC	09/04/2006	09/05/2006

Table 2.2 Summary of Data Ranges

3 METHODOLOGY

The 1, 10, 50 and 100 year return periods presented herein were derived by fitting the datasets to a Weibull probability distribution. For the purposes of extreme event analysis using Weibull distributions, it is best practice to use datasets at least 1/5th the length of the return period one is aiming to predict. Typically, a greater number of observations will lead to a better fit to the Weibull distribution. Therefore, the approach was taken to investigate long-term datasets available from near the Rampion Offshore Wind Farm Zone. Following this, investigations were made into the relationships that could be drawn between the long-term datasets and the observations taken within the zone during the metocean survey. Once regression equations had been established between the long term datasets and the survey datasets, the return period values taken from the long-term datasets could be transformed to representative values at the survey locations.

3.1 Sources of Error

The principal source of error in the methodologies used in this study is poor fit to the Weibull Distribution. The fit to the distribution depends (in part) on data type. Where data types do not naturally conform to a Rayleigh distribution but are instead normally distributed, the fit to the Weibull distribution will be poor. Some parameters may be limited in their range of values by the physical constraints of the environment. This is often the case with wave data, where the maximum possible wave height is limited by the water depth. A poor fit to the distribution may also be caused by the use of a dataset which is too short to be suitable for extreme event extrapolation. Generally, the fit to the distribution may be improved by removing values at the lower end of the data range. This forces the best fit line closer to the upper part of the distribution. Where multiple methods or datasets have been used to derive the extreme values, all results are presented in Section 4 (Results) in order to give a range of values as an indication of the magnitude of error produced by these calculations. We estimate that the typical magnitude of error is 10%.

3.2 Wave Data

In order to find the long term dataset which best represents the conditions within the wind farm zone, regressions were drawn up between the survey locations and three datasets (Rustington, Seaford and Hastings). The relationship between Seaford and the survey locations displayed the weakest correlation. The Seaford site is sheltered from the east and so is not representative of the full range of conditions experienced within the wind farm zone.

Both Rustington and Hastings datasets show a close correlation with the survey dataset collected at Locations 1, 2 and 3. The Hastings Waverider buoy is moored in approximately 30m water depth and so may be considered more appropriate as the principal dataset than the Rustington buoy moored in approximately 10 m water depth. However, due to the telemetry method used by the Cefas Wavenet buoys, the Hastings site does not report maximum wave height (H_{max}) values. The Rustington buoy is closer to the wind farm zone, as shown in Figure 2.1. and located slightly further west.

From studies of the CCO network of wave measurement sites, we have seen that bimodal events occur as far east as the Folkestone CCO site (Mason *et al* 2008)¹. Bimodal events were observed at the survey locations, but the energy peak was attributed to wind waves in each case. (please refer to section 3.2.1 for further details). On account of this decrease in long-period swell energy to the east within the English Channel, the peak period (T_p) correlation is stronger between Hastings and the survey data than between Rustington and

¹ Mason T, Bradbury A, Poate, T & Newman R (2008). Nearshore wave climate of the English Channel – evidence for bi-modal seas. *Proc. International Conference on Coastal Engineering, Hamburg*

the survey data. This is illustrated by the regression plots presented in Appendix A (Figures A017-A019 and A038 – A040).

Following examination of the relationships between the long term datasets and the survey datasets, regression equations for H_s and H_{max} were used to convert these parameters (as derived from the long term datasets) to representative values at Locations 1, 2 and 3. The associated T_z and T_p values were derived using regressions of H_s against period for the long term datasets. In the case of Hastings, there are no H_{max} observations available. Therefore, the values for Locations 1, 2 and 3 have been calculated using the ratio of H_s to H_{max} at those locations.

Results are presented in Section 4.1 (Results, Wave Data) for the methodology described above, using both the Rustington and the Hastings datasets. This was intended to provide a range of values as an indicator of the magnitude of error produced by these calculations.

The values derived using Rustington as the principal data set have been selected to be presented in the results summary tables (Tables 0.1, 0.2 and 0.3) as they represent the “worst case”.

3.3 Water Levels

3.3.1 Crest Height

Two separate methodologies have been used to derive the crest height return period values. The first method was simply to plot the observational data from Locations 1, 2 and 3 as a Weibull Distribution. The crest height values are calculated during the wave processing and are defined as:

$$\text{Crest Height} = \text{Tide height} + \text{surge} + (0.6 \times H_{\max})$$

The crest height values were compared with the maximum recorded acoustic range of the instrument in order to validate the calculation. The relationship was 1:1.

The second method was to create a longer time series of crest height records by amalgamating long term wave and tidal datasets. The wave data from Rustington were added to tidal predictions from Locations 1, 2 and 3 to produce three synthesised time series of almost 8 years in length. These data were then fitted to a Weibull distribution to predict values for the return periods required.

The results from both methods are presented in Section 4.2.

3.4 Currents

In order to produce the extreme current values by direction, as requested in the Ramboll guidelines, the current observations were divided into two directional bins representing the flood and ebb. The separate time series were then plotted on separate Weibull distributions. These values, representing the total velocity (tidal + non-tidal components) are presented as part of the summary tables (Tables 0.1, 0.2 and 0.3). The statistics derived from the harmonic analyses of the current observations are presented in Section 4.3, Currents.

3.5 Meteorological Data

The principal meteorological dataset available to this project were two time series of Met Office “Virtual Met Mast” data of approximately 4 years, 7 months in length. Data were provided for 6 heights above sea level. The data for 10m above sea level were extrapolated using the following equation (Kaltschmitt et al 2007)²:

$$v_w(h) = v_{10} \cdot \left(\frac{h}{h_{10}} \right)^{\alpha}$$

Where:

$v_w(h)$ = velocity of the wind at height, h [m/s]
 v_{10} = velocity of the wind at height, $h_{10} = 10$ metres [m/s]
 α = Hellman exponent

3.6 Sea Temperature

Near-seabed temperature data were collected during the metocean monitoring programme, and the data are presented by month. In order to show the year-round temperature trend, these are supplemented by sea surface temperature statistics from Rustington and Seaford wave buoys.

² Kaltschmitt, M., Streicher, W. and Wiese, A. (2007) *Renewable Energy: Technology, Economics and Environment*. Springer ISBN 3540709479, 9783540709473, page 55.

4 RESULTS

4.1 Wave data

For monthly statistics from Locations 1, 2 and 3 please refer to the Metocean Survey Report. The Rustington dataset is presented here, in order to provide an indication of the seasonal variability.

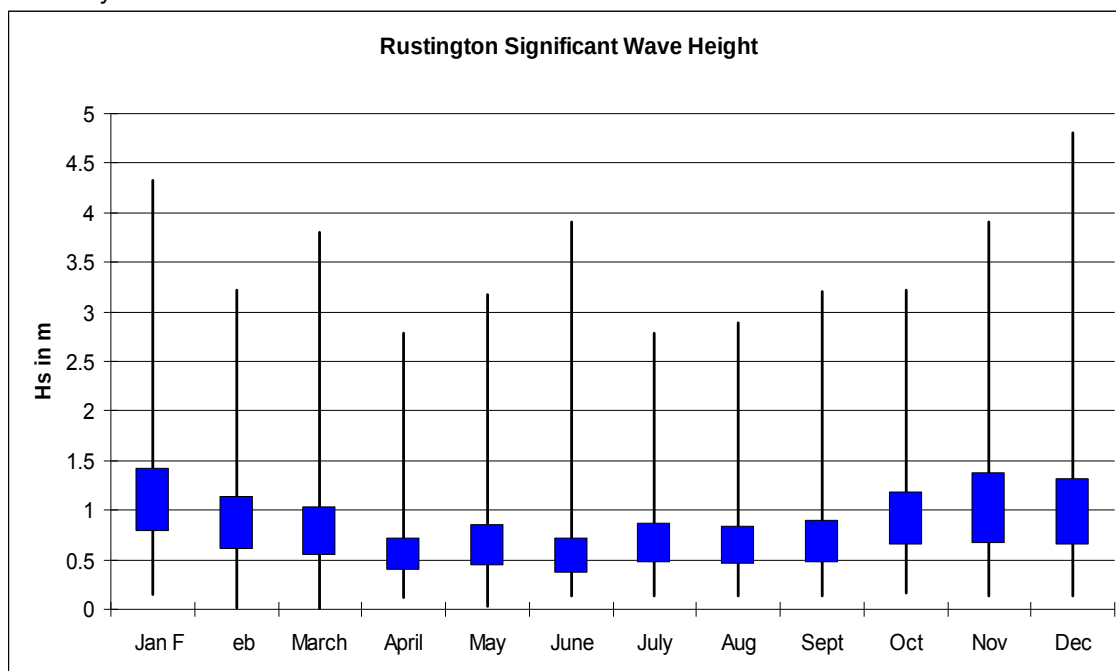


Figure 4.1.1 Significant Wave Height by Month at Rustington³

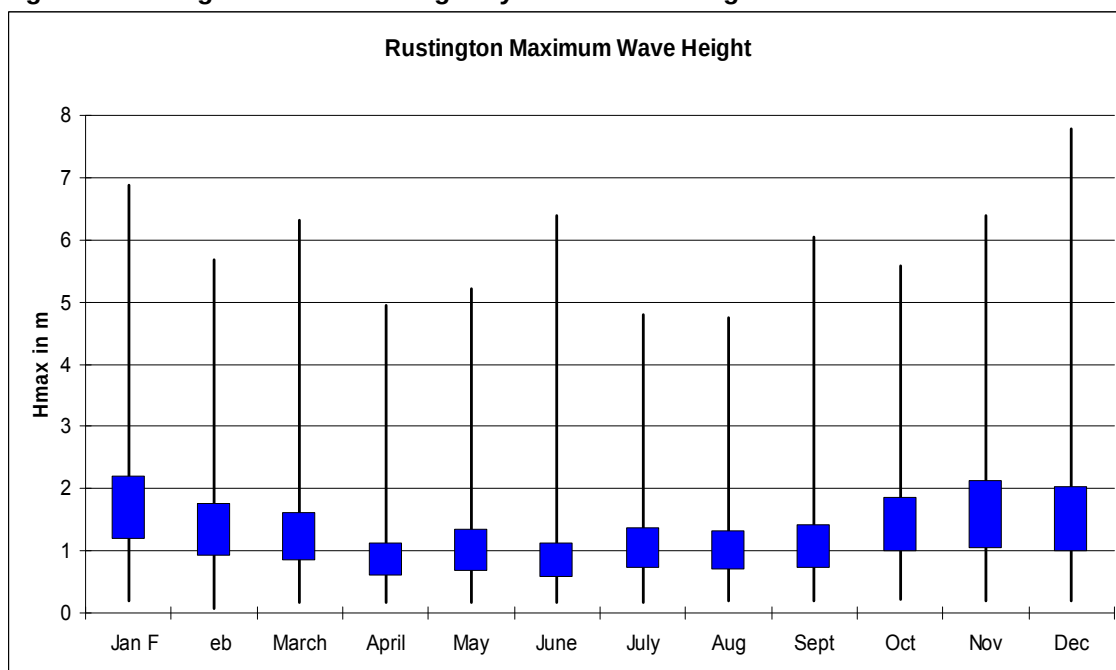


Figure 4.1.2 Maximum Wave Height by Month at Rustington

³ Lines represent the full range of values observed. Boxes represent the standard deviation (mean value is the mid point of the box).

RUSTINGTON		All Year	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
H_s (m)	Min	0.0	0.2	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1
	Mean	0.8	1.1	0.9	0.8	0.6	0.7	0.5	0.7	0.7	0.7	0.9	1.0	1.0
	Max	4.8	4.3	3.2	3.8	2.8	3.2	3.9	2.8	2.9	3.2	3.2	3.9	4.8
	SD	0.5	0.7	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.7
H_{max} (m)	Min	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Mean	1.2	1.7	1.3	1.2	0.9	1.0	0.8	1.1	1.0	1.1	1.4	1.6	1.5
	Max	7.8	6.9	5.7	6.3	4.9	5.2	6.4	4.8	4.7	6.1	5.6	6.4	7.8
	SD	0.9	1.0	0.9	0.8	0.6	0.7	0.6	0.7	0.6	0.7	0.9	1.1	1.1
T_z (s)	Min	0.0	2.1	2.2	0.0	2.1	2.1	2.1	2.0	2.0	2.1	2.2	2.2	2.1
	Mean	3.7	4.2	4.1	3.9	3.7	3.6	3.4	3.5	3.4	3.5	3.8	3.9	4.0
	Max	10.8	8.7	10.8	10.0	8.3	7.7	7.5	7.8	7.8	7.1	8.3	7.1	8.0
	SD	0.9	1.0	1.1	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.8	1.0	1.0
T_p (s)	Min	0.0	1.7	1.7	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Mean	6.6	8.0	8.5	7.5	6.8	6.1	5.8	5.3	5.1	6.1	6.2	6.6	7.3
	Max	28.6	22.2	25.0	28.6	25.0	20.0	18.2	25.0	25.0	25.0	25.0	22.2	22.2
	SD	3.6	4.0	4.7	3.9	3.7	3.2	3.1	2.5	2.4	3.6	2.9	3.3	3.7

Table 4.1.1 Monthly and All Year Wave Statistics for Rustington

Rustington and Location 1						
Return Period	Hs (m) at Rustington	Hmax(m) at Rustington	Hs (m) at L1	Hmax (m) at L1	Tz (s) Associated with Hs at L1	Tp (s) Associated with Hs at L1
1 4.2		6.8	4.4	8.0	7.1	9.2
10 4.8		7.9	5.0	9.3	7.8	10.2
50 5.2		8.6	5.5	10.1	8.5	11.1
100 5.3		8.8	5.6	10.4	8.6	11.5

Table 4.1.2 Extreme Wave Statistics at Location 1 Based on Rustington Data

Rustington and Location 2						
Return Period	Hs (m) at Rustington	Hmax(m) at Rustington	Hs (m) at L2	Hmax (m) at L2	Tz (s) Associated with Hs at L2	Tp (s) Associated with Hs at L2
1 4.2		6.8	4.4	7.6	7.1	9.2
10 4.8		7.9	5.0	8.8	7.8	10.2
50 5.2		8.6	5.4	9.6	8.4	11.0
100 5.3		8.8	5.5	9.8	8.5	11.1

Table 4.1.3 Extreme Wave Statistics at Location 2 Based on Rustington Data

Rustington and Location 3						
Return Period	Hs (m) at Rustington	Hmax(m) at Rustington	Hs (m) at L3	Hmax (m) at L3	Tz (s) Associated with Hs at L3	Tp (s) Associated with Hs at L3
1 4.2		6.8	4.9	9.1	7.8	10.0
10 4.8		7.9	5.6	10.5	8.6	11.5
50 5.2		8.6	6.1	11.4	9.3	12.4
100 5.3		8.8	6.2	11.7	9.4	12.7

Table 4.1.4 Extreme Wave Statistics at Location 3 Based on Rustington Data

Hastings and Location 1						
Return Period	Hs (m) at Hastings	Hmax(m) at Hastings	Hs (m) at L1	Hmax (m) at L1 (RATIO)	Tz (s) Associated with Hs at L1	Tp (s) Associated with Hs at L1
1 5.1		no data	4.1	7.4	7.2	8.5
10 5.7		no data	4.6	8.2	7.8	9.4
50 6.1		no data	4.9	8.8	8.1	9.9
100 6.3		no data	5.1	9.1	8.3	10.3

Table 4.1.5 Extreme Wave Statistics at Location 1 Based on Hastings Data

Hastings and Location 2						
Return Period	Hs (m) at Hastings	Hmax(m) at Hastings	Hs (m) at L2	Hmax (m) at L2 (RATIO)	Tz (s) Associated with Hs at L2	Tp (s) Associated with Hs at L2
1 5.1		no data	4.2	7.2	7.3	8.8
10 5.7		no data	4.7	8.1	7.9	9.6
50 6.1		no data	5.1	8.6	8.3	10.3
100 6.3		no data	5.2	8.9	8.5	10.5

Table 4.1.6 Extreme Wave Statistics at Location 2 Based on Hastings Data

Hastings and Location 3						
Return Period	Hs (m) at Hastings	Hmax(m) at Hastings	Hs (m) at L3	Hmax (m) at L3 (RATIO)	Tz (s) Associated with Hs at L3	Tp (s) Associated with Hs at L3
1 5.1		no data	4.7	8.5	7.9	9.6
10 5.7		no data	5.3	9.5	8.6	10.8
50 6.1		no data	5.6	10.1	8.9	11.2
100 6.3		no data	5.8	10.5	9.2	11.7

Table 4.1.7 Extreme Wave Statistics at Location 3 Based on Hastings Data

4.1.1 Wave Spectra

The colour contour plots presented in Appendix E show wave energy against associated period and direction. At each of the three locations, high energy events are focussed around 6 - 10 seconds period. The high energy event observed on the 8th November 2010 was southerly, whereas the wave activity on the 11th - 14th November 2010 was dominated by south westerly wave directions. Periods of easterly dominated wave activity were also observed, although these are typically of lower energy and lower period (around 4 - 7 seconds).

At Locations 1 and 2, the instruments have been able to resolve the directionality of waves down to an approximately 3 seconds period. At Location 3, directions have been resolved in waves longer than an approximately 4 seconds period. Below these thresholds, the signal to noise ratio in the respective water depths is too high for directions to be accurately determined.

Some evidence of bimodality can be seen (particularly on the 17th and 18th November 2010). Here, the peak in wave energy is associated with southerly waves of around 5 - 7 seconds period. Some longer period, south westerly wave energy is evident but does not account for a high proportion of the total energy. Similar events are observed on the 8th January 2011 and the 13th and 15th February 2011 and are evident at all three locations. The peak in spectral energy is not seen to be attributed at any time to longer period, swell waves. During all bimodal events observed, the proportion of the energy attributed to swell is small in comparison to the wind waves.

The frequency tables presented in Appendix E further clarify the typical periodicity and directionality of waves of differing heights at Location 3. This location was chosen, as wind and wave data were collected concurrently at the same location.

The tables display wind direction (x axis) against wave direction (y axis) for each step in H_s and T_p . Table E001 indicates two main peaks in the distribution; south westerly winds coupled with south westerly waves and easterly winds coupled with south westerly waves. In this instance, there is misalignment of the wind and wave direction. This can be explained by observed periods of low wave heights with no clear direction (see Figure F002 in the Metocean Survey Report, 22nd - 27th March 2011 for an example of this).

Table E004, representing waves between 0.5 and 1m H_s and 0 to 5s T_p indicates a third peak in the distribution; easterly winds coupled with easterly waves. As the wave height increases further, the correlation between wind direction and wave direction becomes stronger. Table E008 shows two clear peaks for waves between 1 and 1.5m H_s and 5 and 10s T_p (easterly and south westerly). Table E011 indicates that for waves between 1.5 and 2m H_s and 5 to 10s T_p , there is also a coupling between southerly winds and south to south westerly waves (180° to 230°). The longer period waves, as represented by Table E013 approach Location 3 from 240° - 250° and are caused by winds from 240°-250°

4.2 Water Levels

Observations from Metocean Survey Locations 1, 2 and 3 and the ASLF AWAC Deployment				
Astronomical Statistics	L1	L2	L3	ASLF AWAC
HAT (m)	6.80	7.21	6.62	6.30
MHWS (m)	6.10	6.39	5.96	5.60
MHWN (m)	4.78	4.99	4.62	4.37
MSL (m)	3.38	3.54	3.21	3.09
MLWN (m)	1.99	2.08	1.81	1.80
MLWS (m)	0.67	0.68	0.46	0.57
LAT (m)	0.00	0.00	0.00	0.00
MSR (m)	5.43	5.71	5.50	5.04
MR (m)	4.11	4.31	4.15	3.80
MNR (m)	2.80	2.91	2.81	2.56
MHWI (hours)	10.94	10.92	10.93	10.98
MLWI (hours)	17.16	17.33	17.32	17.25
Maximum Observed Positive Residual (Surge) (m)	0.51	0.51	0.54	0.33

Table 4.2.1 Water Level Statistics

4.2.1 Positive and Negative Surge

Return Period (years)	Arun Platform		Newhaven NTSLF	
	Positive Residual (m)	Negative Residual (m)	Positive Residual (m)	Negative Residual (m)
1	0.91 0.73		0.95 0.63	
10	1.08 0.85		1.11 0.73	
50	1.20 0.93		1.22 0.79	
100	1.25 0.97		1.27 0.81	

Table 4.2.1 Extreme Surge Statistics

4.2.2 Crest Height

Return Period (Years)	Derived from observational data			Derived from a synthesised dataset		
	Crest Height to LAT (m)			Crest Height to LAT (m)		
	L1	L2	L3	L1	L2	L3
1	9.1	9.5	9.5	10.4 10.5 10.8		
10	9.8	10.3 10.3	11.1 11.2	11.6		
50	10.2 10.8	10.8 11.5	11.6 12.1			
100	10.4 11.0	10.9 11.7	11.8 12.3			

Table 4.2.2 Extreme Crest Height Values

4.3 Currents

Location 1	Depth Averaged	Near-Surface	Mid-Depth	Near-Seabed
Metonic Maximum Speed (m/s)	1.1	1.2	1.2	0.9
Mean Spring Rate (m/s)	0.8	0.8	0.9	0.7
Mean Neap Rate (m/s)	0.4	0.4	0.4	0.3
Bearing Flood/Ebb (°T)	67/247	68/248	67/247	64/244
Mean Drift (m/s)	0.009	0.044	0.006	0.004
Bearing of Mean Drift (°T)	96	125	39	104

Table 4.3.1 Current Speed Statistics and Associated Directions at Location 1

Location 2	Depth Averaged	Near-Surface	Mid-Depth	Near-Seabed
Metonic Maximum Speed (m/s)	1.1	1.2	1.1	0.8
Mean Spring Rate (m/s)	0.7	0.8	0.8	0.6
Mean Neap Rate (m/s)	0.4	0.4	0.4	0.3
Bearing Flood/Ebb(°T)	59/239	53/233	60/240	57/237
Mean Drift (m/s)	0.039	0.168	0.019	0.01
Bearing of Mean Drift (°T)	9	21	6	270

Table 4.3.2 Current Speed Statistics and Associated Directions at Location 2

Location 3	Depth Averaged	Near-Surface	Mid-Depth	Near-Seabed
Metonic Maximum Speed (m/s)	1.2	1.3	1.3	1
Mean Spring Rate (m/s)	0.9	0.9	0.9	0.7
Mean Neap Rate (m/s)	0.5	0.5	0.5	0.3
Bearing Flood/Ebb(°T)	61/241	57/237	61/241	58/238
Mean Drift (m/s)	0.028	0.036	0.031	0.014
Bearing of Mean Drift (°T)	32	32	36	30

Table 4.3.3 Current Speed Statistics and Associated Directions at Location 3

Location	Maximum Observed Depth Average Residual Velocity (m/s)
1 0.52	
2 0.51	
3 0.52	

Table 4.3.4 Residual Velocity at Each Location

4.4 Meteorological Data

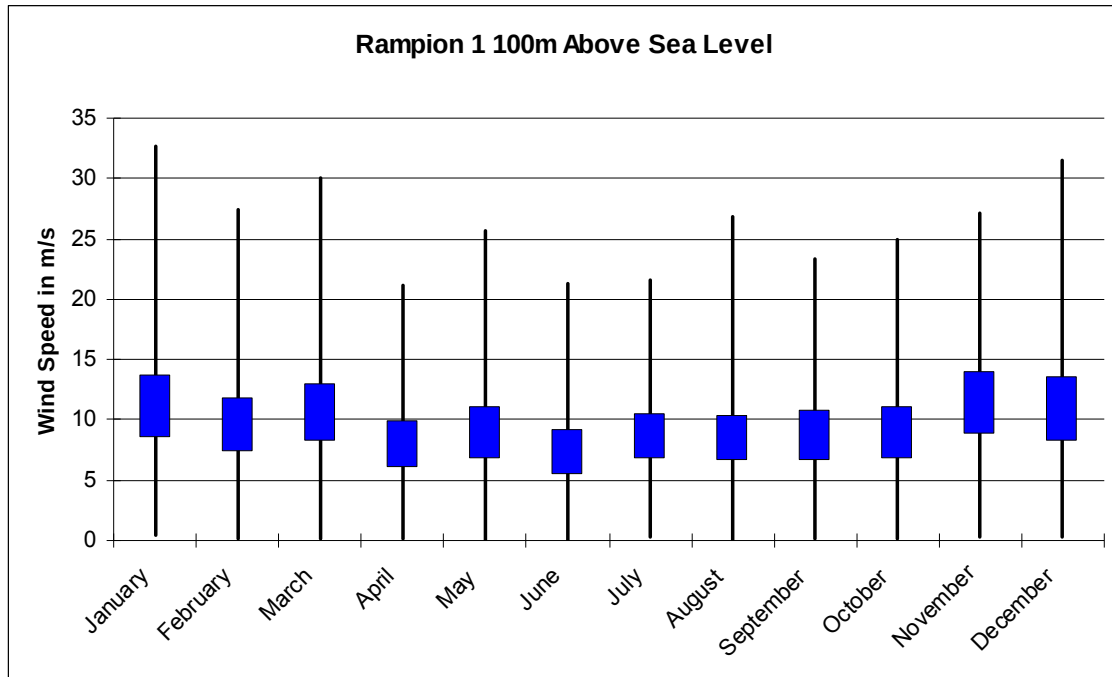


Figure 4.4.1 Wind Speed Statistics by Month at Rampion 1

Rampion 1 – Wind Speed at 100m Above Sea Level (m/s)													
	All Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Min	0.0	0.5	0.2	0.1	0.2	0.1	0.0	0.2	0.0	0.1	0.1	0.3	0.3
Mean	9.3	11.1	9.6	10.5	7.9	8.9	7.3	8.6	8.5	8.7	8.9	11.4	10.8
Max	32.7	32.7	27.4	30.0	21.1	25.7	21.3	21.6	26.8	23.3	25.0	27.2	31.5
SD	4.7	5.3	4.5	4.8	3.9	4.4	3.7	3.8	3.7	4.1	4.4	5.3	5.4

Table 4.4.1 Wind Speed Statistics at Rampion 1

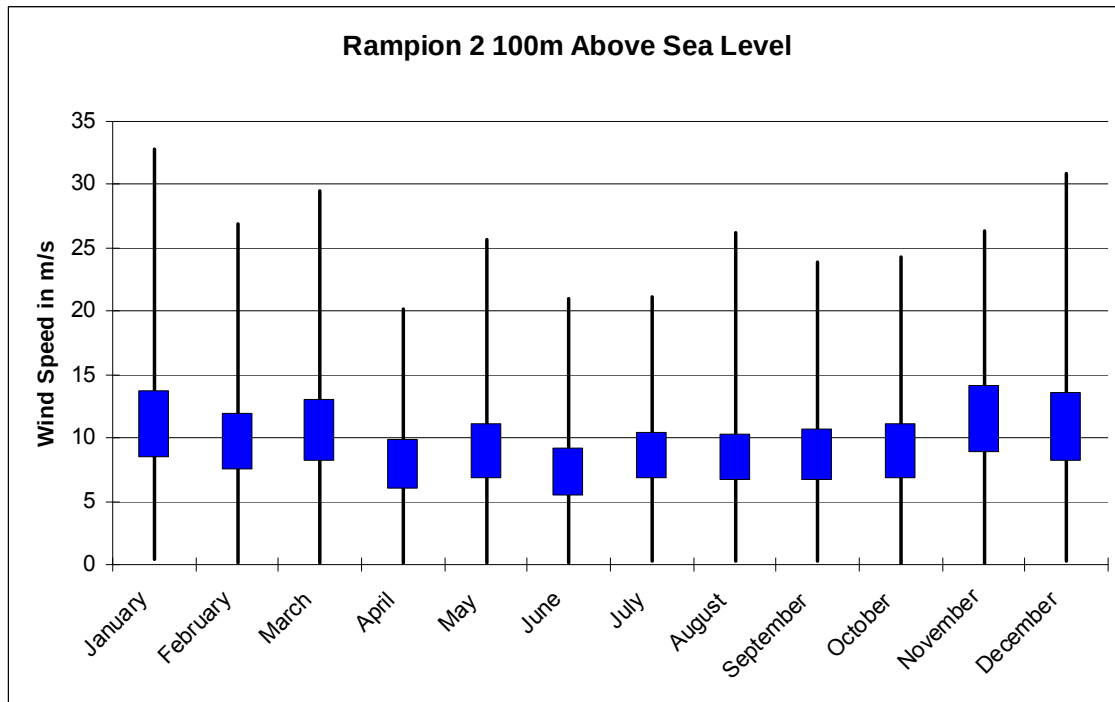


Figure 4.4.2 Wind Speed Statistics by Month at Rampion 2

Rampion 2 – Wind Speed at 100m Above Sea Level (m/s)													
	All Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Min	0.0	0.4	0.2	0.2	0.1	0.2	0.1	0.3	0.3	0.2	0.1	0.0	0.3
Mean	9.3	11.1	9.6	10.6	7.9	8.9	7.3	8.6	8.5	8.7	8.9	11.4	10.9
Max	32.8	32.8	26.9	29.5	20.1	25.7	21.0	21.2	26.2	23.9	24.3	26.4	30.9
SD	4.7	5.3	4.6	4.9	3.9	4.4	3.7	3.8	3.7	4.1	4.4	5.3	5.5

Table 4.4.2 Wind Speed Statistics at Rampion 2

Rampion 1							
Return Period (Years)	Wind Speed 10m A.S.L (m/s)	Wind Speed 50m A.S.L (m/s)	Wind Speed 75m A.S.L (m/s)	Wind Speed 100m A.S.L (m/s)	Wind Speed 125m A.S.L (m/s)	Wind Speed 150m A.S.L (m/s)	Wind Speed 175m A.S.L (m/s)
1	23.8	28.2	29.4	30.4	31.3	31.9	32.6
10	26.5	31.3	32.7	34.0	34.9	35.7	36.5
50	28.2	33.4	34.8	36.2	37.2	38.1	39.0
100	28.9	34.2	35.7	37.1	38.2	39.1	40.0

Table 4.4.3 Weibull Statistics for Wind Speed at 7 Heights at Met Office Model Output Location Rampion 1

Rampion 2							
Return Period (Years)	Wind Speed 10m A.S.L (m/s)	Wind Speed 50m A.S.L (m/s)	Wind Speed 75m A.S.L (m/s)	Wind Speed 100m A.S.L (m/s)	Wind Speed 125m A.S.L (m/s)	Wind Speed 150m A.S.L (m/s)	Wind Speed 175m A.S.L (m/s)
1	24.0	28.3	29.6	30.1	31.4	32.2	33.2
10	26.8	31.6	33.0	33.6	35.1	36.0	37.2
50	28.5	33.6	35.1	35.8	37.4	38.4	39.8
100	29.2	34.5	36.0	36.7	38.4	39.4	40.8

Table 4.4.4 Weibull Statistics for Wind Speed at 7 Heights at Met Office Model Output Location Rampion 2

4.4.1 Air Temperature Statistics

Minimum (°C)	Mean (°C)	Maximum (°C)	Standard Deviation (°C)
-5.0	10.0	24.6	6.2

Table 4.4.5 Air Temperature Statistics from CCO Worthing

These statistics are derived from less than one year's observations (July 2010 – May 2011).

Minimum (°C)	Mean (°C)	Maximum (°C)	Standard Deviation (°C)
-5.3	11.5	22.4	4.7

Table 4.4.6 Air Temperature Statistics from CCO Sandown

These statistics are derived from 1 year and 4 months of observations from Sandown Pier.

4.5 Sea Temperature

No significant difference in near-seabed temperature was observed across the 3 locations during the survey period. Statistics from the CCO Rustington and Seaford datasets are also presented, to give an indication of the year-round trend. These data are recorded by Datawell Mark III Directional Waverider Buoys from approximately 0.5m below the sea surface. The Rampion locations show a good level of agreement with these published datasets during the winter months in which observations were made. Greater variability is observed at the CCO locations, as expected when comparing long sea surface temperature datasets with short near-seabed datasets.

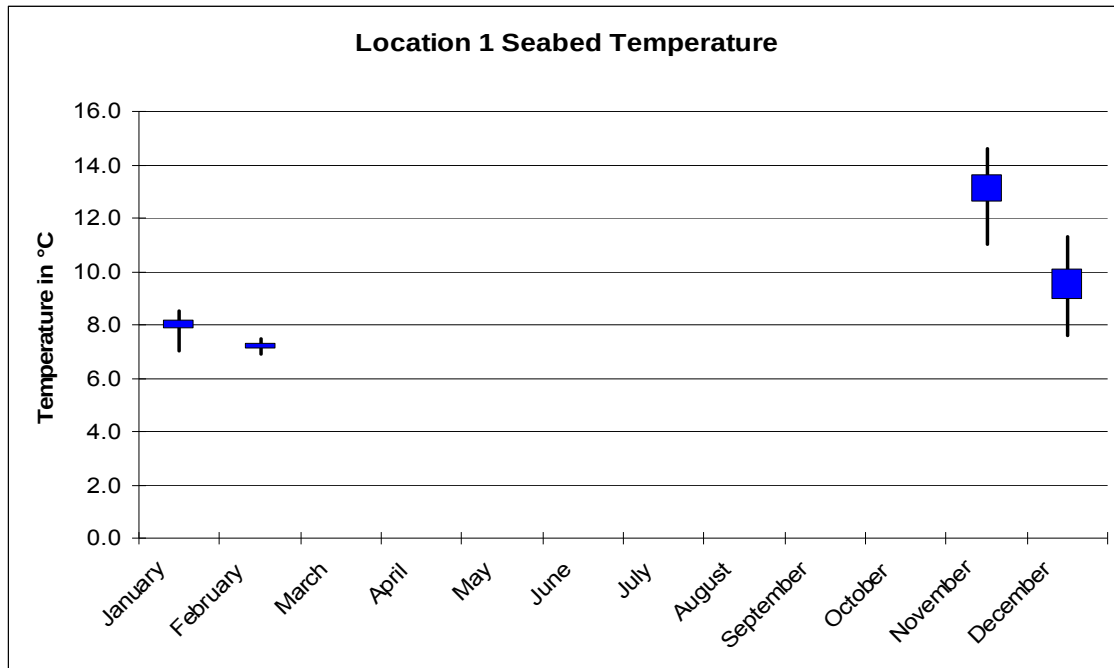


Figure 4.5.1 Sea Temperature by Month at Location 1

Location 1	Jan	Feb	Nov	Dec
Minimum (°C)	7.0	6.9	11.0	7.6
Mean (°C)	8.0	7.2	13.1	9.5
Maximum (°C)	8.5	7.5	14.6	11.3
Standard Deviation (°C)	0.3	0.2	1.0	1.2

Table 4.5.1 Sea Temperature Statistics by Month at Location 1

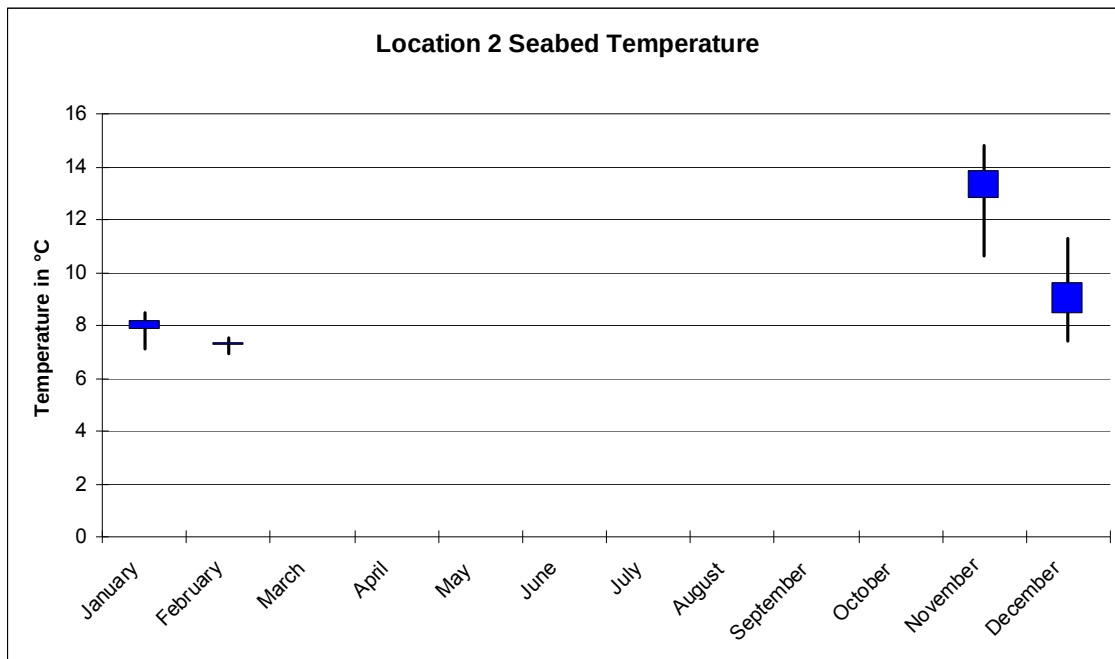


Figure 4.5.2 Sea Temperature by Month at Location 2

Location 2	Jan	Feb	Nov	Dec
Minimum (°C)	7.1	6.9	10.6	7.4
Mean (°C)	8.0	7.3	13.3	9.0
Maximum (°C)	8.5	7.5	14.8	11.3
Standard Deviation (°C)	0.3	0.1	1.1	1.2

Table 4.5.2 Sea Temperature Statistics by Month at Location 2

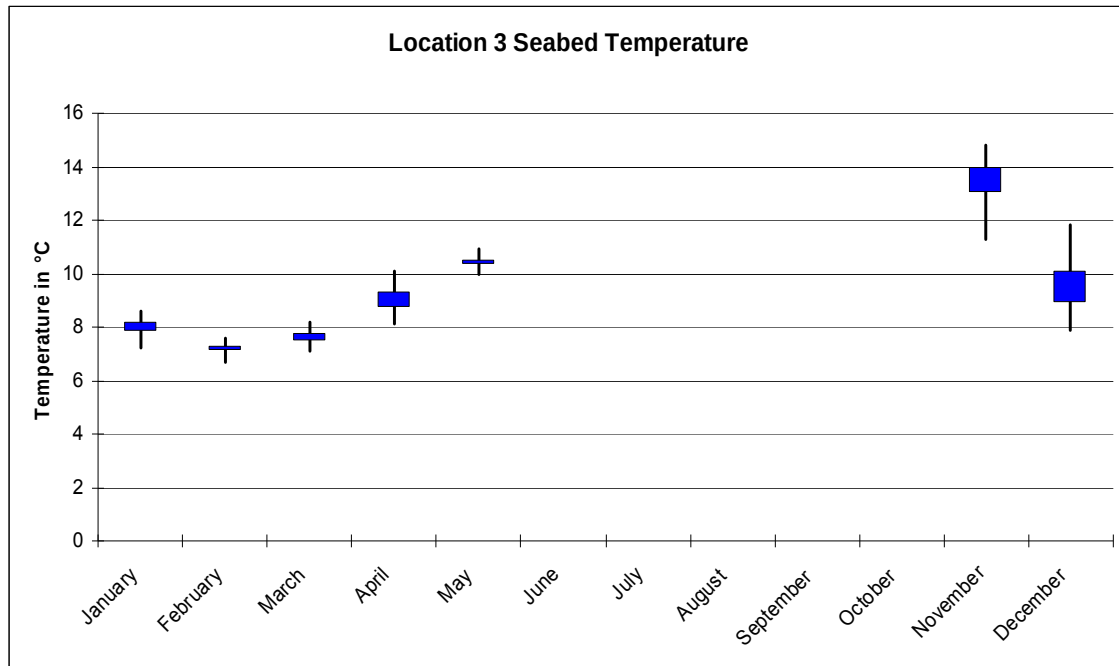


Figure 4.5.3 Sea Temperature by Month at Location 3

Location 3	Jan	Feb	March	April	May	Nov	Dec
Minimum (°C)	7.2	6.7	7.1	8.1	10.0	11.3	7.9
Mean (°C)	8.0	7.2	7.6	9.0	10.4	13.5	9.5
Maximum (°C)	8.6	7.6	8.2	10.1	10.9	14.8	11.8
Standard Deviation (°C)	0.3	0.2	0.3	0.6	0.2	1.0	1.2

Table 4.5.3 Sea Temperature Statistics by Month at Location 3

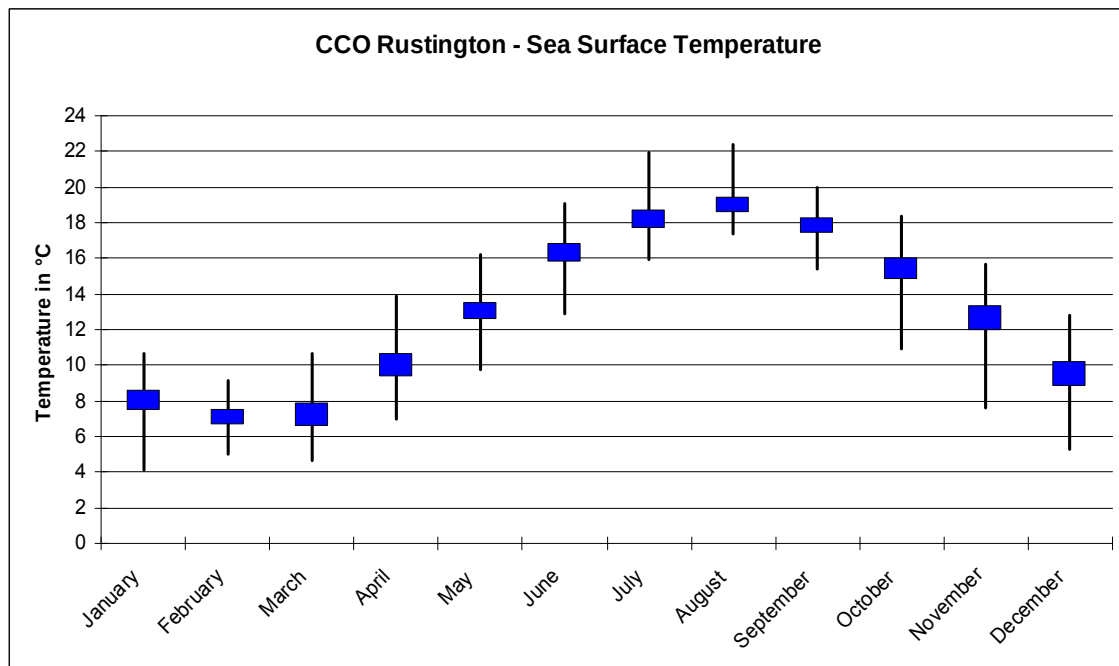


Figure 4.5.4 Sea Temperature by Month at Rustington

CCO Rustington Wave Buoy (Sea Surface Temperature) (°C)												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Min	4.1	5.0	4.7	7.0	9.8	12.9	15.9	17.4	15.4	10.9	7.6	5.3
Mean	8.0	7.1	7.2	10.0	13.0	16.3	18.2	19.0	17.8	15.4	12.6	9.5
Max	10.7	9.1	10.7	13.9	16.2	19.1	21.9	22.4	20.0	18.4	15.7	12.8
SD	1.2	0.9	1.4	1.3	1.0	1.1	1.1	0.9	0.9	1.3	1.4	1.4

Table 4.5.4 Sea Temperature Statistics by Month at Rustington

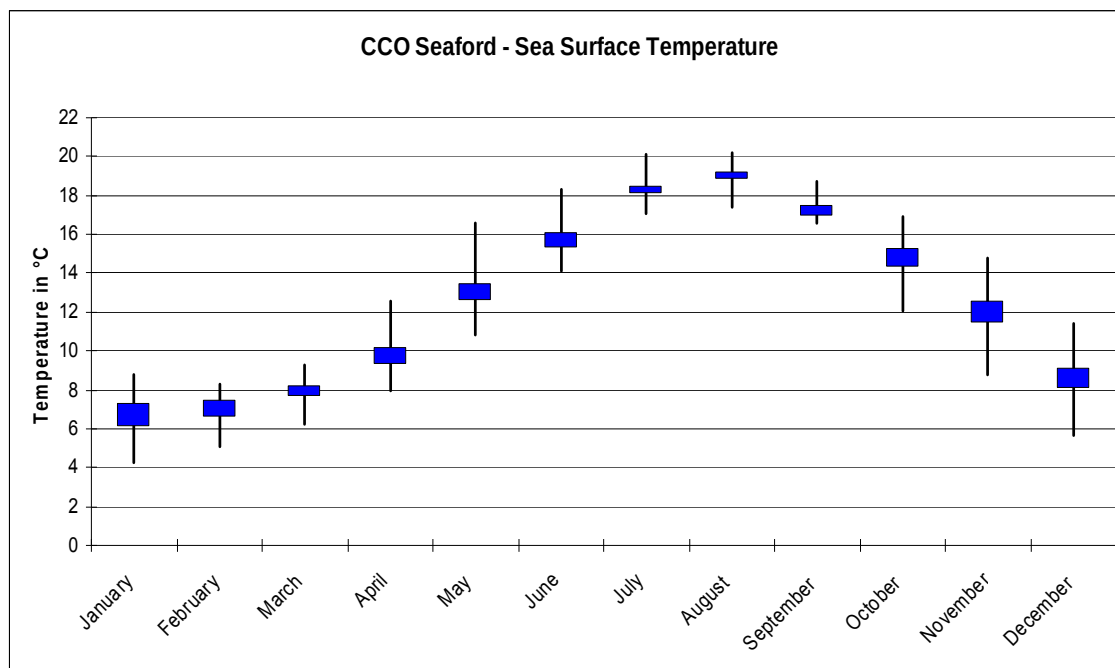


Figure 4.5.5 Sea Temperature by Month at Seaford

CCO Seaford Wave Buoy (Sea Surface Temperature) (°C)												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Min	4.3	5.1	6.2	8.0	10.8	14.1	17.1	17.4	16.6	12.1	8.8	5.7
Mean	6.7	7.0	7.9	9.7	13.0	15.7	18.3	19.0	17.2	14.8	12.0	8.6
Max	8.8	8.3	9.3	12.6	16.6	18.3	20.1	20.2	18.7	16.9	14.8	11.4
SD	1.2	0.9	0.6	0.9	0.9	0.8	0.4	0.4	0.5	1.0	1.1	1.1

Table 4.5.5 Sea Temperature Statistics by Month at Seaford

5 RECOMMENDATIONS

We recommend that, where extreme event values are required for engineering calculations, a suitable margin of error is applied. As stated in section 3.1, we estimate that the typical magnitude of error is 10%. Where different methods have been used to extrapolate extreme values, we have presented all results under section 4 in order to provide a range of values. In each instance, the worst case has been presented in the summary tables at the beginning of this report.

The wind values presented in this report are based on a “Virtual Met Mast” model output from the Met Office. Additional, observational data sources from the Met Office’s land based stations have been identified for further wind data analysis if this is required in the future.

Appendix A

Data Presentation

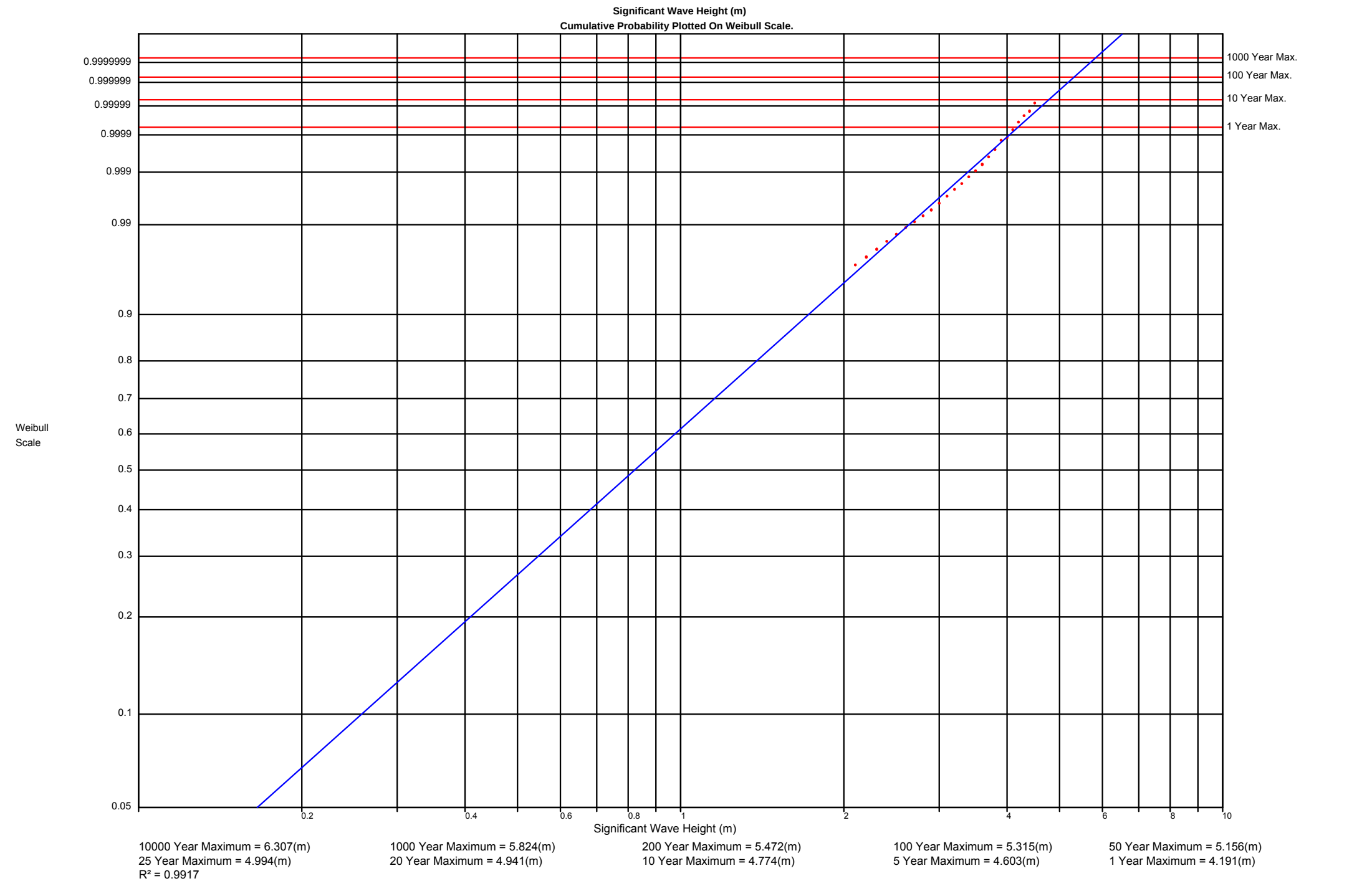
Waves

Figure/Table	Location/Data Source	Data Type	Parameters
Figure A001	Rustington	Statistical Distributions	Weibull Analysis of Significant Wave Height (H_s)
Figure A002	Rustington	Statistical Distributions	Weibull Analysis of Maximum Wave Height (H_{max})
Figure A003	Rustington	Hodogram (Rose Plot)	Percentage Occurrence of Wave Height and Direction
Table A001	Rustington	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Zero Up-Crossing Period (T_z) – All Months
Table A002	Rustington	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Peak Period (T_p) – All Months
Table A003	Rustington	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Direction – All Months Includes Percentage Exceedance Values
Figure A004	Rustington	Statistical Summary Plots	Percentage Occurrence of H_s and Direction. Percentage Exceedance and Persistence of H_s – All Months
Table A004-A015	Rustington Freq	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Direction – Per Month. Includes Percentage Exceedance Values
Figures A005-A016	Rustington Statistical	Summary Plots	Percentage Occurrence of H_s and Direction. Percentage Exceedance and Persistence of H_s for Each Month
Tables A016 – A027	Rustington	Frequency Table	Percentage Persistence of H_s up to 48 hours
Tables A028-A039	Rustington Freq	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Zero Up-Crossing Period (T_z) – Per Month
Figure A017	Rustington and Location 1	Regressions H_s	H_s and H_{max} relationships between L1 and Rustington
Figure A018	Rustington and Location 2	Regressions H_s	H_s and H_{max} relationships between L2 and Rustington
Figure A019	Rustington and Location 3	Regressions H_s	H_s and H_{max} relationships between L3 and Rustington
Figure A020	Hastings	Statistical Distributions	Weibull Analysis of Significant Wave Height (H_s)
Figure A021	Hastings	Hodogram (Rose Plot)	Percentage Occurrence of Wave Height and Direction
Table A040	Hastings	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Zero Up-Crossing Period (T_z) – All Months

Table A041	Hastings	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Peak Period (T_p) – All Months
Table A042	Hastings	Frequency Table	Frequency Table of Significant Wave Height (H_s) against Direction – All Months Includes Percentage Exceedance Values
Figure A022	Hastings	Statistical Summary Plots	Percentage Occurrence of H_s and Direction. Percentage Exceedance and Persistence of H_s – All Months
Tables A043- A054	Hastings	Frequency Tables	Frequency Table of Significant Wave Height (H_s) against Direction – Per Month. Includes Percentage Exceedance Values
Figures A023- A034	Hastings Statistical	Summary Plots	Percentage Occurrence of H_s and Direction. Percentage Exceedance and Persistence of H_s for Each Month
Tables A055 – A066	Hastings	Frequency Table	Percentage Persistence of H_s up to 48 hours
Tables A067 - A078	Hastings	Frequency Tables	Frequency Table of Significant Wave Height (H_s) against T_z – Per Month
Figure A035	Hastings and Location 1	Regression H	H_s relationship between L1 and Hastings
Figure A036	Hastings and Location 2	Regression H	H_s relationship between L2 and Hastings
Figure A037	Hastings and Location 3	Regression H	H_s relationship between L3 and Hastings
Table A079	Location 1	Frequency Tables	H_s vs T_z for all months in which observations were made
Table A080	Location 1	Frequency Tables	H_s vs T_p for all months in which observations were made
Table A081	Location 2	Frequency Tables	H_s vs T_z for all months in which observations were made
Table A082	Location 2	Frequency Tables	H_s vs T_p for all months in which observations were made
Table A083	Location 3	Frequency Tables	H_s vs T_z for all months in which observations were made
Table A084	Location 3	Frequency Tables	H_s vs T_p for all months in which observations were made
Figure A038	Location 1	Regression	H_s vs H_{max} ratio
Figure A039	Location 2	Regression	H_s vs H_{max} ratio
Figure A040	Location 3	Regression	H_s vs H_{max} ratio
Figure A041	Rustington	Regression	H_s vs T_z
Figure A042	Rustington	Regression	H_s vs T_p
Figure A043	Hastings	Regression	H_s vs T_z
Figure A044	Hastings	Regression	H_s vs T_p

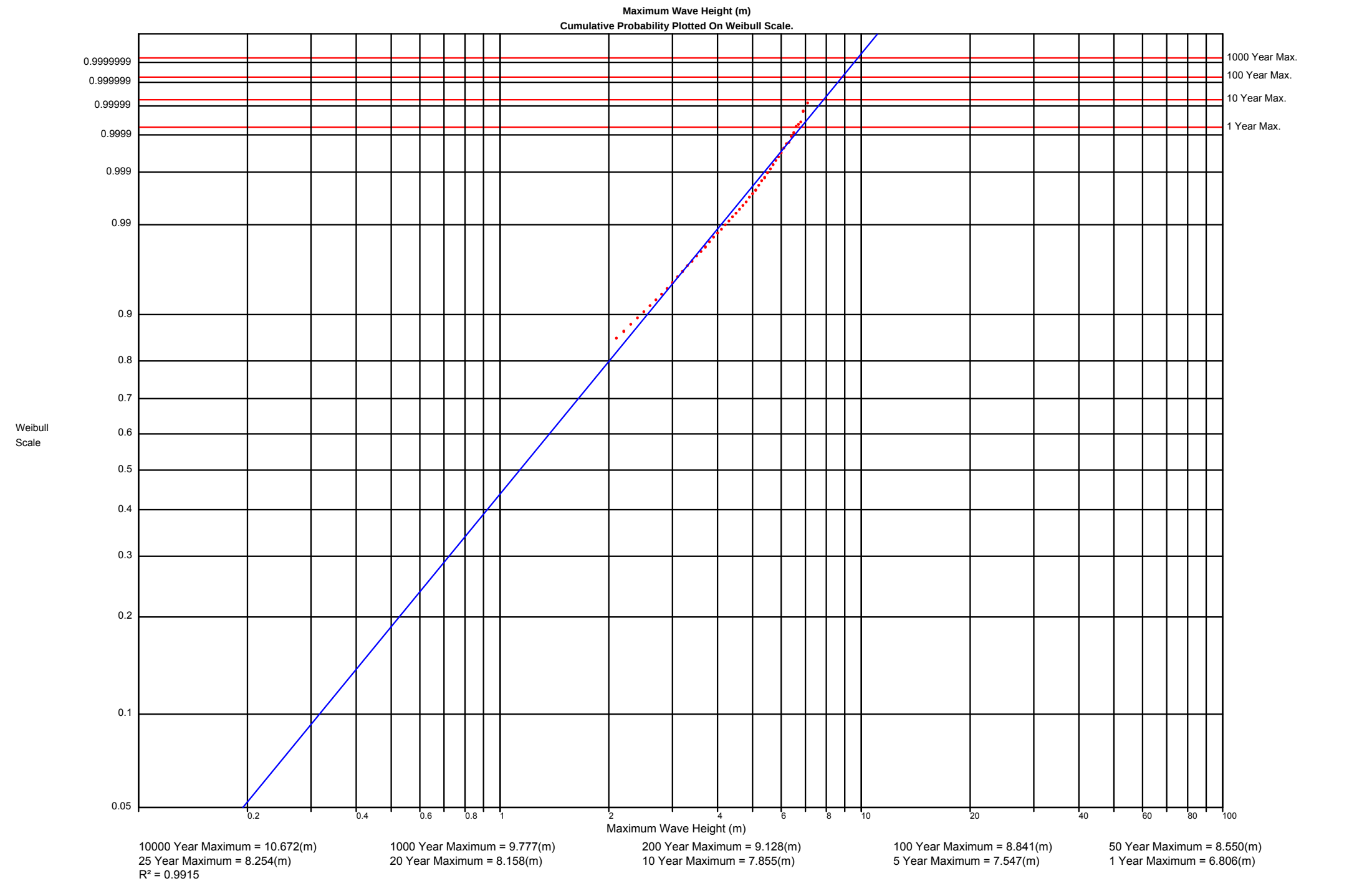
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000



Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

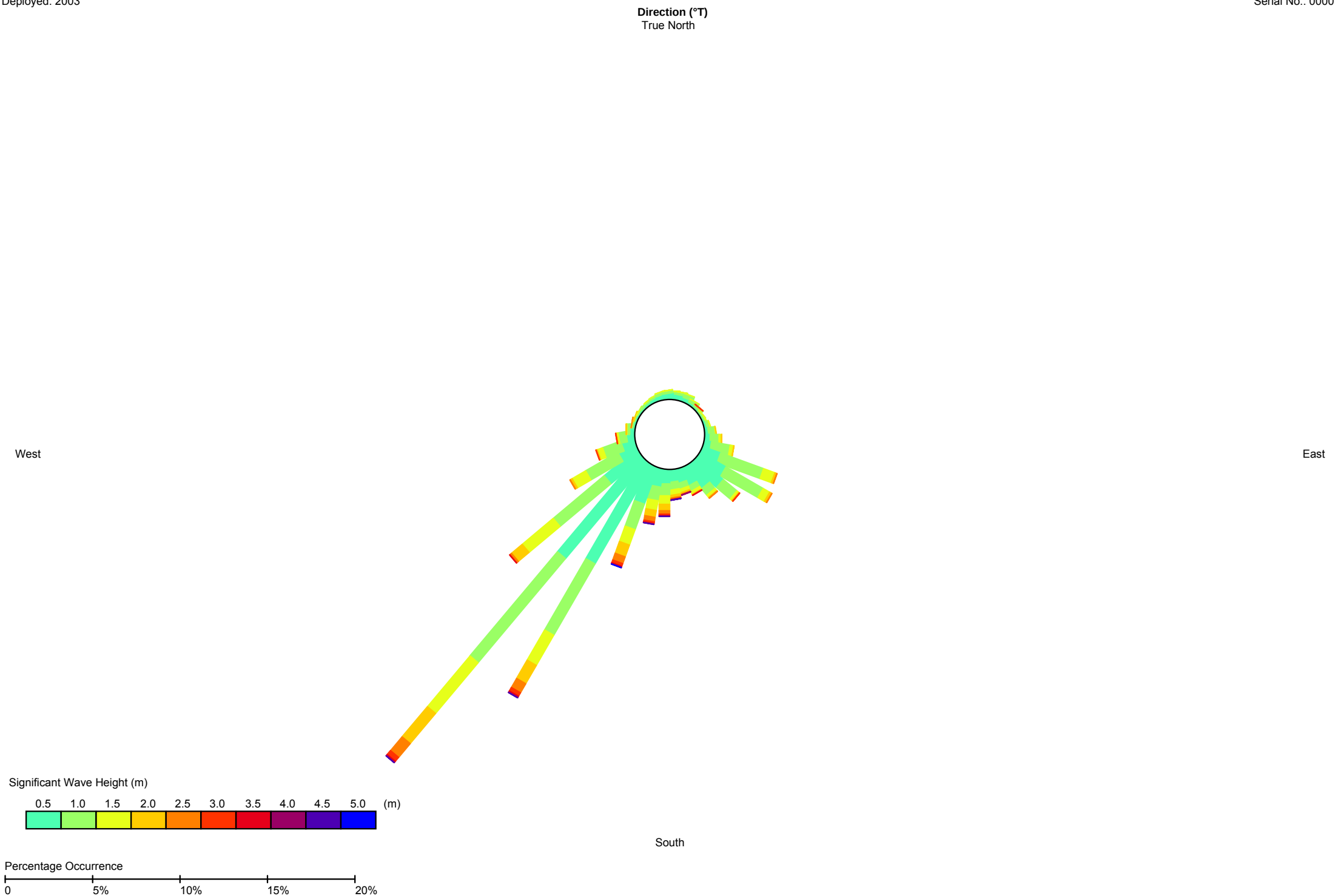
Wave Buoy / CCOData
Serial No.: 0000



Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
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Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

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Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Data for All Months

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Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s)																										Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5		
<1	1																									1	0.001
<2		6																								6	0.005
<3	873	12557	13592	5239	916	25																				33202	25.311
<4	2284	11697	12579	11398	9576	5807	2811	1254	310	16																57732	44.012
<5	284	3409	2518	2252	2513	3019	3425	3259	2782	2005	1083	398	113	9												27069	20.636
<6	3	1304	1224	662	549	516	493	544	672	885	985	885	685	470	312	188	72	19	2							10470	7.982
<7		261	707	271	178	115	88	47	45	26	25	28	29	34	58	74	70	63	47	19	11	3	1		1	2201	1.678
<8		21	153	102	50	27	26	7	1									1								388	0.296
<9		3	18	18	22	12	4	6	1																	84	0.064
<10		4	4	5	6			1																		20	0.015
<11			1																							1	0.001
																										131174	100
Count	3445	29262	30796	19947	13810	9521	6847	5118	3811	2932	2093	1311	827	513	370	262	142	83	49	19	11	3	1	0	1	131174	
%	2.626	22.308	23.477	15.207	10.528	7.258	5.220	3.902	2.905	2.235	1.596	0.999	0.630	0.391	0.282	0.200	0.108	0.063	0.037	0.014	0.008	0.002	0.001	0.000	0.001	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Wave Buoy / CCOData

Data for All Months

Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Peak Period (s)																											
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1	1																									1	0.001
<2	117	1460	155																							1732	1.320
<3	199	4341	5761	1267	148	4																				11720	8.935
<4	768	5468	7797	5438	2693	855	222	52	3	1																23297	17.760
<5	542	3314	4638	5204	4809	3332	1810	714	269	51	8	3	1	1												24696	18.827
<6	351	1715	1556	1777	1929	2026	2025	1931	1127	611	213	49	14													15324	11.682
<7	163	949	773	745	748	793	785	941	991	911	722	321	147	67	21	4										9081	6.923
<8	102	879	630	477	545	589	539	486	517	559	540	472	364	225	163	97	40	24	7							7255	5.531
<9	71	884	699	359	274	243	252	246	261	254	196	144	98	75	67	49	50	30	23	8	6		1			4290	3.270
<10	368	2873	2141	1079	603	398	306	251	276	265	257	208	132	89	82	78	38	18	10	5	4	2			1	9484	7.230
<11	181	1353	1039	589	286	177	139	84	64	49	50	56	35	32	19	22	8	5	5	1	1	1				4196	3.199
<12	323	2688	2339	1130	642	391	322	170	108	87	57	28	23	19	15	9	5	4	4	5						8369	6.380
<13	87	935	783	415	223	109	91	45	39	20	11	4	5	3	2	2	1	2								2777	2.117
<14	65	807	778	391	227	142	84	50	37	26	9	4	3	2	1	1										2627	2.003
<15	55	725	704	426	253	153	100	37	32	20	9	2	2													2518	1.920
<16	20	412	454	269	176	98	59	49	32	24	6	9														1608	1.226
<17	9	206	291	184	126	99	44	25	19	19	3	4														1029	0.784
<18																										0	0.000
<19	13	163	141	117	89	62	45	21	14	11	7	4	1													688	0.524
<20	2	66	74	59	29	41	14	12	14	11	4	3	2													331	0.252
<21																										0	0.000
<22																										0	0.000
<23	1	20	30	21	8	9	9	3	7	13	1															122	0.093
<24																										0	0.000
<25	7	3	13		2		1	1	1																	28	0.021
<26																										0	0.000
<27																										0	0.000
<28																										0	0.000
<29		1																								1	0.001
<30																										0	0.000
																										131174	100
Count	3445	29262	30796	19947	13810	9521	6847	5118	3811	2932	2093	1311	827	513	370	262	142	83	49	19	11	3	1	0	1	131174	
%	2.626	22.308	23.477	15.207	10.528	7.258	5.220	3.902	2.905	2.235	1.596	0.999	0.630	0.391	0.282	0.200	0.108	0.063	0.037	0.014	0.008	0.002	0.001	0.000	0.001	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

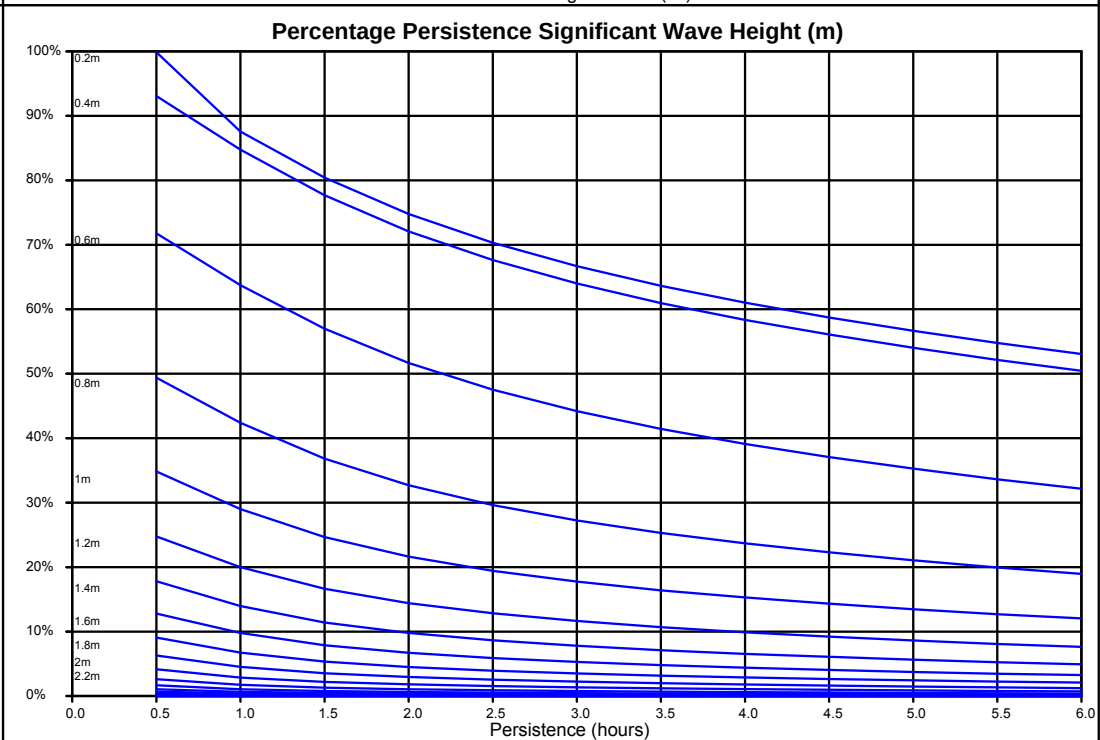
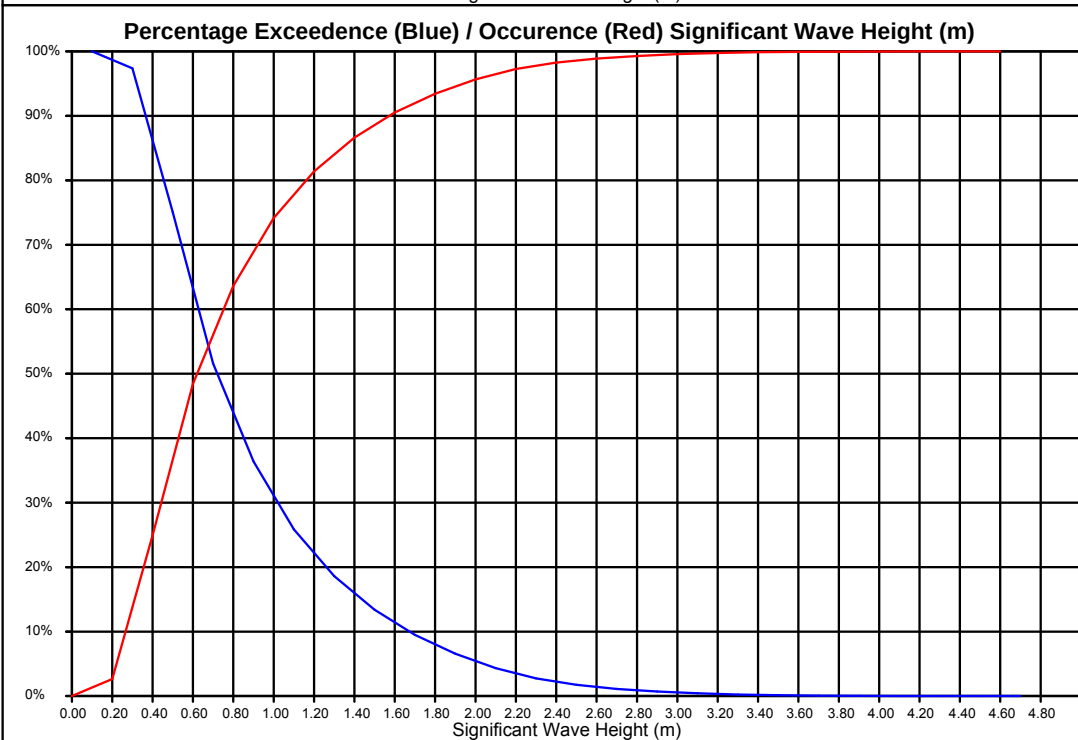
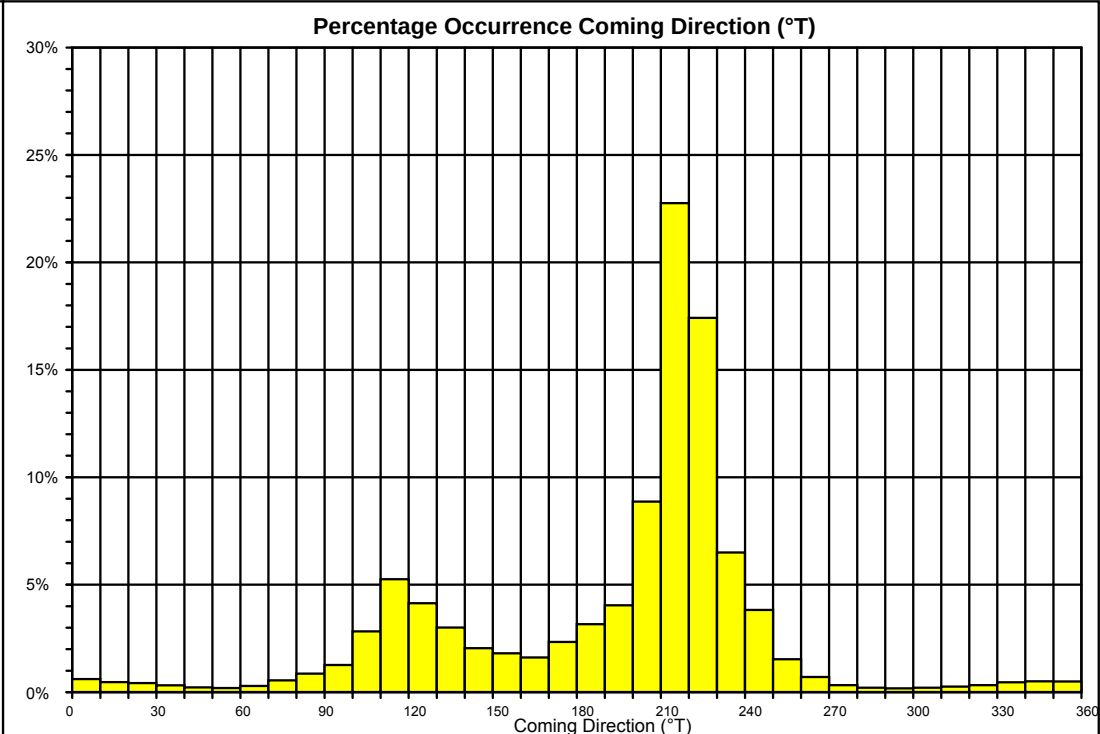
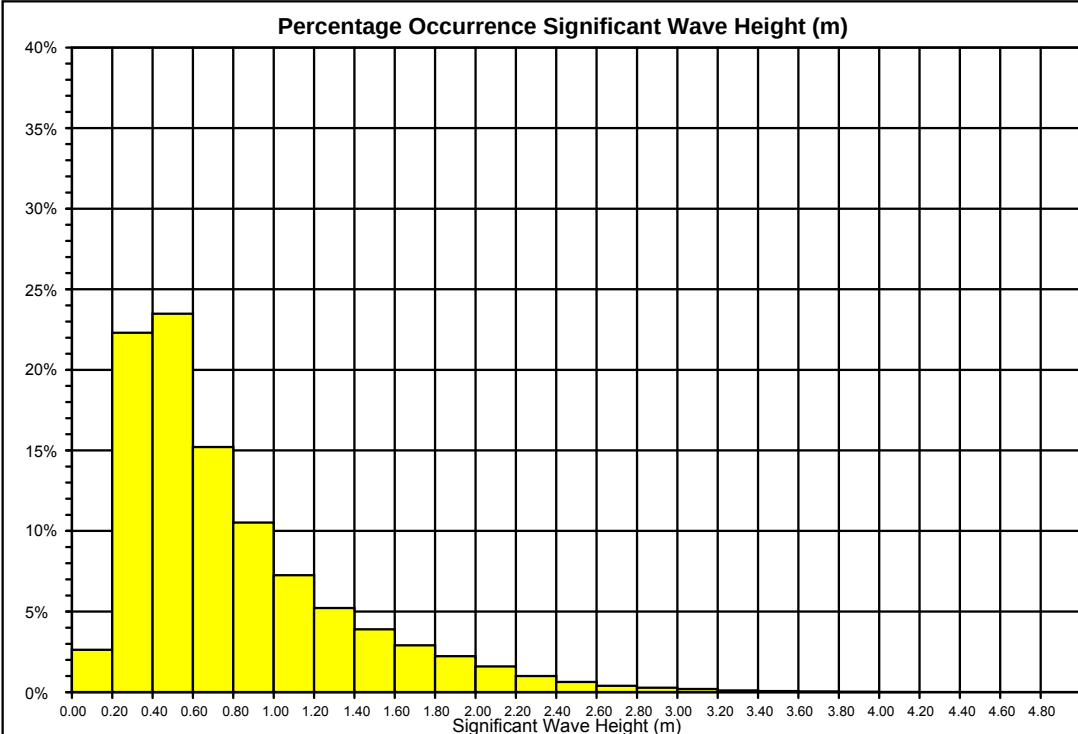
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T)																											
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	10	310	323	125	27	2	1			2	1	1	1													803	0.612
<20	3	188	300	94	22	2	2																			611	0.466
<30		152	249	122	28	1																				552	0.421
<40	5	99	194	93	23	2	1																			417	0.318
<50	2	77	107	65	34	2	1							1												289	0.220
<60	3	94	86	38	24	5																				250	0.191
<70	5	90	163	66	55	3																				382	0.291
<80	10	167	265	166	89	20	2	2																		721	0.550
<90	14	198	359	258	179	86	26	3	1																	1124	0.857
<100	18	265	444	389	266	160	79	34	2																	1657	1.263
<110	31	417	1125	980	646	298	122	63	20	5																3707	2.827
<120	126	952	1721	1788	1130	558	284	196	93	44	6	1														6899	5.261
<130	222	1367	1687	1143	540	196	105	77	41	38	8	3														5427	4.138
<140	326	1437	1362	365	193	121	42	46	20	11	11	7	1													3942	3.006
<150	303	1204	509	208	139	121	79	58	26	11	15	11	1													2685	2.047
<160	237	958	367	197	169	124	104	100	42	16	22	15	9	4	1	3	4	1								2373	1.809
<170	188	662	291	200	202	147	127	101	54	46	39	24	10	4	7	3	7	1	2	2						2117	1.614
<180	152	688	354	307	301	246	197	209	157	136	101	54	34	31	28	25	26	8	5	2	4					3065	2.337
<190	162	859	541	419	327	314	300	264	223	217	178	96	76	58	39	35	12	7	10	6	2					4145	3.161
<200	209	1224	731	576	411	352	338	310	257	231	200	156	102	65	52	28	21	17	11	3	1		1		1	5297	4.039
<210	391	3109	2127	1269	941	761	616	540	471	412	345	204	169	108	67	53	19	25	7	2	1					11637	8.873
<220	608	7185	6934	4018	2682	1959	1520	1221	1050	888	637	408	274	162	131	84	40	21	13	3	2	1				29841	22.754
<230	253	3687	4816	3417	2651	2129	1734	1333	1022	723	461	304	138	78	45	31	13	3	1	1	1	2				22843	17.418
<240	69	1070	1706	1531	1404	1121	810	402	252	101	34	17	8	1												8526	6.501
<250	35	756	1352	1095	797	541	227	112	45	31	21	4	3													5019	3.827
<260	11	429	631	356	269	157	68	30	27	15	13	5	1	1												2013	1.535
<270	7	275	336	134	82	40	32	13	8	1		1														929	0.708
<280	7	137	148	62	37	19	15	3		2																430	0.328
<290	6	90	96	47	16	6	4	1		1	1															268	0.204
<300	2	92	89	32	7	6	3																			231	0.176
<310	2	81	132	40	10		3																			268	0.204
<320	2	102	174	49	9		1																			337	0.257
<330	2	131	212	67	11	2	2																			427	0.326
<340	9	210	291	69	25	4																				608	0.464
<350	7	241	300	78	28	5																				659	0.502
<360	8	251	267	80	33	9																				648	0.494
																										131147	100
Count	3445	29254	30789	19943	13807	9519	6845	5118	3811	2931	2093	1311	827	513	370	262	142	83	49	19	11	3	1	0	1	131147	
%	2.627	22.306	23.477	15.207	10.528	7.258	5.219	3.902	2.906	2.235	1.596	1.000	0.631	0.391	0.282	0.200	0.108	0.063	0.037	0.014	0.008	0.002	0.001	0.000	0.001	100	
100.0	97.4	75.1	51.6	36.4	25.9	18.6	13.4	9.5	6.6	4.3	2.7	1.7	1.1	0.7	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Data for All Months

Wave Buoy / CCOData
Serial No.: 0000



Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 1

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		14	39	17						1																71	0.60
<20		9	34	16	2																					61	0.51
<30		8	30	15	7																					60	0.51
<40		1	26	13		1																				41	0.35
<50		2	8	7																						17	0.14
<60		6	8	2	2	1																				19	0.16
<70		5	8	6	2																					21	0.18
<80		8	20	6	8	3																				45	0.38
<90		5	10	10	10	4																				39	0.33
<100		1	10	27	12	14	5																			69	0.58
<110		4	34	57	50	41	12	7		1																206	1.74
<120		17	114	195	173	113	50	34	23	24	5															748	6.31
<130	1	44	125	132	74	24	14	12	19	25	5															475	4.00
<140	3	53	63	59	19	15	5	13	8	4	1															243	2.05
<150		36	34	24	19	20	10	6	12	2	3		1													167	1.41
<160		27	22	20	12	7	7	13	8	4	2		1	1		1	1	1								127	1.07
<170	1	7	33	8	22	21	29	26	13	4	9	6	2	1	4	2	3		1	1						193	1.63
<180	1	21	37	26	38	48	36	69	50	25	16	17	7	10	8	4	8	4				2				427	3.60
<190	4	34	54	49	56	53	59	51	55	57	42	35	25	17	15	13	3	1	5	3	2					633	5.34
<200	10	68	81	74	62	57	55	39	50	46	42	35	23	18	13	2	4	5	1							685	5.77
<210	18	195	189	169	166	126	93	110	114	91	72	55	34	20	16	13	3	2	2							1488	12.54
<220	21	312	450	307	265	250	242	245	214	188	127	72	54	35	21	11	10	4	4	2	1	1				2836	23.91
<230	7	151	260	206	197	185	194	184	168	123	80	46	25	12	10	8	2		1	1	1	2				1863	15.70
<240	4	27	61	63	58	52	43	22	16	9	7	2	3													367	3.09
<250		17	73	64	53	56	41	21	8	10	8	1														352	2.97
<260		14	60	39	29	17	14	14	9	6	5	2														209	1.76
<270		11	26	23	13	7	6	3	5																	94	0.79
<280	1	9	9	11	7	4	3	2		2																48	0.40
<290	1	3	10	3	6																					23	0.19
<300	1	7	8	2	3																					21	0.18
<310		11	18		1																					30	0.25
<320		12	11	2	1																					26	0.22
<330		8	9	2																						19	0.16
<340		7	25	1	1																					34	0.29
<350		14	30	5	1																					50	0.42
<360		14	34	6	2																					56	0.47
																										11863	100.00
Count	73	1182	2063	1666	1371	1119	918	871	772	622	424	271	175	114	87	54	34	17	14	7	6	3	0	0	0	11863	
%	0.62	9.96	17.39	14.04	11.56	9.43	7.74	7.34	6.51	5.24	3.57	2.28	1.48	0.96	0.73	0.46	0.29	0.14	0.12	0.06	0.05	0.03	0.00	0.00	0.00	100.00	
100.0	99.4	89.4	72.0	58.0	46.4	37.0	29.3	21.9	15.4	10.2	6.6	4.3	2.8	1.9	1.1	0.7	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 2

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		16	25	8	5					1																55	0.53
<20		14	11	1	7																					33	0.32
<30		9	19	8																						36	0.35
<40		10	18	2																						30	0.29
<50		7	13	1	2																					23	0.22
<60		11	13		2																					26	0.25
<70		7	15	7	13																					42	0.40
<80	1	9	14	19	22	10	1	2																		78	0.75
<90		9	14	12	24	19	7	2	1																	88	0.85
<100	2	2	16	10	37	23	13	1																		104	1.00
<110	1	6	13	47	54	23	28	6	6	3																187	1.80
<120	1	24	60	83	147	72	50	26	15	5																483	4.65
<130	6	60	111	91	52	19	13	11	8	7																378	3.64
<140	17	69	99	29	16	11	4	4	1	1	2	1														254	2.45
<150	16	80	57	23	14	18	13	8	3	2	4	1														239	2.30
<160	9	60	36	15	18	26	28	23	7		1	1														224	2.16
<170	13	46	36	25	19	25	26	11	4	3	2	1														211	2.03
<180	14	46	19	36	44	37	37	37	24	15	10	10	4	4	4	5										346	3.33
<190	10	63	39	50	51	48	46	35	30	16	15	7	10	5	3											428	4.12
<200	12	115	64	65	39	36	46	68	24	18	13	4	7	2	4	1										518	4.99
<210	27	252	253	160	115	100	84	70	63	41	14	8	9	5	2											1203	11.59
<220	38	431	600	396	319	253	178	147	121	109	61	46	29	10	9	4										2751	26.50
<230	7	193	338	219	185	123	107	100	85	72	47	38	13	6	2	5	1									1541	14.84
<240	1	55	83	63	25	24	23	14	17	7	4	3														319	3.07
<250	1	41	61	39	17	12	1	22	8	10	4		2													218	2.10
<260		23	39	10	4	11	9	4	4	3	6	2	1													116	1.12
<270		26	15	8	2	9	4	4	1	1		1														71	0.68
<280		18	11	10	3	2	3	1					1													48	0.46
<290		11	10	6		3				1	1															32	0.31
<300		11	8	6		1	3																			29	0.28
<310		6	12	7	1		2																			28	0.27
<320	1	11	14	5	1		1																			33	0.32
<330		23	24	5	1		1																			54	0.52
<340	1	23	32		4																					60	0.58
<350		30	19		5																					54	0.52
<360		17	12	9	2	1																				41	0.39
																										10381	100.00
Count	178	1834	2223	1475	1250	906	728	596	422	315	184	123	75	32	24	15	1	0	0	0	0	0	0	0	0	10381	
%	1.71	17.67	21.41	14.21	12.04	8.73	7.01	5.74	4.07	3.03	1.77	1.18	0.72	0.31	0.23	0.14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	98.3	80.6	59.2	45.0	33.0	24.2	17.2	11.5	7.4	4.4	2.6	1.4	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Frequency Table for Month 3

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 3

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	3	8	24	17	8	2	1						1													64	0.62
<20		8	16	10	4	2	1																			41	0.39
<30		4	28	20	3	1																				56	0.54
<40		4	20	10	4																					38	0.37
<50		1	16	13	14	1	1																			46	0.44
<60		1	6	4	11	4																				26	0.25
<70		4	18	7	19	3																				51	0.49
<80		5	17	14	14																					50	0.48
<90		2	22	20	21	4	3																			72	0.69
<100	1	6	11	32	36	10	2	1																		99	0.95
<110		8	66	107	131	48	14	6	3																	383	3.69
<120	2	43	165	195	208	81	33	8	2																	737	7.09
<130	10	75	123	87	62	23	14	3																		397	3.82
<140	25	78	84	18	13	19	7	4	3																	251	2.42
<150	36	80	38	20	10	10	6	10	6	2	2															220	2.12
<160	15	53	50	12	10	7	7	8		2	6	6	1													177	1.70
<170	12	37	31	17	8	7	8	10	9	6	2															147	1.41
<180	14	34	31	28	16	11	11	5	11	6	2	1	1	1			1									173	1.67
<190	14	57	50	38	20	28	16	10	13	4	4	4	5	6	1	1			1							272	2.62
<200	19	80	50	51	39	30	14	4	8	12	8	6	2	1	2	3	4	2								335	3.22
<210	50	251	224	143	103	65	53	39	18	20	13	4	7	5	2	2	2	4								1005	9.67
<220	66	552	653	427	309	225	171	107	103	72	56	25	29	14	10	1	1	1								2822	27.16
<230	15	280	364	281	198	163	156	113	65	61	30	17	9	8	8	4	2									1774	17.08
<240	8	67	79	72	72	54	50	17	26	13	2	2														462	4.45
<250	2	46	53	49	52	30	16	7	7	3																265	2.55
<260	1	28	45	23	10	10	12	4	4	1				1												139	1.34
<270		25	31	9	3	1	3																			72	0.69
<280		10	11	2	2	2	2																			29	0.28
<290		2	4		3																					9	0.09
<300		4	3	2	1																					10	0.10
<310		1	5	4	2		1																			13	0.13
<320		2	7	9	2																					20	0.19
<330	1	4	11	9	2																					27	0.26
<340		2	6	6	8	1																				23	0.22
<350	1	7	8	4	6	3																				29	0.28
<360		14	15	10	10	6																				55	0.53
																										10389	100.00
Count	295	1883	2385	1770	1434	851	602	356	278	202	125	65	55	36	23	11	10	7	1	0	0	0	0	0	0	10389	
%	2.84	18.12	22.96	17.04	13.80	8.19	5.79	3.43	2.68	1.94	1.20	0.63	0.53	0.35	0.22	0.11	0.10	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	97.2	79.0	56.1	39.0	25.2	17.1	11.3	7.8	5.1	3.2	2.0	1.4	0.8	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 4

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	2	28	22	11	1																					64	0.58
<20	1	23	52	13																						89	0.81
<30		15	27	17	1																					60	0.55
<40	1	7	33	15	5																					61	0.56
<50		11	17	12	3																					43	0.39
<60		13	10	10	1																					34	0.31
<70		7	17	10	4																					38	0.35
<80	1	26	35	35	8	1																				106	0.97
<90	1	23	53	61	19	6	2																			165	1.50
<100	2	36	64	82	19	10	8	4																		225	2.05
<110	4	49	395	118	29	12	5	3	2																	617	5.62
<120	16	155	248	109	25	9	11	19	3	5																600	5.47
<130	32	196	176	71	11	5	9	6																		506	4.61
<140	49	163	70	12	8																					302	2.75
<150	33	120	19	4	6																					182	1.66
<160	26	96	16	4	3	2																				147	1.34
<170	25	64	15	10	4	6																				124	1.13
<180	24	57	33	14	10	18	6	8	3	2	4				1											180	1.64
<190	13	64	38	33	16	21	9	8	2	2	1	3	3	1												214	1.95
<200	29	107	60	34	19	15	11	8	5	3	3	3	2	4												303	2.76
<210	75	393	236	90	49	22	36	16	12	7	2	2														940	8.57
<220	133	1039	836	382	229	136	79	39	29	14	5	2														2923	26.64
<230	43	519	483	272	168	116	80	55	57	8	2															1803	16.43
<240	13	127	179	139	77	52	27	13	3	2																632	5.76
<250		76	106	49	23	24	4	3																		285	2.60
<260		37	43	9	7	4																				100	0.91
<270	2	17	18	6																						43	0.39
<280	1	4	11	1																						17	0.15
<290		3	2																							5	0.05
<300		4	3																							7	0.06
<310		8	3																							11	0.10
<320		10	13	2	1																					26	0.24
<330		12	7	5	2																					26	0.24
<340	2	13	9	4																						28	0.26
<350	1	17	10	2																						30	0.27
<360	3	16	14	4																						37	0.34
																										10973	100.00
Count	532	3555	3373	1640	748	459	287	182	116	43	17	10	5	6	0	0	0	0	0	0	0	0	0	0	0	10973	
%	4.85	32.40	30.74	14.95	6.82	4.18	2.62	1.66	1.06	0.39	0.15	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	95.2	62.8	32.0	17.1	10.2	6.1	3.4	1.8	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 5

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	1	21	15	3	2																					42	0.43
<20		11	10	3	1																					25	0.26
<30		10	14	6	4																					34	0.35
<40		18	13	7	1																					39	0.40
<50		8	8	8	2																					26	0.27
<60	1	11	2	2	3																					19	0.19
<70	1	17	16	3																						37	0.38
<80	2	26	28	24	11	4	1																			96	0.98
<90	2	36	52	60	48	39	10																			247	2.53
<100		39	92	73	46	30	9																			289	2.96
<110	1	62	161	189	98	37	11	5																		564	5.78
<120	16	121	236	226	92	54	20	4																		769	7.88
<130	34	186	212	89	18	8	8																			555	5.69
<140	48	174	104	13		4	2	3																		348	3.57
<150	26	128	37	5	1	2	2																			201	2.06
<160	23	69	9	3	4	5	1	2																		116	1.19
<170	14	58	8	7	3	2	6	3																		101	1.04
<180	12	77	22	5	5	10	10	7	3	1	2															154	1.58
<190	19	74	32	13	7	5	17	17	2	7	2	1		2												198	2.03
<200	22	87	52	14	10	15	14	14	6	3	1	1	2	2												243	2.49
<210	36	215	132	44	23	27	25	10	4	13	6	1	4	1												541	5.55
<220	68	728	598	295	136	98	89	53	31	29	15	8	9	9	1	3										2170	22.25
<230	22	354	386	234	146	104	113	97	73	36	39	20	7	4	3	2										1640	16.81
<240	10	89	126	119	117	105	80	35	27	7		1	1													717	7.35
<250	2	34	87	76	42	24	11	3		1																280	2.87
<260	1	16	42	19	5	4																				87	0.89
<270	2	9	34	9	3																					57	0.58
<280	1	8	4	2	2																					17	0.17
<290	1	6	3	4																						14	0.14
<300		2	1	3																						6	0.06
<310		3	2																							5	0.05
<320		6	3																							9	0.09
<330		5	15	3	3																					26	0.27
<340		6	9	2	4																					21	0.22
<350	1	8	7	1	8																					25	0.26
<360		15	11	1	8	2																				37	0.38
																										9755	100.00
Count	366	2737	2583	1565	853	579	429	253	146	97	65	32	23	18	4	5	0	0	0	0	0	0	0	0	0	9755	
%	3.75	28.06	26.48	16.04	8.74	5.94	4.40	2.59	1.50	0.99	0.67	0.33	0.24	0.18	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	96.3	68.2	41.7	25.7	16.9	11.0	6.6	4.0	2.5	1.5	0.8	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 6

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		29	17																							46	0.47
<20		19	13		1																					33	0.34
<30		9	11	3																						23	0.24
<40	2	11	4	2																						19	0.20
<50	1	5	8	2																						16	0.16
<60		11	4	5	1																					21	0.22
<70	3	13	16	4	5																					41	0.42
<80	1	25	37	19	5																					87	0.89
<90	3	33	62	22	18																					138	1.42
<100	6	31	90	39	20	9																				195	2.00
<110	6	56	118	88	40	4																				312	3.20
<120	33	126	195	105	43	1																				503	5.16
<130	65	179	174	71	10	1																				500	5.13
<140	65	204	102	14	3	1	2																			391	4.01
<150	66	137	54	18	2																					277	2.84
<160	49	125	19	5	6	1																				205	2.10
<170	33	76	20	5	2	1	2																			139	1.43
<180	17	73	31	7		1	5																			134	1.38
<190	28	80	47	15	1	3	9	3	2	1																189	1.94
<200	21	96	47	23	18	2	9	5	1	1																223	2.29
<210	83	340	115	40	31	9	6	3	1		2	3		1												634	6.51
<220	102	947	576	188	61	44	32	9	9	7	5	13	5	1	2	1	4	3	3	1						2013	20.66
<230	39	445	453	288	127	116	65	36	29	15	10	3		1				1								1628	16.71
<240	12	128	174	225	190	136	108	52	25	4			1													1055	10.83
<250	9	124	137	146	115	53	21	9																		614	6.30
<260	4	64	42	16	12																					138	1.42
<270		15	11	6	2																					34	0.35
<280		6	2																							8	0.08
<290	1	1	2	1	1																					6	0.06
<300		3	3	2																						8	0.08
<310		5	3		3																					11	0.11
<320	1	4	3	2																						10	0.10
<330		3	4																							7	0.07
<340		10	6																							16	0.16
<350	1	18	14																							33	0.34
<360	1	28	7																							36	0.37
																										9743	100.00
Count	652	3479	2621	1361	717	382	259	117	67	28	17	19	6	3	2	1	4	4	3	1	0	0	0	0	0	9743	
%	6.69	35.71	26.90	13.97	7.36	3.92	2.66	1.20	0.69	0.29	0.17	0.20	0.06	0.03	0.02	0.01	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	93.3	57.6	30.7	16.7	9.4	5.5	2.8	1.6	0.9	0.6	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Frequency Table for Month 7

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 7

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		19	5		1																					25	0.23
<20		10	6																							16	0.15
<30		9	2																							11	0.10
<40	1	7	1																							9	0.08
<50		3																								3	0.03
<60		5	1																							6	0.06
<70		5	1	2																						8	0.07
<80	1	12	7	4																						24	0.22
<90	4	16	7	7	6		1																			41	0.38
<100		38	23	16	14	6	2																			99	0.91
<110	5	57	50	33	24	5	4	4																		182	1.67
<120	13	127	97	70	24	8	4	1	2																	346	3.18
<130	20	155	77	44	16	4	2	1	1																	320	2.94
<140	32	122	55	10	8	2	1	3	1																	234	2.15
<150	38	118	38	3	5	2	1	2																		207	1.90
<160	38	80	24	3		3	2	2	1																	153	1.40
<170	28	61	23	6	7		4	3	1	2	1															136	1.25
<180	20	68	22	12	12	3	10		1	1	1															150	1.38
<190	16	80	39	23	12	8	3	7		1																189	1.73
<200	22	122	73	48	31	15	11	7	3	2																334	3.07
<210	20	301	134	94	47	46	20	18	19	6	3	1														709	6.51
<220	41	726	586	281	188	119	74	44	50	36	36	9	6	5												2201	20.20
<230	40	470	583	370	336	269	168	123	94	41	16	10	8	4												2532	23.24
<240	7	144	349	299	323	241	131	56	37	13																1600	14.68
<250	2	98	254	225	167	94	29	12	4	1	1															887	8.14
<260	2	48	69	53	50	14	8	3		1																248	2.28
<270		13	21	13	11	4	2																			64	0.59
<280	2	9	13	4																						28	0.26
<290		7	10	4	1																					22	0.20
<300		10	6	1																						17	0.16
<310		7	9																							16	0.15
<320		2	6																							8	0.07
<330		3	4																							7	0.06
<340		14	10																							24	0.22
<350	1	11	10																							22	0.20
<360	1	14	4																							19	0.17
																										10897	100.00
Count	354	2991	2619	1625	1283	843	477	286	214	104	58	20	14	9	0	0	0	0	0	0	0	0	0	0	0	10897	
%	3.25	27.45	24.03	14.91	11.77	7.74	4.38	2.62	1.96	0.95	0.53	0.18	0.13	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	96.8	69.3	45.3	30.4	18.6	10.9	6.5	3.9	1.9	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Frequency Table for Month 8

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 8

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	1	31	30	20	3																					85	0.73
<20	1	17	27	12																						57	0.49
<30		18	15	3																						36	0.31
<40		12	16																							28	0.24
<50		14	5	1																						20	0.17
<60	2	10	5																							17	0.15
<70	1	7	12	4																						24	0.21
<80	2	18	20	8	5	1																				54	0.47
<90	2	22	35	12	8	1																				80	0.69
<100	6	28	37	26	17	5	1																			120	1.03
<110	5	46	57	33	7	4	1																			153	1.32
<120	21	100	91	39	9	3	1																			264	2.28
<130	19	115	93	32	10	3	1																			273	2.35
<140	35	127	72	16	12	12	1																			275	2.37
<150	25	103	37	12	20	4	3																			204	1.76
<160	26	98	41	12	22	7	2																			208	1.79
<170	23	87	25	28	34	6	1			1																205	1.77
<180	14	88	44	43	29	8	1	2	3	2	2	2														238	2.05
<190	15	131	53	36	30	21	12	9	3	3	6	1														320	2.76
<200	21	163	63	35	16	14	19	17	10	4	4	3														369	3.18
<210	18	342	177	92	37	30	37	29	24	10	2	1														799	6.89
<220	38	736	624	395	198	135	83	57	40	33	13	16	4	2	2											2376	20.49
<230	17	441	594	439	376	286	172	116	52	37	25	19	7	5	2											2588	22.31
<240	3	149	255	244	244	172	125	35	17	9																1253	10.80
<250	9	109	237	170	109	46	12	2	1																	695	5.99
<260	2	66	97	47	24	4																				240	2.07
<270		49	40	13	6	1																				109	0.94
<280		25	15	8	2		1																			51	0.44
<290		9	16	3	1																					29	0.25
<300		13	6	1																						20	0.17
<310		19	20	11																						50	0.43
<320		15	17	7																						39	0.34
<330		13	18	13																						44	0.38
<340	3	32	28	10																						73	0.63
<350	1	42	38	30	7																					118	1.02
<360	2	30	28	17	7																					84	0.72
																										11598	100.00
Count	312	3325	2988	1872	1233	763	473	267	151	98	52	42	11	7	4	0	0	0	0	0	0	0	0	0	0	11598	
%	2.69	28.67	25.76	16.14	10.63	6.58	4.08	2.30	1.30	0.84	0.45	0.36	0.09	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	97.3	68.6	42.9	26.7	16.1	9.5	5.4	3.1	1.8	1.0	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 9

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	2	49	34	29	2						1															117	1.03
<20	1	25	36	14	4																					80	0.71
<30		26	23	22	7																					78	0.69
<40	1	16	23	16	4																					60	0.53
<50		11	7	12	4																					34	0.30
<60		15	12	7	2																					36	0.32
<70		11	26	10	4																					51	0.45
<80	1	15	39	15	3																					73	0.65
<90	1	20	36	24	5	1																				87	0.77
<100	1	26	35	38	10	4	2																			116	1.03
<110	8	46	72	111	75	13	8	1	3																	337	2.98
<120	16	83	125	207	86	17	12	1	6	1																554	4.90
<130	24	100	165	112	18	8	7	3	4																	441	3.90
<140	38	137	427	58	17	5	6																			688	6.08
<150	44	150	60	28	6	5	9	5	1	1																309	2.73
<160	26	136	35	13	12	1	5		2																	230	2.03
<170	23	82	25	13	5	3																				151	1.34
<180	18	98	22	23	10	8	1	4	2	4	3															193	1.71
<190	26	88	55	33	12	11	11	2	4	7	7															256	2.26
<200	36	110	53	42	18	20	17	7	1	2	4		1													311	2.75
<210	39	247	173	121	78	44	35	17	17	15	15	10	1													812	7.18
<220	63	609	542	338	220	135	77	74	58	58	36	18	13	6	1	1										2249	19.89
<230	46	272	340	241	263	243	178	138	104	62	39	23	9	5		1										1964	17.37
<240	9	117	160	111	132	94	96	64	29	16	4															832	7.36
<250	7	110	149	70	77	48	31	10	4																	506	4.47
<260	1	53	58	36	21	27	5																			201	1.78
<270	3	34	34	10	5		1	2																		89	0.79
<280	1	14	23	5	2																					45	0.40
<290		13	15	5																						33	0.29
<300		13	13	2																						28	0.25
<310		8	13	5																						26	0.23
<320		7	30	7																						44	0.39
<330		10	27	7		1	1																			46	0.41
<340	1	21	51	14	2	1																				90	0.80
<350		19	48	8		1																				76	0.67
<360	1	23	27	15																						66	0.58
																										11309	100.00
Count	437	2814	3013	1822	1104	690	502	328	235	166	109	51	24	11	1	2	0	0	0	0	0	0	0	0	0	11309	
%	3.86	24.88	26.64	16.11	9.76	6.10	4.44	2.90	2.08	1.47	0.96	0.45	0.21	0.10	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	96.1	71.3	44.6	28.5	18.8	12.7	8.2	5.3	3.2	1.8	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m

Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 10

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		21	17	5	2							1														46	0.39
<20		13	29	2	1																					45	0.38
<30		20	12	5																						37	0.31
<40		4	11	3																						18	0.15
<50		8	10											1												19	0.16
<60		2	14	1																						17	0.14
<70		6	10	5																						21	0.18
<80		12	24	8	3																					47	0.40
<90		16	29	9	14	4	1	1																		74	0.63
<100		26	29	18	39	27	15	22	2																	178	1.51
<110		37	45	83	75	54	20	22	3																	339	2.87
<120		62	133	197	154	75	49	64	29	7		1														771	6.52
<130	4	89	118	130	123	49	20	23	5	5	3	3														572	4.84
<140	6	107	100	50	61	33	8	10	6	6	8	5	1													401	3.39
<150	3	103	60	30	40	38	20	19	4	2	5	9														333	2.82
<160	4	71	42	68	43	47	31	29	20	7	5	6	5													378	3.20
<170	3	49	26	41	68	50	33	25	11	7	8	4	2	1												328	2.78
<180	5	56	34	49	59	42	35	43	27	28	24	2	6	3	1											414	3.50
<190	4	63	48	50	59	47	63	60	36	29	23	9	8	6	5	2										512	4.33
<200	1	90	42	78	79	57	50	30	27	41	26	21	13	1	4	2										562	4.76
<210	3	205	151	92	107	117	67	74	71	67	54	30	25	5												1068	9.04
<220	7	413	566	399	285	210	152	133	119	104	86	59	29	12	8	7	2									2591	21.92
<230	1	175	372	324	242	167	164	91	70	60	62	41	19	7	3											1798	15.21
<240	1	51	80	68	51	61	39	24	22	6	6	1		1												411	3.48
<250		25	43	77	33	38	12	7	3																	238	2.01
<260		25	50	39	20	26	4	2	4																	170	1.44
<270		20	34	4	10	10	4	1																		83	0.70
<280		8	14	3	8	4	2																			39	0.33
<290	1	13	12	8	2	3																				39	0.33
<300		9	18	2	2	2																				33	0.28
<310	1	2	17	5	1																					26	0.22
<320		12	16	6	2																					36	0.30
<330		13	19	12																						44	0.37
<340	2	16	22	9																						49	0.41
<350		21	16	3	1	1																				42	0.36
<360		23	16		1																					40	0.34
																										11819	100.00
Count	46	1886	2279	1883	1585	1162	789	680	459	369	310	192	108	37	21	11	2	0	0	0	0	0	0	0	0	11819	
%	0.39	15.96	19.28	15.93	13.41	9.83	6.68	5.75	3.88	3.12	2.62	1.62	0.91	0.31	0.18	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	99.6	83.7	64.4	48.4	35.0	25.2	18.5	12.8	8.9	5.8	3.2	1.5	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 11

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10		44	51	3	1																					99	0.91
<20		25	32	6			1																			64	0.59
<30		8	45	7	2																					62	0.57
<40		1	14	9	2	1	1																			28	0.26
<50	1	2	9	4	5	1																				22	0.20
<60		4	6	4	1																					15	0.14
<70		4	10	7	4																					25	0.23
<80		3	13	8	7																					31	0.29
<90		8	19	12	2	4	2																			47	0.43
<100		23	15	7	6	4	6																			61	0.56
<110		34	64	50	25	5	1																			179	1.65
<120	4	55	116	131	43	17	4	2																		372	3.44
<130	5	89	121	66	32	9	5	1	1																	329	3.04
<140	6	119	59	24	10	9	1	6	1																	235	2.17
<150	12	86	31	17	6	12	3	2		2	1															172	1.59
<160	12	101	46	25	12	8	7	10	2	2	5	2	1	3	1	2	3									242	2.24
<170	8	60	29	24	21	16	9	6	8	17	13	11	4	1	2		2									231	2.13
<180	9	40	25	33	54	37	29	14	12	37	30	18	11	8	5	1				1						364	3.36
<190	6	57	32	40	18	34	23	28	48	57	61	30	17	11	4	5	1	1	1							474	4.38
<200	8	86	56	47	38	50	57	39	47	52	53	50	26	24	18	11	5	4	3							674	6.23
<210	13	170	126	75	84	95	94	78	46	79	99	52	48	42	33	22	10	9	4	2						1181	10.91
<220	20	293	361	265	230	166	173	165	138	119	98	59	52	27	39	37	19	11	5							2277	21.04
<230	14	184	272	261	192	182	200	145	117	110	50	42	30	14	9	5	3									1830	16.91
<240	1	68	83	75	60	72	60	48	13	6	5	3														494	4.57
<250	1	58	79	72	73	70	39	11	1	1																405	3.74
<260		43	55	35	51	27	10	2	1																	224	2.07
<270		38	44	14	9	3	6	2																		116	1.07
<280	1	18	17	8	3	2	1																			50	0.46
<290	2	19	5	4			2	1																		33	0.30
<300	1	12	8	3	1	3																				28	0.26
<310	1	7	14	1	2																					25	0.23
<320		16	31	3	2																					52	0.48
<330	1	26	46	8	1																					82	0.76
<340		42	50	20	1																					113	1.04
<350	1	30	48	20																						99	0.91
<360		26	46	10	3																					85	0.79
																										10820	100.00
Count	127	1899	2078	1398	1001	827	734	560	435	482	415	267	189	130	111	83	43	25	13	3	0	0	0	0	0	10820	
%	1.17	17.55	19.21	12.92	9.25	7.64	6.78	5.18	4.02	4.45	3.84	2.47	1.75	1.20	1.03	0.77	0.40	0.23	0.12	0.03	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	98.8	81.3	62.1	49.2	39.9	32.3	25.5	20.3	16.3	11.8	8.0	5.5	3.8	2.6	1.5	0.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

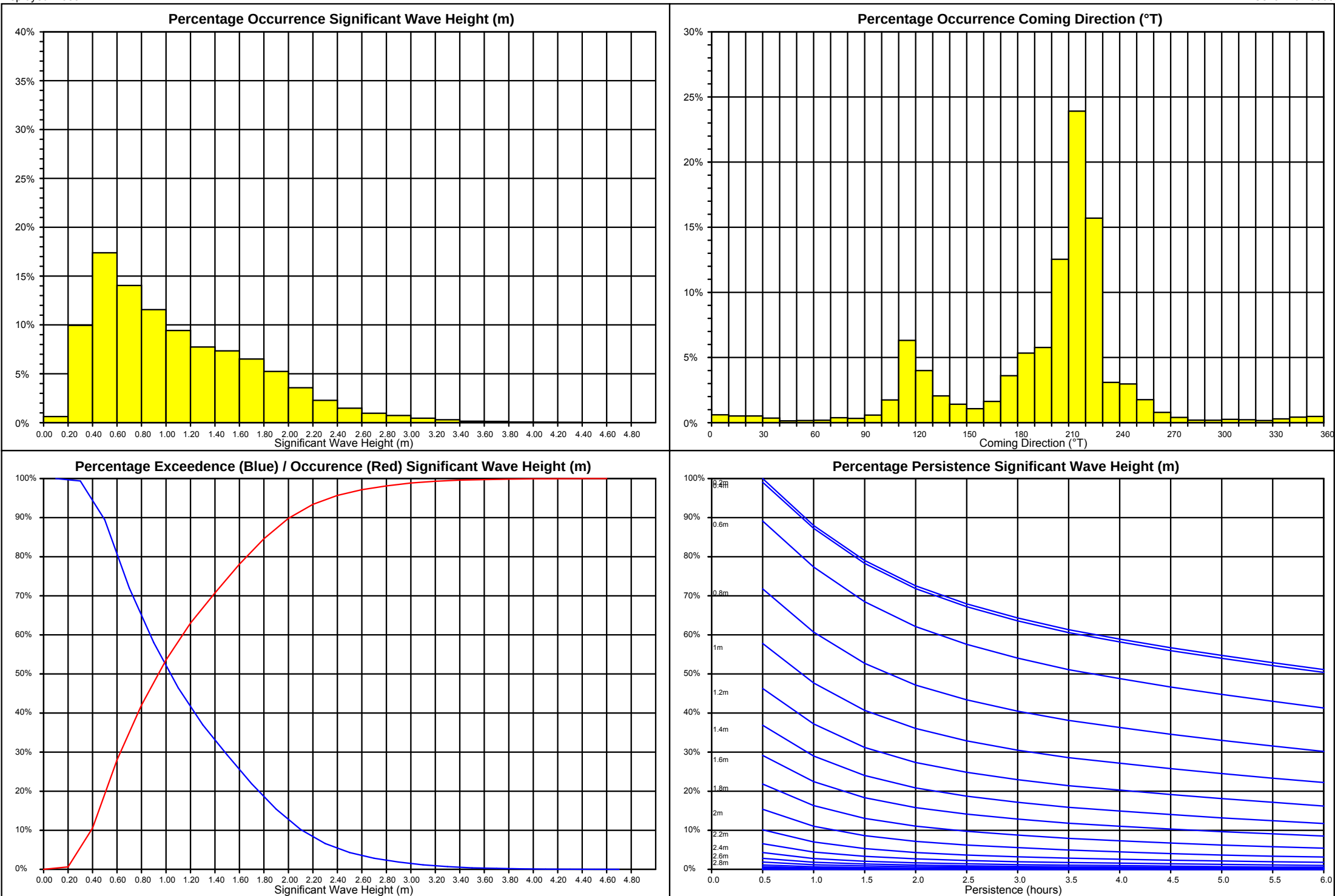
Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 12

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<10	1	30	44	12	2																					89	0.77
<20		14	34	17	2																					67	0.58
<30		16	23	16	4																					59	0.51
<40		8	15	16	7																					46	0.40
<50		5	6	5	4																					20	0.17
<60		5	5	3	1																					14	0.12
<70		4	14	1	4																					23	0.20
<80	1	8	11	6	3	1																				30	0.26
<90	1	8	20	9	4	4																				46	0.40
<100		9	22	21	10	18	16	6																		102	0.88
<110	1	12	50	64	38	52	18	9	3	1																248	2.14
<120	4	39	141	231	126	108	50	37	13	2	1															752	6.48
<130	2	79	192	218	114	43	12	17	3	1																681	5.87
<140	2	84	127	62	26	10	5	3				1														320	2.76
<150	4	63	44	24	10	10	12	6				1														174	1.50
<160	9	42	27	17	27	10	14	13	2	1	3		1													166	1.43
<170	5	35	20	16	9	10	9	17	7	7	4	2	2	1	1	1	2	1	1	1						151	1.30
<180	4	30	34	31	24	23	16	20	21	15	7	4	5	4	10	15	17	4	5	1	2					292	2.52
<190	7	68	54	39	45	35	32	34	28	33	17	6	8	10	11	14	8	5	3	3						460	3.97
<200	8	100	90	65	42	41	35	72	75	47	46	33	26	13	11	9	8	6	7	3	1		1		1	740	6.38
<210	9	198	217	149	101	80	66	76	82	63	63	37	41	29	14	16	4	10	1		1					1257	10.84
<220	11	399	542	345	242	188	170	148	138	119	99	81	44	41	38	19	4	2	1		1					2632	22.69
<230	2	203	371	282	221	175	137	135	108	98	61	45	11	12	8	6	5	2								1882	16.22
<240		48	77	53	55	58	28	22	20	9	6	5	3													384	3.31
<250	2	18	73	58	36	46	10	5	9	5	8	3	1													274	2.36
<260		12	31	30	36	13	6	1	5	4	2	1														141	1.22
<270		18	28	19	18	5	6	1	2																	97	0.84
<280		8	18	8	8	5	3																			50	0.43
<290	3	7	9	2		2																				23	0.20
<300	4	12	8																							24	0.21
<310	4	16	7																							27	0.23
<320	5	23	6																							34	0.29
<330	11	28	3	2	1																					45	0.39
<340	24	43	3	5	2																					77	0.66
<350	24	52	5																							81	0.70
<360	31	53	8																							92	0.79
																										11600	100.00
Count	73	1669	2564	1866	1228	938	647	622	516	405	317	219	142	110	93	80	48	30	18	8	5	0	1	0	1	11600	
%	0.63	14.39	22.10	16.09	10.59	8.09	5.58	5.36	4.45	3.49	2.73	1.89	1.22	0.95	0.80	0.69	0.41	0.26	0.16	0.07	0.04	0.00	0.01	0.00	0.01	100.00	
100.0	99.4	85.0	62.9	46.8	36.2	28.1	22.5	17.2	12.7	9.2	6.5	4.6	3.4	2.4	1.6	1.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	% Exceedence	

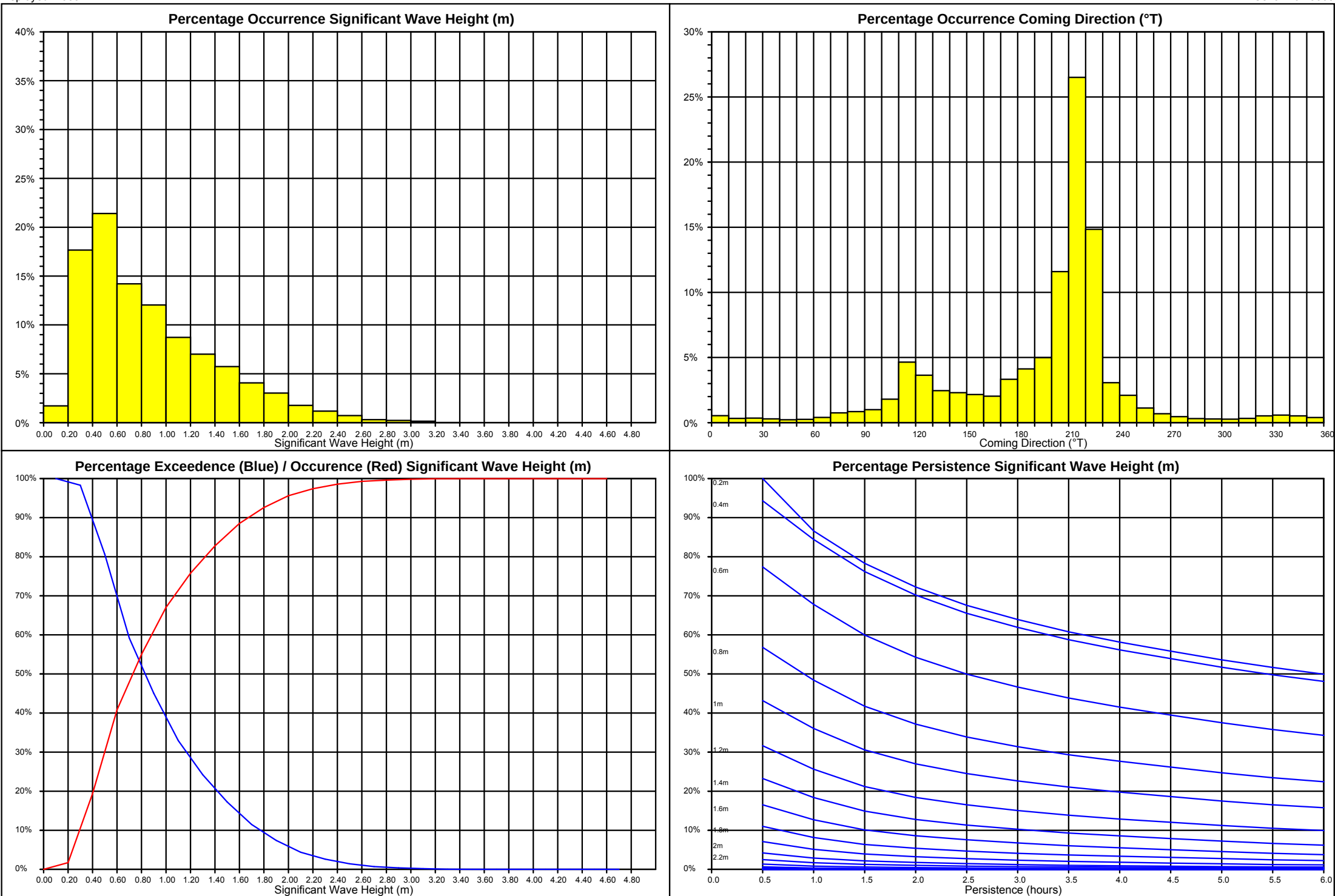
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000



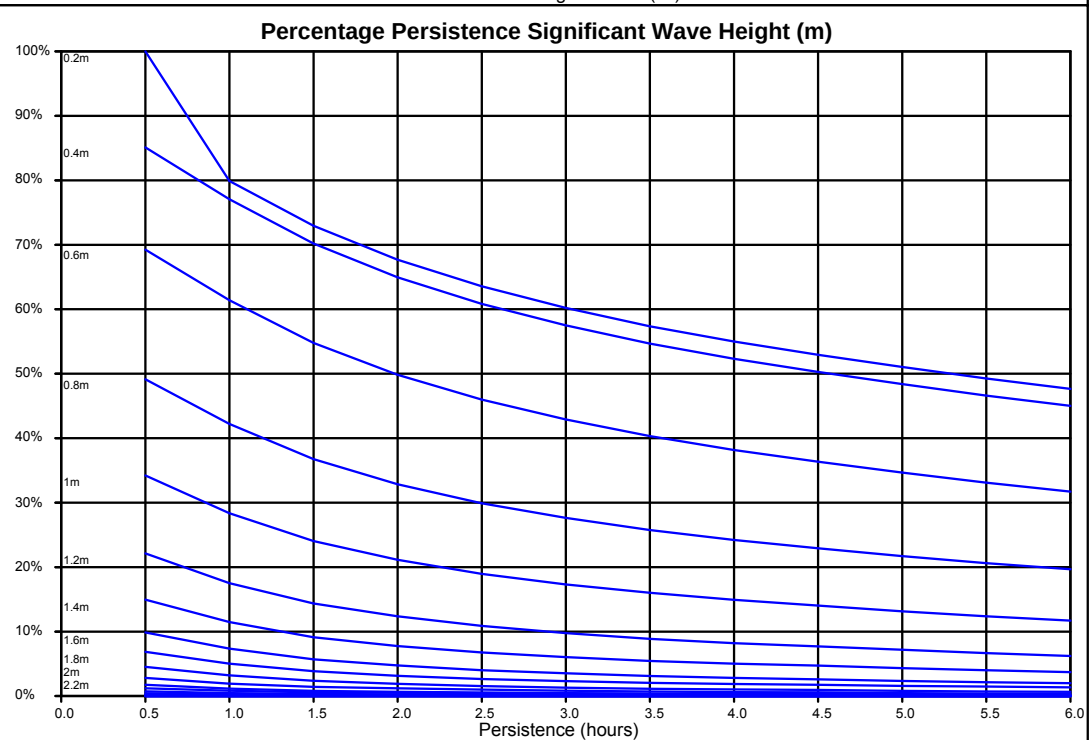
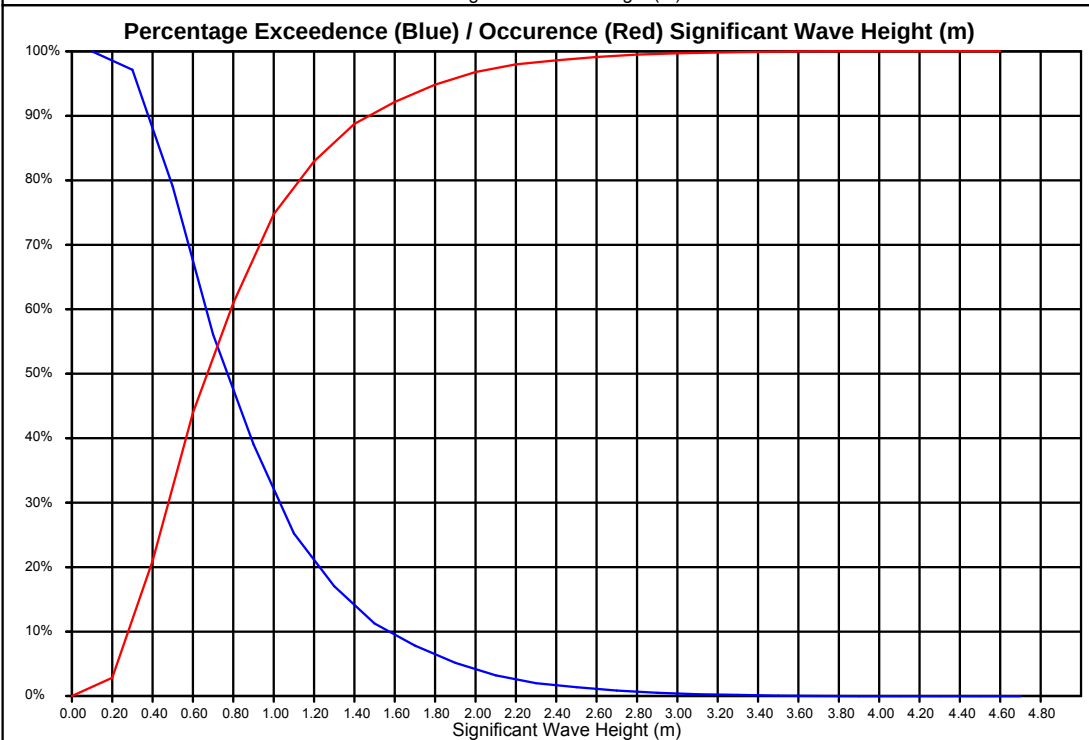
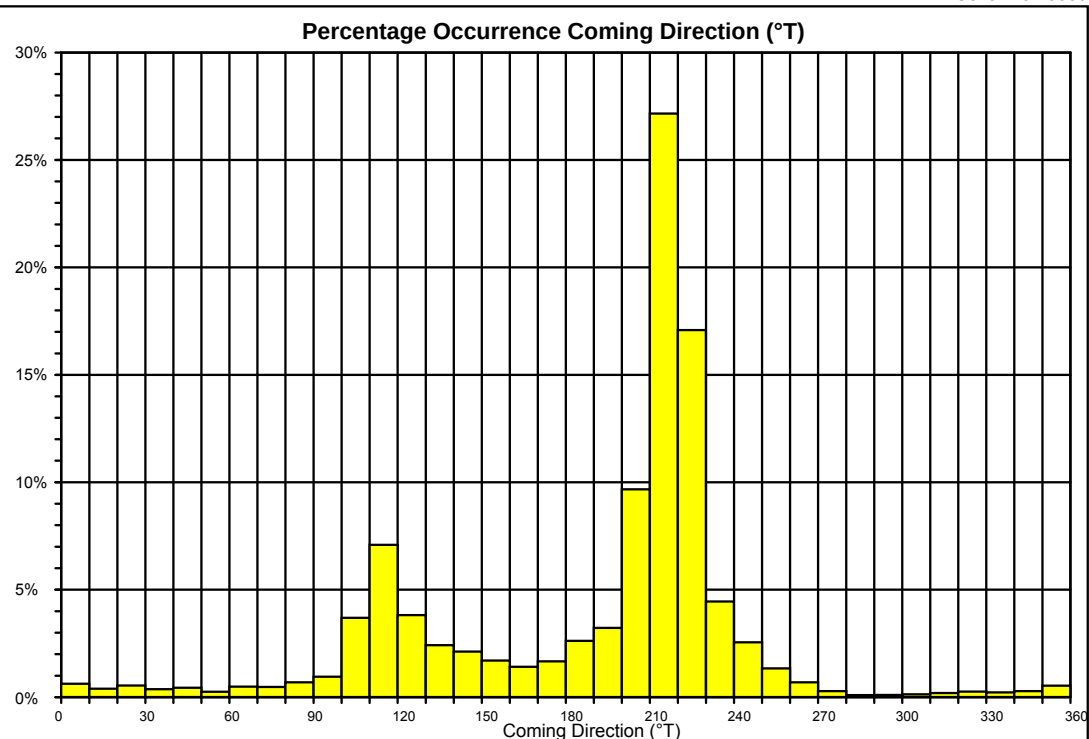
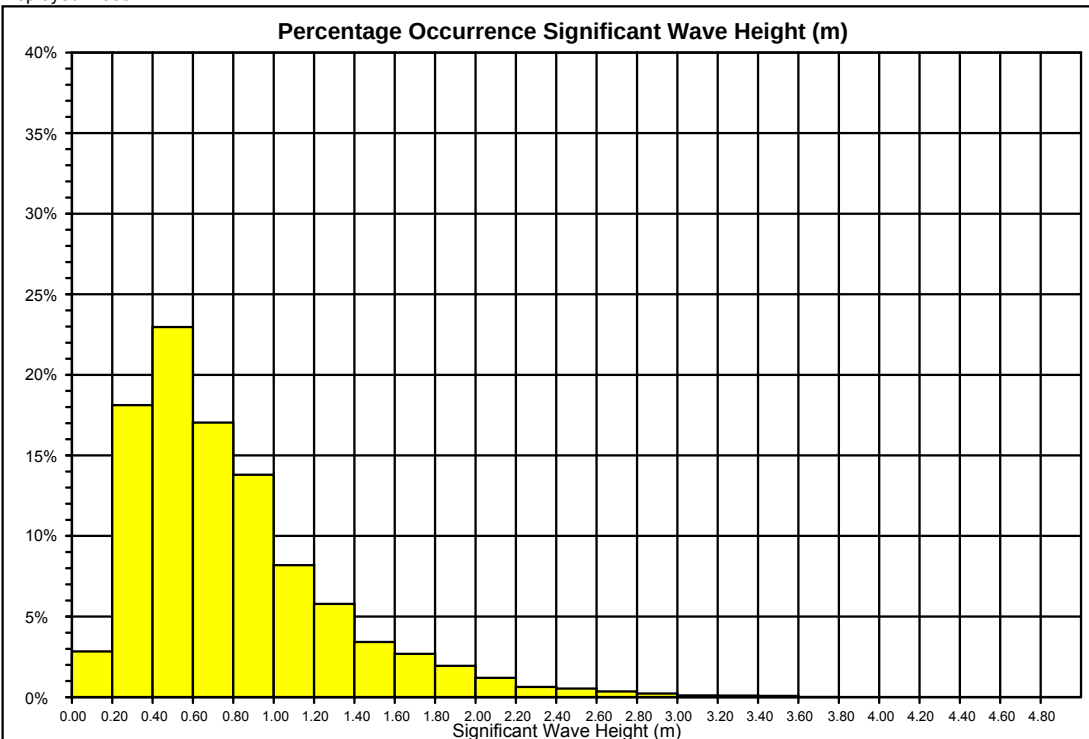
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000



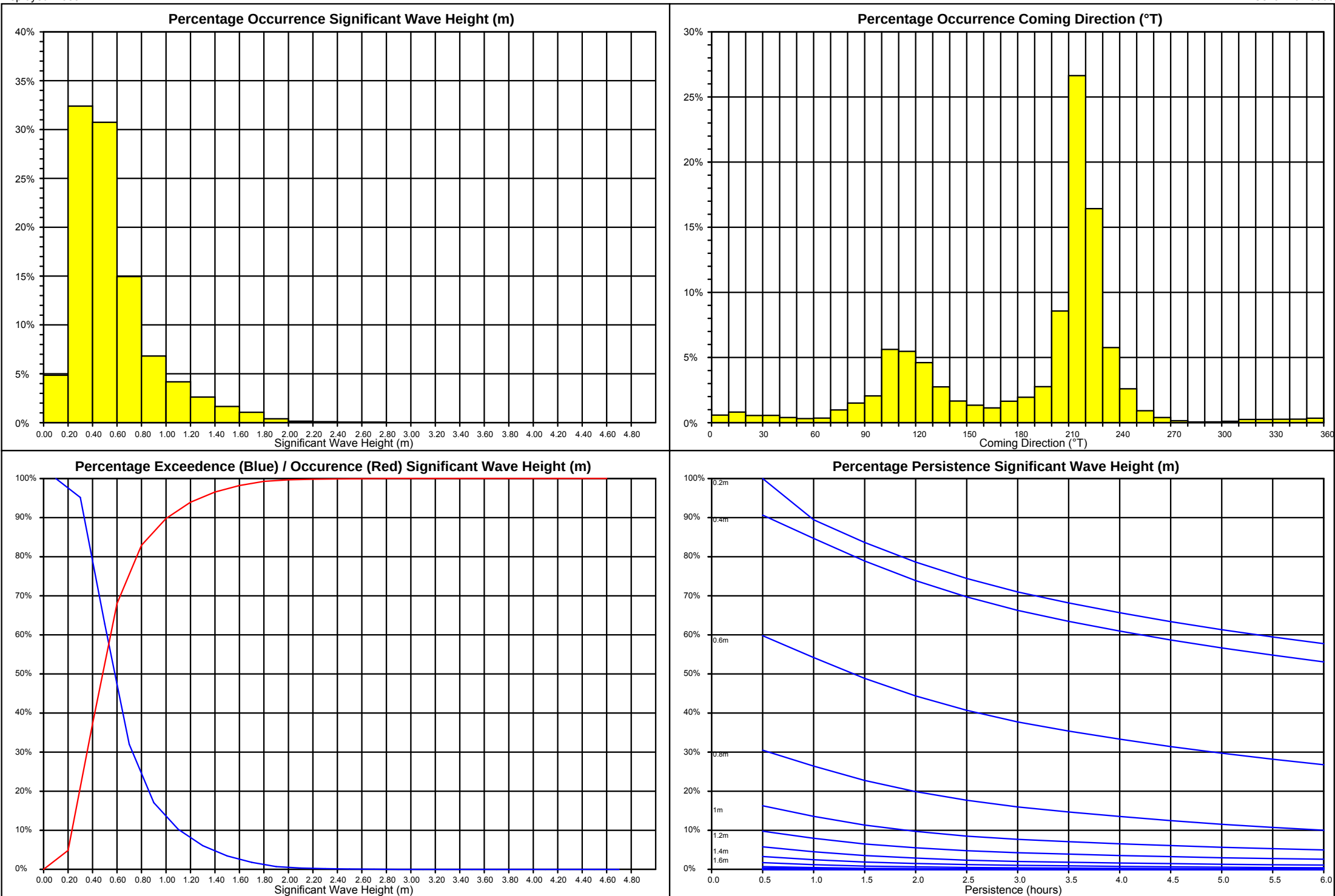
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

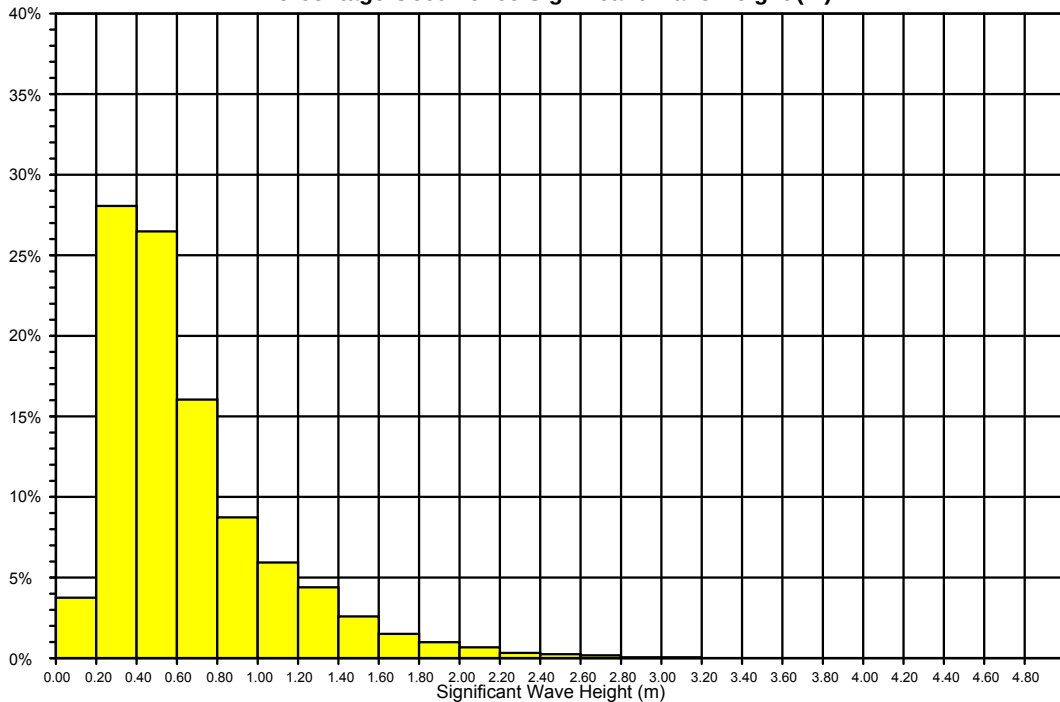


Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

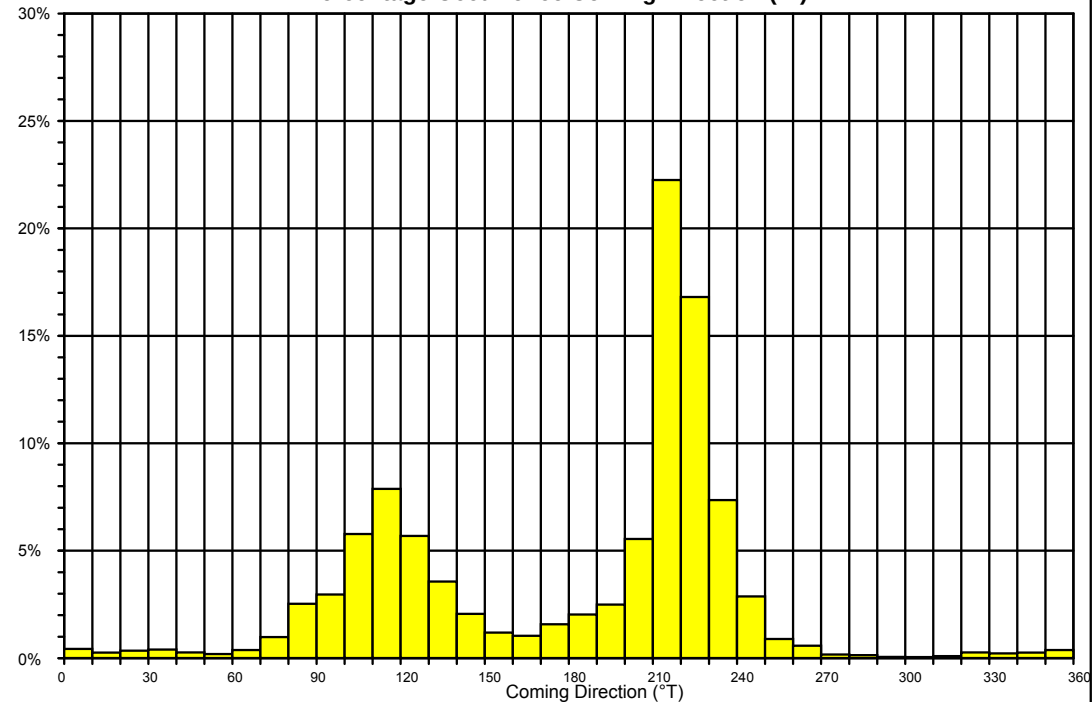
Wave Buoy / CCOData
Serial No.: 0000



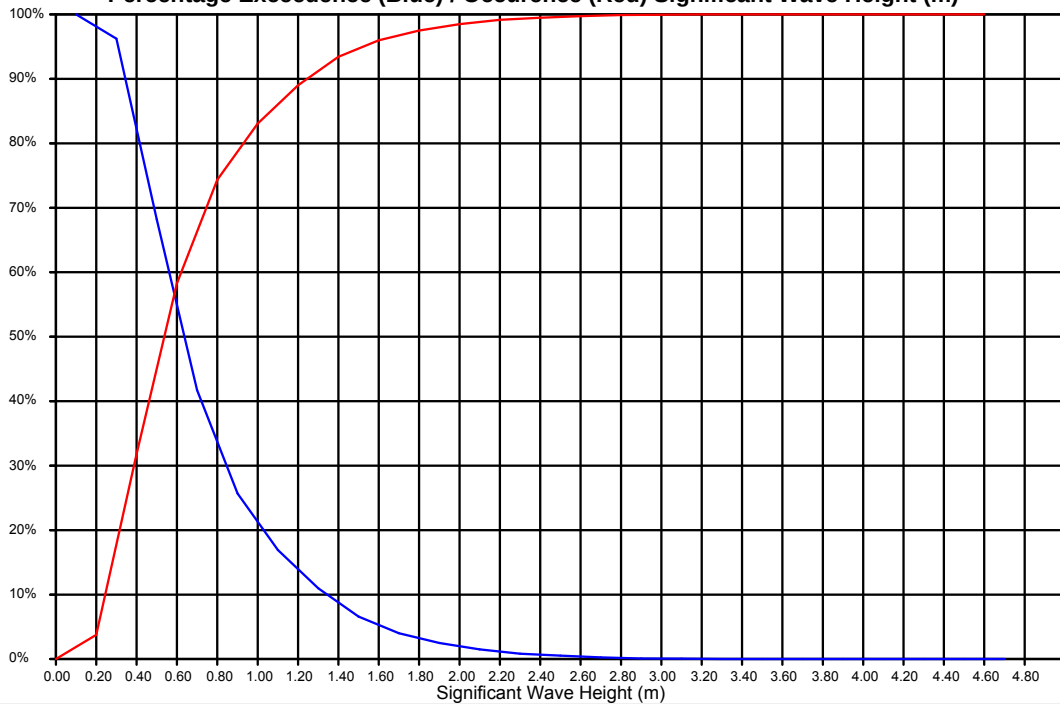
Percentage Occurrence Significant Wave Height (m)



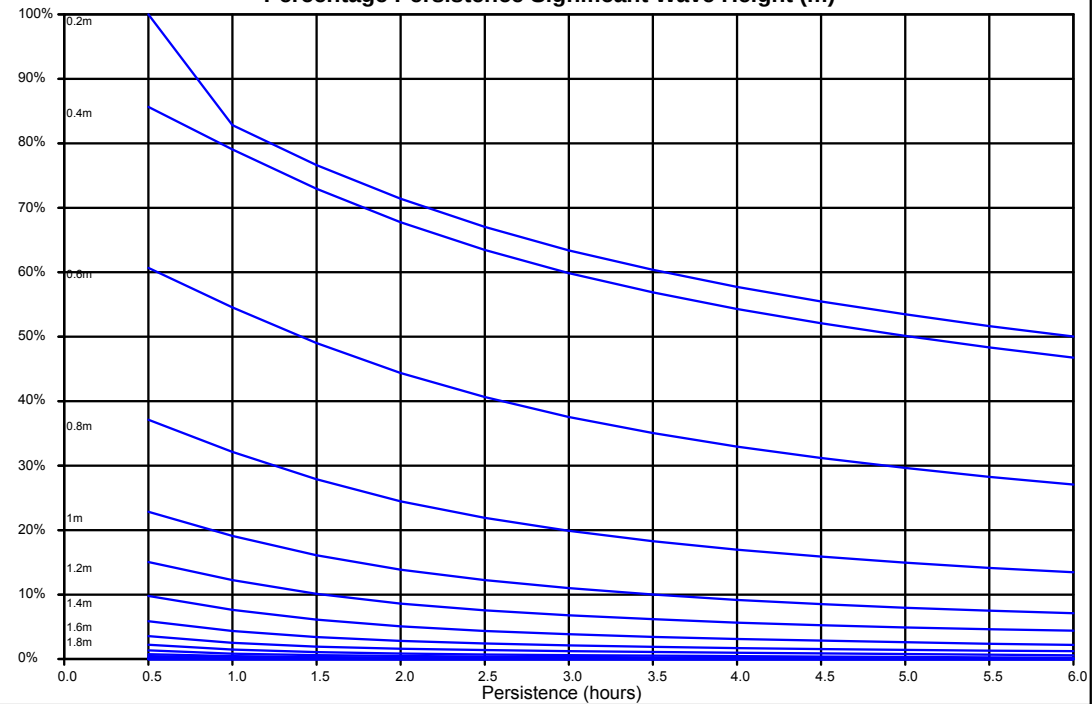
Percentage Occurrence Coming Direction (°T)



Percentage Exceedence (Blue) / Occurrence (Red) Significant Wave Height (m)

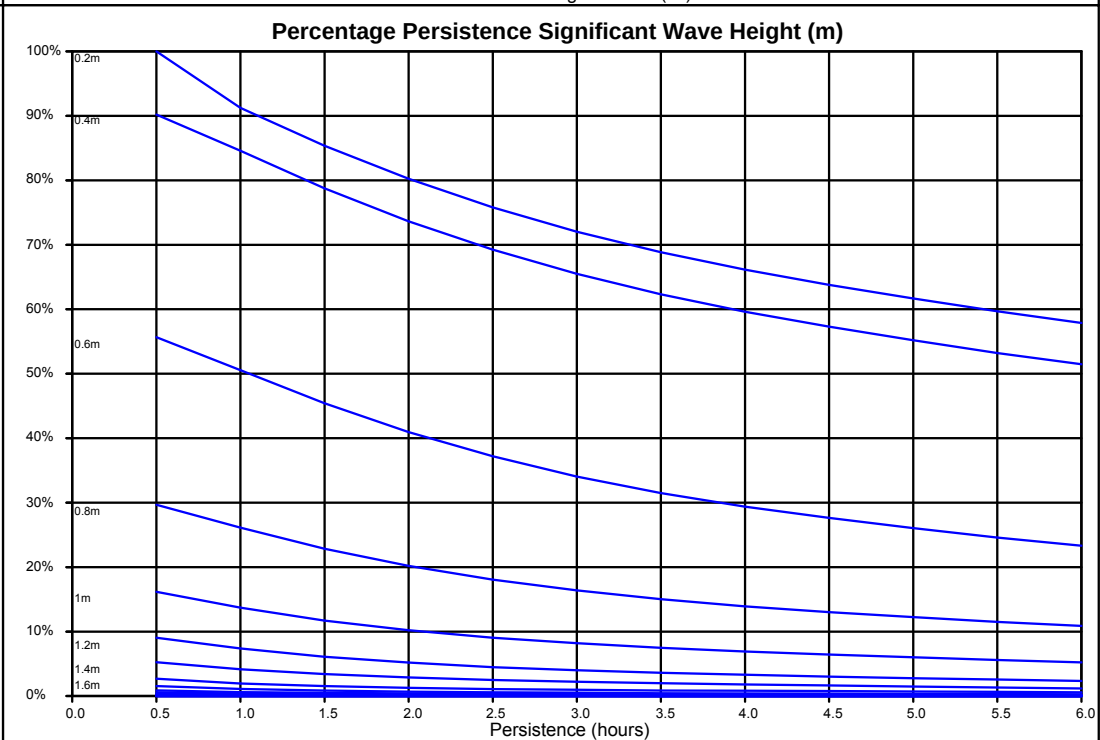
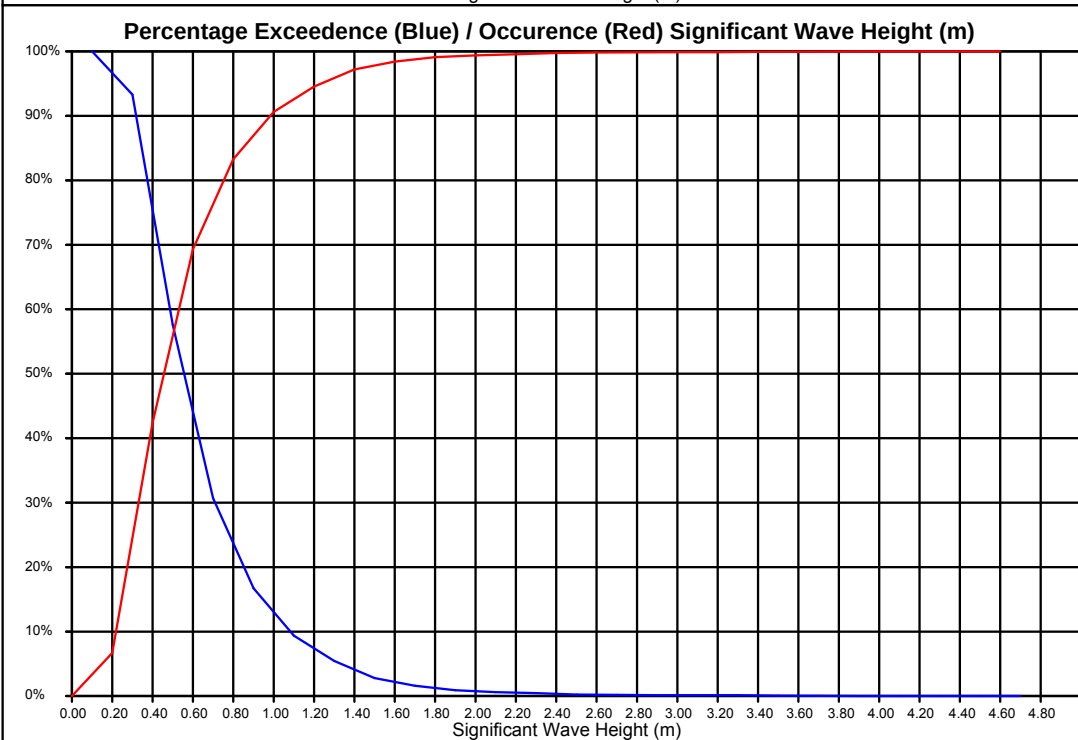
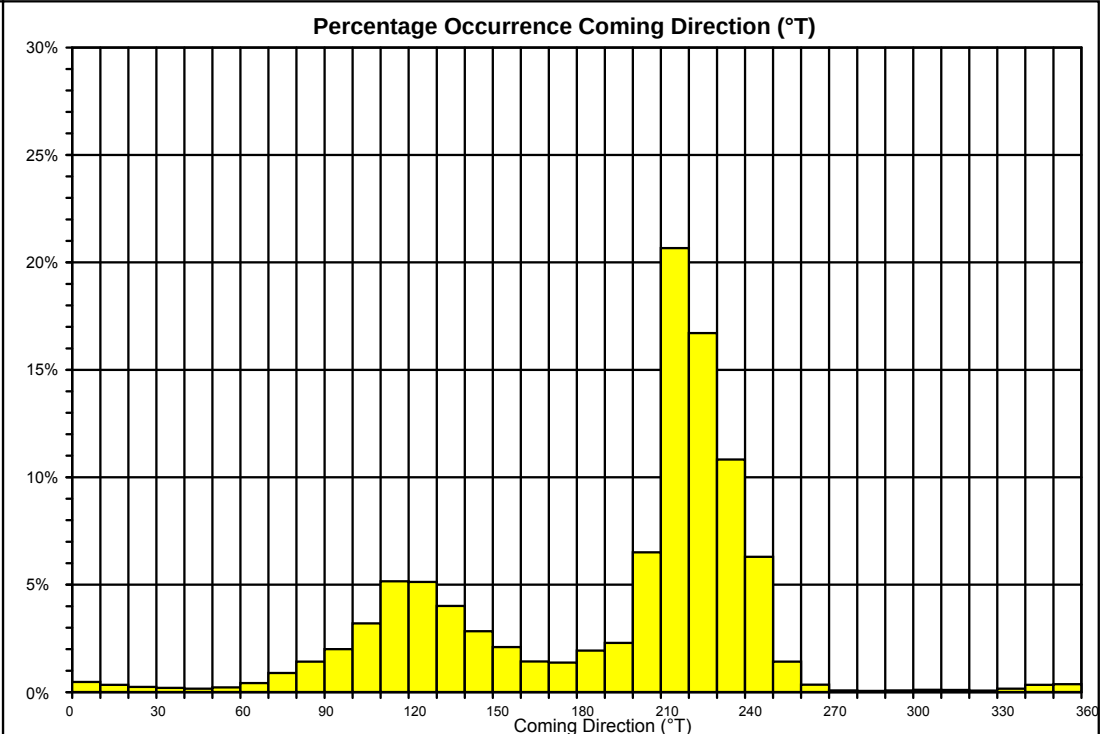
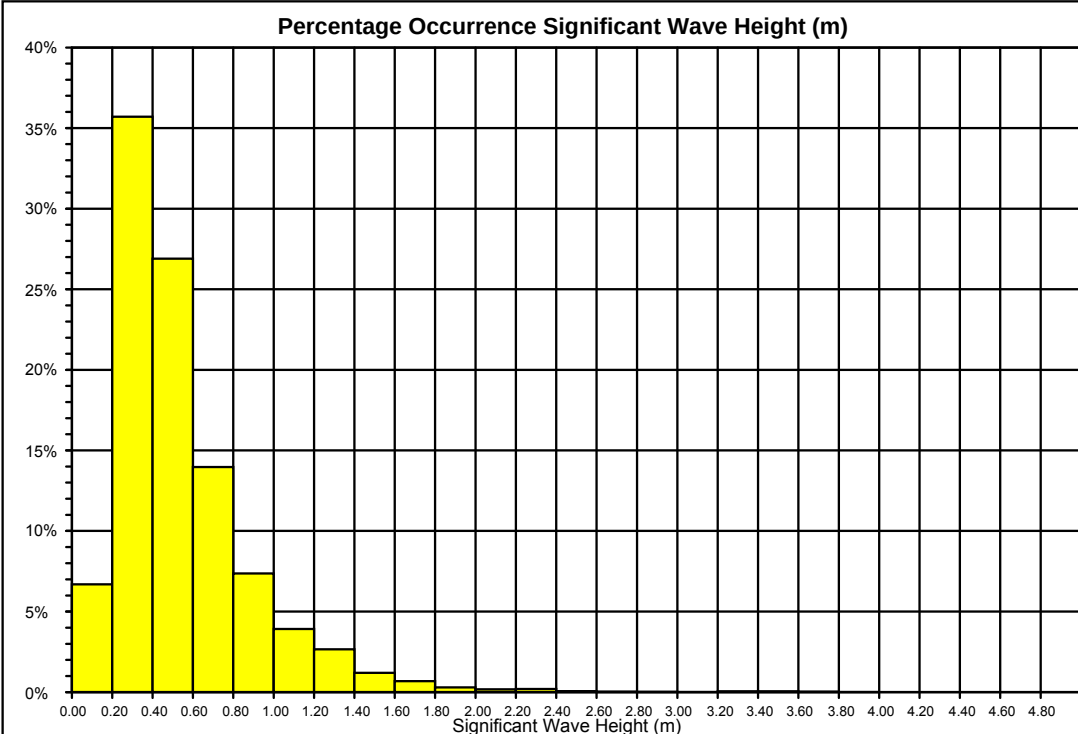


Percentage Persistence Significant Wave Height (m)

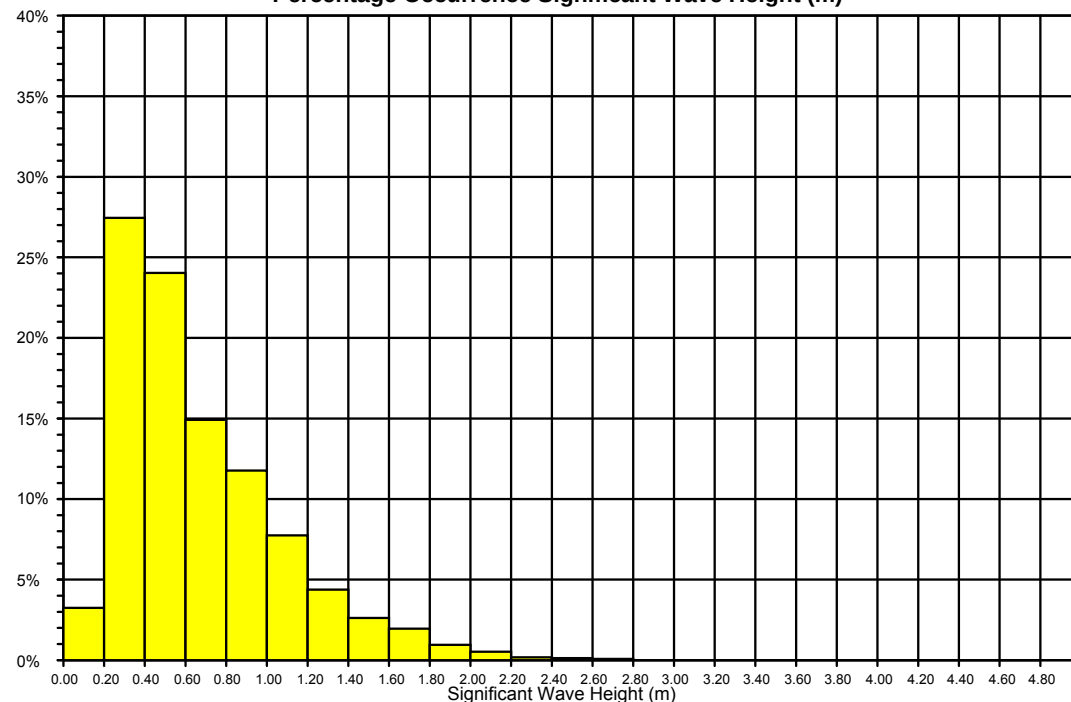


Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

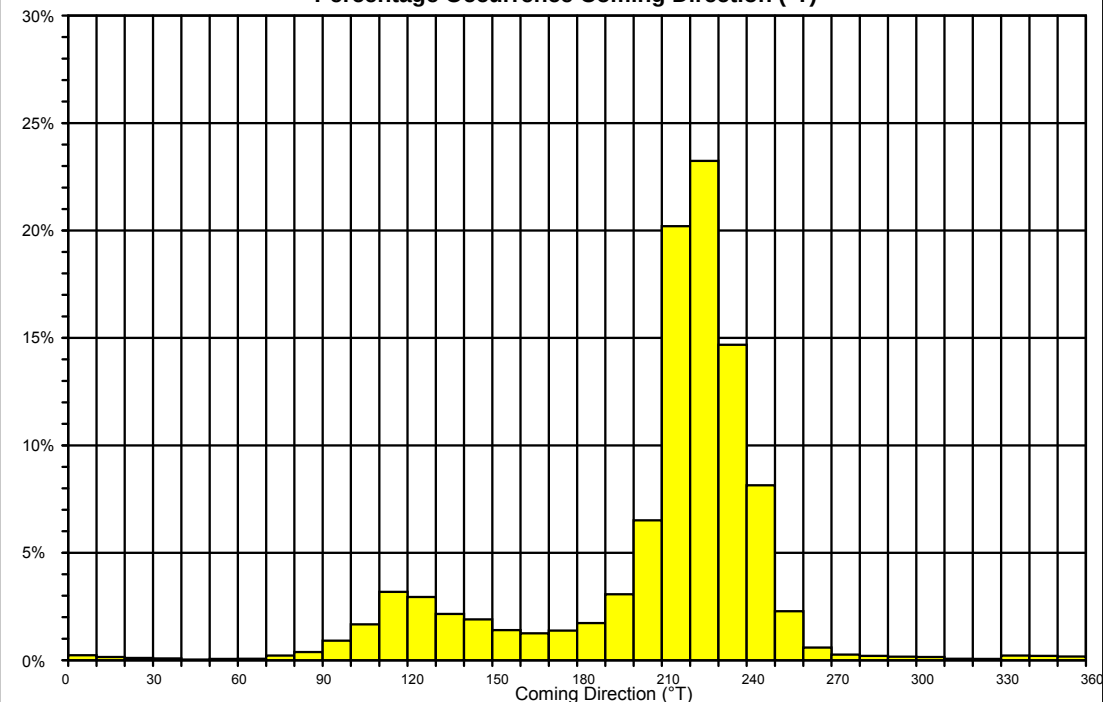
Wave Buoy / CCOData
Serial No.: 0000



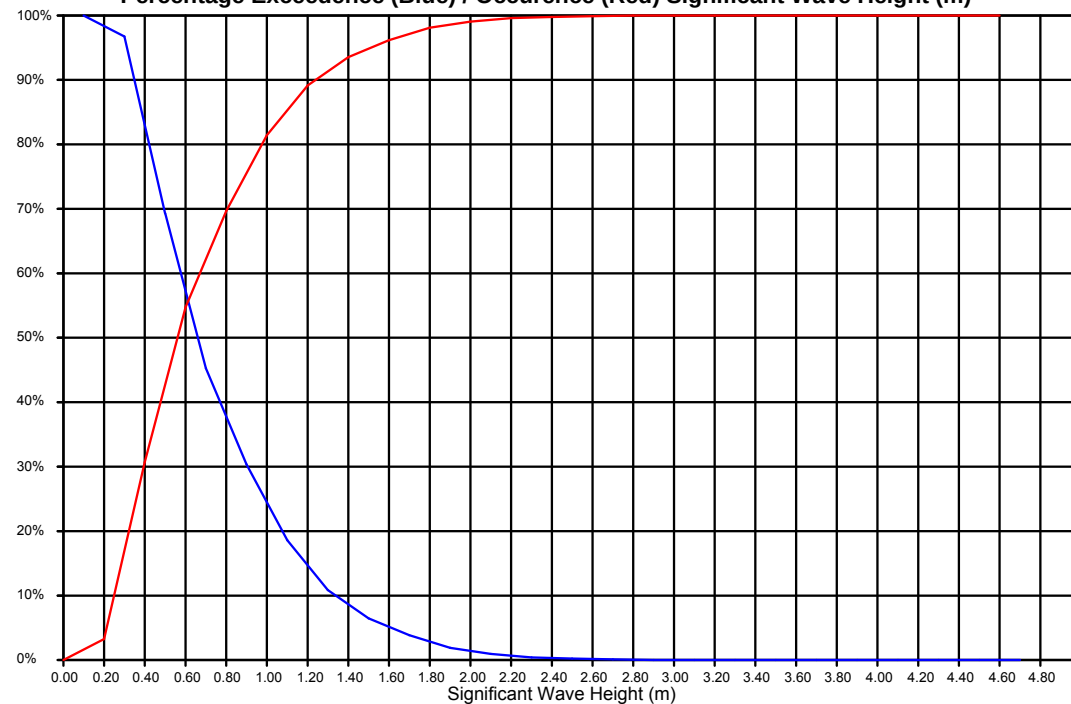
Percentage Occurrence Significant Wave Height (m)



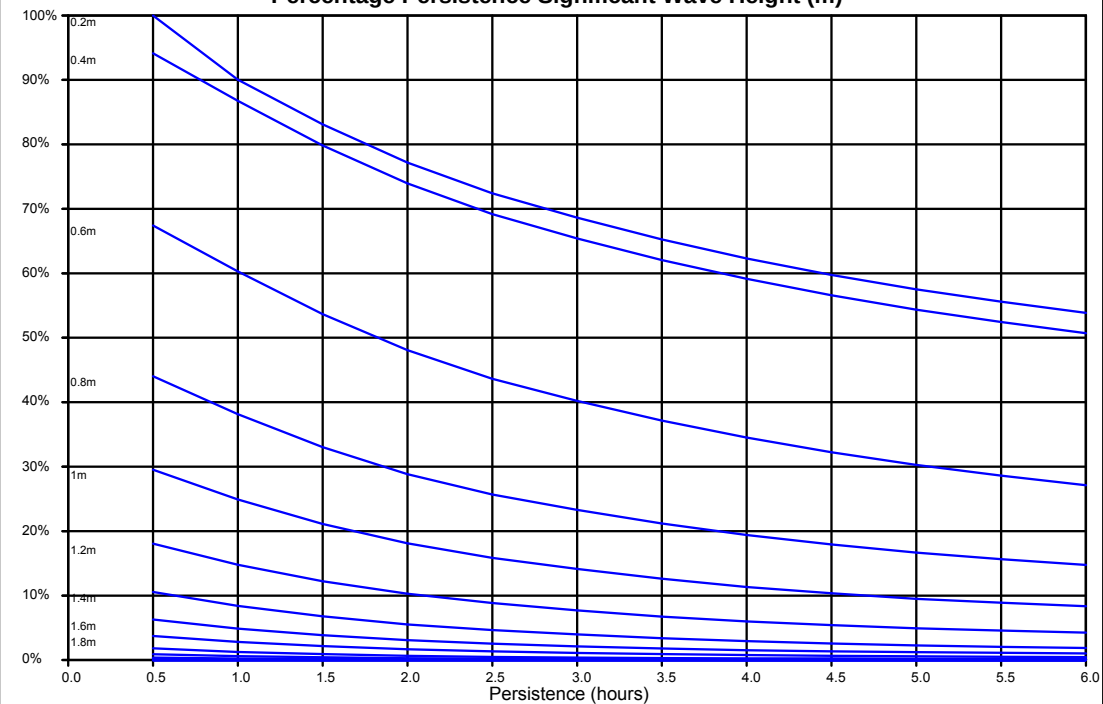
Percentage Occurrence Coming Direction (°T)



Percentage Exceedence (Blue) / Occurrence (Red) Significant Wave Height (m)

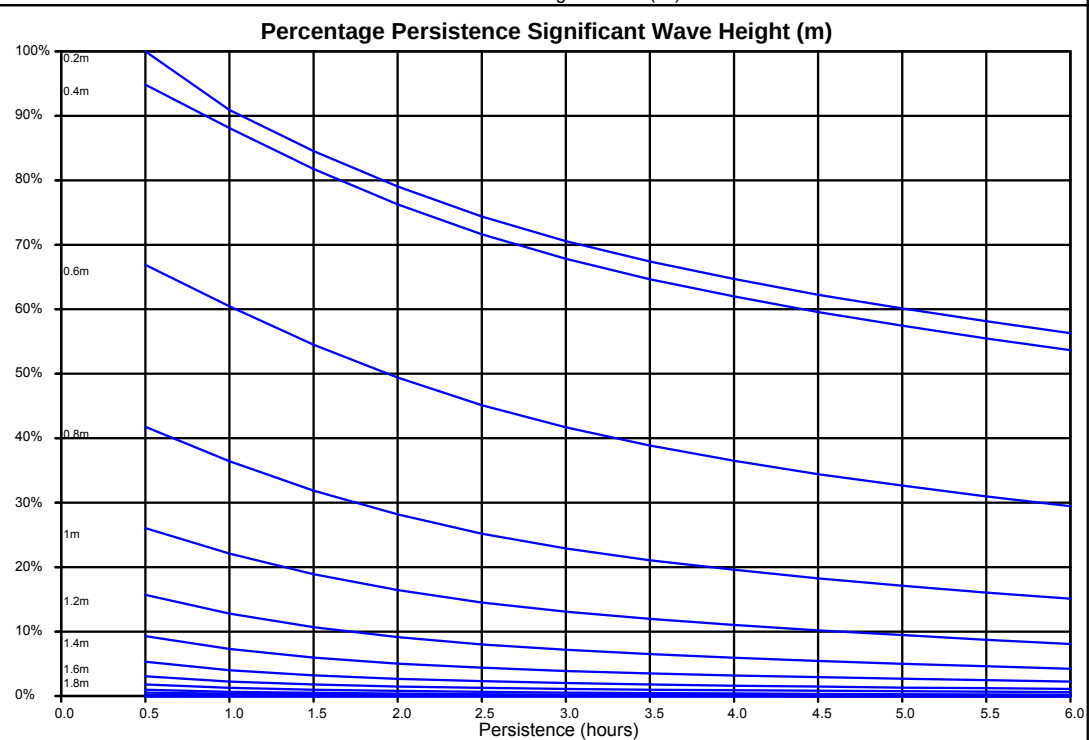
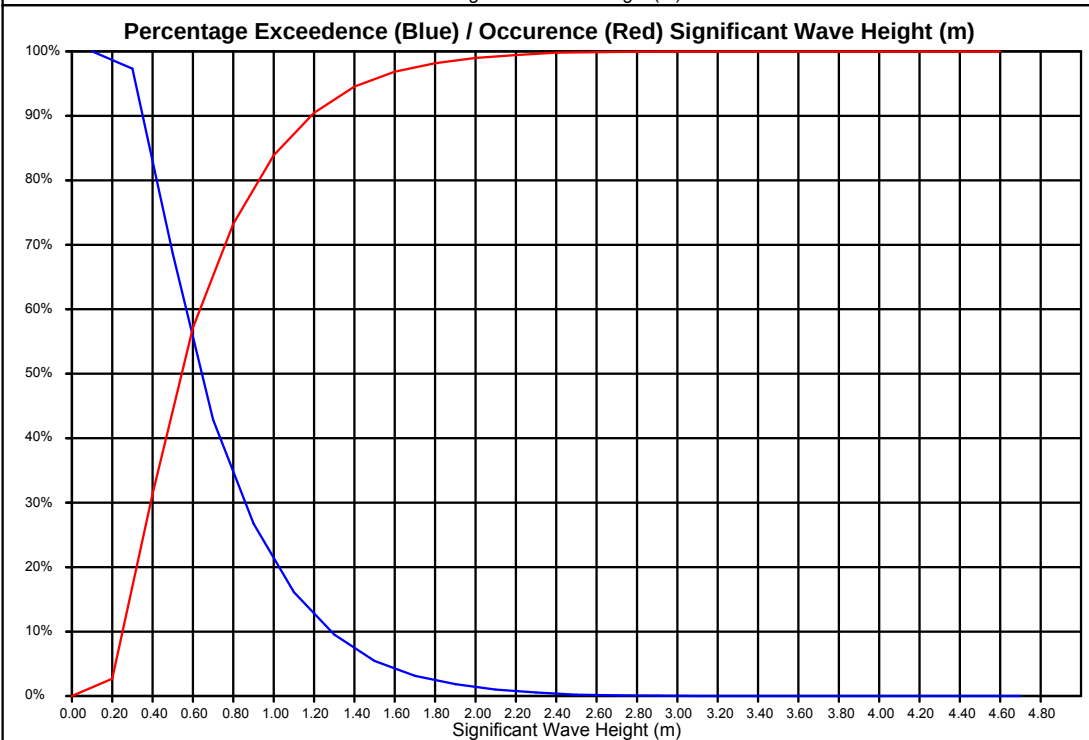
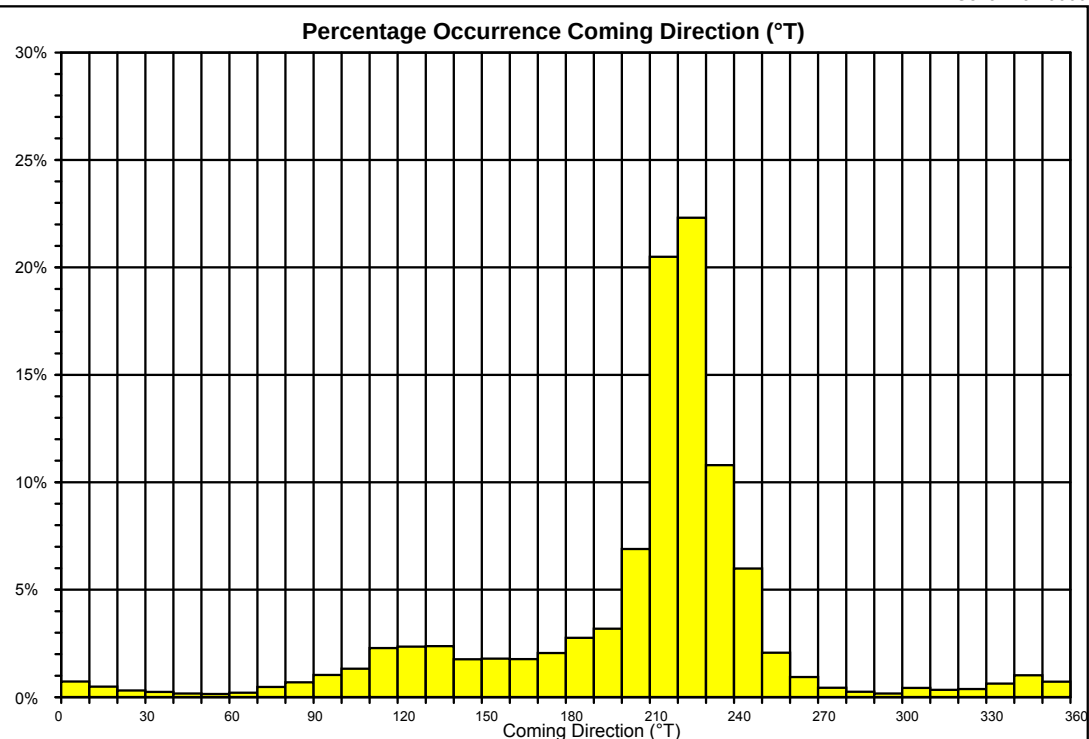
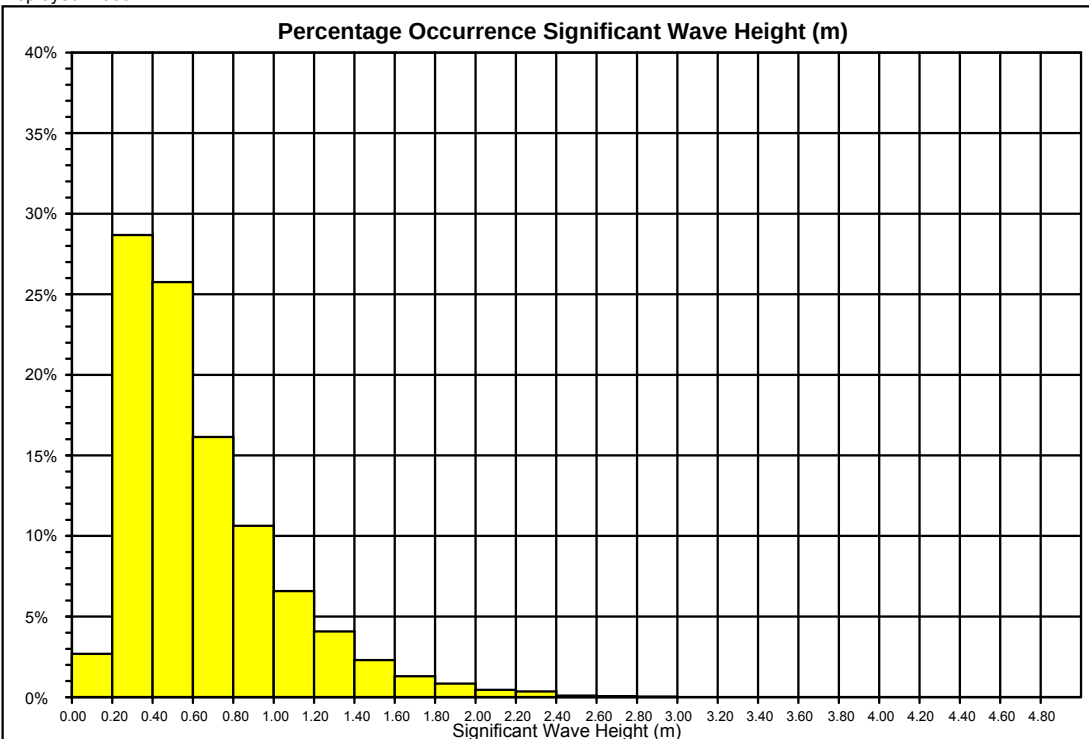


Percentage Persistence Significant Wave Height (m)



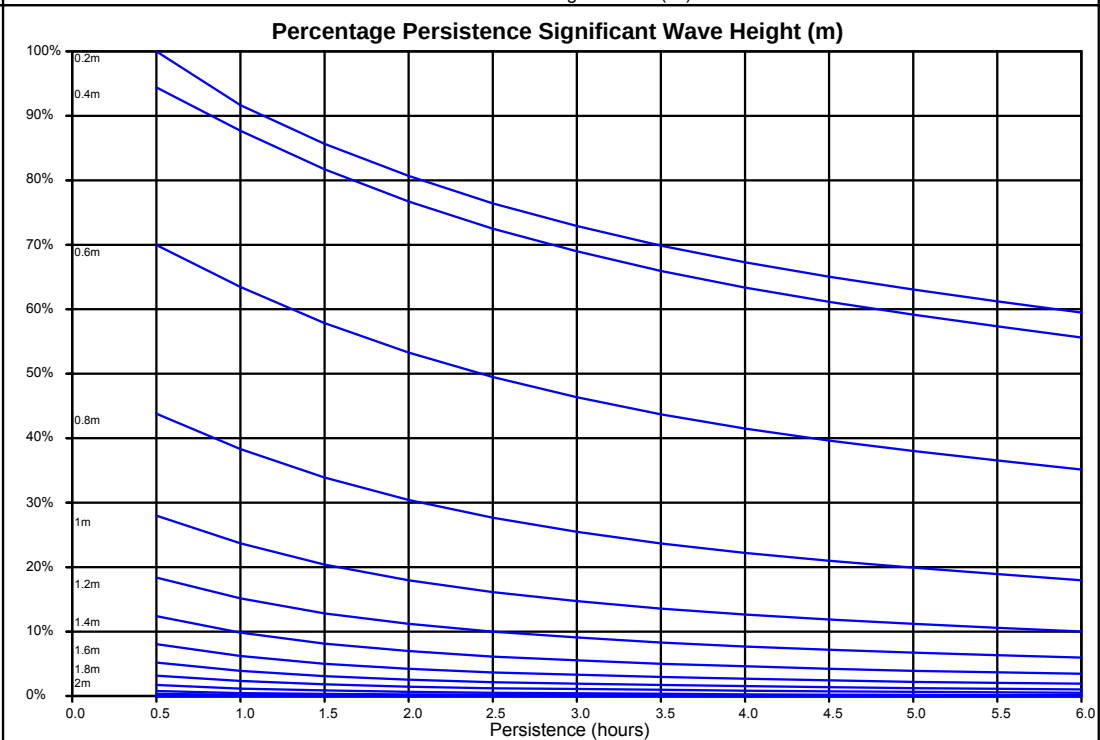
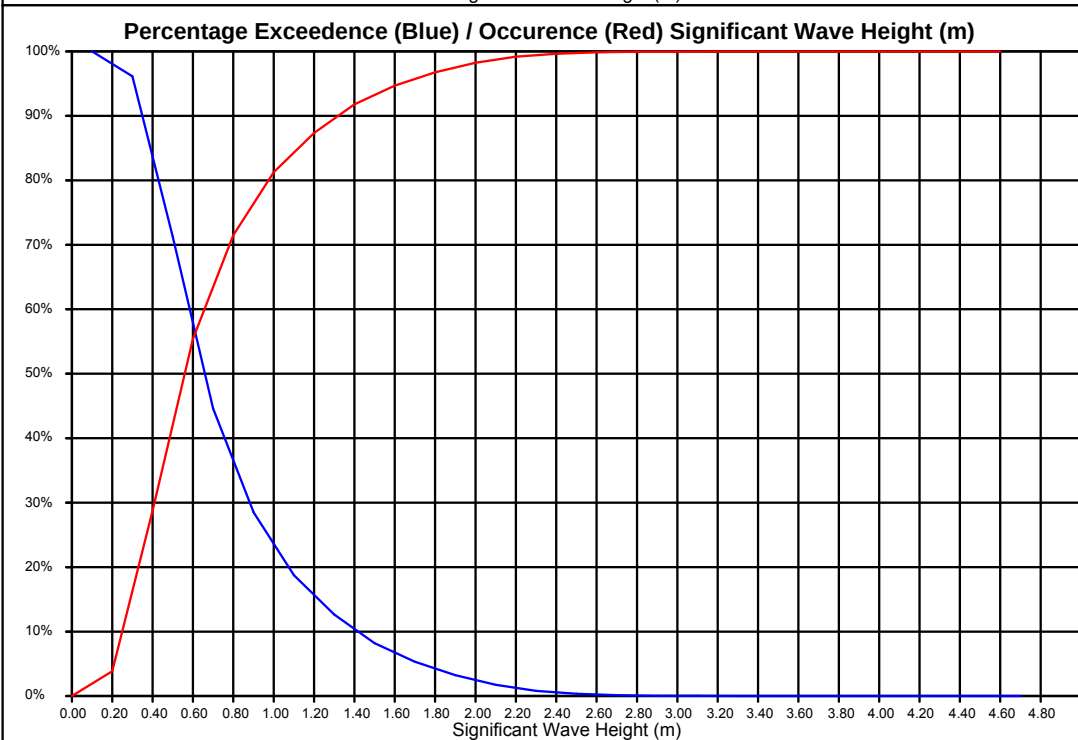
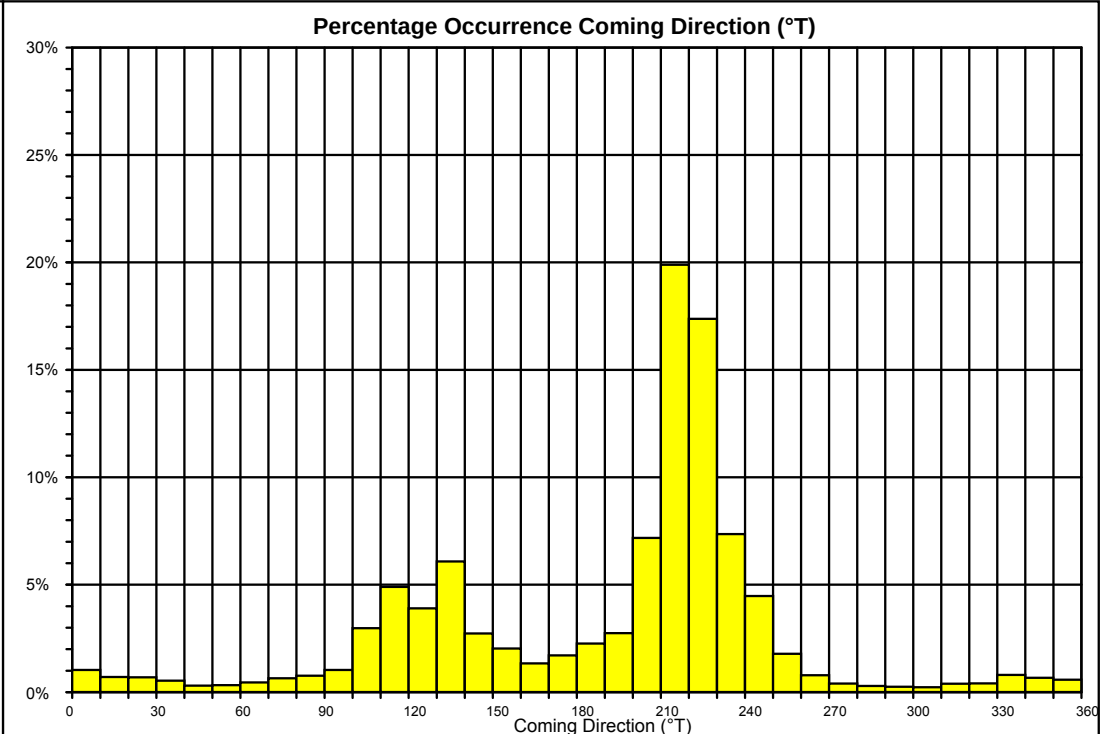
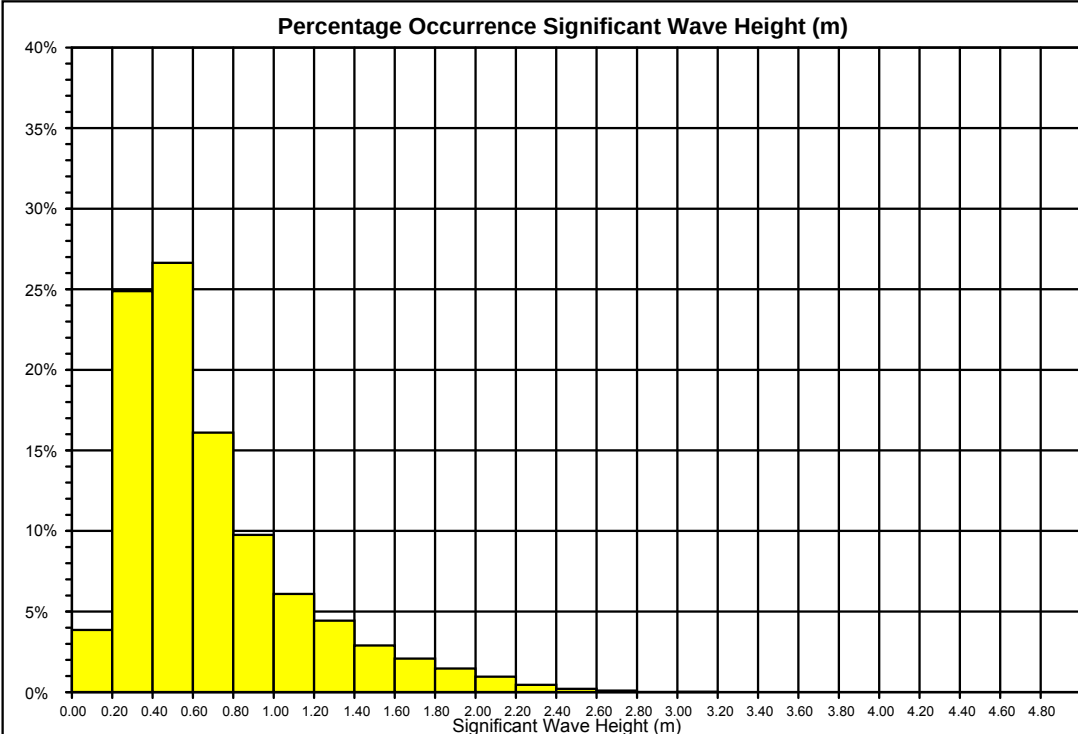
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

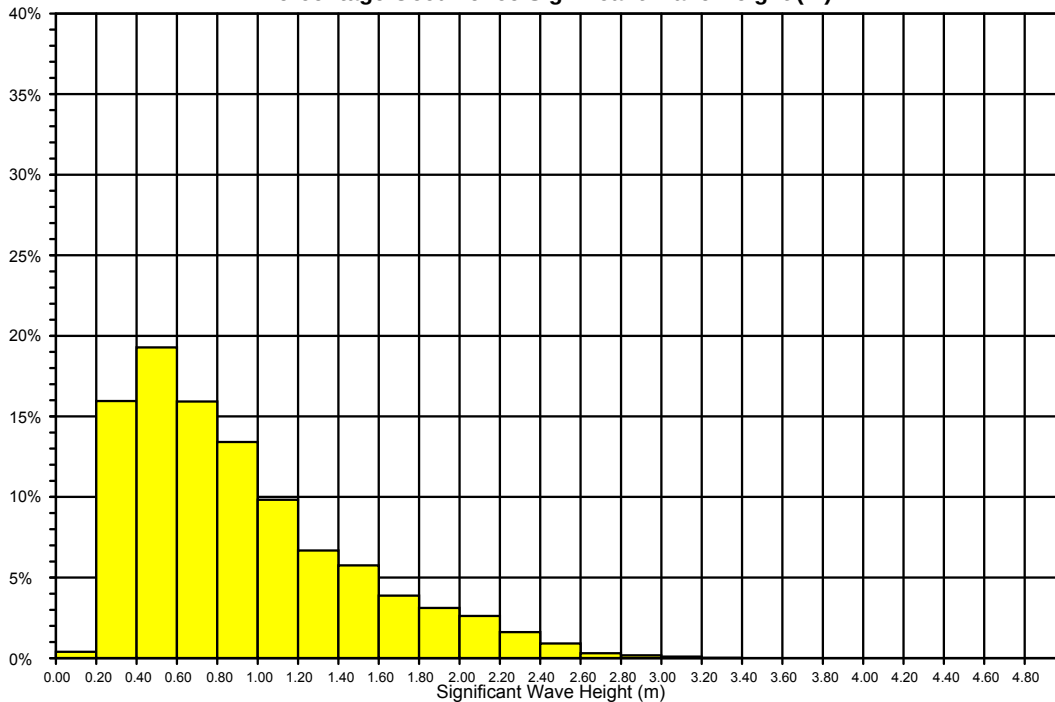


Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

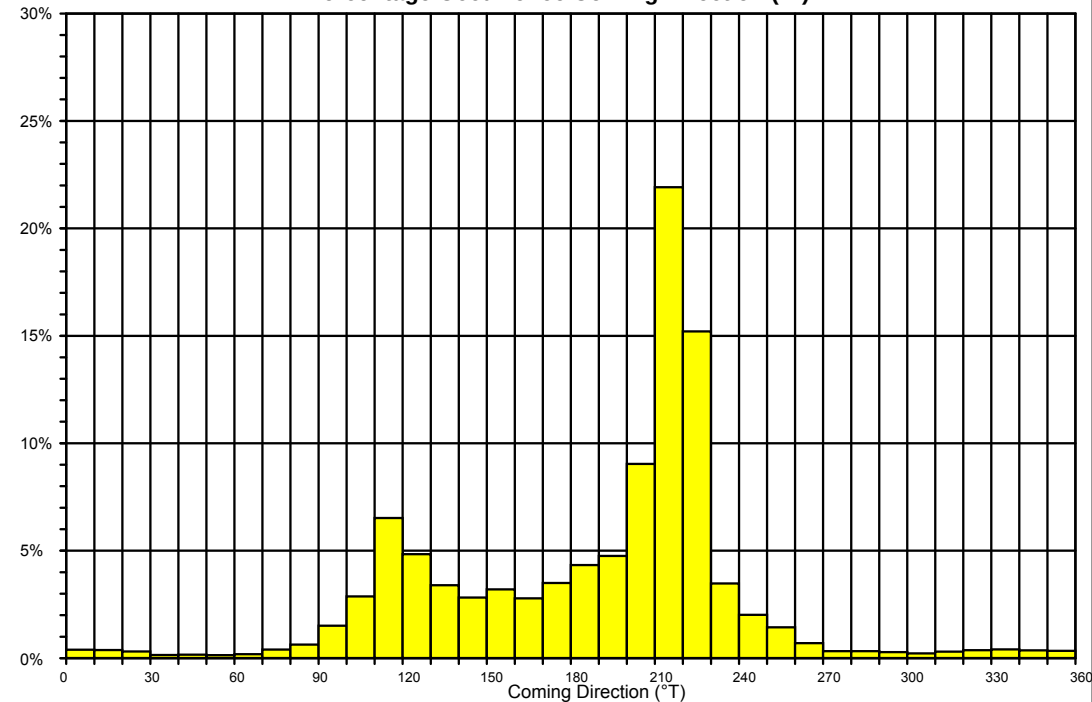
Wave Buoy / CCOData
Serial No.: 0000



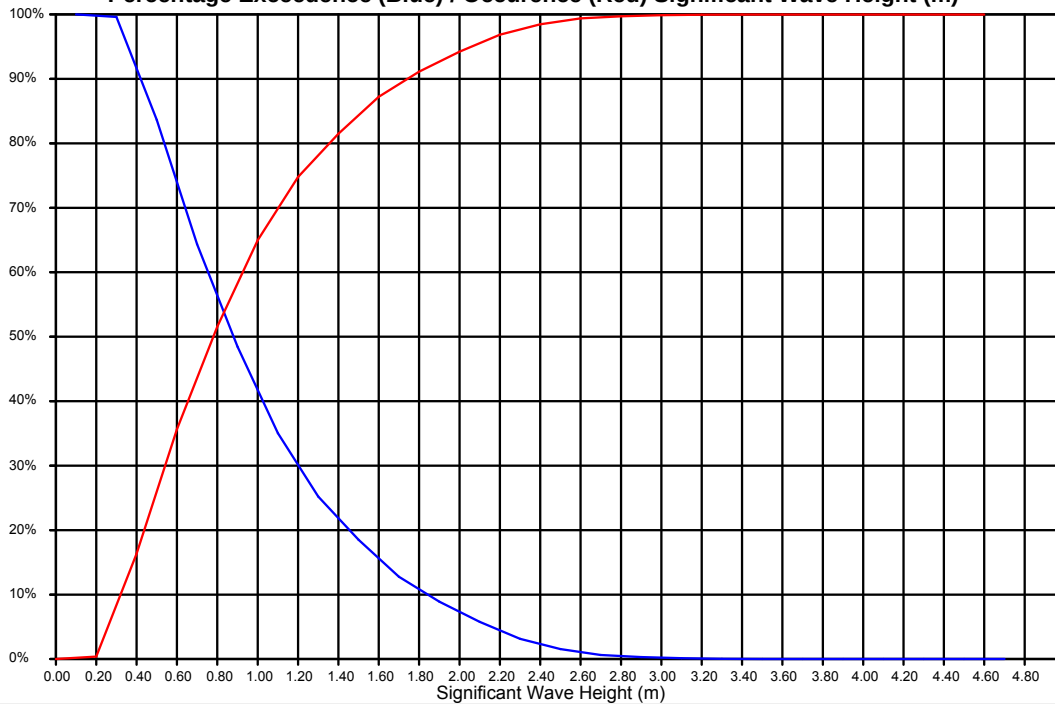
Percentage Occurrence Significant Wave Height (m)



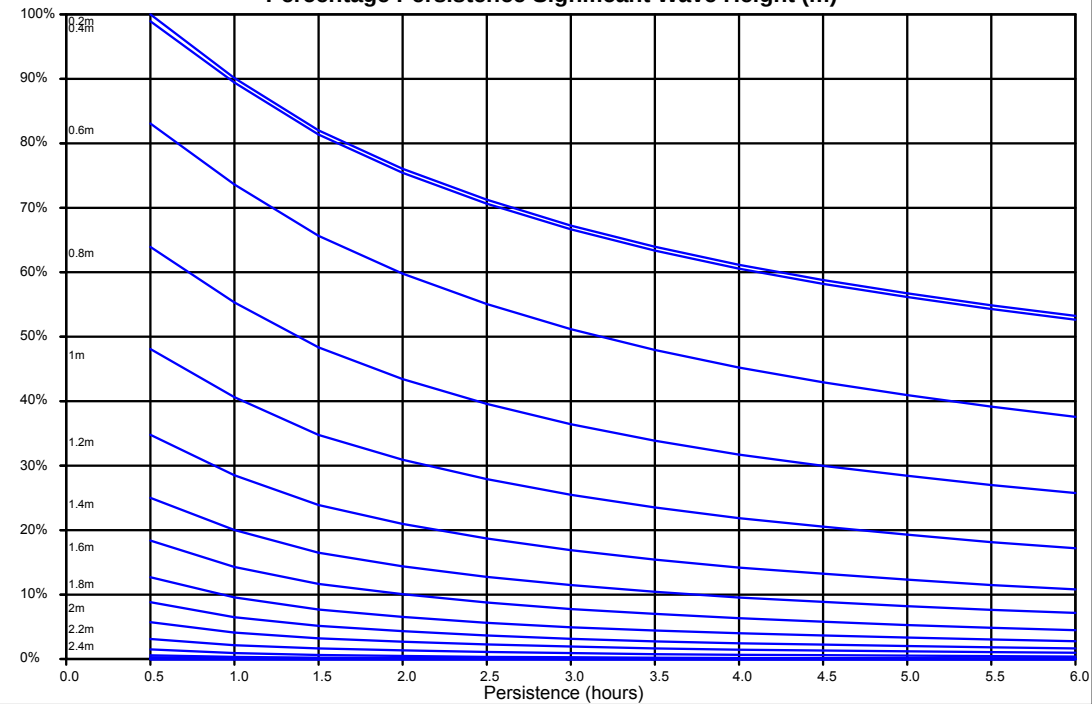
Percentage Occurrence Coming Direction (°T)



Percentage Exceedence (Blue) / Occurrence (Red) Significant Wave Height (m)

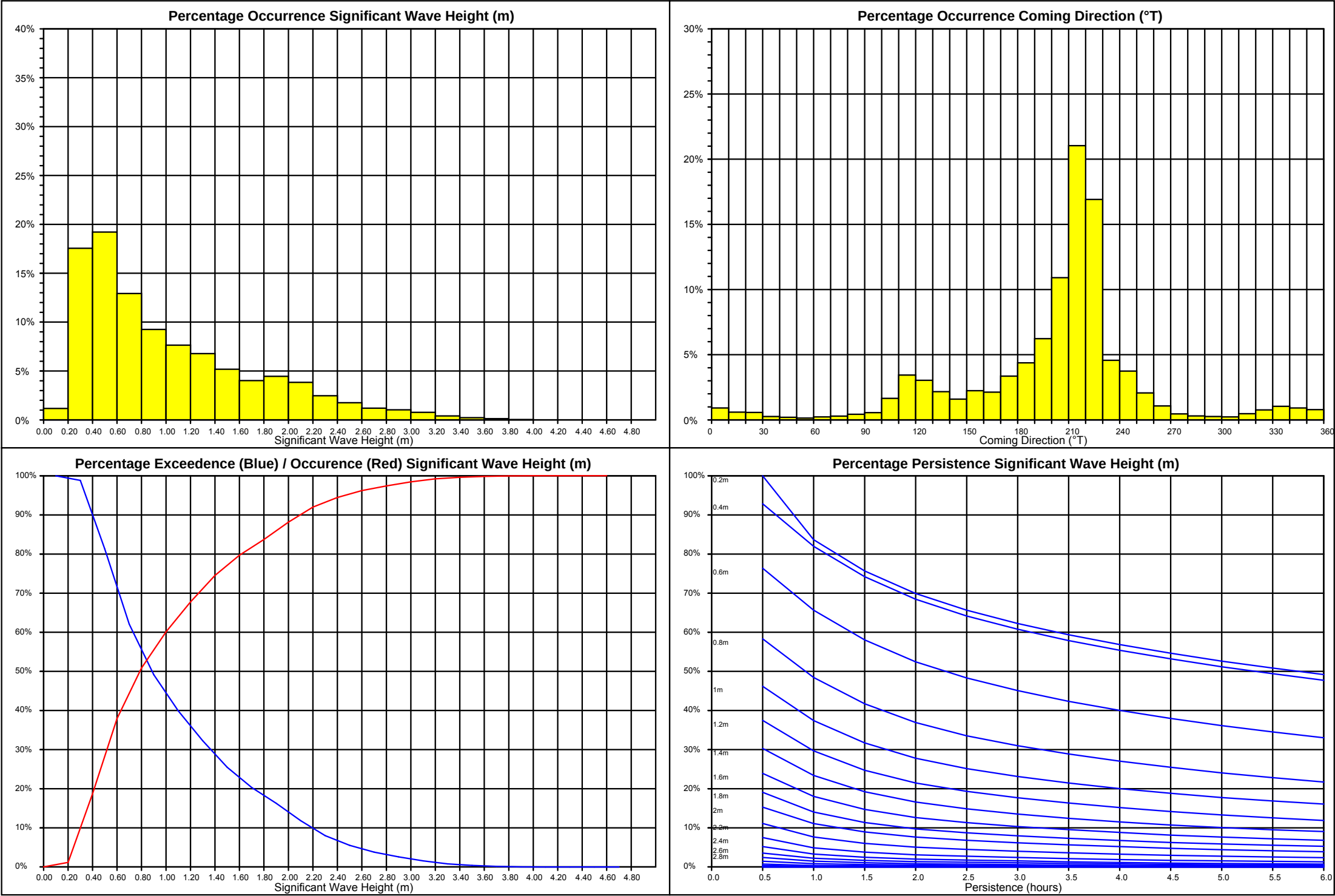


Percentage Persistence Significant Wave Height (m)



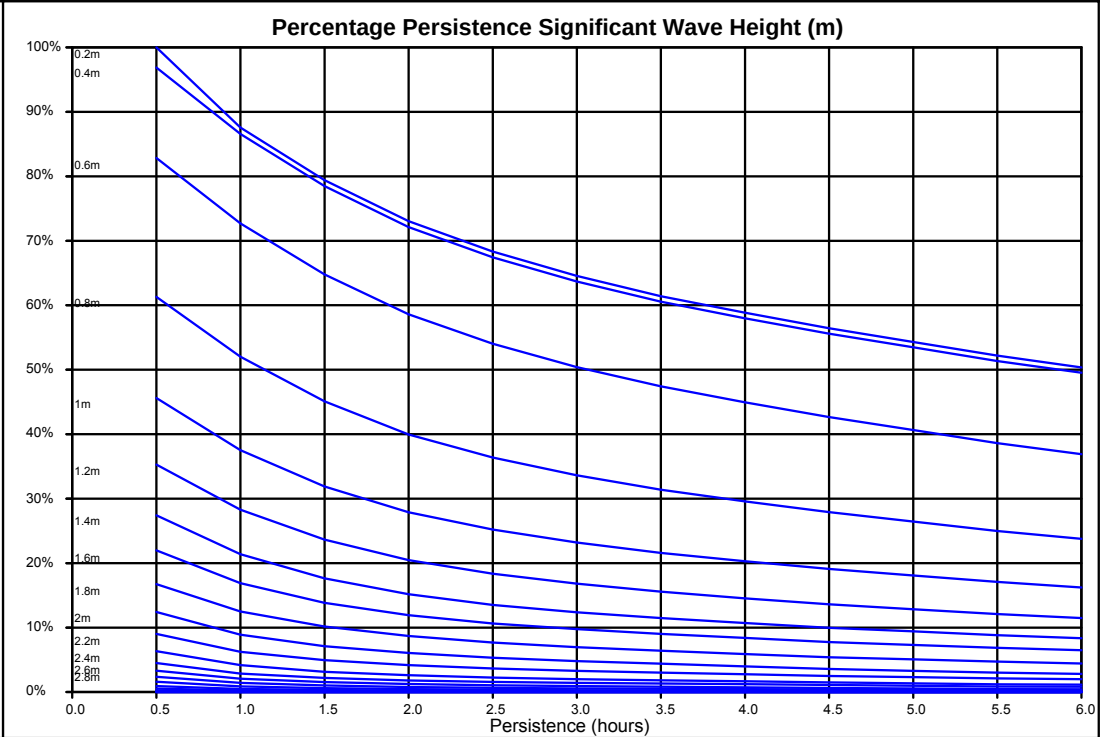
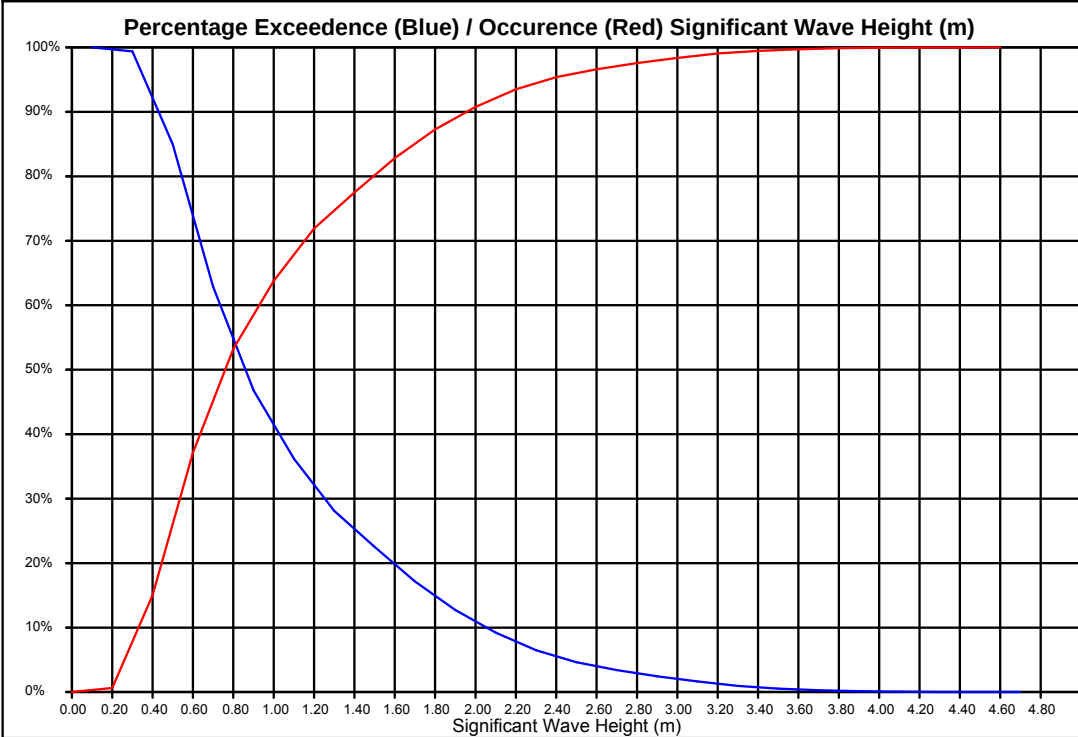
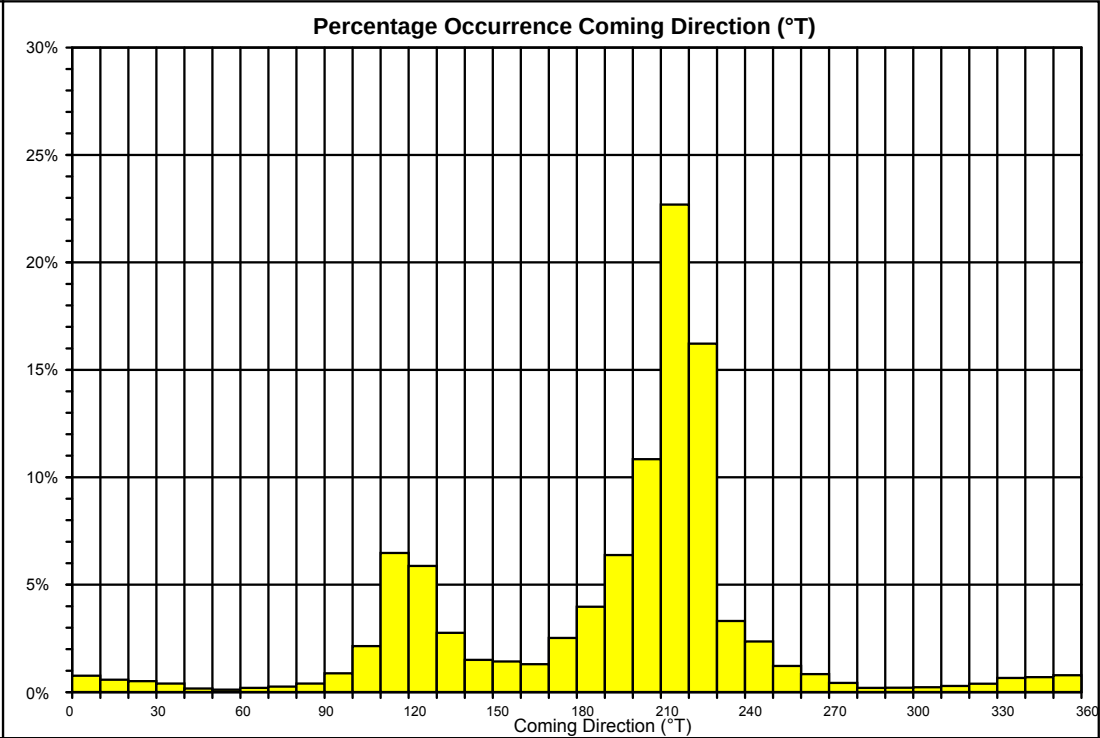
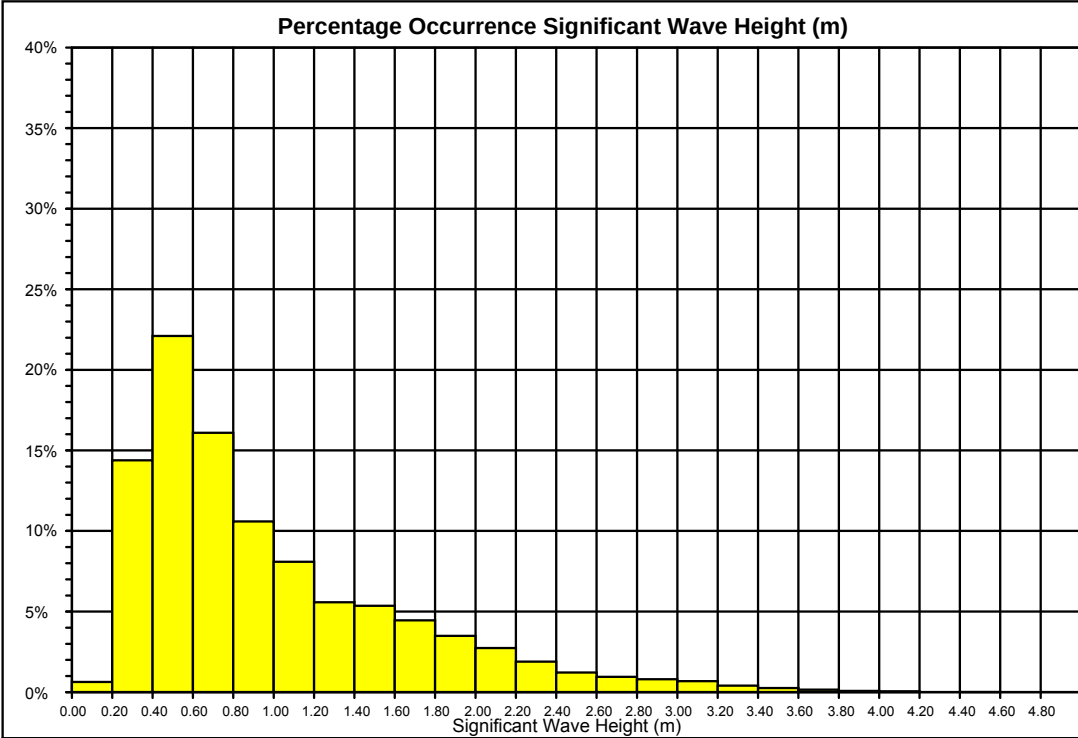
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000



Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000



Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	88.003	87.255	77.367	60.724	47.694	37.234	29.010	22.448	16.315	11.031	7.007	4.419	2.764	1.831	1.185	0.681	0.378	0.227	0.126	0.076	0.042	0.008			
2	72.562	71.831	62.110	47.156	36.041	27.346	20.835	15.794	11.048	7.158	4.301	2.688	1.672	1.084	0.706	0.361	0.193	0.109	0.050	0.034	0.008				
3	64.328	63.597	54.037	40.460	30.497	22.944	17.155	12.871	8.771	5.570	3.218	1.958	1.201	0.748	0.504	0.244	0.126	0.059	0.017	0.008					
4	58.935	58.204	48.811	36.310	27.170	20.289	14.921	11.031	7.318	4.486	2.588	1.596	0.958	0.580	0.403	0.185	0.118	0.050	0.017	0.008					
5	54.734	54.003	44.770	33.009	24.506	18.096	13.173	9.645	6.209	3.671	2.142	1.269	0.714	0.454	0.311	0.126	0.076	0.008							
6	51.122	50.391	41.309	30.160	22.213	16.214	11.737	8.536	5.427	3.159	1.815	1.008	0.546	0.370	0.244	0.084	0.067	0.008							
7	48.097	47.366	38.411	27.884	20.423	14.786	10.644	7.670	4.747	2.789	1.613	0.865	0.437	0.294	0.185	0.050	0.050								
8	45.224	44.493	35.630	25.666	18.726	13.417	9.586	6.881	4.117	2.394	1.319	0.714	0.328	0.218	0.143	0.034	0.034								
9	42.653	41.922	33.135	23.599	17.189	12.165	8.620	6.083	3.512	1.974	1.033	0.538	0.218	0.143	0.092	0.025	0.025								
10	40.410	39.679	30.967	21.784	15.870	11.148	7.805	5.385	2.999	1.621	0.849	0.420	0.151	0.092	0.059	0.008	0.008								
11	38.419	37.688	29.060	20.163	14.669	10.266	7.082	4.822	2.588	1.353	0.739	0.378	0.134	0.092	0.059	0.008	0.008								
12	36.722	35.991	27.464	18.861	13.652	9.544	6.536	4.377	2.310	1.168	0.622	0.302	0.109	0.076	0.050	0.008	0.008								
13	35.294	34.563	26.136	17.811	12.837	8.897	6.015	3.991	2.025	1.008	0.504	0.202	0.059	0.059	0.034										
14	34.235	33.504	25.162	17.021	12.215	8.376	5.595	3.663	1.823	0.916	0.462	0.168	0.050	0.050	0.025										
15	33.252	32.521	24.238	16.298	11.653	7.922	5.192	3.327	1.613	0.781	0.361	0.109	0.017	0.017	0.008										
16	32.555	31.824	23.591	15.811	11.283	7.628	4.932	3.100	1.462	0.672	0.286	0.076	0.008	0.008											
17	31.933	31.202	23.003	15.349	10.913	7.334	4.696	2.882	1.302	0.571	0.218	0.050	0.008	0.008											
18	31.202	30.471	22.305	14.761	10.468	6.998	4.394	2.596	1.126	0.479	0.160	0.034													
19	30.488	29.757	21.616	14.223	10.048	6.679	4.108	2.336	0.966	0.395	0.092	0.025													
20	29.774	29.043	20.961	13.744	9.703	6.410	3.907	2.151	0.849	0.344	0.076	0.017													
21	29.010	28.279	20.247	13.249	9.309	6.099	3.663	1.941	0.798	0.311	0.059	0.017													
22	28.228	27.497	19.533	12.728	8.872	5.780	3.411	1.756	0.756	0.286	0.059	0.017													
23	27.405	26.674	18.785	12.199	8.418	5.436	3.150	1.579	0.689	0.269	0.042														
24	26.598	25.876	18.046	11.669	7.973	5.133	2.890	1.428	0.596	0.252	0.034														
25	25.800	25.078	17.298	11.157	7.553	4.848	2.663	1.336	0.521	0.218	0.017														
26	25.095	24.372	16.643	10.678	7.149	4.562	2.462	1.252	0.479	0.193	0.008														
27	24.456	23.734	16.046	10.250	6.797	4.301	2.294	1.185	0.462	0.176	0.008														
28	23.893	23.187	15.534	9.888	6.519	4.133	2.176	1.117	0.437	0.168															
29	23.355	22.667	15.055	9.586	6.293	3.999	2.075	1.033	0.428	0.160															
30	22.742	22.070	14.484	9.166	5.931	3.722	1.874	0.874	0.395	0.134															
31	22.381	21.726	14.156	8.939	5.755	3.587	1.781	0.807	0.361	0.101															
32	22.070	21.432	13.879	8.746	5.595	3.478	1.714	0.765	0.319	0.076															
33	21.600	20.978	13.442	8.418	5.335	3.302	1.621	0.731	0.294	0.076															
34	21.196	20.591	13.089	8.174	5.158	3.184	1.546	0.689	0.277	0.076															
35	20.793	20.205	12.728	7.906	4.974	3.058	1.462	0.647	0.252	0.076															
36	20.323	19.768	12.316	7.603	4.747	2.898	1.361	0.596	0.235	0.067															
37	19.936	19.415	11.989	7.351	4.545	2.756	1.269	0.563	0.235	0.067															
38	19.600	19.113	11.720	7.158	4.385	2.638	1.193	0.538	0.218	0.067															
39	19.323	18.852	11.476	6.990	4.251	2.537	1.126	0.521	0.202	0.067															
40	19.121	18.659	11.291	6.864	4.142	2.462	1.084	0.504	0.185	0.067															
41	18.920	18.466	11.115	6.746	4.066	2.411	1.059	0.487	0.168	0.067															
42	18.659	18.231	10.896	6.603	3.974	2.336	1.025	0.454	0.134	0.050															
43	18.407	17.995	10.678	6.444	3.848	2.243	0.975	0.420	0.101	0.034															
44	18.138	17.760	10.460	6.301	3.747	2.159	0.916	0.386	0.084	0.034															
45	17.878	17.525	10.224	6.167	3.629	2.058	0.874	0.370	0.084	0.034															
46	17.601	17.256	9.956	6.015	3.478	1.924	0.790	0.311	0.059	0.017															
47	17.332	17.004	9.703	5.856	3.319	1.781	0.697	0.252	0.025	0.008															
48	17.122	16.811	9.535	5.746	3.218	1.697	0.647	0.210	0.008																

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																								
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	86.606	84.415	67.813	48.429	36.051	25.615	18.386	12.701	8.153	5.112	2.903	1.692	0.841	0.333	0.176	0.065	0.009								
2	72.259	70.189	54.271	37.179	27.001	18.405	12.766	8.597	5.380	3.245	1.766	1.026	0.453	0.157	0.074										
3	63.931	61.906	46.654	31.392	22.638	15.068	10.261	6.767	4.114	2.348	1.211	0.693	0.287	0.083	0.037										
4	58.144	56.166	41.514	27.648	19.763	12.867	8.560	5.509	3.356	1.830	0.915	0.555	0.231	0.065	0.018										
5	53.614	51.719	37.521	24.718	17.489	11.231	7.219	4.539	2.755	1.433	0.703	0.434	0.185	0.046	0.018										
6	49.926	48.087	34.285	22.407	15.779	9.946	6.193	3.762	2.256	1.146	0.601	0.379	0.166	0.046	0.018										
7	46.691	44.888	31.494	20.420	14.282	8.865	5.389	3.143	1.849	0.952	0.499	0.314	0.139	0.028	0.009										
8	43.927	42.170	29.109	18.737	12.978	8.005	4.798	2.736	1.599	0.804	0.453	0.277	0.120	0.009											
9	41.394	39.684	26.946	17.175	11.786	7.146	4.178	2.385	1.461	0.712	0.416	0.250	0.111												
10	39.111	37.438	25.014	15.779	10.751	6.452	3.716	2.126	1.340	0.656	0.379	0.222	0.102												
11	36.975	35.312	23.184	14.383	9.697	5.648	3.171	1.821	1.183	0.592	0.351	0.194	0.092												
12	35.117	33.500	21.649	13.265	8.846	5.001	2.745	1.535	0.989	0.518	0.314	0.157	0.055												
13	33.629	32.021	20.429	12.442	8.209	4.530	2.459	1.387	0.869	0.462	0.296	0.139	0.046												
14	32.427	30.828	19.449	11.767	7.654	4.132	2.265	1.257	0.804	0.416	0.268	0.111	0.028												
15	31.438	29.867	18.691	11.278	7.238	3.855	2.098	1.137	0.740	0.361	0.231	0.074	0.018												
16	30.551	29.016	18.072	10.889	6.896	3.633	1.960	1.063	0.693	0.314	0.185	0.046	0.009												
17	29.738	28.240	17.471	10.501	6.545	3.448	1.830	1.017	0.647	0.268	0.139	0.028													
18	28.998	27.528	16.898	10.113	6.184	3.226	1.664	0.924	0.592	0.222	0.102	0.009													
19	28.175	26.724	16.232	9.641	5.787	2.958	1.507	0.832	0.555	0.203	0.083														
20	27.417	26.003	15.613	9.216	5.445	2.718	1.368	0.767	0.527	0.194	0.083														
21	26.641	25.254	14.957	8.745	5.056	2.477	1.257	0.684	0.462	0.166	0.074														
22	25.744	24.358	14.162	8.199	4.594	2.209	1.137	0.610	0.416	0.148	0.055														
23	24.857	23.470	13.441	7.682	4.178	1.978	1.008	0.527	0.361	0.129	0.037														
24	24.025	22.647	12.784	7.238	3.836	1.756	0.906	0.481	0.333	0.111	0.028														
25	23.405	22.028	12.322	6.970	3.651	1.599	0.823	0.434	0.305	0.092	0.009														
26	22.925	21.547	11.952	6.748	3.503	1.488	0.758	0.397	0.268	0.074															
27	22.472	21.095	11.610	6.545	3.383	1.405	0.703	0.361	0.231	0.037															
28	22.047	20.669	11.287	6.295	3.235	1.340	0.656	0.342	0.213	0.018															
29	21.686	20.309	11.009	6.055	3.078	1.248	0.619	0.333	0.203	0.009															
30	21.353	19.976	10.751	5.851	2.977	1.192	0.601	0.314	0.185																
31	21.021	19.643	10.492	5.694	2.912	1.174	0.582	0.296	0.166																
32	20.669	19.292	10.196	5.519	2.801	1.128	0.555	0.268	0.148																
33	20.318	18.941	9.909	5.352	2.699	1.091	0.536	0.250	0.148																
34	19.902	18.525	9.549	5.130	2.542	1.008	0.481	0.194	0.120																
35	19.468	18.090	9.170	4.890	2.385	0.952	0.453	0.176	0.102																
36	19.070	17.693	8.837	4.659	2.228	0.860	0.416	0.157	0.083																
37	18.728	17.351	8.578	4.483	2.098	0.813	0.407	0.148	0.074																
38	18.405	17.027	8.347	4.326	1.987	0.786	0.407	0.148	0.074																
39	18.136	16.759	8.162	4.178	1.895	0.749	0.397	0.148	0.074																
40	17.942	16.565	8.042	4.077	1.840	0.721	0.388	0.148	0.074																
41	17.767	16.389	7.904	3.956	1.793	0.703	0.388	0.148	0.074																
42	17.554	16.177	7.737	3.836	1.784	0.703	0.388	0.148	0.074																
43	17.323	15.946	7.552	3.772	1.775	0.703	0.388	0.148	0.074																
44	17.055	15.678	7.349	3.688	1.738	0.675	0.388	0.148	0.074																
45	16.778	15.400	7.155	3.596	1.682	0.638	0.388	0.148	0.074																
46	16.500	15.123	6.951	3.494	1.618	0.592	0.379	0.139	0.065																
47	16.260	14.883	6.794	3.420	1.581	0.564	0.379	0.139	0.065																
48	16.057	14.679	6.674	3.346	1.544	0.545	0.379	0.139	0.065																

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	79.884	77.059	61.395	42.214	28.379	17.511	11.458	7.360	5.033	3.204	1.931	1.138	0.818	0.472	0.278	0.152	0.093	0.025							
2	67.676	64.952	49.836	32.856	21.137	12.368	7.765	4.738	3.153	1.897	1.197	0.658	0.497	0.245	0.135	0.059	0.042	0.008							
3	60.214	57.508	42.914	27.637	17.309	9.763	6.045	3.541	2.310	1.298	0.843	0.472	0.379	0.126	0.059	0.025	0.008								
4	54.987	52.323	38.176	24.222	14.940	8.220	5.025	2.808	1.855	1.029	0.615	0.346	0.278	0.067	0.025										
5	51.050	48.385	34.668	21.701	13.144	7.166	4.334	2.344	1.568	0.801	0.464	0.261	0.194	0.042	0.017										
6	47.660	45.005	31.709	19.670	11.702	6.231	3.701	1.981	1.357	0.649	0.329	0.194	0.135	0.008											
7	44.566	41.910	28.952	17.688	10.353	5.396	3.128	1.712	1.147	0.540	0.261	0.135	0.093												
8	41.961	39.314	26.634	15.960	9.224	4.679	2.690	1.450	0.927	0.413	0.160	0.093	0.067												
9	39.820	37.172	24.720	14.653	8.355	4.165	2.335	1.239	0.750	0.320	0.135	0.093	0.067												
10	37.813	35.166	22.915	13.372	7.504	3.600	1.973	0.995	0.565	0.228	0.101	0.067	0.051												
11	36.068	33.420	21.373	12.326	6.863	3.187	1.771	0.843	0.472	0.185	0.067	0.051	0.042												
12	34.567	31.920	20.083	11.534	6.399	2.867	1.568	0.708	0.405	0.143	0.042	0.034	0.025												
13	33.184	30.537	18.894	10.825	5.944	2.571	1.357	0.565	0.304	0.076	0.025	0.017	0.008												
14	32.038	29.390	17.933	10.286	5.624	2.420	1.256	0.506	0.270	0.042	0.025	0.017	0.008												
15	31.153	28.505	17.191	9.906	5.404	2.344	1.197	0.472	0.236	0.034	0.025	0.017	0.008												
16	30.385	27.738	16.559	9.544	5.151	2.268	1.163	0.455	0.228	0.034	0.025	0.017	0.008												
17	29.610	26.962	15.909	9.139	4.831	2.133	1.071	0.413	0.202	0.017	0.017	0.008													
18	28.868	26.229	15.285	8.743	4.527	1.998	1.003	0.396	0.185	0.017	0.017	0.008													
19	28.092	25.462	14.636	8.254	4.165	1.821	0.911	0.354	0.143	0.008	0.008														
20	27.241	24.610	13.903	7.698	3.760	1.593	0.784	0.295	0.101																
21	26.431	23.801	13.228	7.209	3.423	1.391	0.700	0.253	0.093																
22	25.521	22.899	12.478	6.694	3.094	1.206	0.599	0.194	0.084																
23	24.728	22.123	11.812	6.298	2.816	1.045	0.481	0.118	0.059																
24	24.020	21.432	11.247	5.994	2.605	0.944	0.396	0.084	0.051																
25	23.354	20.782	10.741	5.716	2.403	0.860	0.337	0.067	0.051																
26	22.730	20.167	10.261	5.446	2.209	0.776	0.270	0.042	0.034																
27	22.157	19.611	9.805	5.168	1.998	0.674	0.202	0.025	0.017																
28	21.693	19.155	9.434	4.949	1.830	0.615	0.152	0.017	0.008																
29	21.288	18.759	9.122	4.764	1.737	0.590	0.126	0.008																	
30	20.934	18.405	8.878	4.595	1.661	0.556	0.118																		
31	20.614	18.085	8.642	4.435	1.627	0.540	0.118																		
32	20.277	17.747	8.414	4.258	1.585	0.514	0.101																		
33	19.897	17.368	8.119	4.064	1.492	0.464	0.059																		
34	19.602	17.073	7.891	3.929	1.450	0.422	0.042																		
35	19.231	16.710	7.596	3.786	1.391	0.396	0.042																		
36	18.877	16.356	7.343	3.659	1.349	0.371	0.042																		
37	18.565	16.044	7.133	3.533	1.315	0.354	0.042																		
38	18.295	15.774	6.922	3.398	1.239	0.329	0.042																		
39	17.975	15.454	6.686	3.246	1.155	0.295	0.034																		
40	17.688	15.167	6.483	3.128	1.071	0.261	0.025																		
41	17.452	14.931	6.323	3.018	0.995	0.253	0.025																		
42	17.225	14.712	6.155	2.900	0.919	0.245	0.025																		
43	17.064	14.552	6.028	2.799	0.868	0.236	0.025																		
44	16.921	14.409	5.927	2.706	0.818	0.219	0.025																		
45	16.769	14.257	5.817	2.597	0.776	0.211	0.017																		
46	16.575	14.063	5.666	2.453	0.750	0.194	0.008																		
47	16.407	13.894	5.505	2.344	0.725	0.169	0.008																		
48	16.221	13.709	5.362	2.234	0.700	0.152	0.008																		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																								
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	89.462	84.679	54.201	26.415	13.559	7.969	4.505	2.465	1.198	0.443	0.200	0.113	0.061	0.035											
2	78.628	73.889	44.384	19.896	9.714	5.530	2.891	1.510	0.660	0.208	0.078	0.043	0.026	0.009											
3	70.990	66.259	37.717	15.972	7.674	4.262	2.023	1.024	0.382	0.113	0.026	0.009	0.009												
4	65.677	60.981	33.333	13.542	6.554	3.542	1.632	0.755	0.269	0.078	0.017	0.009	0.009												
5	61.319	56.658	29.714	11.528	5.651	2.977	1.311	0.556	0.174	0.043	0.009														
6	57.743	53.090	26.788	10.017	4.974	2.587	1.102	0.408	0.113	0.026	0.009														
7	54.774	50.139	24.436	8.741	4.366	2.274	0.964	0.330	0.087	0.026	0.009														
8	52.031	47.413	22.326	7.578	3.819	1.988	0.825	0.243	0.061	0.026	0.009														
9	49.766	45.156	20.668	6.727	3.438	1.762	0.677	0.182	0.052	0.017															
10	47.769	43.168	19.262	6.050	3.082	1.563	0.547	0.139	0.026																
11	45.946	41.346	17.960	5.417	2.682	1.311	0.399	0.095	0.026																
12	44.280	39.688	16.788	4.896	2.370	1.111	0.260	0.043	0.009																
13	42.778	38.186	15.773	4.514	2.188	1.016	0.182	0.017																	
14	41.545	36.962	15.052	4.271	2.075	0.964	0.148	0.009																	
15	40.399	35.816	14.427	3.993	1.936	0.903	0.130	0.009																	
16	39.349	34.766	13.880	3.776	1.788	0.825	0.130	0.009																	
17	38.411	33.828	13.351	3.585	1.675	0.755	0.113																		
18	37.543	32.960	12.847	3.351	1.528	0.703	0.095																		
19	36.806	32.231	12.387	3.160	1.398	0.668	0.095																		
20	35.972	31.415	11.806	2.925	1.233	0.616	0.087																		
21	35.113	30.556	11.198	2.734	1.128	0.564	0.069																		
22	34.158	29.618	10.538	2.483	1.016	0.503	0.043																		
23	33.177	28.646	9.931	2.266	0.903	0.425																			
24	32.309	27.778	9.453	2.144	0.851	0.391																			
25	31.545	27.014	9.045	2.023	0.807	0.365																			
26	30.825	26.293	8.672	1.944	0.790	0.347																			
27	30.174	25.642	8.368	1.884	0.773	0.330																			
28	29.557	25.035	8.056	1.806	0.747	0.313																			
29	29.115	24.592	7.821	1.719	0.703	0.286																			
30	28.715	24.193	7.613	1.632	0.634	0.269																			
31	28.273	23.759	7.379	1.528	0.564	0.252																			
32	27.882	23.368	7.153	1.406	0.503	0.243																			
33	27.465	22.951	6.910	1.302	0.451	0.234																			
34	27.049	22.543	6.675	1.241	0.451	0.234																			
35	26.606	22.101	6.458	1.207	0.451	0.234																			
36	26.146	21.641	6.241	1.163	0.451	0.234																			
37	25.616	21.111	5.972	1.085	0.425	0.226																			
38	25.113	20.625	5.729	1.007	0.399	0.226																			
39	24.696	20.208	5.538	0.964	0.373	0.217																			
40	24.288	19.818	5.373	0.903	0.330	0.182																			
41	23.932	19.462	5.226	0.851	0.304	0.156																			
42	23.637	19.167	5.078	0.799	0.260	0.113																			
43	23.359	18.889	4.939	0.764	0.243	0.095																			
44	23.056	18.585	4.792	0.729	0.208	0.078																			
45	22.760	18.290	4.618	0.677	0.174	0.061																			
46	22.448	17.977	4.453	0.625	0.139	0.043																			
47	22.179	17.708	4.332	0.616	0.139	0.043																			
48	21.849	17.379	4.193	0.590	0.122	0.026																			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	82.821	79.053	54.557	32.132	19.113	12.253	7.645	4.361	2.518	1.487	0.848	0.456	0.283	0.146	0.046	0.018									
2	71.389	67.749	44.376	24.459	13.858	8.594	5.082	2.810	1.587	0.858	0.484	0.228	0.137	0.055	0.018										
3	63.388	59.858	37.551	19.889	11.003	6.797	3.841	2.117	1.213	0.611	0.319	0.164	0.091	0.027	0.009										
4	57.723	54.302	32.944	16.951	9.160	5.656	3.111	1.697	0.976	0.456	0.219	0.091	0.055	0.009											
5	53.471	50.123	29.641	14.962	7.946	4.908	2.618	1.414	0.775	0.328	0.155	0.073	0.046	0.009											
6	50.032	46.766	27.060	13.457	7.098	4.397	2.208	1.223	0.593	0.219	0.091	0.046	0.018												
7	46.921	43.737	24.815	12.097	6.249	3.887	1.879	1.040	0.465	0.155	0.064	0.036	0.009												
8	44.476	41.365	23.082	11.085	5.656	3.549	1.679	0.940	0.401	0.119	0.055	0.027													
9	42.277	39.203	21.467	10.227	5.155	3.193	1.432	0.775	0.301	0.100	0.055	0.027													
10	40.425	37.433	20.108	9.497	4.735	2.874	1.204	0.639	0.237	0.082	0.046	0.027													
11	38.783	35.827	18.885	8.840	4.443	2.655	1.049	0.538	0.192	0.064	0.027	0.009													
12	37.159	34.230	17.644	8.165	4.151	2.418	0.940	0.465	0.164	0.055	0.018														
13	35.745	32.835	16.568	7.627	3.887	2.208	0.858	0.411	0.146	0.055	0.018														
14	34.495	31.594	15.637	7.134	3.631	2.016	0.785	0.356	0.137	0.055	0.018														
15	33.355	30.472	14.807	6.760	3.449	1.898	0.721	0.292	0.119	0.055	0.018														
16	32.378	29.496	14.095	6.478	3.303	1.797	0.675	0.246	0.100	0.055	0.018														
17	31.475	28.601	13.429	6.240	3.184	1.706	0.620	0.201	0.073	0.046	0.009														
18	30.663	27.789	12.809	5.994	3.065	1.633	0.575	0.164	0.064	0.036															
19	29.687	26.813	11.979	5.611	2.874	1.560	0.547	0.146	0.055	0.027															
20	28.775	25.928	11.286	5.292	2.774	1.478	0.502	0.109	0.027	0.018															
21	27.954	25.135	10.674	5.036	2.682	1.405	0.456	0.091	0.009																
22	27.233	24.423	10.145	4.826	2.637	1.369	0.438	0.091	0.009																
23	26.613	23.812	9.680	4.644	2.582	1.323	0.429	0.091	0.009																
24	25.947	23.191	9.215	4.416	2.454	1.232	0.401	0.082																	
25	25.335	22.617	8.786	4.224	2.317	1.150	0.365	0.082																	
26	24.806	22.087	8.412	4.060	2.217	1.086	0.328	0.082																	
27	24.231	21.513	7.974	3.850	2.071	0.985	0.255	0.064																	
28	23.711	21.002	7.609	3.668	1.943	0.912	0.210	0.055																	
29	23.200	20.491	7.253	3.503	1.834	0.848	0.182	0.036																	
30	22.763	20.053	6.961	3.348	1.724	0.803	0.164	0.018																	
31	22.434	19.725	6.733	3.221	1.651	0.775	0.164	0.018																	
32	22.151	19.442	6.532	3.120	1.597	0.757	0.164	0.018																	
33	21.805	19.113	6.295	3.020	1.551	0.730	0.164	0.018																	
34	21.476	18.803	6.085	2.956	1.533	0.721	0.164	0.018																	
35	21.202	18.538	5.903	2.892	1.514	0.721	0.164	0.018																	
36	20.901	18.265	5.702	2.801	1.496	0.721	0.164	0.018																	
37	20.591	17.964	5.520	2.701	1.451	0.702	0.146	0.018																	
38	20.308	17.681	5.310	2.582	1.369	0.666	0.128	0.018																	
39	20.044	17.416	5.118	2.482	1.305	0.630	0.109	0.018																	
40	19.843	17.216	5.009	2.436	1.268	0.611	0.091	0.018																	
41	19.642	17.015	4.899	2.399	1.232	0.584	0.082	0.018																	
42	19.478	16.851	4.808	2.363	1.195	0.557	0.064	0.018																	
43	19.277	16.650	4.662	2.308	1.150	0.529	0.046	0.018																	
44	19.086	16.458	4.553	2.272	1.131	0.520	0.046	0.018																	
45	18.885	16.258	4.443	2.217	1.122	0.511	0.046	0.018																	
46	18.703	16.075	4.343	2.153	1.104	0.493	0.046	0.018																	
47	18.529	15.902	4.261	2.098	1.095	0.484	0.046	0.018																	
48	18.320	15.692	4.133	2.016	1.049	0.447	0.046	0.018																	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																								
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	91.260	84.583	50.546	26.111	13.710	7.371	4.157	1.954	1.101	0.605	0.397	0.278	0.119	0.099	0.079	0.060	0.060	0.030	0.010						
2	80.228	73.641	40.942	20.189	10.218	5.179	2.887	1.270	0.685	0.417	0.278	0.188	0.069	0.050	0.040	0.030	0.030	0.010							
3	72.034	65.496	34.048	16.379	8.185	4.008	2.212	0.962	0.516	0.347	0.248	0.169	0.069	0.050	0.040	0.030	0.030	0.010							
4	66.131	59.613	29.375	13.909	6.915	3.304	1.786	0.814	0.407	0.288	0.218	0.149	0.060	0.040	0.030	0.020	0.020								
5	61.667	55.189	26.052	12.242	6.012	2.778	1.478	0.724	0.347	0.248	0.188	0.129	0.060	0.040	0.030	0.020	0.020								
6	57.887	51.458	23.304	10.883	5.228	2.341	1.181	0.575	0.268	0.208	0.169	0.119	0.050	0.030	0.020	0.010	0.010								
7	54.742	48.343	20.982	9.712	4.514	1.984	0.913	0.456	0.198	0.159	0.139	0.109	0.040	0.020	0.010										
8	52.133	45.764	19.067	8.760	3.929	1.706	0.754	0.387	0.149	0.129	0.109	0.099	0.030	0.010											
9	49.792	43.462	17.441	7.887	3.462	1.498	0.655	0.357	0.149	0.129	0.109	0.099	0.030	0.010											
10	47.817	41.558	16.131	7.163	3.115	1.379	0.585	0.337	0.129	0.119	0.099	0.089	0.020												
11	45.873	39.673	14.841	6.458	2.798	1.230	0.476	0.308	0.099	0.099	0.079	0.069													
12	43.958	37.788	13.581	5.794	2.510	1.131	0.417	0.298	0.099	0.099	0.079	0.069													
13	42.083	35.952	12.411	5.159	2.192	1.012	0.357	0.258	0.079	0.079	0.060	0.050													
14	40.526	34.415	11.498	4.663	1.994	0.942	0.317	0.228	0.069	0.069	0.050	0.040													
15	39.226	33.155	10.794	4.316	1.845	0.873	0.268	0.198	0.060	0.060	0.040	0.030													
16	38.046	32.004	10.109	3.958	1.667	0.804	0.228	0.159	0.040	0.040	0.020	0.010													
17	36.974	30.982	9.484	3.611	1.439	0.704	0.198	0.129	0.030	0.030	0.010														
18	35.972	30.030	8.899	3.333	1.260	0.625	0.188	0.119	0.030	0.030	0.010														
19	34.970	29.087	8.284	3.125	1.151	0.585	0.179	0.109	0.030	0.030	0.010														
20	34.028	28.194	7.649	2.847	1.032	0.516	0.169	0.099	0.030	0.030	0.010														
21	33.095	27.302	7.073	2.560	0.913	0.446	0.149	0.079	0.030	0.030	0.010														
22	32.143	26.389	6.528	2.321	0.823	0.397	0.149	0.079	0.030	0.030	0.010														
23	31.270	25.556	6.052	2.103	0.724	0.367	0.149	0.079	0.030	0.030	0.010														
24	30.486	24.821	5.645	1.905	0.625	0.347	0.149	0.079	0.030	0.030	0.010														
25	29.861	24.236	5.367	1.786	0.575	0.327	0.139	0.069	0.020	0.020															
26	29.385	23.780	5.228	1.706	0.546	0.317	0.139	0.069	0.020	0.020															
27	28.939	23.353	5.109	1.597	0.516	0.288	0.129	0.060	0.010	0.010															
28	28.601	23.026	5.020	1.518	0.496	0.268	0.109	0.050																	
29	28.294	22.728	4.921	1.448	0.456	0.238	0.089	0.050																	
30	27.986	22.441	4.792	1.399	0.437	0.218	0.079	0.050																	
31	27.679	22.153	4.623	1.349	0.427	0.208	0.079	0.050																	
32	27.361	21.865	4.435	1.280	0.387	0.169	0.060	0.030																	
33	27.044	21.567	4.266	1.220	0.357	0.139	0.050	0.020																	
34	26.667	21.210	4.097	1.161	0.308	0.099	0.030																		
35	26.319	20.893	3.968	1.121	0.288	0.099	0.030																		
36	25.982	20.595	3.859	1.081	0.288	0.099	0.030																		
37	25.694	20.347	3.780	1.071	0.288	0.099	0.030																		
38	25.357	20.030	3.691	1.062	0.278	0.089	0.030																		
39	24.950	19.643	3.542	1.022	0.258	0.069	0.030																		
40	24.613	19.316	3.403	0.982	0.238	0.050	0.030																		
41	24.335	19.038	3.304	0.952	0.228	0.050	0.030																		
42	24.107	18.810	3.234	0.903	0.198	0.050	0.030																		
43	23.859	18.562	3.155	0.863	0.169	0.050	0.030																		
44	23.621	18.323	3.125	0.863	0.169	0.050	0.030																		
45	23.353	18.056	3.026	0.843	0.159	0.040	0.020																		
46	23.105	17.808	2.937	0.804	0.139	0.020																			
47	22.847	17.560	2.877	0.784	0.139	0.020																			
48	22.550	17.282	2.817	0.744	0.119																				

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	90.038	86.745	60.279	38.133	24.922	14.800	8.391	4.865	2.803	1.259	0.607	0.241	0.125	0.036											
2	77.176	73.927	48.076	28.841	18.102	10.283	5.507	3.071	1.687	0.669	0.295	0.143	0.062												
3	68.616	65.402	40.195	23.297	14.130	7.712	3.990	2.133	1.116	0.375	0.116	0.054	0.009												
4	62.314	59.136	34.518	19.414	11.345	5.990	2.928	1.526	0.777	0.277	0.062	0.018													
5	57.520	54.360	30.260	16.674	9.506	4.918	2.267	1.214	0.580	0.214	0.036	0.009													
6	53.861	50.701	27.127	14.755	8.346	4.249	1.875	1.027	0.446	0.161	0.018	0.009													
7	50.844	47.684	24.601	13.184	7.320	3.633	1.517	0.830	0.330	0.098	0.009														
8	48.121	44.961	22.351	11.756	6.409	3.044	1.223	0.678	0.241	0.071	0.009														
9	45.863	42.712	20.495	10.524	5.632	2.615	1.009	0.571	0.179	0.054															
10	43.970	40.819	19.013	9.480	5.008	2.303	0.857	0.491	0.161	0.045															
11	42.114	38.963	17.558	8.480	4.365	1.982	0.714	0.393	0.143	0.027															
12	40.561	37.428	16.397	7.766	3.874	1.687	0.580	0.357	0.134	0.027															
13	39.248	36.133	15.398	7.168	3.472	1.464	0.473	0.312	0.107	0.027															
14	38.168	35.080	14.621	6.730	3.205	1.366	0.420	0.259	0.071	0.027															
15	37.294	34.232	14.005	6.391	2.990	1.268	0.384	0.223	0.045	0.027															
16	36.446	33.402	13.425	6.079	2.847	1.178	0.357	0.214	0.036	0.018															
17	35.642	32.598	12.889	5.775	2.669	1.107	0.312	0.170	0.027	0.018															
18	34.768	31.724	12.291	5.409	2.446	1.027	0.286	0.152	0.018	0.009															
19	33.875	30.840	11.675	5.034	2.205	0.937	0.223	0.125	0.009																
20	33.080	30.063	11.185	4.740	2.008	0.857	0.196	0.107																	
21	32.473	29.465	10.863	4.543	1.901	0.812	0.179	0.107																	
22	31.875	28.867	10.515	4.320	1.803	0.759	0.152	0.098																	
23	31.206	28.198	10.113	4.053	1.714	0.732	0.152	0.098																	
24	30.465	27.457	9.640	3.794	1.589	0.687	0.143	0.098																	
25	29.930	26.921	9.381	3.669	1.517	0.652	0.134	0.089																	
26	29.358	26.350	9.087	3.535	1.491	0.634	0.134	0.089																	
27	28.841	25.832	8.828	3.392	1.401	0.580	0.116	0.071																	
28	28.367	25.359	8.596	3.303	1.348	0.553	0.116	0.071																	
29	27.939	24.931	8.373	3.205	1.294	0.527	0.107	0.071																	
30	27.591	24.583	8.230	3.133	1.250	0.500	0.089	0.071																	
31	27.234	24.226	8.069	3.026	1.223	0.491	0.089	0.071																	
32	26.832	23.824	7.846	2.892	1.205	0.491	0.089	0.071																	
33	26.413	23.404	7.650	2.767	1.205	0.491	0.089	0.071																	
34	26.011	23.003	7.462	2.633	1.196	0.482	0.080	0.071																	
35	25.582	22.574	7.239	2.473	1.160	0.455	0.080	0.071																	
36	25.118	22.119	6.989	2.321	1.107	0.402	0.080	0.071																	
37	24.717	21.717	6.730	2.205	1.035	0.357	0.080	0.071																	
38	24.351	21.369	6.498	2.089	0.964	0.339	0.080	0.071																	
39	24.038	21.066	6.293	1.991	0.893	0.321	0.071	0.062																	
40	23.744	20.771	6.132	1.901	0.830	0.286	0.054	0.045																	
41	23.485	20.512	5.972	1.839	0.794	0.268	0.036	0.027																	
42	23.253	20.280	5.829	1.785	0.777	0.250	0.018	0.009																	
43	23.003	20.030	5.668	1.696	0.759	0.241	0.009																		
44	22.690	19.718	5.481	1.598	0.732	0.232	0.009																		
45	22.360	19.388	5.275	1.473	0.705	0.223	0.009																		
46	21.985	19.013	5.052	1.357	0.661	0.205	0.009																		
47	21.682	18.727	4.927	1.321	0.652	0.196	0.009																		
48	21.369	18.424	4.793	1.268	0.634	0.196	0.009																		

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Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

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 Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																								
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	90.911	88.096	60.442	36.425	22.085	12.794	7.308	4.015	2.251	1.277	0.655	0.361	0.118	0.067	0.017										
2	79.057	76.285	49.404	28.167	16.448	9.148	5.032	2.671	1.487	0.798	0.386	0.218	0.067	0.042											
3	70.581	67.834	41.692	22.900	13.088	7.174	3.881	2.016	1.100	0.521	0.218	0.134	0.050	0.034											
4	64.701	61.979	36.509	19.582	11.030	5.939	3.192	1.605	0.899	0.403	0.151	0.101	0.050	0.034											
5	60.148	57.468	32.661	17.112	9.467	5.015	2.680	1.311	0.748	0.294	0.101	0.076	0.034	0.017											
6	56.292	53.646	29.452	15.096	8.073	4.226	2.251	1.092	0.605	0.193	0.050	0.042	0.017												
7	52.898	50.286	26.647	13.323	6.855	3.562	1.924	0.899	0.470	0.160	0.025	0.025	0.008												
8	49.992	47.413	24.303	11.878	5.805	2.991	1.630	0.748	0.361	0.134	0.017	0.017													
9	47.656	45.103	22.564	10.812	5.057	2.621	1.453	0.647	0.311	0.109	0.017	0.017													
10	45.733	43.196	21.195	10.005	4.511	2.361	1.344	0.571	0.260	0.092	0.017	0.017													
11	44.044	41.507	19.960	9.350	4.125	2.184	1.243	0.504	0.210	0.076	0.017	0.017													
12	42.423	39.886	18.758	8.686	3.705	1.949	1.109	0.445	0.185	0.076	0.017	0.017													
13	41.037	38.500	17.708	8.056	3.327	1.722	0.966	0.378	0.160	0.076	0.017	0.017													
14	39.743	37.206	16.759	7.451	3.041	1.571	0.865	0.336	0.143	0.067	0.017	0.017													
15	38.592	36.055	15.944	6.939	2.764	1.386	0.714	0.244	0.101	0.042															
16	37.483	34.946	15.155	6.435	2.537	1.235	0.588	0.202	0.084	0.034															
17	36.425	33.888	14.373	5.981	2.310	1.084	0.487	0.160	0.059	0.008															
18	35.526	32.989	13.727	5.662	2.134	0.991	0.428	0.143	0.050																
19	34.535	32.006	13.021	5.301	1.932	0.890	0.370	0.118	0.025																
20	33.535	31.015	12.298	4.965	1.781	0.832	0.328	0.109	0.025																
21	32.653	30.150	11.668	4.646	1.605	0.722	0.260	0.092	0.025																
22	31.888	29.419	11.156	4.360	1.453	0.630	0.218	0.084	0.025																
23	31.250	28.822	10.761	4.125	1.344	0.580	0.218	0.084	0.025																
24	30.528	28.133	10.274	3.847	1.201	0.496	0.185	0.067	0.017																
25	29.822	27.461	9.837	3.604	1.067	0.420	0.160	0.042																	
26	29.251	26.899	9.484	3.419	0.966	0.386	0.143	0.025																	
27	28.705	26.369	9.148	3.251	0.865	0.361	0.118	0.008																	
28	28.276	25.958	8.888	3.159	0.823	0.344	0.101	0.008																	
29	27.831	25.546	8.619	3.041	0.748	0.336	0.092	0.008																	
30	27.352	25.092	8.317	2.890	0.664	0.319	0.076	0.008																	
31	26.873	24.630	8.023	2.755	0.605	0.286	0.059	0.008																	
32	26.386	24.185	7.771	2.671	0.580	0.269	0.042	0.008																	
33	25.949	23.790	7.519	2.554	0.563	0.252	0.025																		
34	25.571	23.446	7.275	2.428	0.546	0.252	0.025																		
35	25.193	23.102	7.023	2.293	0.521	0.244	0.025																		
36	24.857	22.791	6.788	2.159	0.487	0.227	0.025																		
37	24.563	22.513	6.578	2.041	0.462	0.218	0.017																		
38	24.294	22.253	6.368	1.941	0.437	0.210	0.017																		
39	24.026	21.984	6.174	1.831	0.395	0.185	0.017																		
40	23.774	21.732	6.015	1.739	0.361	0.160	0.017																		
41	23.513	21.489	5.880	1.689	0.353	0.151	0.017																		
42	23.278	21.262	5.788	1.663	0.353	0.151	0.017																		
43	23.034	21.027	5.670	1.638	0.336	0.143	0.017																		
44	22.807	20.825	5.561	1.613	0.328	0.143	0.017																		
45	22.555	20.623	5.444	1.571	0.319	0.143	0.017																		
46	22.253	20.371	5.292	1.495	0.302	0.126																			
47	22.001	20.145	5.158	1.420	0.294	0.118																			
48	21.707	19.867	4.982	1.344	0.277	0.101																			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	91.667	87.691	63.455	38.316	23.689	15.148	9.844	6.215	3.898	2.344	1.163	0.451	0.200	0.069	0.017	0.009									
2	80.677	76.727	53.299	30.425	17.969	11.215	6.979	4.236	2.543	1.450	0.651	0.252	0.095	0.017											
3	72.917	69.002	46.354	25.495	14.714	9.097	5.538	3.307	1.927	1.094	0.434	0.165	0.061	0.017											
4	67.283	63.368	41.484	22.205	12.656	7.700	4.609	2.682	1.545	0.842	0.269	0.078	0.026	0.009											
5	63.064	59.167	38.012	19.905	11.215	6.719	3.915	2.188	1.233	0.642	0.182	0.043	0.009												
6	59.497	55.616	35.139	17.969	10.017	5.981	3.446	1.918	1.016	0.495	0.113	0.017													
7	56.398	52.526	32.656	16.224	8.993	5.304	3.064	1.675	0.816	0.373	0.061														
8	53.594	49.740	30.408	14.670	8.108	4.722	2.700	1.450	0.651	0.243	0.026														
9	51.224	47.387	28.533	13.429	7.413	4.297	2.439	1.267	0.547	0.165															
10	49.149	45.339	26.936	12.413	6.875	3.950	2.231	1.128	0.486	0.130															
11	47.257	43.464	25.504	11.441	6.311	3.585	1.997	0.946	0.391	0.069															
12	45.556	41.780	24.254	10.608	5.885	3.307	1.780	0.781	0.313	0.043															
13	43.880	40.130	22.995	9.748	5.391	2.960	1.545	0.642	0.243	0.026															
14	42.596	38.880	22.101	9.167	5.052	2.734	1.424	0.599	0.200	0.009															
15	41.528	37.839	21.372	8.672	4.757	2.517	1.293	0.573	0.174	0.009															
16	40.512	36.840	20.625	8.142	4.444	2.283	1.163	0.530	0.139	0.009															
17	39.618	35.964	19.957	7.656	4.149	2.066	1.033	0.477	0.113	0.009															
18	38.689	35.043	19.236	7.153	3.872	1.875	0.903	0.425	0.095	0.009															
19	37.795	34.149	18.533	6.701	3.629	1.745	0.807	0.391	0.087	0.009															
20	36.927	33.290	17.839	6.267	3.394	1.649	0.747	0.356	0.069	0.009															
21	36.155	32.517	17.274	5.938	3.186	1.536	0.660	0.295	0.043																
22	35.373	31.736	16.719	5.642	3.012	1.458	0.608	0.260	0.026																
23	34.531	30.894	16.111	5.304	2.856	1.372	0.538	0.217	0.017																
24	33.750	30.113	15.564	5.026	2.708	1.293	0.486	0.174	0.017																
25	33.082	29.462	15.139	4.835	2.604	1.250	0.460	0.156	0.017																
26	32.439	28.837	14.757	4.688	2.526	1.207	0.425	0.148	0.017																
27	31.849	28.264	14.436	4.575	2.474	1.189	0.408	0.139	0.017																
28	31.311	27.743	14.123	4.444	2.422	1.181	0.399	0.130	0.009																
29	30.807	27.248	13.846	4.358	2.370	1.163	0.382	0.122																	
30	30.286	26.727	13.524	4.236	2.283	1.111	0.347	0.095																	
31	29.774	26.215	13.186	4.106	2.188	1.050	0.295	0.069																	
32	29.384	25.842	12.951	4.028	2.144	1.007	0.260	0.043																	
33	28.941	25.417	12.674	3.915	2.057	0.946	0.208	0.026																	
34	28.446	24.939	12.361	3.785	1.944	0.885	0.182	0.026																	
35	27.960	24.462	12.066	3.681	1.866	0.833	0.165	0.026																	
36	27.517	24.019	11.797	3.611	1.806	0.790	0.148	0.026																	
37	27.083	23.585	11.528	3.490	1.727	0.729	0.122	0.026																	
38	26.641	23.151	11.241	3.333	1.623	0.642	0.087	0.026																	
39	26.276	22.786	11.033	3.229	1.571	0.608	0.078	0.026																	
40	25.885	22.396	10.773	3.082	1.502	0.556	0.078	0.026																	
41	25.477	21.988	10.504	2.943	1.415	0.486	0.078	0.026																	
42	25.174	21.684	10.313	2.856	1.354	0.443	0.061	0.009																	
43	24.879	21.389	10.148	2.778	1.285	0.408	0.052																		
44	24.531	21.042	9.922	2.674	1.181	0.365	0.052																		
45	24.210	20.721	9.696	2.561	1.085	0.321	0.035																		
46	23.924	20.434	9.497	2.474	1.016	0.304	0.035																		
47	23.637	20.148	9.288	2.396	0.955	0.286	0.026																		
48	23.333	19.844	9.045	2.318	0.894	0.260	0.009																		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	90.129	89.424	73.622	55.318	40.625	28.520	20.010	14.298	9.568	6.502	4.108	2.151	0.924	0.328	0.143	0.034									
2	76.050	75.437	59.778	43.431	30.906	20.959	14.390	10.064	6.536	4.326	2.697	1.353	0.479	0.160	0.059	0.017									
3	67.246	66.658	51.159	36.425	25.479	16.885	11.458	7.771	4.931	3.150	1.941	0.932	0.286	0.092	0.025	0.008									
4	61.139	60.559	45.212	31.695	21.858	14.189	9.560	6.342	3.999	2.445	1.453	0.655	0.168	0.025	0.008										
5	56.746	56.166	40.953	28.444	19.296	12.324	8.207	5.284	3.327	2.025	1.201	0.538	0.109	0.017											
6	53.234	52.655	37.559	25.739	17.188	10.803	7.149	4.469	2.781	1.647	0.983	0.395	0.059	0.008											
7	50.193	49.614	34.619	23.404	15.432	9.535	6.242	3.755	2.361	1.361	0.798	0.269	0.042												
8	47.413	46.833	31.972	21.379	13.995	8.552	5.595	3.285	2.075	1.168	0.680	0.185	0.034												
9	45.019	44.447	29.721	19.657	12.870	7.838	5.074	2.915	1.823	0.983	0.588	0.118	0.017												
10	42.801	42.230	27.646	18.028	11.761	7.098	4.562	2.545	1.563	0.815	0.504	0.076													
11	40.860	40.289	25.840	16.675	10.854	6.510	4.150	2.260	1.319	0.680	0.403	0.034													
12	39.214	38.642	24.328	15.575	10.156	6.032	3.839	2.058	1.184	0.605	0.344	0.025													
13	37.819	37.248	23.068	14.642	9.551	5.637	3.562	1.882	1.042	0.538	0.294	0.025													
14	36.677	36.106	22.026	13.844	8.980	5.259	3.285	1.705	0.924	0.470	0.252	0.025													
15	35.694	35.131	21.169	13.206	8.543	4.965	3.066	1.563	0.815	0.412	0.210	0.025													
16	34.946	34.383	20.539	12.769	8.207	4.788	2.907	1.462	0.764	0.386	0.185	0.025													
17	34.165	33.602	19.851	12.265	7.796	4.578	2.722	1.344	0.672	0.336	0.143	0.025													
18	33.375	32.813	19.145	11.736	7.342	4.293	2.478	1.218	0.605	0.294	0.118	0.017													
19	32.577	32.014	18.431	11.223	6.914	4.024	2.251	1.067	0.529	0.227	0.092														
20	31.695	31.132	17.666	10.677	6.452	3.730	2.058	0.941	0.462	0.193	0.092														
21	30.897	30.334	16.969	10.232	6.065	3.478	1.873	0.832	0.428	0.185	0.092														
22	30.091	29.528	16.247	9.745	5.679	3.209	1.697	0.739	0.378	0.185	0.092														
23	29.200	28.637	15.457	9.266	5.326	2.982	1.537	0.630	0.328	0.151	0.059														
24	28.419	27.873	14.785	8.829	5.024	2.764	1.386	0.554	0.294	0.126	0.034														
25	27.646	27.100	14.096	8.350	4.679	2.554	1.268	0.504	0.269	0.109	0.025														
26	26.949	26.403	13.483	7.922	4.385	2.386	1.193	0.454	0.252	0.101	0.017														
27	26.361	25.815	12.979	7.569	4.141	2.235	1.142	0.420	0.227	0.084	0.017														
28	25.882	25.336	12.584	7.275	3.965	2.109	1.084	0.420	0.227	0.084	0.017														
29	25.445	24.899	12.231	7.023	3.831	2.008	1.033	0.403	0.218	0.076	0.017														
30	24.966	24.420	11.845	6.720	3.671	1.882	0.983	0.361	0.202	0.059	0.017														
31	24.496	23.950	11.450	6.452	3.520	1.764	0.924	0.319	0.168	0.042	0.017														
32	24.051	23.505	11.089	6.216	3.377	1.663	0.865	0.277	0.143	0.017	0.008														
33	23.513	22.967	10.627	5.872	3.125	1.479	0.748	0.210	0.109	0.008															
34	22.984	22.438	10.165	5.536	2.907	1.353	0.672	0.176	0.092																
35	22.530	21.984	9.770	5.276	2.739	1.268	0.630	0.176	0.092																
36	22.077	21.539	9.392	5.007	2.571	1.184	0.571	0.160	0.076																
37	21.749	21.211	9.115	4.780	2.428	1.126	0.529	0.126	0.050																
38	21.413	20.875	8.846	4.578	2.310	1.092	0.496	0.092	0.034																
39	21.018	20.481	8.527	4.301	2.142	1.042	0.445	0.050	0.017																
40	20.623	20.094	8.216	4.049	1.991	0.983	0.395	0.025																	
41	20.304	19.775	7.972	3.889	1.890	0.949	0.378	0.025																	
42	20.077	19.548	7.804	3.780	1.815	0.924	0.361	0.025																	
43	19.901	19.372	7.687	3.696	1.764	0.899	0.344	0.025																	
44	19.657	19.128	7.502	3.562	1.697	0.865	0.328	0.025																	
45	19.338	18.809	7.241	3.385	1.630	0.823	0.311	0.025																	
46	19.002	18.473	6.947	3.209	1.521	0.748	0.286	0.025																	
47	18.700	18.170	6.678	3.033	1.437	0.680	0.260	0.025																	
48	18.422	17.893	6.452	2.890	1.361	0.622	0.235	0.017																	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
 Deployed: 2003

Wave Buoy / CCOData
 Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	83.672	81.979	65.651	48.438	37.422	29.670	23.403	18.030	14.045	11.076	7.648	4.887	3.299	2.222	1.458	0.842	0.365	0.148	0.035						
2	69.913	68.455	52.439	36.918	27.804	21.467	16.580	12.613	9.714	7.622	5.052	3.090	1.988	1.354	0.816	0.477	0.200	0.078	0.026						
3	62.248	60.790	45.087	30.998	23.125	17.700	13.533	10.330	7.943	6.172	4.002	2.413	1.536	1.059	0.590	0.339	0.113	0.043	0.017						
4	56.858	55.408	40.026	27.057	20.026	15.182	11.502	8.811	6.762	5.182	3.281	1.884	1.128	0.755	0.399	0.208	0.052	0.017							
5	52.604	51.155	36.111	24.045	17.752	13.290	10.052	7.613	5.859	4.401	2.734	1.545	0.885	0.556	0.304	0.122	0.026								
6	49.175	47.734	33.021	21.701	16.076	11.875	9.036	6.814	5.269	3.889	2.361	1.302	0.729	0.451	0.234	0.078	0.026								
7	46.215	44.774	30.373	19.731	14.714	10.833	8.281	6.259	4.818	3.481	2.066	1.102	0.599	0.356	0.191	0.043	0.017								
8	43.394	41.953	27.813	17.821	13.290	9.766	7.474	5.651	4.349	3.047	1.771	0.903	0.512	0.304	0.165	0.035	0.017								
9	40.903	39.471	25.547	16.137	12.023	8.837	6.797	5.096	3.863	2.656	1.476	0.738	0.408	0.217	0.113	0.026	0.009								
10	38.828	37.405	23.698	14.792	11.033	8.142	6.198	4.592	3.438	2.283	1.233	0.642	0.339	0.174	0.095	0.017	0.009								
11	36.979	35.556	22.049	13.568	10.104	7.474	5.668	4.149	3.064	1.927	1.016	0.547	0.278	0.130	0.069	0.009									
12	35.269	33.846	20.538	12.474	9.297	6.884	5.252	3.793	2.795	1.701	0.903	0.495	0.252	0.113	0.052										
13	33.715	32.292	19.201	11.528	8.550	6.328	4.809	3.429	2.500	1.484	0.764	0.417	0.191	0.078	0.026										
14	32.474	31.050	18.186	10.842	8.004	5.938	4.479	3.194	2.309	1.354	0.660	0.356	0.148	0.043											
15	31.432	30.017	17.370	10.295	7.622	5.668	4.245	3.004	2.179	1.293	0.625	0.339	0.130	0.035											
16	30.382	28.967	16.563	9.740	7.179	5.321	3.941	2.769	2.005	1.163	0.538	0.313	0.113	0.017											
17	29.392	27.995	15.799	9.210	6.745	4.991	3.715	2.604	1.866	1.042	0.486	0.295	0.095	0.017											
18	28.411	27.031	14.974	8.611	6.285	4.627	3.446	2.422	1.710	0.929	0.408	0.260	0.069	0.017											
19	27.578	26.207	14.314	8.108	5.946	4.384	3.255	2.283	1.571	0.825	0.373	0.226	0.052	0.009											
20	26.719	25.365	13.646	7.569	5.530	4.089	3.012	2.092	1.398	0.738	0.330	0.191	0.035												
21	25.851	24.514	12.943	6.988	5.078	3.785	2.769	1.927	1.250	0.651	0.286	0.174	0.026												
22	25.087	23.776	12.326	6.502	4.705	3.559	2.604	1.806	1.155	0.599	0.252	0.148	0.009												
23	24.323	23.056	11.754	6.111	4.410	3.342	2.465	1.701	1.102	0.556	0.226	0.139	0.009												
24	23.533	22.431	11.250	5.781	4.106	3.090	2.283	1.580	1.033	0.495	0.191	0.130	0.009												
25	23.021	21.918	10.825	5.521	3.872	2.899	2.170	1.493	1.016	0.477	0.182	0.130	0.009												
26	22.543	21.441	10.443	5.321	3.698	2.786	2.083	1.432	0.972	0.451	0.174	0.122													
27	22.057	20.955	10.061	5.104	3.524	2.682	2.014	1.380	0.938	0.425	0.156	0.113													
28	21.641	20.538	9.748	4.965	3.438	2.630	1.962	1.328	0.894	0.391	0.122	0.087													
29	21.207	20.104	9.410	4.809	3.307	2.526	1.875	1.276	0.868	0.365	0.113	0.078													
30	20.833	19.731	9.097	4.644	3.177	2.422	1.797	1.215	0.842	0.339	0.113	0.078													
31	20.495	19.392	8.819	4.462	3.030	2.326	1.727	1.163	0.799	0.295	0.095	0.078													
32	20.148	19.054	8.576	4.332	2.960	2.283	1.701	1.163	0.799	0.295	0.095	0.078													
33	19.748	18.663	8.299	4.175	2.865	2.205	1.641	1.128	0.764	0.269	0.095	0.078													
34	19.366	18.299	8.021	4.036	2.769	2.127	1.580	1.102	0.738	0.252	0.095	0.078													
35	19.045	17.995	7.778	3.906	2.656	2.040	1.510	1.068	0.703	0.217	0.078	0.061													
36	18.672	17.622	7.509	3.724	2.517	1.910	1.398	1.007	0.642	0.165	0.061	0.043													
37	18.333	17.292	7.309	3.611	2.439	1.832	1.319	0.964	0.599	0.148	0.052	0.035													
38	18.012	16.971	7.118	3.490	2.361	1.753	1.241	0.903	0.538	0.148	0.052	0.035													
39	17.726	16.684	6.944	3.368	2.274	1.667	1.172	0.851	0.486	0.148	0.052	0.035													
40	17.509	16.467	6.840	3.299	2.214	1.606	1.128	0.825	0.460	0.148	0.052	0.035													
41	17.292	16.267	6.736	3.229	2.170	1.563	1.094	0.790	0.425	0.139	0.043	0.026													
42	17.049	16.042	6.623	3.142	2.118	1.510	1.042	0.738	0.373	0.122	0.026	0.009													
43	16.814	15.825	6.484	3.030	2.014	1.406	0.955	0.651	0.304	0.113	0.017														
44	16.615	15.625	6.354	2.943	1.953	1.346	0.911	0.616	0.286	0.104	0.009														
45	16.415	15.425	6.241	2.873	1.901	1.319	0.894	0.599	0.278	0.095															
46	16.224	15.243	6.129	2.830	1.875	1.293	0.885	0.590	0.269	0.087															
47	15.990	15.017	6.007	2.760	1.814	1.250	0.859	0.582	0.260	0.078															
48	15.833	14.870	5.964	2.743	1.797	1.250	0.859	0.582	0.260	0.078															

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																								
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5
1	87.571	86.580	72.706	52.025	37.529	28.277	21.378	16.882	12.513	8.916	6.252	4.160	2.866	2.067	1.412	0.882	0.487	0.261	0.134	0.059	0.025	0.008	0.008		
2	73.050	72.134	58.588	39.958	27.891	20.462	15.168	11.924	8.689	6.067	4.193	2.613	1.815	1.244	0.773	0.445	0.218	0.126	0.059	0.017	0.008				
3	64.563	63.681	50.420	33.630	23.210	16.807	12.378	9.765	6.966	4.790	3.294	2.008	1.429	0.933	0.555	0.286	0.118	0.076	0.034	0.008					
4	58.832	57.983	44.950	29.588	20.294	14.521	10.706	8.387	5.908	3.983	2.748	1.664	1.219	0.740	0.454	0.227	0.101	0.067	0.034	0.008					
5	54.311	53.479	40.639	26.462	18.092	12.849	9.403	7.319	5.059	3.294	2.311	1.361	0.975	0.546	0.336	0.160	0.050	0.025	0.008						
6	50.361	49.538	36.891	23.748	16.227	11.462	8.361	6.487	4.429	2.815	1.983	1.143	0.815	0.437	0.252	0.134	0.042	0.017							
7	46.924	46.118	33.664	21.387	14.613	10.286	7.513	5.756	3.857	2.437	1.706	0.933	0.647	0.370	0.210	0.101	0.025								
8	43.908	43.118	30.882	19.336	13.168	9.219	6.773	5.151	3.345	2.101	1.445	0.731	0.504	0.261	0.160	0.067	0.008								
9	41.479	40.723	28.647	17.756	12.084	8.403	6.151	4.740	3.017	1.908	1.303	0.630	0.420	0.218	0.134	0.042									
10	39.445	38.731	26.773	16.471	11.177	7.689	5.571	4.252	2.630	1.639	1.067	0.479	0.336	0.168	0.092	0.008									
11	37.605	36.924	25.084	15.328	10.437	7.109	5.134	3.899	2.378	1.462	0.899	0.412	0.311	0.151	0.084	0.008									
12	35.798	35.151	23.437	14.185	9.664	6.504	4.672	3.479	2.067	1.286	0.773	0.336	0.261	0.109	0.059										
13	34.361	33.748	22.109	13.261	9.000	6.017	4.294	3.177	1.849	1.134	0.681	0.286	0.227	0.092	0.050										
14	33.244	32.647	21.109	12.588	8.521	5.647	4.008	2.958	1.706	1.025	0.622	0.261	0.202	0.084	0.042										
15	32.235	31.647	20.235	11.958	8.042	5.269	3.723	2.723	1.571	0.916	0.546	0.218	0.160	0.067	0.025										
16	31.345	30.756	19.437	11.328	7.605	4.899	3.462	2.504	1.437	0.824	0.471	0.168	0.118	0.050	0.008										
17	30.655	30.084	18.782	10.840	7.277	4.613	3.244	2.353	1.361	0.765	0.429	0.143	0.109	0.042											
18	29.992	29.420	18.143	10.336	6.899	4.311	3.008	2.143	1.261	0.672	0.353	0.109	0.092	0.034											
19	29.395	28.832	17.571	9.874	6.546	4.034	2.790	1.941	1.151	0.597	0.319	0.076	0.059	0.017											
20	28.824	28.269	17.008	9.437	6.244	3.815	2.605	1.773	1.050	0.538	0.303	0.059	0.050	0.017											
21	28.227	27.672	16.437	8.975	5.916	3.605	2.454	1.664	0.983	0.496	0.286	0.050	0.050	0.017											
22	27.622	27.067	15.857	8.546	5.630	3.412	2.319	1.555	0.899	0.437	0.244	0.050	0.050	0.017											
23	26.983	26.445	15.269	8.126	5.328	3.193	2.151	1.403	0.798	0.361	0.185	0.050	0.050	0.017											
24	26.227	25.706	14.563	7.639	5.000	2.966	2.000	1.277	0.714	0.336	0.160	0.050	0.050	0.017											
25	25.546	25.050	13.958	7.269	4.756	2.790	1.849	1.143	0.630	0.303	0.143	0.050	0.050	0.017											
26	24.992	24.521	13.471	6.983	4.555	2.639	1.714	1.025	0.529	0.244	0.134	0.050	0.050	0.017											
27	24.546	24.092	13.092	6.756	4.387	2.496	1.580	0.916	0.454	0.202	0.118	0.050	0.050	0.017											
28	24.109	23.672	12.706	6.521	4.219	2.361	1.471	0.840	0.403	0.193	0.109	0.050	0.050	0.017											
29	23.714	23.277	12.361	6.286	4.084	2.261	1.370	0.773	0.345	0.160	0.084	0.050	0.050	0.017											
30	23.269	22.849	11.966	6.042	3.941	2.185	1.319	0.748	0.319	0.134	0.076	0.050	0.050	0.017											
31	22.874	22.454	11.622	5.798	3.782	2.084	1.244	0.689	0.286	0.118	0.076	0.050	0.050	0.017											
32	22.479	22.067	11.286	5.555	3.613	1.983	1.193	0.655	0.269	0.109	0.076	0.050	0.050	0.017											
33	22.076	21.664	10.933	5.361	3.479	1.891	1.109	0.597	0.244	0.101	0.067	0.042	0.042	0.008											
34	21.622	21.227	10.546	5.168	3.361	1.840	1.059	0.571	0.227	0.092	0.067	0.042	0.042	0.008											
35	21.134	20.756	10.126	4.924	3.177	1.714	0.966	0.521	0.210	0.076	0.059	0.034	0.034												
36	20.714	20.353	9.765	4.740	3.050	1.630	0.916	0.504	0.210	0.076	0.059	0.034	0.034												
37	20.261	19.908	9.353	4.529	2.916	1.546	0.857	0.479	0.202	0.067	0.050	0.025	0.025												
38	19.916	19.563	9.025	4.361	2.824	1.496	0.824	0.462	0.202	0.067	0.050	0.025	0.025												
39	19.664	19.311	8.798	4.252	2.765	1.454	0.798	0.437	0.193	0.059	0.042	0.017	0.017												
40	19.395	19.059	8.580	4.168	2.723	1.412	0.782	0.420	0.193	0.059	0.042	0.017	0.017												
41	19.160	18.824	8.378	4.067	2.647	1.336	0.723	0.361	0.176	0.042	0.025														
42	18.933	18.597	8.227	4.017	2.597	1.286	0.689	0.328	0.160	0.042	0.025														
43	18.698	18.370	8.076	3.975	2.555	1.244	0.664	0.319	0.151	0.034	0.017														
44	18.496	18.168	7.941	3.908	2.487	1.185	0.622	0.286	0.126	0.017															
45	18.286	17.966	7.807	3.849	2.429	1.151	0.605	0.269	0.118	0.017															
46	18.034	17.714	7.613	3.731	2.328	1.076	0.546	0.218	0.084																
47	17.765	17.445	7.395	3.622	2.244	1.017	0.504	0.176	0.067																
48	17.471	17.151	7.134	3.513	2.168	0.975	0.479	0.151	0.050																

Frequency Table for Month 1
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 1

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	14	411	786	307	39	4																				1561	13.16
<4	40	518	821	945	912	565	274	149	30	1																4255	35.86
<5	19	194	283	260	303	419	506	582	563	423	194	69	23	1												3839	32.36
<6		52	126	108	65	102	113	122	159	193	225	194	144	108	71	36	25	6								1849	15.58
<7		6	42	28	32	19	17	10	19	5	5	8	8	5	16	18	9	11	14	7	6	3				288	2.43
<8		1	6	15	9	5	8	2																		46	0.39
<9				3	11	5		6	1																	26	0.22
<10																										0	0.00
<11																										0	0.00
																										11864	100.00
Count	73	1182	2064	1666	1371	1119	918	871	772	622	424	271	175	114	87	54	34	17	14	7	6	3	0	0	0	11864	
%	0.62	9.96	17.40	14.04	11.56	9.43	7.74	7.34	6.51	5.24	3.57	2.28	1.48	0.96	0.73	0.46	0.29	0.14	0.12	0.06	0.05	0.03	0.00	0.00	0.00	100.00	

Frequency Table for Month 2
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 2

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	16	663	703	224	55	2																				1663	16.02
<4	133	634	947	852	751	432	222	94	22	1																4088	39.37
<5	27	294	257	254	291	349	396	390	280	157	73	26	1													2795	26.92
<6	2	172	143	85	109	93	85	101	110	148	109	93	71	28	22	10										1381	13.30
<7		53	106	31	33	24	18	11	10	9	2	4	3	4	2	5	1									316	3.04
<8		15	52	11	6	3	8																			95	0.91
<9		3	13	13	3	3																				35	0.34
<10			2	5	2																					9	0.09
<11			1																							1	0.01
																										10383	100.00
Count	178	1834	2224	1475	1250	906	729	596	422	315	184	123	75	32	24	15	1	0	0	0	0	0	0	0	0	10383	
%	1.71	17.66	21.42	14.21	12.04	8.73	7.02	5.74	4.06	3.03	1.77	1.18	0.72	0.31	0.23	0.14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 3
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 3

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1	1																									1	0.01
<2																										0	0.00
<3	46	567	747	319	82	2																				1763	16.97
<4	191	842	1109	1060	954	427	242	72	22	2																4921	47.36
<5	57	276	308	256	290	333	287	216	190	107	58	21	11													2410	23.19
<6		150	118	87	59	60	45	53	58	91	64	41	40	32	18	9	6	1								932	8.97
<7		43	79	33	36	22	21	10	8	3	3	3	4	4	5	2	4	6	1							287	2.76
<8		1	18	14	5	4	4	4																		50	0.48
<9			4	1	4	3	4																			16	0.15
<10		4	2		4			1																		11	0.11
<11																										0	0.00
																										10391	100.00
Count	295	1883	2385	1770	1434	851	603	356	278	203	125	65	55	36	23	11	10	7	1	0	0	0	0	0	0	10391	
%	2.84	18.12	22.95	17.03	13.80	8.19	5.80	3.43	2.68	1.95	1.20	0.63	0.53	0.35	0.22	0.11	0.10	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 4
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 4

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	115	1175	1482	462	48																					3282	29.91
<4	338	1435	1267	850	455	279	116	36	9																	4785	43.60
<5	78	600	246	181	145	123	136	131	70	28	9	4	1													1752	15.97
<6	1	287	188	77	56	41	30	14	37	15	8	6	4	6												770	7.02
<7		55	157	46	26	13	5	1																		303	2.76
<8		3	33	24	15	2																				77	0.70
<9					4	1																				5	0.05
<10																										0	0.00
<11																										0	0.00
																										10974	100.00
Count	532	3555	3373	1640	749	459	287	182	116	43	17	10	5	6	0	0	0	0	0	0	0	0	0	0	0	10974	
%	4.85	32.39	30.74	14.94	6.83	4.18	2.62	1.66	1.06	0.39	0.15	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 5
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 5

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	78	1025	1141	492	87	5																				2828	28.99
<4	266	1194	1121	887	603	387	200	97	23																	4778	48.97
<5	22	368	172	124	125	149	196	142	113	77	33	11	4	1												1537	15.75
<6		128	88	35	30	29	27	14	10	20	32	21	19	16	3	3										475	4.87
<7		23	57	20	4	7	6							1	1	2										121	1.24
<8			4	7	4	2																				17	0.17
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										9756	100.00
Count	366	2738	2583	1565	853	579	429	253	146	97	65	32	23	18	4	5	0	0	0	0	0	0	0	0	0	9756	
%	3.75	28.06	26.48	16.04	8.74	5.93	4.40	2.59	1.50	0.99	0.67	0.33	0.24	0.18	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 6
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 6

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	195	1634	1261	480	89																					3659	37.55
<4	427	1294	993	703	545	261	140	53	6																	4422	45.38
<5	30	408	154	108	75	112	115	64	58	22	12	12	4	1												1175	12.06
<6		119	120	24	8	9	4		3	6	5	7	2	2	2	1	3									315	3.23
<7		24	81	31													1	4	3	1						145	1.49
<8		1	12	15																						28	0.29
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										9744	100.00
Count	652	3480	2621	1361	717	382	259	117	67	28	17	19	6	3	2	1	4	4	3	1	0	0	0	0	0	9744	
%	6.69	35.71	26.90	13.97	7.36	3.92	2.66	1.20	0.69	0.29	0.17	0.19	0.06	0.03	0.02	0.01	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 7

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 7

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2		1																								1	0.01
<3	89	1481	1365	590	152	7																				3684	33.80
<4	252	1214	1022	872	929	596	252	73	32	4																5246	48.13
<5	13	236	174	123	166	223	220	199	151	63	34	8	2													1612	14.79
<6		56	48	23	24	14	5	14	31	37	23	11	12	9												307	2.82
<7		4	9	16	10	1					1	1														42	0.39
<8			2	1	2	2																				7	0.06
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										10899	100.00
Count	354	2992	2620	1625	1283	843	477	286	214	104	58	20	14	9	0	0	0	0	0	0	0	0	0	0	0	10899	
%	3.25	27.45	24.04	14.91	11.77	7.73	4.38	2.62	1.96	0.95	0.53	0.18	0.13	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 8
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 8

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2		5																								5	0.04
<3	147	1788	1617	661	105	1																				4319	37.23
<4	164	1325	1154	1037	963	528	238	107	30																	5546	47.81
<5	1	182	149	136	157	223	223	150	114	77	26	11	2													1451	12.51
<6		27	49	23	4	9	12	10	7	21	26	31	9	7	4											239	2.06
<7			15	12																						27	0.23
<8			5	3	4	2																				14	0.12
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										11601	100.00
Count	312	3327	2989	1872	1233	763	473	267	151	98	52	42	11	7	4	0	0	0	0	0	0	0	0	0	0	11601	
%	2.69	28.68	25.77	16.14	10.63	6.58	4.08	2.30	1.30	0.84	0.45	0.36	0.09	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 9
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 9

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	116	1340	1335	539	84	1																				3415	30.19
<4	298	1119	1406	1131	819	497	271	119	41	2																5703	50.41
<5	23	271	178	130	169	180	220	194	172	139	66	20	2													1764	15.59
<6		79	65	22	30	10	11	15	22	25	43	31	22	8	1	1										385	3.40
<7		7	27	1	3	2								3		1	1									44	0.39
<8			2																							2	0.02
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										11313	100.00
Count	437	2816	3013	1823	1105	690	502	328	235	166	109	51	24	11	1	2	0	0	0	0	0	0	0	0	0	11313	
%	3.86	24.89	26.63	16.11	9.77	6.10	4.44	2.90	2.08	1.47	0.96	0.45	0.21	0.10	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 10

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 10

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	16	807	1002	403	65	1																				2294	19.40
<4	27	825	985	1167	1163	816	332	168	52	4																5539	46.85
<5	3	179	175	244	319	299	414	475	368	303	196	82	18	3												3078	26.03
<6		60	81	39	29	38	37	30	36	62	114	110	89	34	21	9										789	6.67
<7		16	30	23	8	8	6	6	2				1			2	2									104	0.88
<8			6	7	1	1		1	1																	17	0.14
<9			1	1																						2	0.02
<10																										0	0.00
<11																										0	0.00
																										11823	100.00
Count	46	1887	2280	1884	1585	1163	789	680	459	369	310	192	108	37	21	11	2	0	0	0	0	0	0	0	0	11823	
%	0.39	15.96	19.28	15.94	13.41	9.84	6.67	5.75	3.88	3.12	2.62	1.62	0.91	0.31	0.18	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 11

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Wave Buoy / CCOData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 11

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	27	1014	1075	354	51	2																				2523	23.31
<4	91	695	754	772	657	487	295	139	24	1																3915	36.17
<5	9	131	175	195	228	286	369	325	314	343	246	89	18	2												2730	25.22
<6		56	48	65	52	46	62	92	93	134	167	177	164	121	93	61	20	5								1456	13.45
<7		3	27	13	13	7	8	4	4	4	2	1	7	7	18	22	23	20	13	3						199	1.84
<8				1																						1	0.01
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										10824	100.00
Count	127	1899	2079	1400	1001	828	734	560	435	482	415	267	189	130	111	83	43	25	13	3	0	0	0	0	0	10824	
%	1.17	17.54	19.21	12.93	9.25	7.65	6.78	5.17	4.02	4.45	3.83	2.47	1.75	1.20	1.03	0.77	0.40	0.23	0.12	0.03	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 12
Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

Table A 039
Wave Buoy / CCOData
Serial No.: 0000

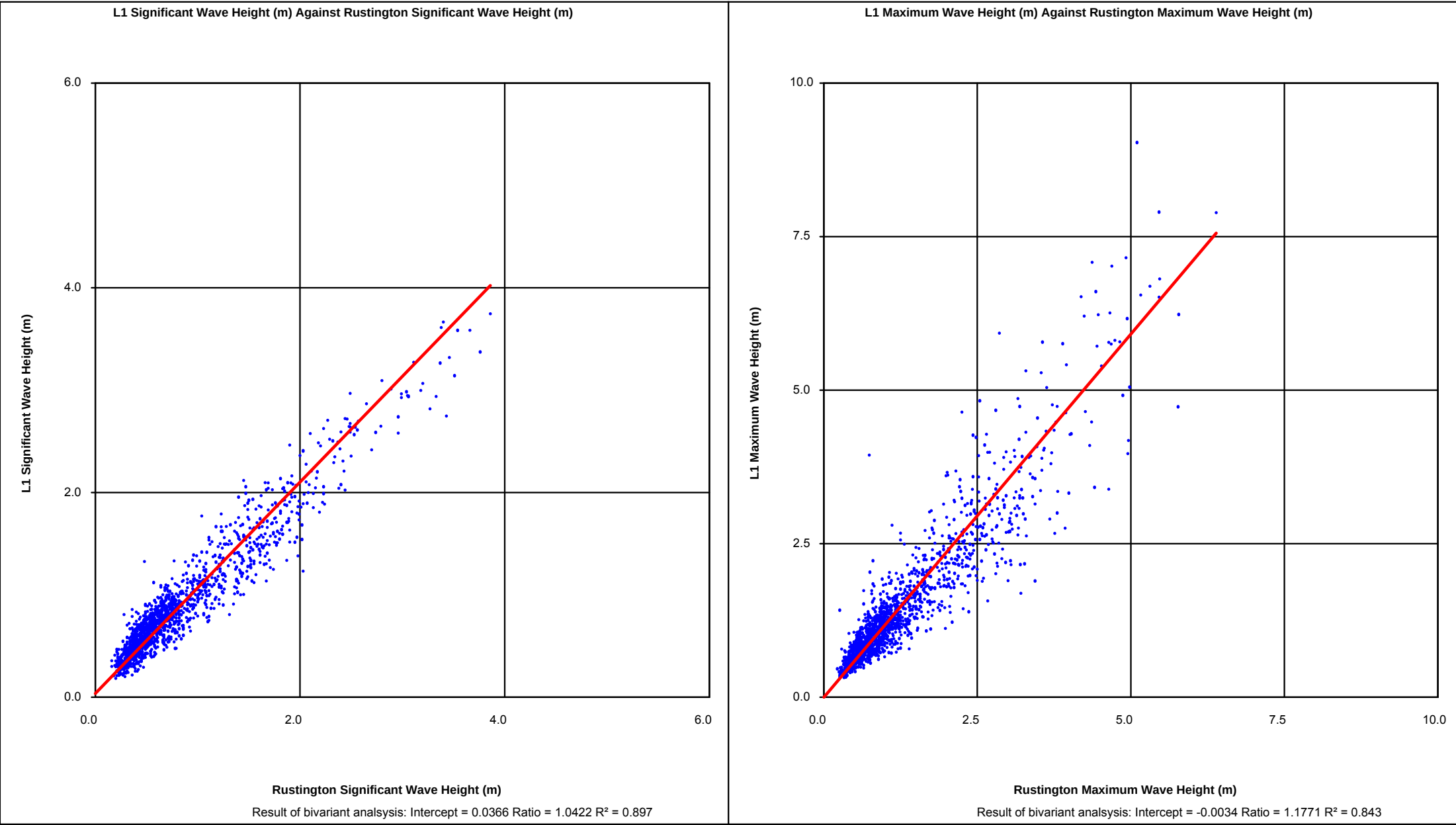
Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

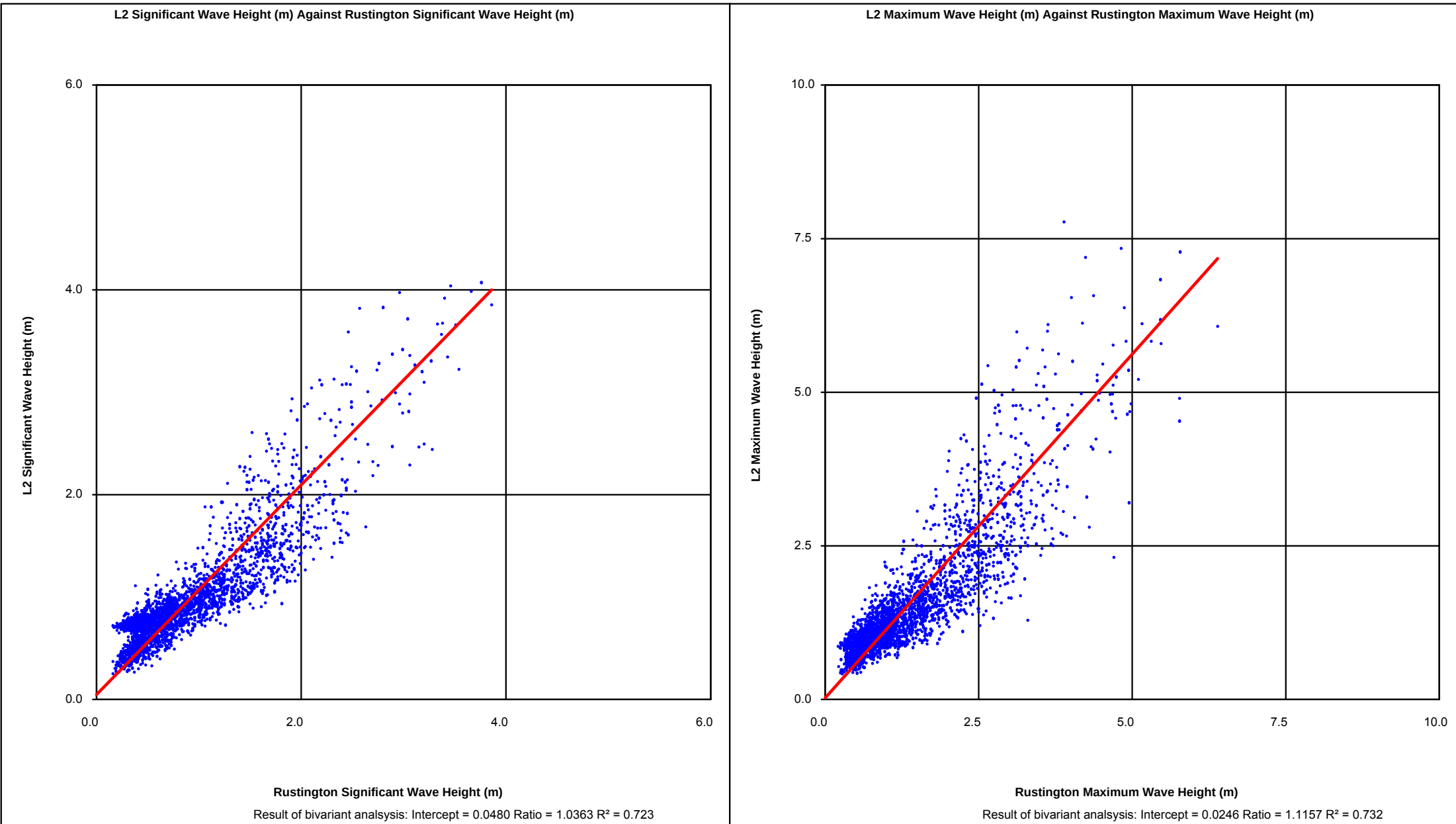
Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 12

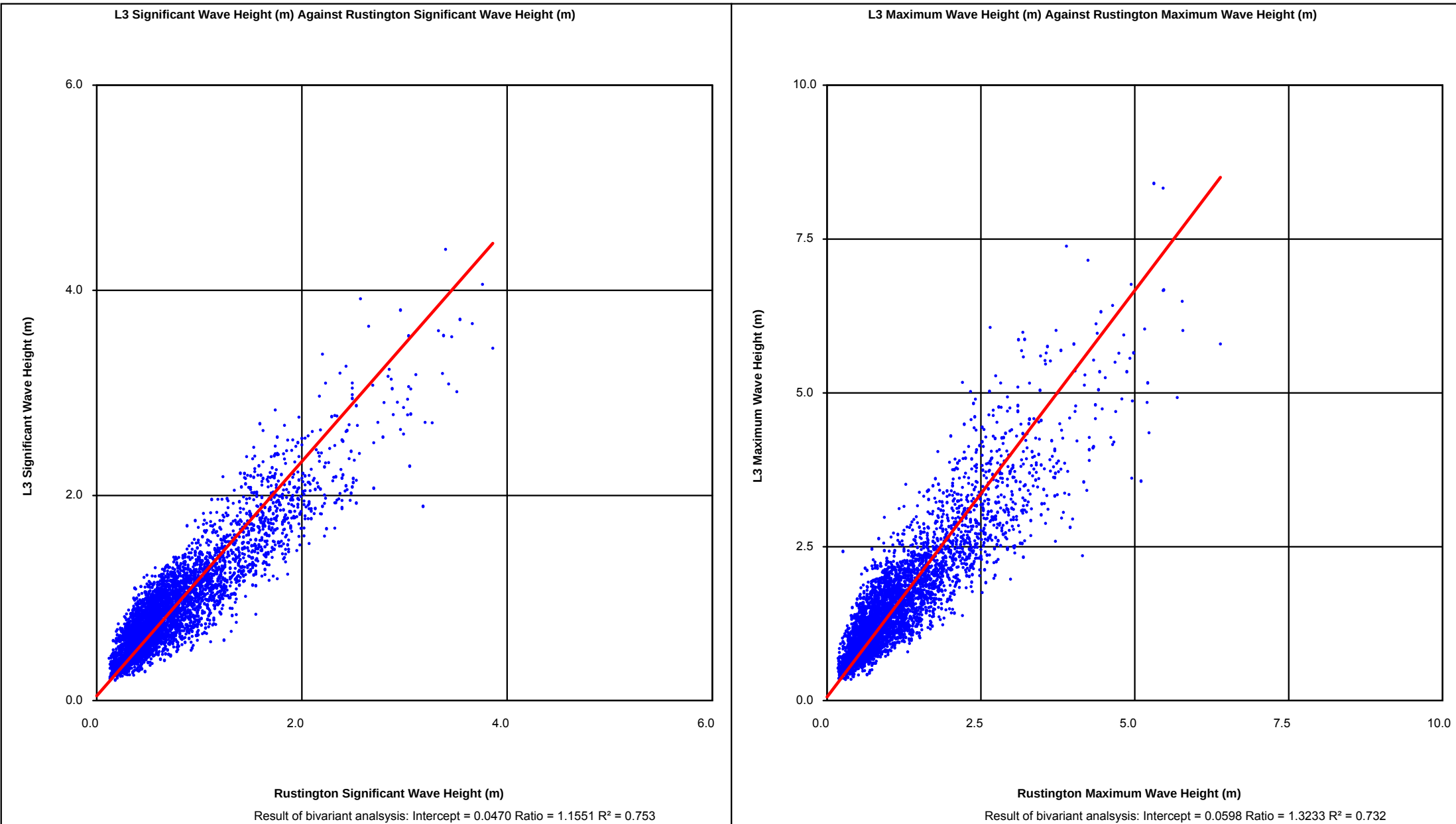
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	Count	%
<1																										0	0.00
<2																										0	0.00
<3	14	652	1078	408	59																					2211	19.06
<4	57	602	1000	1122	825	532	229	147	19	1																4534	39.08
<5	2	270	247	241	245	323	343	391	389	266	136	45	27	1												2926	25.22
<6		118	150	74	83	65	62	79	106	133	169	163	109	99	77	58	18	7	2							1572	13.55
<7		27	77	17	13	12	7	5	2	5	12	11	6	10	16	22	30	22	16	8	5		1		1	325	2.80
<8			13	4	4	6	6											1								34	0.29
<9																										0	0.00
<10																										0	0.00
<11																										0	0.00
																										11602	100.00
Count	73	1669	2565	1866	1229	938	647	622	516	405	317	219	142	110	93	80	48	30	18	8	5	0	1	0	1	11602	
%	0.63	14.39	22.11	16.08	10.59	8.08	5.58	5.36	4.45	3.49	2.73	1.89	1.22	0.95	0.80	0.69	0.41	0.26	0.16	0.07	0.04	0.00	0.01	0.00	0.01	100.00	

Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 1, Deployments 1 - 2
Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194

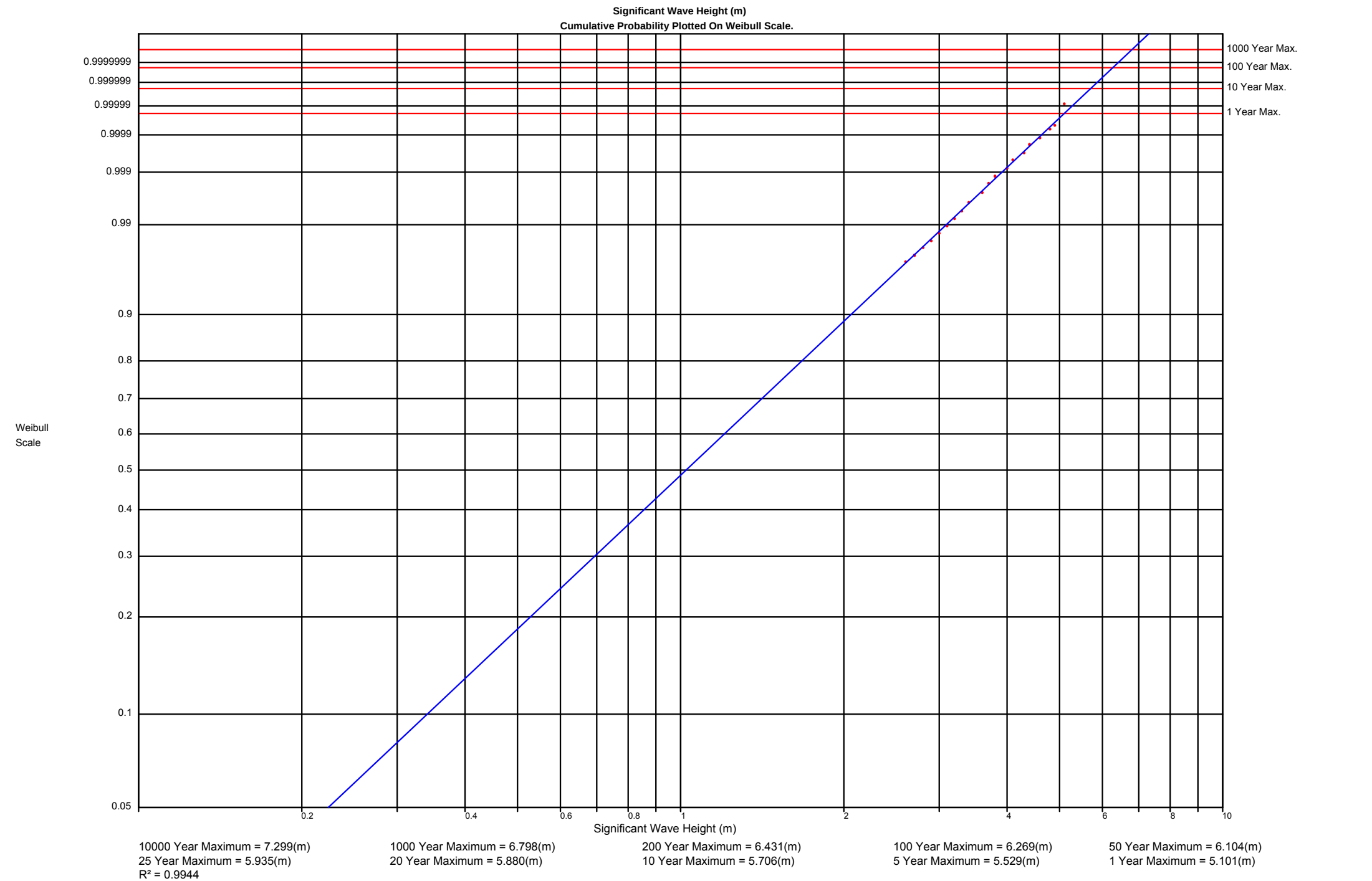






Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

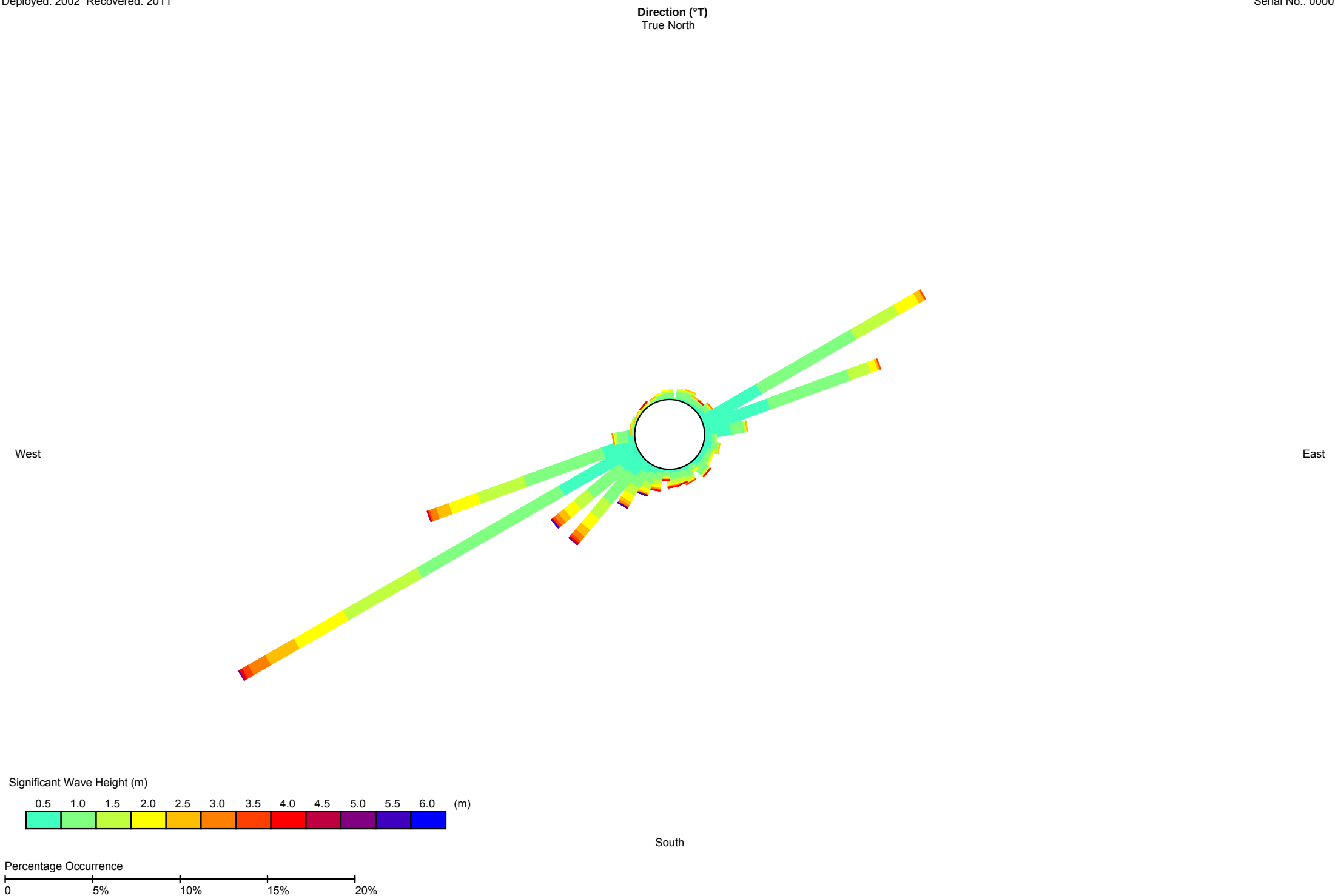
Wave Buoy / WaveNetData
Serial No.: 0000



Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Wave Buoy / WaveNetData
Serial No.: 0000



Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s)																												Count	%			
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6		
<1	486	40	22	2				1																							551	0.453
<2																															0	0.000
<3	1	3325	7988	2889	218																										14421	11.860
<4	39	10374	15542	15757	12179	7246	5974	1771	341	39																					69262	56.963
<5	27	2618	2678	1684	1549	1824	3676	4116	2990	3755	1711	1027	478	84																	28217	23.206
<6	11	258	502	163	118	97	170	186	240	618	780	1023	1207	1171	925	639	434	165	133	22	9	3									8874	7.298
<7	1	2	18	4	3						2	3	1	3	8	12	30	15	51	28	28	35	8	7	2	5	1				267	0.220
<8																															0	0.000
																															121592	100
Count	565	16617	26750	20499	14067	9167	9820	6074	3571	4412	2493	2053	1686	1258	933	651	464	180	184	50	37	38	8	7	2	5	1	0	0	0	121592	
%	0.465	13.666	22.000	16.859	11.569	7.539	8.076	4.995	2.937	3.629	2.050	1.688	1.387	1.035	0.767	0.535	0.382	0.148	0.151	0.041	0.030	0.031	0.007	0.006	0.002	0.004	0.001	0.000	0.000	0.000	100	

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Peak Period (s)

Job No: J/1/01/1743

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

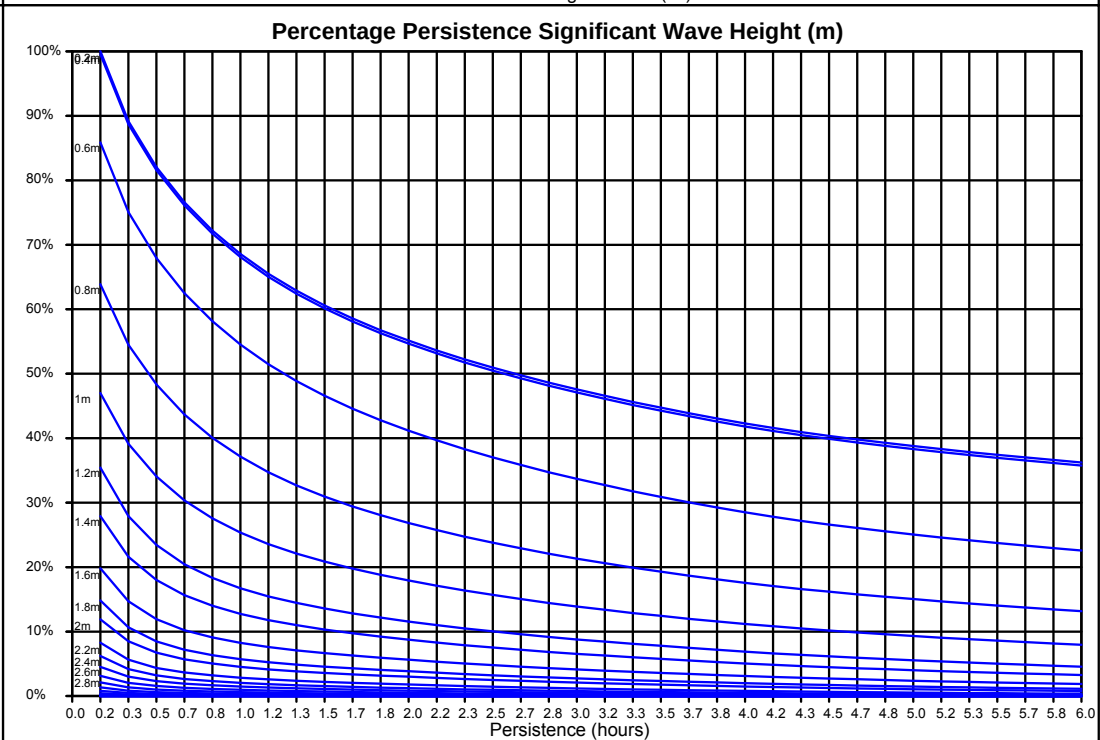
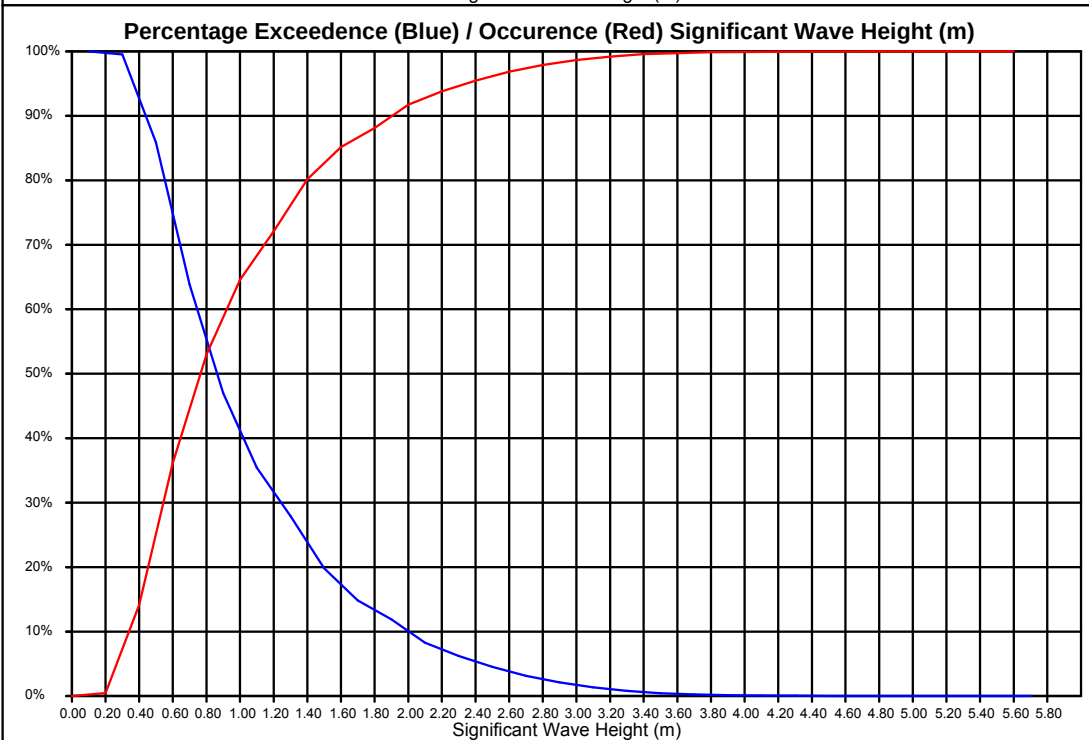
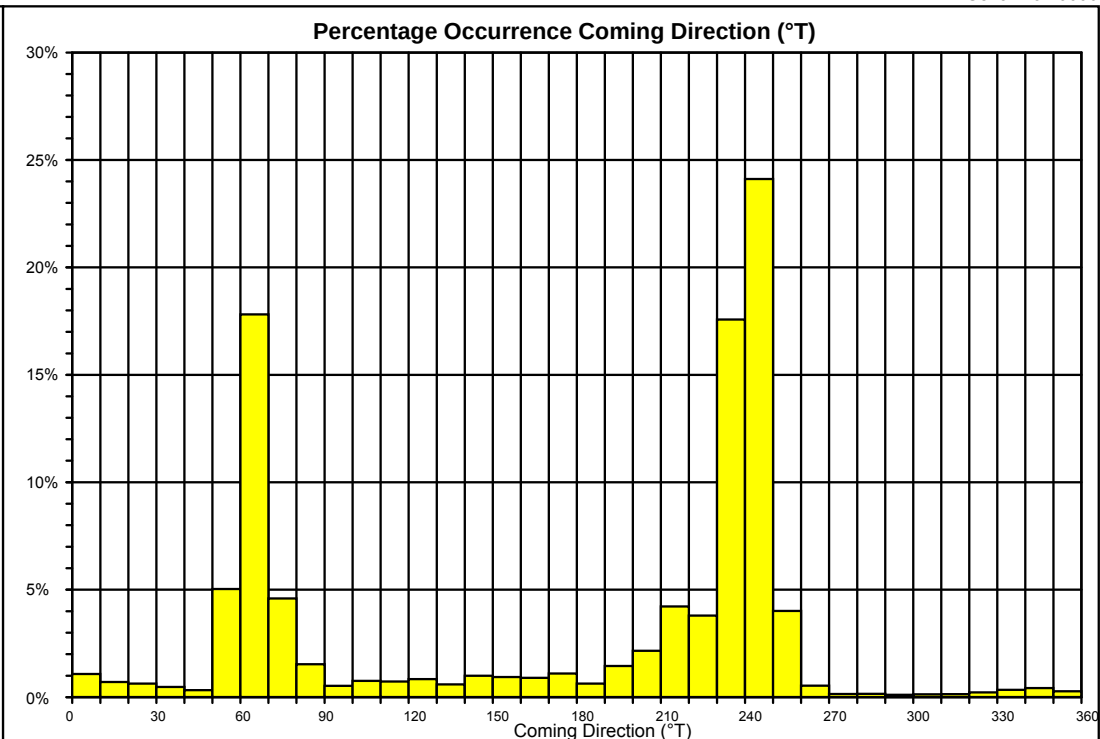
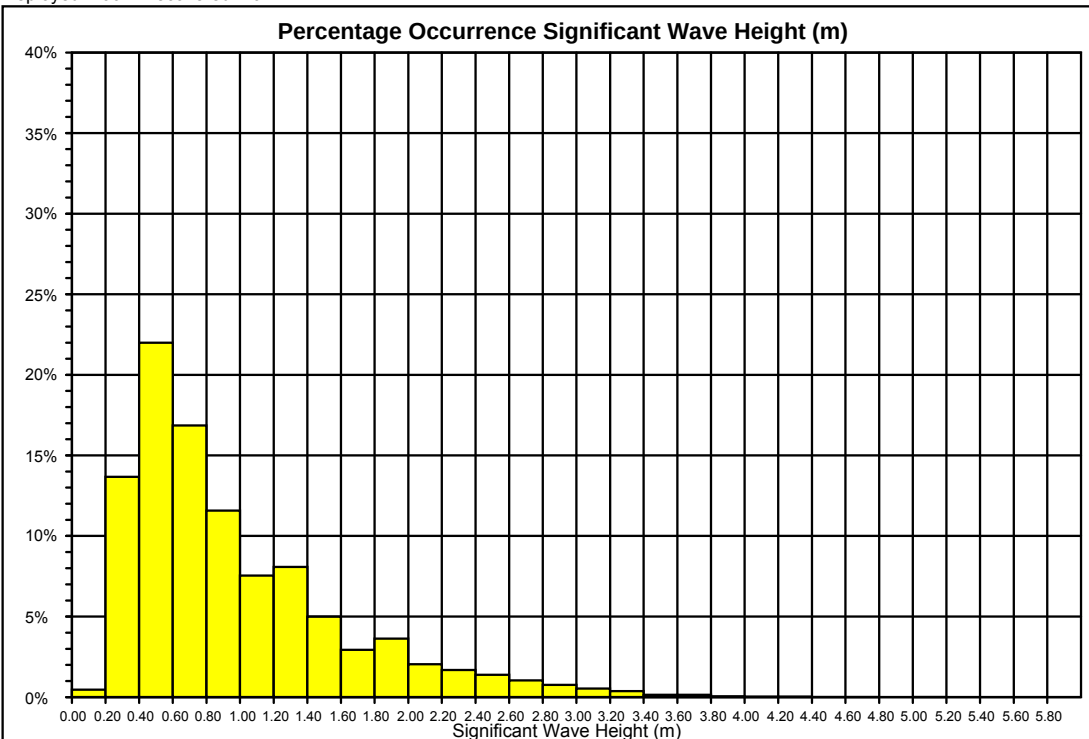
Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T)

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%	
<10	482	57	228	204	146	89	60	19	9	9	2	2	1					1													1309	1.077	
<20		68	270	229	120	80	63	20	6	2		1																			859	0.706	
<30	1	84	259	220	104	39	39	12	9	1	1																				769	0.632	
<40	1	113	204	131	77	29	12	10	2	2	1																				582	0.479	
<50	4	104	122	91	33	14	10	4	2	1	3	4	4			1	1	1													399	0.328	
<60	5	1103	1534	1050	688	445	502	313	174	173	58	47	12	6	3																6113	5.027	
<70	3	3303	5459	4295	2742	1705	1758	915	497	474	238	153	70	25	17	5	1														21660	17.814	
<80	4	1894	2014	886	390	178	113	53	17	23	11	3	1																		5587	4.595	
<90	6	756	663	214	130	45	33	11	6	1																					1865	1.534	
<100		240	213	98	42	17	22	3	3	1	1																				640	0.526	
<110	2	308	324	137	51	38	45	11	2	1																					919	0.756	
<120	2	256	329	133	47	32	62	25		2																					888	0.730	
<130	3	198	377	212	81	65	52	28	3																						1019	0.838	
<140		100	228	154	105	55	31	27	7	3	3	5	3	1			1		1												724	0.595	
<150		158	323	235	179	130	80	64	30	8	1																				1208	0.993	
<160	2	138	232	200	177	120	134	70	32	11	4	2	1		2	7	3														1135	0.933	
<170	1	126	228	206	136	82	107	79	31	38	9	6	8	8	10	12	6	2	1												1096	0.901	
<180		156	246	203	152	107	134	92	56	51	19	19	25	21	17	18	10	5	5	2											1338	1.100	
<190	1	84	119	119	77	51	82	68	33	41	16	7	14	12	13	7	9	6	4												763	0.628	
<200	3	225	319	253	187	144	175	116	74	85	39	29	20	30	25	15	10	4	2	2	1		1								1759	1.447	
<210	1	333	490	365	305	232	237	189	102	120	91	54	41	18	12	14	11	4	3							3	1				2626	2.160	
<220	2	511	859	739	499	373	466	317	208	312	206	151	130	118	77	61	48	24	14	3	7	7		1							5133	4.221	
<230	4	454	800	712	467	335	376	263	189	250	178	119	97	104	83	58	61	21	23	5	9	9	2	2							4621	3.800	
<240	23	2413	4130	3511	2425	1536	1585	1081	780	968	576	543	508	389	290	216	195	63	75	22	12	14	4	4	2	2					21367	17.573	
<250	8	2569	4772	4280	3567	2540	2962	1961	1132	1651	972	852	704	510	366	234	105	47	55	16	8	8	1								29320	24.113	
<260	1	473	1083	945	739	420	459	281	142	159	51	47	41	15	18	2	3		1												4880	4.013	
<270	2	127	249	140	39	37	14	11	12	9	6	2																			648	0.533	
<280		43	87	34	14	2	1			1																					182	0.150	
<290		52	75	41	11	2	5																								186	0.153	
<300	1	26	56	37	8	3	3	1		1	1																				137	0.113	
<310	1	29	51	47	12	5	9			2																					156	0.128	
<320		9	43	35	28	14	11	5	2	5	5	6	6	1		1		2													173	0.142	
<330		20	62	61	48	34	32	6	1	3																					267	0.220	
<340	1	32	90	93	71	59	51	12	3	2	1	1																			416	0.342	
<350	1	36	124	110	109	65	61	5	3																						514	0.423	
<360		19	88	79	61	45	34	2	4	2																					334	0.275	
																																121592	100
Count	565	16617	26750	20499	14067	9167	9820	6074	3571	4412	2493	2053	1686	1258	933	651	464	180	184	50	37	38	8	7	2	5	1	0	0	0	121592		
%	0.465	13.666	22.000	16.859	11.569	7.539	8.076	4.995	2.937	3.629	2.050	1.688	1.387	1.035	0.767	0.535	0.382	0.148	0.151	0.041	0.030	0.031	0.007	0.006	0.002	0.004	0.001	0.000	0.000	0.000	100		
100.0	99.5	85.9	63.9	47.0	35.4	27.9	19.8	14.8	11.9	8.3	6.2	4.5	3.1	2.1	1.3	0.8	0.4	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 1

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10	233		15	19	7	10	3	1			1	1																			290	3.31
<20			30	15	8	15	5																								73	0.83
<30		9	26	19	8	8	7																								77	0.88
<40		5	12	18	3	3	1																								42	0.48
<50		1	4	4	2	2	1	1																							15	0.17
<60		8	44	54	61	31	32	42	27	25	1	2		4	3																334	3.82
<70	1	85	238	243	216	132	167	113	85	63	26	29	25	12	17	5	1														1458	16.66
<80	1	28	52	58	41	19	11	6	1	3	1		1																		222	2.54
<90		10	29	11	21	7		1																							79	0.90
<100		6	10	10	4	1	1																								32	0.37
<110		8	26	15	2	3	5	5																							64	0.73
<120		3	25	9	8	7	18	15																							85	0.97
<130	1	1	29	16	18	18	11	16	3																						113	1.29
<140		5	27	21	20	10	11	10																							104	1.19
<150		8	35	27	38	25	15	7	8																						163	1.86
<160		8	9	17	30	25	22	11	1	1	2																				126	1.44
<170		3	11	6	16	23	29	13	8	10	2	2	4	3	1																131	1.50
<180		1	13	10	10	20	34	24	17	9	4	4	5	4	5	3	2														165	1.89
<190		2	8	9	7	6	18	17	8	7	5	2	3	3	5	2	4	2													108	1.23
<200		2	11	21	12	10	29	24	13	21	7	3	4	6	7	6	7	3	1	1	1										189	2.16
<210		3	24	37	23	24	31	25	10	7	10	8	4	3	2	4	4	2													221	2.53
<220		10	34	56	59	30	47	46	26	30	22	10	17	19	9	3	7		1												426	4.87
<230		11	23	36	33	24	42	36	35	31	9	24	10	17	8	1	4	1													345	3.94
<240	1	42	232	202	144	136	140	129	113	169	98	76	94	60	49	20	18	4	5	5	5	2	1	4	2	2					1753	20.03
<250	1	33	169	179	162	151	141	142	111	210	139	133	90	75	64	32	20	7	6	4	2	5	1								1877	21.45
<260		8	19	23	18	9	5	8	8	6	2	5	4	4	3	1	1														124	1.42
<270		1	18	8																											27	0.31
<280		3	11	2																											16	0.18
<290		4	5	1	2																										12	0.14
<300		2		2	1																										5	0.06
<310			2	2	1																										5	0.06
<320			3	2	1																										6	0.07
<330			3		2																										5	0.06
<340		3	6	2	1	2	1																								15	0.17
<350		2	11	10	8	3	1																								35	0.40
<360			6	2		1		1																							10	0.11
																															8752	100.00
Count	238	315	1220	1166	987	755	828	692	475	592	329	299	261	210	173	77	68	19	13	10	8	7	2	4	2	2	0	0	0	0	8752	
%	2.72	3.60	13.94	13.32	11.28	8.63	9.46	7.91	5.43	6.76	3.76	3.42	2.98	2.40	1.98	0.88	0.78	0.22	0.15	0.11	0.09	0.08	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	100.00	
100.0	97.3	93.7	79.7	66.4	55.1	46.5	37.1	29.1	23.7	17.0	13.2	9.8	6.8	4.4	2.4	1.5	0.8	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 2

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10	200	2	17	17	15	7	5	7	2	3		1																			276	3.15
<20		5	25	22	6	3	2																								63	0.72
<30		6	44	30	9	2																									91	1.04
<40		5	31	13	10	4		1																							64	0.73
<50		1	15	7						1																					24	0.27
<60		53	89	58	50	31	33	29	26	30	15	12	3	1																	430	4.91
<70		191	270	296	190	74	121	81	58	87	54	38	12	8																	1480	16.91
<80		126	98	50	19	9	4	7	4	4																					321	3.67
<90		36	55	11	6	4	1		2																						115	1.31
<100		14	6	6	6	3	1	2	1																						39	0.45
<110		14	13	9	3		5	1	2	1																					48	0.55
<120		16	18	10	4	1	4	6																							59	0.67
<130		11	43	37	6	4	7	3																							111	1.27
<140		6	35	28	18	7	6	4			1	1	2	1																	109	1.25
<150		12	37	34	20	10	19	9	4	4	1																				150	1.71
<160		11	21	26	20	16	27	11	5	1	1	1																			140	1.60
<170		11	12	27	27	9	16	24	7	7	2																				142	1.62
<180		10	20	15	24	11	21	19	9	4		1																			134	1.53
<190		6	6	9	10	7	11	12	9	6																					76	0.87
<200		11	19	27	30	19	22	21	12	4	1																				166	1.90
<210		20	39	31	31	31	42	24	15	7	2		1																		243	2.78
<220		27	74	63	54	42	76	37	17	35	8	7	3	1	1	2		1													448	5.12
<230		27	64	56	53	34	50	31	21	22	11	6	3	4	2		2														386	4.41
<240		120	245	334	237	143	160	102	80	87	41	44	53	46	33	21	13	8	1	1											1769	20.21
<250		107	152	258	228	85	165	100	51	106	70	58	47	48	37	24	8	4	4												1552	17.73
<260		11	16	25	14	5	4	3	1	7	4		1	5																	96	1.10
<270		4	8	8						1																					21	0.24
<280			3	1	2																										6	0.07
<290		1	1	1																											3	0.03
<300			1		1					1	1																				4	0.05
<310		2	1	4	1					2																					10	0.11
<320			1	1	10	1	3	4	1	2	3	4	4	1																	35	0.40
<330			2	5	1		3	4		1																					16	0.18
<340		1	5	19	9	1	5	3		1																					44	0.50
<350		2	9	19	9	3	3	1	1																						47	0.54
<360		3	9	9	4	3	2		2	2																					34	0.39
Count	200	872	1504	1566	1127	569	818	546	330	426	215	173	129	115	73	47	23	13	5	1	0	0	0	0	0	0	0	0	0	0	8752	100.00
%	2.29	9.96	17.18	17.89	12.88	6.50	9.35	6.24	3.77	4.87	2.46	1.98	1.47	1.31	0.83	0.54	0.26	0.15	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
100.0	97.7	87.8	70.6	52.7	39.8	33.3	24.0	17.7	13.9	9.1	6.6	4.6	3.2	1.8	1.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 3

		<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%	
<10	1	8	13	30	10	15	12	5																								94	0.92	
<20		3	5	10	8	5	7	7	4	1			1																			51	0.50	
<30		4	12	8	9	6	2	3	4	1	1																					50	0.49	
<40		4	9	6	2	3	5	1	2	1	1																					34	0.33	
<50		4	7	2	1	6	3	2	1			3	4	4			1	1	1													40	0.39	
<60		54	91	105	40	28	41	52	25	25	16	12	2	1																		492	4.81	
<70		215	387	326	211	140	280	172	91	100	29	9	1																			1961	19.15	
<80		99	143	89	35	34	23	6	2	2	1																					434	4.24	
<90		39	35	20	13	8	4																									119	1.16	
<100		12	9	1	3	2																										27	0.26	
<110		16	14	11	5																											46	0.45	
<120		12	11	6	3																											32	0.31	
<130		9	24	14	2	4	3																									56	0.55	
<140		4	11	19	16	4	6	7				1	3	1				1		1												74	0.72	
<150		3	21	13	16	12	7	10	2	1																						85	0.83	
<160		5	10	19	18	10	10	13	3	2	1																					91	0.89	
<170		8	28	17	9	4	6	6		1																						79	0.77	
<180		11	23	19	8	4	10	4		2										1												82	0.80	
<190		9	11	13	2	1	5	1	1	3	1																					47	0.46	
<200		17	39	25	10	5	11	7	1	3	2	1	1	4	3	1				1	1				1						133	1.30		
<210	1	27	50	31	25	18	6	2	3	1	3	1	1	2	1	2	1	1	2								3	1				182	1.78	
<220		33	115	63	42	47	48	20	12	18	14	13	9	6	6	13	9	1			1	1			1							472	4.61	
<230	1	31	73	69	46	50	26	12	7	11	20	4	6	5	6		4	1	5	1	5	1										384	3.75	
<240	11	119	413	393	253	188	150	101	103	92	48	38	39	27	22	25	25	9	8	4			3									2071	20.23	
<250	4	140	482	341	292	196	278	168	95	150	113	99	91	65	43	29	11	8	12	6	6	2										2631	25.70	
<260		21	74	37	29	24	25	5	7	6		2	3		3					1												237	2.31	
<270		2	15	4	4																											25	0.24	
<280		1	8		2																											11	0.11	
<290		5	4	1	1																											11	0.11	
<300		2	3	5	2	1																										13	0.13	
<310		2	2	4																												8	0.08	
<320		1	5	8	3	1	5	1	1			2	2	1			1		2													33	0.32	
<330		3	8	7	6		1																									25	0.24	
<340	1		8	6	6	5	3	5				1	1																			36	0.35	
<350		1	8	6	7	5	14		1																							42	0.41	
<360			5	3	2	6	13		1																							30	0.29	
																																	10238	100.00
Count	19	924	2176	1731	1141	832	1004	610	366	420	257	190	159	110	84	72	52	23	31	13	12	6	1	1	0	3	1	0	0	0	0	10238		
%	0.19	9.03	21.25	16.91	11.14	8.13	9.81	5.96	3.57	4.10	2.51	1.86	1.55	1.07	0.82	0.70	0.51	0.22	0.30	0.13	0.12	0.06	0.01	0.01	0.00	0.03	0.01	0.00	0.00	0.00	100.00			
100.0	99.8	90.8	69.5	52.6	41.5	33.4	23.5	17.6	14.0	9.9	7.4	5.5	4.0	2.9	2.1	1.4	0.9	0.7	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 4

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10		5	29	21	7	8	9	3		1																					83	0.84
<20		10	28	15	3	7	9																								72	0.73
<30		13	17	6	2		1																								39	0.39
<40		18	18	10	2																										48	0.49
<50		15	12	10	2	1	1																								41	0.41
<60		136	136	87	83	49	91	24	13	8	5																				632	6.40
<70		472	636	420	305	202	202	46	16	7	11																				2317	23.45
<80	1	315	300	95	29	3	2	2																							747	7.56
<90		120	91	6	9	1	3	2																							232	2.35
<100		40	13	4	3																										60	0.61
<110	1	41	43	8	1		1																								95	0.96
<120		42	43	10																											95	0.96
<130		20	37	11	4																										72	0.73
<140		8	21	8	3																										40	0.40
<150		20	32	7	6																										65	0.66
<160	1	18	12	8	7	4																									50	0.51
<170		8	23	17	9	2	4		1		1	1																			66	0.67
<180		23	20	23	13		6	4		1		3	1	1																	95	0.96
<190		8	9	10	2	2	3	2								1															37	0.37
<200		34	33	21	6	6	5	2	4		2	1	2	3	6	1															126	1.28
<210		36	55	24	8	10	21	22	9	6	1	4	1	1	1																199	2.01
<220	1	55	67	50	24	30	37	22	9	19	5	8	3	4	1																335	3.39
<230		67	100	55	21	14	22	11	5	5	2	3	2	3																	310	3.14
<240		371	460	303	143	67	79	53	18	36	14	11	11	2																	1568	15.87
<250		360	560	344	206	96	136	71	51	74	39	27	16	5	2																1987	20.11
<260		50	83	51	39	18	20	17	5	3	1	1	2																		290	2.93
<270		16	16	4	4		2																								42	0.43
<280		8	2	2																											12	0.12
<290		7	7	1			1																								16	0.16
<300		4	3	5																											12	0.12
<310		5	7	4																											16	0.16
<320		1	3	2	1																										7	0.07
<330		6	2	5																											13	0.13
<340		5	6	5	1	1																									18	0.18
<350		3	9	11		6																									29	0.29
<360		1	1	5		8																									15	0.15
Count	4	2361	2934	1668	943	535	655	281	131	160	81	59	38	19	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9881	100.00
%	0.04	23.89	29.69	16.88	9.54	5.41	6.63	2.84	1.33	1.62	0.82	0.60	0.38	0.19	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	100.0	76.1	46.4	29.5	20.0	14.6	7.9	5.1	3.8	2.1	1.3	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 5

		<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%	
<10			12	19	4	19	4	5		1		1							1													66	0.63	
<20			11	9	5	6	1																									32	0.31	
<30			11	9	7	2		1		1																						31	0.30	
<40			19	16	4	1	1		1																							42	0.40	
<50			20	19	2			2																								43	0.41	
<60			181	221	159	86	77	98	31	18	27	6	13	3																		920	8.82	
<70	1		459	588	489	314	244	204	64	33	36	26	23	10	3																	2494	23.91	
<80			234	182	69	26	13	4	5	1	1	1																				536	5.14	
<90			97	53	43	15			2	1																						211	2.02	
<100			32	18	9	1																										60	0.58	
<110			55	25	5	3																										88	0.84	
<120	1		27	22	7	1																										58	0.56	
<130			36	24	7																											67	0.64	
<140			12	11	5	2							1																			31	0.30	
<150			18	7	10	6	3																									44	0.42	
<160			17	12	9	6	4	3	1																							52	0.50	
<170			18	11	5	3	9	5	4	1																						56	0.54	
<180			22	12	5	14	5	1	1		1	1																				62	0.59	
<190			8	9	4	2	1	2																								26	0.25	
<200	1		26	15	6	12	4	4	1	1			1																			71	0.68	
<210			38	27	17	12	14	7	8	8	12	4	2	3																		152	1.46	
<220			73	54	44	33	27	23	22	15	23	12	6	3	5	1	1															342	3.28	
<230			49	58	47	32	25	25	16	20	13	4	5	5	2	1																302	2.89	
<240	1		280	382	284	250	146	84	54	37	45	35	24	11	5	4	9	5	3	2												1661	15.92	
<250	1		312	457	351	250	226	224	132	72	133	68	41	35	24	11	19	6		1												2363	22.65	
<260			70	90	80	50	33	34	10	10	8	2	2	2	1																	392	3.76	
<270	1		19	17	15	3	2	2	1																							60	0.58	
<280			5	7	2	3																										17	0.16	
<290			13	11	3																											27	0.26	
<300			7	5	3																											15	0.14	
<310			7	1	2																											10	0.10	
<320			3	2	1	2					2			1																		11	0.11	
<330			2	5	3		2	1																								13	0.12	
<340			4	10	6	5	2	4	1																							32	0.31	
<350			2	3	6	10	1	5	1																							28	0.27	
<360			2	2	3	8	1	1																								17	0.16	
																																	10432	100.00
Count	6		2201	2413	1721	1177	845	739	355	219	301	160	118	73	40	17	29	11	4	3	0	0	0	0	0	0	0	0	0	0	0	10432		
%	0.06		21.10	23.13	16.50	11.28	8.10	7.08	3.40	2.10	2.89	1.53	1.13	0.70	0.38	0.16	0.28	0.11	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00			
100.0	99.9		78.8	55.7	39.2	27.9	19.8	12.8	9.4	7.3	4.4	2.8	1.7	1.0	0.6	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 6

		<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%	
<10			3	7	7	2																											19	0.18
<20			6	7	10	8																											31	0.29
<30			12	12	2	1																											27	0.25
<40	1		19	14	5	1																											40	0.37
<50			27	12	3																												42	0.39
<60			267	217	110	53	22	24	21		1																						715	6.67
<70			640	702	544	322	123	102	60	22																							2515	23.47
<80			372	248	52	14	4	1																									691	6.45
<90	2		148	78	5	1																											234	2.18
<100			48	15	1																												64	0.60
<110			67	19	3																												89	0.83
<120			46	22	3	1																											72	0.67
<130			28	41	4			1																									74	0.69
<140			16	17	1		2																										36	0.34
<150			26	29	3	1																											59	0.55
<160	1		21	23	3	7																											55	0.51
<170			25	17	1	3																											46	0.43
<180			30	21	9	2	2	1																									65	0.61
<190			18	7	3	2	1																										31	0.29
<200			37	38	6	1	1	5																									88	0.82
<210			56	51	9	9	18	6	1	1	1	2	1																			155	1.45	
<220	1		102	97	51	17	17	7		1				2		2	1		1													300	2.80	
<230			75	72	56	13	10	6	5	1	1	2		2	1		2	1		4	1	2	1									255	2.38	
<240	5		448	533	236	122	68	75	21	7	6	11	10	14	11	2	2	2	1	9	4		1									1588	14.82	
<250			392	638	445	329	226	205	142	59	42	10	20	13	4	2	3	1					1									2532	23.63	
<260			65	161	112	160	78	59	29	15	16	3	2																			700	6.53	
<270			19	32	20	12	6	2																								91	0.85	
<280			7	5	6	2	1																									21	0.20	
<290			2	4	3	1																										10	0.09	
<300			2	4																												6	0.06	
<310			3	5	2																											10	0.09	
<320			1	3	1																											5	0.05	
<330				6																												6	0.06	
<340			2	7	10																											19	0.18	
<350			2	7	3	2																										14	0.13	
<360			3	5	2																											10	0.09	
																																	10715	100.00
Count	10		3035	3176	1731	1086	579	494	279	106	67	28	34	31	16	6	8	4	2	13	5	2	3	0	0	0	0	0	0	0	0	10715		
%	0.09		28.32	29.64	16.15	10.14	5.40	4.61	2.60	0.99	0.63	0.26	0.32	0.29	0.15	0.06	0.07	0.04	0.02	0.12	0.05	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00			
100.0	99.9		71.6	42.0	25.8	15.7	10.3	5.7	3.1	2.1	1.4	1.2	0.9	0.6	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 7

		<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10	1	3	3	3		1																										11	0.10
<20		5	8	4	1																											18	0.16
<30		8	7	10																												25	0.23
<40		13	9	1																												23	0.21
<50	4	14	13	6																												37	0.33
<60	3	143	158	55	20	3	4	2	6			1																				395	3.56
<70		319	533	202	72	28	23	24	9	1	2	1																				1214	10.94
<80	1	177	188	40	14	3	3	3	1	1	1																					432	3.89
<90	1	94	47	10	1			1	2																							156	1.41
<100		17	19	4	1																											41	0.37
<110	1	32	25	11	1																											70	0.63
<120		34	33	10	2																											79	0.71
<130	1	18	21	11	16	1																										68	0.61
<140		9	10	9	4																											32	0.29
<150		13	24	11	8	1																										57	0.51
<160		16	24	12	4	2	1																									59	0.53
<170		20	17	8	5	3																										53	0.48
<180		22	30	6	4	6	5	1																								74	0.67
<190		8	13	4	6	1	3	1																								36	0.32
<200	1	25	34	15	7	2	4	1	2																							91	0.82
<210		49	74	45	20	6	9	7	4	2	1	2																				219	1.97
<220		70	95	77	44	17	38	15	8	11	1	3	3	2	1																	385	3.47
<230	1	65	109	77	57	25	37	19	5	11	5	2	3	1																		417	3.76
<240	2	332	501	383	294	174	125	61	30	48	22	16	14	13	5	3	2															2025	18.25
<250	1	420	875	683	538	362	361	169	107	165	87	42	33	22	11	4	1															3881	34.98
<260		96	281	249	147	80	89	30	15	32	7	2			2																	1030	9.28
<270		17	34	10	4	1																										66	0.59
<280		4	13	1	1																											19	0.17
<290		5	5	1	1																											12	0.11
<300		4	6	3																												13	0.12
<310		5	1	1	1																											8	0.07
<320		1	2	2	2																											7	0.06
<330		4	2	2	5																											13	0.12
<340		5	5		2																											12	0.11
<350	1	2	5		5																											13	0.12
<360		1	3																													4	0.04
																																11095	100.00
Count	18	2070	3227	1966	1287	716	702	334	189	271	127	68	53	38	19	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11095	
%	0.16	18.66	29.09	17.72	11.60	6.45	6.33	3.01	1.70	2.44	1.14	0.61	0.48	0.34	0.17	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
100.0	99.8	81.2	52.1	34.4	22.8	16.3	10.0	7.0	5.3	2.8	1.7	1.1	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 8

		<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10			2	15	22	9	7	1																								56	0.51
<20			2	10	12	16	7	4	6	2																						59	0.54
<30	1		9	15	15	12	1	1	4																							58	0.53
<40			9	15	9	4	2		1																							40	0.37
<50			11	9	4	2	1																									27	0.25
<60	2		109	193	116	44	21	18	10	2																						515	4.73
<70			300	532	342	173	93	37	13																							1490	13.68
<80	1		200	223	92	38	11	3																								568	5.21
<90	2		69	72	19	4																										166	1.52
<100			35	30	10	5																										80	0.73
<110			26	31	9	1	1																									68	0.62
<120			22	37	7																											66	0.61
<130	1		20	31	15	1																										68	0.62
<140			10	25	4	1	1																									41	0.38
<150			13	27	12	5	1		1	1																						60	0.55
<160			17	21	15	3	2	2		2																						62	0.57
<170			12	27	17	8	3	1																								70	0.64
<180			18	24	21	7	5					1																				76	0.70
<190	1		13	13	7	4		1	1																							40	0.37
<200	1		27	30	14	13	10	7	1	2		1			1																	107	0.98
<210			53	68	16	20	13	8	11	8	5	1					1	1														205	1.88
<220			66	112	48	35	33	13	16	9	7	4	2	4	3	1																353	3.24
<230	2		55	105	73	35	27	24	12	9	11	10	4	7	1		1															376	3.45
<240	3		248	466	436	231	171	131	59	32	34	28	18	11	13	3	1	3		2												1890	17.35
<250	1		288	538	660	529	359	384	190	84	95	57	29	31	24	7	2	4	4	3												3289	30.19
<260	1		45	150	181	123	81	90	55	25	11	1	3	3		2																771	7.08
<270	1		19	35	13	1	6																									75	0.69
<280			5	12	3	2																										22	0.20
<290			4	13	4																											21	0.19
<300	1		2	7	2		1																									13	0.12
<310	1		1	9	6		2	1																								20	0.18
<320				2	3	3	3																									11	0.10
<330				6	7	11	9	5																								38	0.35
<340			4	9	3	13	8	4																								41	0.38
<350			1	9	3	8	4	2																								27	0.25
<360			3	5	10	3	2	1																								24	0.22
																																10893	100.00
Count	19		1718	2926	2230	1364	885	738	380	176	166	102	56	56	42	13	5	8	4	5	0	0	0	0	0	0	0	0	0	0	0	10893	
%	0.17		15.77	26.86	20.47	12.52	8.12	6.77	3.49	1.62	1.52	0.94	0.51	0.51	0.39	0.12	0.05	0.07	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
100.0	99.8		84.1	57.2	36.7	24.2	16.1	9.3	5.8	4.2	2.7	1.8	1.2	0.7	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 9

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10		11	31	13	16	6	11	1																							89	0.95
<20		14	37	32	5	13	21	1																							123	1.32
<30		5	17	16	2	4	15	2																							61	0.65
<40		3	5	11	3	6	2	1																							31	0.33
<50		7	6	7	3			1																							24	0.26
<60		88	109	60	40	31	19	7	3	3	2	1																			363	3.89
<70		330	579	441	232	192	208	74	26	9	8	8																			2107	22.57
<80		168	213	106	25	13	14	1	1	1																					542	5.80
<90		84	75	19	3	3																									184	1.97
<100		20	30	15	8	3	5																								81	0.87
<110		29	42	13	11	3	9																								107	1.15
<120	1	29	59	22	4	3	10																								128	1.37
<130		29	54	17	2	5	3	1																							111	1.19
<140		10	23	7	6	1		2																							49	0.52
<150		18	20	9	4																										51	0.55
<160		14	19	11	2	5																									51	0.55
<170	1	7	24	9	4	2	1	2																							50	0.54
<180		9	24	11	7	2		5	2	1																					61	0.65
<190		7	11	6	1	1	1	4	1																						32	0.34
<200		18	27	5	4	6	1	3	2	1					1																68	0.73
<210		23	31	15	12	4	2	8	3		1	2	2	1																	104	1.11
<220		40	84	61	39	8	6	11	3	1	3	7	2	4	1																270	2.89
<230		35	75	59	30	18	11	11	8	4	3	5	2	1	6	2															270	2.89
<240		260	275	193	122	47	63	66	38	41	21	32	13	15	18	6	2														1212	12.98
<250		274	293	289	300	181	265	201	86	130	94	70	53	27	18	15	6	1													2303	24.67
<260		76	86	88	75	39	53	35	21	27	16	15	12	1			1														545	5.84
<270		15	14	6	6	17	5	7	5	5	6	2																			88	0.94
<280		4	2				1			1																					8	0.09
<290		4	4	1	2		1																								12	0.13
<300		1	6	2	1	1	1																								12	0.13
<310		3	4	2	2	1	2																								14	0.15
<320		1	6	1	1	1	2																								12	0.13
<330		2	6	2	7	2	2																								21	0.22
<340		7	12	4	7	11	2																								43	0.46
<350		10	31	9	14	5	3																								72	0.77
<360		4	19	4	7	2	1	1																							38	0.41
																															9337	100.00
Count	2	1659	2353	1566	1007	636	740	445	199	224	154	142	84	50	43	23	9	1	0	0	0	0	0	0	0	0	0	0	0	0	9337	
%	0.02	17.77	25.20	16.77	10.79	6.81	7.93	4.77	2.13	2.40	1.65	1.52	0.90	0.54	0.46	0.25	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
100.0	100.0	82.2	57.0	40.2	29.5	22.6	14.7	9.9	7.8	5.4	3.8	2.2	1.3	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 10

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10		3	9	11	24	8	3																								58	0.55
<20		2	17	17	16	5	2																								59	0.56
<30		3	16	23	8	3	1																								54	0.51
<40		10	20	12	13	1																									56	0.53
<50		3	2	10	6																										21	0.20
<60		19	101	64	49	53	69	37	21	5	2	5	1																		426	4.01
<70		120	394	372	293	167	180	131	58	32	18	7	8	2																	1782	16.78
<80		86	153	88	72	21	23	12	3	1	2																				461	4.34
<90		22	62	27	30	13	19	3		1																					177	1.67
<100		4	20	7	5	6	10		2	1	1																				56	0.53
<110		5	37	21	13	22	12	3																							113	1.06
<120		10	31	28	16	13	8	4		2																					112	1.05
<130		10	29	51	19	21	9	5																							144	1.36
<140		9	16	26	22	17	2	1	7	3	1																				104	0.98
<150		4	31	55	32	21	14	28	10	3																					198	1.86
<160		3	33	45	33	19	30	18	15	6																					202	1.90
<170		5	25	56	29	13	26	19	6	11	2	2																			194	1.83
<180		2	27	34	31	22	27	11	8	10	7	4	3	1																	187	1.76
<190		3	13	21	19	8	20	8		7	3	1	1	1	2	1															108	1.02
<200		12	25	42	35	39	37	23	11	14	8	5	1	1		1															254	2.39
<210		13	30	51	53	36	33	32	17	21	11	3	5	1	2																308	2.90
<220		19	56	75	56	56	72	35	40	48	31	16	7	1	7	3	1		1												524	4.94
<230		19	60	75	69	40	40	39	33	52	31	23	8	13	6	11	15	3	1												538	5.07
<240		87	280	295	239	144	188	133	103	103	55	62	59	35	25	8	11	4	4												1835	17.28
<250		113	277	294	274	218	277	180	123	111	47	58	59	49	31	18	4	2	1												2136	20.12
<260		14	52	37	24	16	34	37	15	27	3	2		2	4																267	2.51
<270		4	19	10		2	1	1	7	3																					47	0.44
<280		4	5	4		1																									14	0.13
<290		3	4	7	1																										15	0.14
<300		1	5	2																											8	0.08
<310		1	8	3																											12	0.11
<320			10	6																											16	0.15
<330		1	10	9					2																						22	0.21
<340			8	17	2	3	8																								38	0.36
<350		3	9	9	11	3	7																								42	0.40
<360		1	3	7	10	5	2	1																							29	0.27
																															10617	100.00
Count	0	618	1897	1911	1504	996	1154	763	479	461	222	188	152	106	77	42	31	9	7	0	0	0	0	0	0	0	0	0	0	0	10617	
%	0.00	5.82	17.87	18.00	14.17	9.38	10.87	7.19	4.51	4.34	2.09	1.77	1.43	1.00	0.73	0.40	0.29	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
100.0	100.0	94.2	76.3	58.3	44.1	34.8	23.9	16.7	12.2	7.9	5.8	4.0	2.6	1.6	0.8	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
 Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
 Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 11

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10			27	21	21	19	6	1	1	1																					97	0.90
<20		5	39	46	14	13	7	5																							129	1.20
<30		2	34	40	24	11	7																								118	1.09
<40		3	19	30	19	3		1		1																					76	0.70
<50		1	9	17	4	2	2																								35	0.32
<60		30	95	100	85	46	28	22	12	10	2	1	2																		433	4.01
<70		110	293	360	198	155	90	51	29	10	5	5	5																		1311	12.15
<80		40	90	65	32	22	8	8	2	1																					268	2.48
<90		17	23	20	10	3	3	1																							77	0.71
<100		8	17	17	1	1	1																								45	0.42
<110		8	10	10	1	1	4	1																							35	0.32
<120		3	6	6	2	7	5																								29	0.27
<130		4	7	13	3	8	11	2																							48	0.44
<140		3	11	9	7	9	5	2																							46	0.43
<150		9	24	24	14	35	22	9	5																						142	1.32
<160		4	26	14	27	18	26	9	4	1		1	1			1	2														134	1.24
<170		5	18	22	17	12	12	6	8	7		1	3	1	3	7	1	1	1												125	1.16
<180		5	16	39	26	22	13	17	19	22	7	6	11	5	2	5	2	2		2											221	2.05
<190		1	12	18	18	9	12	12	14	15	6	3	9	5	1	1	2														138	1.28
<200		6	29	37	34	29	32	16	24	33	13	16	8	6	2	1															286	2.65
<210		5	20	61	65	31	34	30	18	36	24	13	12	7	2	4	2														364	3.37
<220		6	39	80	49	35	55	52	46	75	47	43	54	41	35	21	13	9	6	2	4	2									714	6.62
<230		9	31	52	41	40	57	45	25	53	32	24	32	35	38	17	17	3	2	2		5	1	2						563	5.22	
<240		37	174	226	229	157	243	215	130	171	96	103	105	96	75	79	62	22	24	5	1	4	1							2255	20.89	
<250		56	152	182	198	233	276	280	158	243	142	139	129	81	68	62	21	13	18	5											2456	22.76
<260		12	33	33	30	19	31	40	15	9	10	6	7	1	2																248	2.30
<270		9	26	20	1	2	1																								59	0.55
<280		1	6	3																											10	0.09
<290		1	8	7	1	1																									18	0.17
<300			6	5	1		1																								13	0.12
<310			9	4	1	2																									16	0.15
<320		1	3	1		5	1																								11	0.10
<330			7	5	6	17	11																								46	0.43
<340		1	10	9	16	15	9																								60	0.56
<350		7	15	20	25	26	13																								106	0.98
<360			11	15	15	12	8																								61	0.57
																															10793	100.00
Count	0	409	1355	1631	1235	1020	1034	825	510	688	384	361	378	278	228	198	122	50	51	16	5	11	2	2	0	0	0	0	0	0	10793	
%	0.00	3.79	12.55	15.11	11.44	9.45	9.58	7.64	4.73	6.37	3.56	3.34	3.50	2.58	2.11	1.83	1.13	0.46	0.47	0.15	0.05	0.10	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	100.0	96.2	83.7	68.6	57.1	47.7	38.1	30.4	25.7	19.3	15.8	12.4	8.9	6.4	4.3	2.4	1.3	0.8	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m

Wave Buoy / WaveNetData

Deployed: 2002 Recovered: 2011

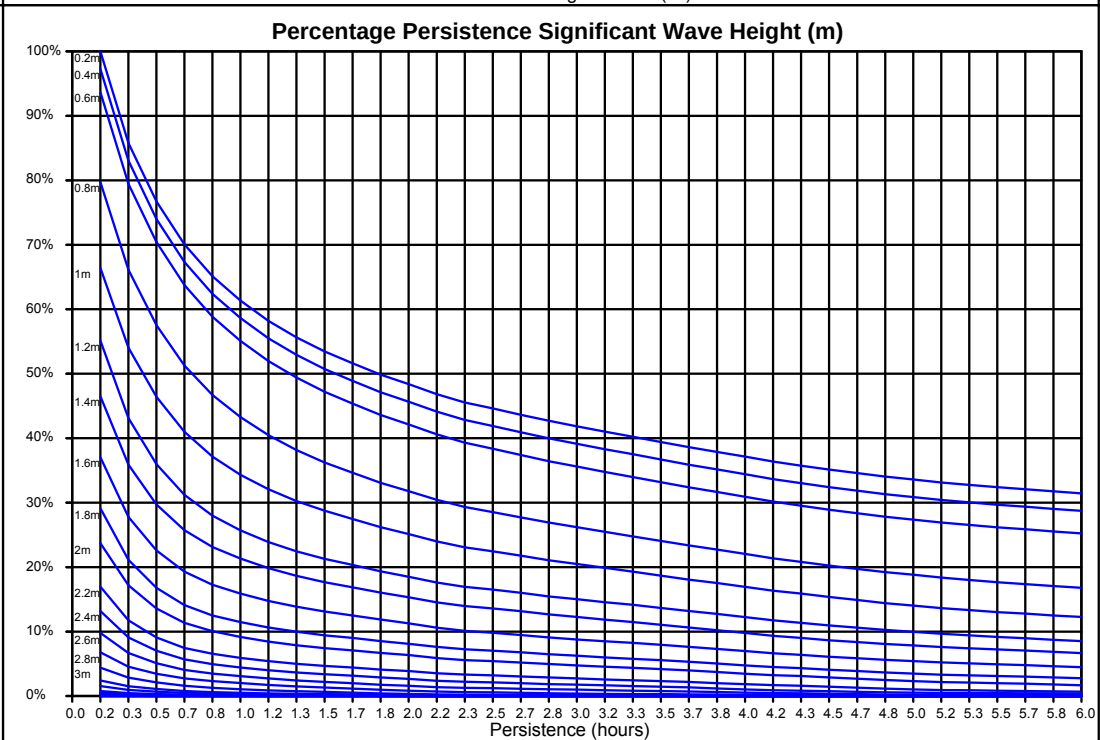
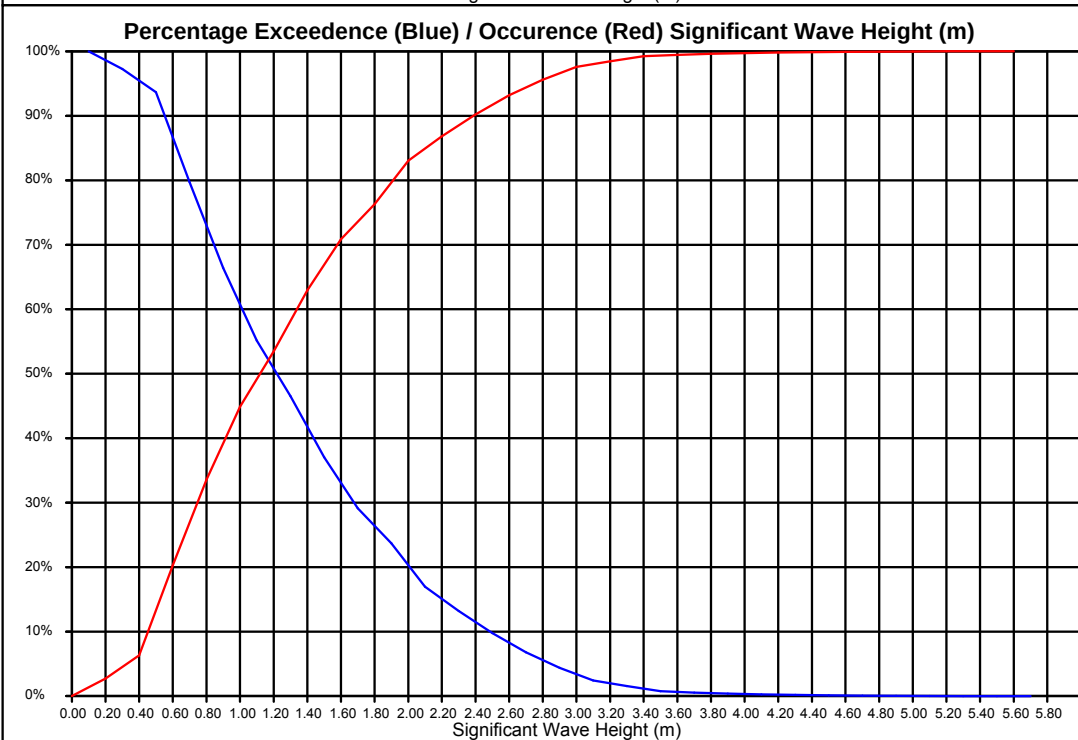
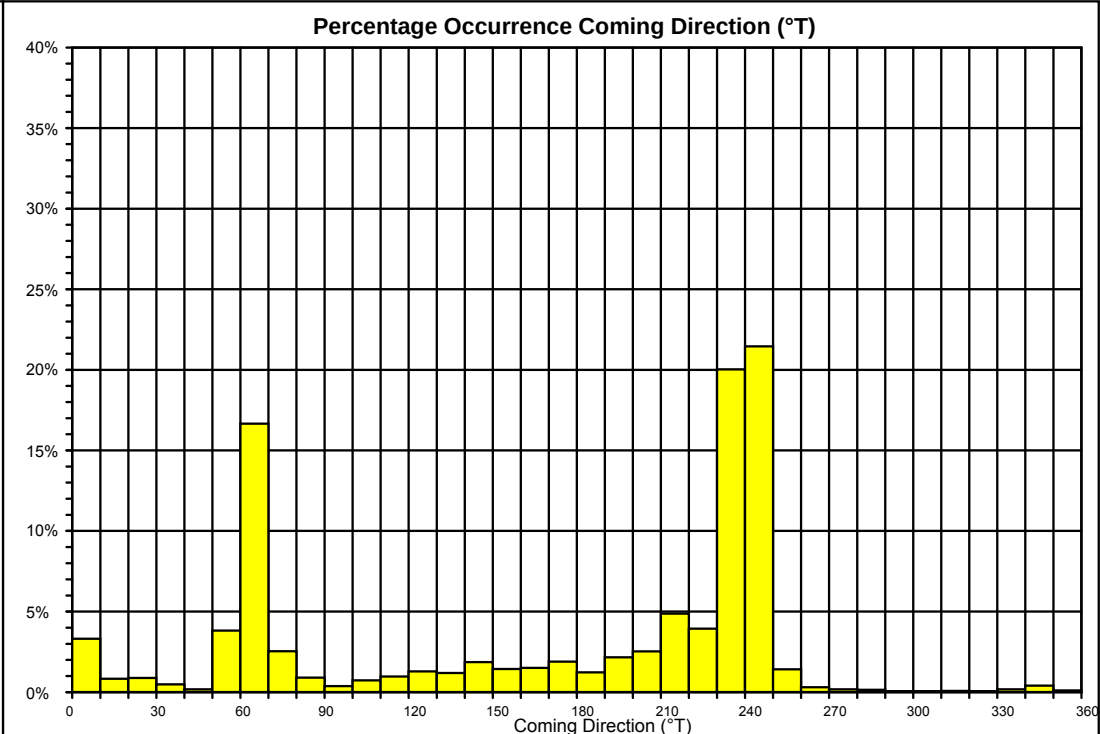
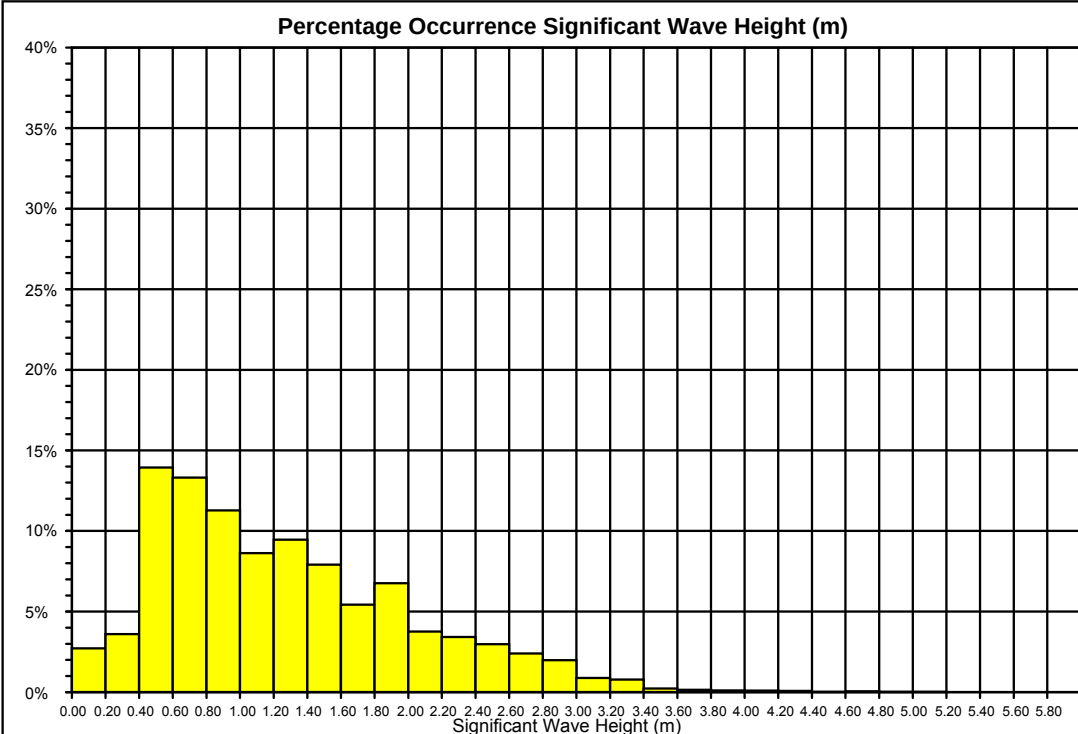
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Coming Direction (°T) for Month 12

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<10	47	8	43	36	16	4	5	1	5	4			1																		170	1.69
<20		5	55	41	29	11	6	1		1																					149	1.48
<30		2	50	44	27	4	4	3	4																						138	1.37
<40		5	36	12	19	6	4	4																							86	0.85
<50			14	19	13	2	1		1																						50	0.50
<60		15	80	82	77	53	45	36	21	39	8	1	1																		458	4.54
<70	1	62	307	260	216	155	144	86	70	129	59	33	9																		1531	15.18
<80		49	124	82	45	26	17	3	2	9	5	3																			365	3.62
<90	1	20	43	23	17	6	3	1	1																						115	1.14
<100		4	26	14	5	1	4	1																							55	0.55
<110		7	39	22	10	8	9	1																							96	0.95
<120		12	22	15	6	1	17																								73	0.72
<130		12	37	16	10	4	7	1																							87	0.86
<140		8	21	17	6	4	1	1																							58	0.57
<150		14	36	30	29	22	3																								134	1.33
<160		4	22	21	20	15	13	7	2						2	6	1														113	1.12
<170		4	15	21	6	2	7	5			2		1	4	6	5	5	1													84	0.83
<180		3	16	11	6	8	16	6	1			1	5	10	10	10	6	3	4												116	1.15
<190		1	7	15	4	14	6	10		3	1	1	1	3	5	2	3	4	4												84	0.83
<200		10	19	34	23	13	18	17	2	9	5	2	4	8	7	5	3	1													180	1.78
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<220		10	32	71	47	31	44	41	22	45	59	35	23	32	12	17	18	12	6		2	5									564	5.59
<230		11	30	57	37	28	36	26	20	36	49	19	17	21	16	24	18	13	11	1	2	2	1								475	4.71
<240		69	169	226	161	95	147	87	89	136	107	109	84	66	54	42	52	12	20	3	6	4	2								1740	17.25
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<260		5	38	29	30	18	15	12	5	7	2	7	7	1	2	1	1														180	1.78
<270		2	15	22	4	1	1	2																							47	0.47
<280		1	13	10	2																										26	0.26
<290		3	9	11	2	1	3																								29	0.29
<300		1	10	8	2		1	1																							23	0.23
<310			2	13	6		6																								27	0.27
<320			3	7	5	3				1																					19	0.19
<330		2	5	16	10	4	9		1	2																					49	0.49
<340			4	12	9	11	15	3	3	1																					58	0.57
<350		1	8	14	10	9	13	3	1																						59	0.58
<360		1	19	19	12	5	6																								62	0.61
																															10087	100.00
Count	49	435	1569	1612	1209	799	914	564	391	636	434	365	272	234	190	141	133	55	56	5	10	11	3	0	0	0	0	0	0	0	10087	
%	0.49	4.31	15.55	15.98	11.99	7.92	9.06	5.59	3.88	6.31	4.30	3.62	2.70	2.32	1.88	1.40	1.32	0.55	0.56	0.05	0.10	0.11	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	
100.0	99.5	95.2	79.7	63.7	51.7	43.8	34.7	29.1	25.2	18.9	14.6	11.0	8.3	6.0	4.1	2.7	1.4	0.8	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	% Exceedence	

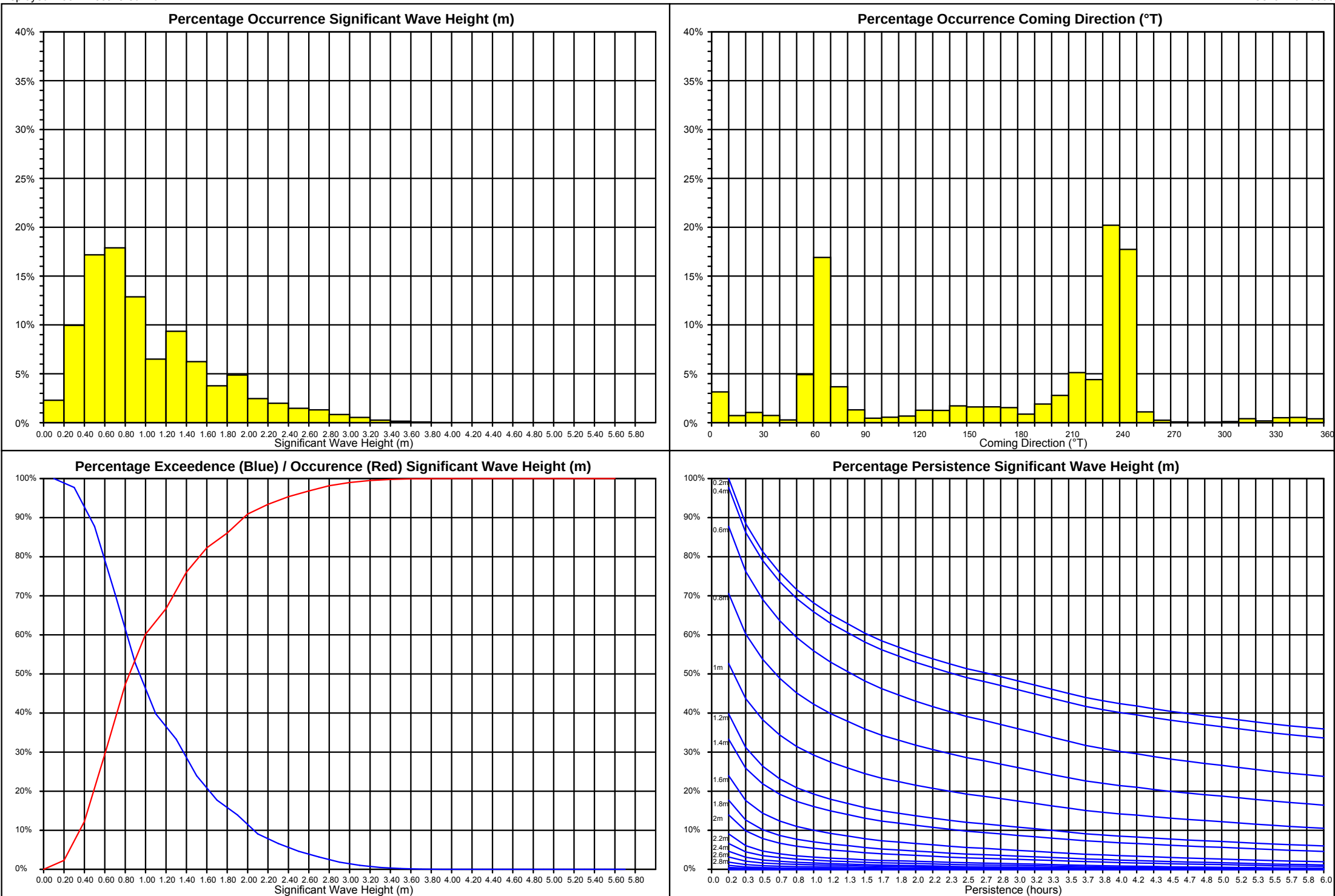
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



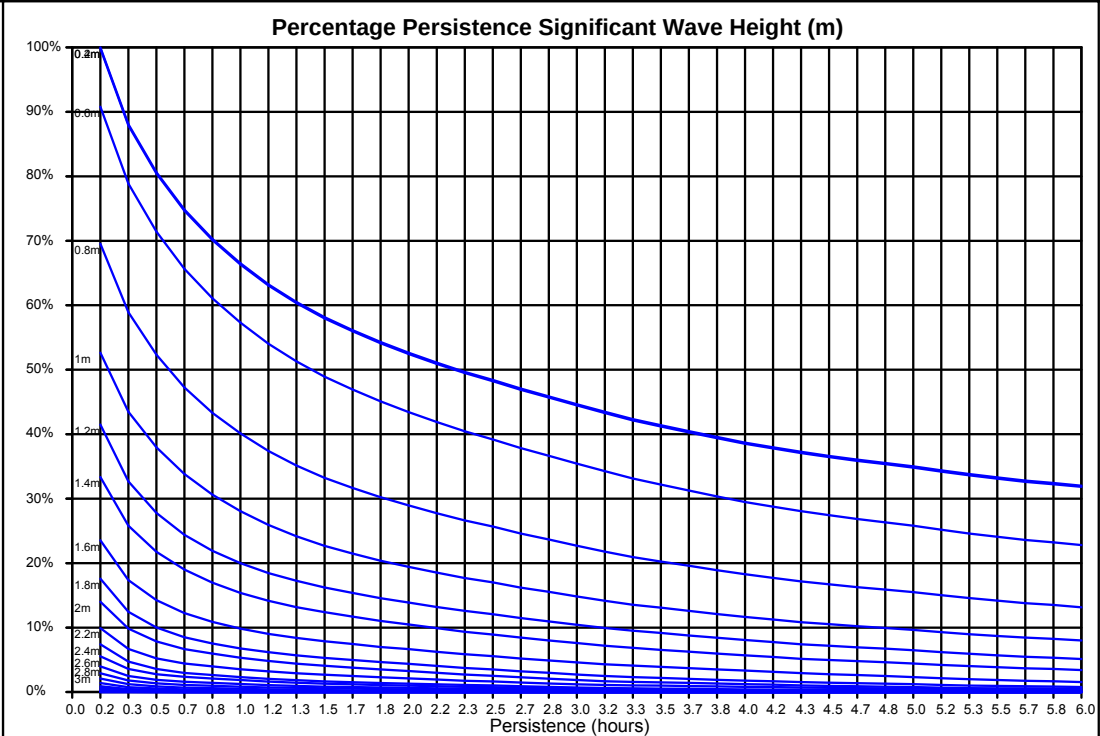
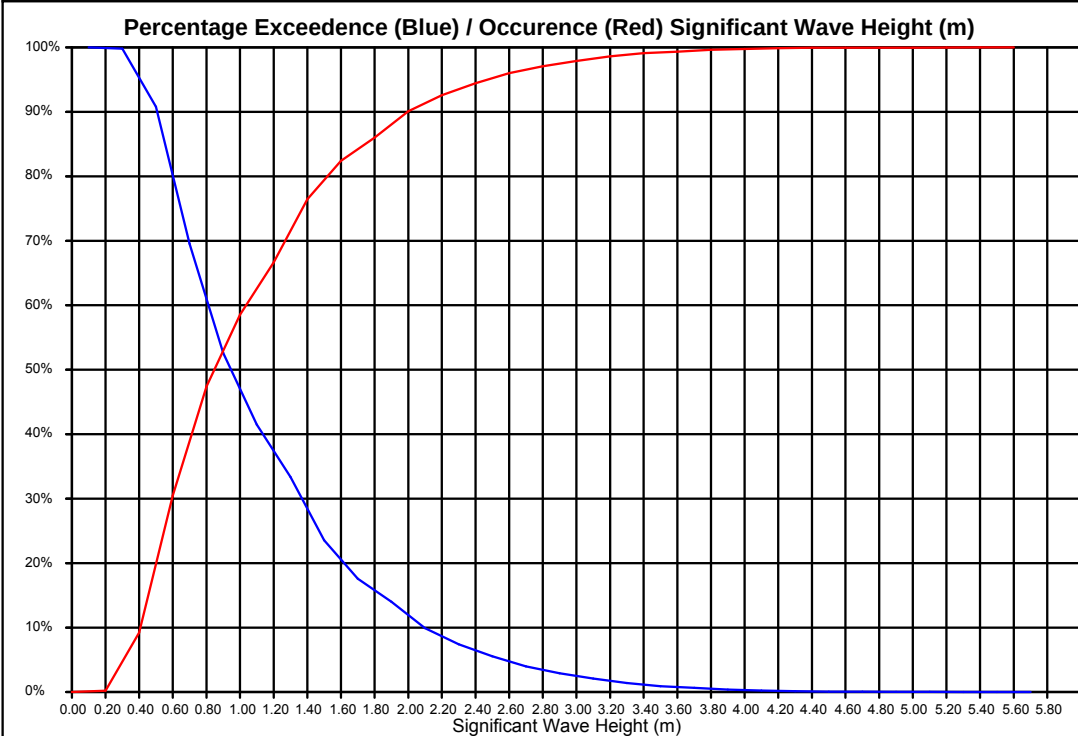
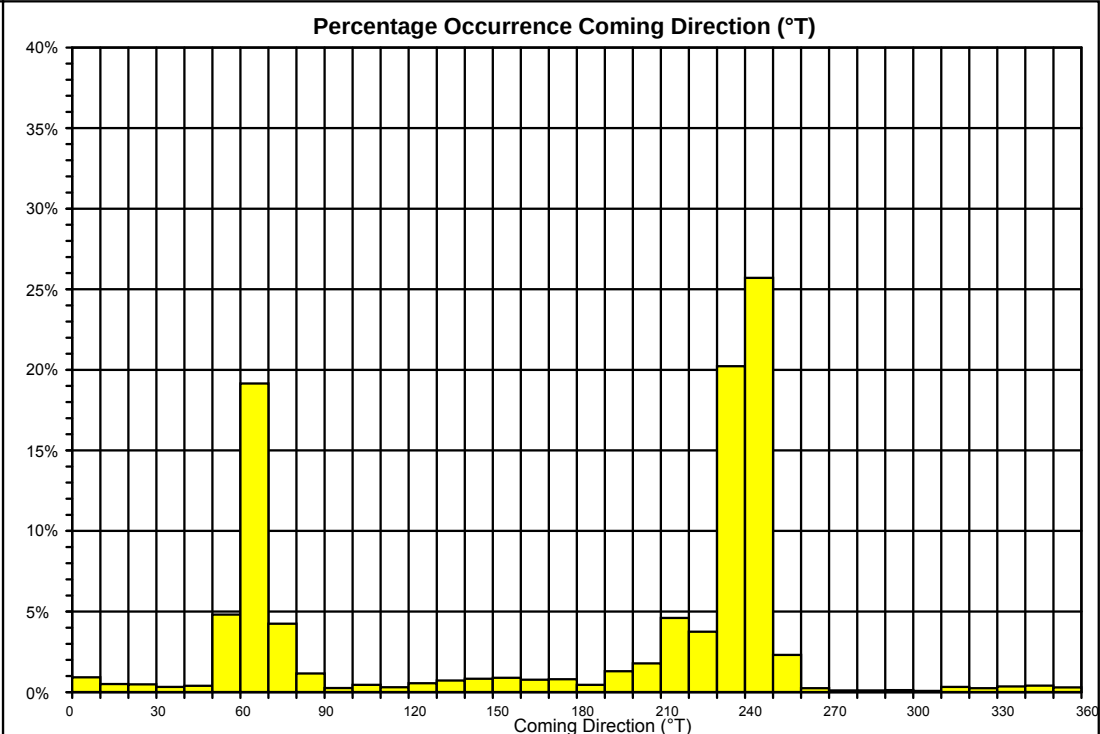
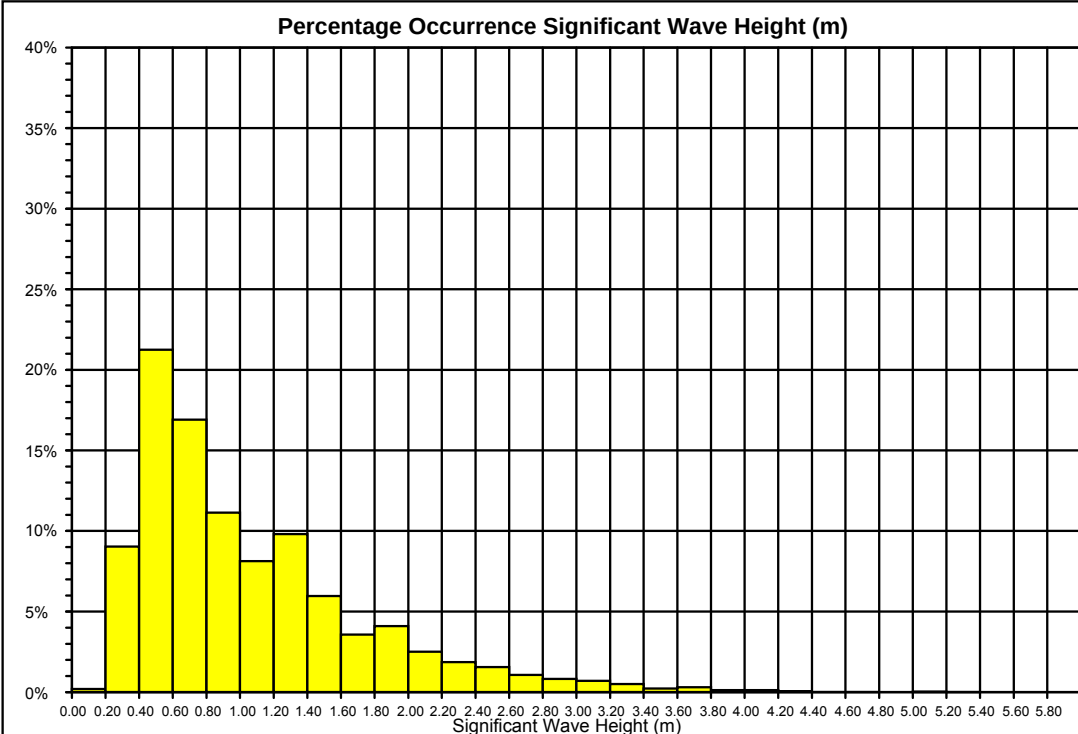
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Wave Buoy / WaveNetData
Serial No.: 0000



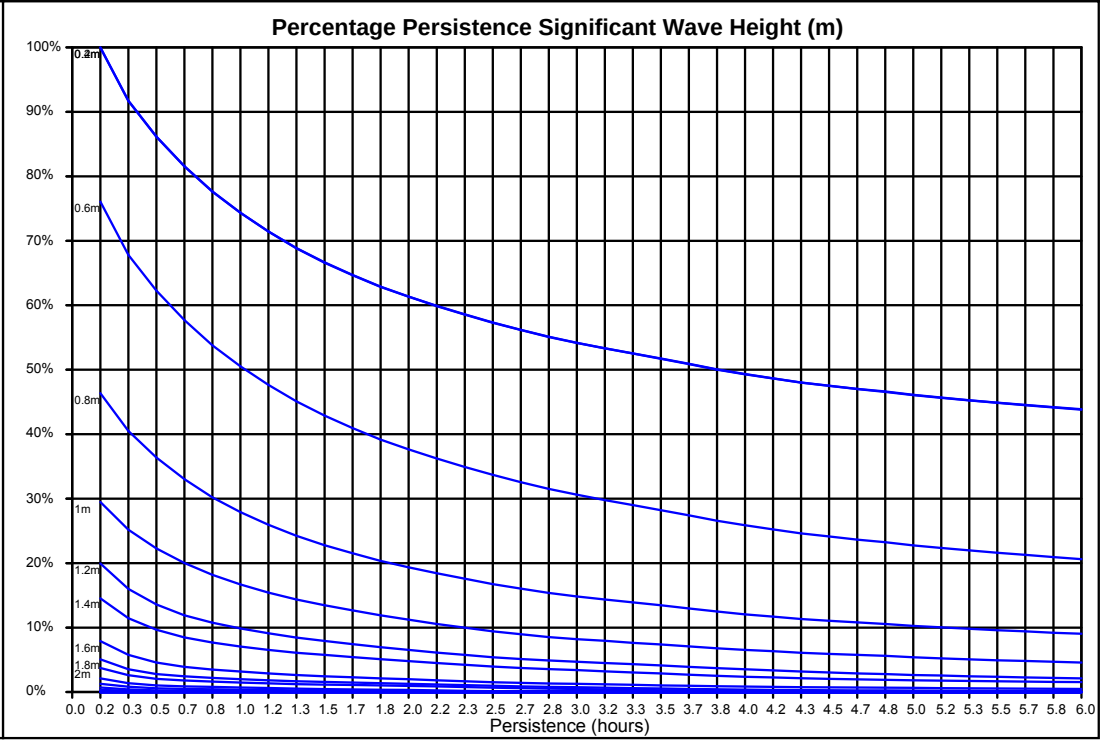
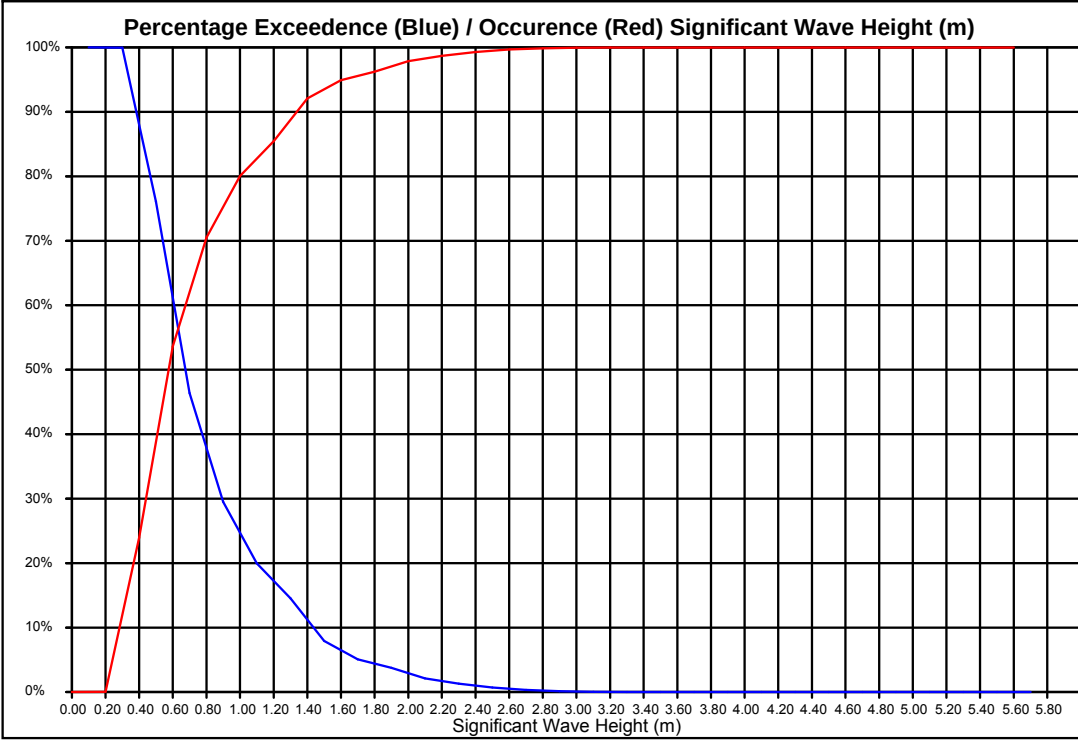
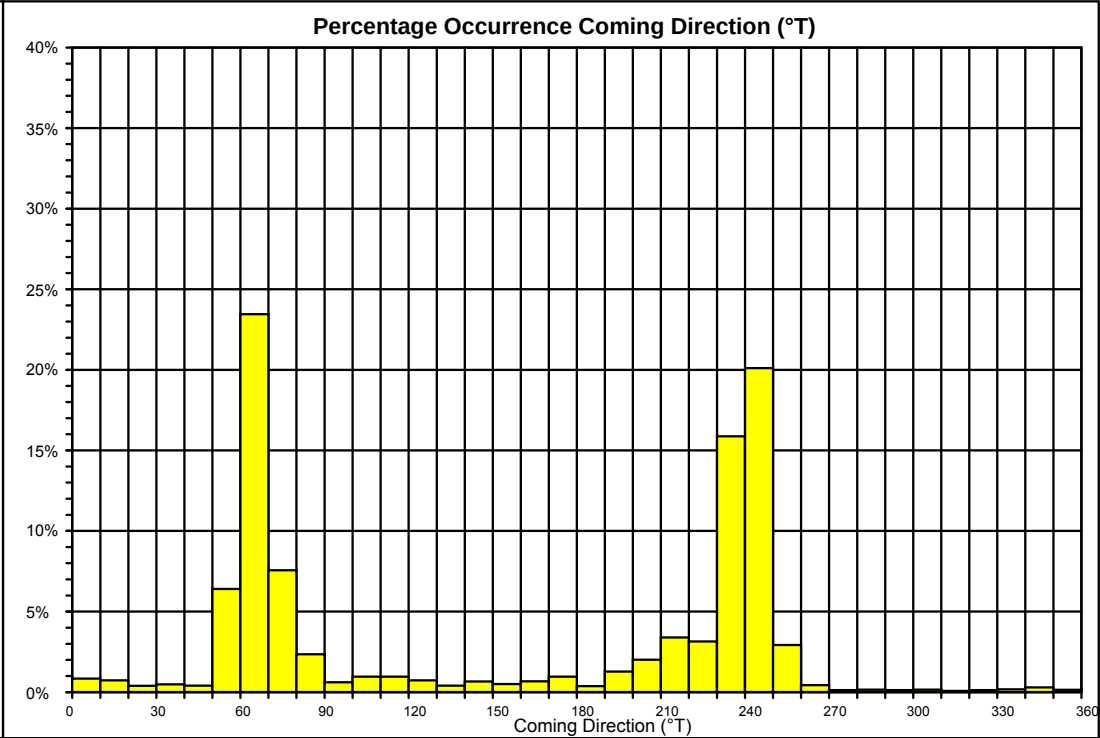
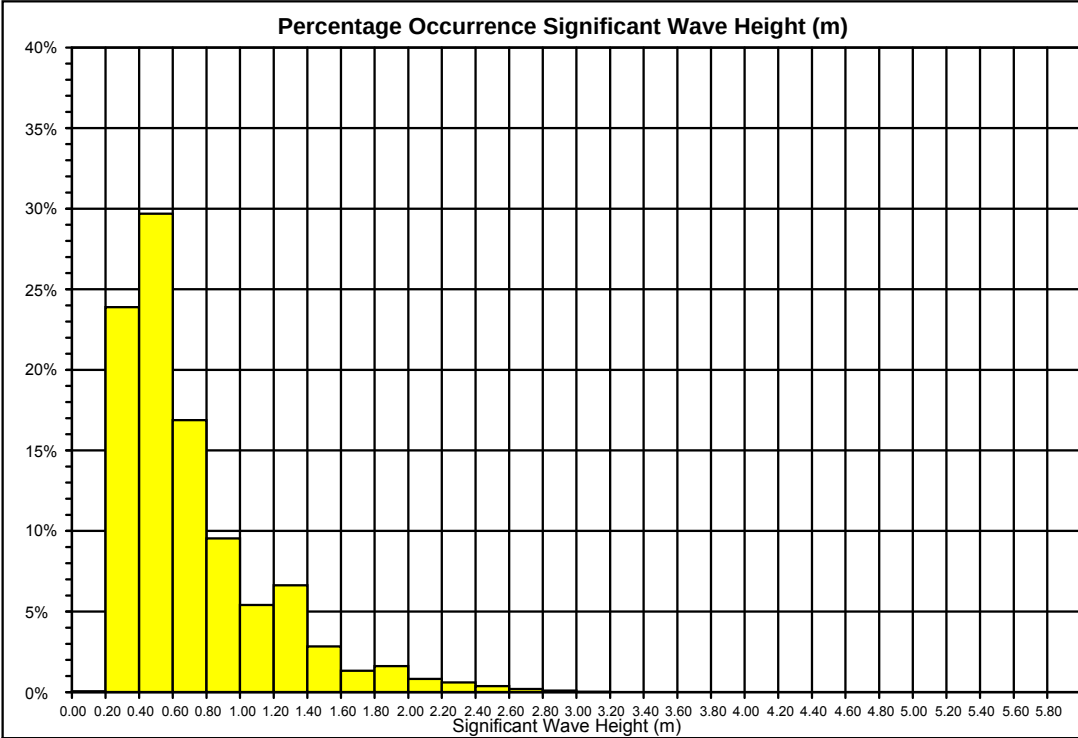
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



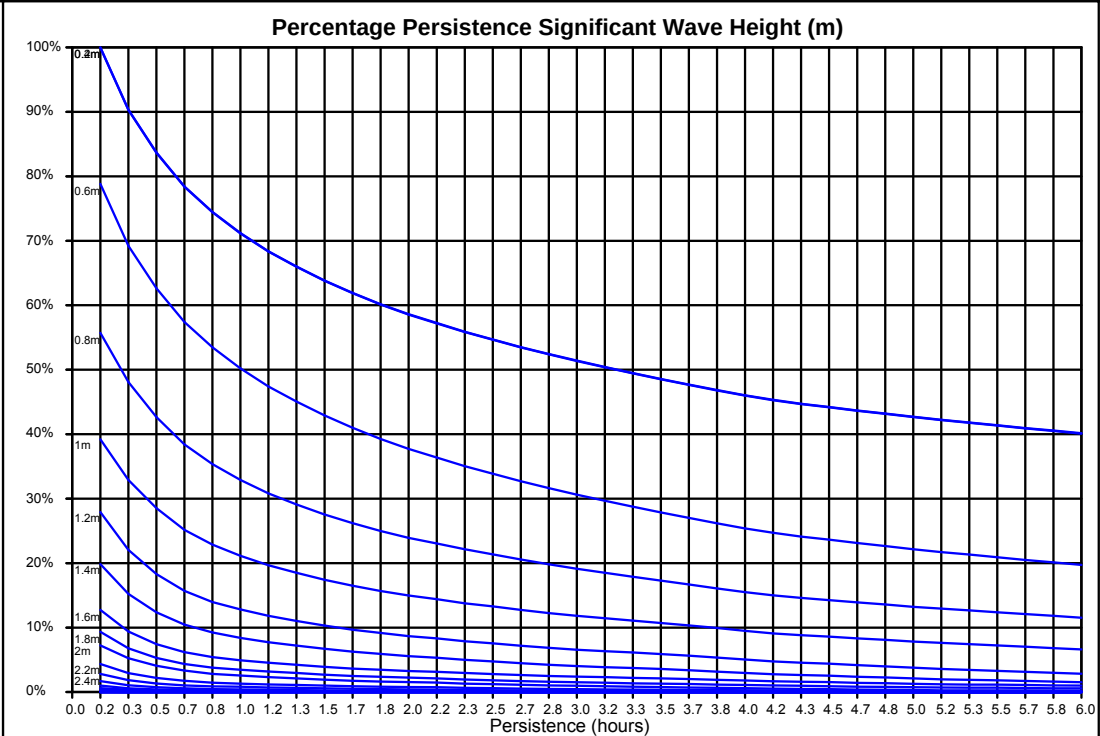
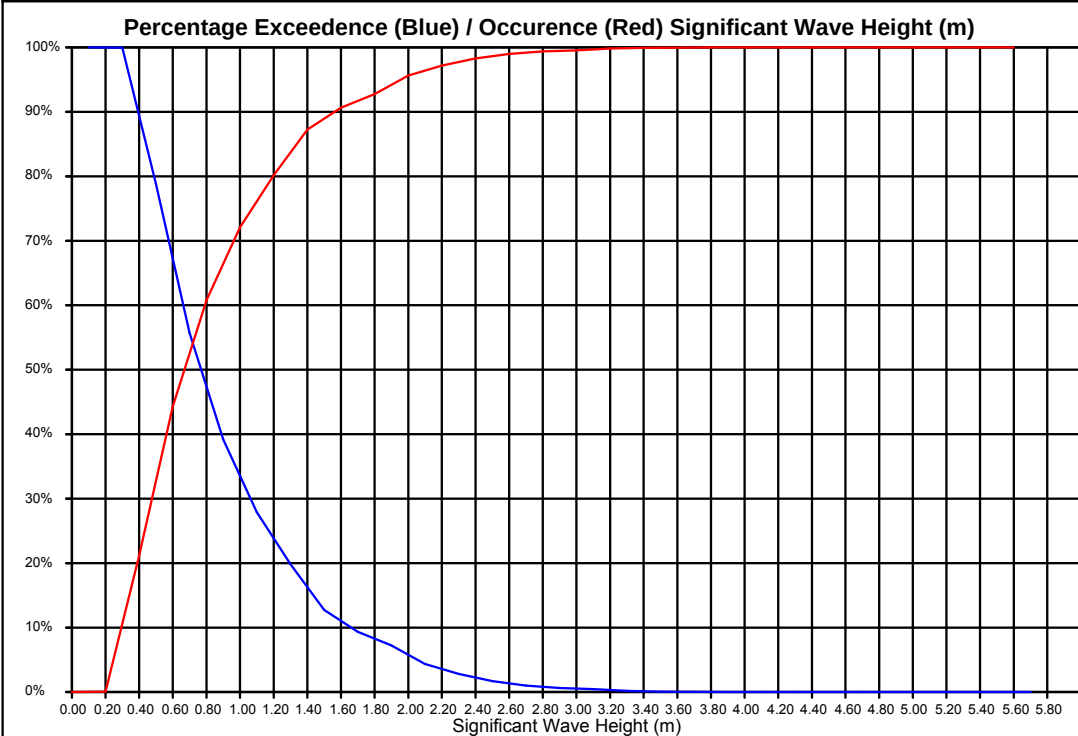
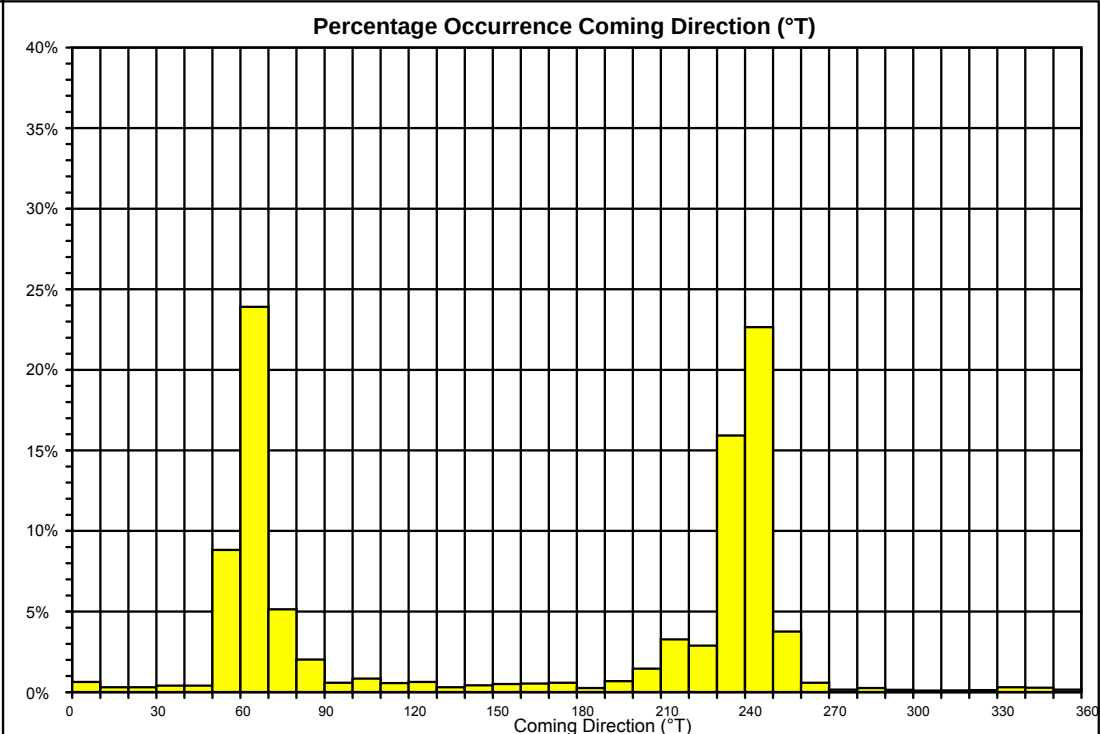
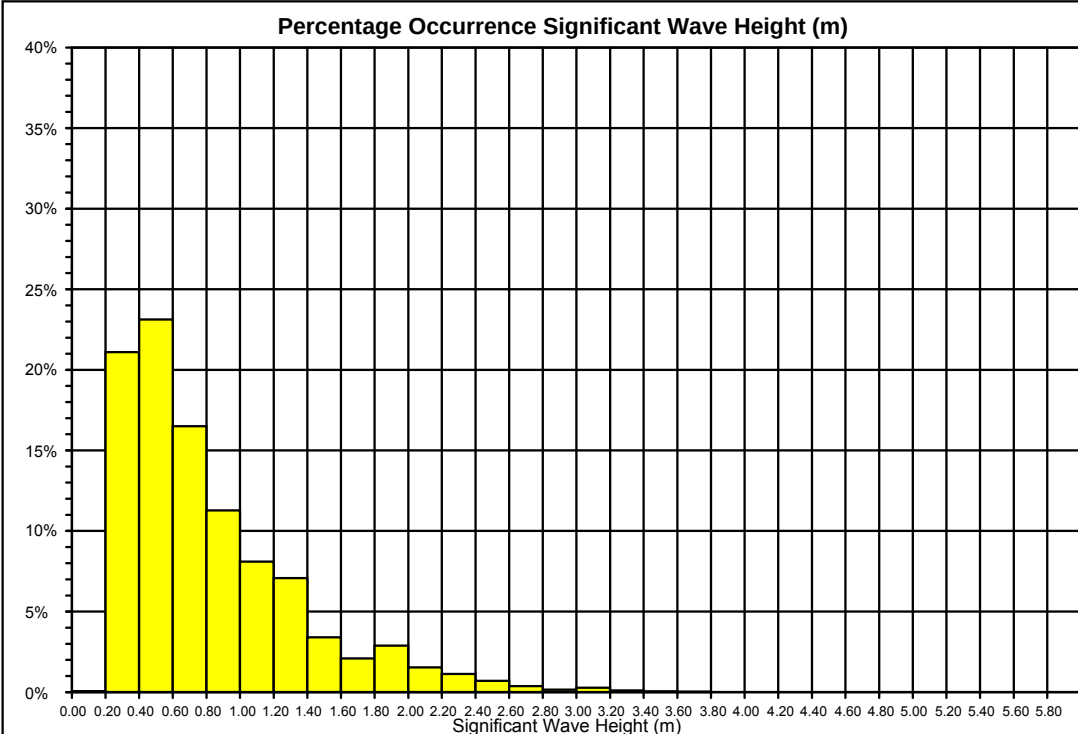
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

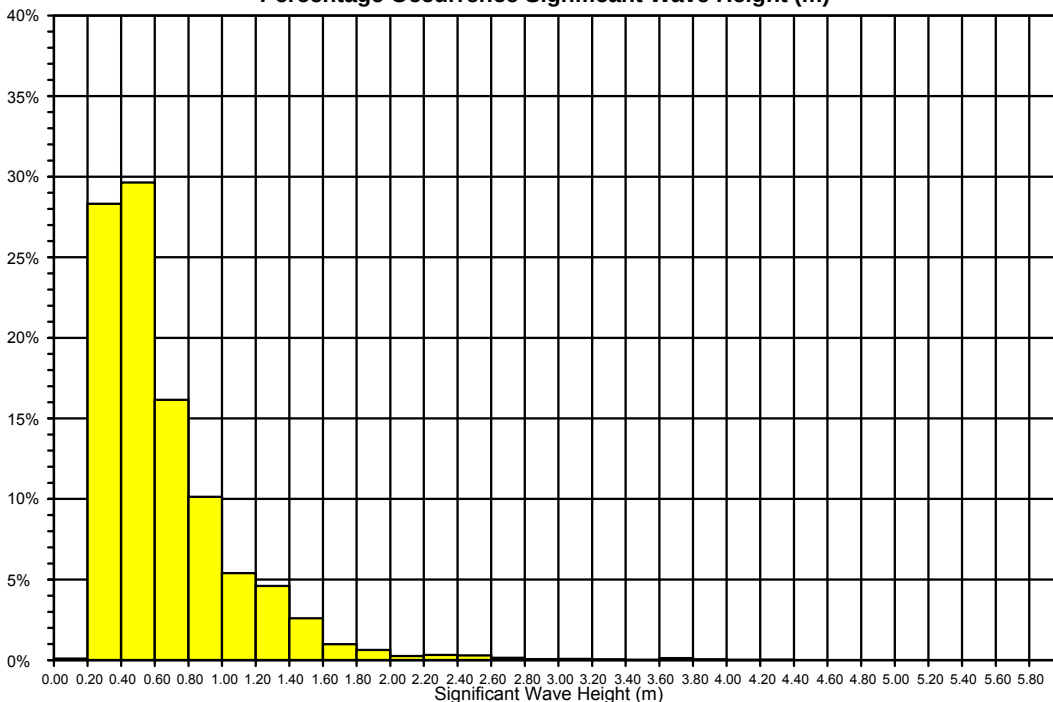


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Deployed: 2002 Recovered: 2011

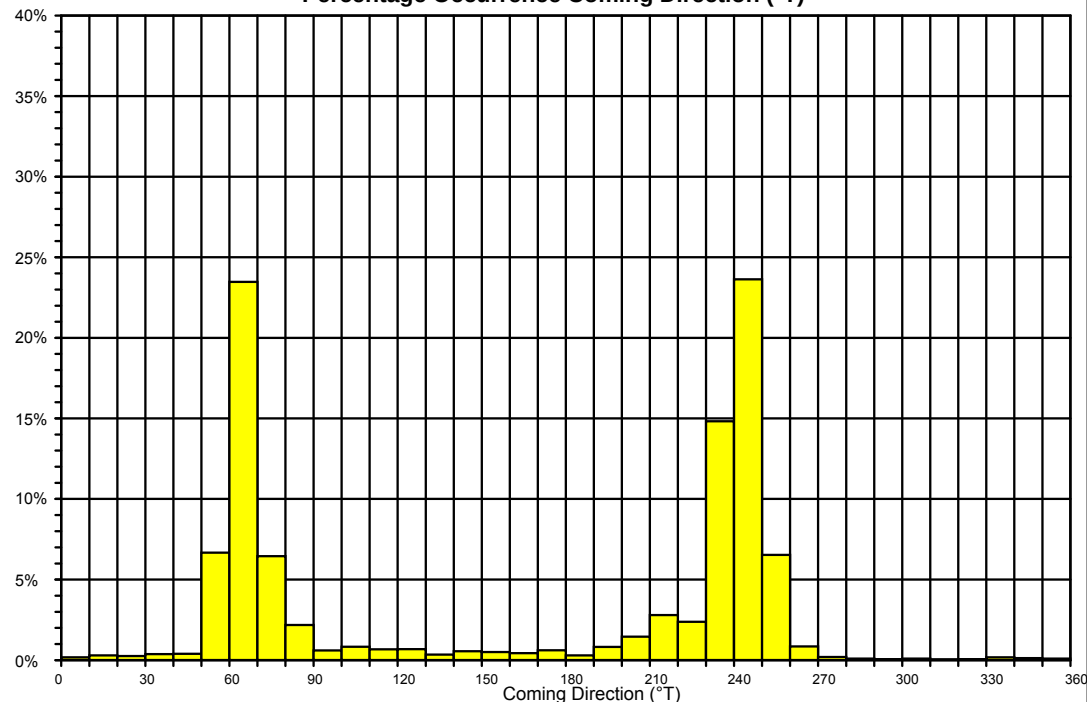
Wave Buoy / WaveNetData
Serial No.: 0000



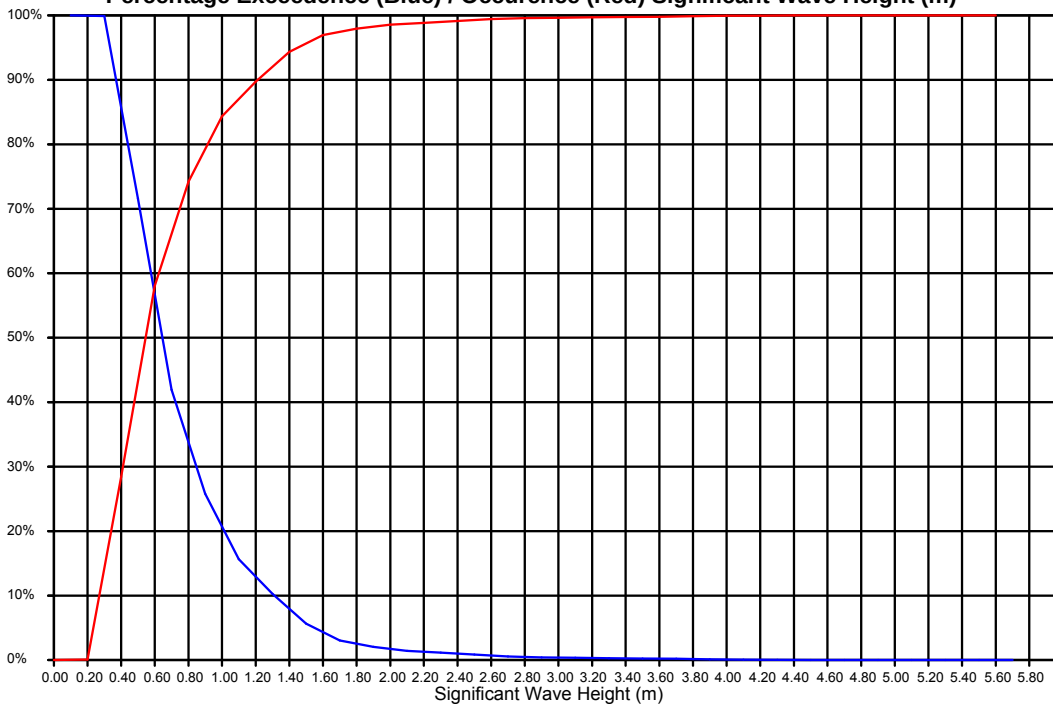
Percentage Occurrence Significant Wave Height (m)



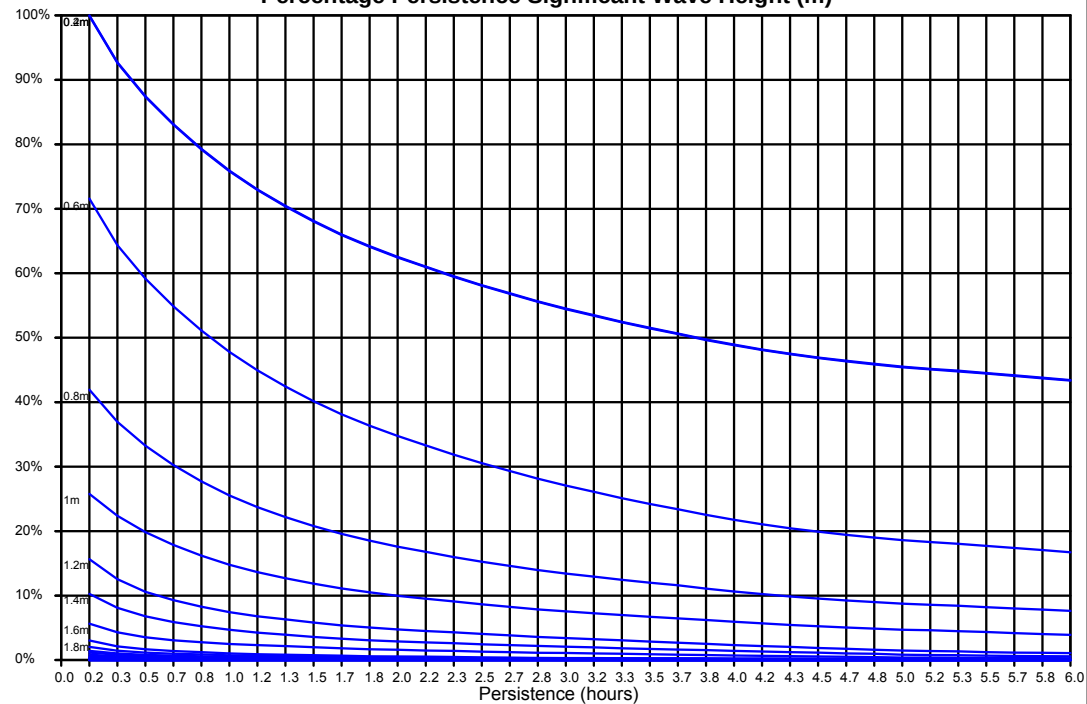
Percentage Occurrence Coming Direction (°T)



Percentage Exceedence (Blue) / Occurrence (Red) Significant Wave Height (m)

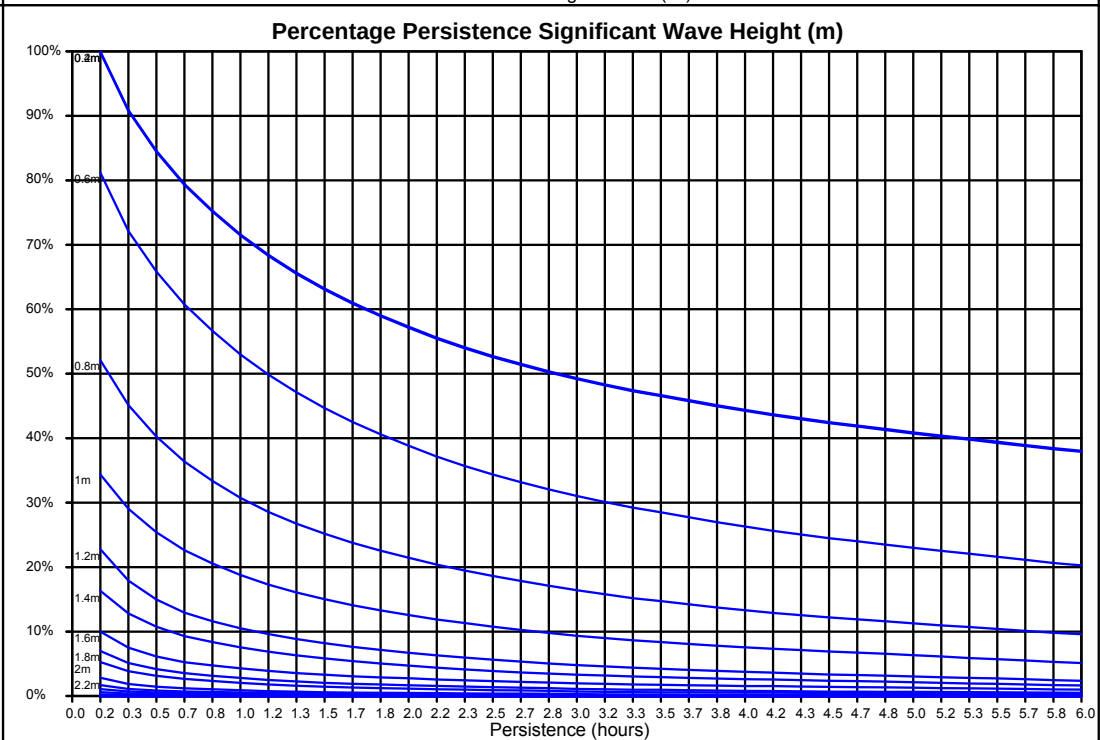
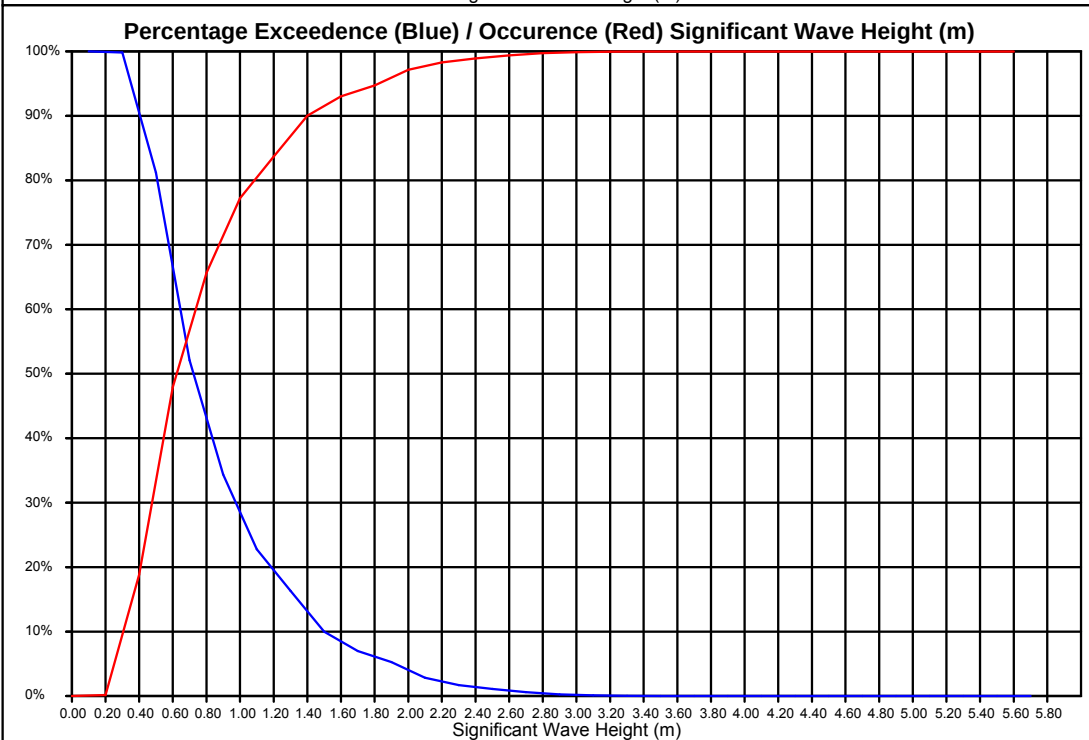
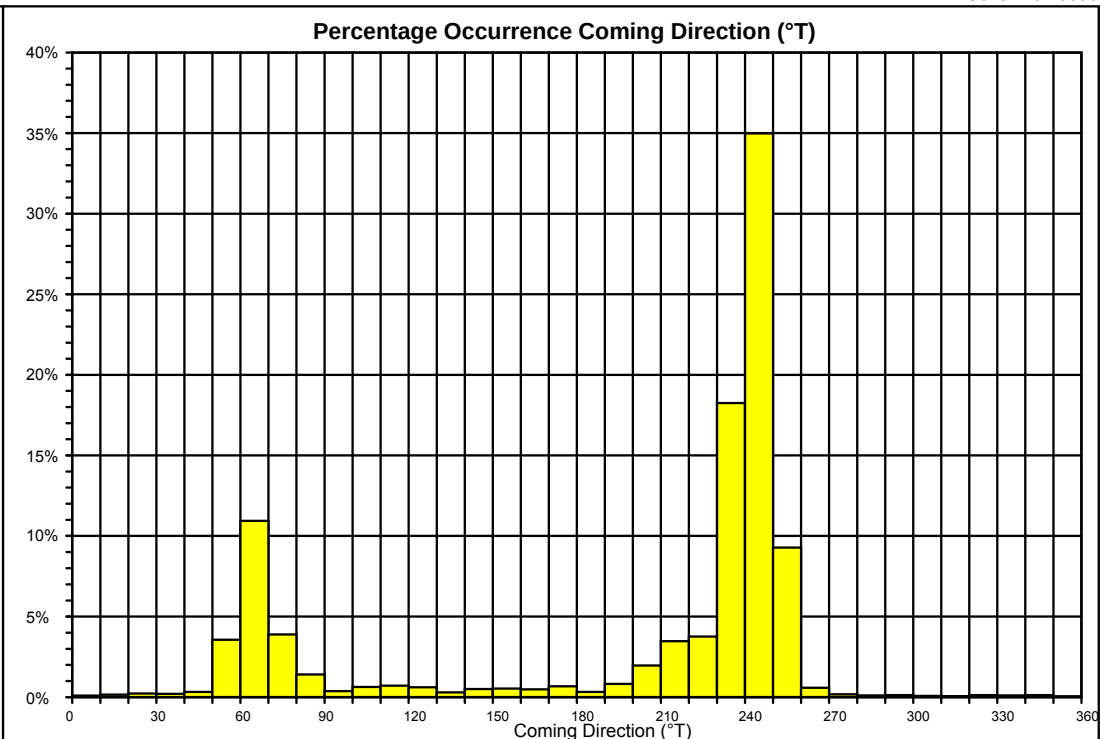
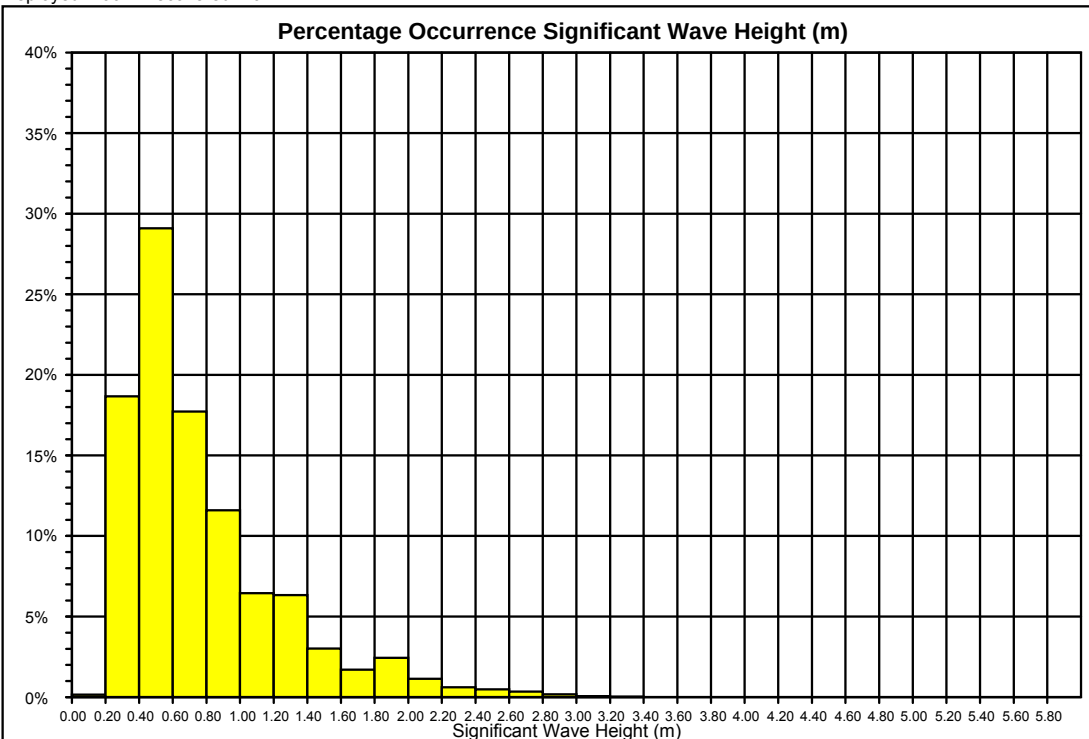


Percentage Persistence Significant Wave Height (m)



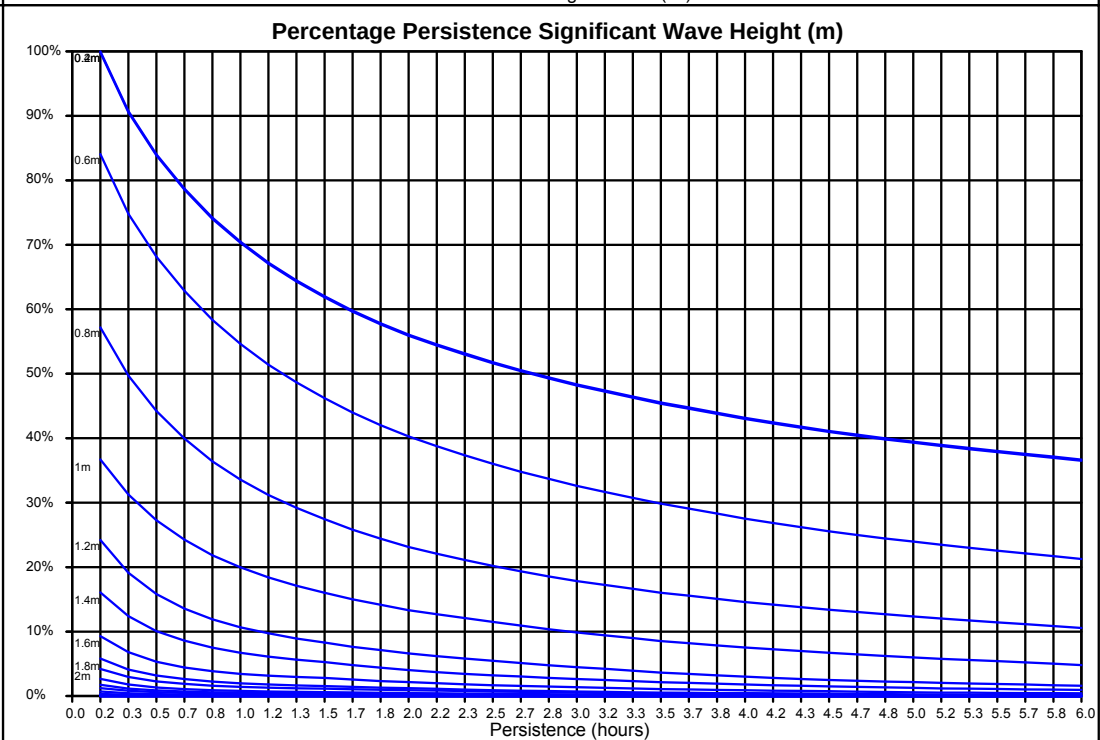
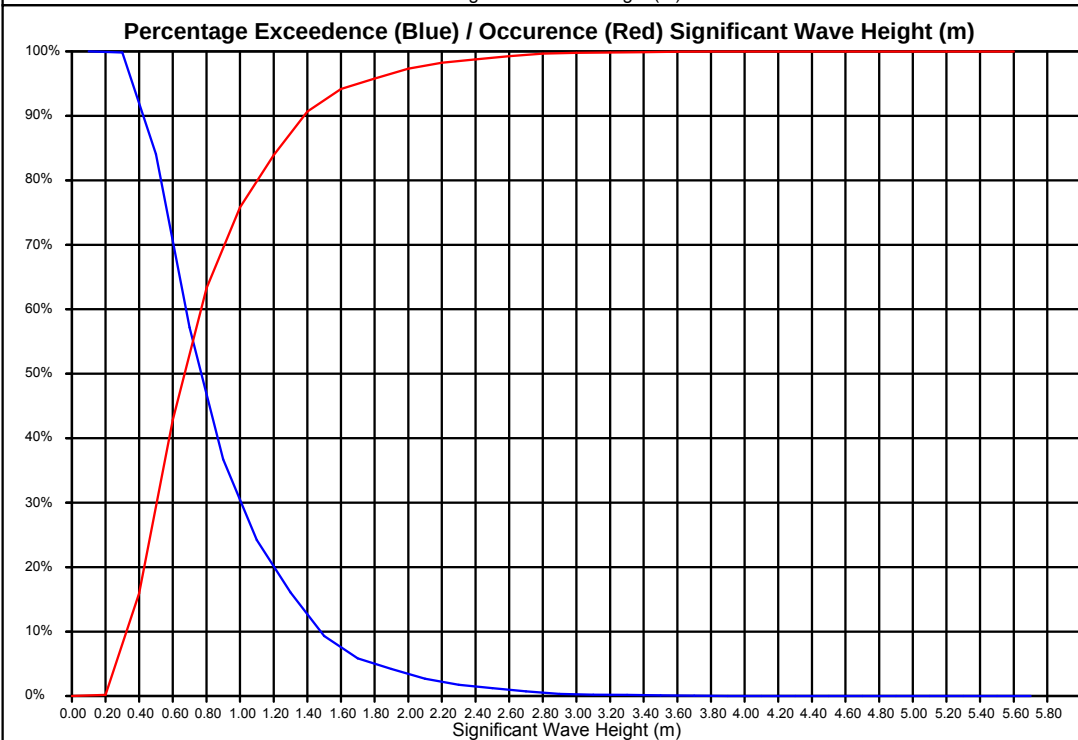
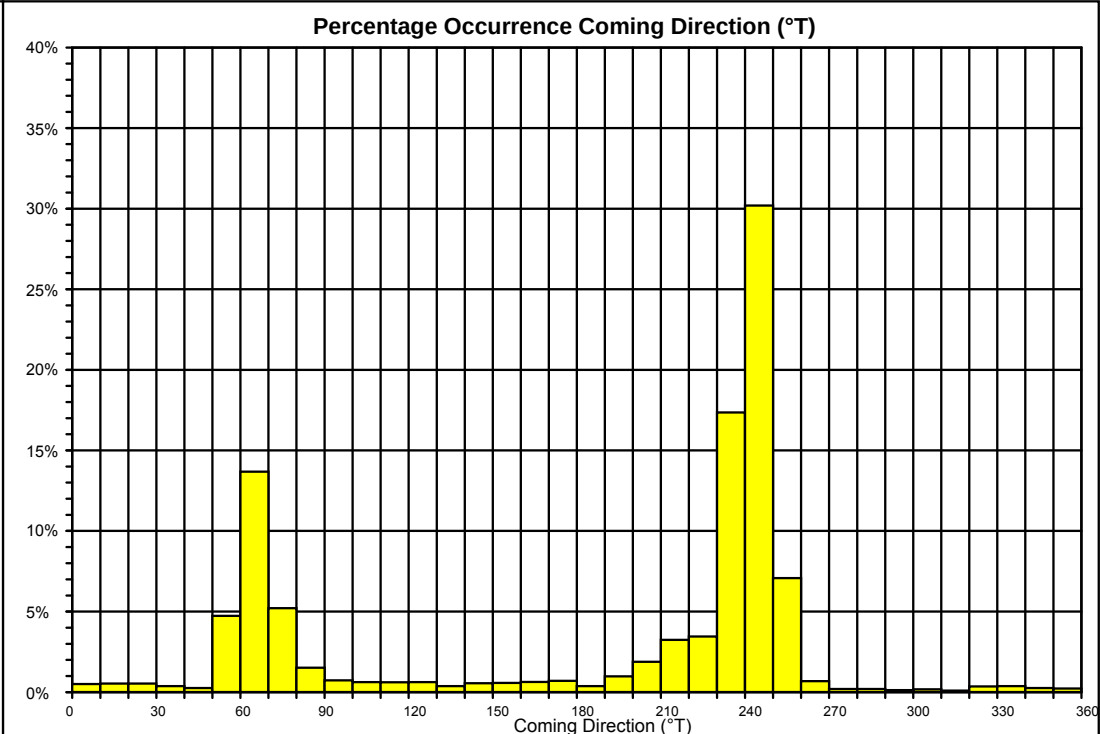
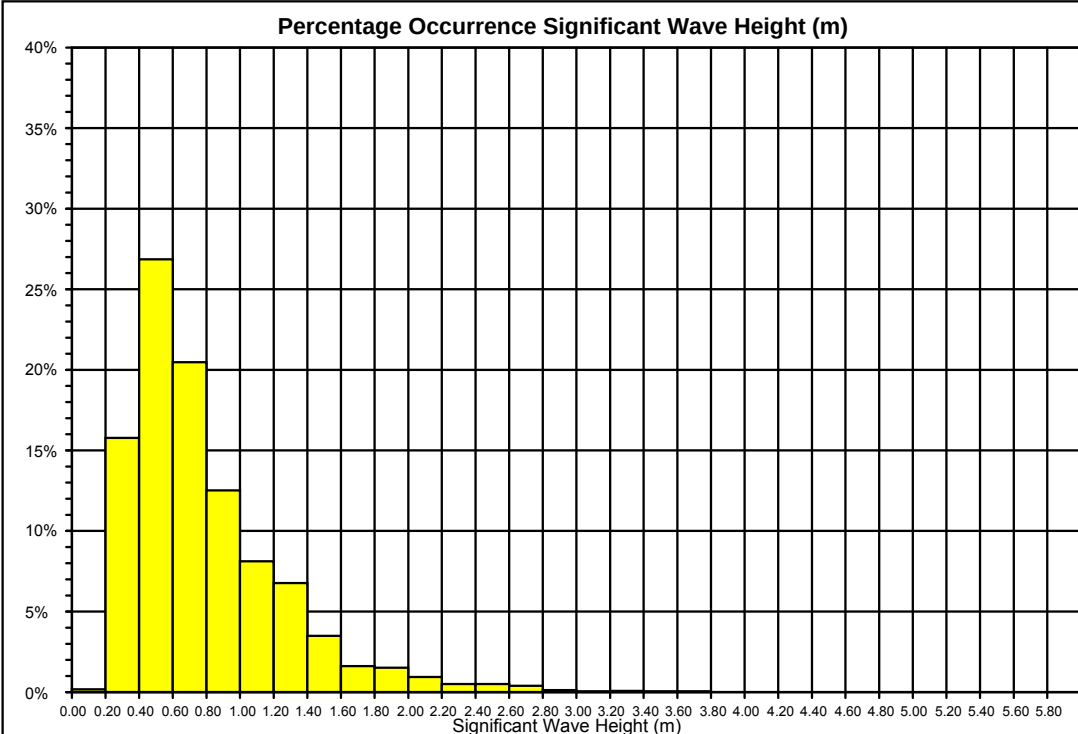
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



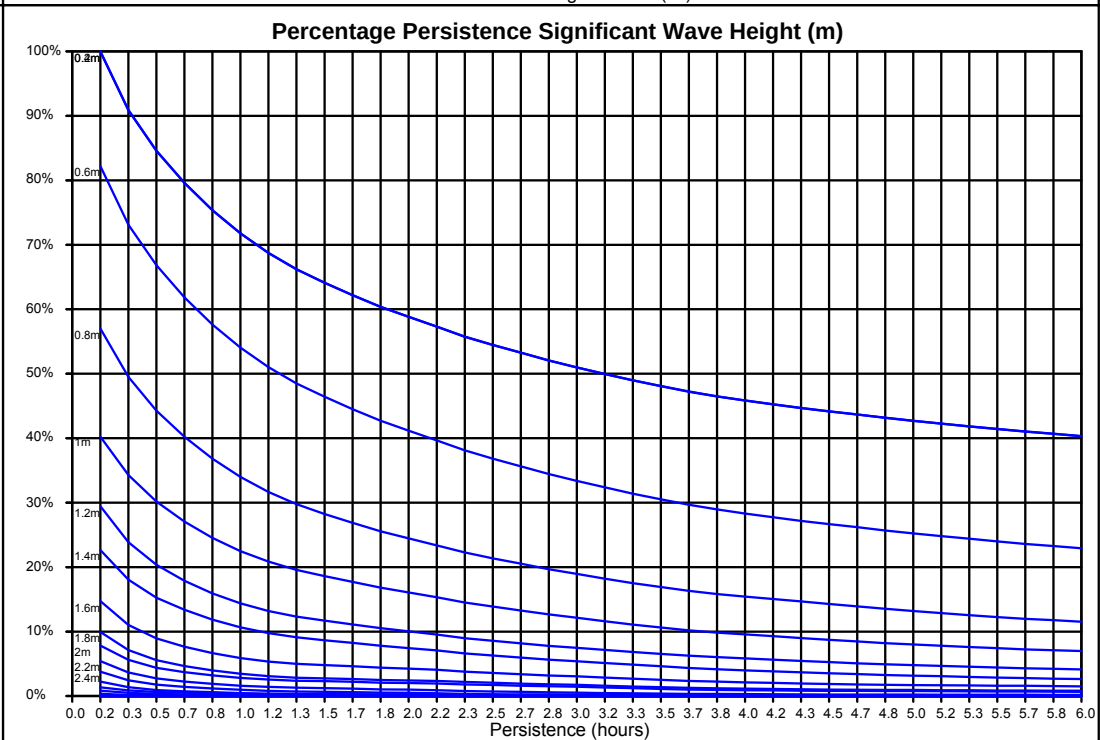
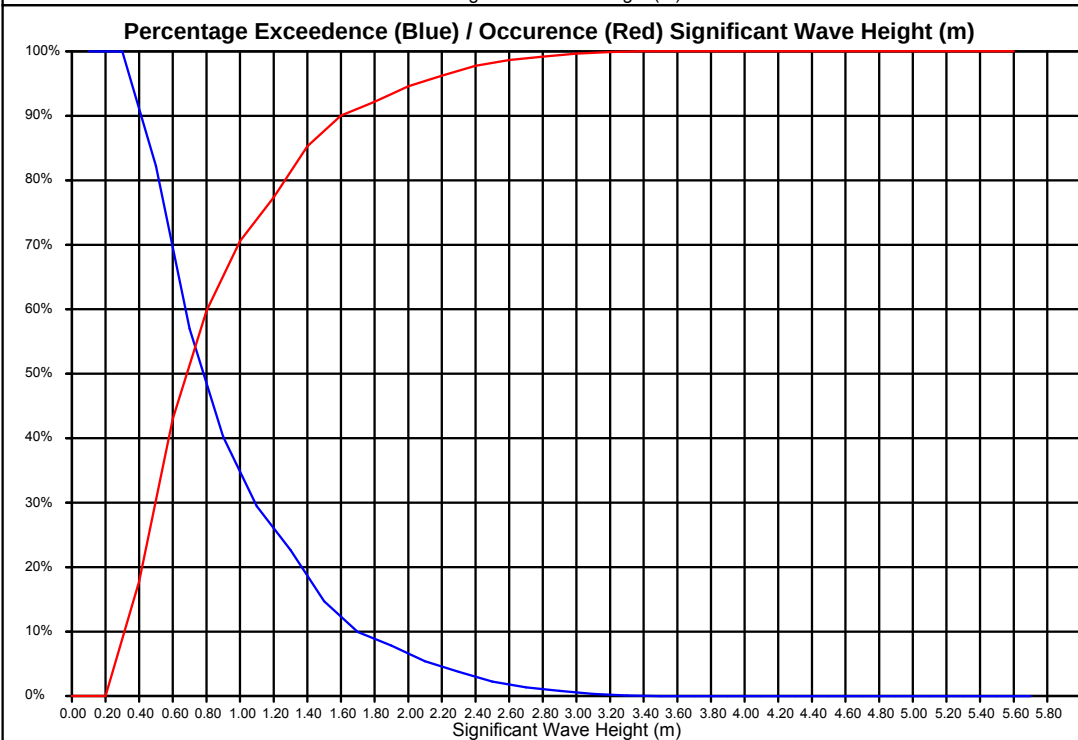
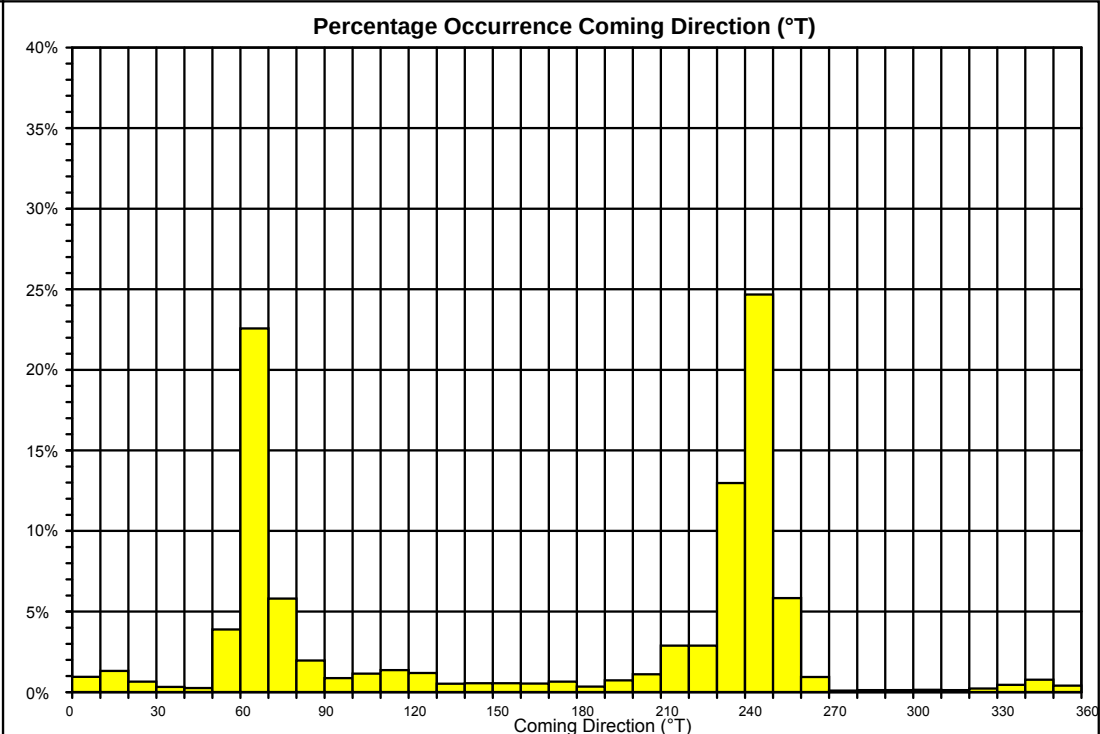
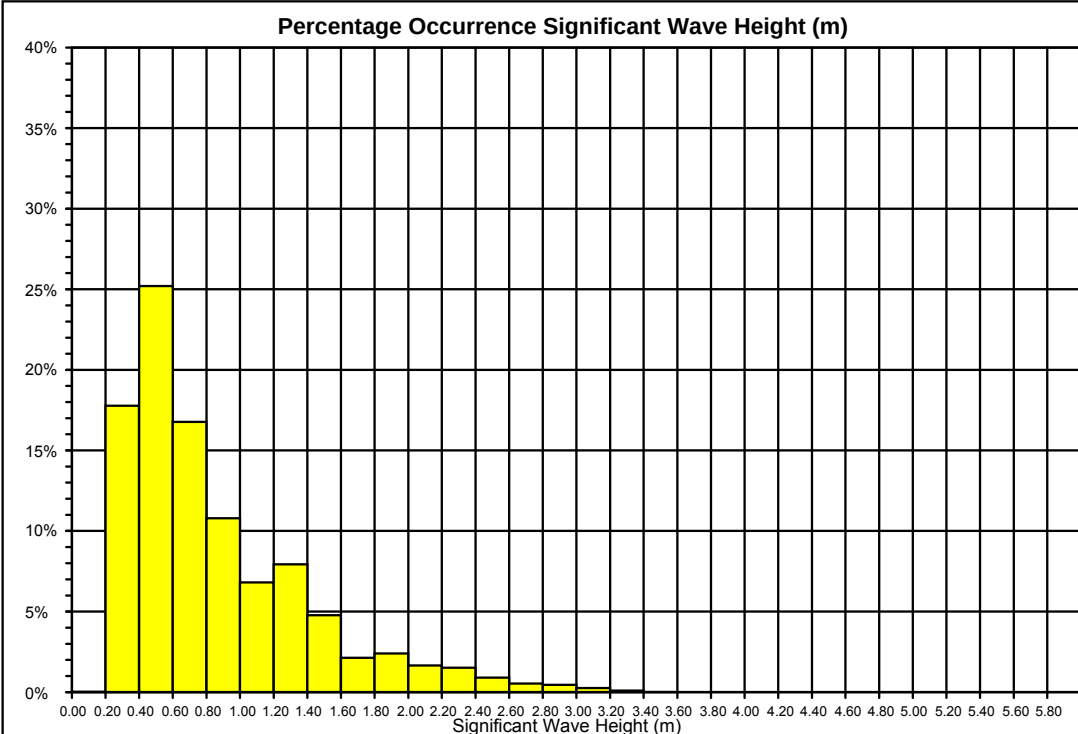
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



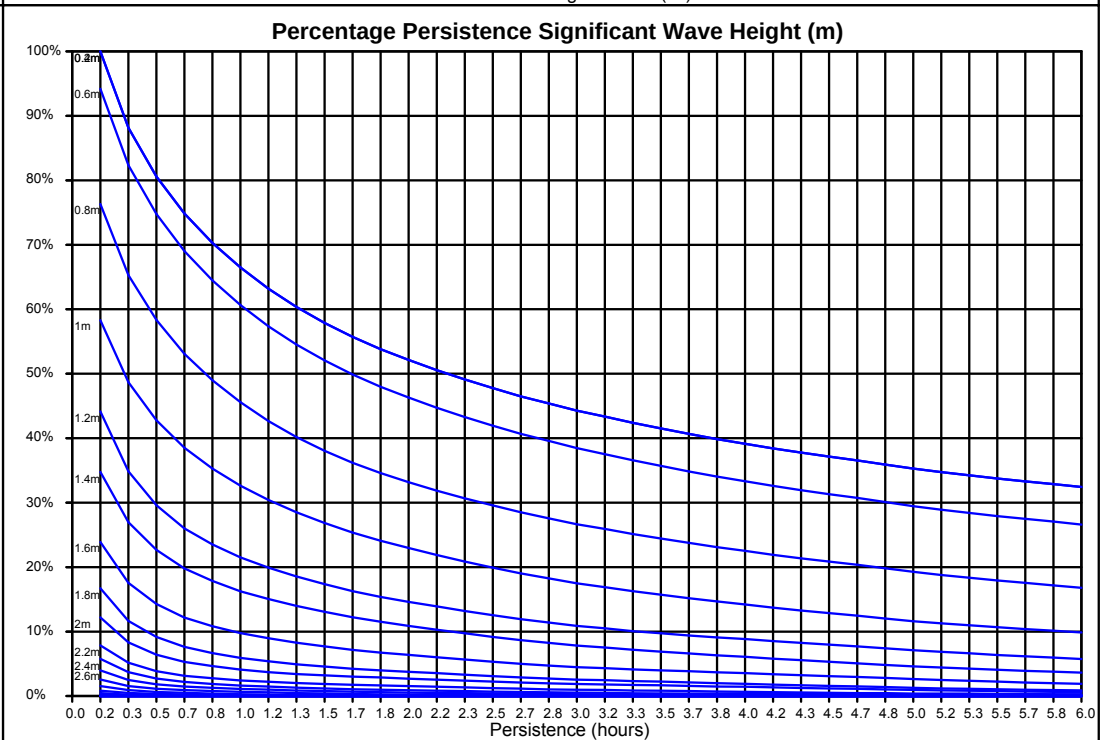
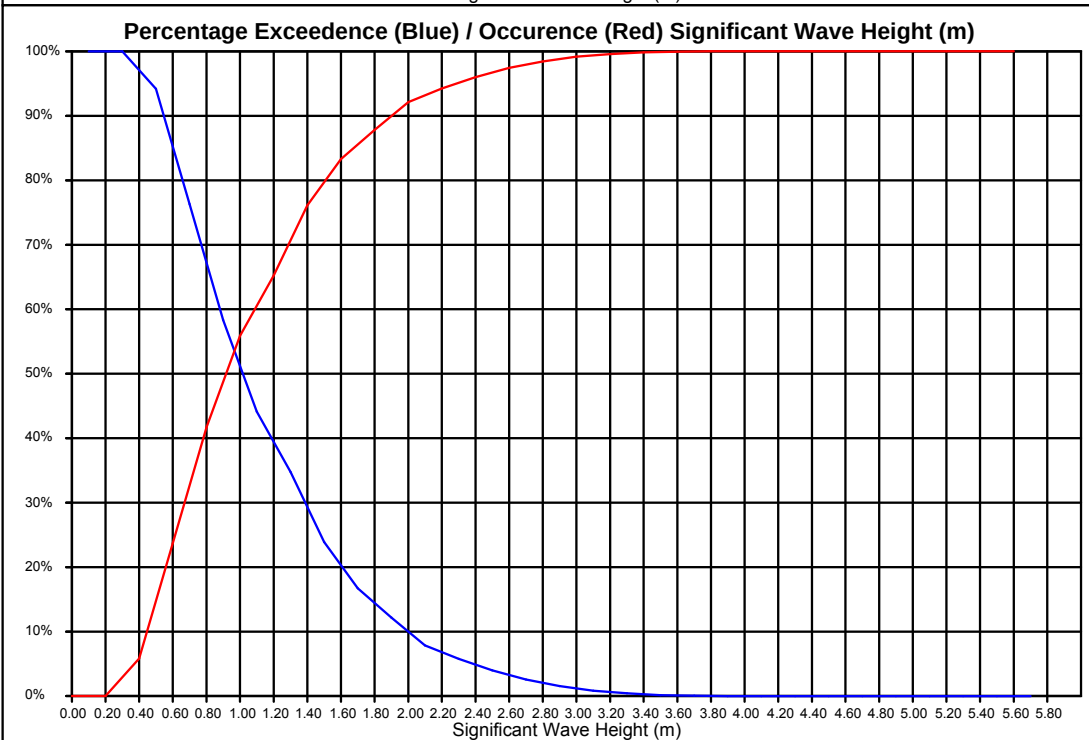
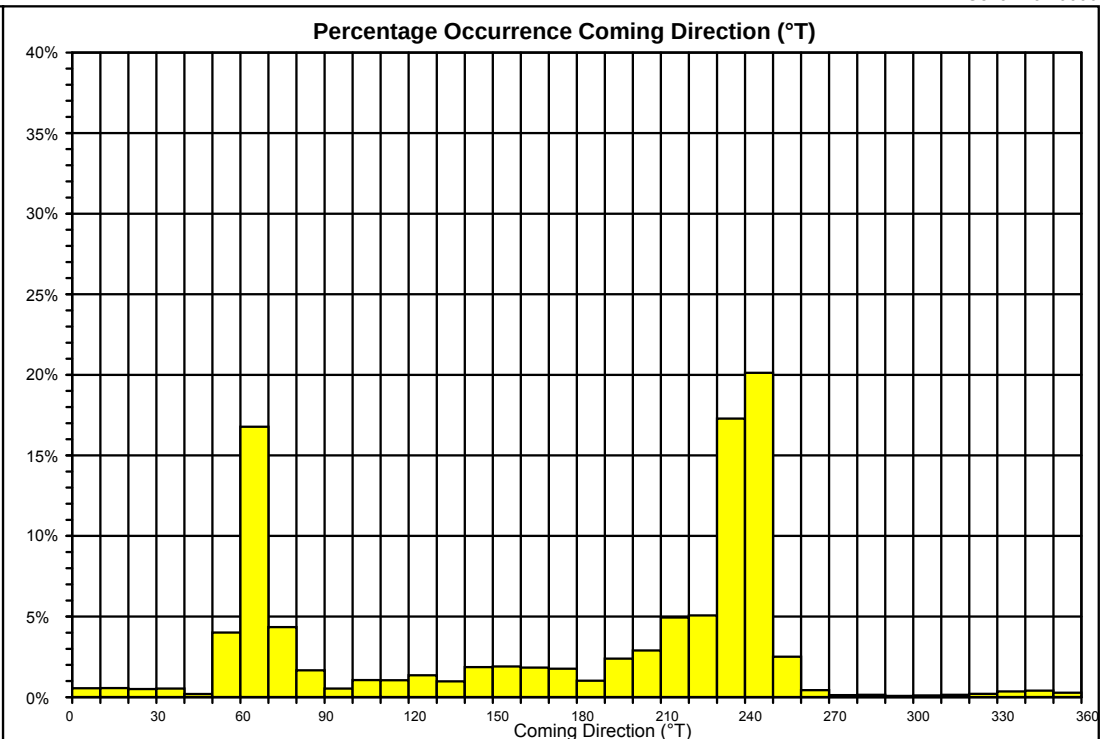
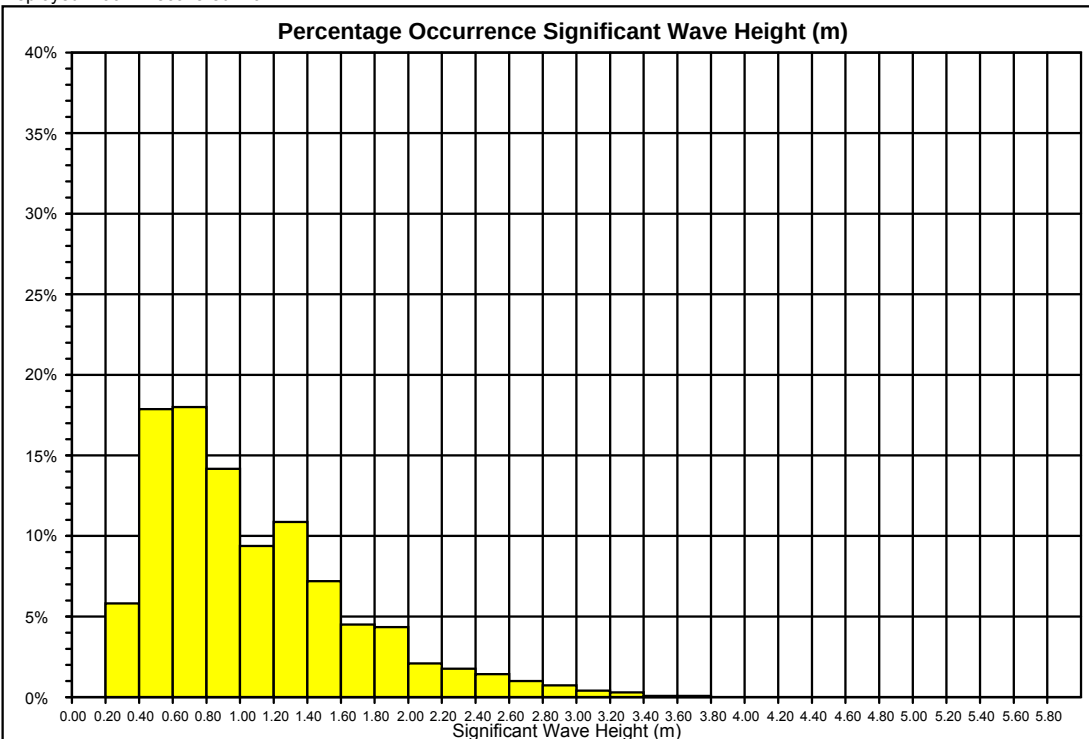
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



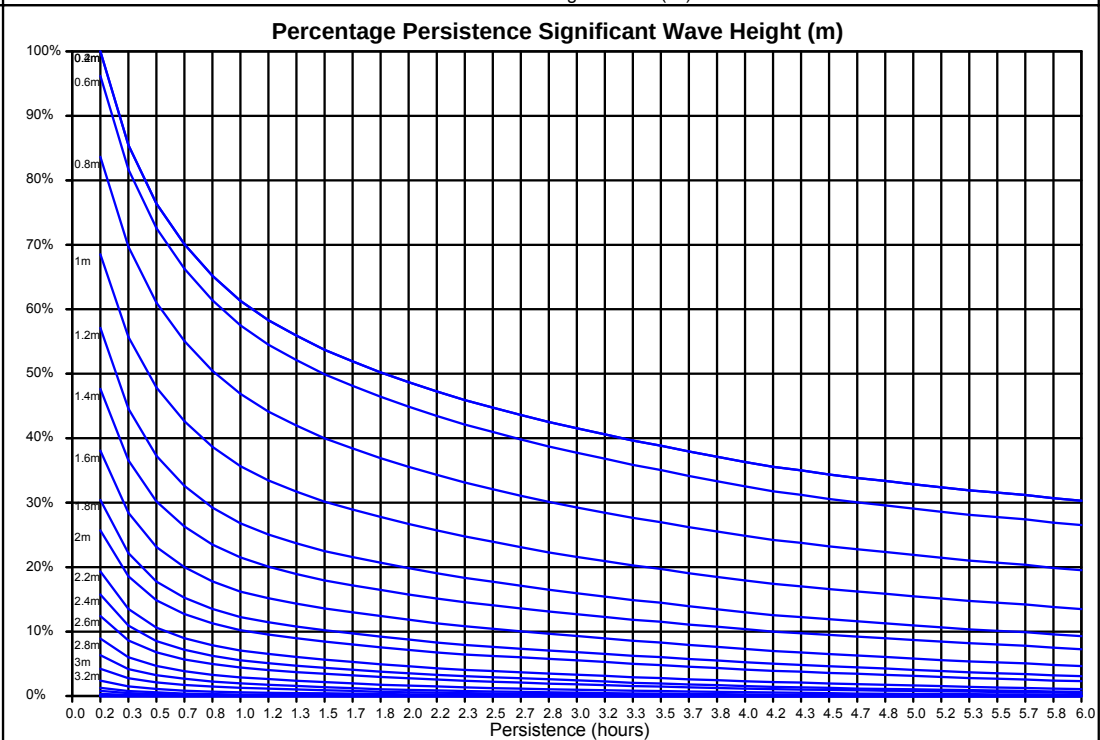
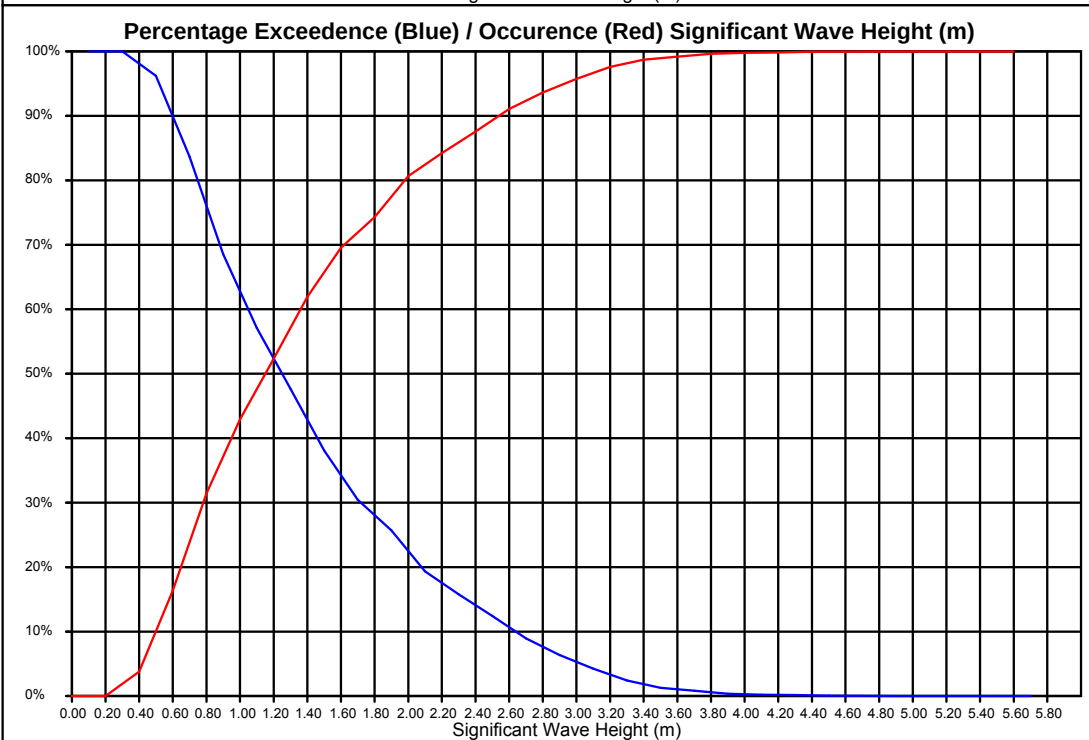
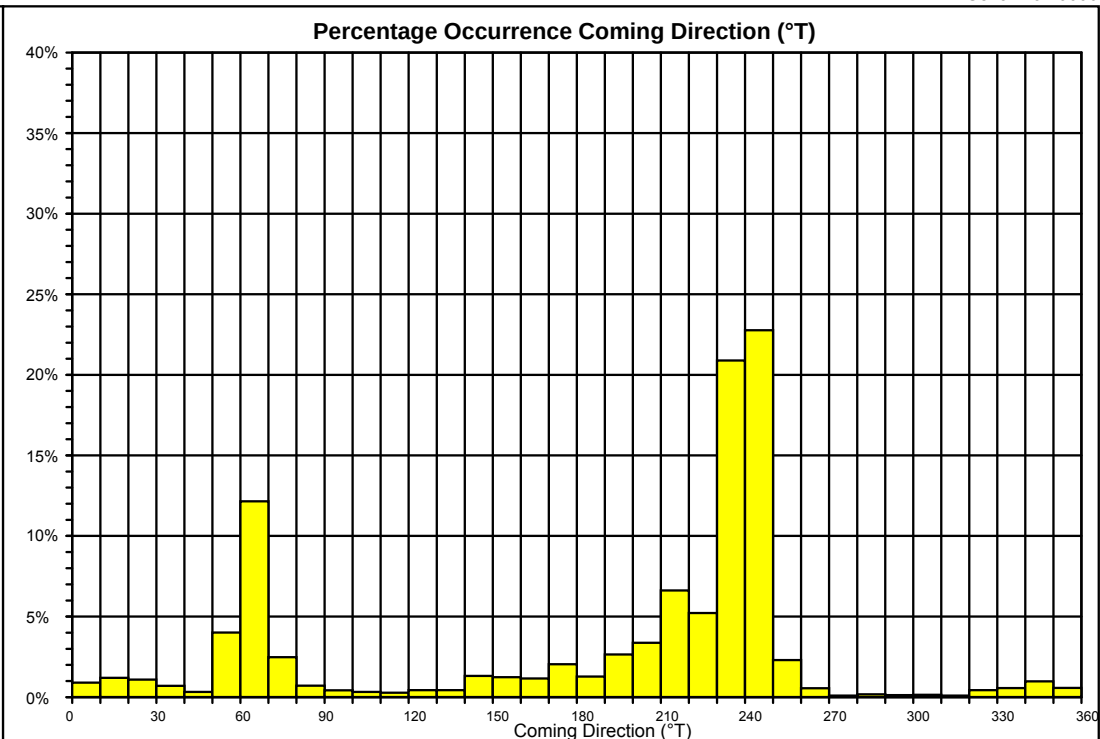
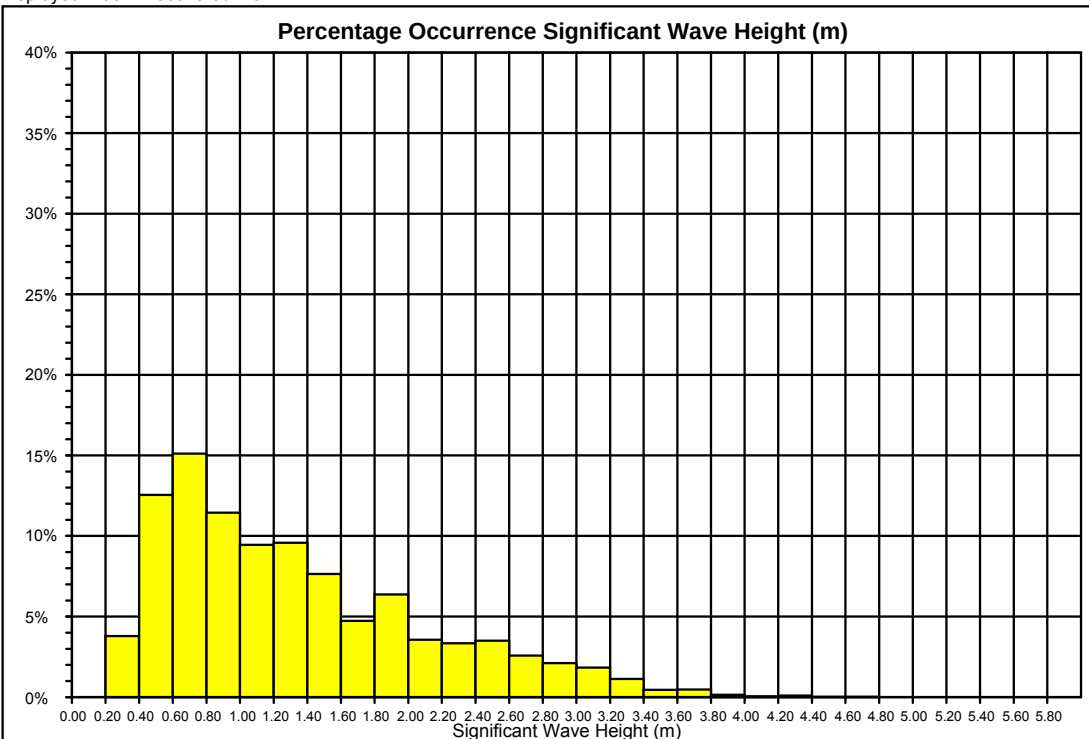
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



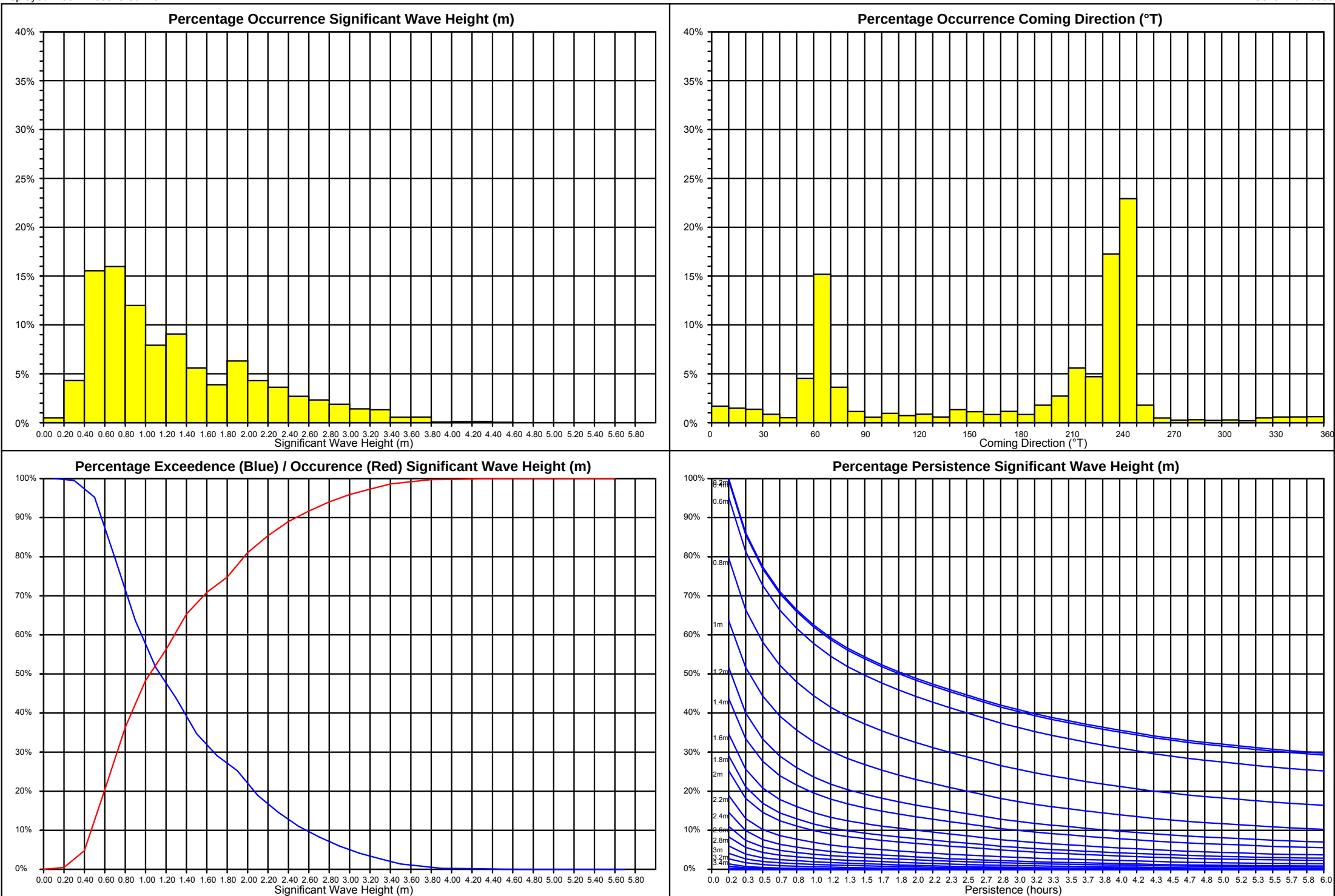
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Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000



Wave Buoy / WaveNetData
Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																													
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6
1	70.050	67.331	63.765	51.276	40.981	31.213	25.718	19.297	14.122	11.368	7.461	5.690	4.056	2.731	1.588	0.788	0.491	0.206	0.126	0.114	0.069	0.046	0.046	0.011						
1	55.652	52.933	49.402	38.159	30.253	22.451	18.657	13.859	9.974	7.883	5.016	3.656	2.422	1.497	0.743	0.354	0.206	0.103	0.080	0.069	0.023	0.023								
2	48.385	45.665	42.135	31.796	25.135	18.520	15.333	11.288	8.112	6.364	3.873	2.673	1.588	0.845	0.343	0.160	0.091	0.046	0.034	0.023										
3	43.631	40.912	37.382	27.706	21.765	16.030	13.162	9.460	6.775	5.198	3.039	1.977	1.131	0.503	0.171	0.080	0.046	0.011												
3	40.227	37.508	33.978	24.758	19.297	14.144	11.482	8.238	5.781	4.387	2.434	1.565	0.845	0.308	0.114	0.046	0.046	0.011												
4	37.131	34.412	30.916	22.051	16.944	12.259	9.780	6.981	4.764	3.473	1.839	1.017	0.526	0.183	0.046	0.011														
5	34.572	31.853	28.357	19.720	14.898	10.602	8.375	5.861	3.873	2.708	1.302	0.663	0.308	0.080	0.034															
5	32.755	30.036	26.541	18.018	13.345	9.414	7.415	5.084	3.222	2.091	0.914	0.480	0.183	0.057	0.011															
6	31.442	28.723	25.227	16.772	12.271	8.512	6.672	4.467	2.753	1.680	0.674	0.388	0.114	0.034																
7	30.139	27.420	23.924	15.538	11.322	7.735	6.021	3.885	2.205	1.234	0.446	0.263	0.080	0.011																
7	28.940	26.221	22.725	14.453	10.522	7.152	5.496	3.382	1.885	0.971	0.229	0.091																		
8	27.843	25.124	21.628	13.470	9.757	6.604	5.016	2.982	1.622	0.754	0.126	0.069																		
9	26.689	23.970	20.474	12.453	8.843	5.953	4.456	2.651	1.382	0.537	0.080	0.057																		
9	25.604	22.885	19.389	11.459	7.986	5.256	3.885	2.376	1.108	0.366	0.057	0.034																		
10	24.701	21.982	18.486	10.728	7.335	4.764	3.542	2.079	0.834	0.297	0.057	0.034																		
11	23.970	21.251	17.755	10.123	6.821	4.353	3.233	1.817	0.628	0.240	0.057	0.034																		
11	23.205	20.486	16.989	9.529	6.318	3.953	2.982	1.611	0.526	0.183</																				

Wave Buoy / WaveNetData
Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																														
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6	
1	75.921	73.635	63.670	48.928	34.393	23.162	19.231	12.375	8.673	6.696	3.965	3.017	2.080	1.417	0.800	0.354	0.183	0.069	0.011												
2	62.858	60.573	50.607	37.889	25.961	16.877	14.043	8.547	6.090	4.651	2.685	1.988	1.348	0.960	0.560	0.240	0.103	0.034	0.011												
3	55.282	52.996	43.031	31.788	21.516	13.700	11.266	6.605	4.673	3.576	2.068	1.497	0.948	0.674	0.331	0.069															
3	50.390	48.105	38.141	27.812	18.717	11.655	9.427	5.382	3.748	2.811	1.611	1.131	0.640	0.480	0.217	0.046															
4	46.082	43.796	33.833	24.281	16.249	9.975	7.987	4.354	3.039	2.285	1.234	0.857	0.491	0.388	0.137	0.023															
4	42.414	40.129	30.166	21.436	14.180	8.501	6.799	3.508	2.388	1.725	0.857	0.537	0.309	0.240	0.080																
5	39.866	37.581	27.652	19.517	12.775	7.519	5.976	2.902	1.885	1.337	0.617	0.343	0.183	0.149	0.023																
5	37.718	35.433	25.550	17.894	11.552	6.696	5.268	2.354	1.474	1.040	0.446	0.251	0.114	0.091																	
6	35.913	33.627	23.790	16.431	10.512	5.999	4.582	1.943	1.131	0.777	0.309	0.171	0.046	0.023																	
7	34.462	32.176	22.339	15.186	9.552	5.313	3.999	1.657	0.857	0.617	0.240	0.149	0.023	0.011																	
7	33.090	30.805	20.968	13.963	8.558	4.662	3.451	1.337	0.628	0.411	0.206	0.137	0.011	0.011																	
8	31.822	29.537	19.699	13.083	7.896	4.239	3.131	1.211	0.548	0.366	0.183	0.126	0.011	0.011																	
9	30.611	28.326	18.511	12.226	7.199	3.759	2.754	0.971	0.400	0.297	0.149	0.126	0.011	0.011																	
9	29.629	27.343	17.620	11.472	6.616	3.371	2.491	0.868	0.354	0.274	0.149	0.126	0.011	0.011																	
10	28.989	26.704	17.037	10.992	6.319	3.097	2.274	0.720	0.297	0.229	0.137	0.114	0.011	0.011																	
11	28.257	25.972	16.351	10.341	5.953	2.788	2.022	0.606	0.229	0.171	0.114	0.091	0.011	0.011																	
11	27.515	25.230	15.631	9.678	5.542	2.480	1.737	0.480																							

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

		Percentage Persistence Significant Wave Height (m)																													
hours		>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6
1		74.857	74.671	65.645	47.242	33.802	24.378	18.997	12.257	8.497	6.680	4.434	2.969	2.354	1.592	1.094	0.684	0.410	0.283	0.215	0.088	0.029	0.020	0.020	0.020	0.010	0.010				
2		60.507	60.322	51.296	35.140	24.163	17.258	13.175	8.390	5.684	4.405	2.911	1.836	1.455	0.947	0.645	0.352	0.176	0.088	0.049											
3		52.644	52.458	43.432	28.938	19.436	13.879	10.480	6.651	4.376	3.262	2.129	1.299	1.006	0.654	0.420	0.186	0.059	0.029	0.020											
3		47.066	46.881	37.855	24.592	16.213	11.466	8.438	5.206	3.223	2.285	1.475	0.918	0.654	0.430	0.303	0.098	0.020	0.010												
3		42.338	42.153	33.128	20.930	13.547	9.513	6.856	4.112	2.315	1.572	1.035	0.576	0.400	0.254	0.166															
4		38.695	38.509	29.485	18.274	11.652	8.067	5.684	3.321	1.778	1.240	0.811	0.420	0.293	0.176	0.088															
5		36.048	35.862	26.839	16.272	10.206	6.944	4.795	2.627	1.377	0.899	0.615	0.322	0.234	0.137	0.078															
5		33.812	33.626	24.602	14.582	8.985	5.938	4.024	1.992	1.006	0.615	0.440	0.215	0.166	0.078	0.020															
6		32.005	31.819	22.795	13.156	8.018	5.108	3.418	1.543	0.791	0.518	0.342	0.186	0.137	0.078																
7		30.364	30.179	21.155	11.779	7.052	4.405	2.842	1.113	0.557	0.352	0.215	0.117	0.098	0.039																
7		28.977	28.792	19.768	10.724	6.397	3.956	2.510	0.977	0.479	0.303	0.176	0.117	0.098	0.039																
8		27.639	27.454	18.430	9.767	5.762	3.506	2.168	0.781	0.391	0.254	0.147	0.107	0.088	0.029																
9		26.497	26.311	17.287	9.044	5.264	3.164	1.885	0.664	0.322	0.186	0.127	0.088	0.068	0.020																
9		25.491	25.305	16.281	8.351	4.825	2.823	1.612	0.537	0.234	0.117	0.068	0.029	0.010																	
10		24.758	24.573	15.549	7.813	4.522	2.637	1.445	0.459	0.215	0.098	0.049	0.010																		
11		24.163	23.977	14.953	7.364	4.229	2.461	1.338	0.410	0.186	0.068	0.020																			
11		23.694	23.508	14.484	6.973	3.926	2.354	1.260	0.371	0.156	0.049																				
12		23.206	23.020	13.996	6.641	3.633	2.246	1.182	0.293	0.078	0.020																				
13		22.737	22.551	13.527	6.378	3.418	2.119	1.084	0.254	0.039	0.020																				
13		22.229	22.044	13.019	6.085	3.194	1.973	0.967	0.205	0.039	0.020																				
14		21.829	21.643	12.619	5.889	3.028	1.826	0.840	0.195	0.039	0.020																				
15		21.194	21.008	11.984	5.528	2.774	1.641	0.762	0.186	0.039	0.020																				
15		20.627	20.442	11.417	5.167	2.569	1.485	0.713	0.147	0.039	0.020																				
16		20.227	20.041	11.017	4.922	2.383	1.338	0.596	0.117	0.020																					
17		19.749	19.563	10.538	4.600	2.129	1.192	0.527	0.107	0.010																					
17		19.338	19.153	10.128	4.297	1.895	1.026	0.420	0.059																						
18		19.065	18.879	9.855	4.092	1.748	0.918	0.420	0.059																						
19		18.743	18.557	9.532	3.887	1.582	0.801	0.342	0.029																						
19		18.538	18.352	9.327	3.848	1.563	0.781	0.322	0.010																						
20		18.293	18.108	9.083	3.711	1.494	0.742	0.303	0.010																						
21		18.078	17.893	8.868	3.584	1.445	0.713	0.303	0.010																						
21		17.951	17.766	8.741	3.516	1.397	0.693	0.293	0.010																						
22		17.834	17.649	8.624	3.409	1.328	0.645	0.254	0.010																						
23		17.717	17.532	8.507	3.291	1.250	0.596	0.225	0.010																						
23		17.522	17.336	8.311	3.125	1.104	0.479	0.186	0.010																						
24		17.248	17.063	8.038	2.959	0.986	0.361	0.176	0.010																						
25		17.033	16.848	7.823	2.813	0.899	0.293	0.176	0.010																						
25		16.955	16.770	7.745	2.774	0.879	0.273	0.166																							
26		16.789	16.604	7.579	2.666	0.801	0.205	0.137																							
27		16.604	16.418	7.393	2.530	0.723	0.166	0.098																							
27		16.408	16.223	7.198	2.373	0.615	0.127	0.059																							
28		16.184	15.998	6.973	2.188	0.498	0.107	0.039																							
29		16.076	15.891	6.866	2.119	0.459	0.107	0.039																							
29		15.988	15.803	6.778	2.051	0.420	0.098	0.039																							
30		15.813	15.627	6.602	1.895	0.342	0.020																								
31		15.773	15.588	6.563	1.856	0.332	0.020																								
31		15.695	15.510	6.485	1.817	0.322	0.020																								
32		15.578	15.393	6.368	1.729	0.303																									
33		15.490	15.305	6.280	1.670	0.303																									
33		15.324	15.139	6.114	1.563	0.264																									
34		15.187	15.002	5.977	1.485	0.234																									
35		15.080	14.894	5.870	1.416	0.234																									
35		15.002	14.816	5.792	1.377	0.234																									
36		15.002	14.816	5.792	1.377	0.234																									
37		15.002	14.816	5.792	1.377	0.234																									
37		15.002	14.816	5.792	1.377	0.234																									
38		14.924	14.738	5.714	1.328	0.215																									
39		14.826	14.640	5.616	1.309	0.195																									
39		14.797	14.611	5.587	1.299	0.186																									
40		14.787	14.601	5.577	1.289	0.176																									
41		14.719	14.533	5.508	1.240	0.176																									
41		14.670	14.484	5.460	1.231	0.176																									
42		14.611	14.426	5.401	1.211	0.176																									

Wave Buoy / WaveNetData
Serial No.: 0000

[illegible]

Wave Buoy / WaveNetData
Serial No.: 0000

Deployed: 2002 Recovered: 2011

Job No: J/1/01/1743

Wave Buoy / WaveNetData
Serial No.: 0000

[illegible]

Wave Buoy / WaveNetData
Serial No.: 0000

Job No: J/1/01/1743

Wave Buoy / WaveNetData
Serial No.: 0000

[illegible]

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m

Wave Buoy / WaveNetData

Deployed: 2002 Recovered: 2011

Serial No.: 0000

	Percentage Persistence Significant Wave Height (m)																													
hours	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6
1	79.617	79.596	61.859	40.212	27.062	17.885	13.387	7.657	4.648	3.695	2.238	1.424	0.728	0.514	0.268	0.054														
2	66.207	66.186	48.491	29.761	19.577	12.326	9.124	4.991	2.838	2.388	1.307	0.718	0.321	0.246	0.129	0.032														
3	58.838	58.817	41.165	24.460	16.064	10.035	7.443	4.262	2.420	2.024	0.996	0.493	0.236	0.182	0.086	0.011														
3	53.268	53.247	35.640	20.530	13.280	8.171	5.954	3.373	1.938	1.617	0.643	0.257	0.139	0.096	0.043															
4	48.984	48.963	31.399	17.521	11.084	6.833	4.862	2.677	1.489	1.210	0.428	0.214	0.096	0.075	0.043															
4	45.846	45.824	28.304	15.432	9.563	5.847	3.984	2.131	1.157	0.910	0.311	0.161	0.064	0.054	0.021															
5	43.682	43.661	26.184	13.922	8.471	5.087	3.406	1.788	0.975	0.803	0.236	0.118	0.043	0.032																
5	41.851	41.829	24.396	12.551	7.604	4.541	2.977	1.639	0.889	0.728	0.203	0.086	0.043	0.032																
6	40.319	40.298	22.907	11.523	6.972	4.134	2.624	1.510	0.814	0.653	0.171	0.075	0.043	0.032																
7	38.756	38.734	21.376	10.506	6.308	3.759	2.335	1.360	0.685	0.557	0.129	0.064	0.032	0.021																
7	37.331	37.310	19.994	9.574	5.687	3.363	2.013	1.199	0.557	0.450	0.064	0.043																		
8	35.993	35.972	18.699	8.749	5.237	3.106	1.821	1.092	0.503	0.396	0.054	0.032																		
9	35.040	35.018	17.788	8.150	4.798	2.806	1.628	0.910	0.418	0.321	0.032	0.021																		
9	34.301	34.280	17.092	7.786	4.530	2.677	1.564	0.857	0.386	0.289	0.032	0.021																		
10	33.605	33.584	16.407	7.443	4.241	2.517	1.456	0.760	0.289	0.203	0.032	0.021																		
11	32.962	32.941	15.764	7.079	3.952	2.270	1.307	0.653	0.203	0.150	0.011																			
11	32.448	32.427	15.250	6.693	3.652	2.013	1.167	0.557	0.182	0.150	0.011																			
12	31.849	31.827	14.650	6.297	3.395	1.821	1.017	0.460	0.150	0.139																				
13	31.185	31.163	13.986	5.879	3.095	1.574	0.814	0.311	0.096	0.086																				
13	30.617	30.596	13.419	5.537	2.849	1.349	0.632	0.203	0.032	0.021																				
14	30.243	30.221	13.044	5.323	2.763	1.264	0.589	0.193	0.021	0.011																				
15	29.857	29.836	12.658	5.098	2.624	1.124	0.546	0.171	0.011																					
15	29.471	29.450	12.273	4.894	2.495	0.996	0.493	0.150																						
16	29.140	29.118	11.941	4.734	2.367	0.867	0.439	0.139																						
17	28.883	28.861	11.684	4.648	2.335	0.835	0.418	0.129																						
17	28.561	28.540	11.363	4.509	2.303	0.814	0.396	0.129																						
18	28.122	28.101	10.923	4.327	2.238	0.771	0.375	0.118																						
19	27.640	27.619	10.441	4.080	2.099	0.632	0.300	0.072																						
19	27.244	27.223	10.045	3.920	2.003	0.578	0.257	0.032																						
20	27.019	26.998	9.820	3.834	1.971	0.546	0.246	0.021																						
20	26.848	26.827	9.649	3.727	1.938	0.514	0.214	0.021																						
21	26.655	26.634	9.456	3.598	1.853	0.482	0.182	0.021																						
22	26.323	26.302	9.124	3.395	1.724	0.460	0.182	0.021																						
23	25.906	25.884	8.707	3.063	1.456	0.353	0.161																							
23	25.541	25.520	8.342	2.806	1.242	0.300	0.118																							
24	25.145	25.124	7.946	2.538	1.039	0.257	0.075																							
25	24.663	24.642	7.464	2.206	0.857	0.214	0.032																							
25	24.310	24.289	7.111	2.035	0.792	0.203	0.021																							
26	24.085	24.064	6.886	1.938	0.760	0.203	0.021																							
27	23.978	23.957	6.779	1.874	0.739	0.203	0.021																							
27	23.828	23.807	6.629	1.778	0.728	0.203	0.021																							
28	23.496	23.475	6.297	1.521	0.557	0.182	0.021																							
29	23.196	23.175	5.997	1.328	0.460	0.139	0.021																							
29	22.961	22.939	5.762	1.178	0.418	0.096	0.021																							
30	22.768	22.747	5.569	1.060	0.407	0.096	0.021																							
31	22.618	22.597	5.419	0.985	0.386	0.096	0.021																							
31	22.468	22.447	5.269	0.921	0.386	0.096	0.021																							
32	22.361	22.340	5.162	0.900	0.386	0.096	0.021																							
33	22.254	22.233	5.055	0.900	0.386	0.096	0.021																							
33	22.126	22.104	4.926	0.900	0.386	0.096	0.021																							
34	21.922	21.901	4.723	0.867	0.386	0.096	0.021																							
35	21.783	21.761	4.584	0.846	0.375	0.086	0.021																							
35	21.612	21.590	4.412	0.792	0.364	0.075	0.021																							
36	21.526	21.504	4.327	0.750	0.364	0.075	0.021																							
37	21.397	21.376	4.198	0.664	0.300	0.043	0.021																							
37	21.387	21.365	4.187	0.664	0.300	0.043	0.021																							
38	21.387	21.365	4.187	0.664	0.300	0.043	0.021																							
39	21.387	21.365	4.187	0.664	0.300	0.043	0.021																							
39	21.387	21.365	4.187	0.664	0.300	0.043	0.021																							
40	21.376	21.354	4.177	0.653	0.289	0.043	0.021																							
41	21.226	21.205	4.027	0.632	0.268	0.043	0.021																							
41	21.023	21.001	3.823	0.600	0.236	0.043	0.021																							
42	20.883	20.862	3.684	0.589	0.236	0.043	0.021																							
43	20.712	20.691	3.513	0.546	0.236	0.043	0.021																							

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

[illegible]

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m

Wave Buoy / WaveNetData

Deployed: 2002 Recovered: 2011

Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																													
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6
1	70.090	70.090	66.300	55.070	42.626	32.601	26.292	19.984	15.268	12.720	8.968	7.171	5.679	3.854	2.696	1.723	0.825	0.398	0.222	0.083	0.037	0.019								
2	55.895	55.895	52.105	41.968	31.711	23.708	18.927	14.332	10.793	8.986	6.068	4.706	3.697	2.372	1.566	1.019	0.454	0.167	0.111	0.037										
3	48.695	48.695	44.905	35.565	26.700	19.854	15.768	11.840	8.773	7.161	4.614	3.539	2.779	1.631	0.954	0.565	0.269	0.083	0.037											
4	43.599	43.599	39.809	31.082	23.096	17.112	13.600	10.043	7.337	6.003	3.687	2.770	2.085	1.158	0.658	0.389	0.185	0.028												
5	39.642	39.642	35.852	27.635	20.261	14.879	11.822	8.570	6.244	5.012	2.918	2.066	1.547	0.825	0.417	0.232	0.093	0.019												
6	36.307	36.307	32.517	24.847	17.918	12.989	10.367	7.310	5.253	4.113	2.298	1.547	1.149	0.602	0.259	0.139	0.009													
7	33.833	33.833	30.044	22.781	16.222	11.590	9.227	6.291	4.456	3.446	1.834	1.167	0.889	0.398	0.157	0.102														
8	31.915	31.915	28.126	21.021	14.758	10.348	8.190	5.373	3.678	2.798	1.417	0.926	0.704	0.296	0.111	0.083														
9	30.303	30.303	26.514	19.511	13.489	9.301	7.263	4.660	3.085	2.307	1.075	0.649	0.482	0.185	0.093	0.065														
10	28.747	28.747	24.958	18.066	12.313	8.421	6.550	4.104	2.650	2.010	0.899	0.500	0.398	0.148	0.093	0.065														
11	27.200	27.200	23.411	16.639	11.210	7.606	5.920	3.576	2.298	1.751	0.732	0.389	0.334	0.120	0.093	0.065														
12	25.801	25.801	22.012	15.370	10.219	6.856	5.336	3.067	1.936	1.482	0.556	0.287	0.259	0.120	0.093	0.065														
13	24.810	24.810	21.021	14.434	9.515	6.254	4.864	2.733	1.695	1.251	0.435	0.250	0.222	0.111	0.083	0.056														
14	24.004	24.004	20.215	13.628	9.005	5.874	4.567	2.659	1.677	1.241	0.426	0.250	0.222	0.111	0.083	0.056														
15	23.402	23.402	19.613	13.026	8.625	5.642	4.382	2.529	1.593	1.186	0.398	0.241	0.213	0.102	0.074	0.046														
16	22.716	22.716	18.927	12.350	8.106	5.271	4.113	2.298	1.445	1.056	0.343	0.195	0.167	0.083	0.056	0.028														
17	21.985	21.985	18.196	11.645	7.560	4.808	3.761	2.047	1.306	0.945	0.259	0.139	0.111	0.074	0.056															
18	21.308	21.308	17.519	11.062	7.115	4.438	3.456	1.853	1.204	0.880	0.222	0.102	0.074	0.046	0.028															
19	20.632	20.632	16.843	10.469	6.559	4.039	3.104	1.649	1.093	0.769	0.185	0.102	0.074	0.046	0.019															
20	20.021	20.021	16.232	9.913	6.068	3.669	2.752	1.547	1.028	0.704	0.157	0.074	0.046	0.019																
21	19.622	19.622	15.833	9.524	5.744	3.458	2.557	1.464	0.945	0.630	0.148	0.074	0.046																	
22	19.252	19.252	15.463	9.209	5.475	3.289	2.409	1.390	0.899	0.584	0.120	0.056	0.028																	
23	18.863	18.863	15.073	8.903	5.225	3.150	2.288	1.362	0.871	0.565	0.102	0.056	0.028																	
24	18.409	18.409	14.619	8.523	4.901	2.909	2.066	1.251	0.797	0.510	0.083	0.037	0.009																	
25	17.946	17.946	14.156	8.134	4.604	2.733	1.918	1.177	0.741	0.463	0.065	0.019	0.009																	
26	17.621	17.621	13.832	7.875	4.391	2.566	1.788	1.075	0.658	0.398	0.065	0.019	0.009																	
27	17.288	17.288	13.498	7.541	4.123	2.362	1.658	1.001	0.611	0.361	0.065	0.019	0.009																	
28	17.010	17.010	13.221	7.263	3.882	2.205	1.556	0.945	0.556	0.324	0.065	0.019	0.009																	
29	16.723	16.723	12.953	6.976	3.632	2.057	1.464	0.889	0.519	0.287	0.065	0.019	0.009																	
30	16.389	16.389	12.600	6.689	3.391	1.881	1.371	0.825	0.491	0.269	0.056	0.009																		
31	16.074	16.074	12.285	6.467	3.252	1.788	1.316	0.797	0.491	0.269	0.056	0.009																		
32	15.759	15.759	11.970	6.216	3.131	1.677	1.251	0.750	0.445	0.222	0.037																			
33	15.370	15.370	11.581	5.901	2.946	1.547	1.158	0.686	0.380	0.157	0.009																			
34	15.157	15.157	11.368	5.716	2.835	1.436	1.075	0.630	0.324	0.111	0.009																			
35	14.999	14.999	11.210	5.605	2.761	1.362	1.028	0.584	0.278	0.083	0.009																			
36	14.796	14.796	11.006	5.438	2.631	1.251	0.954	0.510	0.204	0.056																				
37	14.610	14.610	10.821	5.290	2.557	1.186	0.889	0.445	0.139	0.037																				
38	14.295	14.295	10.506	5.012	2.372	1.047	0.750	0.334	0.093	0.009																				
39	14.110	14.110	10.321	4.855	2.298	1.010	0.713	0.296	0.093	0.009																				
40	13.943	13.943	10.154	4.706	2.205	0.973	0.676	0.259	0.065	0.009																				
41	13.702	13.702	9.913	4.493	2.066	0.880	0.584	0.204	0.046	0.009																				
42	13.508	13.508	9.718	4.345	2.001	0.825	0.528	0.185	0.046	0.009																				
43	13.258	13.258	9.468	4.151	1.936	0.787	0.510	0.185	0.046	0.009																				
44	13.072	13.072	9.283	4.012	1.853	0.741	0.500	0.176	0.046	0.009																				
45	12.896	12.896	9.107	3.873	1.779	0.676	0.454	0.139	0.037																					
46	12.757	12.757	8.968	3.771	1.751	0.649	0.435	0.139	0.037																					
47	12.637	12.637	8.848	3.687	1.742	0.639	0.435	0.139	0.037																					
48	12.470	12.470	8.681	3.558	1.686	0.630	0.435	0.139	0.037																					
49	12.285	12.285	8.495	3.419	1.584	0.593	0.408	0.139	0.037																					
50	12.118	12.118	8.329	3.298	1.501	0.547	0.361	0.111	0.037																					
51	11.896	11.896	8.106	3.168	1.408	0.500	0.324	0.102	0.037																					
52	11.757	11.757	7.967	3.094	1.371	0.500	0.324	0.102	0.037																					
53	11.645	11.645	7.856	3.011	1.316	0.482	0.306	0.102	0.037																					
54	11.608	11.608	7.819	3.011	1.316	0.482	0.306	0.102	0.037																					
55	11.497	11.497	7.708	2.946	1.260	0.482	0.306	0.102	0.037																					
56	11.340	11.340	7.551	2.826	1.186	0.445	0.306	0.102	0.037																					
57	11.247	11.247	7.458	2.752	1.149	0.408	0.287	0.102	0.037																					
58	11.182	11.182	7.393	2.7																										

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

hours	Percentage Persistence Significant Wave Height (m)																													
	>0.2	>0.4	>0.6	>0.8	>1	>1.2	>1.4	>1.6	>1.8	>2	>2.2	>2.4	>2.6	>2.8	>3	>3.2	>3.4	>3.6	>3.8	>4	>4.2	>4.4	>4.6	>4.8	>5	>5.2	>5.4	>5.6	>5.8	>6
1	71.129	70.643	66.380	52.282	39.274	28.995	23.989	17.893	14.463	12.451	8.654	6.404	4.857	3.638	2.498	1.655	0.932	0.347	0.149	0.069	0.059	0.030								
2	56.585	56.099	51.885	39.125	28.360	20.401	16.763	12.441	9.863	8.376	5.740	4.233	3.251	2.330	1.576	1.001	0.466	0.119	0.079											
3	48.901	48.415	44.281	32.464	22.998	16.446	13.452	10.032	7.881	6.642	4.401	3.192	2.458	1.646	1.011	0.625	0.208	0.040	0.030											
4	43.299	42.814	38.729	27.677	19.083	13.551	11.033	8.109	6.334	5.333	3.460	2.399	1.824	1.130	0.615	0.317	0.059													
5	38.858	38.372	34.288	23.910	16.019	11.301	9.140	6.533	5.066	4.163	2.726	1.824	1.368	0.813	0.397	0.159	0.040													
6	35.606	35.121	31.037	21.194	13.977	9.754	7.811	5.482	4.223	3.420	2.290	1.467	1.071	0.595	0.258	0.109	0.010													
7	32.980	32.494	28.410	19.033	12.272	8.525	6.761	4.639	3.579	2.825	1.814	1.120	0.823	0.406	0.198	0.079														
8	31.156	30.670	26.586	17.556	11.152	7.683	6.067	4.054	3.113	2.498	1.576	0.981	0.724	0.327	0.139	0.020														
9	29.738	29.253	25.169	16.386	10.240	7.008	5.541	3.727	2.855	2.300	1.437	0.862	0.654	0.258	0.089															
10	28.479	27.994	23.910	15.316	9.338	6.384	5.095	3.380	2.508	2.032	1.239	0.704	0.515	0.139	0.020															
11	27.300	26.814	22.730	14.304	8.535	5.819	4.659	3.053	2.250	1.854	1.110	0.634	0.466	0.099																
12	26.190	25.704	21.620	13.402	7.801	5.343	4.223	2.756	2.002	1.655	0.971	0.535	0.397	0.079																
13	24.961	24.475	20.391	12.332	6.939	4.748	3.707	2.399	1.715	1.418	0.823	0.416	0.278	0.050																
14	24.039	23.553	19.469	11.539	6.344	4.382	3.390	2.191	1.576	1.299	0.734	0.357	0.228	0.050																
15	23.246	22.760	18.676	10.865	5.898	4.074	3.113	1.993	1.408	1.150	0.605	0.287	0.169	0.020																
16	22.532	22.046	17.963	10.260	5.442	3.717	2.835	1.765	1.219	0.981	0.456	0.208	0.119																	
17	21.957	21.472	17.388	9.814	5.135	3.499	2.647	1.636	1.150	0.922	0.397	0.178	0.109																	
18	21.263	20.778	16.694	9.249	4.729	3.261	2.449	1.507	1.100	0.872	0.387	0.178	0.109																	
19	20.708	20.223	16.138	8.832	4.461	3.083	2.330	1.418	1.031	0.813	0.367	0.178	0.109																	
20	20.203	19.717	15.633	8.416	4.193	2.895	2.211	1.338	0.971	0.773	0.357	0.169	0.099																	
21	19.767	19.281	15.197	8.059	4.015	2.776	2.102	1.249	0.882	0.694	0.297	0.129	0.069																	
22	19.420	18.934	14.850	7.811	3.896	2.677	2.032	1.180	0.813	0.634	0.248	0.089	0.050																	
23	18.865	18.379	14.295	7.375	3.717	2.548	1.953	1.100	0.734	0.555	0.208	0.050	0.030																	
24	18.349	17.863	13.779	6.989	3.529	2.409	1.874	1.041	0.674	0.515	0.169	0.020	0.010																	
25	17.883	17.397	13.313	6.671	3.361	2.320	1.784	0.952	0.605	0.446	0.129																			
26	17.546	17.064	12.976	6.443	3.232	2.280	1.755	0.922	0.575	0.426	0.119																			
27	17.100	16.614	12.530	6.057	2.974	2.151	1.646	0.862	0.555	0.426	0.119																			
28	16.882	16.396	12.312	5.849	2.805	2.022	1.517	0.793	0.565	0.426	0.119																			
29	16.753	16.267	12.183	5.740	2.756	1.973	1.467	0.773	0.565	0.426	0.119																			
30	16.585	16.099	12.015	5.611	2.686	1.903	1.418	0.753	0.545	0.406	0.099																			
31	16.317	15.831	11.747	5.452	2.607	1.834	1.348	0.734	0.525	0.387	0.089																			
32	16.138	15.653	11.568	5.353	2.508	1.745	1.279	0.724	0.515	0.377	0.089																			
33	15.831	15.345	11.261	5.145	2.300	1.566	1.150	0.664	0.456	0.347	0.059																			
34	15.554	15.068	10.984	4.877	2.151	1.497	1.100	0.634	0.426	0.327	0.040																			
35	15.306	14.820	10.736	4.659	2.022	1.408	1.031	0.565	0.357	0.287																				
36	15.107	14.622	10.537	4.510	1.953	1.338	0.991	0.525	0.317	0.268																				
37	14.879	14.394	10.309	4.342	1.903	1.309	0.962	0.496	0.287	0.238																				
38	14.651	14.166	10.081	4.173	1.844	1.289	0.942	0.476	0.268	0.218																				
39	14.423	13.938	9.853	4.025	1.804	1.269	0.922	0.456	0.248	0.198																				
40	14.186	13.700	9.615	3.817	1.784	1.249	0.902	0.436	0.228	0.198																				
41	14.027	13.541	9.457	3.658	1.745	1.239	0.892	0.426	0.218	0.198																				
42	13.918	13.432	9.348	3.559	1.705	1.239	0.892	0.426	0.218	0.198																				
43	13.720	13.234	9.150	3.410	1.636	1.190	0.843	0.377	0.169	0.159																				
44	13.541	13.055	8.971	3.281	1.546	1.130	0.783	0.337	0.149	0.139																				
45	13.293	12.808	8.723	3.083	1.418	1.041	0.694	0.297	0.109	0.099																				
46	13.036	12.550	8.466	2.914	1.328	1.001	0.654	0.297	0.109	0.099																				
47	12.728	12.243	8.158	2.805	1.269	0.981	0.634	0.297	0.109	0.099																				
48	12.421	11.935	7.851	2.706	1.239	0.952	0.605	0.268	0.109	0.099																				
49	12.183	11.697	7.613	2.587	1.170	0.882	0.535	0.238	0.109	0.099																				
50	11.925	11.440	7.355	2.449	1.100	0.813	0.466	0.228	0.099	0.089																				
51	11.658	11.172	7.088	2.310	0.981	0.694	0.347	0.188	0.059	0.050																				
52	11.430	10.944	6.860	2.191	0.942	0.664	0.337	0.178	0.050	0.040																				
53	11.182	10.696	6.612	2.082	0.902	0.625	0.337	0.178	0.050	0.040																				
54	10.984	10.498	6.414	2.002	0.853	0.585	0.337	0.178	0.050	0.040																				
55	10.785	10.300	6.215	1.943	0.793	0.545	0.337	0.178	0.050	0.040																				
56	10.646	10.161	6.077	1.874	0.743	0.496	0.317	0.159	0.040	0.040																				
57	10.567	10.081	5.997	1.814	0.684	0.466	0.287	0.129	0.040	0.040																				
58	10.518	10.032	5.948	1.765	0.644	0.426	0.268	0.129	0.040	0.040																				
59	10.339</																													

Frequency Table for Month 1

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 1

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	235																														235	2.69
<2																															0	0.00
<3		113	385	178	9																										685	7.83
<4	2	140	676	841	836	608	552	213	34	6																					3908	44.65
<5		59	126	128	132	131	258	464	406	482	215	138	70	14																	2623	29.97
<6	1	3	30	18	10	16	18	15	35	104	113	159	191	196	172	74	59	16	9	4	1	1									1245	14.23
<7			3	1							1	2			1	3	9	3	4	6	7	6	2	4	2	2					56	0.64
<8																															0	0.00
																															8752	100.00
Count	238	315	1220	1166	987	755	828	692	475	592	329	299	261	210	173	77	68	19	13	10	8	7	2	4	2	2	0	0	0	0	8752	
%	2.72	3.60	13.94	13.32	11.28	8.63	9.46	7.91	5.43	6.76	3.76	3.42	2.98	2.40	1.98	0.88	0.78	0.22	0.15	0.11	0.09	0.08	0.02	0.05	0.02	0.02	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 2

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 2

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	200	2	1																												203	2.32
<2																															0	0.00
<3		171	476	198	21																										866	9.89
<4		515	895	1230	980	443	487	169	26	6																					4751	54.28
<5		176	121	119	107	108	302	361	290	368	157	81	39	13																	2242	25.62
<6		8	11	19	19	18	29	16	14	52	58	92	90	102	73	44	22	12	4	1											684	7.82
<7																3	1	1	1												6	0.07
<8																															0	0.00
																															8752	100.00
Count	200	872	1504	1566	1127	569	818	546	330	426	215	173	129	115	73	47	23	13	5	1	0	0	0	0	0	0	0	0	0	0	8752	
%	2.29	9.96	17.18	17.89	12.88	6.50	9.35	6.24	3.77	4.87	2.46	1.98	1.47	1.31	0.83	0.54	0.26	0.15	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Frequency Table for Month 3

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 3

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	2	5	5																												12	0.12
<2																															0	0.00
<3		192	492	193	10																										887	8.66
<4	9	482	1324	1283	941	681	648	197	73	9																					5647	55.16
<5	7	210	260	229	168	147	341	387	269	354	153	79	47	7																	2658	25.96
<6		35	89	26	19	4	15	26	24	57	104	111	111	101	79	72	43	17	17	5	3										958	9.36
<7	1		6		3								1	2	5		9	6	14	8	9	6	1	1			3	1			76	0.74
<8																															0	0.00
																															10238	100.00
Count	19	924	2176	1731	1141	832	1004	610	366	420	257	190	159	110	84	72	52	23	31	13	12	6	1	1	0	3	1	0	0	0	10238	
%	0.19	9.03	21.25	16.91	11.14	8.13	9.81	5.96	3.57	4.10	2.51	1.86	1.55	1.07	0.82	0.70	0.51	0.22	0.30	0.13	0.12	0.06	0.01	0.01	0.00	0.03	0.01	0.00	0.00	0.00	100.00	

Frequency Table for Month 4

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 4

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1		6	2																												8	0.08
<2																															0	0.00
<3		363	900	274	26																										1563	15.82
<4	4	1506	1644	1265	825	431	399	82	16	2																					6174	62.48
<5		428	315	105	86	98	254	196	111	145	56	26	14																		1834	18.56
<6		58	73	24	6	6	2	3	4	13	25	33	24	19	10	2															302	3.06
<7																															0	0.00
<8																															0	0.00
Count	4	2361	2934	1668	943	535	655	281	131	160	81	59	38	19	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	9881		
%	0.04	23.89	29.69	16.88	9.54	5.41	6.63	2.84	1.33	1.62	0.82	0.60	0.38	0.19	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 5
Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings
Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Table A 071
Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 5

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1		6	4																												10	0.10
<2																															0	0.00
<3			312	526	254	7																									1099	10.53
<4	4	1454	1554	1311	1026	628	441	90	25	2																					6535	62.64
<5	2	392	263	142	131	201	290	263	193	272	112	53	10	5																	2329	22.33
<6		37	65	14	13	16	8	2	1	27	48	65	63	35	17	29	10	4	2												456	4.37
<7			1														1		1												3	0.03
<8																															0	0.00
																															10432	100.00
Count	6	2201	2413	1721	1177	845	739	355	219	301	160	118	73	40	17	29	11	4	3	0	0	0	0	0	0	0	0	0	0	0	10432	
%	0.06	21.10	23.13	16.50	11.28	8.10	7.08	3.40	2.10	2.89	1.53	1.13	0.70	0.38	0.16	0.28	0.11	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 6

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 6

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	47	3	4																												54	0.33
<2																															0	0.00
<3	1	448	1064	326	27																										1866	11.56
<4	2	1260	1949	2095	1566	847	684	204	41	3																					8651	53.60
<5	1	261	401	184	171	263	491	518	350	555	303	216	84	12																	3809	23.60
<6		43	53	14	12	7	27	54	61	121	154	178	200	224	191	143	127	52	42	2	3										1708	10.58
<7		1	3														6	3	14	3	7	11	3								51	0.32
<8																															0	0.00
Count	50	2016	3474	2619	1776	1117	1202	776	452	679	457	394	284	236	191	143	133	55	56	5	10	11	3	0	0	0	0	0	0	0	16139	
%	0.31	12.49	21.52	16.23	11.00	6.92	7.45	4.81	2.80	4.21	2.83	2.44	1.76	1.46	1.18	0.89	0.82	0.34	0.35	0.03	0.06	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	99.99		

Frequency Table for Month 7

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 7

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	1	6	2																												9	0.08
<2																															0	0.00
<3		454	977	280	26																										1737	15.66
<4	6	1239	1789	1506	1075	534	391	104	18	2																					6664	60.06
<5	6	333	389	167	175	177	304	219	155	231	71	23	6	1																	2257	20.34
<6	5	37	68	13	11	5	7	11	16	38	56	45	47	37	19	7	3														425	3.83
<7		1	2																												3	0.03
<8																															0	0.00
																															11095	100.00
Count	18	2070	3227	1966	1287	716	702	334	189	271	127	68	53	38	19	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	11095	
%	0.16	18.66	29.09	17.72	11.60	6.45	6.33	3.01	1.70	2.44	1.14	0.61	0.48	0.34	0.17	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 8

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 8

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	1	2																													3	0.03
<2																															0	0.00
<3			359	901	349	19																									1628	14.95
<4	2	1154	1727	1687	1185	692	461	139	26	4																					7077	64.97
<5	11	197	267	185	160	187	273	236	144	138	74	37	21	1																	1931	17.73
<6	5	6	28	8		6	4	5	6	24	28	19	35	40	13	4	7	4	4												246	2.26
<7			3	1										1		1	1		1												8	0.07
<8																															0	0.00
																															10893	100.00
Count	19	1718	2926	2230	1364	885	738	380	176	166	102	56	56	42	13	5	8	4	5	0	0	0	0	0	0	0	0	0	0	0	10893	
%	0.17	15.77	26.86	20.47	12.52	8.12	6.77	3.49	1.62	1.52	0.94	0.51	0.51	0.39	0.12	0.05	0.07	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 9																														Count	%	
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6		
<1		2	2																												4	0.04
<2																															0	0.00
<3		398	861	312	16																										1587	17.00
<4	2	1054	1321	1164	886	515	458	118	8																						5526	59.18
<5		201	164	89	103	117	276	316	166	191	103	63	22	4																	1815	19.44
<6		4	5	1	2	4	6	11	25	33	51	79	62	46	43	22	9	1													404	4.33
<7																1															1	0.01
<8																															0	0.00
Count	2	1659	2353	1566	1007	636	740	445	199	224	154	142	84	50	43	23	9	1	0	0	0	0	0	0	0	0	0	0	0	0	9337	
%	0.02	17.77	25.20	16.77	10.79	6.81	7.93	4.77	2.13	2.40	1.65	1.52	0.90	0.54	0.46	0.25	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 10

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 10

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1		2		2																											4	0.04
<2																															0	0.00
<3		154	531	189	19																										893	8.41
<4		391	1149	1562	1340	797	752	228	36	2																					6257	58.93
<5		62	164	142	132	187	374	527	421	418	179	121	44	3																	2774	26.13
<6		9	53	14	13	12	28	8	22	41	43	67	108	103	75	39	30	9	7												681	6.41
<7				2											2	3	1														8	0.08
<8																															0	0.00
Count	0	618	1897	1911	1504	996	1154	763	479	461	222	188	152	106	77	42	31	9	7	0	0	0	0	0	0	0	0	0	0	0	10617	
%	0.00	5.82	17.87	18.00	14.17	9.38	10.87	7.19	4.51	4.34	2.09	1.77	1.43	1.00	0.73	0.40	0.29	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 11

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 11

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%	
<1			1					1																								2	0.02
<2																																0	0.00
<3		115	484	192	16																											807	7.48
<4		251	744	1287	1057	839	572	195	31	3																						4979	46.13
<5		40	114	140	149	178	436	595	447	580	285	189	121	24																		3298	30.56
<6		3	12	12	13	3	26	34	32	105	98	171	257	254	228	197	120	48	40	9	2	2										1666	15.44
<7											1	1				1	2	2	11	7	3	9	2	2								41	0.38
<8																																0	0.00
Count	0	409	1355	1631	1235	1020	1034	825	510	688	384	361	378	278	228	198	122	50	51	16	5	11	2	2	0	0	0	0	0	0	10793		
%	0.00	3.79	12.55	15.11	11.44	9.45	9.58	7.64	4.73	6.37	3.56	3.34	3.50	2.58	2.11	1.83	1.13	0.46	0.47	0.15	0.05	0.10	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Frequency Table for Month 12

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

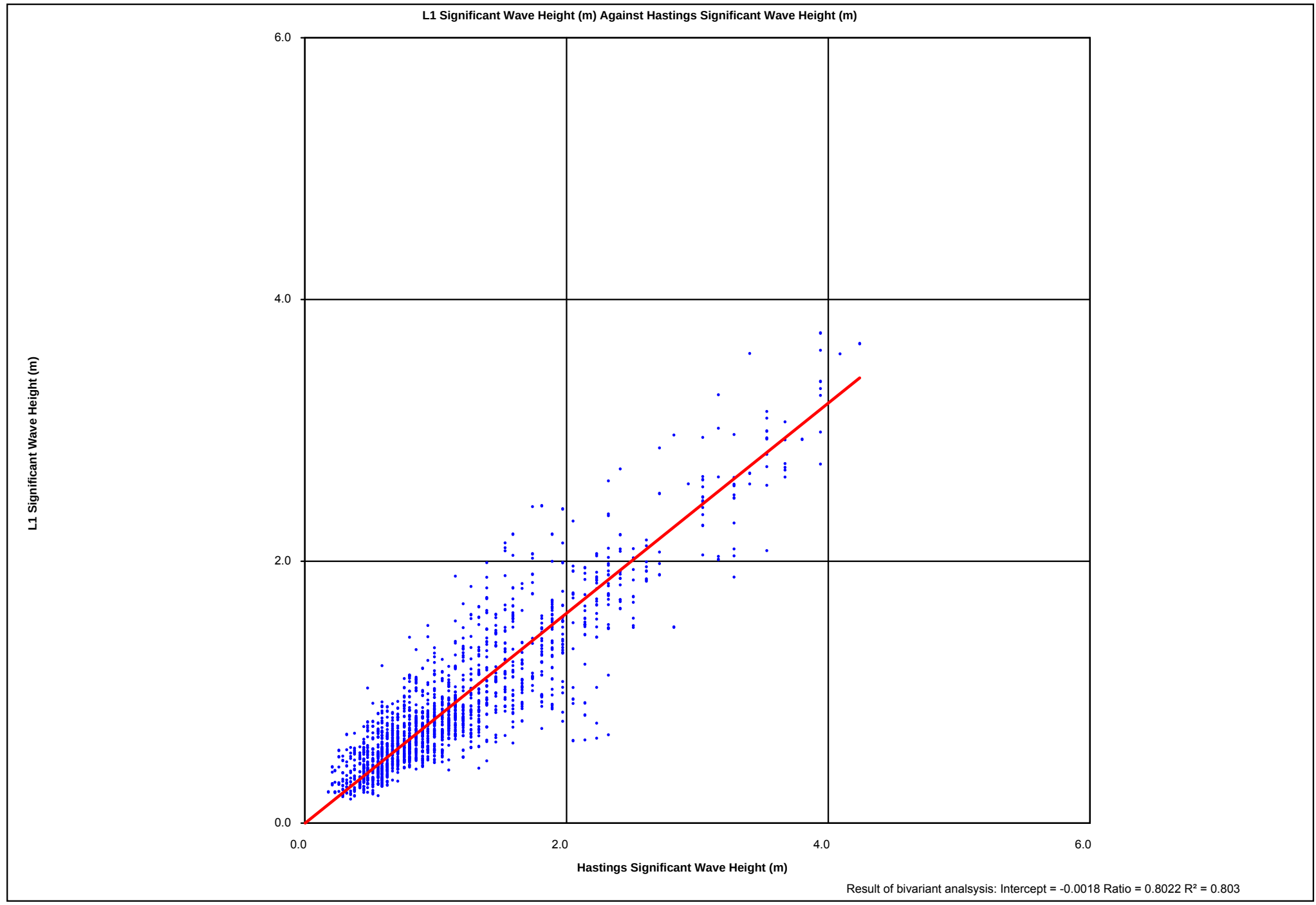
Wave Buoy / WaveNetData
Serial No.: 0000

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s) for Month 12

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<4.6	<4.8	<5	<5.2	<5.4	<5.6	<5.8	<6	Count	%
<1	47	1	2																												50	0.50
<2																															0	0.00
<3	1	114	566	209	21																										911	9.03
<4	1	262	835	1288	1061	616	537	131	36	3																					4770	47.29
<5		53	141	108	115	177	356	384	300	516	286	203	84	12																	2735	27.11
<6		5	25	7	12	6	21	49	55	117	148	162	188	222	190	141	127	52	42	2	3										1574	15.60
<7																	6	3	14	3	7	11	3								47	0.47
<8																															0	0.00
																															10087	100.00
Count	49	435	1569	1612	1209	799	914	564	391	636	434	365	272	234	190	141	133	55	56	5	10	11	3	0	0	0	0	0	0	0	10087	
%	0.49	4.31	15.55	15.98	11.99	7.92	9.06	5.59	3.88	6.31	4.30	3.62	2.70	2.32	1.88	1.40	1.32	0.55	0.56	0.05	0.10	0.11	0.03	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

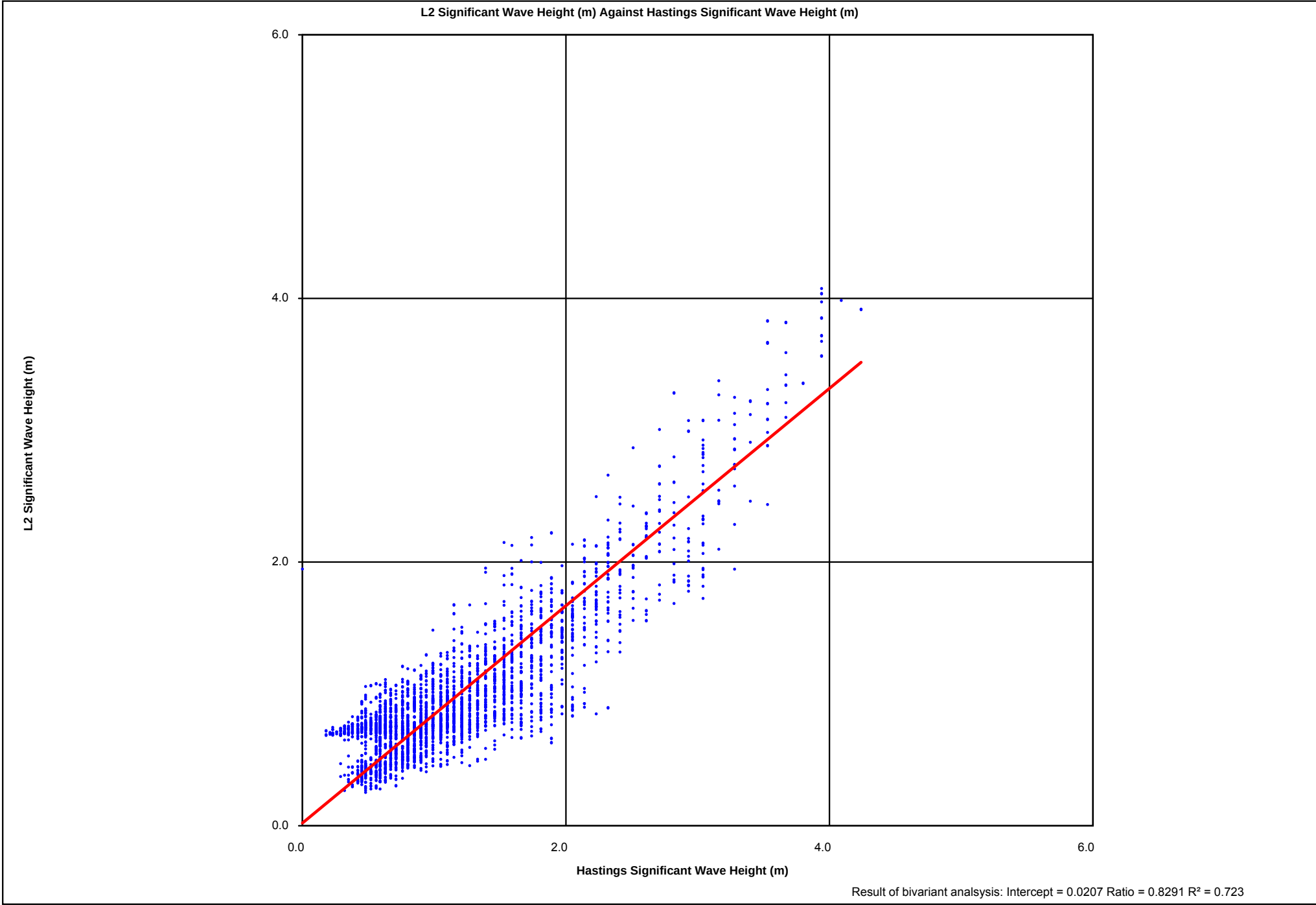
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2
Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194



Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 2, Deployments 1 - 2
Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

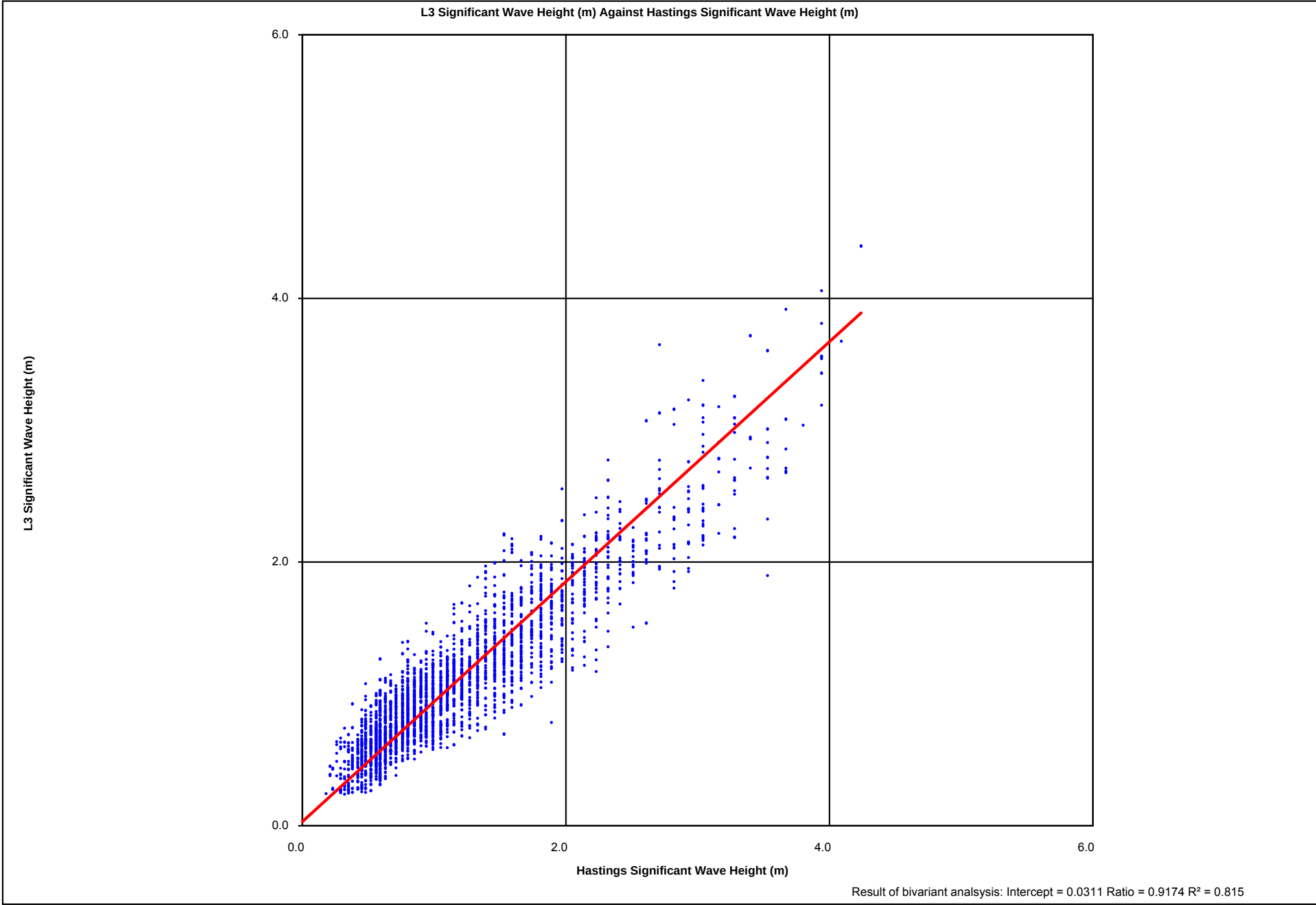
Current Meter / AWAC
Serial No.: 0720



Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Directional Wave Spectral Analysis

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s)																							Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4		
<1																							0	0.000
<2																							0	0.000
<3		15	14																				29	1.890
<4	1	99	234	224	101	6	1																666	43.416
<5		45	65	90	104	83	36	19	11														453	29.531
<6		5	38	12	15	35	32	49	31	37	18	4	5	1	2								284	18.514
<7		5	11	4	6	4	4	1	4	4	6	5	11	12	9	4	4	2	3				99	6.454
<8			2	1																			3	0.196
<9																							0	0.000
<10																							0	0.000
<11																							0	0.000
Count	1	169	364	331	226	128	73	69	46	41	24	9	16	13	11	4	4	2	3	0	0	0	1534	
%	0.065	11.017	23.729	21.578	14.733	8.344	4.759	4.498	2.999	2.673	1.565	0.587	1.043	0.847	0.717	0.261	0.261	0.130	0.196	0.000	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Significant Wave Height (m) against Peak Period (sec)																								
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	Count	%
<1																							0	0.000
<2		3	1																				4	0.261
<3		58	153	79	13	1																	304	19.817
<4	1	36	70	140	81	19	2																349	22.751
<5		21	56	60	79	37	16	2	1		1												273	17.797
<6		5	17	27	37	50	32	36	16	2	1		2										225	14.668
<7		3	4	4	6	8	12	23	25	21	11	3	8	1	3								132	8.605
<8		8	16	2	2	2	8	4	4	17	10	5	3	9	3	3	2			1			99	6.454
<9		3	13	3	2	4	1	2		1		1	1		3		2	2		2			40	2.608
<10		5	7	12	5	2	1	2			1		2	3	2	1							43	2.803
<11		4	9	3		3																	19	1.239
<12		1	10	1	1	2	1																16	1.043
<13		8	6																				14	0.913
<14																							0	0.000
<15		7	1																				8	0.522
<16		6	1																				7	0.456
<17																							0	0.000
<18																							0	0.000
<19		1																					1	0.065
<20																							0	0.000
Count	1	169	364	331	226	128	73	69	46	41	24	9	16	13	11	4	4	2	3	0	0	0	1534	100
%	0.065	11.017	23.729	21.578	14.733	8.344	4.759	4.498	2.999	2.673	1.565	0.587	1.043	0.847	0.717	0.261	0.261	0.130	0.196	0.000	0.000	0.000	100	

Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployments 1 - 2

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Current Meter / AWAC
Serial No.: 0720

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s)																							Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4		
<1																							0	0.000
<2																							0	0.000
<3		13	7	23	1																		44	1.694
<4		42	223	419	126	29	4	2	4														849	32.692
<5		14	60	296	326	193	102	89	47	29	21	11	11	2	2	1	1						1205	46.400
<6		8	21	75	89	70	33	34	32	24	19	10	4		1								420	16.173
<7			2	1		1	1	1	5	7	3	4	3	7	10	7	9	3	3	5	1		73	2.811
<8															1	1	1		1	1	1		6	0.231
<9																							0	0.000
<10																							0	0.000
<11																							0	0.000
Count	0	77	313	814	542	293	140	126	88	60	43	25	18	9	14	9	11	3	4	6	2	0	2597	
%	0.000	2.965	12.052	31.344	20.870	11.282	5.391	4.852	3.389	2.310	1.656	0.963	0.693	0.347	0.539	0.347	0.424	0.116	0.154	0.231	0.077	0.000	100	

Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployments 1 - 2

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Current Meter / AWAC
Serial No.: 0720

Frequency Distribution of Significant Wave Height (m) against Peak Period (sec)																							Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4		
<1																							0	0.000
<2		7																					7	0.270
<3		33	137	58	7	1							1										236	9.087
<4		11	74	178	112	56	28	16	16	6	2		10										500	19.253
<5		5	36	190	219	103	65	65	32	24	18	11	10	2	2	1	1						784	30.189
<6		2	8	123	131	93	31	22	10	7	4												431	16.596
<7		2	15	116	39	21	11	15	24	14	11	9	1	2	3								283	10.897
<8		5	11	60	12	9	4	6	5	9	7	5	6	4	4	4	8	2	1	4	2		168	6.469
<9		3	5	42	13	3	1	1							4	1	1	1	2	1			78	3.003
<10		8	19	23	4	3		1	1		1			1	1	3	1		1	1			68	2.618
<11		1	5	21	4	4																	35	1.348
<12			3	3																			6	0.231
<13					1																		1	0.039
<14																							0	0.000
<15																							0	0.000
<16																							0	0.000
<17																							0	0.000
<18																							0	0.000
<19																							0	0.000
<20																							0	0.000
Count	0	77	313	814	542	293	140	126	88	60	43	25	18	9	14	9	11	3	4	6	2	0	2597	
%	0.000	2.965	12.052	31.344	20.870	11.282	5.391	4.852	3.389	2.310	1.656	0.963	0.693	0.347	0.539	0.347	0.424	0.116	0.154	0.231	0.077	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Significant Wave Height (m) against Zero Up Crossing Period (s)																							Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4		
<1																							0	0.000
<2																							0	0.000
<3		91	178	203	100	3																	575	12.646
<4		167	484	633	460	301	70	11															2126	46.756
<5		77	156	160	168	286	234	121	70	24	9	1											1306	28.722
<6		11	20	21	10	15	33	52	81	88	75	30	13	7	1	3							460	10.117
<7					1	1			1	3	4	6	16	13	8	11	3	4	4	2		1	78	1.715
<8					1																1		2	0.044
<9																							0	0.000
<10																							0	0.000
<11																							0	0.000
Count	0	346	838	1017	740	606	337	184	152	115	88	37	29	20	9	14	3	4	4	2	1	1	4547	
%	0.000	7.609	18.430	22.366	16.274	13.327	7.411	4.047	3.343	2.529	1.935	0.814	0.638	0.440	0.198	0.308	0.066	0.088	0.088	0.044	0.022	0.022	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

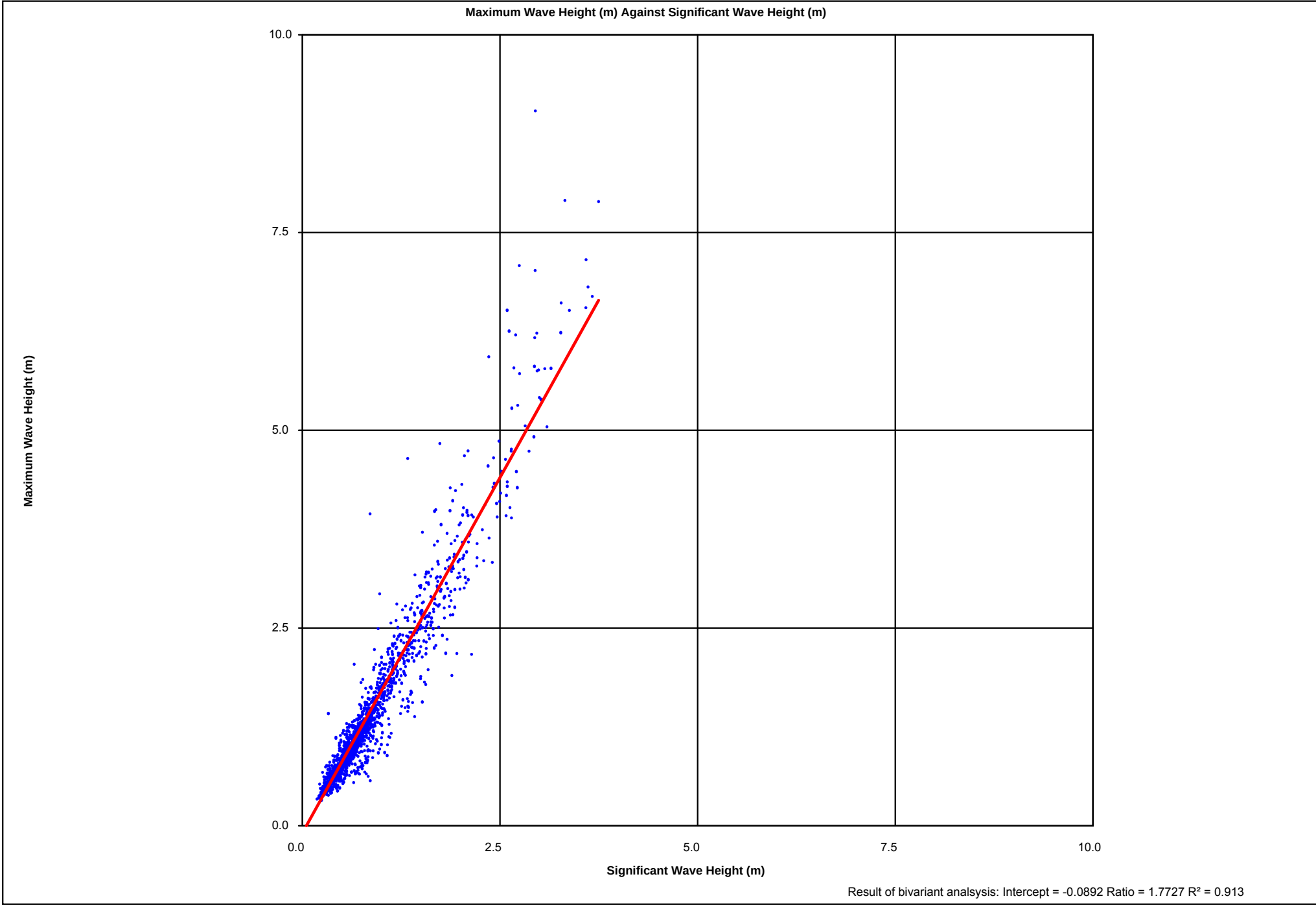
Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Significant Wave Height (m) against Peak Period (sec)																							Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4		
<1																							0	0.000
<2		8	8	1																			17	0.374
<3		154	302	270	64	10																	800	17.594
<4		85	258	372	303	128	21																1167	25.665
<5		23	72	196	270	278	126	28	4	1													998	21.949
<6		6	22	42	50	136	138	103	61	23	12	1											594	13.064
<7		6	24	20	18	21	39	42	64	72	36	13	7	3	3	2							370	8.137
<8		11	34	28	17	15	9	8	21	17	39	22	21	13	4	9	2	1	4		1		276	6.070
<9		11	26	20	3	8	2	3	1	1		1	1	2	2	2	1	2				1	87	1.913
<10		29	65	46	12	6	1		1	1	1			2		1		1		2			168	3.695
<11		7	16	15	2	3	1																44	0.968
<12		5	7	6		1																	19	0.418
<13		1	4	1																			6	0.132
<14																							0	0.000
<15																							0	0.000
<16					1																		1	0.022
<17																							0	0.000
<18																							0	0.000
<19																							0	0.000
<20																							0	0.000
Count	0	346	838	1017	740	606	337	184	152	115	88	37	29	20	9	14	3	4	4	2	1	1	4547	
%	0.000	7.609	18.430	22.366	16.274	13.327	7.411	4.047	3.343	2.529	1.935	0.814	0.638	0.440	0.198	0.308	0.066	0.088	0.088	0.044	0.022	0.022	100	

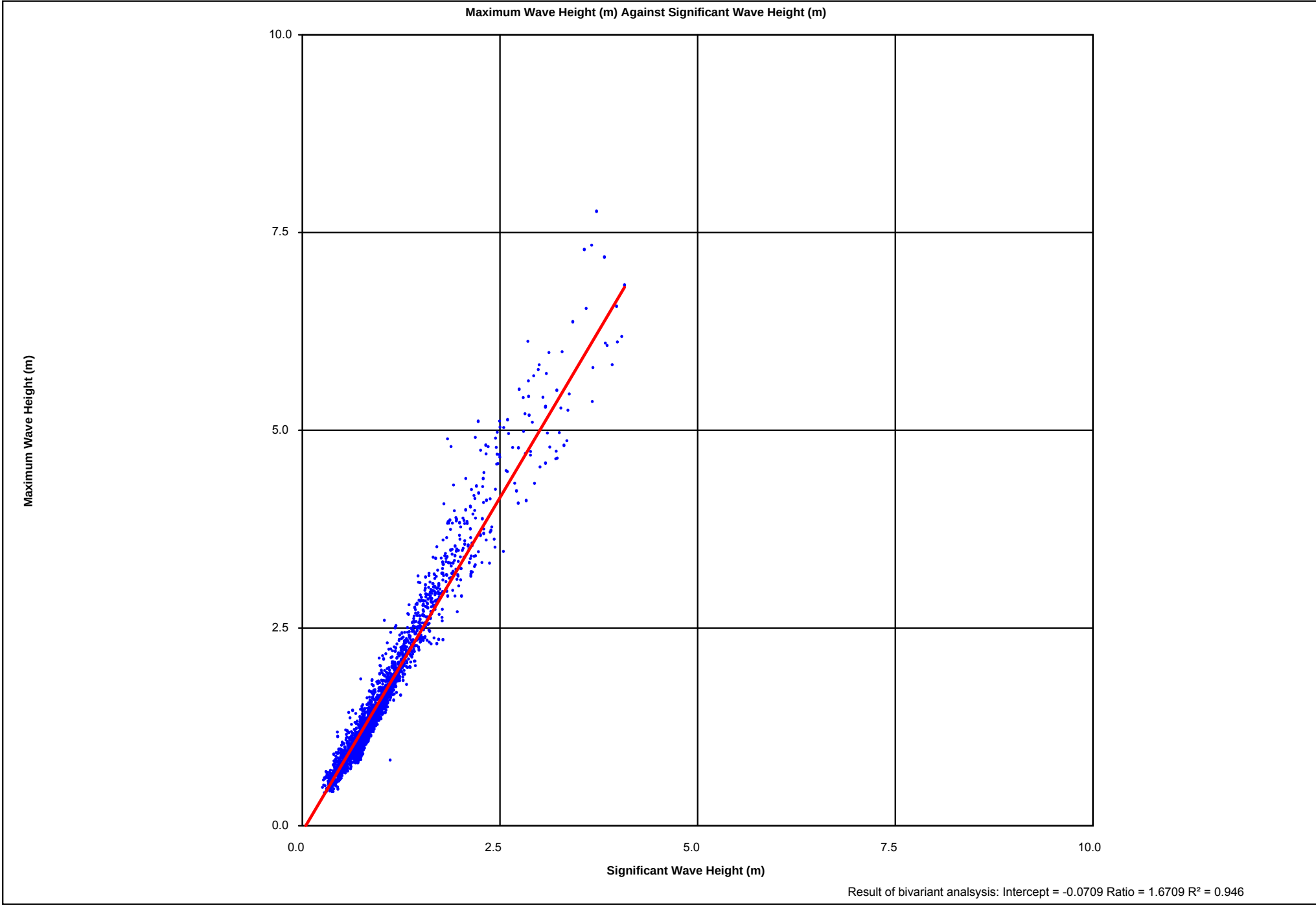
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2
Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194



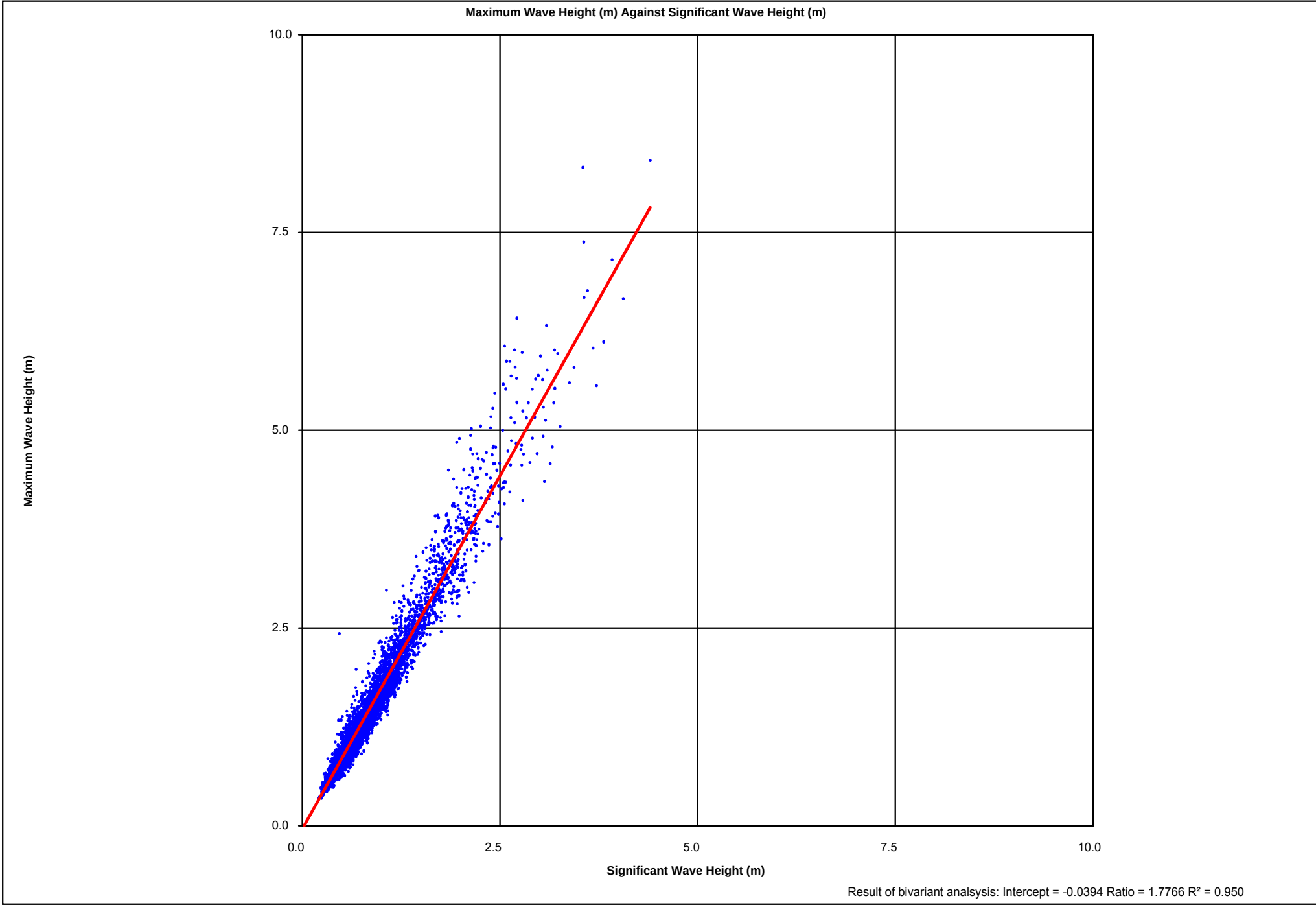
Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 2, Deployments 1 - 2
Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Current Meter / AWAC
Serial No.: 0720



Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 3, Deployments 1 - 3
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

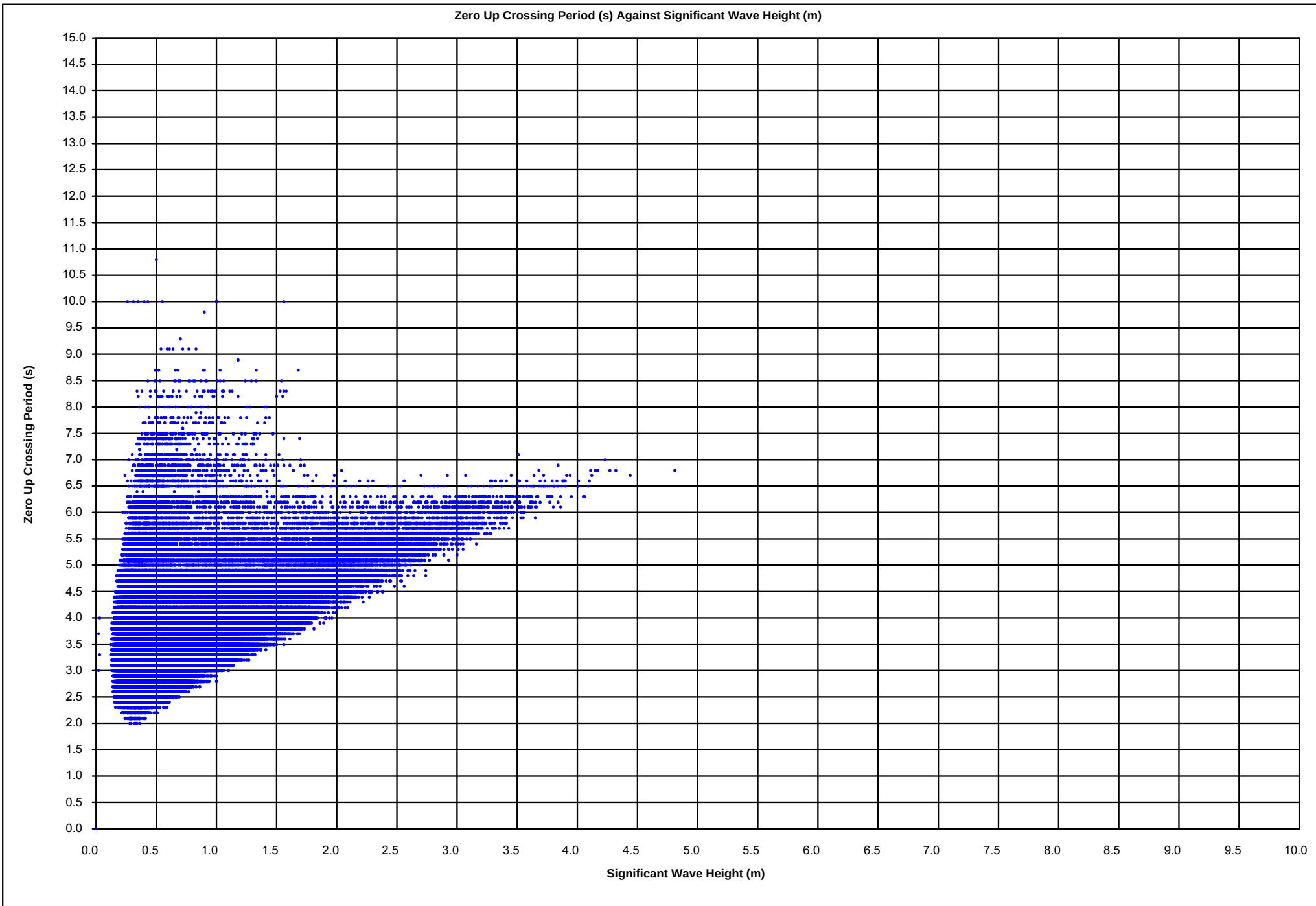
Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

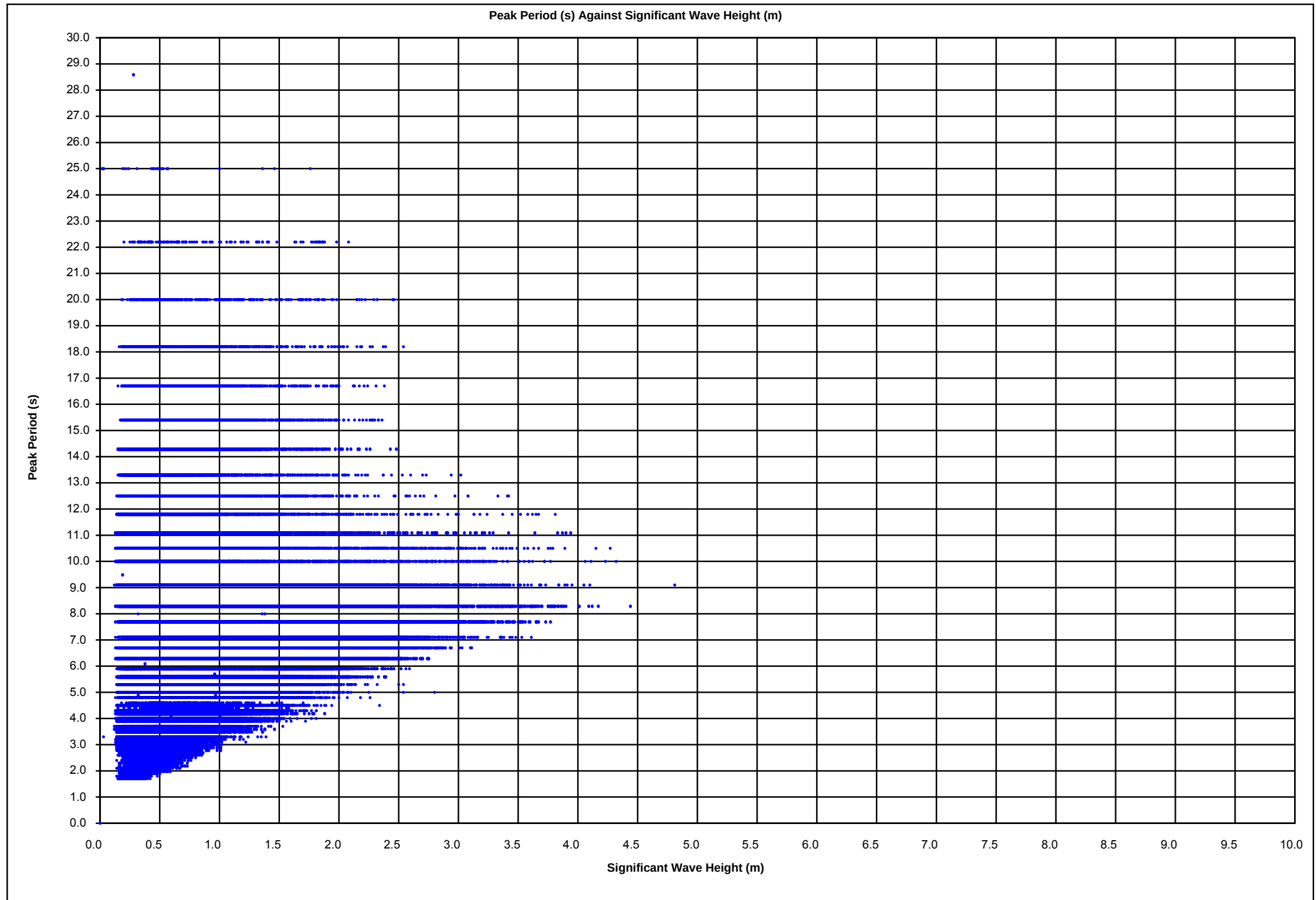
Wave Buoy / CCOData
Serial No.: 0000



Latitude: 50°44'5"N Longitude: 000°29'41"W Site depth: 10m Instrument depth 0m
Deployed: 2003

Rampion Offshore Wind Farm Metocean Survey and Assessment, Rustington

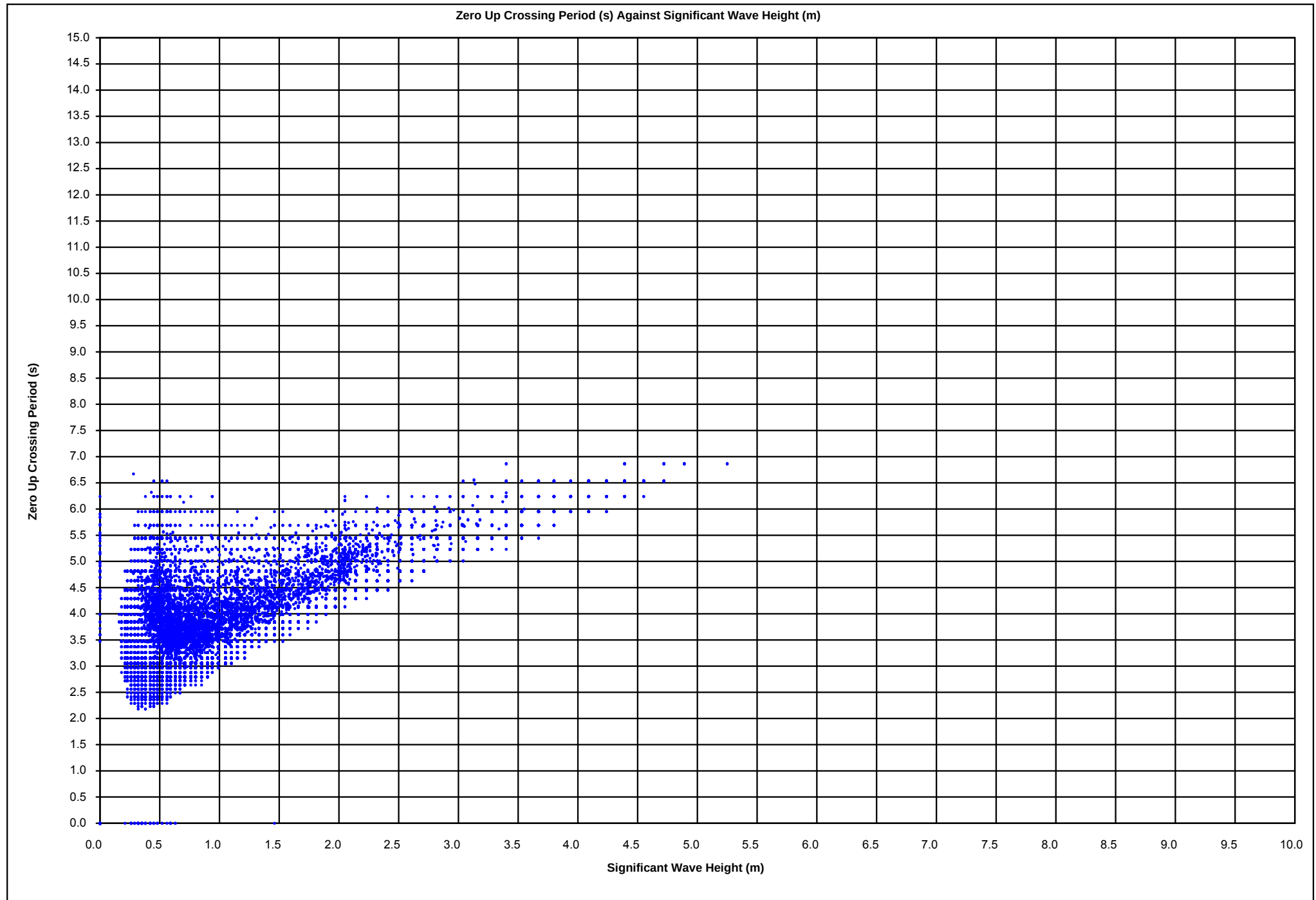
Wave Buoy / CCOData
Serial No.: 0000



Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 3m
Deployed: 2002 Recovered: 2011

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

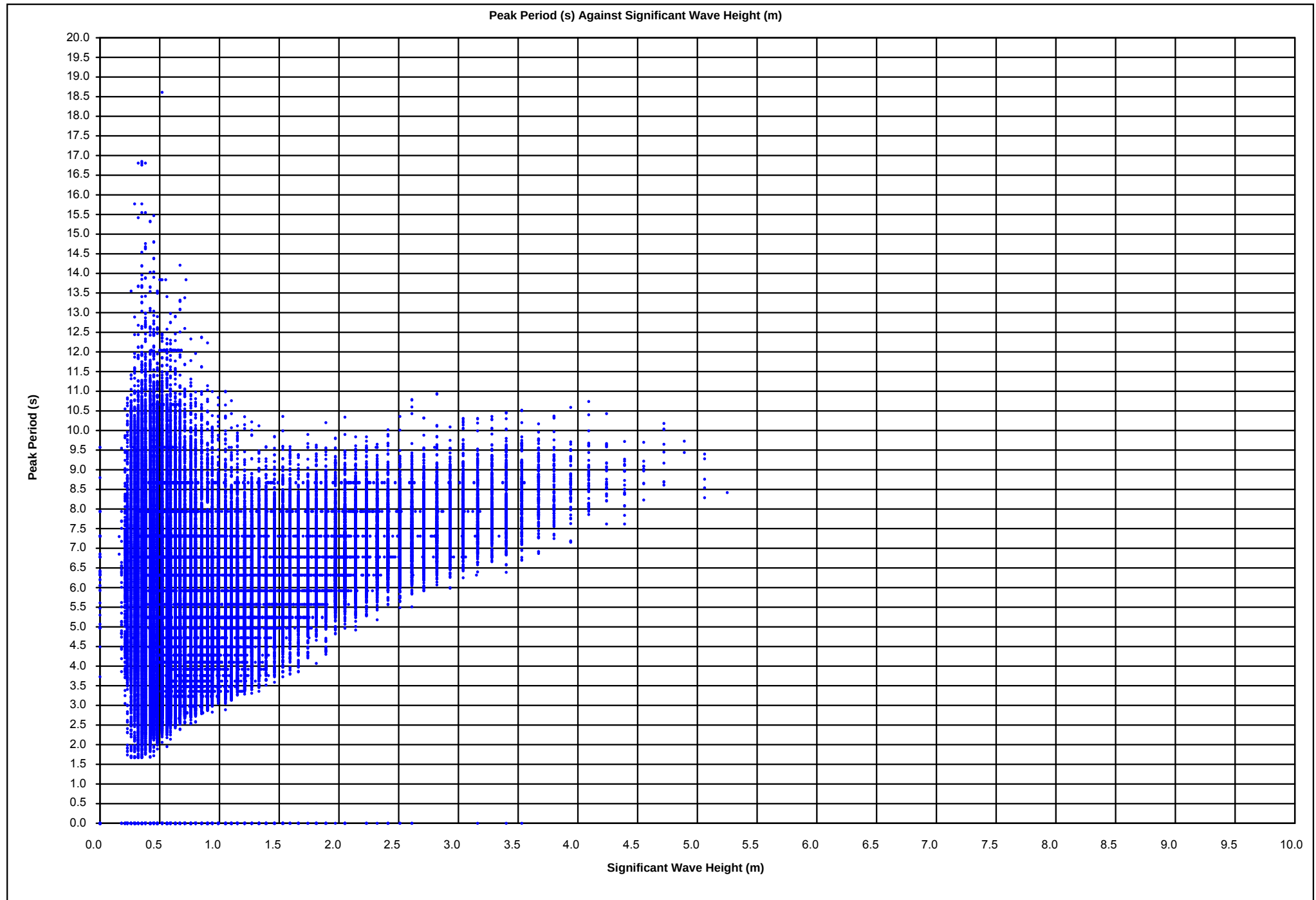
Wave Buoy / WaveNetData
Serial No.: 0000



Latitude: 50°44'38"N Longitude: 000°45'04"E Site depth: 36m Instrument depth 0m
Deployed: 2002 Recovered: 2011

Rampion Offshore Wind Farm Metocean Survey and Assessment, Hastings

Wave Buoy / WaveNetData
Serial No.: 0000



Appendix B

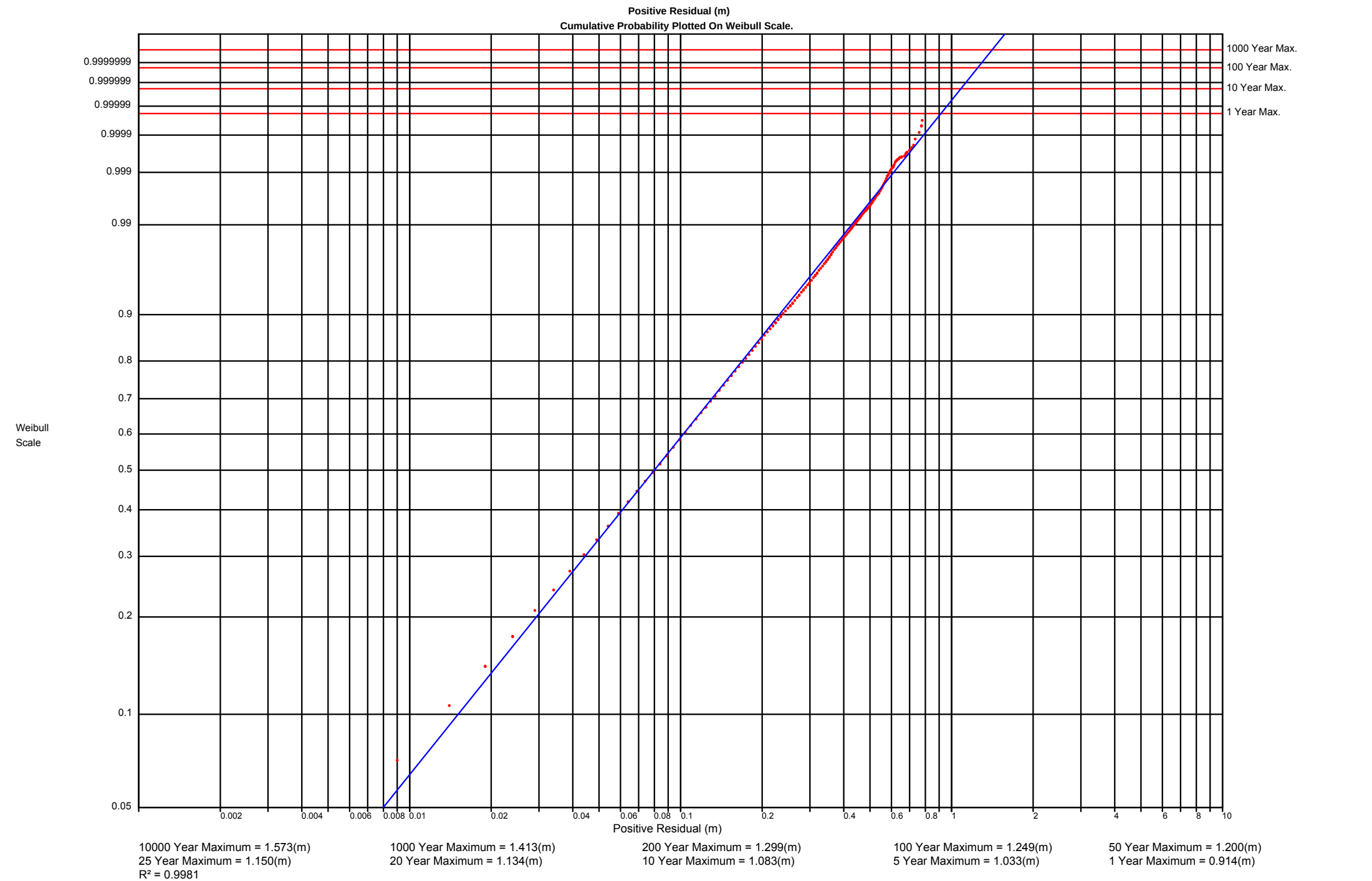
Data Presentation

Water Levels

Figure/Table	Location/Data Source	Data Type	Parameters
Figure B001	Arun	Statistical Distributions	Weibull Analysis of Positive Residual (Surge)
Figure B002	Arun	Statistical Distributions	Weibull Analysis of Negative Residual (Surge)
Figure B003	Newhaven NTSLF	Statistical Distributions	Weibull Analysis of Positive Residual (Surge)
Figure B004	Newhaven NTSLF	Statistical Distributions	Weibull Analysis of Negative Residual (Surge)
Table B001	Location 1	Tidal Height Harmonic Analysis Report	Speed, Amplitude and Phase Lag of Harmonic Constituents
Table B002	Location 2	Tidal Height Harmonic Analysis Report	Speed, Amplitude and Phase Lag of Harmonic Constituents
Table B003	Location 3	Tidal Height Harmonic Analysis Report	Speed, Amplitude and Phase Lag of Harmonic Constituents
Table B004	ASLF AWAC	Tidal Height Harmonic Analysis Report	Speed, Amplitude and Phase Lag of Harmonic Constituents
Figure B005	Location 1	Statistical Distributions	Weibull Analysis of Crest Height to LAT observations
Figure B006	Location 2	Statistical Distributions	Weibull Analysis of Crest Height to LAT observations
Figure B007	Location 3	Statistical Distributions	Weibull Analysis of Crest Height to LAT observations
Figure B008	Location 1	Statistical Distributions	Weibull Analysis of Crest Height to LAT (derived from a synthesised long-term dataset)
Figure B009	Location 2	Statistical Distributions	Weibull Analysis of Crest Height to LAT (derived from a synthesised long-term dataset)
Figure B010	Location 3	Statistical Distributions	Weibull Analysis of Crest Height to LAT (derived from a synthesised long-term dataset)

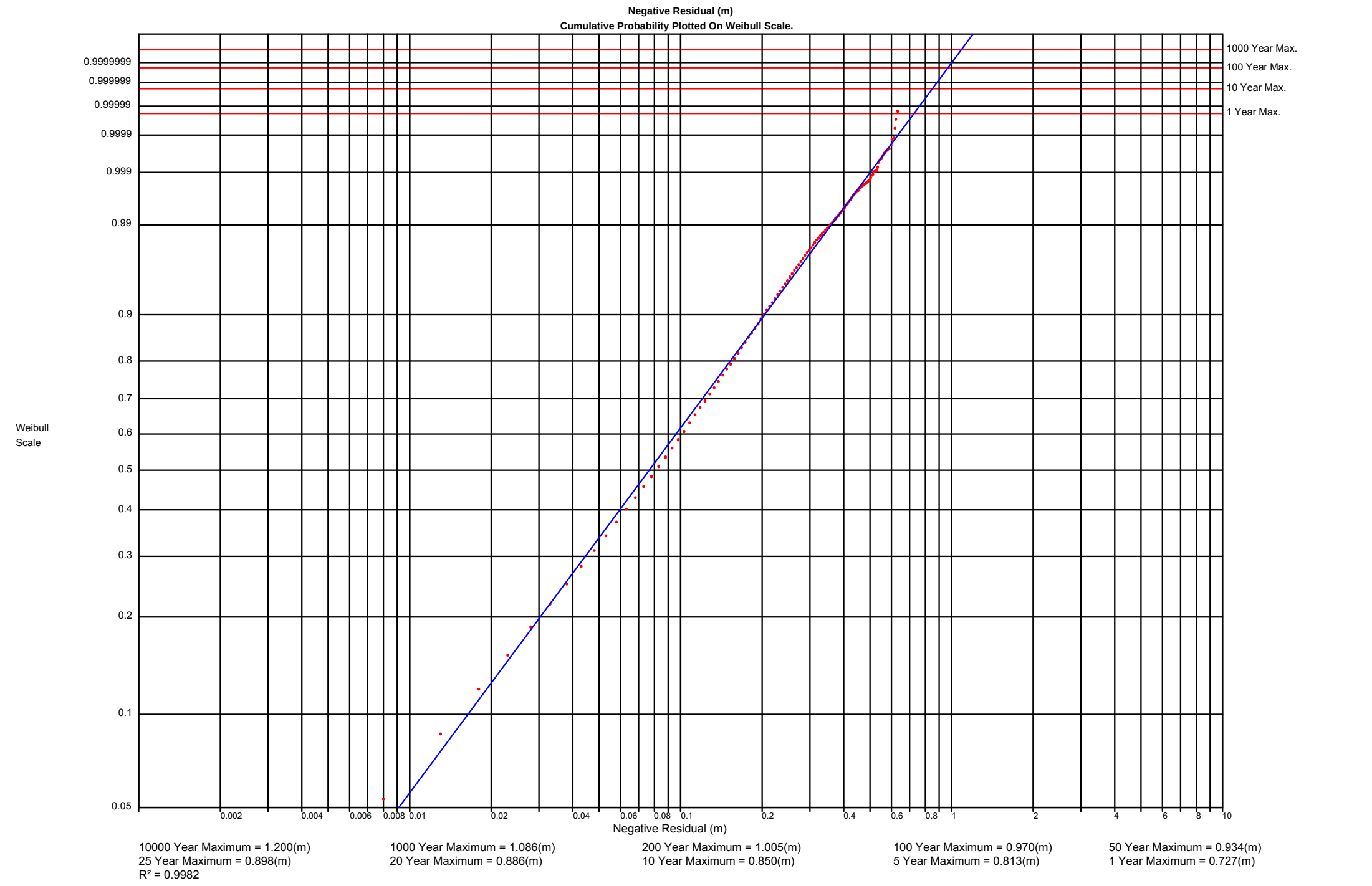
Latitude: 50°46'12"N Longitude: 000°29'30"W
Deployed: 2008 Recovered: 2010

Tide Gauge / CCO Arun
Serial No.: 19261



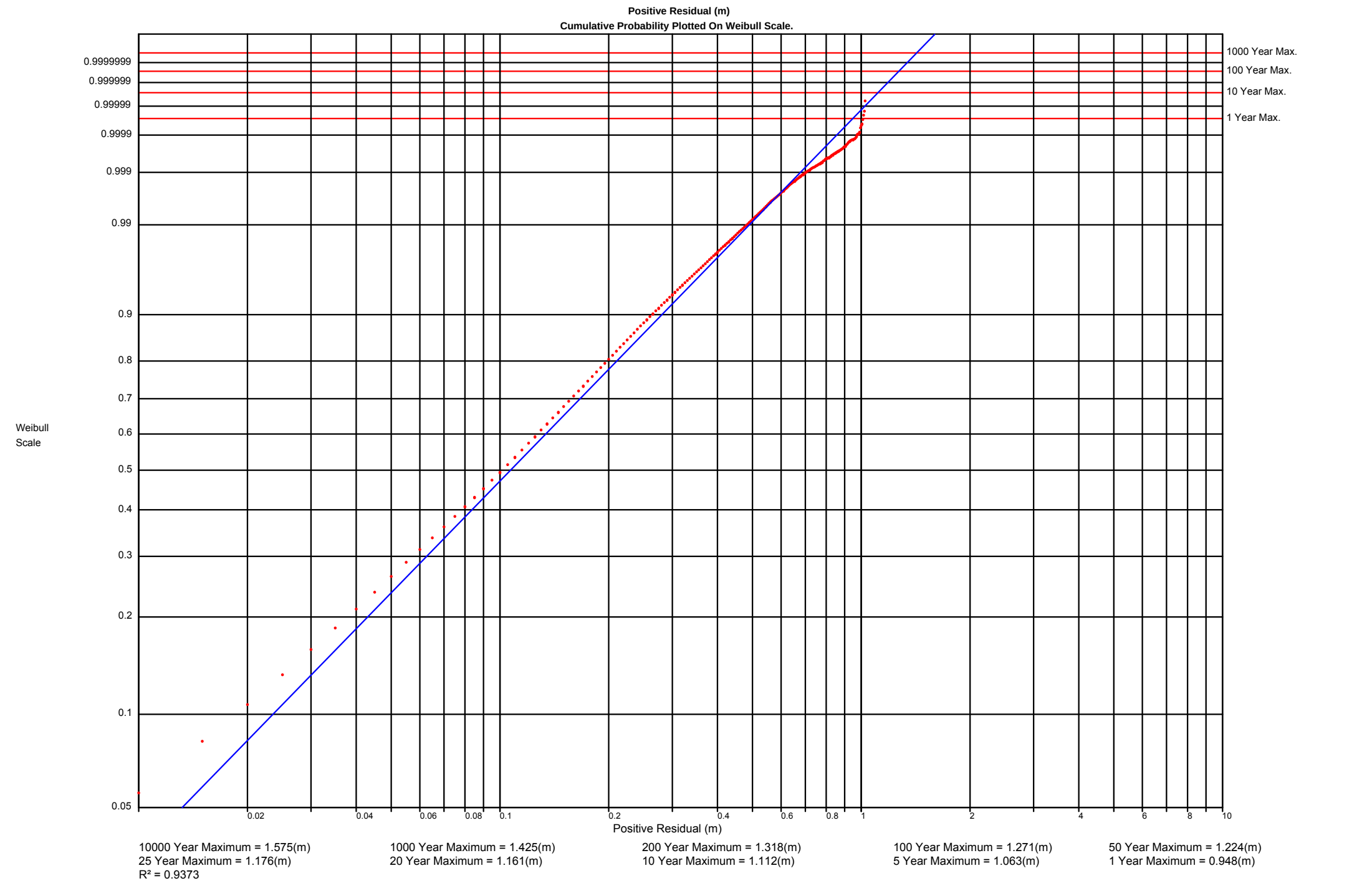
Latitude: 50°46'12"N Longitude: 000°29'30"W
Deployed: 2008 Recovered: 2010

Tide Gauge / CCO Arun
Serial No.: 19261



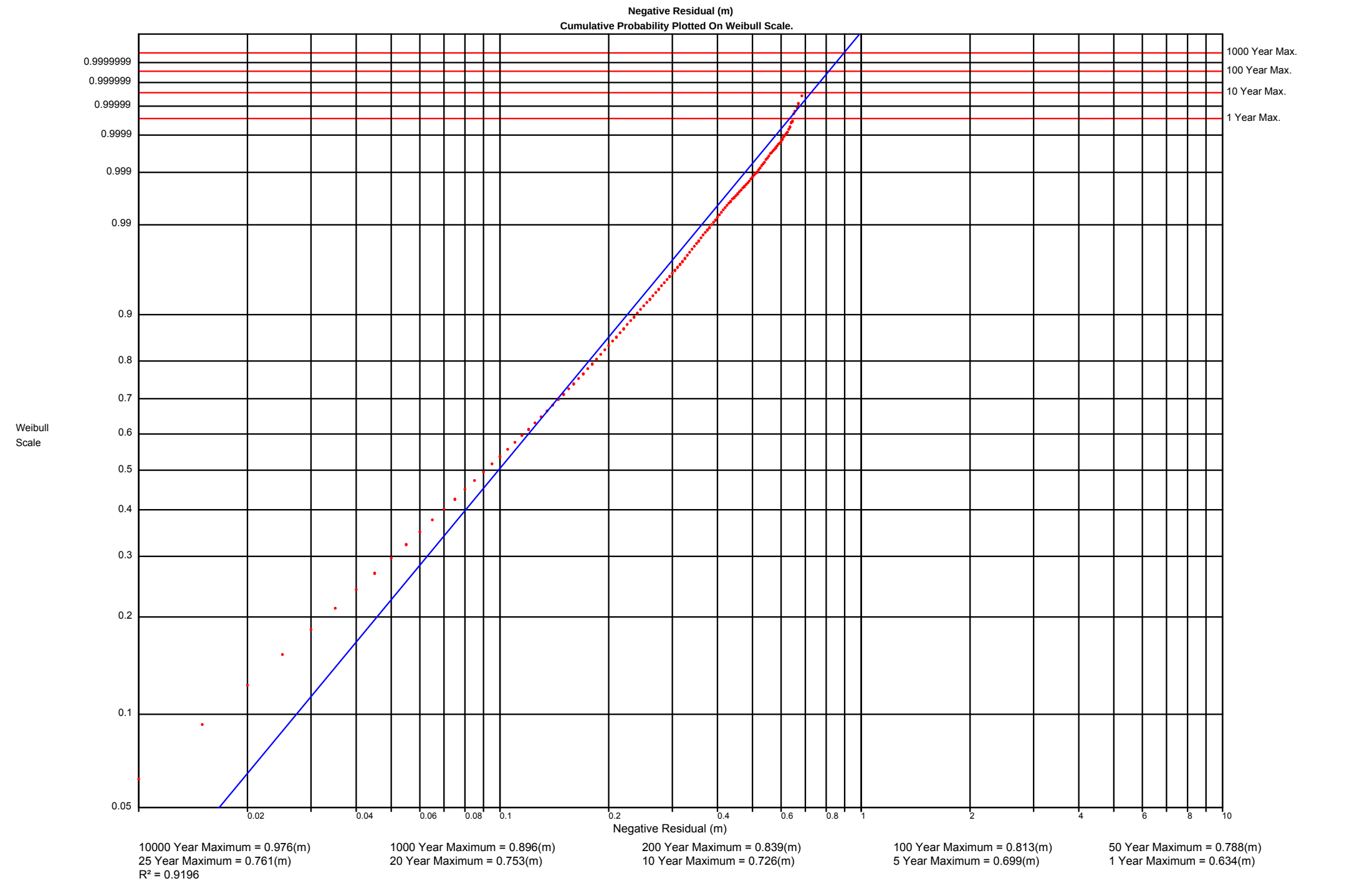
Latitude: 50°46'54.5"N Longitude: 000°03'25.2"E
Deployed: 1982

Tide Gauge / POL Newhaven
Serial No.: 1



Latitude: 50°46'54.5"N Longitude: 000°03'25.2"E
Deployed: 1982

Tide Gauge / POL Newhaven
Serial No.: 1



TIDAL HEIGHT HARMONIC ANALYSIS REPORT

Table B001

Job Number: J/1/01/1743 Rampion Offshore Wind Farm Metocean Survey and Assessment

Location 1, Deployments 1 - 2

Analysis of Current Meter / AWAC Serial No. 194

Geographical Position: Latitude: 50°40'48"N Longitude: 000°19'36"W

Analysis of observations for period: Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Seed file for separation of related constituents: NEWH_POL (60)

Speed is in degrees per hour: a constant for each constituent.

Amplitude (H) is in cm.

Phase lag (g) is in degrees and synchronises the harmonic to GMT (UT).

RELATED CONSTITUENTS

Number	Constant	Reference	Speed(°/h)	Amplitude	Phase lag
1	PI1	K1	14.9178647	0.5	123.0
2	P1	K1	14.9589314	2.8	102.2
3	PSI1	K1	15.0821353	0.1	341.5
4	PHI1	K1	15.1232059	0.3	112.8
5	2N2	N2	27.8953548	5.0	274.6
6	NU2	N2	28.5125831	8.3	288.4
7	T2	S2	29.9589333	3.7	354.8
8	K2	S2	30.0821373	19.2	4.6

MAJOR CONSTITUENTS

Number	Constant	Speed(°/h)	Amplitude	Phase lag
1	Mean		338.4	
2	MM	0.5443747	8.8	184.8
3	MSF	1.0158958	0.7	235.2
4	Q1	13.3986609	0.2	215.1
5	O1	13.9430356	2.1	20.6
6	M1	14.4920521	0.2	69.8
7	K1	15.0410686	7.6	109.0
8	J1	15.5854433	1.7	213.6
9	OO1	16.1391017	0.1	341.8
10	MU2	27.9682084	4.7	7.1
11	N2	28.4397295	38.6	297.3
12	M2	28.9841042	205.6	318.4
13	L2	29.5284789	8.9	322.3
14	S2	30.0000000	65.8	7.1
15	2SM2	31.0158958	2.7	211.9
16	M03	42.9271398	1.1	281.2
17	M3	43.4761563	0.6	299.7
18	MK3	44.0251729	1.2	37.1
19	MN4	57.4238337	1.6	284.3
20	M4	57.9682084	6.3	291.2
21	SN4	58.4397295	0.6	316.4
22	MS4	58.9841042	3.0	349.8
23	2MN6	86.4079380	1.0	132.4
24	M6	86.9523127	2.6	148.4
25	MSN6	87.4238337	0.7	166.7
26	2MS6	87.9682084	2.1	186.5
27	2SM6	88.9841042	0.5	243.6

VARIANCE ORIGINAL (VO)	2.421	HAT:	6.796m	MSR:	5.428m
VARIANCE RESIDUAL (VR)	0.02239	MHWS:	6.098m	MR:	4.112m
RATIO VR/VO	0.0092	MHWN:	4.782m	MNR:	2.796m
SQRT(VO)	1.556	MSL:	3.384m	MHWI:	10.940 Hours
SQRT(VR)	0.14963	MLWN:	1.986m	MLWI:	17.157 Hours
RATIO SQRT(VR)/SQRT(VO)	0.0962	MLWS:	0.670m		
		LAT:	0.000m		

TIDAL HEIGHT HARMONIC ANALYSIS REPORT

Table B002

Job Number: J/1/01/1743 Rampion Offshore Wind Farm Metocean Survey and Assessment

Location 2, Deployments 1 - 2

Analysis of Current Meter / AWAC Serial No. 720

Geographical Position: Latitude: 50°41'00"N Longitude: 000°08'56"W

Analysis of observations for period: Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Seed file for separation of related constituents: NEWH_POL (60)

Speed is in degrees per hour: a constant for each constituent.

Amplitude (H) is in cm.

Phase lag (g) is in degrees and synchronises the harmonic to GMT (UT).

RELATED CONSTITUENTS

Number	Constant	Reference	Speed(°/h)	Amplitude	Phase lag
1	PI1	K1	14.9178647	0.5	120.0
2	P1	K1	14.9589314	2.9	99.2
3	PSI1	K1	15.0821353	0.1	338.5
4	PHI1	K1	15.1232059	0.3	109.8
5	2N2	N2	27.8953548	5.3	274.2
6	NU2	N2	28.5125831	8.8	288.0
7	T2	S2	29.9589333	4.0	354.9
8	K2	S2	30.0821373	20.5	4.7

MAJOR CONSTITUENTS

Number	Constant	Speed(°/h)	Amplitude	Phase lag
1	Mean		353.6	
2	MM	0.5443747	6.5	191.6
3	MSF	1.0158958	2.4	20.3
4	Q1	13.3986609	0.6	7.0
5	O1	13.9430356	1.3	25.0
6	M1	14.4920521	0.4	225.2
7	K1	15.0410686	7.8	106.0
8	J1	15.5854433	0.9	231.1
9	OO1	16.1391017	0.5	308.9
10	MU2	27.9682084	6.6	0.1
11	N2	28.4397295	41.1	296.9
12	M2	28.9841042	215.5	318.2
13	L2	29.5284789	10.8	300.8
14	S2	30.0000000	70.0	7.2
15	2SM2	31.0158958	3.9	219.9
16	M03	42.9271398	0.8	269.3
17	M3	43.4761563	0.4	333.5
18	MK3	44.0251729	1.6	41.2
19	MN4	57.4238337	2.1	256.8
20	M4	57.9682084	6.1	263.6
21	SN4	58.4397295	0.3	19.6
22	MS4	58.9841042	3.5	326.7
23	2MN6	86.4079380	1.1	146.7
24	M6	86.9523127	2.3	157.3
25	MSN6	87.4238337	0.4	187.4
26	2MS6	87.9682084	2.3	203.5
27	2SM6	88.9841042	0.5	268.3

VARIANCE ORIGINAL (VO)	2.619	HAT:	7.212m	MSR:	5.710m
VARIANCE RESIDUAL (VR)	0.01655	MHWS:	6.391m	MR:	4.310m
RATIO VR/VO	0.0063	MHWN:	4.991m	MNR:	2.910m
SQRT(VO)	1.618	MSL:	3.536m	MHWI:	10.920 Hours
SQRT(VR)	0.12865	MLWN:	2.081m	MLWI:	17.326 Hours
RATIO SQRT(VR)/SQRT(VO)	0.0795	MLWS:	0.681m		
		LAT:	0.000m		

TIDAL HEIGHT HARMONIC ANALYSIS REPORT

Table B003

Job Number: J/1/01/1743 Rampion Offshore Wind Farm Metocean Survey and Assessment

Location 3, Deployments 1 - 3

Analysis of Current Meter / AWAC Serial No. 1474

Geographical Position: Latitude: 50°38'00"N Longitude: 000°13'18"W

Analysis of observations for period: Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Seed file for separation of related constituents: NEWH_POL (60)

Speed is in degrees per hour: a constant for each constituent.

Amplitude (H) is in cm.

Phase lag (g) is in degrees and synchronises the harmonic to GMT (UT).

RELATED CONSTITUENTS

Number	Constant	Reference	Speed(°/h)	Amplitude	Phase lag
1	PI1	K1	14.9178647	0.5	123.4
2	S1	K1	15.0000000	0.3	80.1
3	PSI1	K1	15.0821353	0.1	341.9
4	T2	S2	29.9589333	3.8	354.8
5	R2	S2	30.0410667	0.5	61.9

MAJOR CONSTITUENTS

Number	Constant	Speed(°/h)	Amplitude	Phase lag
1	Mean		321.3	
2	SSA	0.0821373	4.3	50.1
3	MM	0.5443747	2.7	200.0
4	MSF	1.0158958	1.2	70.8
5	MF	1.0980331	0.7	331.3
6	2Q1	12.8542862	0.7	294.3
7	SIGMA1	12.9271398	0.3	303.1
8	Q1	13.3986609	0.4	355.6
9	RH01	13.4715145	0.2	97.6
10	O1	13.9430356	1.7	6.1
11	MP1	14.0251729	0.4	169.0
12	M1	14.4920521	0.1	217.4
13	CHI1	14.5695476	0.5	126.2
14	P1	14.9589314	2.6	88.5
15	K1	15.0410686	7.9	109.4
16	PHI1	15.1232059	0.1	239.5
17	THETA1	15.5125897	0.5	91.2
18	J1	15.5854433	0.8	229.1
19	S01	16.0569644	1.0	270.5
20	O01	16.1391017	0.9	295.9
21	OQ2	27.3416965	0.5	164.1
22	MNS2	27.4238337	1.9	17.8
23	2N2	27.8953548	3.4	290.5
24	MU2	27.9682084	6.0	11.6
25	N2	28.4397295	40.1	295.6
26	NU2	28.5125831	9.1	284.8
27	OP2	28.9019669	2.2	286.3
28	M2	28.9841042	207.7	317.8
29	MKS2	29.0662415	2.4	56.3
30	LAMDA2	29.4556253	5.2	320.4
31	L2	29.5284789	13.2	312.8
32	S2	30.0000000	67.2	7.1
33	K2	30.0821373	18.7	6.0
34	MSN2	30.5443747	3.0	198.3
35	KJ2	30.6265120	0.4	261.6
36	2SM2	31.0158958	4.4	218.7
37	M03	42.9271398	0.8	278.2
38	M3	43.4761563	0.6	307.8
39	S03	43.9430356	0.5	342.4
40	MK3	44.0251729	1.3	49.1
41	SK3	45.0410686	0.7	103.8
42	MN4	57.4238337	1.8	259.8
43	M4	57.9682084	4.7	281.9
44	SN4	58.4397295	0.4	37.9
45	MS4	58.9841042	3.2	340.5
46	MK4	59.0662415	0.7	339.7
47	S4	60.0000000	0.4	84.5
48	SK4	60.0821373	0.1	107.5
49	2MN6	86.4079380	1.2	143.8

50	M6	86.9523127	2.2	162.7
51	MSN6	87.4238337	0.5	195.0
52	2MS6	87.9682084	2.5	204.5
53	2MK6	88.0503457	0.6	207.7
54	2SM6	88.9841042	0.7	260.4
55	MSK6	89.0662415	0.3	255.4

VARIANCE ORIGINAL (V0)	2.540	HAT:	6.624m	MSR:	5.498m
VARIANCE RESIDUAL (VR)	0.01138	MHWS:	5.962m	MR:	4.154m
RATIO VR/V0	0.0045	MHWN:	4.618m	MNR:	2.810m
SQRT(V0)	1.594	MSL:	3.213m	MHWI:	10.930 Hours
SQRT(VR)	0.10668	MLWN:	1.808m	MLWI:	17.315 Hours
RATIO SQRT(VR)/SQRT(V0)	0.0669	MLWS:	0.464m		
		LAT:	0.000m		

Job Number: J/1/01/1743 Rampion Offshore Wind Farm Metocean Survey and Assessment
ASLF AWAC

Analysis of Current Meter / AWAC Serial No. 5030

Geographical Position: Latitude: 50°38'55.8"N Longitude: 000°24'53.1"W

Analysis of observations for period: Deployed: 09/04/2006 05:00 Recovered: 09/05/2006 12:20

Seed file for separation of related constituents: NEWH_POL (60)

Speed is in degrees per hour: a constant for each constituent.

Amplitude (H) is in cm.

Phase lag (g) is in degrees and synchronises the harmonic to GMT (UT).

RELATED CONSTITUENTS

Number	Constant	Reference	Speed(°/h)	Amplitude	Phase lag
1	PI1	K1	14.9178647	0.5	119.4
2	P1	K1	14.9589314	2.9	98.6
3	PSI1	K1	15.0821353	0.1	337.9
4	PHI1	K1	15.1232059	0.3	109.2
5	2N2	N2	27.8953548	4.8	270.9
6	NU2	N2	28.5125831	7.9	284.7
7	T2	S2	29.9589333	3.5	356.4
8	K2	S2	30.0821373	18.1	6.2

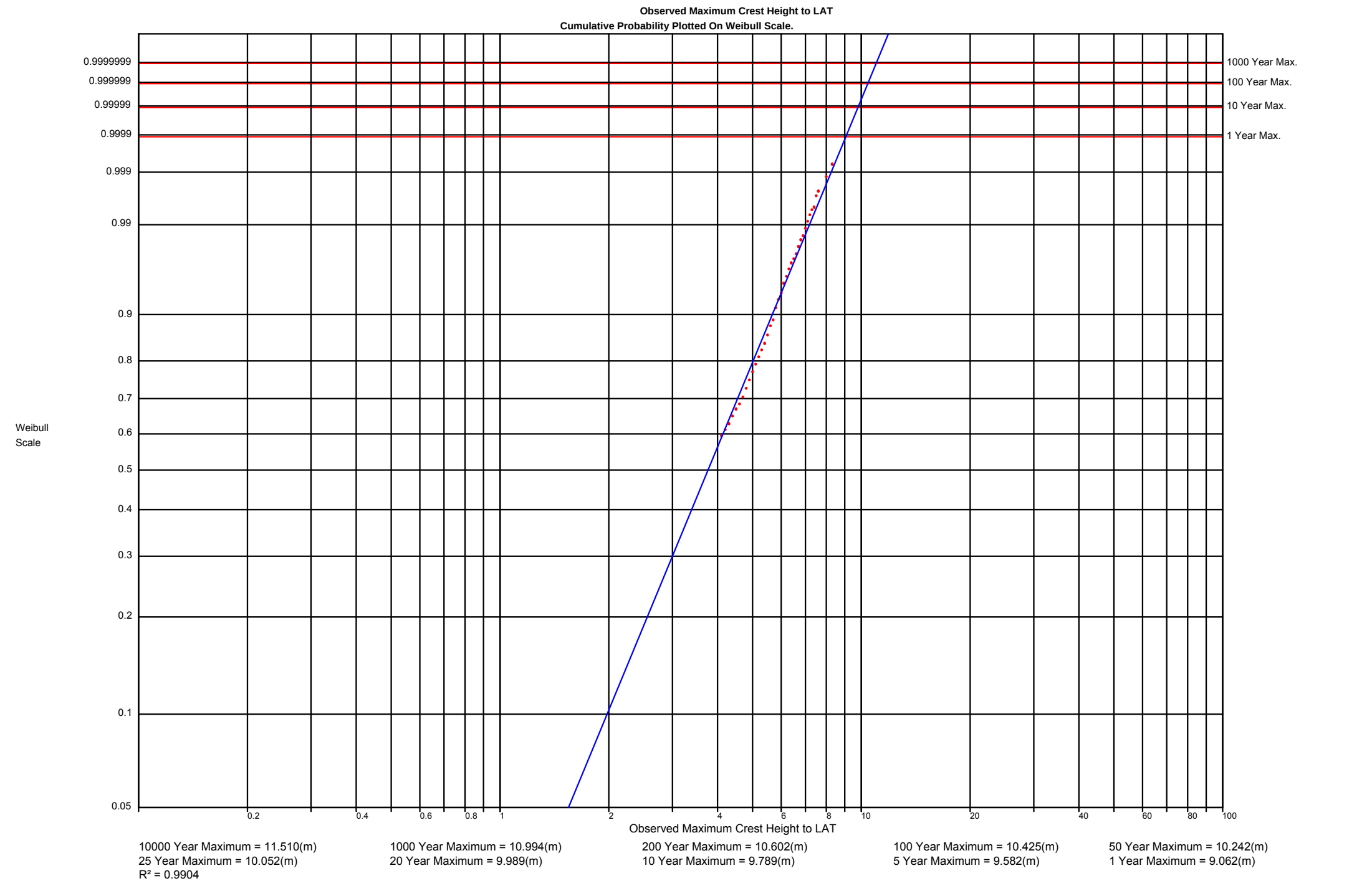
MAJOR CONSTITUENTS

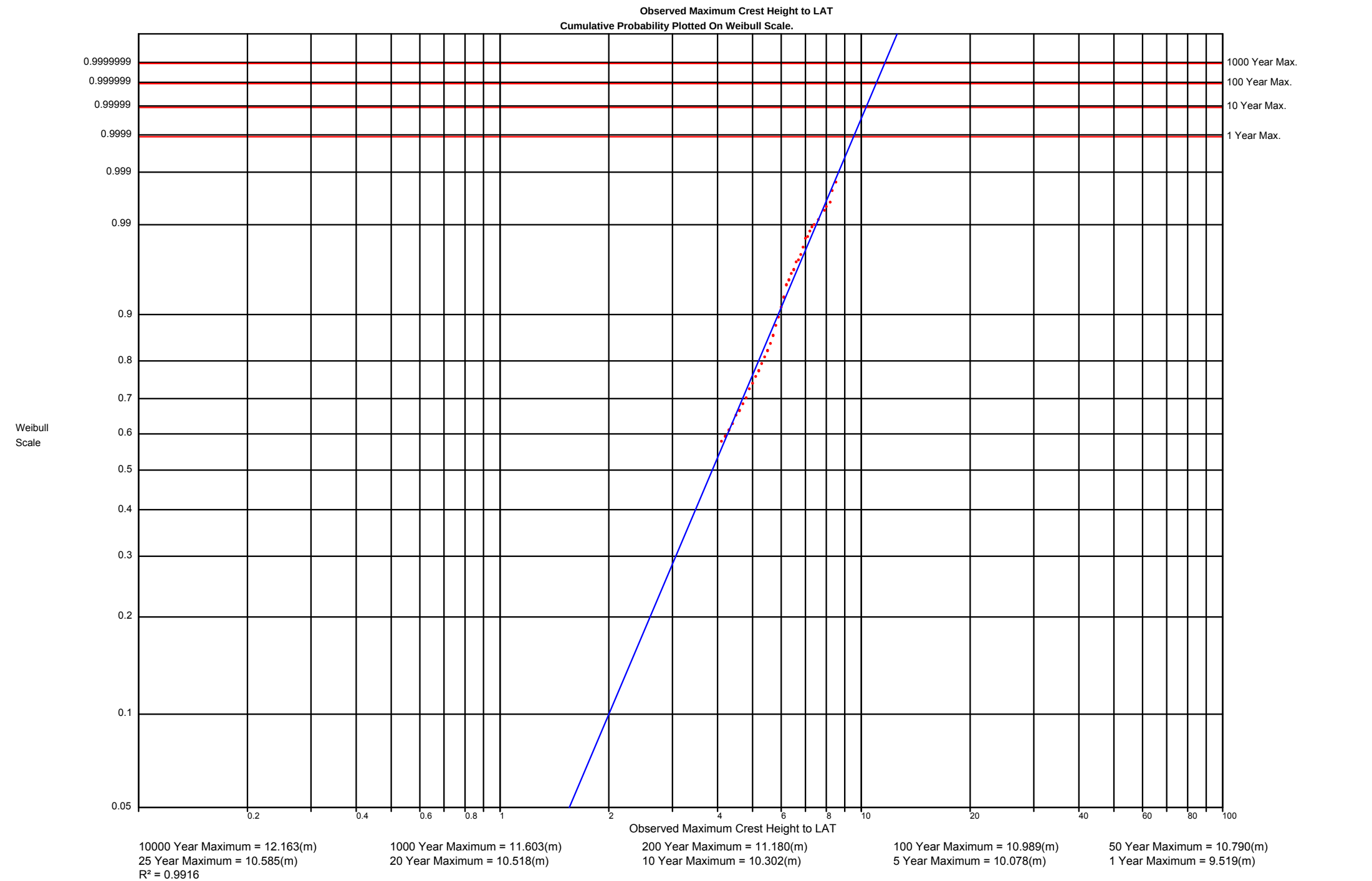
Number	Constant	Speed(°/h)	Amplitude	Phase lag
1	Mean		308.5	
2	MM	0.5443747	8.4	244.6
3	MSF	1.0158958	6.6	0.1
4	Q1	13.3986609	1.0	286.9
5	O1	13.9430356	1.6	323.6
6	M1	14.4920521	0.4	192.9
7	K1	15.0410686	7.8	105.4
8	J1	15.5854433	0.9	176.8
9	OO1	16.1391017	1.1	276.4
10	MU2	27.9682084	4.6	66.1
11	N2	28.4397295	36.9	293.6
12	M2	28.9841042	190.0	318.0
13	L2	29.5284789	8.5	359.0
14	S2	30.0000000	61.9	8.7
15	2SM2	31.0158958	4.7	178.7
16	M03	42.9271398	1.1	303.7
17	M3	43.4761563	0.4	54.9
18	MK3	44.0251729	0.9	82.6
19	MN4	57.4238337	1.8	274.1
20	M4	57.9682084	5.6	315.3
21	SN4	58.4397295	0.9	1.8
22	MS4	58.9841042	4.7	356.4
23	2MN6	86.4079380	1.1	106.2
24	M6	86.9523127	2.5	150.3
25	MSN6	87.4238337	0.9	167.0
26	2MS6	87.9682084	3.5	177.5
27	2SM6	88.9841042	1.3	216.7

VARIANCE ORIGINAL (VO)	1.983	HAT:	6.302m	MSR:	5.038m
VARIANCE RESIDUAL (VR)	0.00703	MHWS:	5.604m	MR:	3.800m
RATIO VR/VO	0.0035	MHWN:	4.366m	MNR:	2.562m
SQRT(VO)	1.408	MSL:	3.085m	MHWI:	10.983 Hours
SQRT(VR)	0.08384	MLWN:	1.804m	MLWI:	17.253 Hours
RATIO SQRT(VR)/SQRT(VO)	0.0595	MLWS:	0.566m		
		LAT:	0.000m		

Latitude: 50°40'48"N Longitude: 000°19'36"W Processed on 03/02/2011
Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10

Current Meter / AWAC
Serial No.: 0194

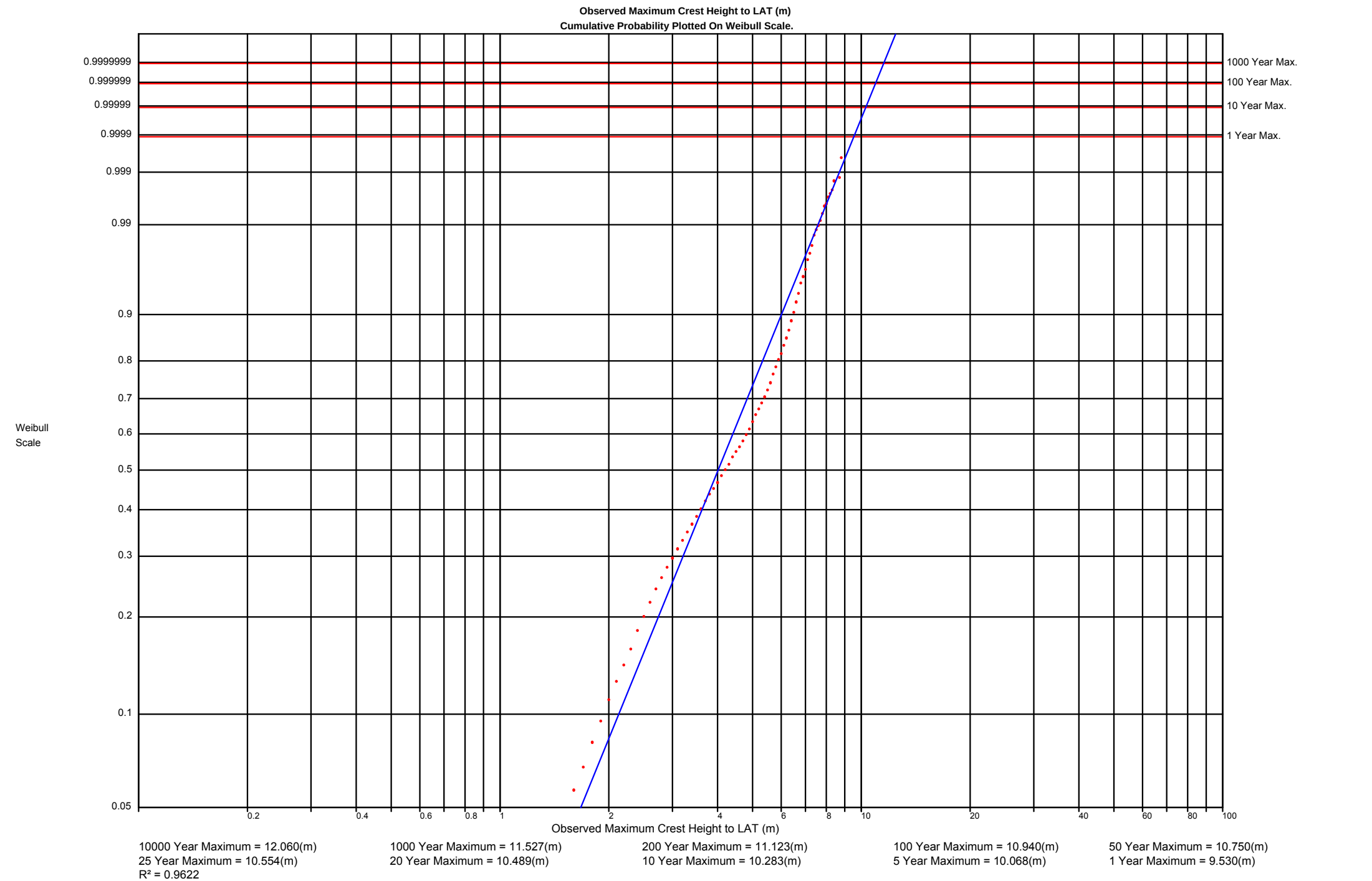


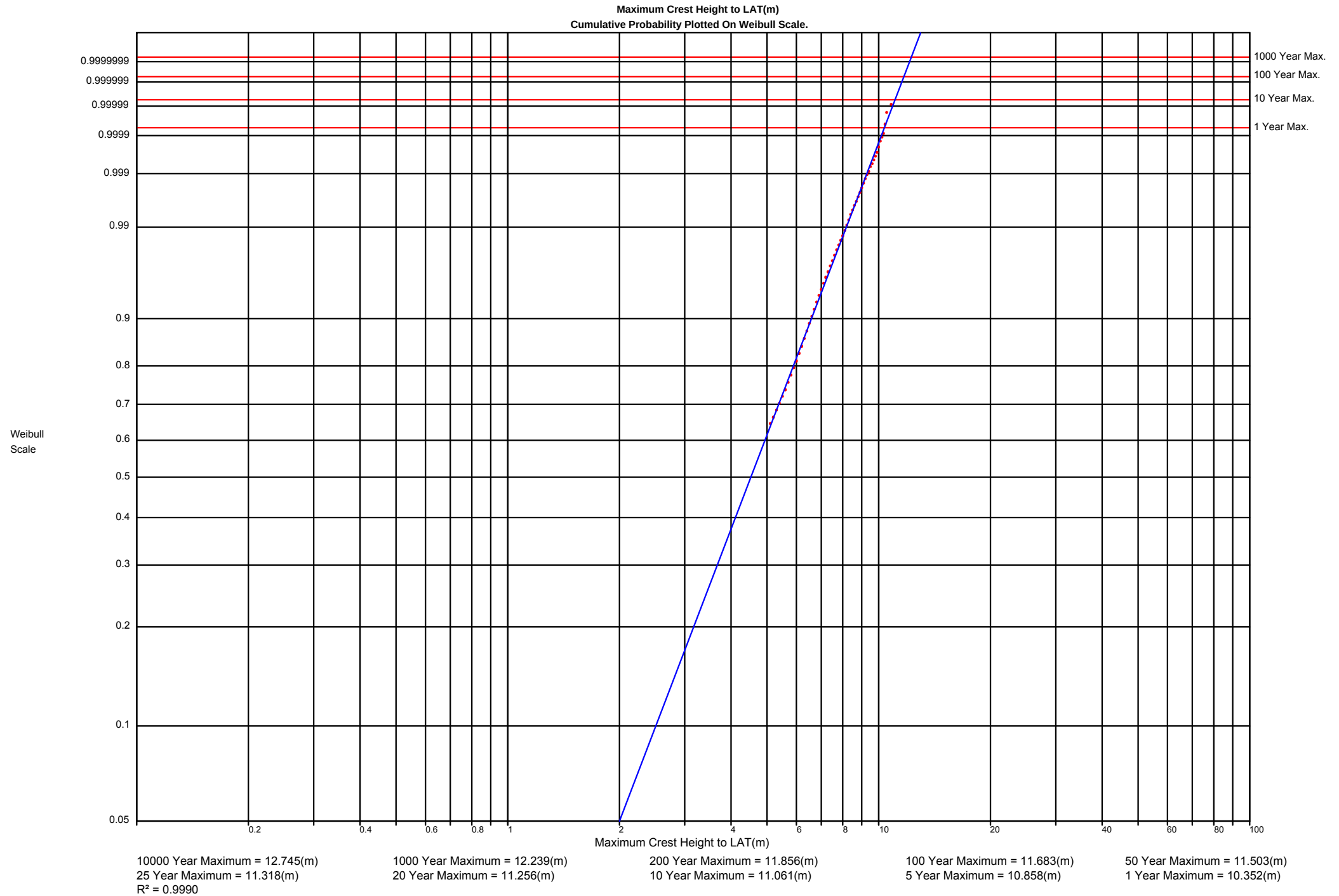


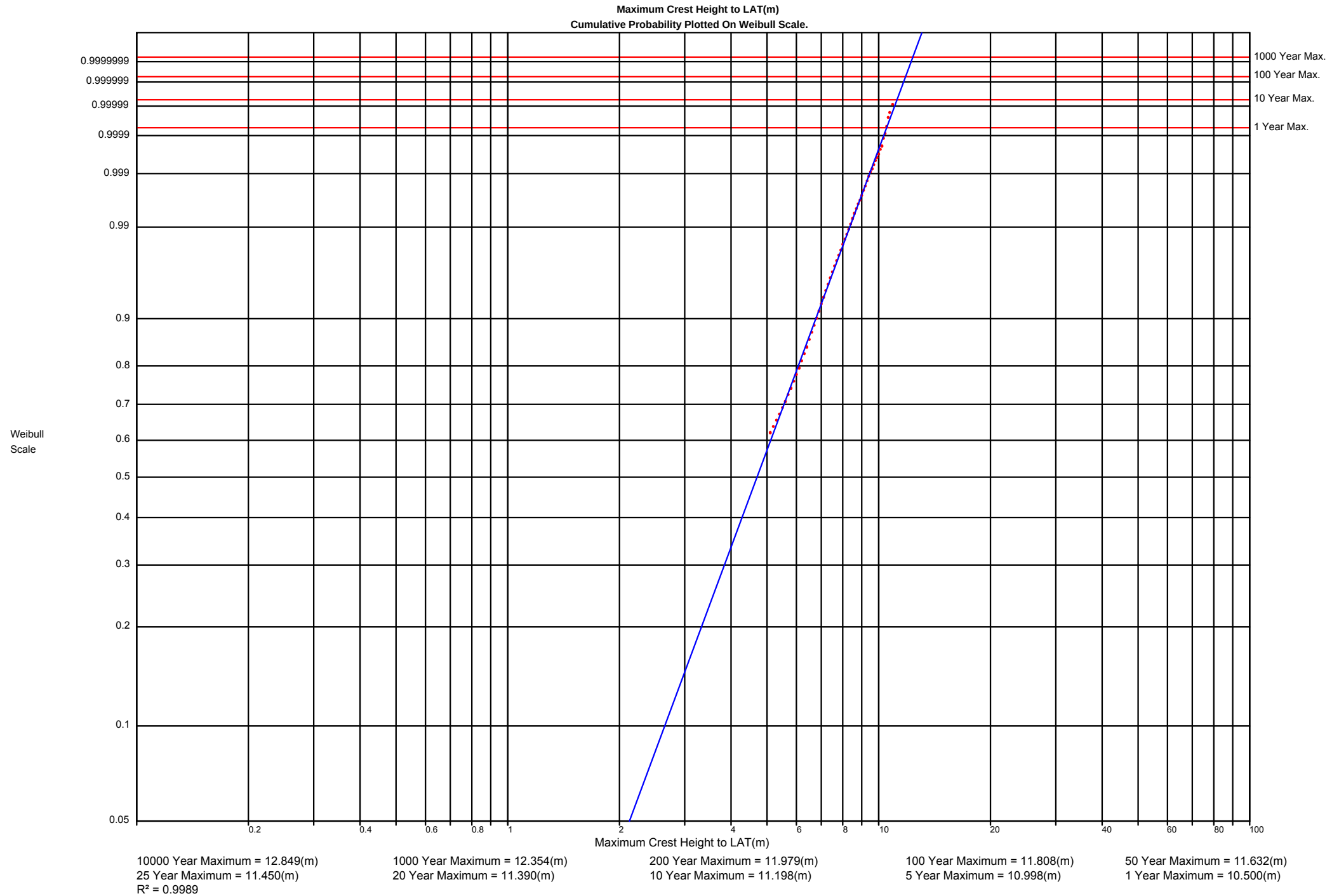
Latitude: 50°38'00"N Longitude: 000°13'18"W Processed on 09/03/2011
Deployed: 01/11/2010 13:25 Recovered: 15/12/2010 13:16

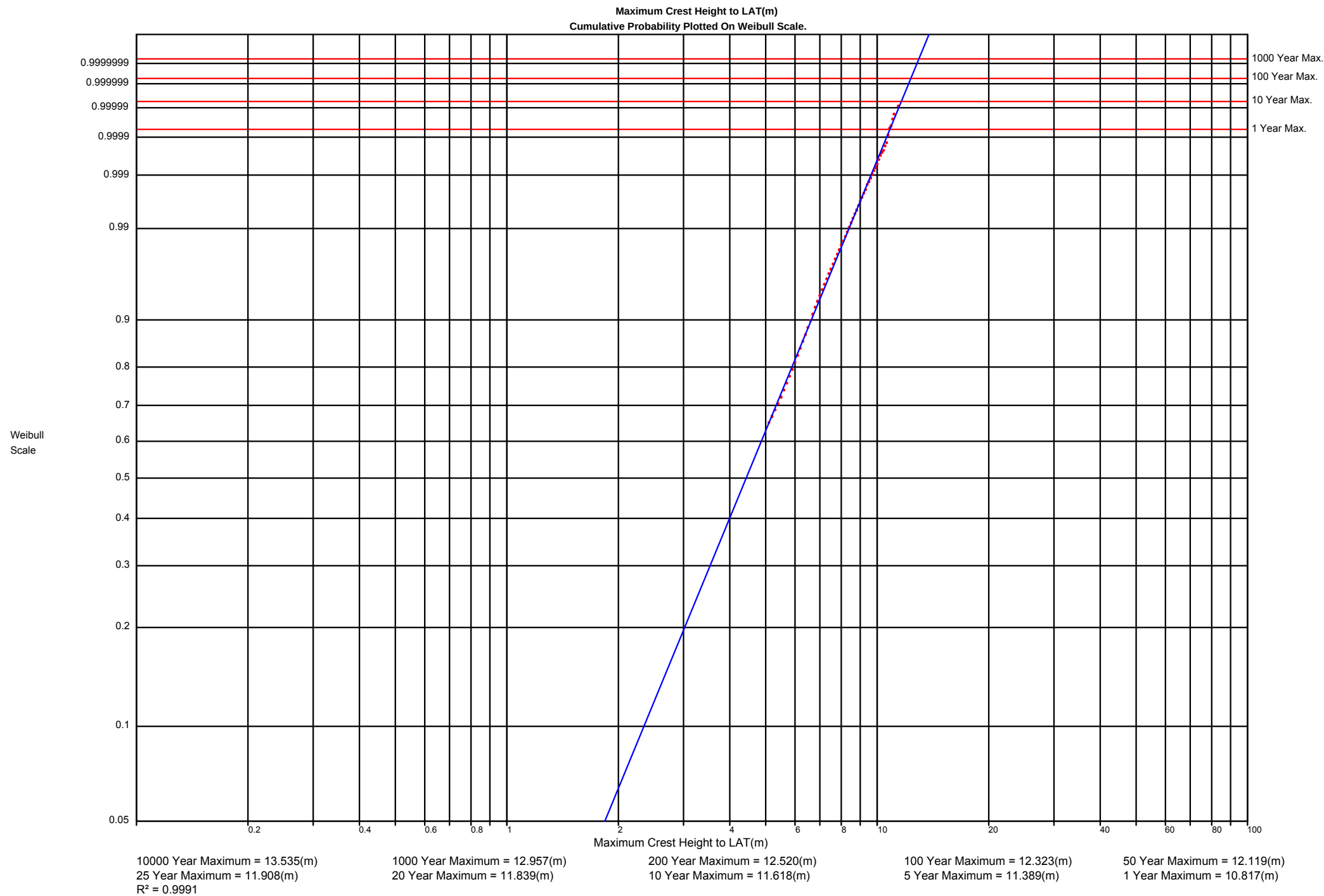
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Current Meter / AWAC
Serial No.: 1474









Appendix C

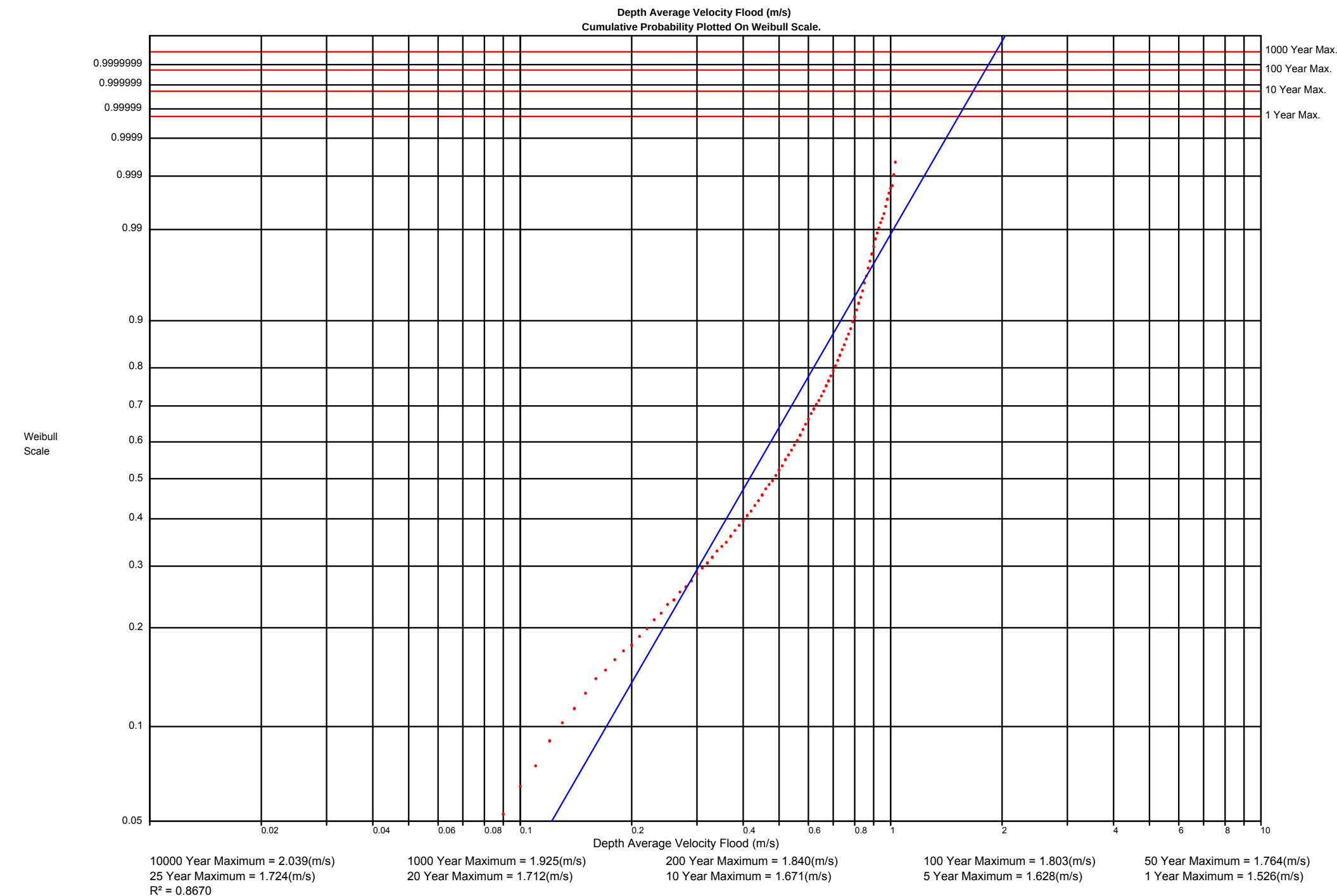
Data Presentation

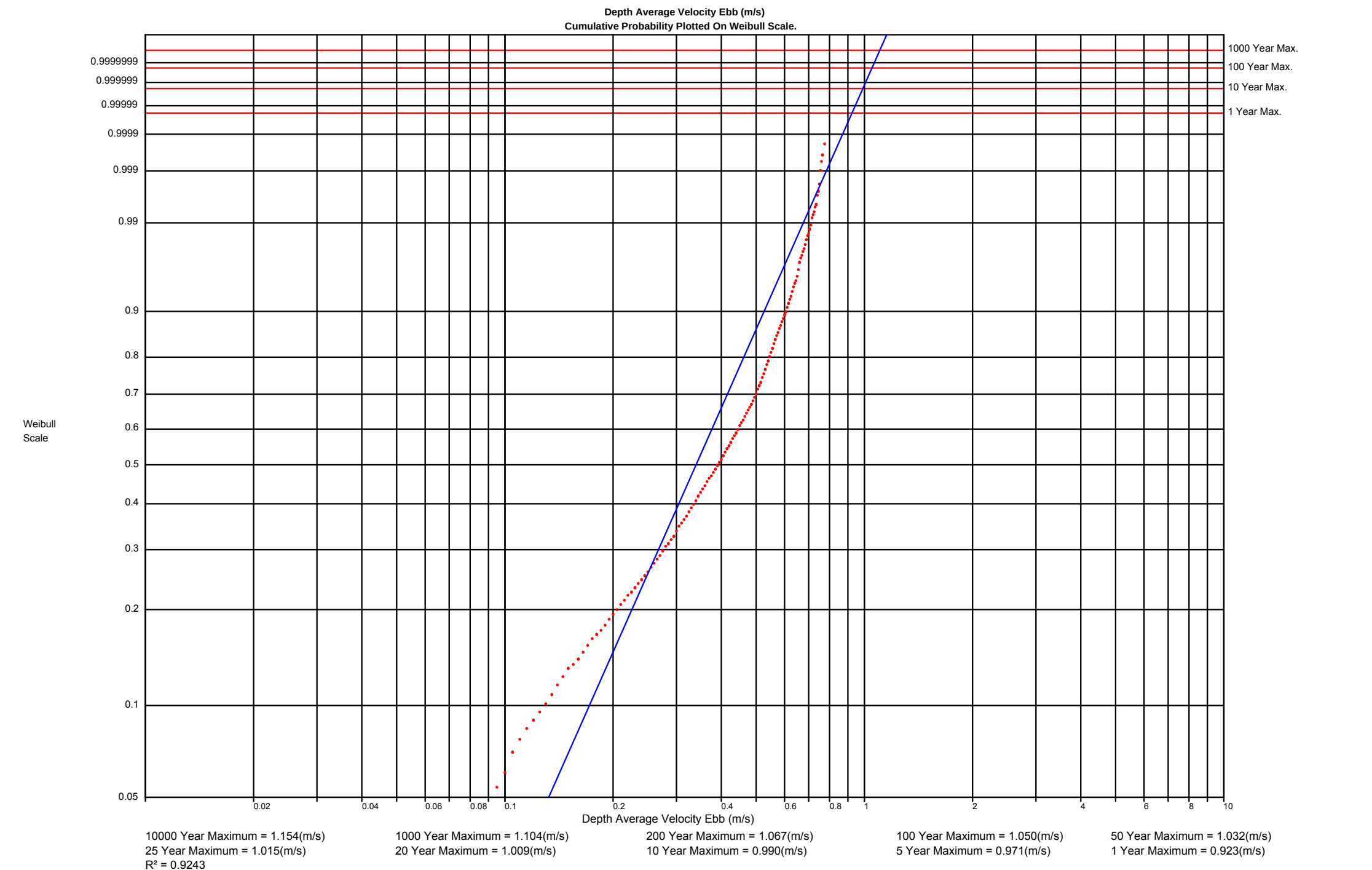
Currents

Figure/Table	Location/Data Source	Data Type	Parameters
Figure C001	Location 1	Statistical Distributions	Weibull Analysis of depth Averaged Flood Current Velocity
Figure C002	Location 1	Statistical Distributions	Weibull Analysis of depth Averaged Ebb Current Velocity
Figure C003	Location 2	Statistical Distributions	Weibull Analysis of depth Averaged Flood Current Velocity
Figure C004	Location 2	Statistical Distributions	Weibull Analysis of depth Averaged Ebb Current Velocity
Figure C005	Location 3	Statistical Distributions	Weibull Analysis of depth Averaged Flood Current Velocity
Figure C006	Location 3	Statistical Distributions	Weibull Analysis of depth Averaged Ebb Current Velocity
Table C001	Location 1	Frequency Table	H _s vs Depth Averaged Current Velocity
Table C002	Location 1	Frequency Table	H _s vs Depth Averaged Current Direction
Table C003	Location 2	Frequency Table	H _s vs Depth Averaged Current Velocity
Table C004	Location 2	Frequency Table	H _s vs Depth Averaged Current Direction
Table C005	Location 3	Frequency Table	H _s vs Depth Averaged Current Velocity
Table C006	Location 3	Frequency Table	H _s vs Depth Averaged Current Direction
Table C007	Location 1	Frequency Table	Current Speed against Direction – Depth Averaged – January
Figure C007	Location 1	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - January
Table C008	Location 1	Frequency Table	Current Speed against Direction – Depth Averaged – November
Figure C008	Location 1	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - November
Table C009	Location 1	Frequency Table	Current Speed against Direction – Depth Averaged – December
Figure C009	Location 1	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - December
Table C010	Location 2	Frequency Table	Current Speed against Direction – Depth Averaged – November
Figure C010	Location 2	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage

			Exceedance and Persistence of Velocity - November
Table C011	Location 2	Frequency Table	Current Speed against Direction – Depth Averaged – December
Figure C011	Location 2	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - December
Table C012	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – January
Figure C012	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - January
Table C013	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – February
Figure C013	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - February
Table C014	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – March
Figure C014	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - March
Table C015	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – April
Figure C015	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - April
Table C016	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – May
Figure C016	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - May
Table C017	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – November

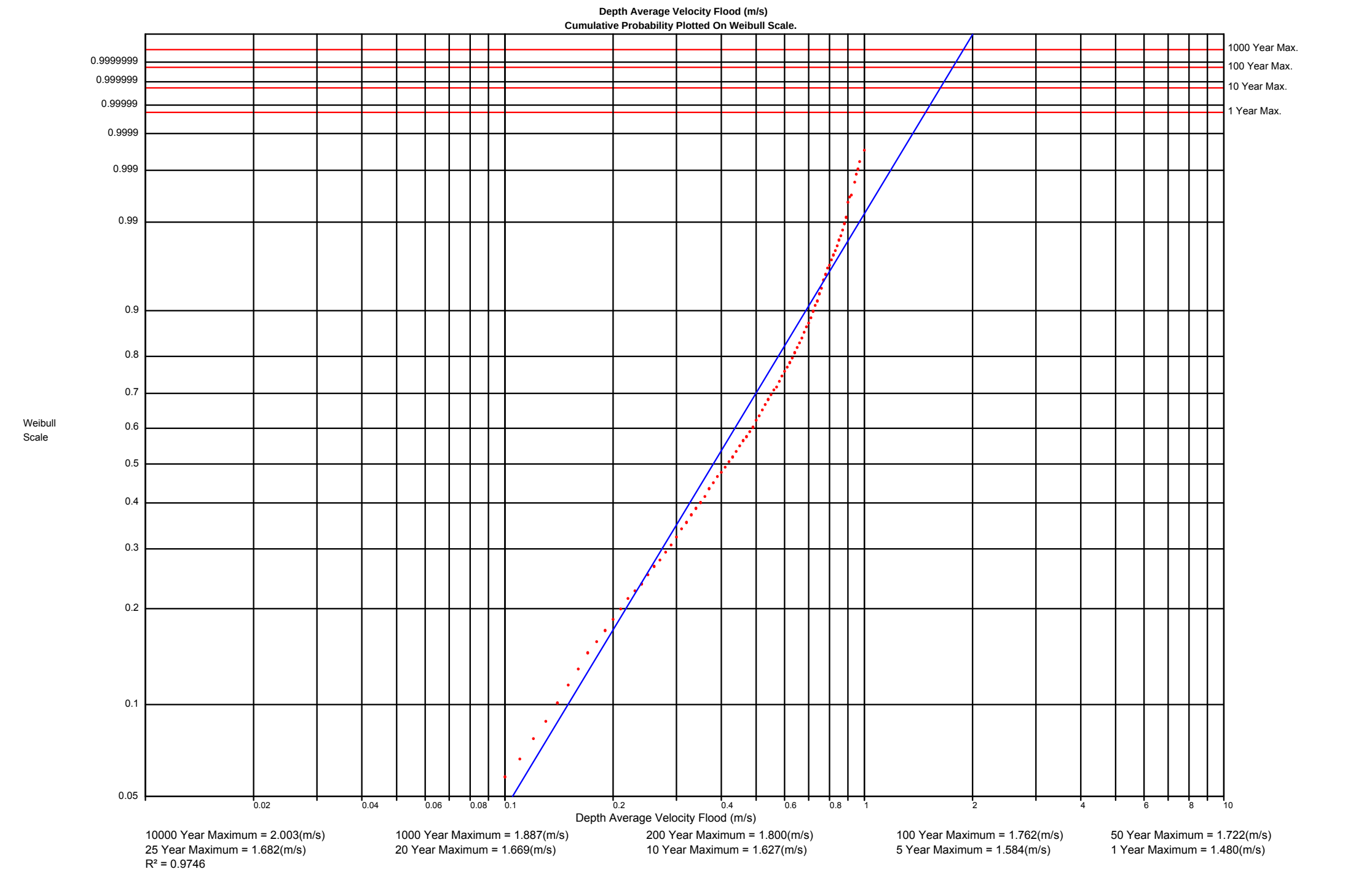
Figure C017	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity – November
Table C018	Location 3	Frequency Table	Current Speed against Direction – Depth Averaged – December
Figure C018	Location 3	Statistical Summary Plots	Percentage Occurrence of Depth Averaged Velocity and Direction. Percentage Exceedance and Persistence of Velocity - December





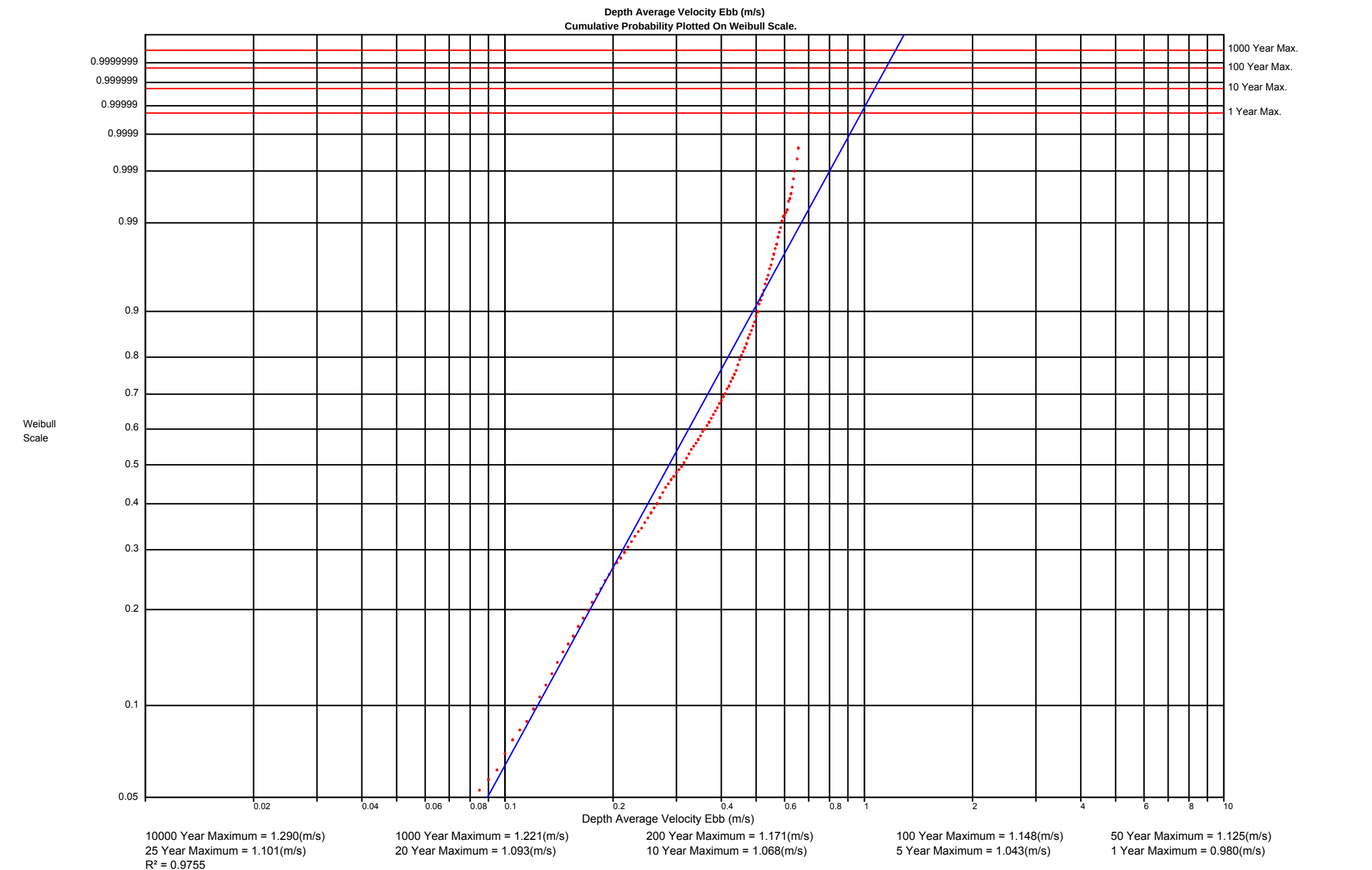
Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
 Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

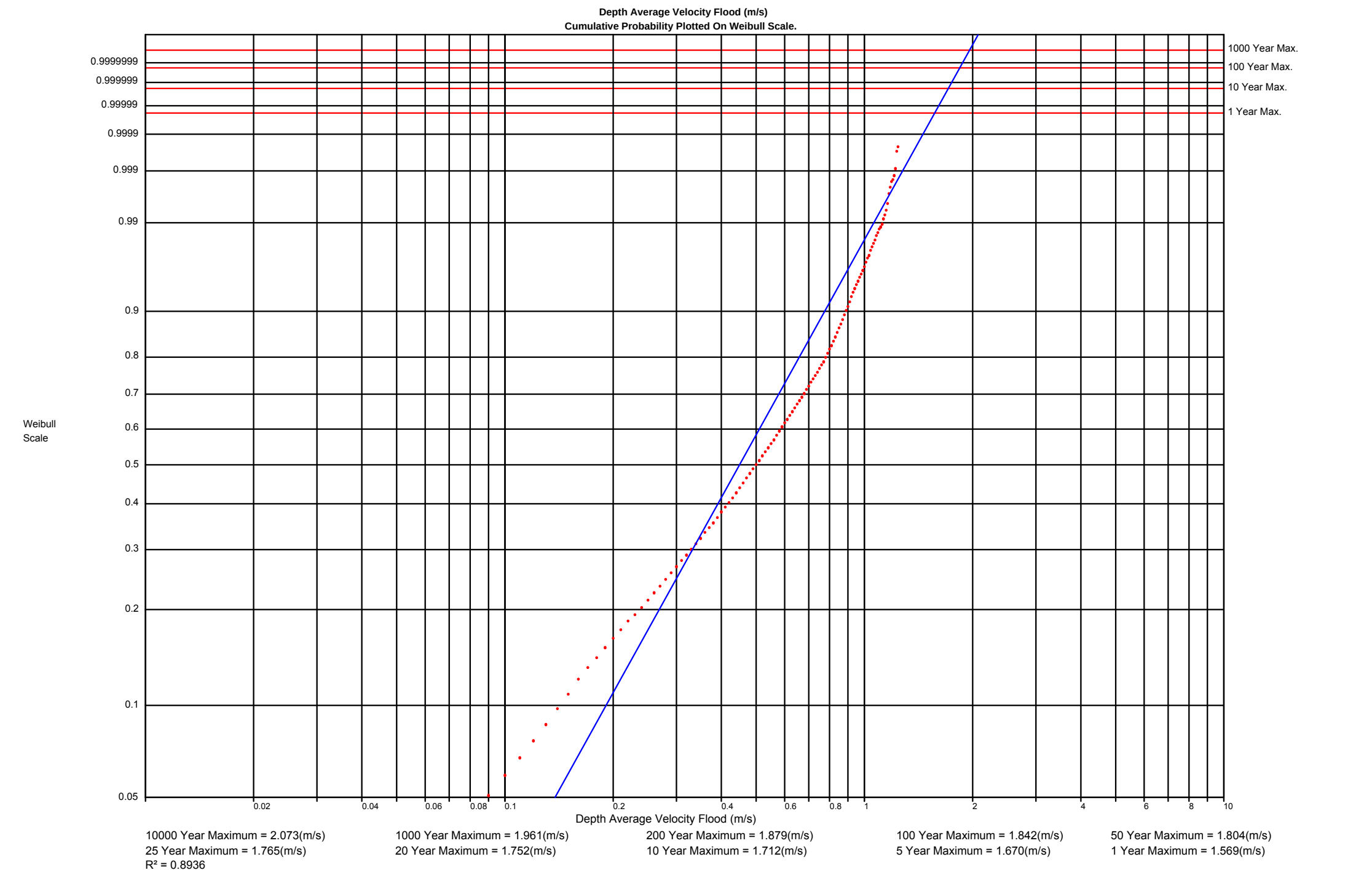
Current Meter / AWAC
 Serial No.: 720



Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
 Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

Current Meter / AWAC
 Serial No.: 720





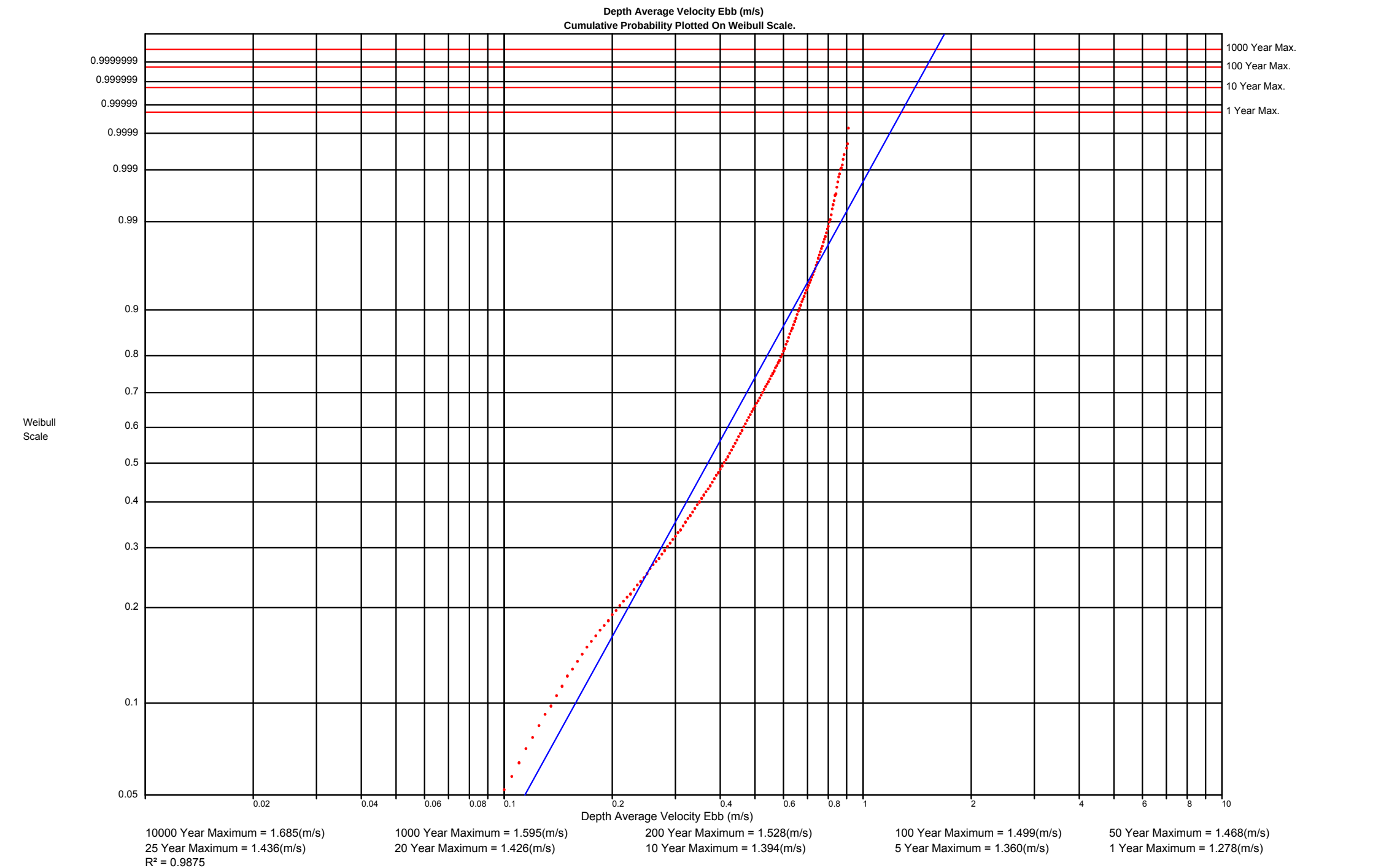
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Current Meter / AWAC
Serial No.: 0194

Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Job No: J/1/01/1743

Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 15:24 Recovered: 17/02/2011 16:55

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Significant Wave Height (m) against Depth Average Current Direction (°N)

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<0	Count	%
<10				3		1		1	1															6	0.391
<20		1		3	1			1	1	1														8	0.522
<30		1		1	1		2																	5	0.326
<40			3	5	6	2		1			1													18	1.174
<50			9	8	4	3		3	1		1			1										30	1.957
<60		4	22	31	19	11	5	4	6	6	2		1	2						1				114	7.436
<70		16	46	37	35	20	7	9	9	9	5	1	2	2	4	2			2	2				208	13.568
<80		21	42	44	17	14	8	6	5	4	1		3	2			3							170	11.089
<90		14	23	14	6	5	3	3	2		1			1			1							73	4.762
<100		1	3	8	2		2	3		1	1				1									22	1.435
<110		1	7		1	1	1						1											12	0.783
<120		1	4		1	1	1																	8	0.522
<130		1	1				1					1												4	0.261
<140		1	1		1		1	2						1										7	0.457
<150		1	1	1				1		1				1										6	0.391
<160		1	1	2																				4	0.261
<170			1	1		1																		3	0.196
<180		1	1										1											3	0.196
<190			1		1				1						2									5	0.326
<200		1	1	2		2			1															7	0.457
<210		1	3	1	1	1																		7	0.457
<220		1	4	4	3			3		1	2	1	2	2										23	1.500
<230		6	15	12	7	6	5	1	2	2	1		1											58	3.783
<240		28	61	46	31	15	7	11	8	5	5	2	1		1	1								222	14.481
<250	1	33	45	33	36	18	11	7	5	5	1	1	3		1									200	13.046
<260		16	30	26	23	10	8	4		4		1	1	1										124	8.089
<270		8	16	18	12	7	3	5	1	2	1	1			1									75	4.892
<280		5	11	8	2	8	3					1				1								39	2.544
<290		1	3	8	4	1	1	2				1												21	1.370
<300			1	5	7		2	1																16	1.044
<310		1	2	1	1																			5	0.326
<320		2	2	1	1				1															7	0.457
<330			1	1	1				2		1													6	0.391
<340		1	1	1			1																	4	0.261
<350			1	3	1																			5	0.326
<360				3	1	1	1	1							1									8	0.522
Count	1	169	363	331	226	128	73	69	46	41	24	9	16	13	11	4	4	2	3	0	0	0	0	1533	100
%	0.065	11.024	23.679	21.592	14.742	8.350	4.762	4.501	3.001	2.674	1.566	0.587	1.044	0.848	0.718	0.261	0.261	0.130	0.196	0.000	0.000	0.000	0.000	100	

Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployments 1 - 2

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Current Meter / AWAC
Serial No.: 0720

Frequency Distribution of Significant Wave Height (m) against Depth Average Velocity (m/s)																								Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<0		
<0.1		5	22	19	8	6	2	3	2	2	1	1				1	2		1					75	6.224
<0.2		12	64	50	24	13	7	7	8	3	5	1	1	1	3	2	1	1	1					204	16.929
<0.3		20	47	53	30	15	6	12	8	4	3	1	1	1	3	3	2	1						210	17.427
<0.4		12	56	59	35	16	8	6	4	4	5	2	2	3		1	1							214	17.759
<0.5		15	65	54	34	18	4	5	6	10	3	4	2	1	1					1	1			224	18.589
<0.6		8	29	38	21	17	7	6	6	3		2			2	1	2	1	1					144	11.950
<0.7		3	17	23	6	7	2		1	1	1	1		1	1					1				65	5.394
<0.8		2	9	13	5	3	1	2	2	2	2	1			1		1				1			45	3.734
<0.9			3	2	1	3	1		2			1	1		1		1		1	4				21	1.743
<1										1	2													3	0.249
<1.1																								0	0.000
<1.2																								0	0.000
<1.3																								0	0.000
<1.4																								0	0.000
<1.5																								0	0.000
Count	0	77	312	311	164	98	38	41	39	30	22	14	7	7	12	8	10	3	4	6	2	0	0	1205	100
%	0.000	6.390	25.892	25.809	13.610	8.133	3.154	3.402	3.237	2.490	1.826	1.162	0.581	0.581	0.996	0.664	0.830	0.249	0.332	0.498	0.166	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployments 1 - 2

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 11:10 Recovered: 18/02/2011 08:40

Current Meter / AWAC
Serial No.: 0720**Frequency Distribution of Significant Wave Height (m) against Depth Average Current Direction (°N)**

	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<0	Count	%
<10		1	2	5	2		1																	11	0.913
<20		2	3	1	2		1	1			1													11	0.913
<30		1	4	9				1	1		1						1			1				19	1.577
<40		1	9	12	9	3		1	2	1														38	3.154
<50		1	13	17	10	7	1	1	1	1	1	1		1				1						56	4.647
<60		6	46	44	19	16	10	2	6	3	3	1	1					1				1		159	13.195
<70		12	43	45	17	21	2	4	4	3	3	4	1	1	5		4			2		4		175	14.523
<80		2	11	7	3	2	2		2	5		1	1		1	1	1				1	1		41	3.402
<90			2	2		1						1	1	1							1			9	0.747
<100		1	2	1											1	1	1							7	0.581
<110					1	1	2									1								5	0.415
<120			1							1										1				3	0.249
<130						1																		1	0.083
<140																								0	0.000
<150															1									1	0.083
<160																								0	0.000
<170												1		1										2	0.166
<180				1																				1	0.083
<190							1	1	1															3	0.249
<200				1											1									2	0.166
<210		1	2													1								4	0.332
<220						1										1	1							3	0.249
<230		1	4	5	2	1			2	2	1			2	1	1	2							24	1.992
<240		20	41	34	15	12	6	4	6	6	4	3	2		1	1								155	12.863
<250		12	56	53	34	14	5	10	6	4	1	1			1									197	16.349
<260		7	22	24	18	4	2	4	1	1	2	1		1										87	7.220
<270		4	23	9	10	4	3	3	4	1	1					1								63	5.228
<280			6	13	8	2	1	2	2		2													36	2.988
<290		2	4	4	5	1		1																17	1.411
<300		1	4	6	1			3																15	1.245
<310		1	3	1	2	1							1											9	0.747
<320			3	5	1	2	1			1	1													14	1.162
<330			2	4		1		1			1													9	0.747
<340			3	4		2																		9	0.747
<350				1	3	1												1						6	0.498
<360		1	3	3	2			2	1	1														13	1.079
Count	0	77	312	311	164	98	38	41	39	30	22	14	7	7	12	8	10	3	4	6	2	0	0	1205	
%	0.000	6.390	25.892	25.809	13.610	8.133	3.154	3.402	3.237	2.490	1.826	1.162	0.581	0.581	0.996	0.664	0.830	0.249	0.332	0.498	0.166	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

		Frequency Distribution of Significant Wave Height (m) against Depth Average Velocity (m/s)																						Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<0		
<0.1		16	39	57	48	29	17	7	14	7	7	2	3	1	1				1					249	5.477
<0.2		30	102	129	91	73	41	35	20	16	10	2	1	3	3	4	1							561	12.341
<0.3		34	98	110	92	71	50	21	20	16	7	6	4	4		1			1					535	11.769
<0.4		40	105	161	105	82	40	28	15	24	11	7	4	3	2	3	1	1						632	13.902
<0.5		37	119	160	124	98	47	26	19	13	17	4	3	3	1	1								672	14.782
<0.6		43	127	127	103	92	49	24	26	20	16	4	3	2		1		1						638	14.034
<0.7		60	99	104	74	82	38	22	10	6	7	4	5	1		2				1				515	11.329
<0.8		41	74	75	45	36	22	5	11	5	1	2	5	2		2	1	1		1		1		330	7.259
<0.9		20	39	47	35	26	24	10	10	2	8	2						1			1			225	4.949
<1		13	15	27	16	12	7	5	4	5	3	2	1	1	2				1					114	2.508
<1.1		7	11	15	5	4	2		2	1		2							1					50	1.100
<1.2		4	8	3	1			1	1		1													19	0.418
<1.3		1	2	1	1	1																		6	0.132
<1.4																								0	0.000
<1.5																								0	0.000
Count	0	346	838	1016	740	606	337	184	152	115	88	37	29	20	9	14	3	4	4	2	1	1	0	4546	
%	0.000	7.611	18.434	22.349	16.278	13.330	7.413	4.048	3.344	2.530	1.936	0.814	0.638	0.440	0.198	0.308	0.066	0.088	0.088	0.044	0.022	0.022	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

		Frequency Distribution of Significant Wave Height (m) against Depth Average Direction (°N)																						Count	%
	<0.2	<0.4	<0.6	<0.8	<1	<1.2	<1.4	<1.6	<1.8	<2	<2.2	<2.4	<2.6	<2.8	<3	<3.2	<3.4	<3.6	<3.8	<4	<4.2	<4.4	<0		
<10			3	11	1	4	6	2																27	0.594
<20		1	8	9	8	5			1		1													33	0.726
<30		2	6	8	13	4	3	1	1							1								39	0.858
<40		3	10	18	14	8	8	3	1	3	2													70	1.540
<50		12	36	39	28	27	17	6	11	4	4			1	1	1								187	4.114
<60		44	102	132	79	80	42	23	26	13	10	5	1			1								558	12.275
<70		53	105	127	95	82	54	23	30	23	9	5	1	3	1	5	1	2	2					621	13.660
<80		21	49	76	63	54	27	12	17	6	8	6	5	3	2	1		1		2	1	1		355	7.809
<90		3	15	21	27	9	7	6	4	3	2	3	2	2	1		1	1						107	2.354
<100			3	12	1	5	2	4	1	2				1			1							32	0.704
<110			2	3	6	4	4		1		1													21	0.462
<120	1	2	3	4					2			1												13	0.286
<130		2	2	2	2	2					2		1		1	1								13	0.286
<140			1	3	4																			8	0.176
<150	1	1	4	2			1	2																11	0.242
<160		1	2			1							1											5	0.110
<170		2			1				1															4	0.088
<180		2	2	1	2	2				2														11	0.242
<190		2	1	3	4	3									1				1					15	0.330
<200		1	1	4	2		2		1	1		1												13	0.286
<210		3	5	3	2	2	3	1																19	0.418
<220		10	5	6	4	5	2		1			1	1											35	0.770
<230		9	28	24	15	10	5	8	4	3	2	2	3	1										114	2.508
<240		107	196	182	100	74	43	20	12	13	10	4	6	2		1								770	16.938
<250		40	124	130	85	87	38	16	7	14	17	4	4	1		1			1					569	12.516
<260		13	58	91	78	65	32	26	13	14	11	4	2	2	1	1								411	9.041
<270		4	26	46	34	31	18	14	3	4	1	1	1	3		1								187	4.114
<280		7	7	15	19	12	3	3	2	2	3													73	1.606
<290		3	9	17	21	8	5	3	3	2	1		1											73	1.606
<300		1	6	5	6	3		2	2	4														29	0.638
<310		2	4	5	2	1	2	1	1					1	1									20	0.440
<320			7	4	4	6	1	3																25	0.550
<330			5	3	5	4	4		2	1														24	0.528
<340		1	2	4	1	1	1	2	2		2													16	0.352
<350		1	1	1	4	2	3	1	2		1													16	0.352
<360		1	3	1	5	5	2	2	1	1	1													22	0.484
																								4546	100
Count	0	346	838	1016	740	606	337	184	152	115	88	37	29	20	9	14	3	4	4	2	1	1	0	4546	
%	0.000	7.611	18.434	22.349	16.278	13.330	7.413	4.048	3.344	2.530	1.936	0.814	0.638	0.440	0.198	0.308	0.066	0.088	0.088	0.044	0.022	0.022	0.000	100	

Frequency Table

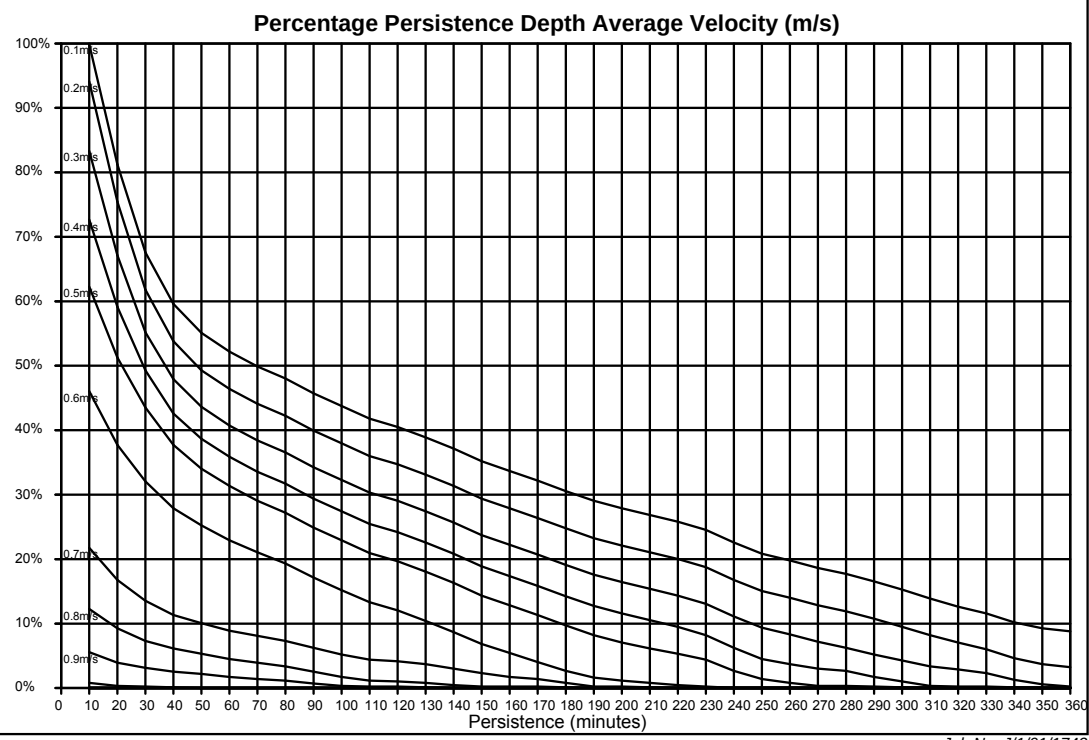
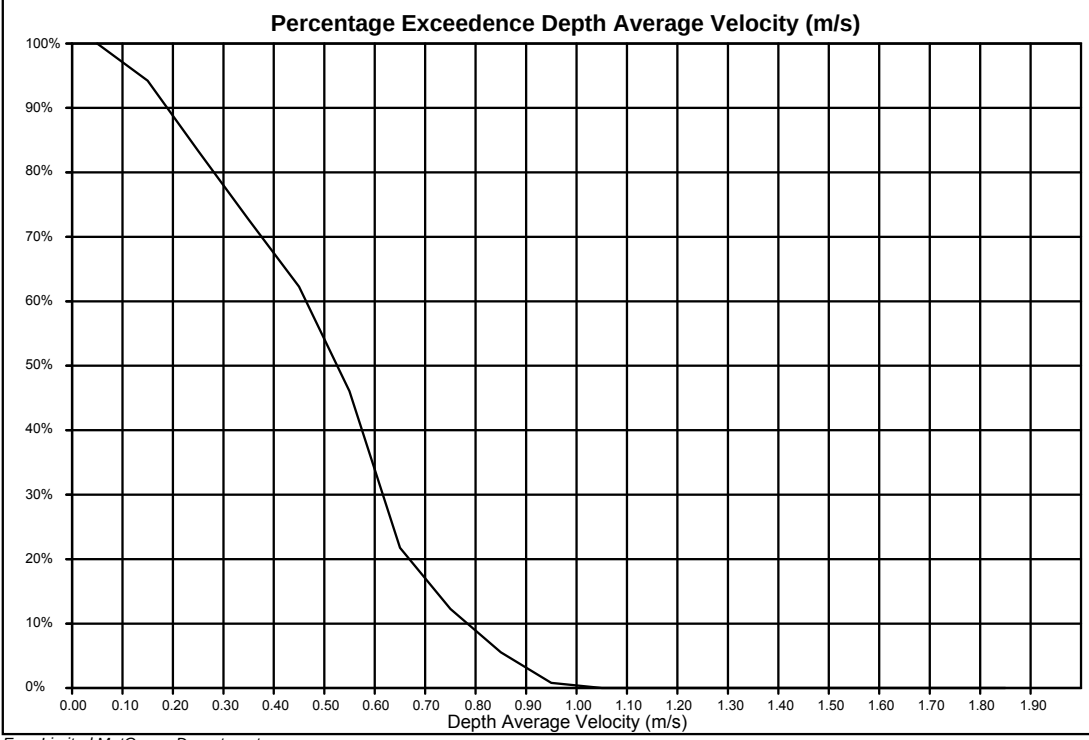
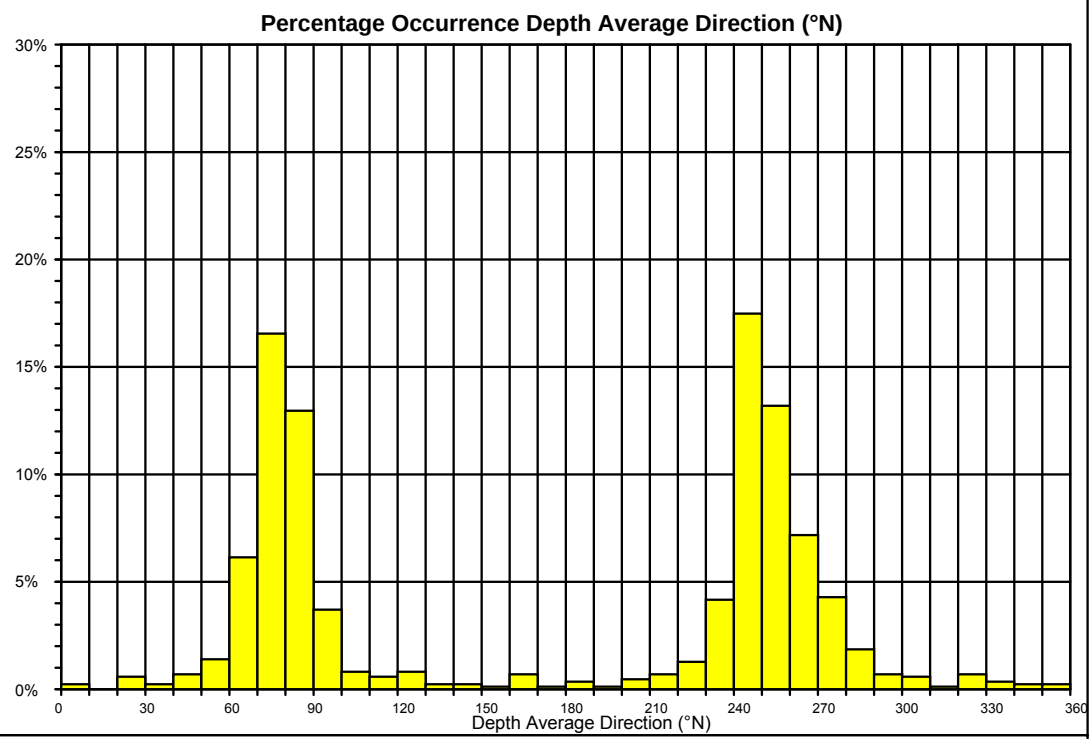
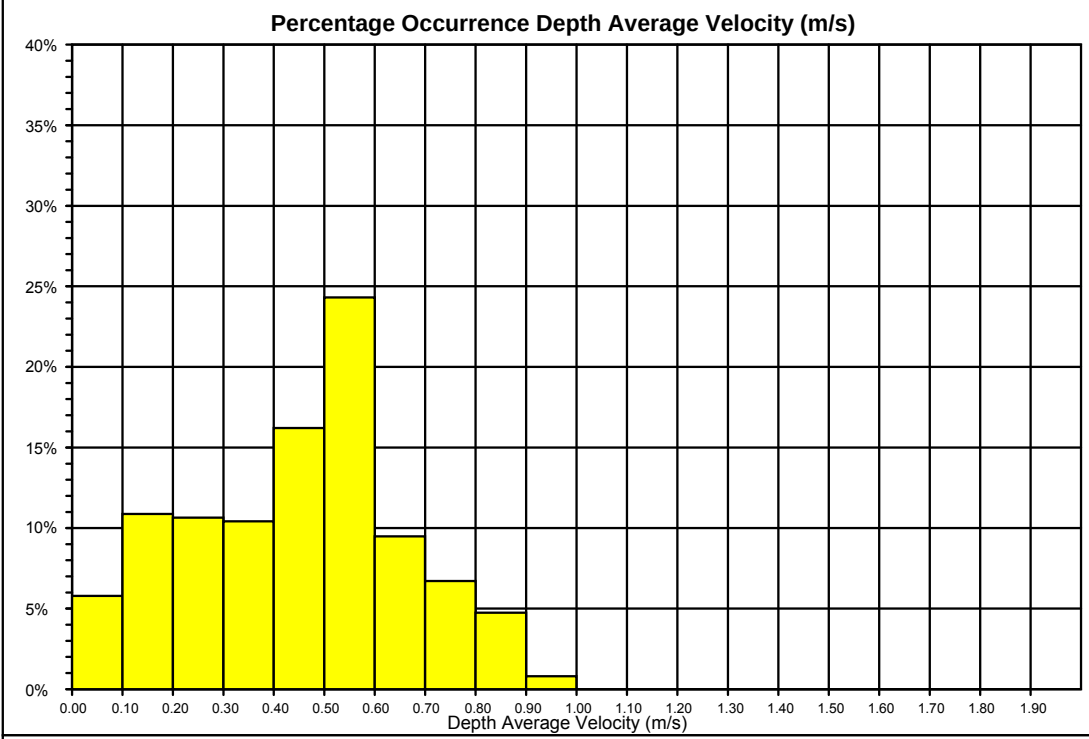
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Data for January

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																					Count	%
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2		
<10	2																				2	0.231
<20																					0	0.000
<30	3	2																			5	0.579
<40	1	1																			2	0.231
<50	2	3	1																		6	0.694
<60	1	3	4	4																	12	1.389
<70		7	11	10	12	5	7	1													53	6.134
<80		1	4	3	11	23	32	33	31	5											143	16.551
<90		1	4	10	16	25	22	22	10	2											112	12.963
<100	1	8	13	8	1	1															32	3.704
<110		4	2		1																7	0.810
<120	2	2	1																		5	0.579
<130	2	5																			7	0.810
<140	2																				2	0.231
<150	2																				2	0.231
<160		1																			1	0.116
<170	5	1																			6	0.694
<180	1																				1	0.116
<190	2	1																			3	0.347
<200	1																				1	0.116
<210	3	1																			4	0.463
<220	4	2																			6	0.694
<230	1	8	2																		11	1.273
<240	1	14	11	3	2	5															36	4.167
<250		5	14	30	45	52	5														151	17.477
<260			1	3	17	77	14	2													114	13.194
<270		2	5	5	26	22	2														62	7.176
<280		3	11	14	9																37	4.282
<290	1	7	8																		16	1.852
<300		6																			6	0.694
<310	3	2																			5	0.579
<320	1																				1	0.116
<330	3	3																			6	0.694
<340	3																				3	0.347
<350	1	1																			2	0.231
<360	2																				2	0.231
Count	50	94	92	90	140	210	82	58	41	7	0	0	0	0	0	0	0	0	0	0	864	100
%	5.787	10.880	10.648	10.417	16.204	24.306	9.491	6.713	4.745	0.810	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	



Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

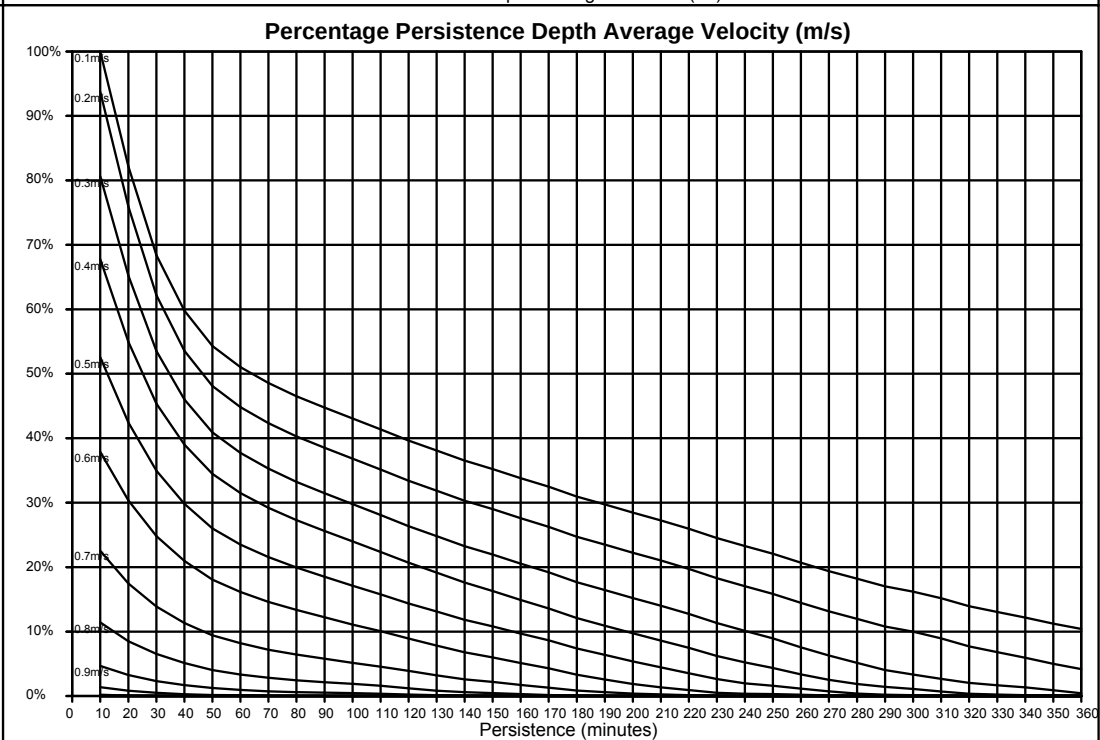
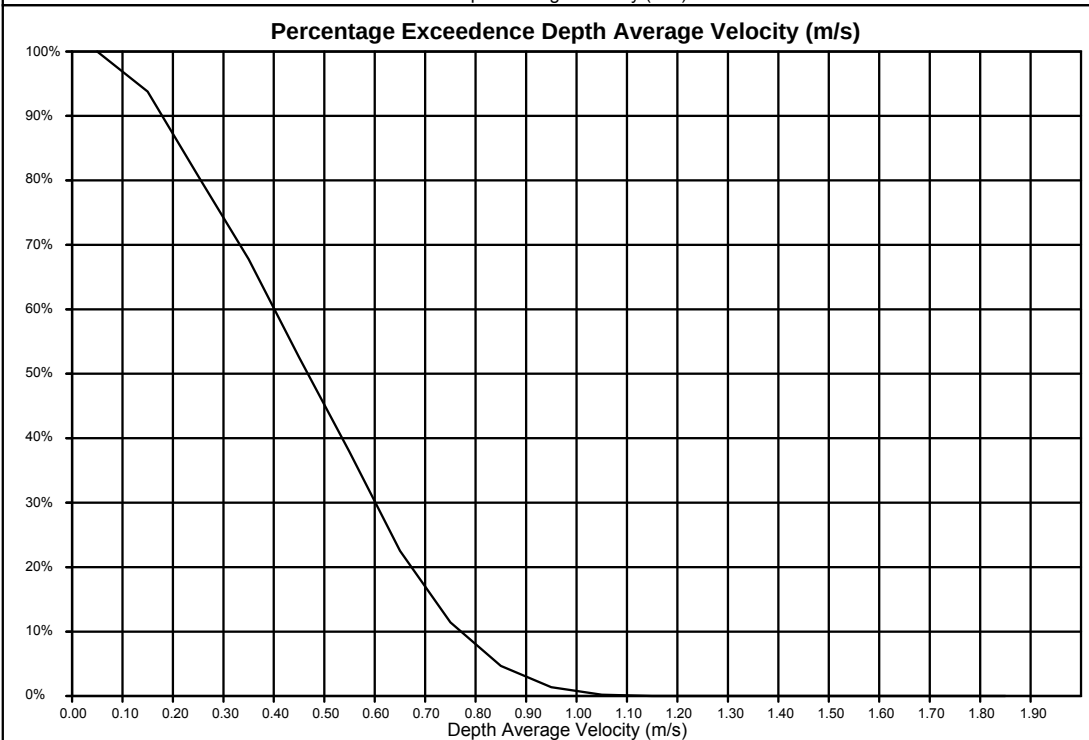
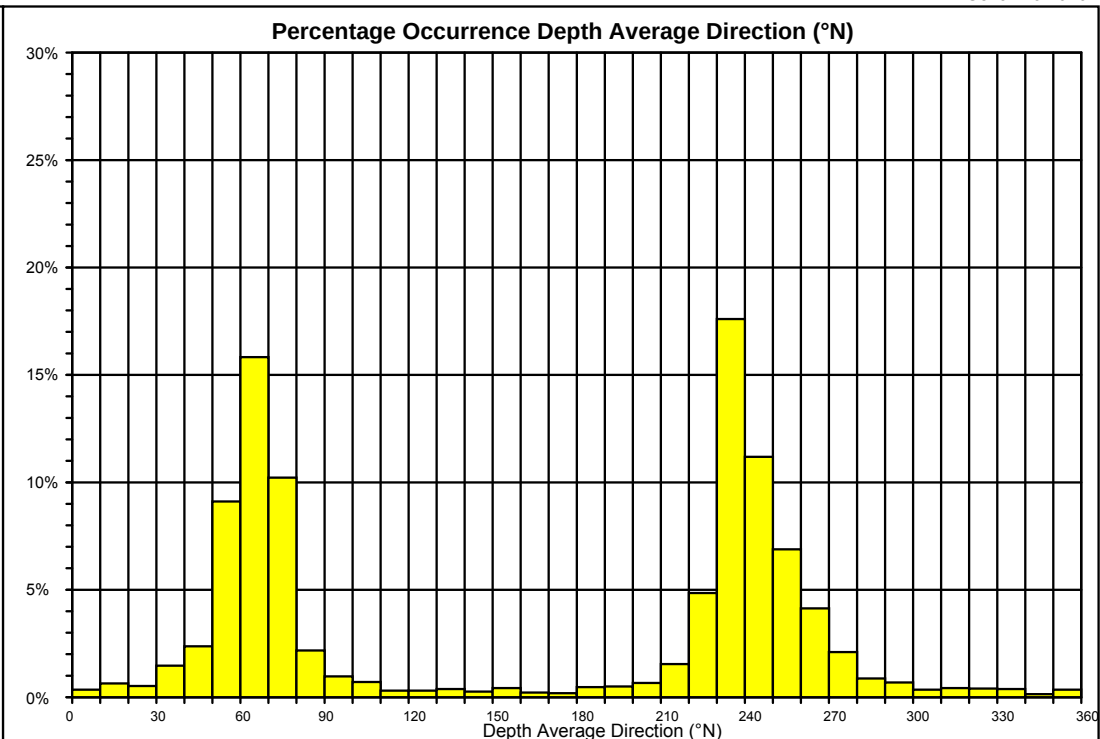
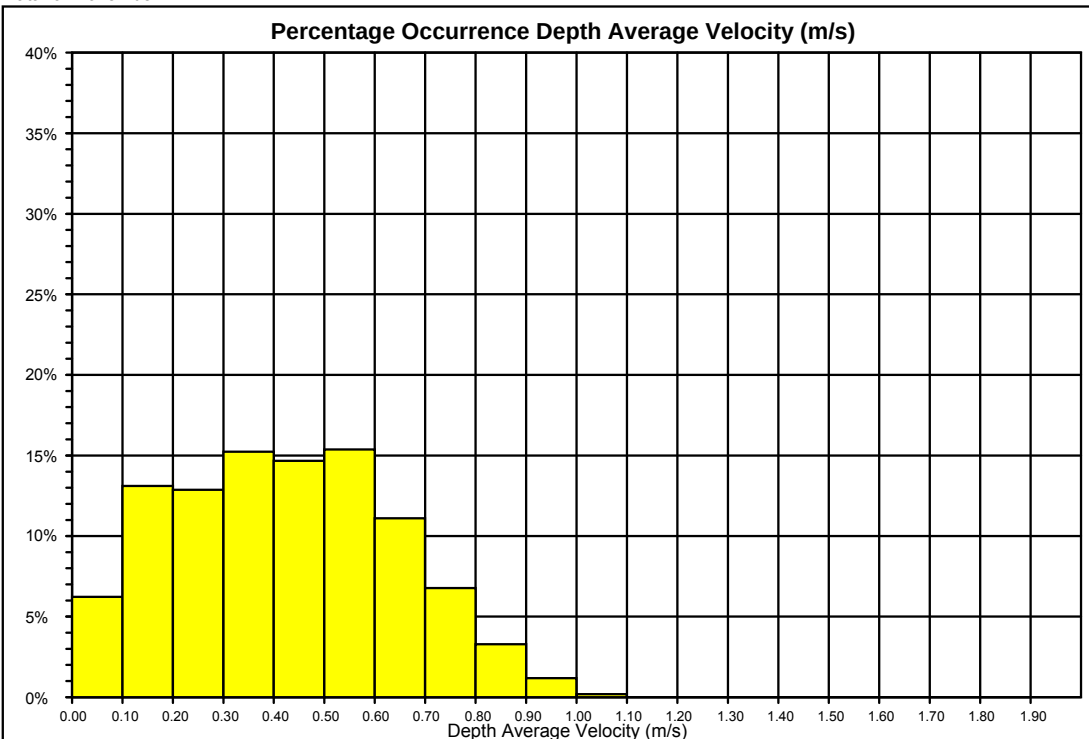
Data for November

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																					Count	%
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2		
<10	9	6																			15	0.355
<20	6	21																			27	0.639
<30	5	15	2																		22	0.520
<40	7	39	16																		62	1.467
<50	2	18	45	25	10																100	2.366
<60	3	17	33	52	74	77	69	39	20	1											385	9.108
<70	2	5	11	41	59	112	129	158	99	46	7										669	15.827
<80	1	13	47	83	92	76	56	40	20	3	1										432	10.220
<90	1	36	37	15	2		1														92	2.176
<100	8	27	5	1																	41	0.970
<110	9	20	1																		30	0.710
<120	9	4																			13	0.308
<130	10	3																			13	0.308
<140	15	1																			16	0.379
<150	9	2																			11	0.260
<160	15	3																			18	0.426
<170	9																				9	0.213
<180	5	3																			8	0.189
<190	14	6																			20	0.473
<200	13	8																			21	0.497
<210	14	14																			28	0.662
<220	9	46	6	4																	65	1.538
<230	4	72	77	40	11	1															205	4.850
<240	1	12	98	159	182	190	85	17													744	17.601
<250		9	30	107	82	120	96	29													473	11.190
<260	2	9	50	55	75	64	33	3													291	6.884
<270	4	25	46	57	33	10															175	4.140
<280	6	41	37	5																	89	2.106
<290	4	30	3																		37	0.875
<300	9	20																			29	0.686
<310	8	7																			15	0.355
<320	11	7																			18	0.426
<330	11	6																			17	0.402
<340	13	3																			16	0.379
<350	5	1																			6	0.142
<360	10	5																			15	0.355
																					4227	100
Count	263	554	544	644	620	650	469	286	139	50	8	0	0	0	0	0	0	0	0	0	4227	
%	6.222	13.106	12.870	15.235	14.668	15.377	11.095	6.766	3.288	1.183	0.189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m
Data for November

Current Meter / AWAC
Serial No.: 0194



Frequency Table

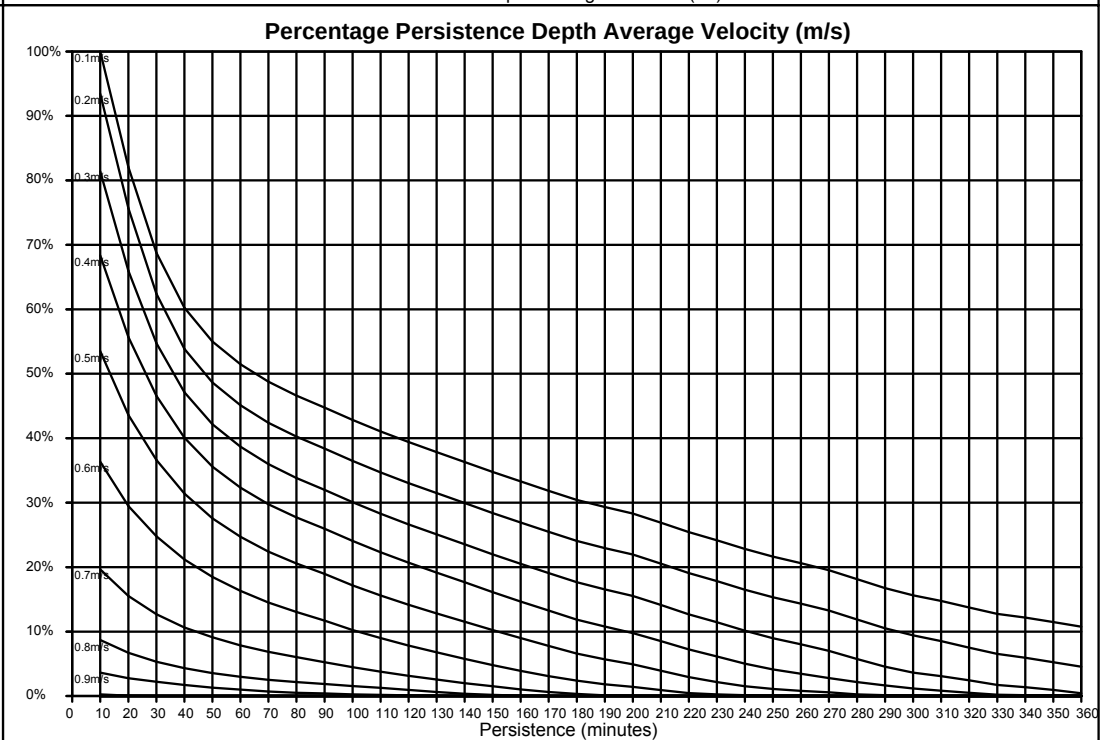
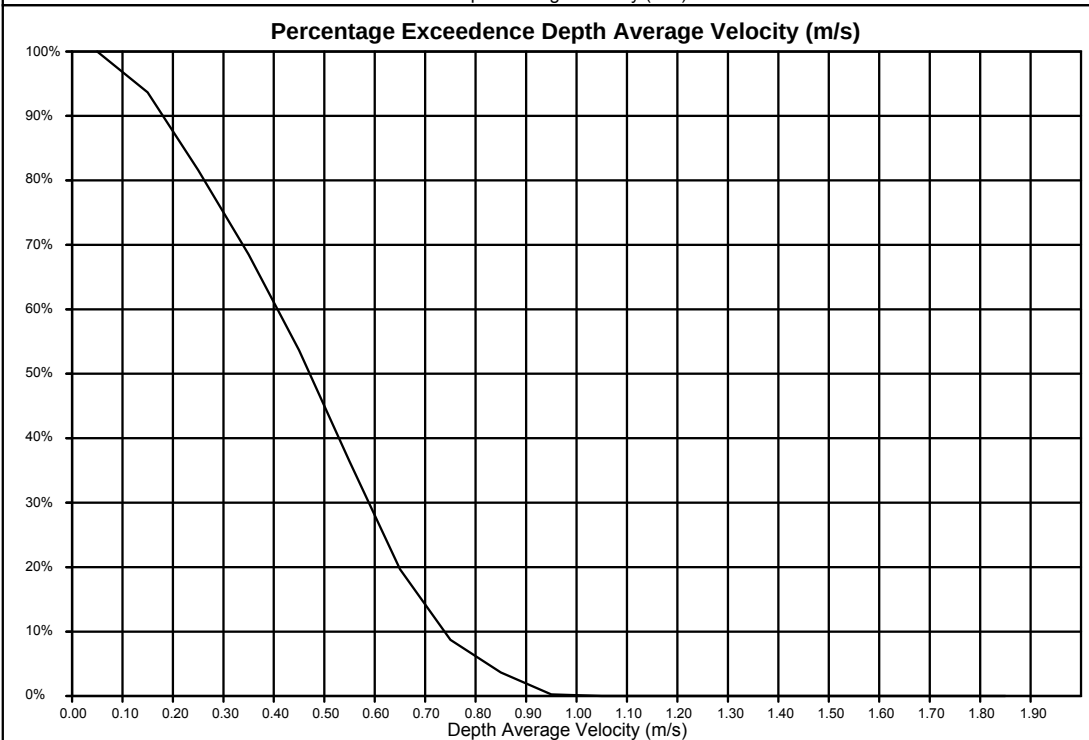
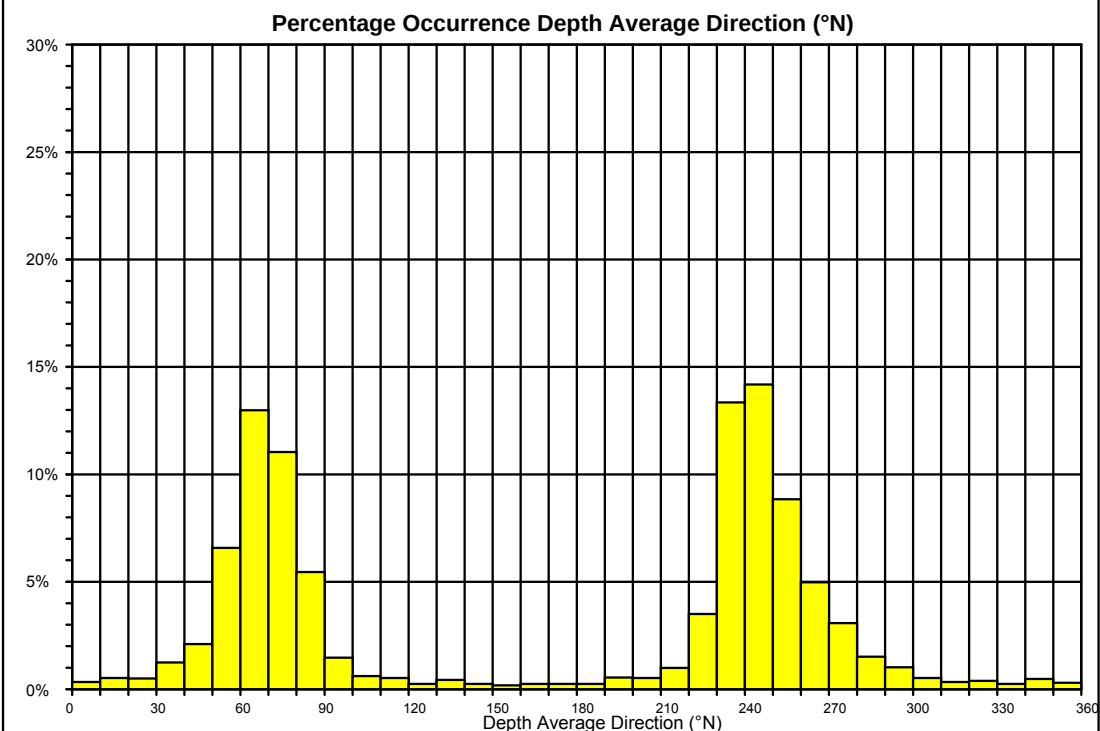
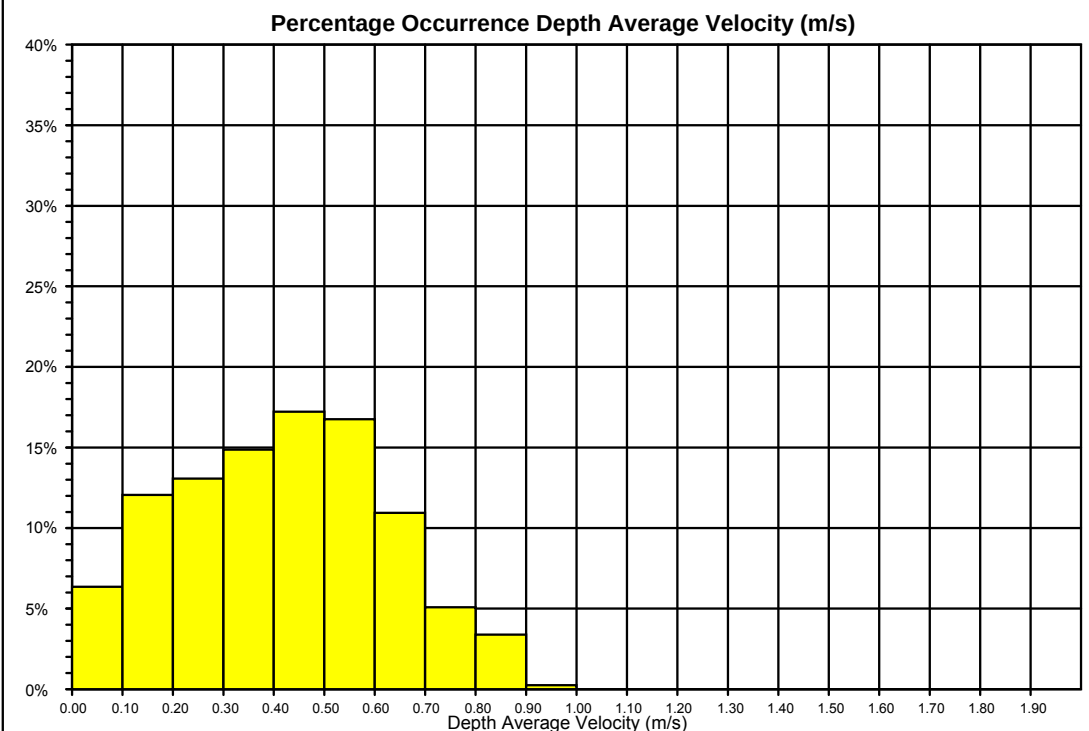
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Data for December

Current Meter / AWAC
Serial No.: 0194

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																					Count	%
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2		
<10	5	10																			15	0.339
<20	8	14	1																		23	0.520
<30	5	12	5																		22	0.498
<40	3	36	14	2																	55	1.244
<50	4	26	30	26	5	2															93	2.104
<60	1	20	43	40	53	49	54	26	4	1											291	6.582
<70	4	5	35	62	119	106	86	87	64	6											574	12.983
<80	2	11	43	59	61	92	78	68	71	3											488	11.038
<90	4	31	37	27	43	37	29	22	10	1											241	5.451
<100	9	26	19	10	1																65	1.470
<110	10	14	3																		27	0.611
<120	16	6	1																		23	0.520
<130	8	3																			11	0.249
<140	17	2																			19	0.430
<150	10	1																			11	0.249
<160	8																				8	0.181
<170	10	1																			11	0.249
<180	9	2																			11	0.249
<190	9	2																			11	0.249
<200	18	6																			24	0.543
<210	13	8	2																		23	0.520
<220	12	26	4	1	1																44	0.995
<230	11	61	44	20	11	6	2														155	3.506
<240	9	38	84	116	145	147	51														590	13.345
<250	3	12	82	135	140	173	82														627	14.182
<260	2	15	23	55	114	93	75	13	1												391	8.844
<270	2	18	32	57	49	28	25	9													220	4.976
<280	7	22	42	36	19	8	2														136	3.076
<290	4	28	24	11																	67	1.515
<300	5	32	8																		45	1.018
<310	12	10	1																		23	0.520
<320	4	11																			15	0.339
<330	9	7	1																		17	0.385
<340	8	3																			11	0.249
<350	12	9																			21	0.475
<360	8	5																			13	0.294
Count	281	533	578	657	761	741	484	225	150	11	0	0	0	0	0	0	0	0	0	0	4421	100
%	6.356	12.056	13.074	14.861	17.213	16.761	10.948	5.089	3.393	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	



Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

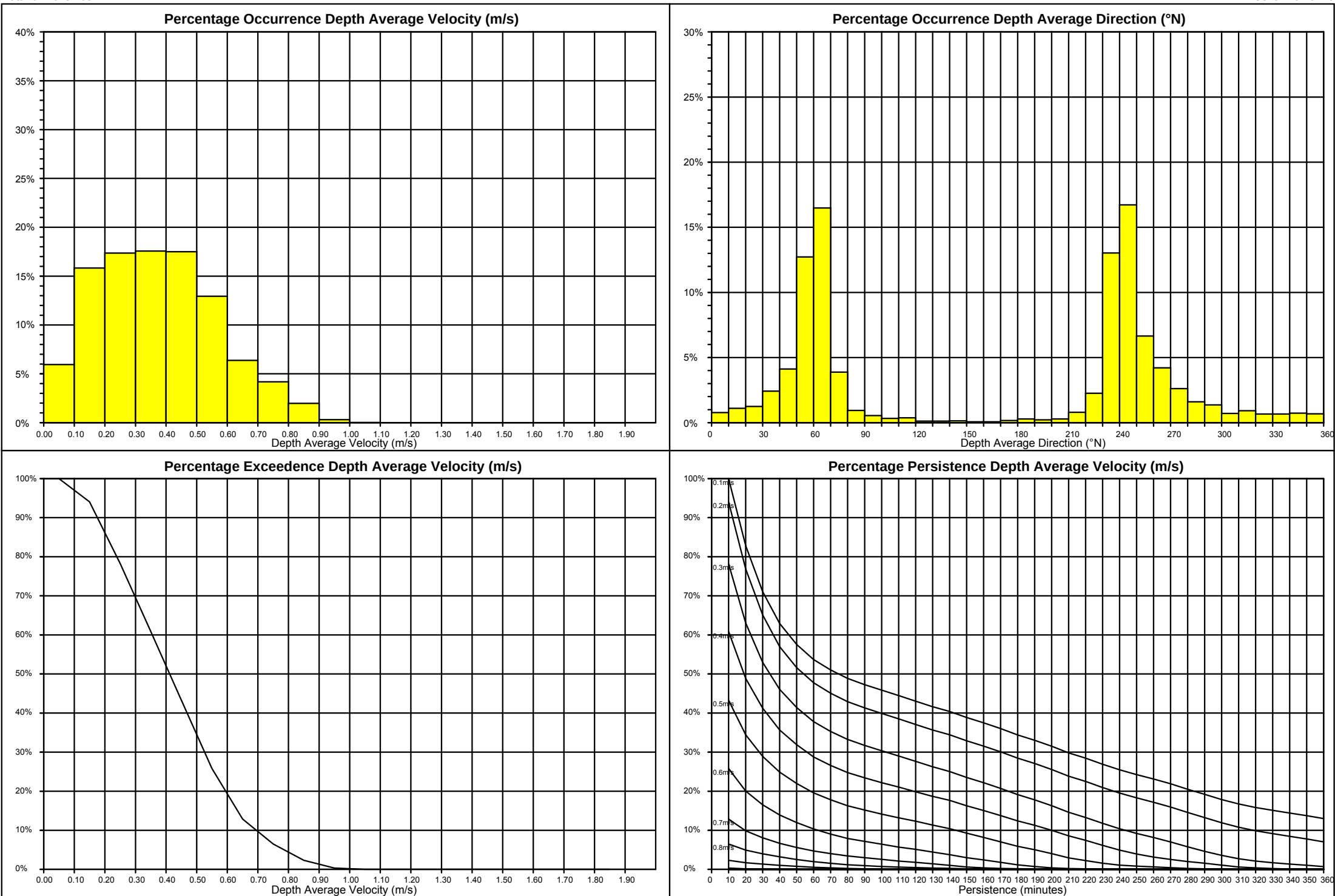
Data for November

Current Meter / AWAC
Serial No.: 0720

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																					Count	%
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2		
<10	9	23	1																		33	0.776
<20	8	30	9																		47	1.105
<30	7	25	21																		53	1.246
<40	3	23	46	29	2																103	2.422
<50	6	21	34	51	42	17	4														175	4.116
<60	8	30	37	59	83	122	107	60	34	1											541	12.723
<70	10	25	60	89	120	115	116	109	44	12	1										701	16.486
<80	11	18	16	43	28	20	14	9	6												165	3.881
<90	8	13	7	6	3	2	1														40	0.941
<100	10	6	6	1																	23	0.541
<110	5	8	1																		14	0.329
<120	8	6	2																		16	0.376
<130	4	1																			5	0.118
<140	4	1																			5	0.118
<150	2	4																			6	0.141
<160	1	1	1																		3	0.071
<170	1	2																			3	0.071
<180	3	4																			7	0.165
<190	8	4																			12	0.282
<200	3	6																			9	0.212
<210	5	7																			12	0.282
<220	11	19	3	1																	34	0.800
<230	12	33	27	17	7																96	2.258
<240	12	46	82	108	154	137	15														554	13.029
<250	13	42	151	166	208	117	14														711	16.722
<260	6	36	78	78	66	19															283	6.656
<270	11	21	53	67	26	1															179	4.210
<280	11	19	48	28	5																111	2.611
<290	3	29	33	3																	68	1.599
<300	8	33	16	1																	58	1.364
<310	7	18	5																		30	0.706
<320	8	30	1																		39	0.917
<330	7	21																			28	0.659
<340	7	21																			28	0.659
<350	7	24																			31	0.729
<360	6	23																			29	0.682
Count	253	673	738	747	744	550	271	178	84	13	1	0	0	0	0	0	0	0	0	0	4252	100
%	5.950	15.828	17.357	17.568	17.498	12.935	6.373	4.186	1.976	0.306	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Data for November

Current Meter / AWAC
Serial No.: 0720



Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

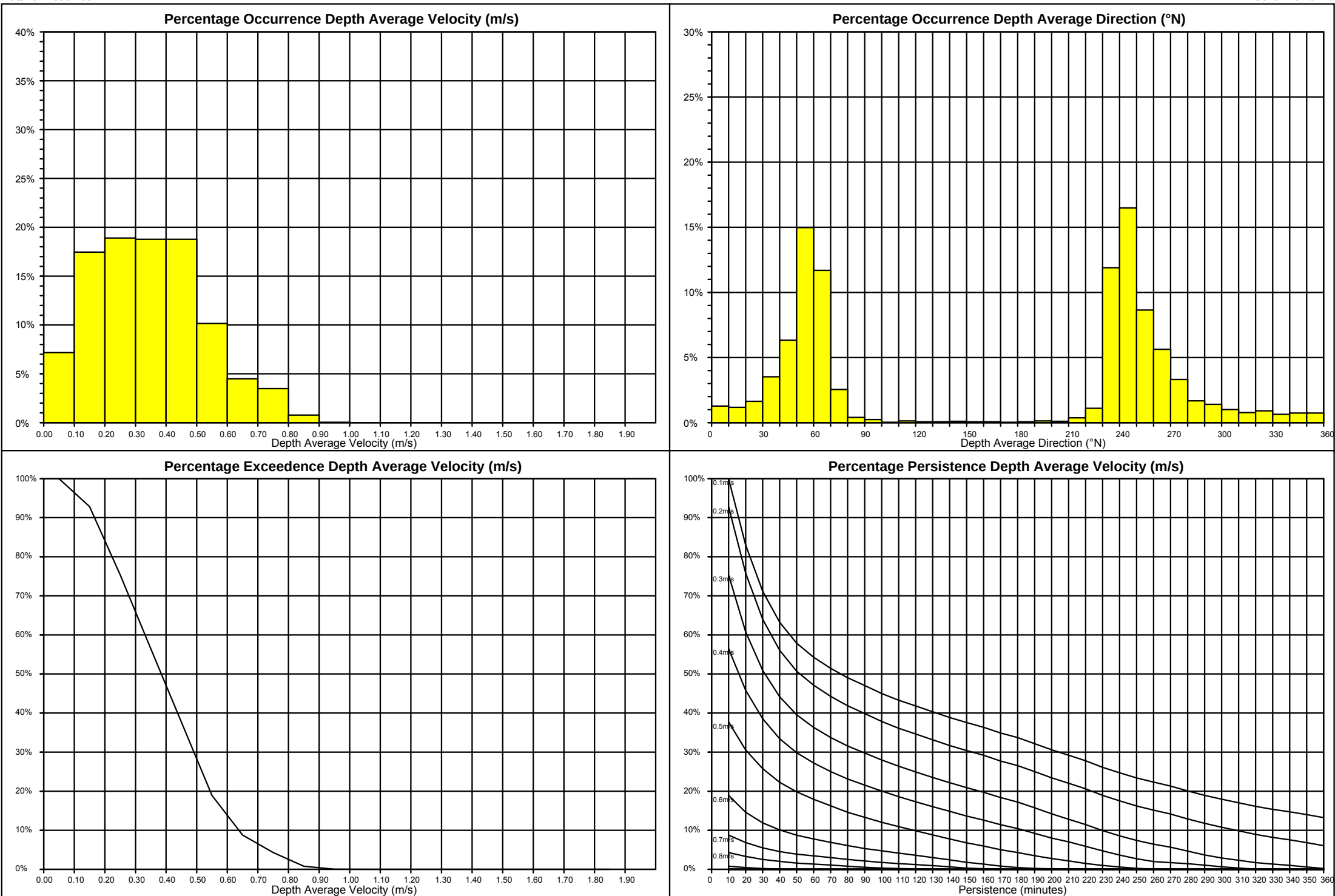
Data for December

Current Meter / AWAC
Serial No.: 0720

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																					Count	%
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2		
<10	13	23	2																		38	1.273
<20	7	22	6																		35	1.173
<30	7	20	21	1																	49	1.642
<40	5	23	42	31	4																105	3.519
<50	4	19	43	55	44	20	4														189	6.334
<60	9	29	39	65	68	68	83	75	10	1											447	14.980
<70	8	17	44	51	69	78	41	28	13												349	11.696
<80	7	13	10	20	12	8	5	1													76	2.547
<90	3	5	2	1	1																12	0.402
<100	5	1	1																		7	0.235
<110	1																				1	0.034
<120	3	1																			4	0.134
<130	2																				2	0.067
<140	2																				2	0.067
<150	2	1																			3	0.101
<160	1	1																			2	0.067
<170	2																				2	0.067
<180	1																				1	0.034
<190	2																				2	0.067
<200	2	1	1																		4	0.134
<210	2	1																			3	0.101
<220	4	5	2																		11	0.369
<230	7	9	6	6	5																33	1.106
<240	7	34	62	68	117	67															355	11.897
<250	7	58	81	122	169	54	1														492	16.488
<260	7	39	69	81	54	8															258	8.646
<270	11	37	61	43	16																168	5.630
<280	19	25	38	16	1																99	3.318
<290	9	20	21																		50	1.676
<300	12	22	8																		42	1.408
<310	10	19	1																		30	1.005
<320	5	16	2																		23	0.771
<330	6	20	1																		27	0.905
<340	4	15																			19	0.637
<350	9	13																			22	0.737
<360	9	12	1																		22	0.737
Count	214	521	564	560	560	303	134	104	23	1	0	0	0	0	0	0	0	0	0	0	2984	100
%	7.172	17.460	18.901	18.767	18.767	10.154	4.491	3.485	0.771	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m
Data for December

Current Meter / AWAC
Serial No.: 0720



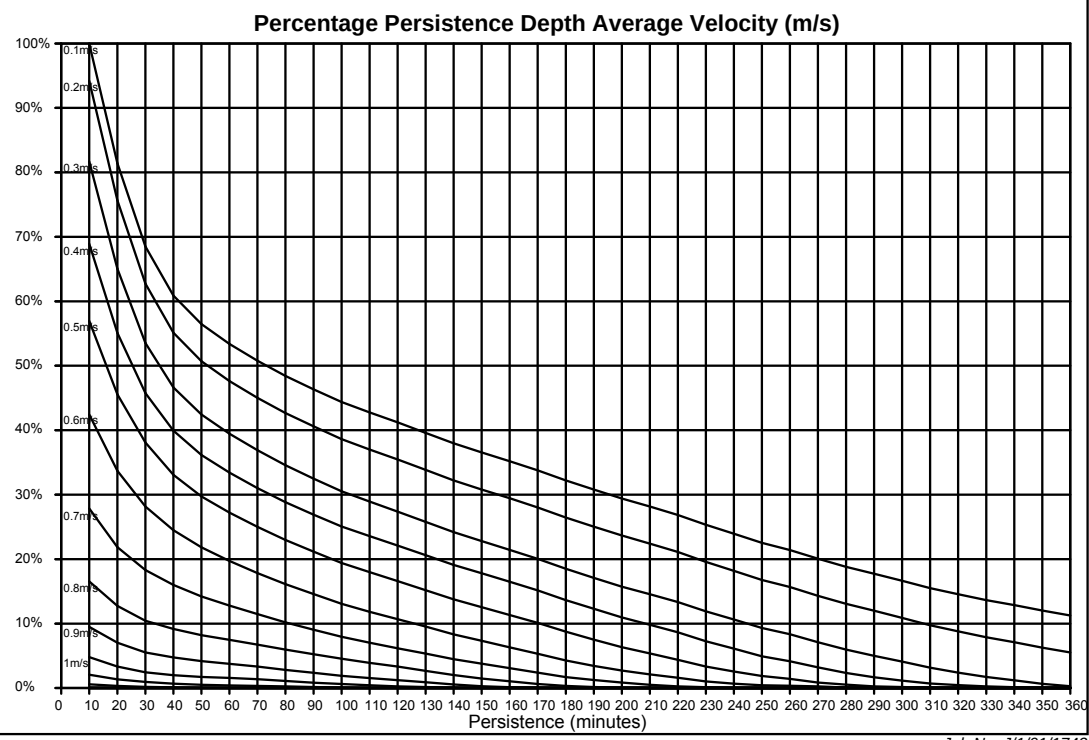
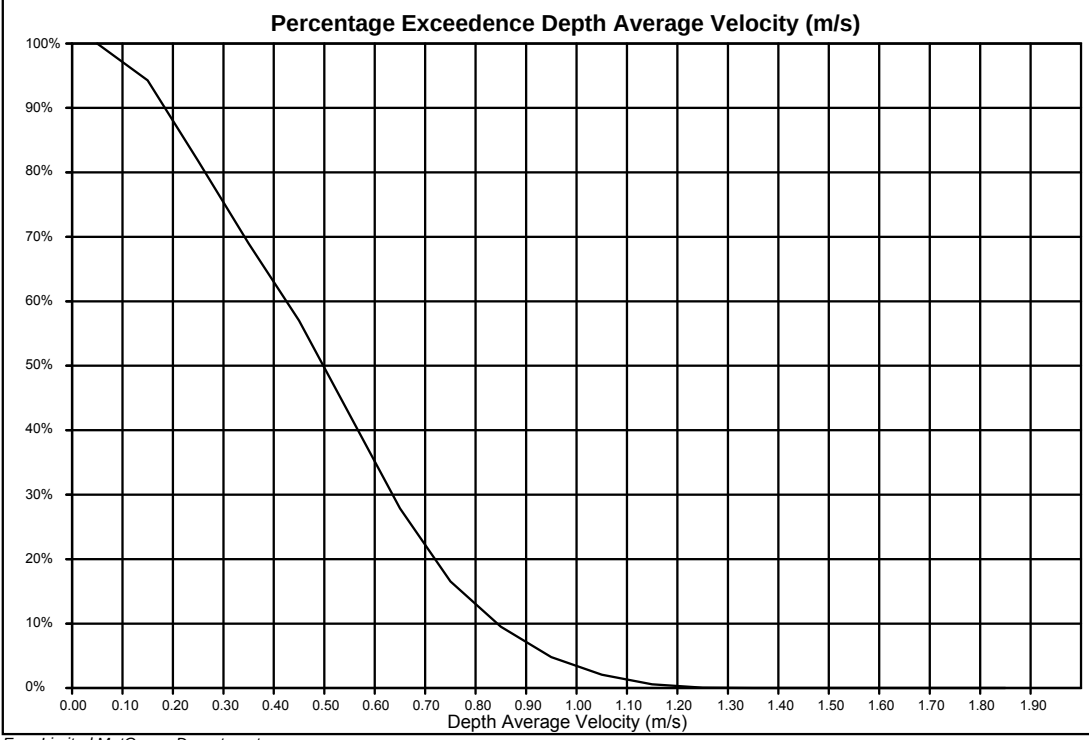
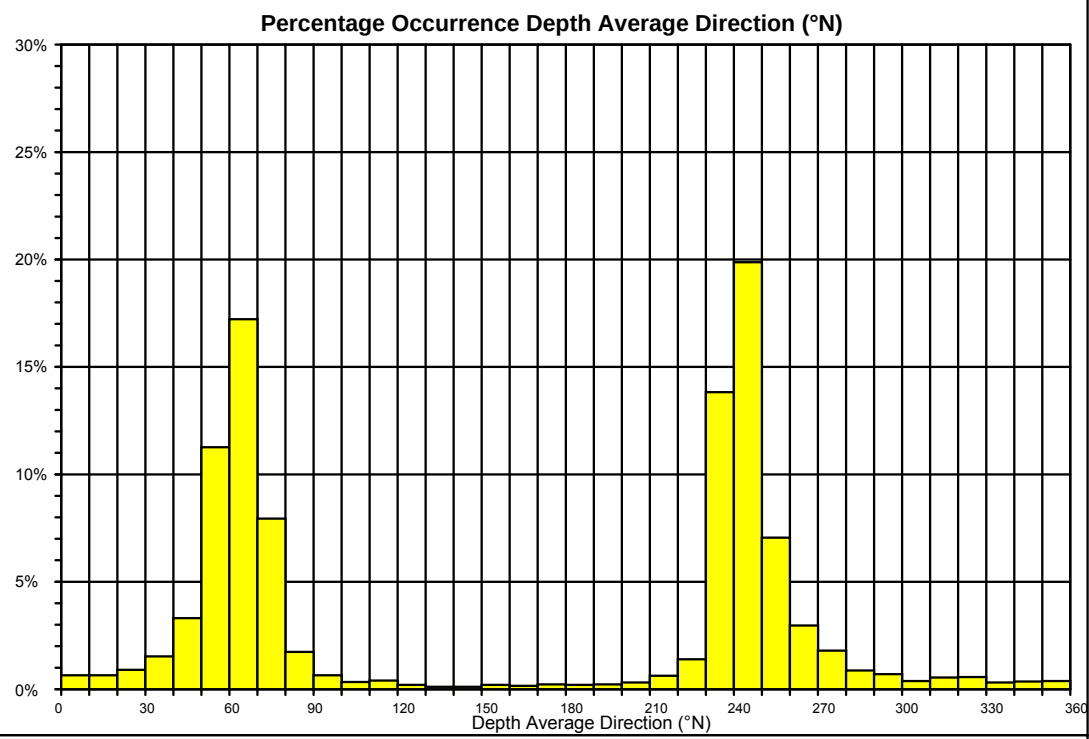
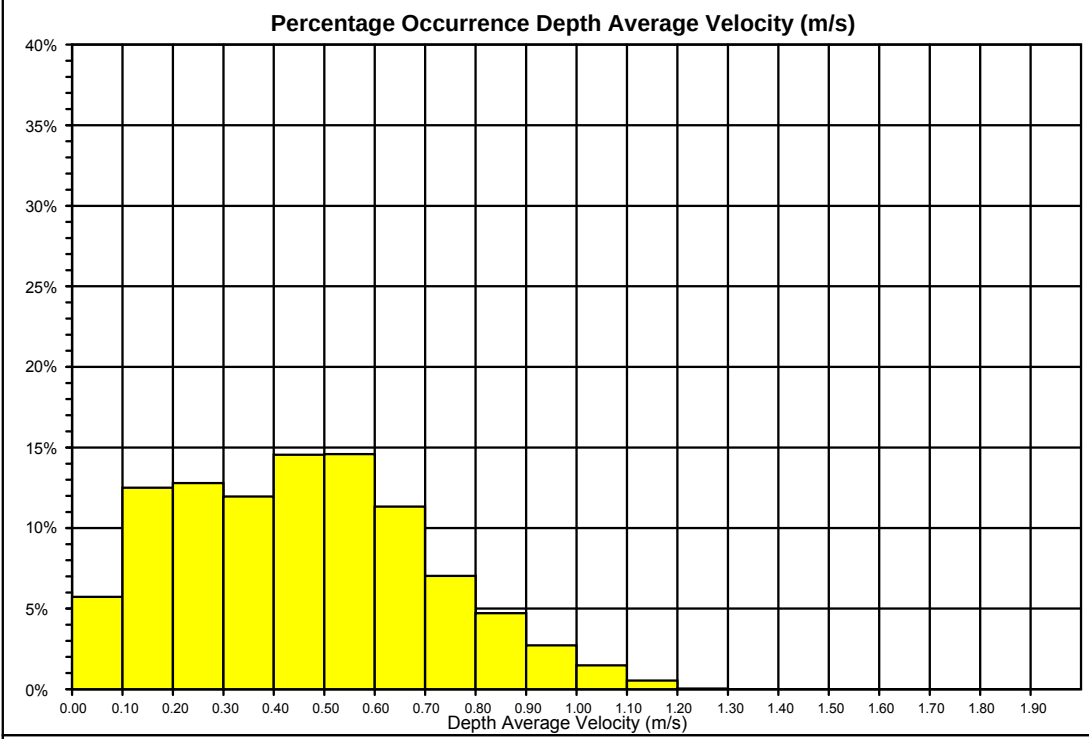
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for January

Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10	8	21																			29	0.652
<20	5	20	4																		29	0.652
<30	3	30	7																		40	0.899
<40	2	24	40	2																	68	1.529
<50	3	15	61	42	17	8		1													147	3.305
<60	6	7	30	50	88	107	72	51	43	32	13	2									501	11.263
<70	5	10	21	32	92	139	86	95	121	88	53	22	2								766	17.221
<80	3	38	51	73	70	52	41	21	3	1											353	7.936
<90	15	36	21	5																	77	1.731
<100	7	20	2																		29	0.652
<110	13	2																			15	0.337
<120	15	3																			18	0.405
<130	8	1																			9	0.202
<140	5																				5	0.112
<150	5																				5	0.112
<160	9																				9	0.202
<170	7																				7	0.157
<180	10																				10	0.225
<190	6	3																			9	0.202
<200	9	1																			10	0.225
<210	11	3																			14	0.315
<220	12	14	1	1																	28	0.629
<230	14	32	11	3	2																62	1.394
<240	10	48	94	107	116	94	96	41	9												615	13.826
<250	6	25	69	98	174	189	189	100	34												884	19.874
<260	8	24	55	70	75	58	20	4													314	7.059
<270		20	55	42	13	2															132	2.968
<280	3	33	37	7																	80	1.799
<290	7	26	6																		39	0.877
<300	2	27	2																		31	0.697
<310	5	12																			17	0.382
<320	4	19	1																		24	0.540
<330	12	13																			25	0.562
<340	7	7																			14	0.315
<350	3	12	1																		16	0.360
<360	7	10																			17	0.382
																					4448	100
Count	255	556	569	532	647	649	504	313	210	121	66	24	2	0	0	0	0	0	0	0	4448	
%	5.733	12.500	12.792	11.960	14.546	14.591	11.331	7.037	4.721	2.720	1.484	0.540	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for February

Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10	10	12																			22	0.546
<20	7	12	5																		24	0.595
<30	4	22	15																		41	1.017
<40		31	24	23	4																82	2.034
<50	1	16	42	47	31	30	19	17	6	2	1										212	5.258
<60	2	3	21	51	80	78	66	76	87	81	67	41	13								666	16.518
<70	4	13	26	69	100	82	84	86	51	31	7	1									554	13.740
<80	6	38	54	48	16	11	2	2		1											178	4.415
<90	6	29	6																		41	1.017
<100	14	10	2																		26	0.645
<110	9	5																			14	0.347
<120	11	1																			12	0.298
<130	10																				10	0.248
<140	9																				9	0.223
<150	7																				7	0.174
<160	12																				12	0.298
<170	5	1																			6	0.149
<180	13	1																			14	0.347
<190	9	1																			10	0.248
<200	14	4																			18	0.446
<210	8	6	1																		15	0.372
<220	13	28	6																		47	1.166
<230	6	41	55	30	15	5	1														153	3.795
<240	4	35	89	129	199	179	172	109	20												936	23.214
<250	1	27	49	71	104	93	67	22													434	10.764
<260	5	22	37	43	44	15	1														167	4.142
<270	3	31	26	33	1																94	2.331
<280	4	22	20	3																	49	1.215
<290	7	24	10																		41	1.017
<300	7	17	1																		25	0.620
<310	5	12	2																		19	0.471
<320	9	11																			20	0.496
<330	8	13																			21	0.521
<340	5	8																			13	0.322
<350	10	11																			21	0.521
<360	7	12																			19	0.471
Count	255	519	491	547	594	493	412	312	164	115	75	42	13	0	0	0	0	0	0	0	4032	100
%	6.324	12.872	12.178	13.566	14.732	12.227	10.218	7.738	4.067	2.852	1.860	1.042	0.322	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Statistical Summary Plots for

Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 3, Deployments 1 - 3

E.ON Climate and Renewables UK Rampion Offshore Wind Limited

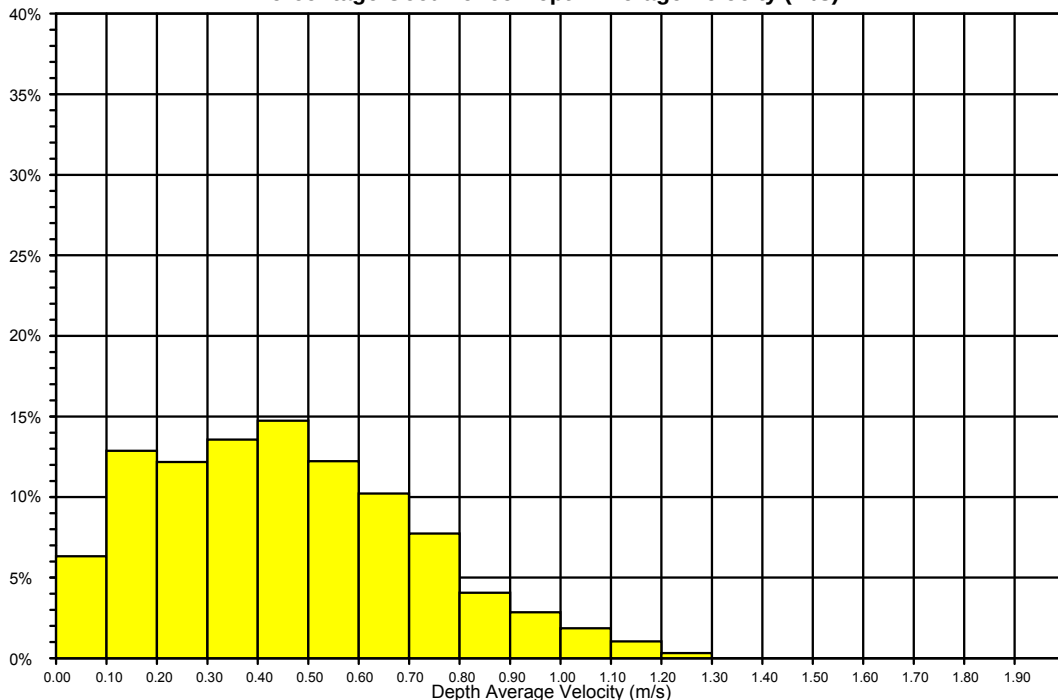
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

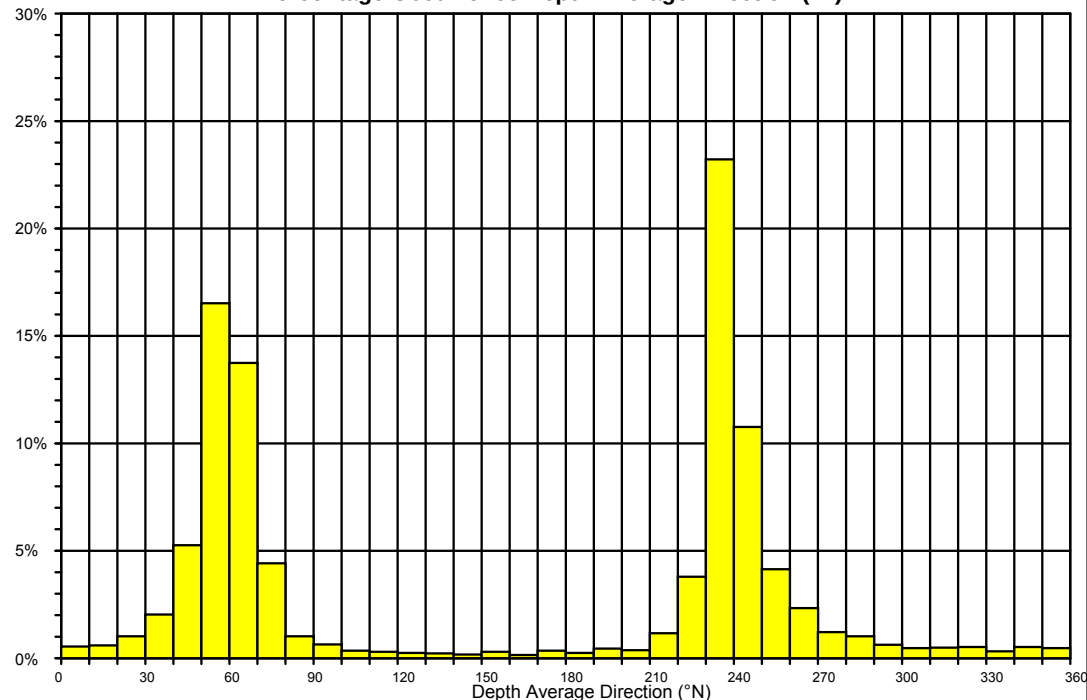
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Data for February

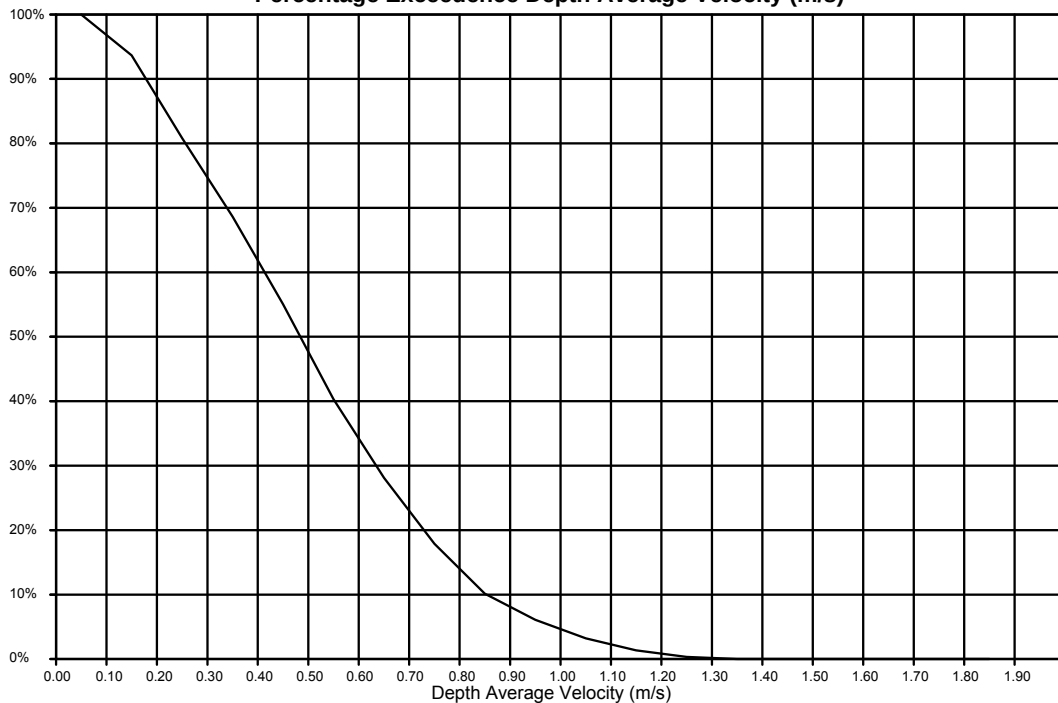
Percentage Occurrence Depth Average Velocity (m/s)



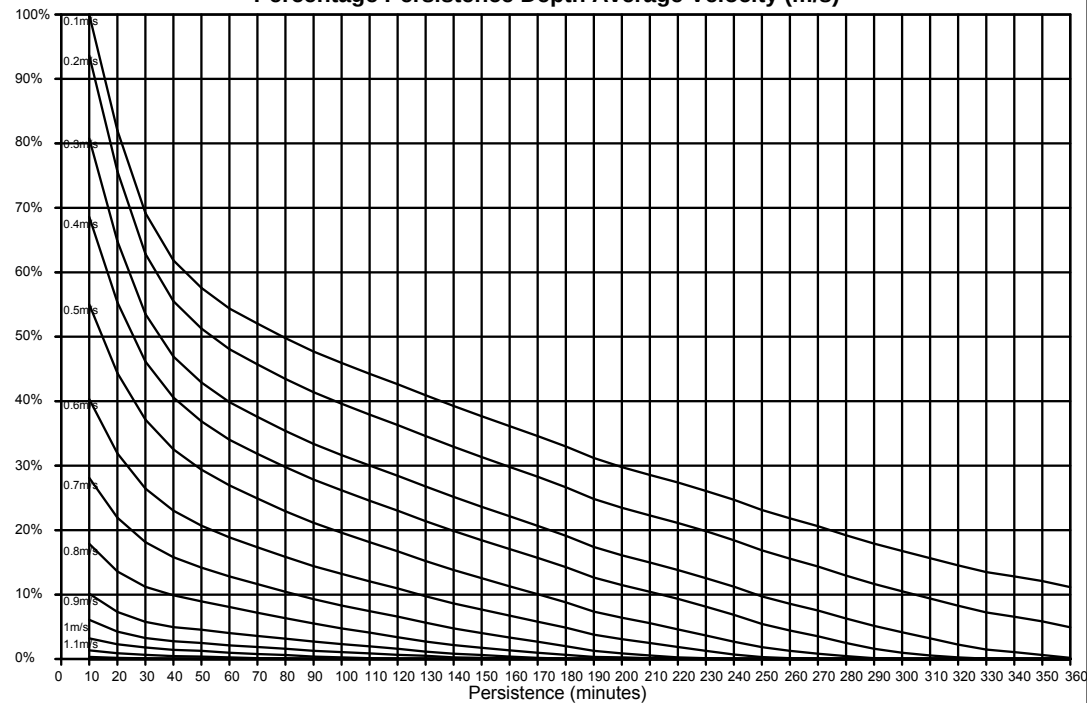
Percentage Occurrence Depth Average Direction (°N)



Percentage Exceedence Depth Average Velocity (m/s)



Percentage Persistence Depth Average Velocity (m/s)



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

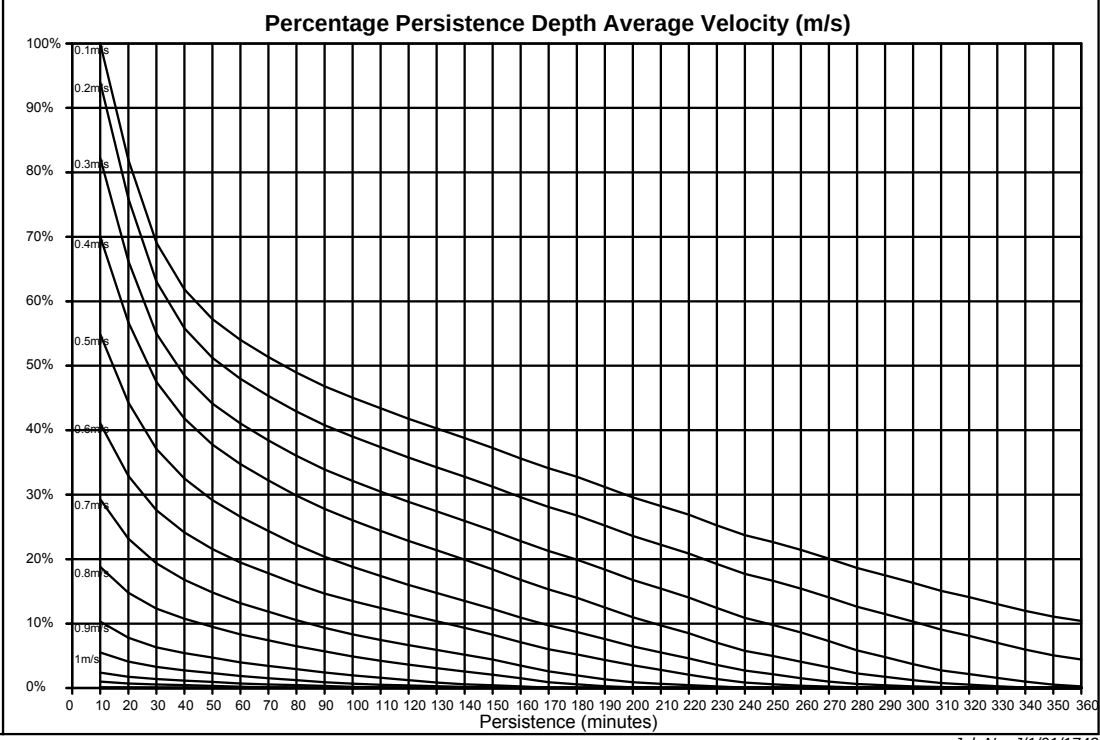
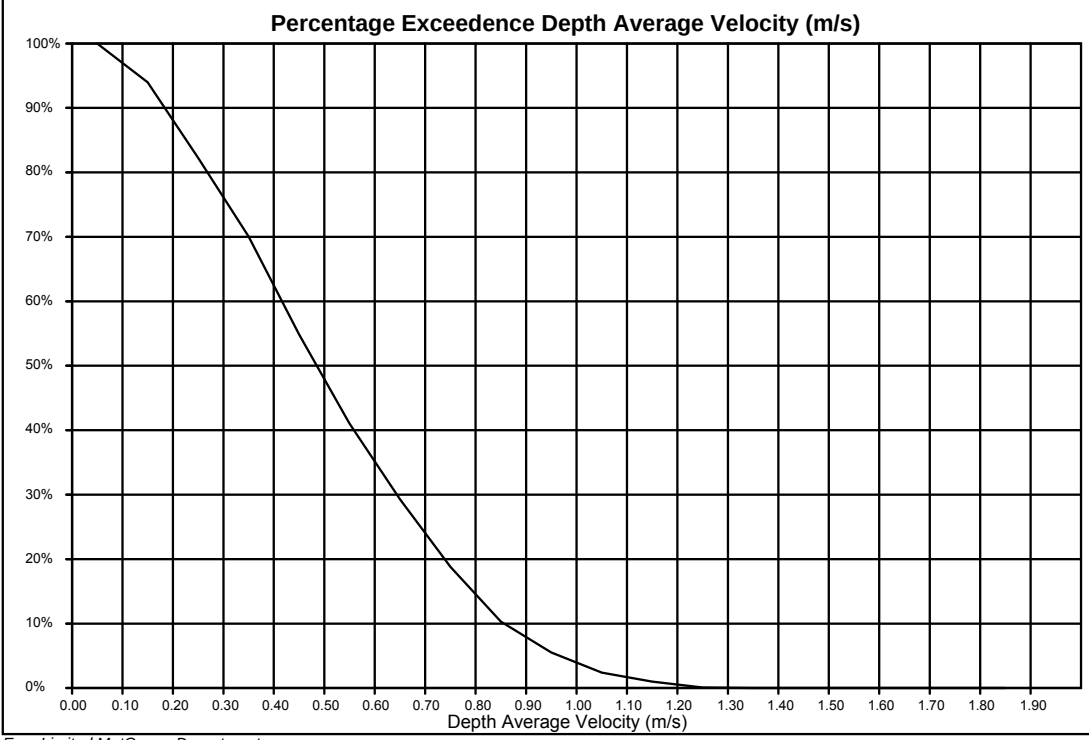
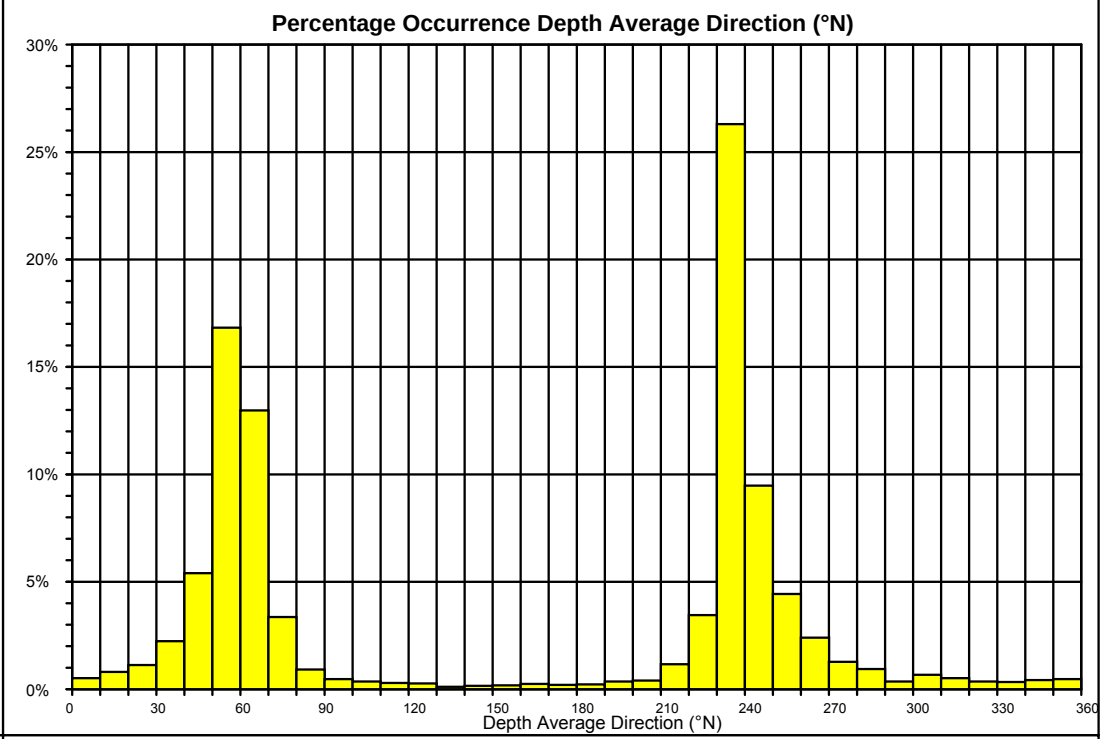
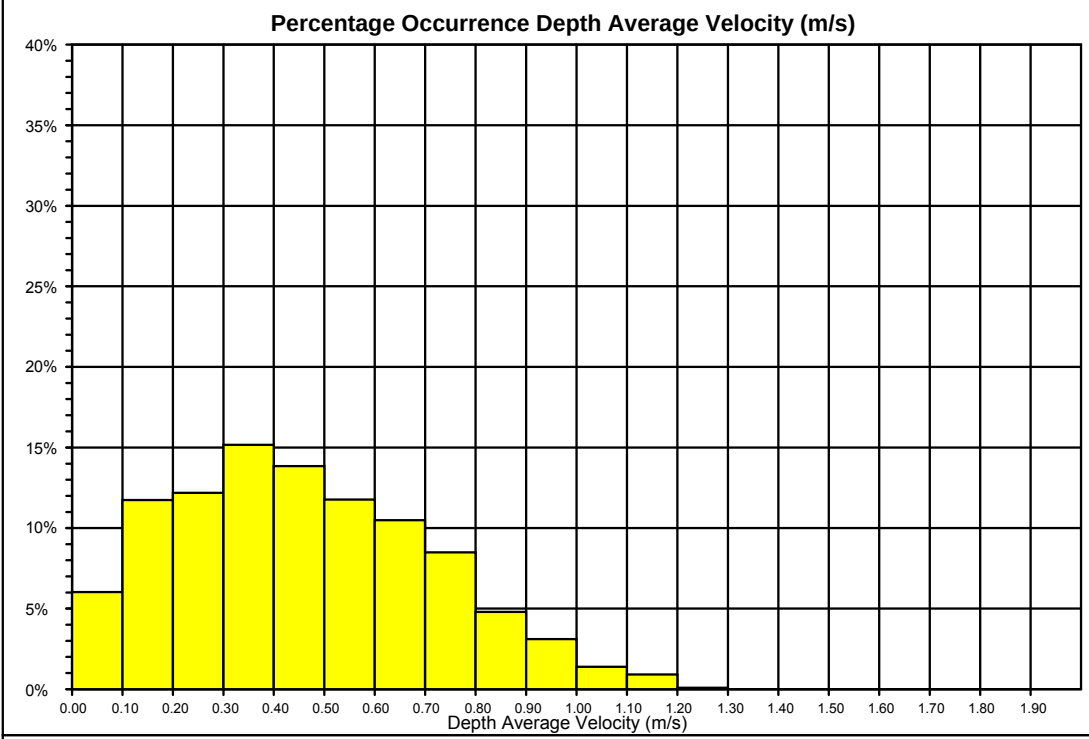
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Data for March

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10	4	18	1																		23	0.515
<20	7	20	9																		36	0.806
<30	5	31	13	1																	50	1.120
<40	2	27	43	24	4																100	2.240
<50	1	15	35	55	49	39	20	11	8	5	1	2									241	5.399
<60		4	12	48	87	76	101	98	110	117	57	37	4								751	16.823
<70	4	8	46	98	108	107	73	76	40	13	4	2									579	12.970
<80	6	53	56	24	6	3	1	1													150	3.360
<90	9	28	4																		41	0.918
<100	13	8																			21	0.470
<110	14	2																			16	0.358
<120	13																				13	0.291
<130	12																				12	0.269
<140	5																				5	0.112
<150	7																				7	0.157
<160	8																				8	0.179
<170	11																				11	0.246
<180	8	1																			9	0.202
<190	10																				10	0.224
<200	14	2																			16	0.358
<210	14	4																			18	0.403
<220	22	29	1																		52	1.165
<230	5	56	50	25	10	3	2	3													154	3.450
<240	4	33	103	218	227	186	195	152	52	4											1174	26.299
<250		2	46	103	75	82	73	38	4												423	9.476
<260		18	55	49	44	29	3														198	4.435
<270	3	32	34	30	8																107	2.397
<280	7	23	25	2																	57	1.277
<290	11	22	9																		42	0.941
<300	5	10	1																		16	0.358
<310	9	21																			30	0.672
<320	8	15																			23	0.515
<330	6	10																			16	0.358
<340	6	9																			15	0.336
<350	9	9	1																		19	0.426
<360	7	14																			21	0.470
Count	269	524	544	677	618	525	468	379	214	139	62	41	4	0	0	0	0	0	0	0	4464	
%	6.026	11.738	12.186	15.166	13.844	11.761	10.484	8.490	4.794	3.114	1.389	0.918	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for April

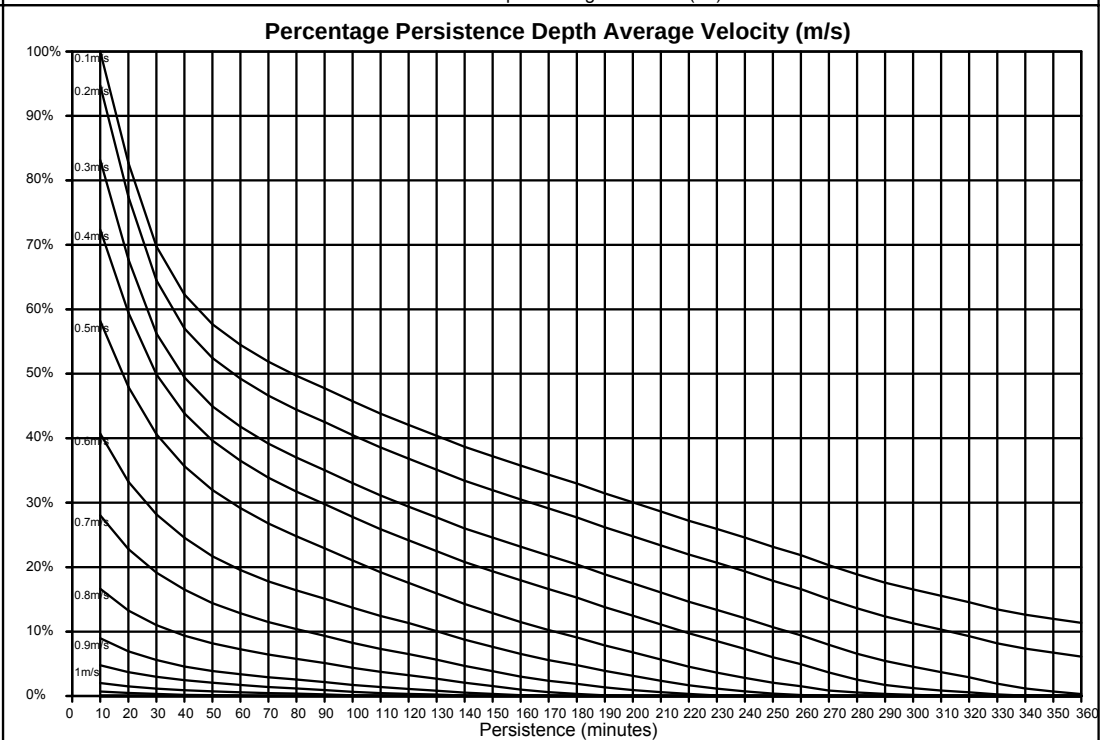
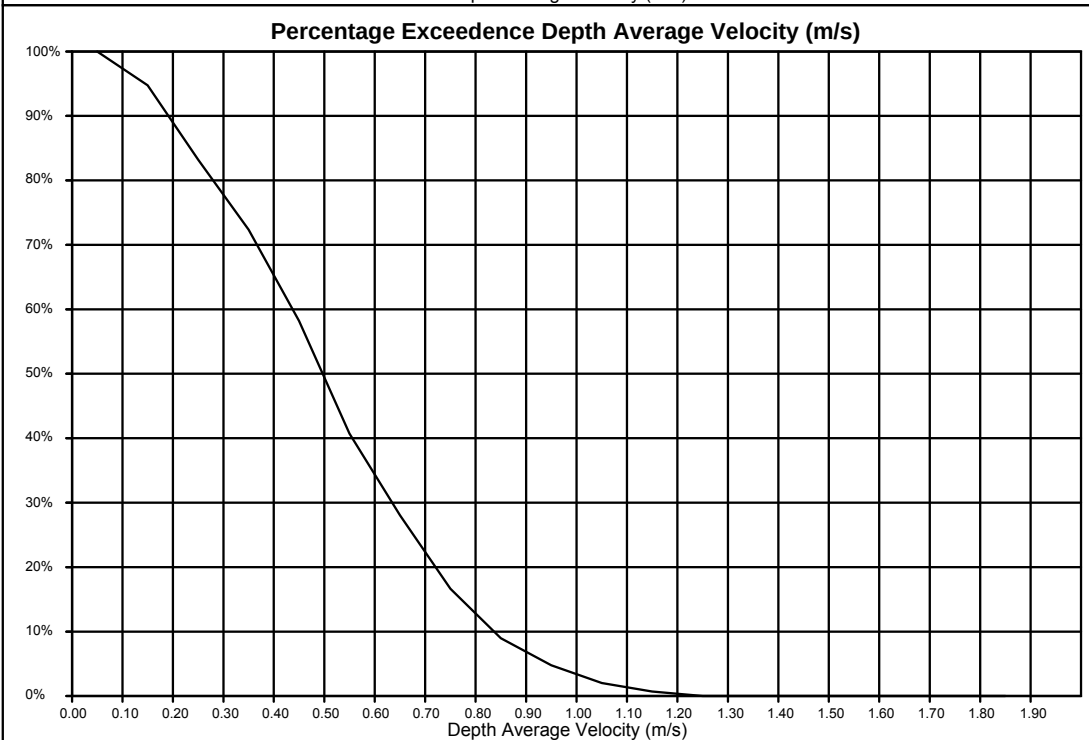
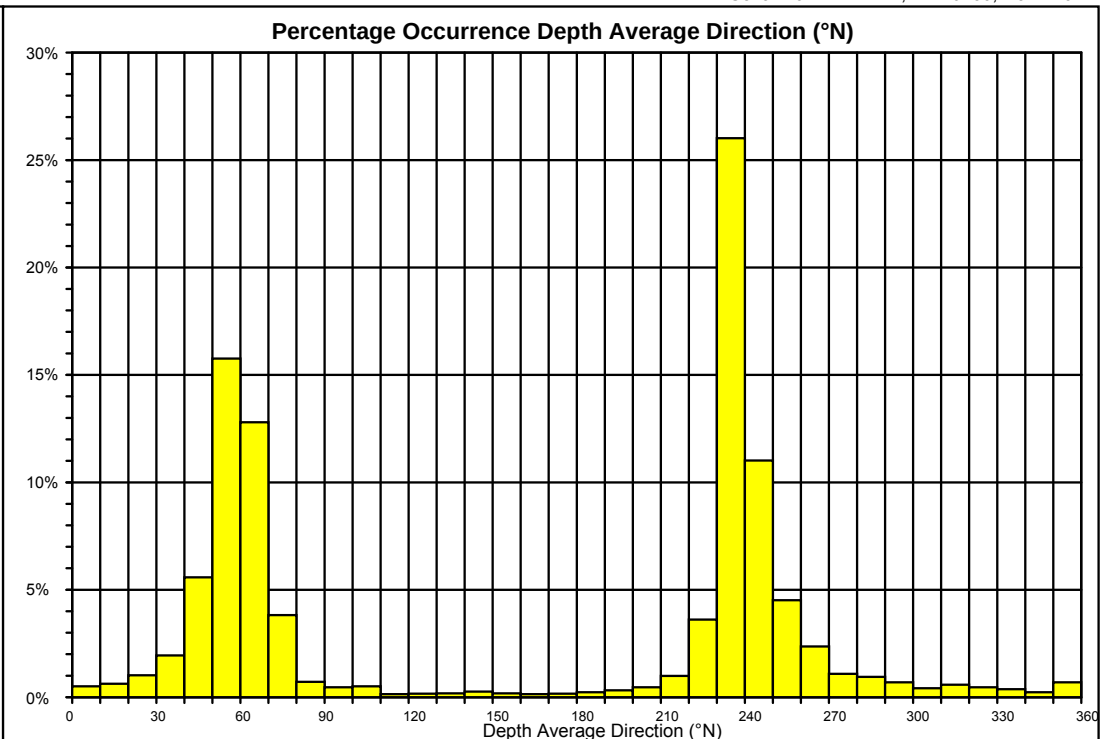
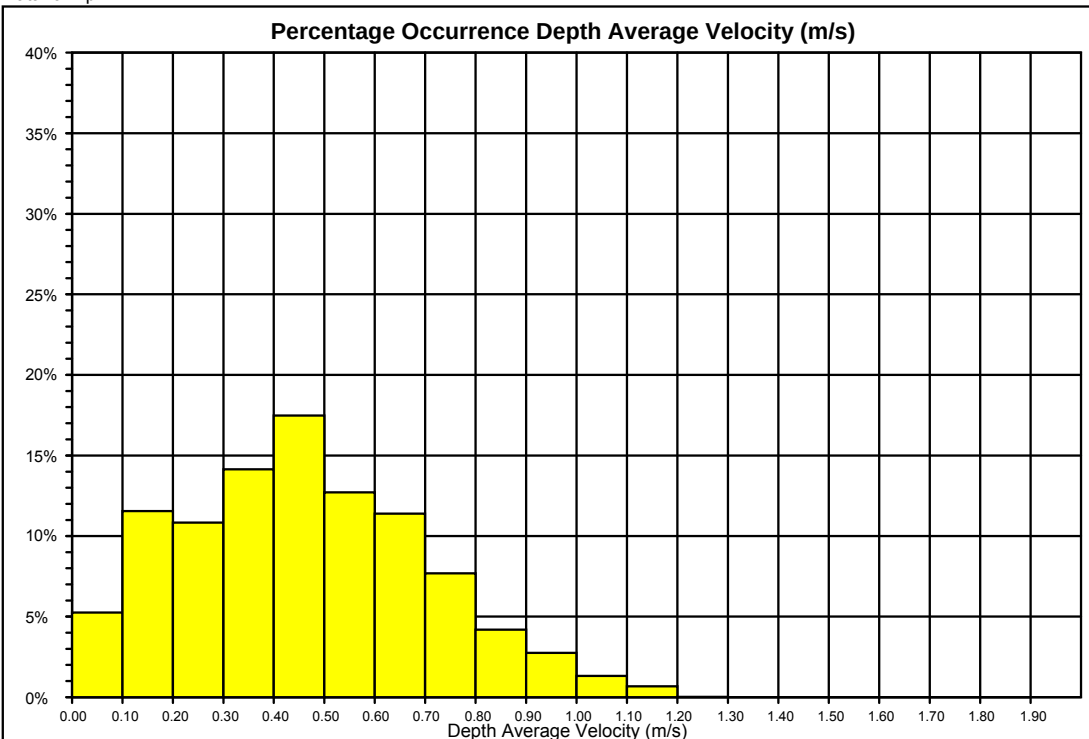
Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10	6	14	2																		22	0.509
<20	8	10	9																		27	0.625
<30	2	30	12																		44	1.019
<40	1	21	36	23	3																84	1.944
<50		11	42	54	55	35	22	11	5	3	3										241	5.579
<60		2	14	44	80	64	80	109	107	99	52	29	1								681	15.764
<70	1	11	39	89	107	103	82	67	35	17	2										553	12.801
<80	11	55	59	31	9																165	3.819
<90	9	21	1																		31	0.718
<100	16	4																			20	0.463
<110	18	4																			22	0.509
<120	6																				6	0.139
<130	7																				7	0.162
<140	8																				8	0.185
<150	11																				11	0.255
<160	8																				8	0.185
<170	6																				6	0.139
<180	7																				7	0.162
<190	9	1																			10	0.231
<200	11	3																			14	0.324
<210	16	4																			20	0.463
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<250	1	3	10	96	148	101	78	37	2												476	11.019
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<270		29	42	27	4																102	2.361
<280	1	21	21	4																	47	1.088
<290	5	26	10																		41	0.949
<300	6	22	2																		30	0.694
<310	1	17																			18	0.417
<320	11	14																			25	0.579
<330	3	17																			20	0.463
<340	7	9																			16	0.370
<350	2	8																			10	0.231
<360	6	23	1																		30	0.694
Count	227	499	468	611	755	549	492	332	181	119	57	29	1	0	0	0	0	0	0	0	4320	100
%	5.255	11.551	10.833	14.144	17.477	12.708	11.389	7.685	4.190	2.755	1.319	0.671	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for April

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for May

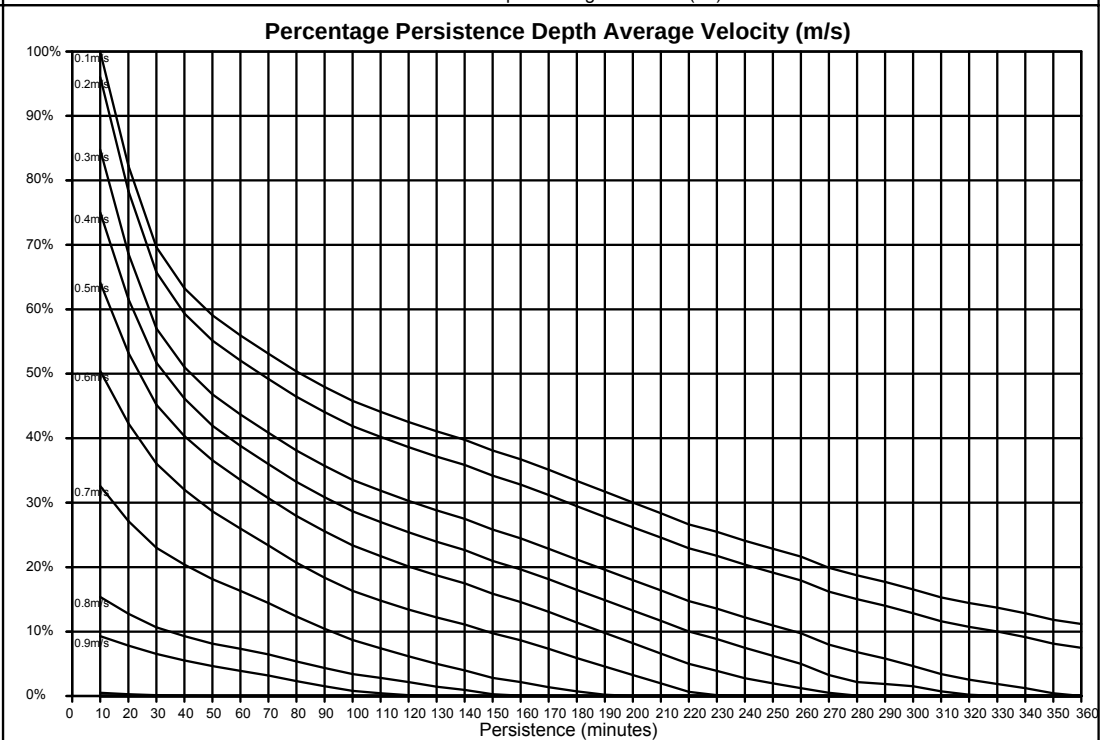
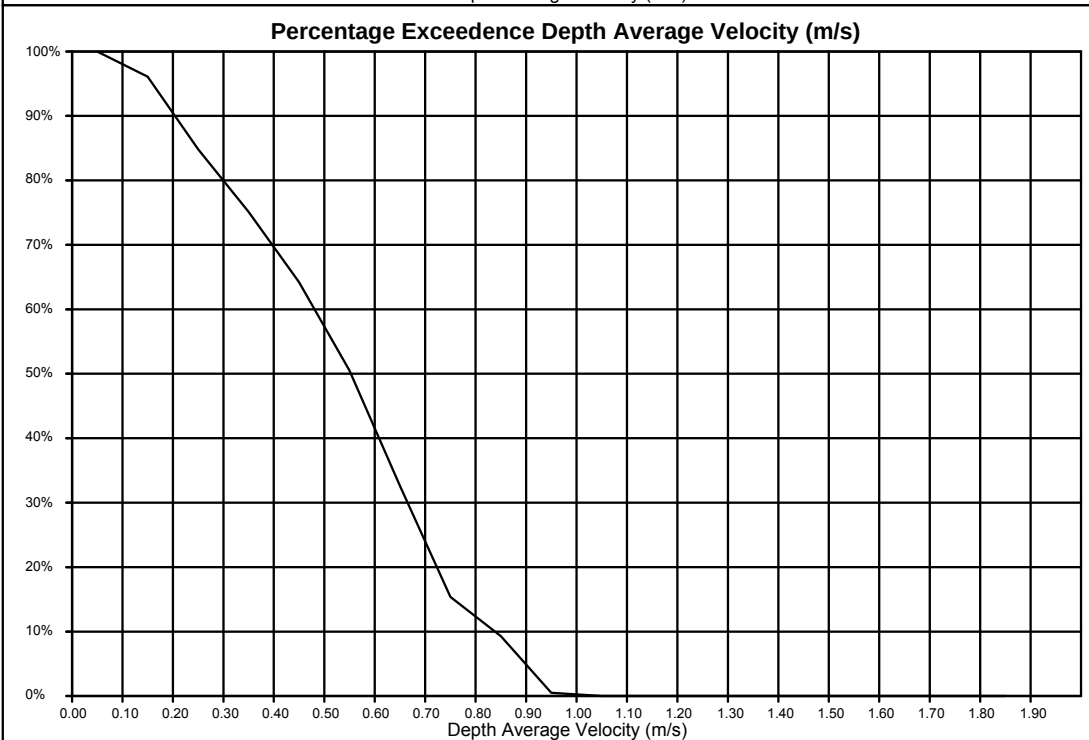
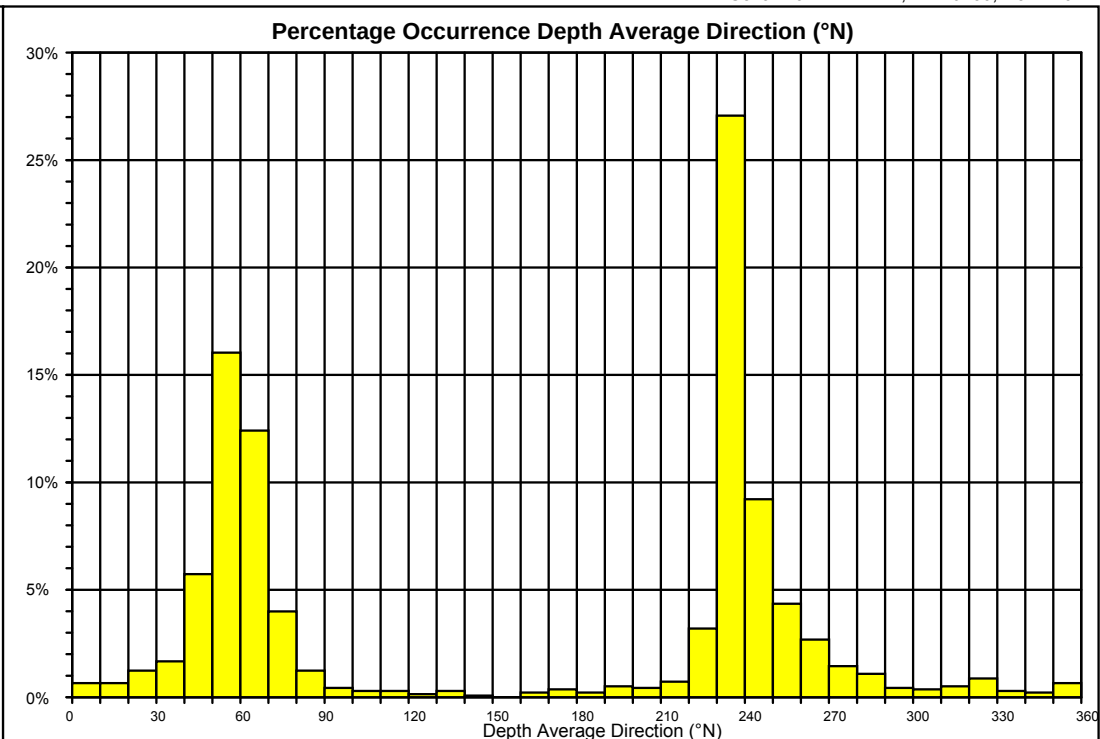
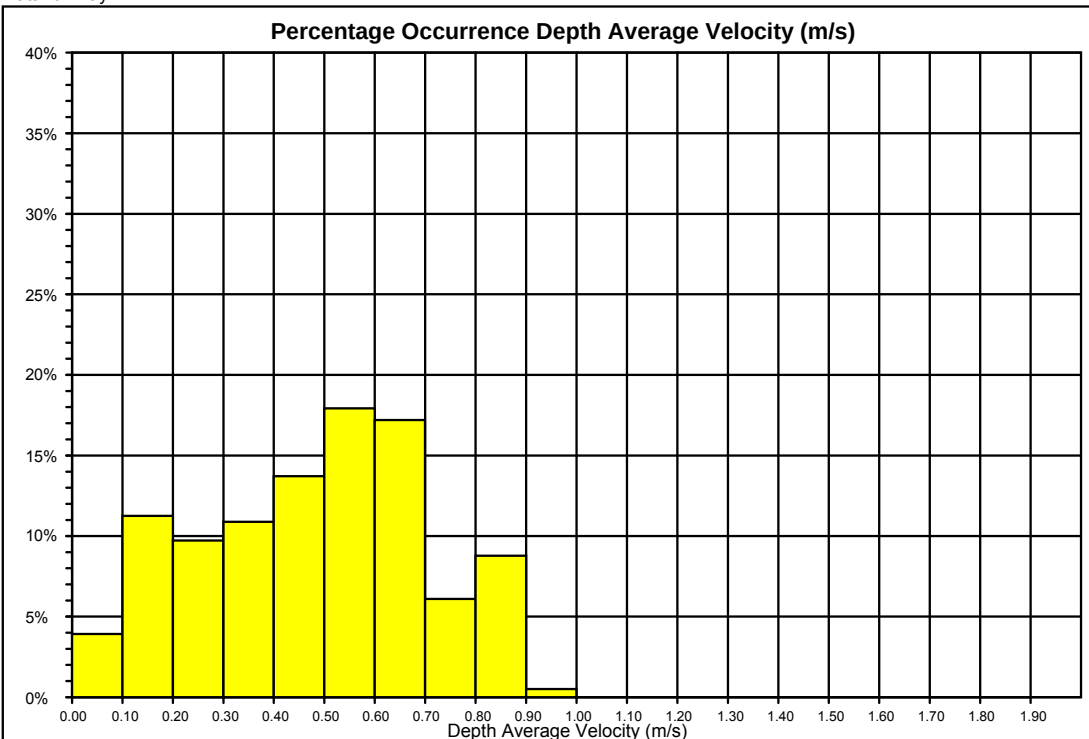
Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10		9																			9	0.653
<20		9																			9	0.653
<30		9	8																		17	1.234
<40			19	4																	23	1.669
<50			4	21	22	17	9	5	1												79	5.733
<60	1				5	19	29	50	110	7											221	16.038
<70		3	8	14	28	35	44	29	10												171	12.409
<80	2	11	19	14	7	2															55	3.991
<90	4	13																			17	1.234
<100	2	4																			6	0.435
<110	4																				4	0.290
<120	4																				4	0.290
<130	2																				2	0.145
<140	4																				4	0.290
<150	1																				1	0.073
<160																					0	0.000
<170	3																				3	0.218
<180	5																				5	0.363
<190	3																				3	0.218
<200	5	2																			7	0.508
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<270		1	20	16																	37	2.685
<280		4	16																		20	1.451
<290		13	2																		15	1.089
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<310		5																			5	0.363
<320		7																			7	0.508
<330	1	11																			12	0.871
<340		4																			4	0.290
<350	1	2																			3	0.218
<360		9																			9	0.653
Count	54	155	134	150	189	247	237	84	121	7	0	0	0	0	0	0	0	0	0	0	1378	100
%	3.919	11.248	9.724	10.885	13.716	17.925	17.199	6.096	8.781	0.508	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for May

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for November

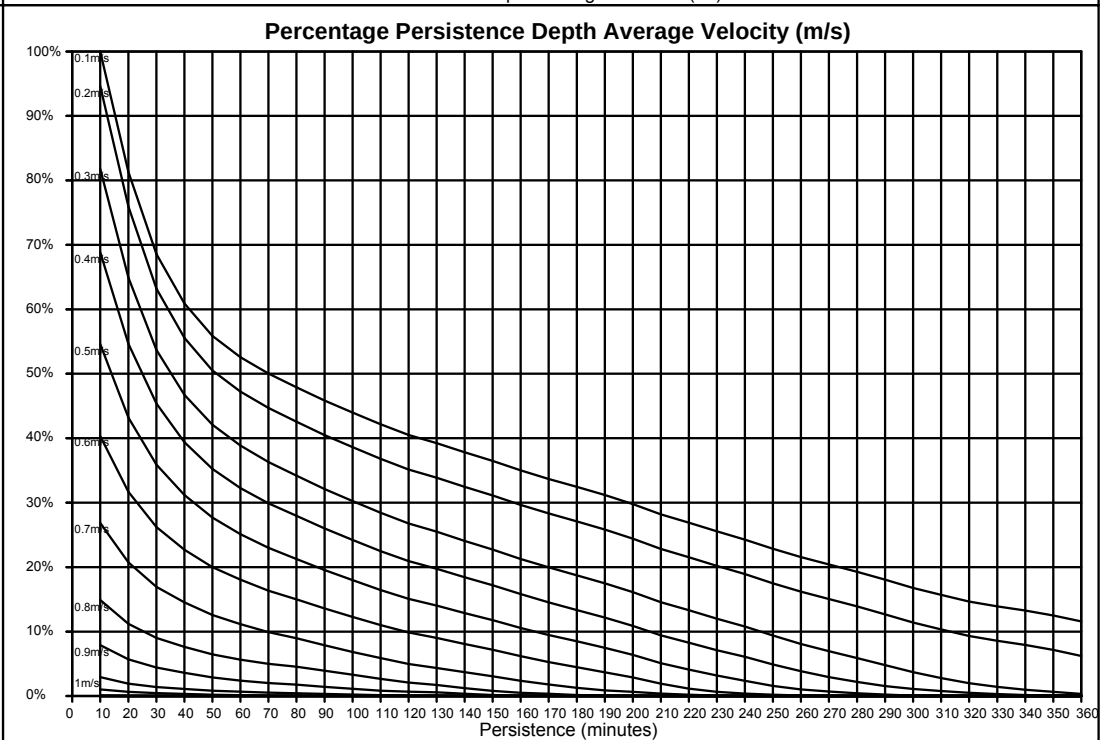
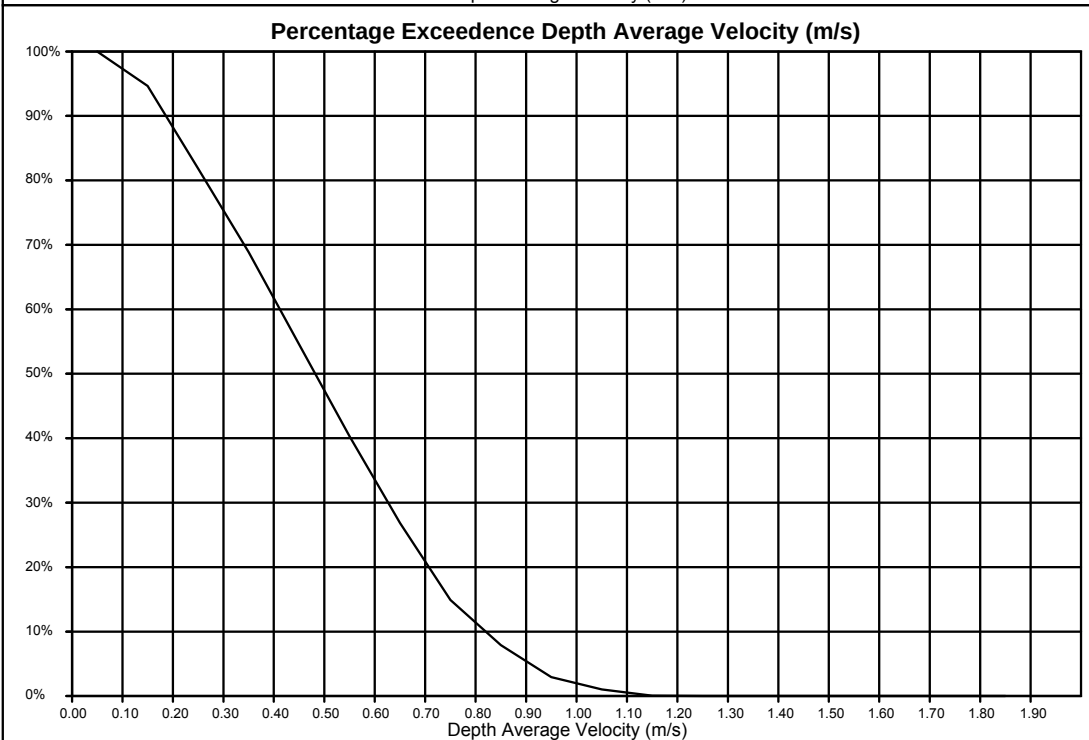
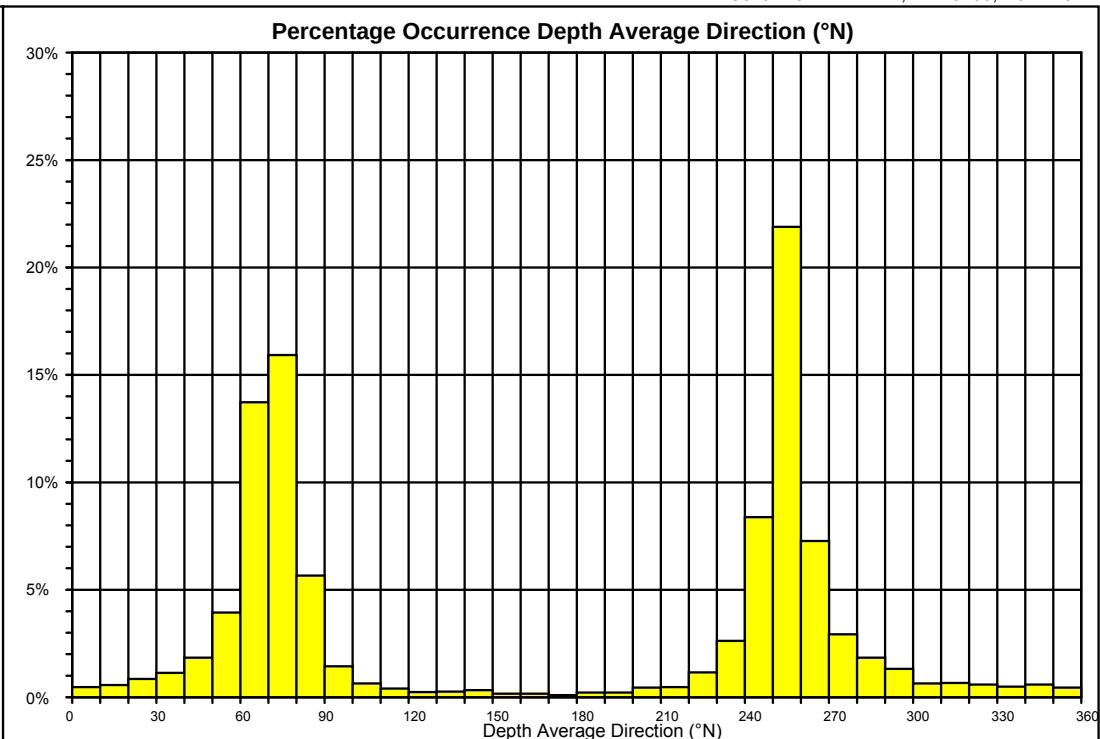
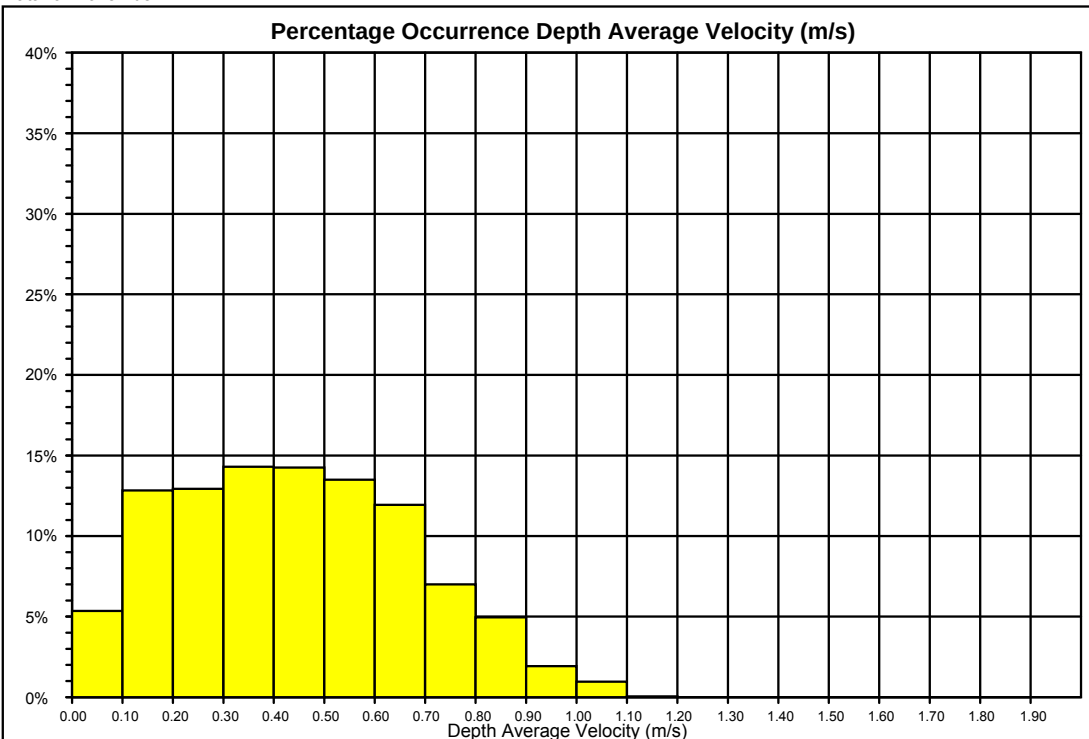
Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
<10	5	14	1																		20	0.472
<20	1	22	1																		24	0.566
<30		31	4	1																	36	0.849
<40	3	26	18	1																	48	1.132
<50		18	41	19																	78	1.840
<60		7	31	57	40	20	8	3		1											167	3.940
<70		1	11	29	62	67	107	101	112	59	31	2									582	13.730
<80	6	12	13	55	85	132	134	116	90	22	10										675	15.924
<90	6	28	59	61	45	27	10	3	1												240	5.662
<100	10	37	13	1																	61	1.439
<110	14	12		1																	27	0.637
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<160	7																				7	0.165
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<200	8	1																			9	0.212
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<290	1	22	47	8																	78	1.840
<300	2	38	16																		56	1.321
<310	3	23	1																		27	0.637
<320	4	23	1																		28	0.661
<330	3	22																			25	0.590
<340	8	13																			21	0.495
<350	8	17																			25	0.590
<360	7	12																			19	0.448
Count	227	544	548	606	604	572	506	297	210	82	41	2	0	0	0	0	0	0	0	0	4239	100
%	5.355	12.833	12.928	14.296	14.249	13.494	11.937	7.006	4.954	1.934	0.967	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for November

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for December

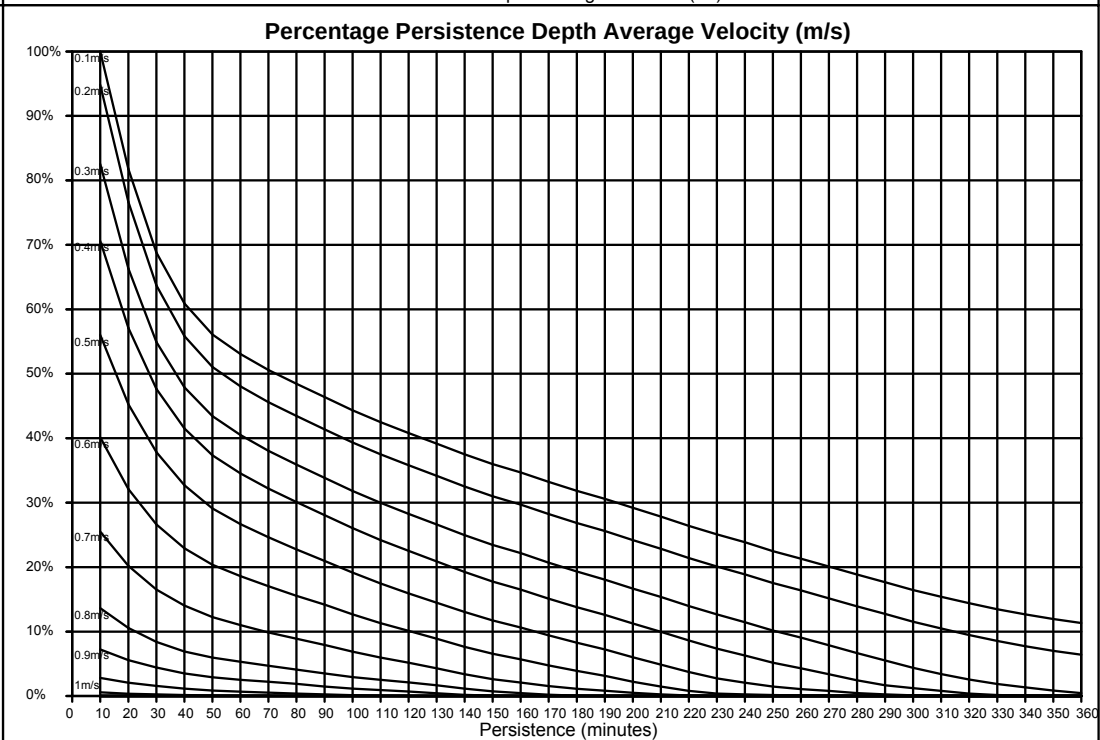
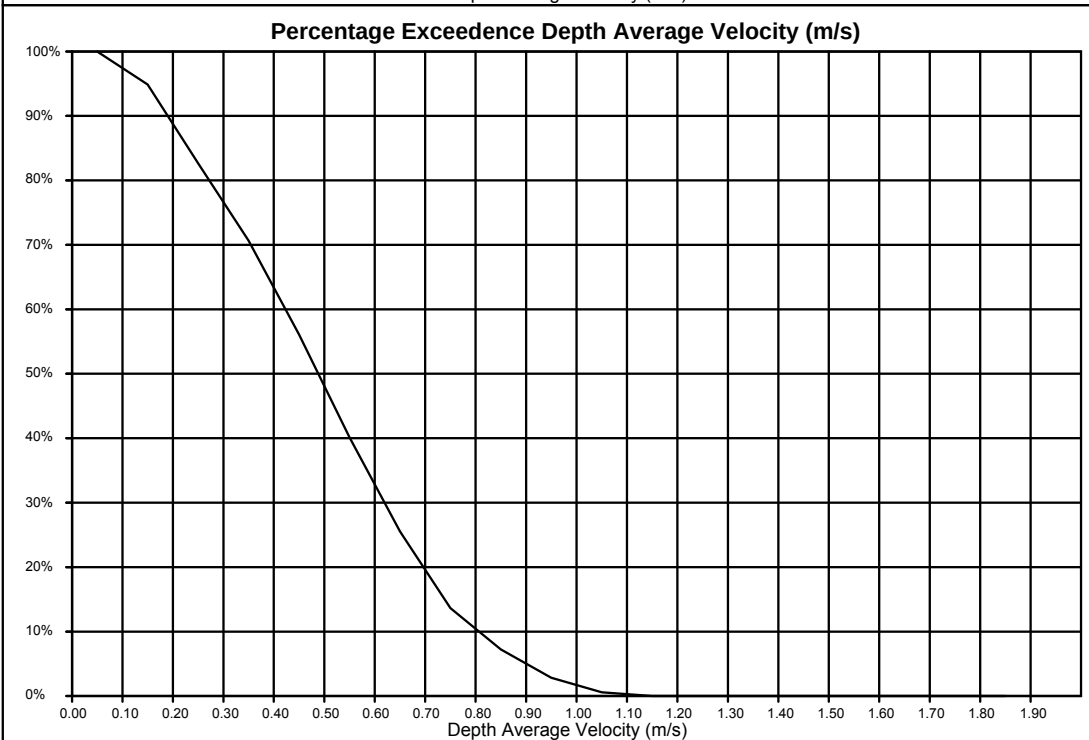
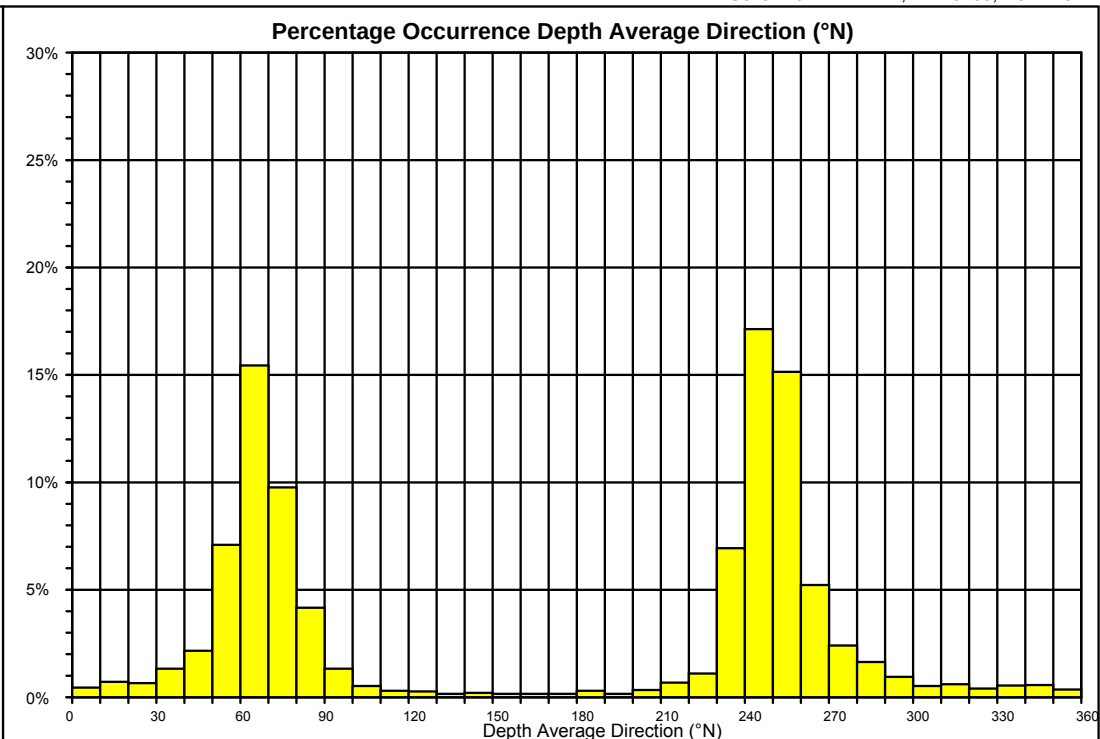
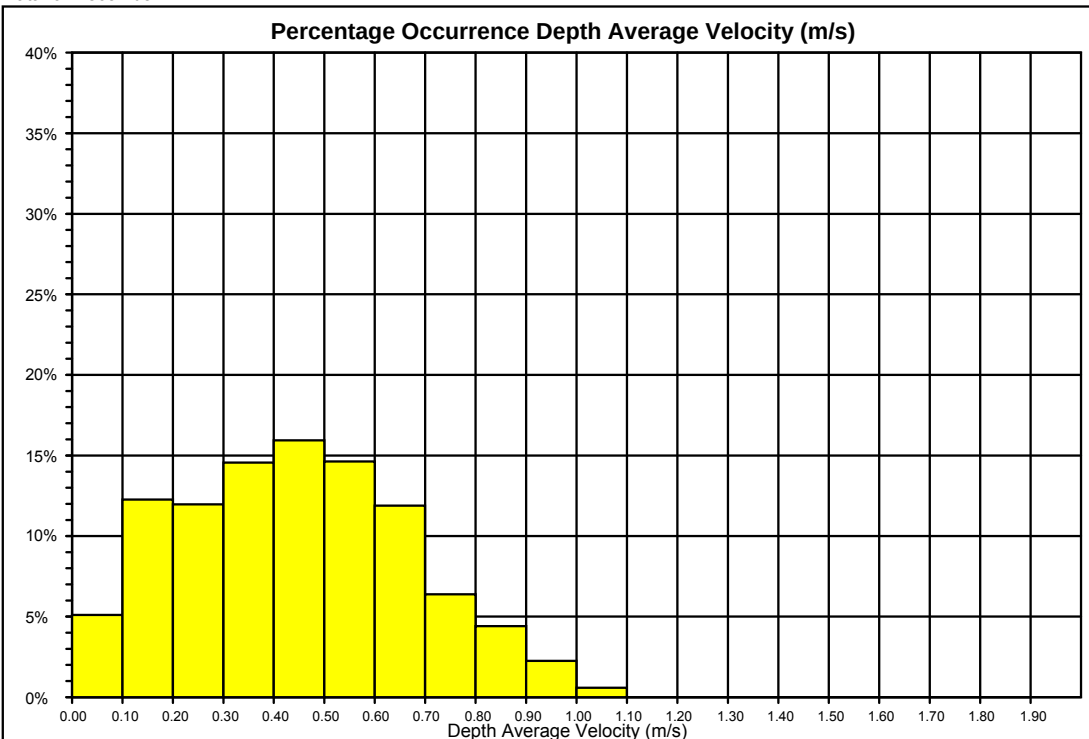
Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492

Frequency Distribution of Depth Average Velocity (m/s) against Depth Average Direction (°N)																						
	<0.1	<0.2	<0.3	<0.4	<0.5	<0.6	<0.7	<0.8	<0.9	<1	<1.1	<1.2	<1.3	<1.4	<1.5	<1.6	<1.7	<1.8	<1.9	<2	Count	%
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<60	4	13	42	59	55	41	41	24	16	15	5										315	7.090
<70	5	9	19	44	57	91	121	120	126	73	21										686	15.440
<80	6	20	37	55	55	79	65	59	46	12											434	9.768
<90	3	25	44	37	31	27	16	2													185	4.164
<100	15	26	11	5	2																59	1.328
<110	13	6	4																		23	0.518
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<130	8	4																			12	0.270
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<160	6	1																			7	0.158
<170	6	1																			7	0.158
<180	6	1																			7	0.158
<190	11	2																			13	0.293
<200	4	3																			7	0.158
<210	9	6																			15	0.338
<220	16	14																			30	0.675
<230	11	27	6	3	2																49	1.103
<240	11	33	54	63	67	41	30	9													308	6.932
<250	5	33	69	137	175	159	112	63	8												761	17.128
<260	4	20	50	122	179	157	134	7													673	15.147
<270	4	18	42	56	52	51	9														232	5.222
<280	4	13	39	34	16	1															107	2.408
<290	6	26	30	11																	73	1.643
<300	5	24	13																		42	0.945
<310	3	18	2																		23	0.518
<320	3	22	2																		27	0.608
<330	4	14																			18	0.405
<340	5	19																			24	0.540
<350	14	11																			25	0.563
<360	3	13																			16	0.360
																					4443	100
Count	227	545	532	647	708	650	528	284	196	100	26	0	0	0	0	0	0	0	0	0	4443	
%	5.109	12.266	11.974	14.562	15.935	14.630	11.884	6.392	4.411	2.251	0.585	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3
Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m
Data for December

Current Meter / AWAC
Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Appendix D

Data Presentation

Meteorological Parameters

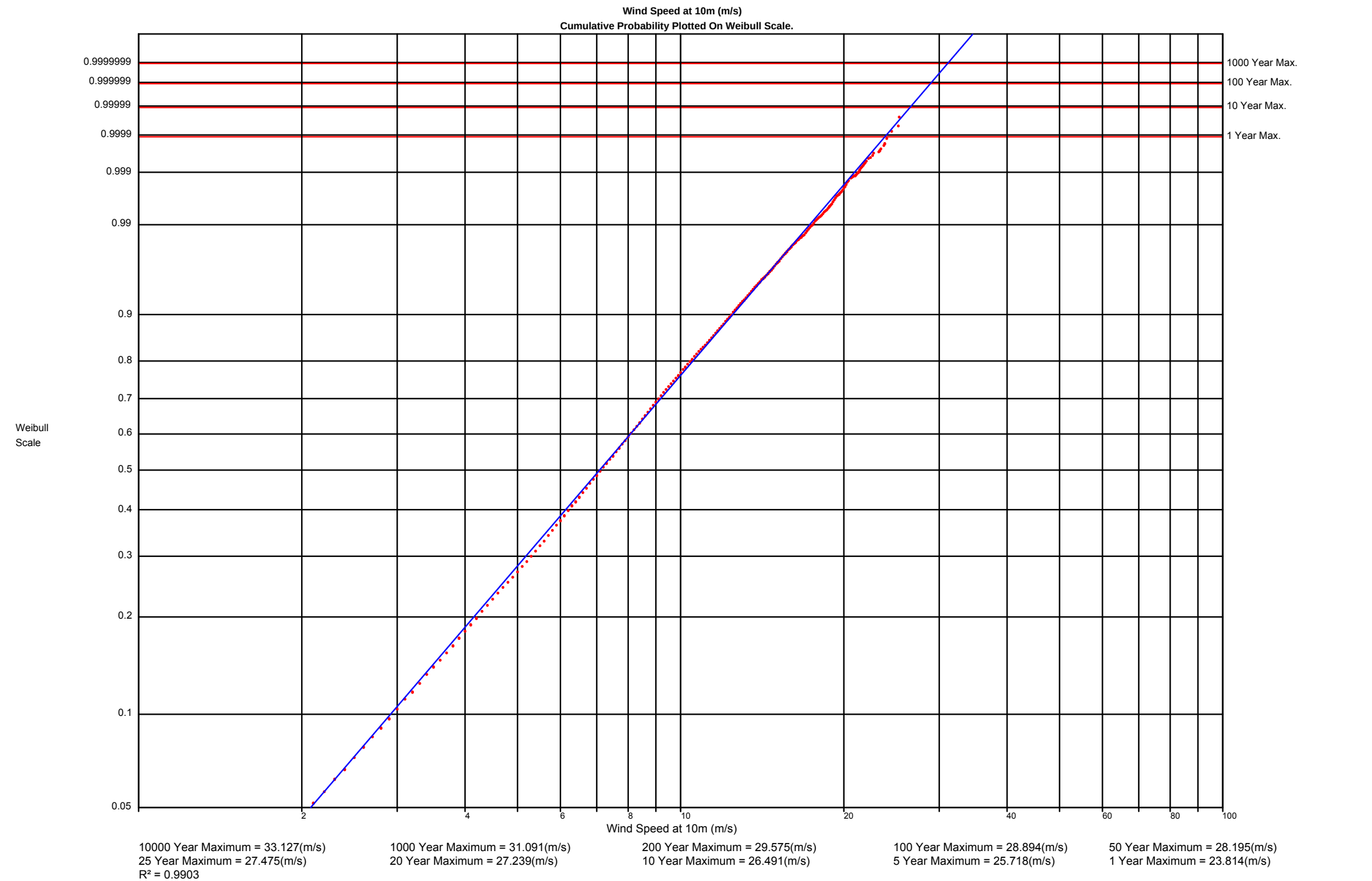
Figure/Table	Location/Data Source	Data Type	Parameters
Figure D001	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 10m Height (m/s)
Figure D002	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 50m Height (m/s)
Figure D003	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 75m Height (m/s)
Figure D004	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 100m Height (m/s)
Figure D005	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 125m Height (m/s)
Figure D006	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 150m Height (m/s)
Figure D007	Met Office Model Output Location Rampion 1	Statistical Distributions	Weibull Analysis of Wind Speed at 175m Height (m/s)
Figure D008	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 10m Height (m/s)
Figure D009	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 50m Height (m/s)
Figure D010	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 75m Height (m/s)
Figure D011	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 100m Height (m/s)
Figure D012	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 125m Height (m/s)
Figure D013	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 150m Height (m/s)
Figure D014	Met Office Model Output Location Rampion 2	Statistical Distributions	Weibull Analysis of Wind Speed at 175m Height (m/s)
Table D001	Met Office Model Output Location Rampion 2	Frequency Table	Frequency Table of Wind Speed against Wind Direction at 50m – All Months
Tables D002-D013	Met Office Model Output Location Rampion 2	Frequency Tables	Frequency Table of Wind Speed against Wind Direction at 50m – Per Month
Figures D015 – D026	Met Office Model Output Location Rampion 2	Statistical Summary Plots	Percentage Occurrence of Wind Speed and Wind Direction. Percentage Persistence and Exceedence of Wind Speed – Per Month

Figure D027	Met Office Model Output Location Rampion 1	Hodogram (Rose Plot)	Percentage Occurrence of Wind Speed and Direction
Figure D028	Met Office Model Output Location Rampion 2	Hodogram (Rose Plot)	Percentage Occurrence of Wind Speed and Direction
Figure D029	Worthing	Hodogram (Rose Plot)	Percentage Occurrence of Wind Speed and Direction
Figure D030	Rampion Location 3	Hodogram (Rose Plot)	Percentage Occurrence of Wind Speed and Direction
Table D014	Worthing	Frequency Table	Frequency Table of Wind Speed against Wind Direction (for all months in which observations were made)
Table D015	Rampion Location 3	Frequency Table	Frequency Table of Wind Speed against Wind Direction (for all months in which observations were made)
Figure D031	Met Office Model Output Location Rampion 2	Statistical Summary Plots	Percentage Occurrence of Wind Speed and Wind Direction. Percentage Persistence and Exceedence of Wind Speed for All Months

Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 10m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

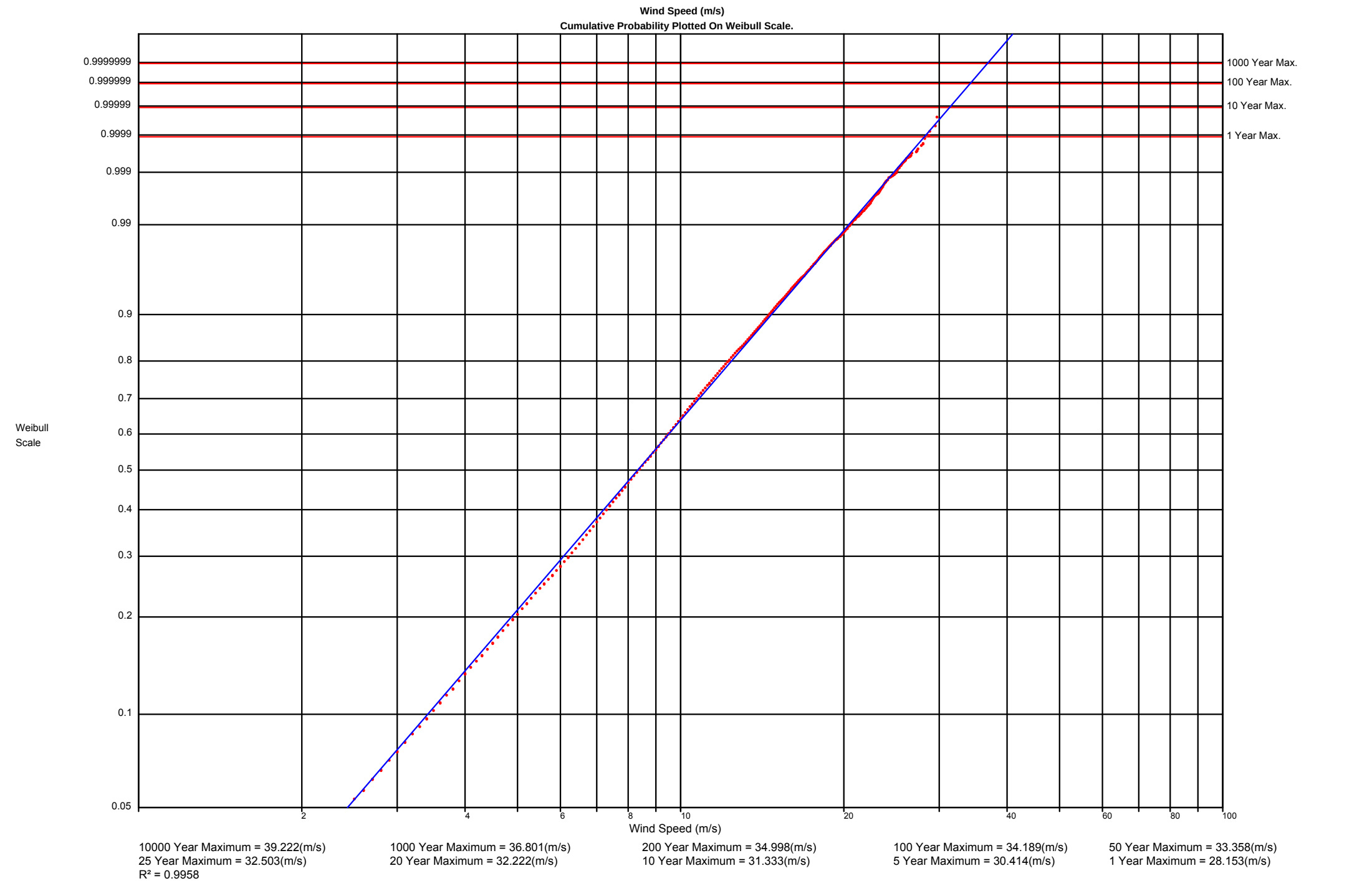
Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

Meteorological Station / MetOfficeModel
Serial No.: Modeled



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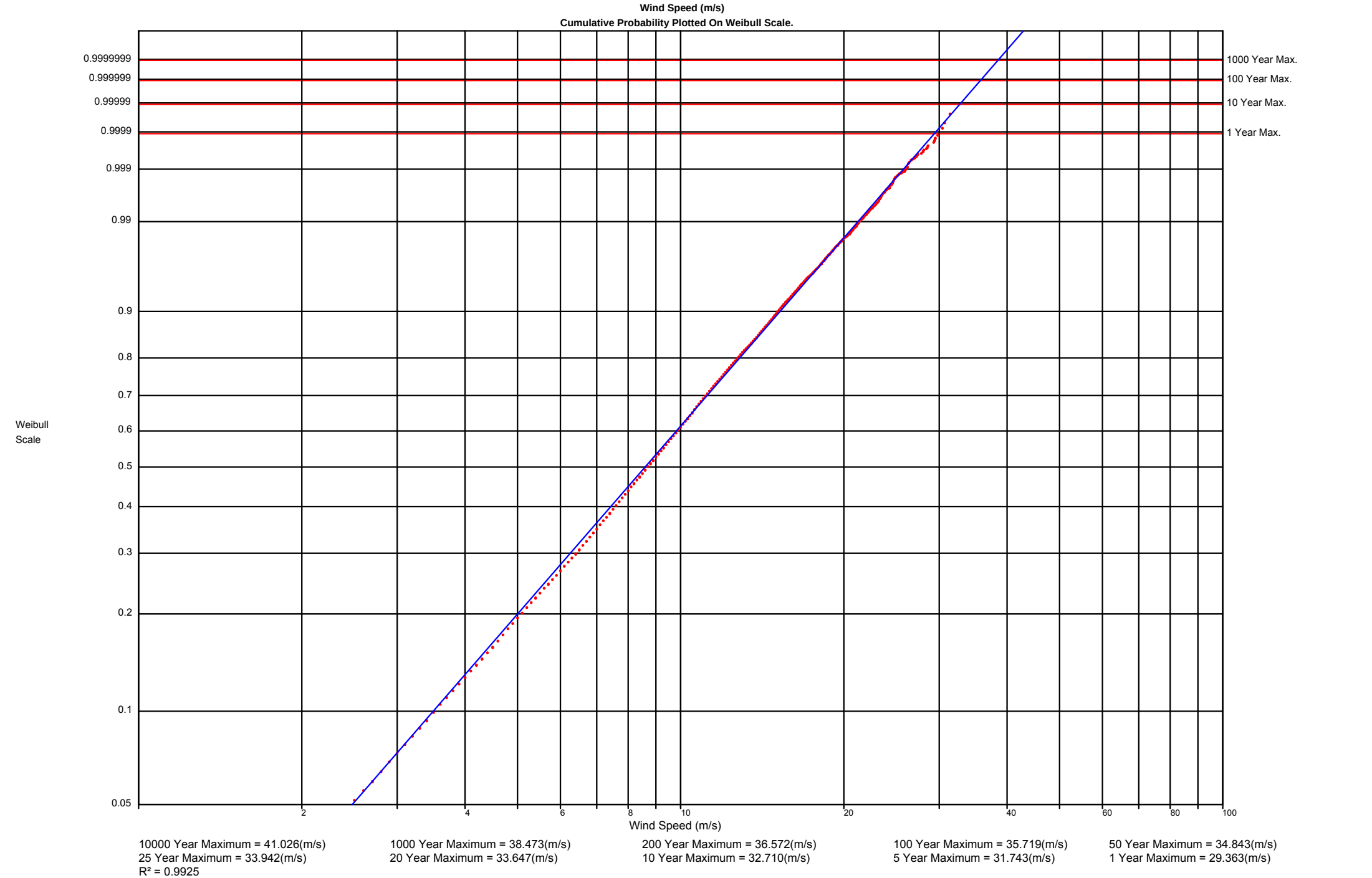
Meteorological Station / MetOfficeModel
Serial No.: Modeled



Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 75m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

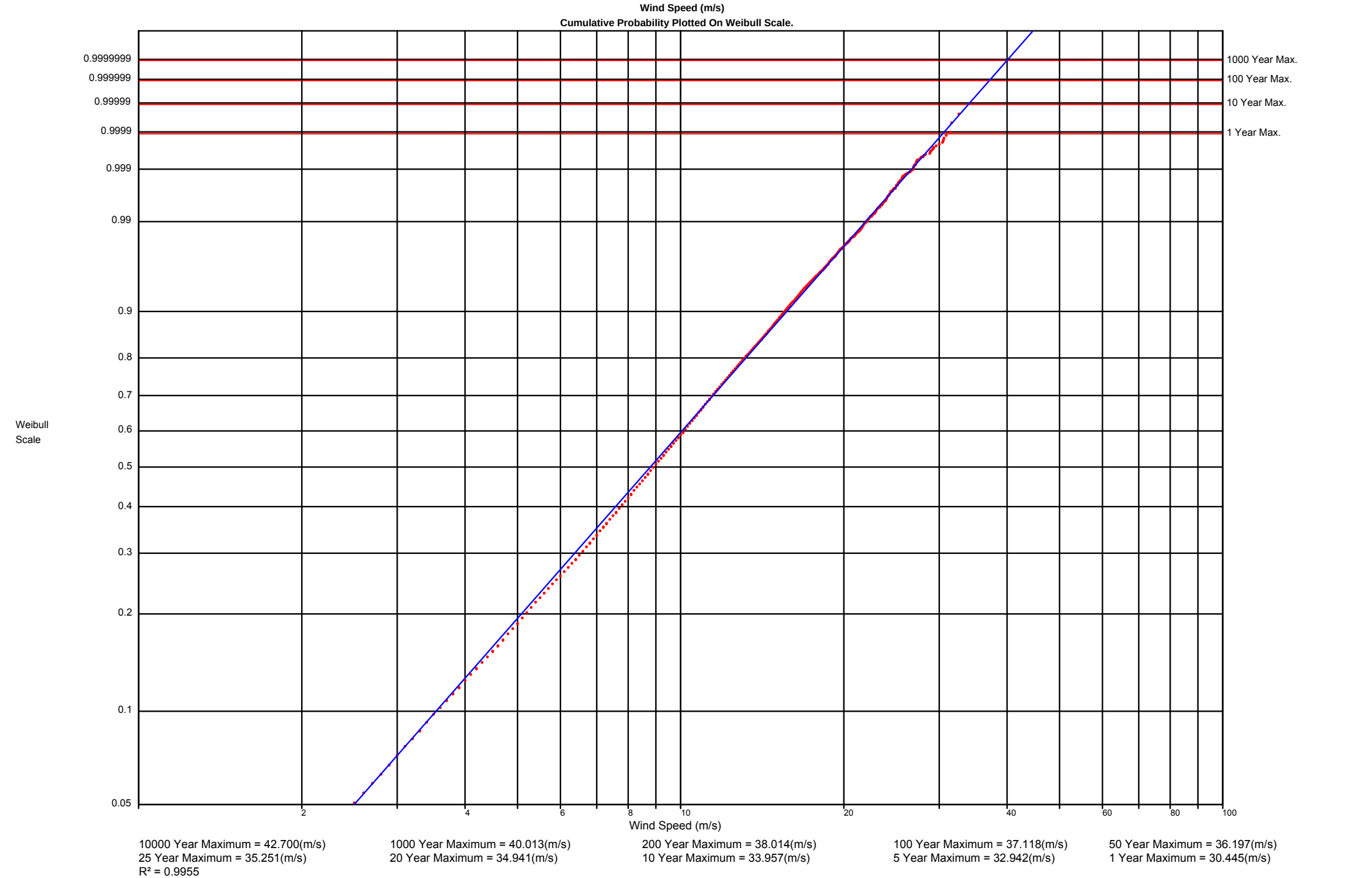
Meteorological Station / MetOfficeModel
Serial No.: Modeled



Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 100m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

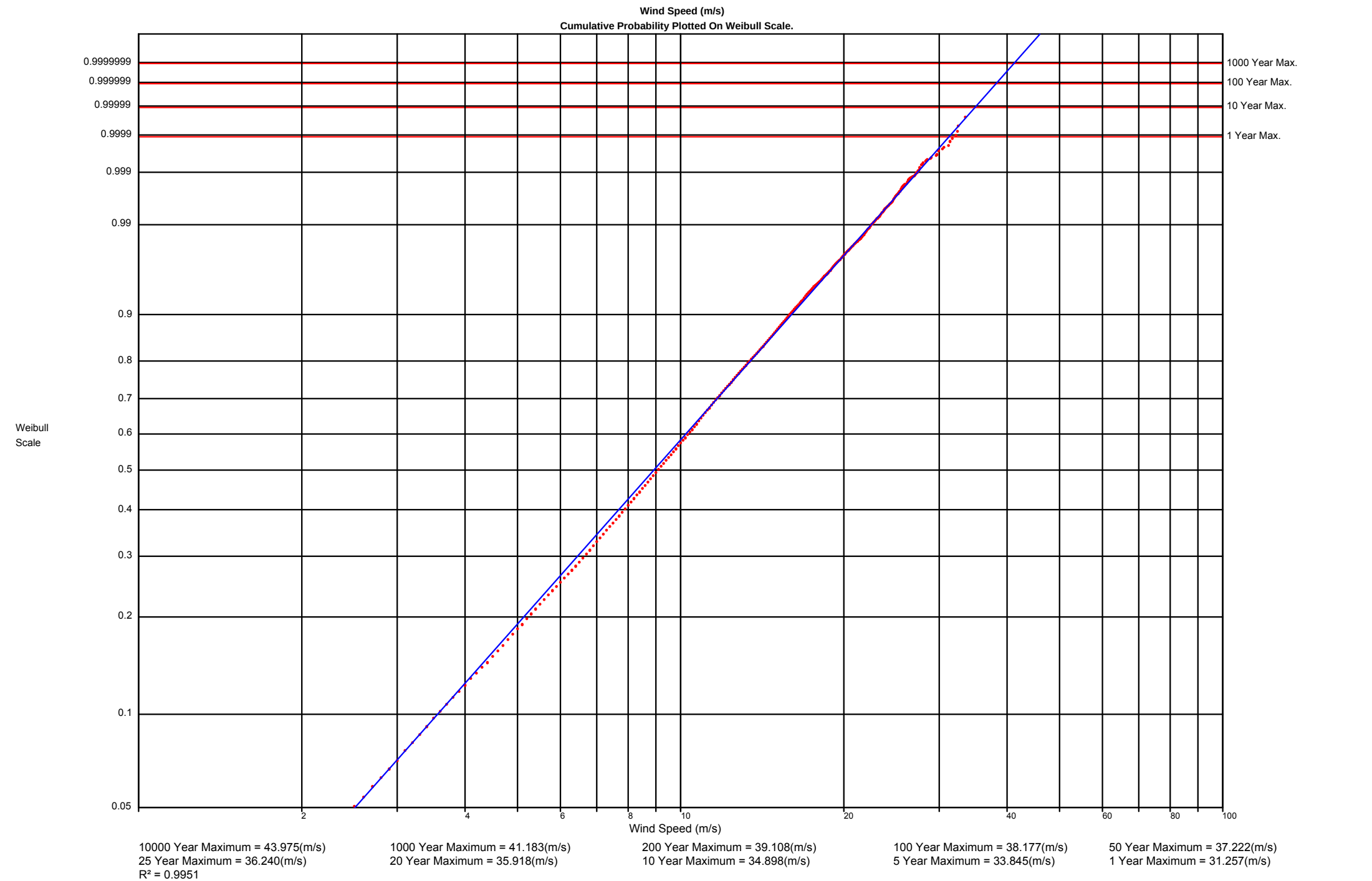
Meteorological Station / MetOfficeModel
Serial No.: Modeled



Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 125m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

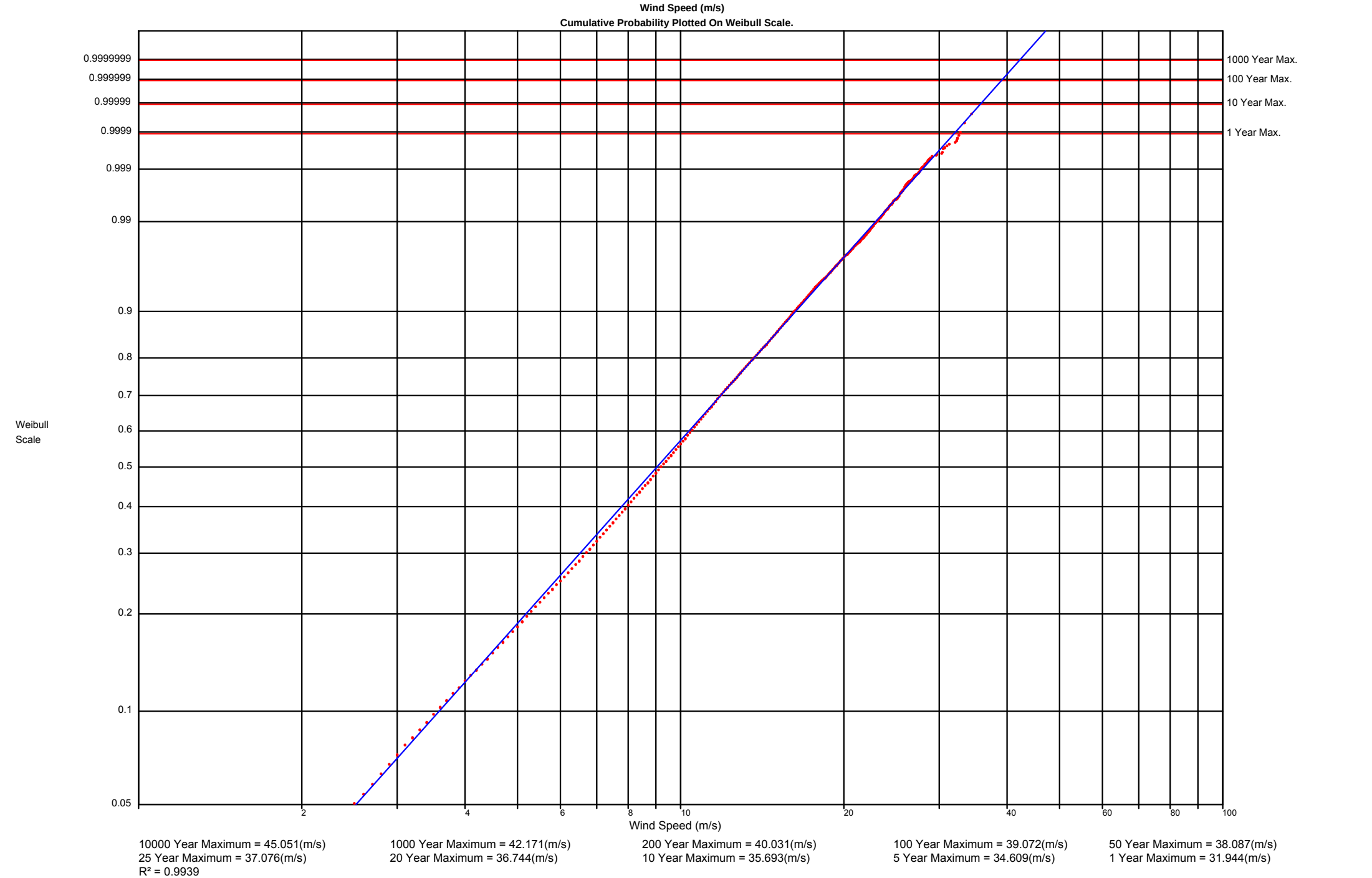
Meteorological Station / MetOfficeModel
Serial No.: Modeled



Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 150m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

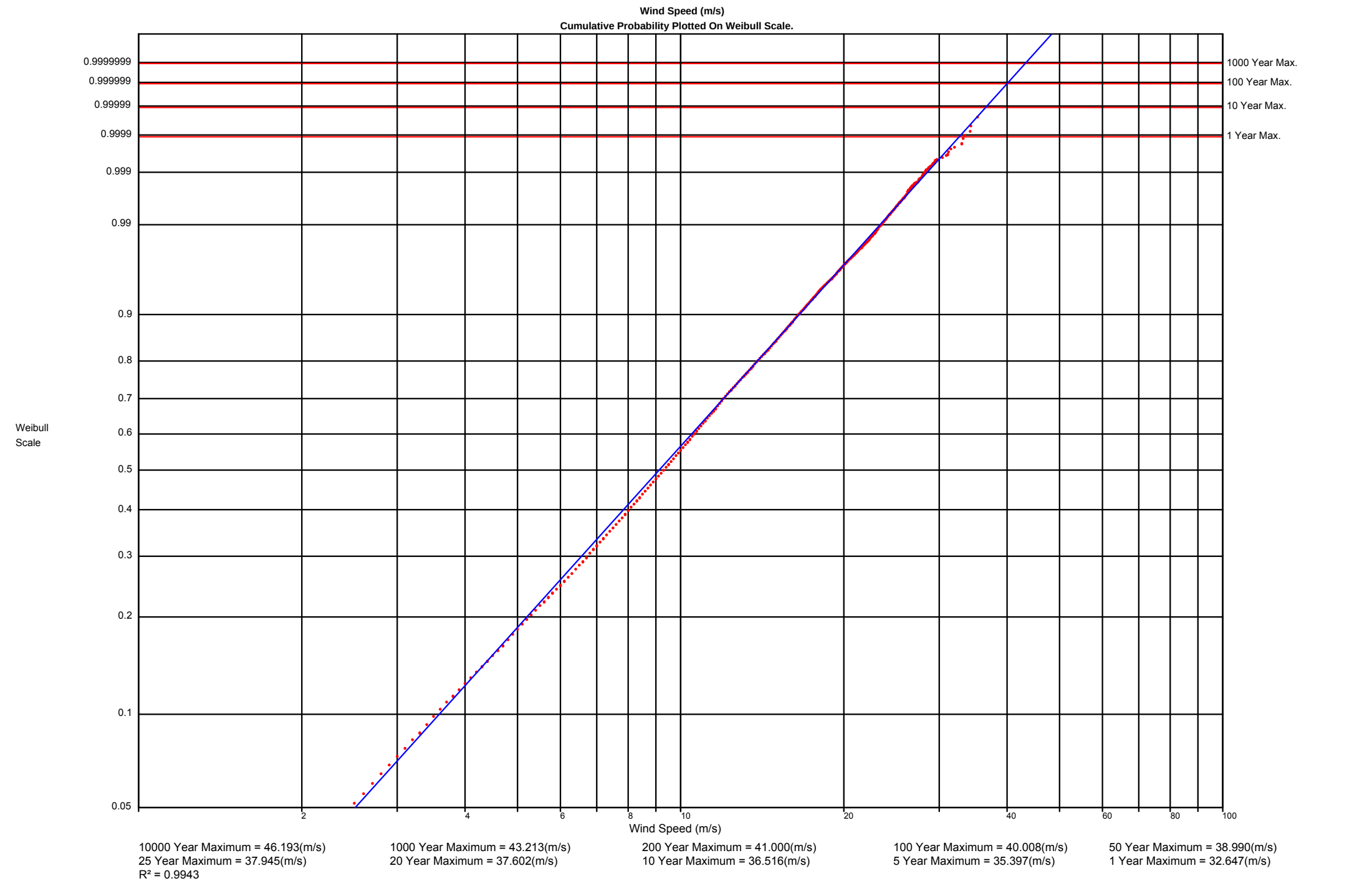
Meteorological Station / MetOfficeModel
Serial No.: Modeled



Statistical Distributions
Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

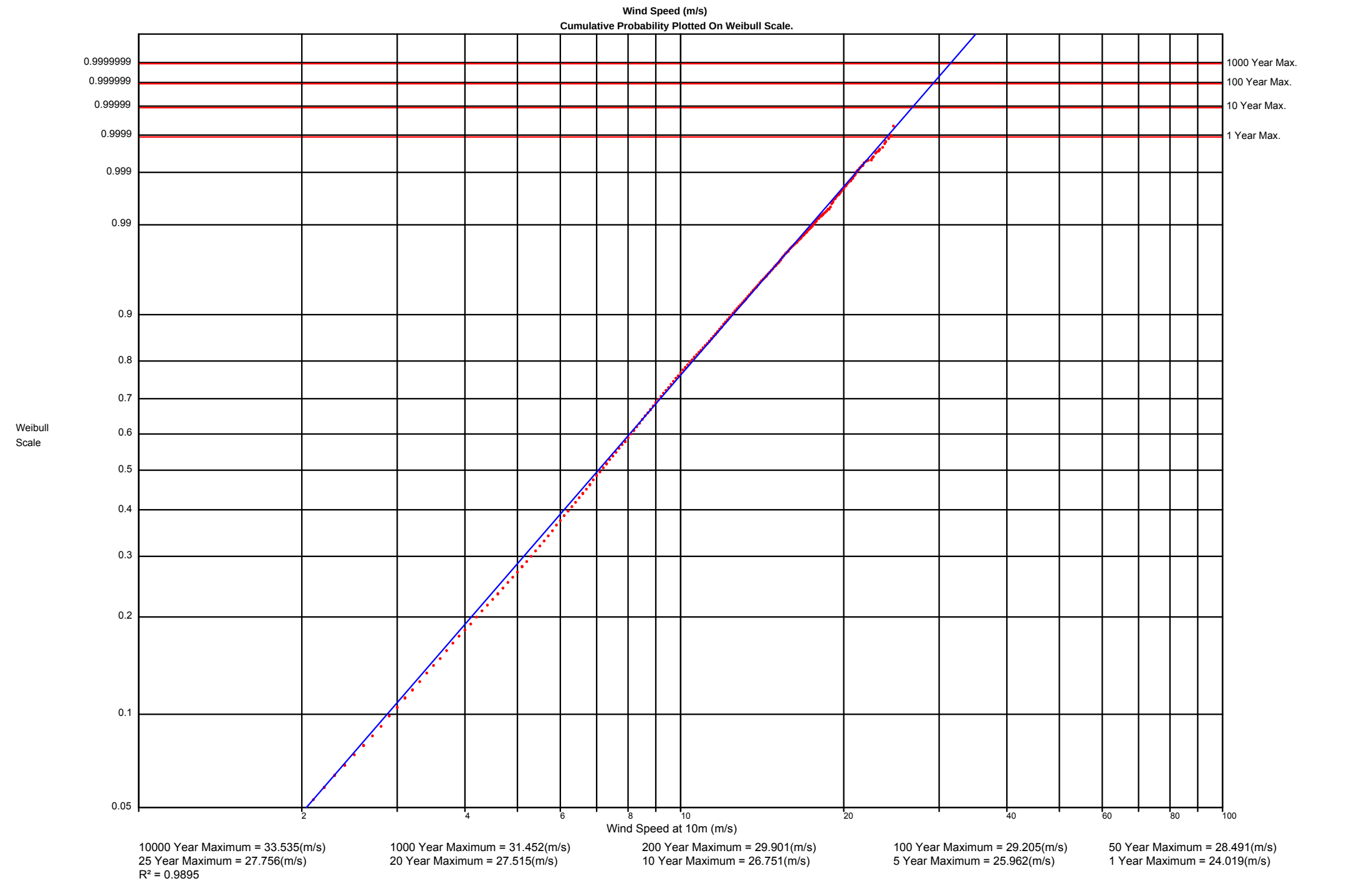
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Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Meteorological Station / MetOfficeModel
Serial No.: Modeled



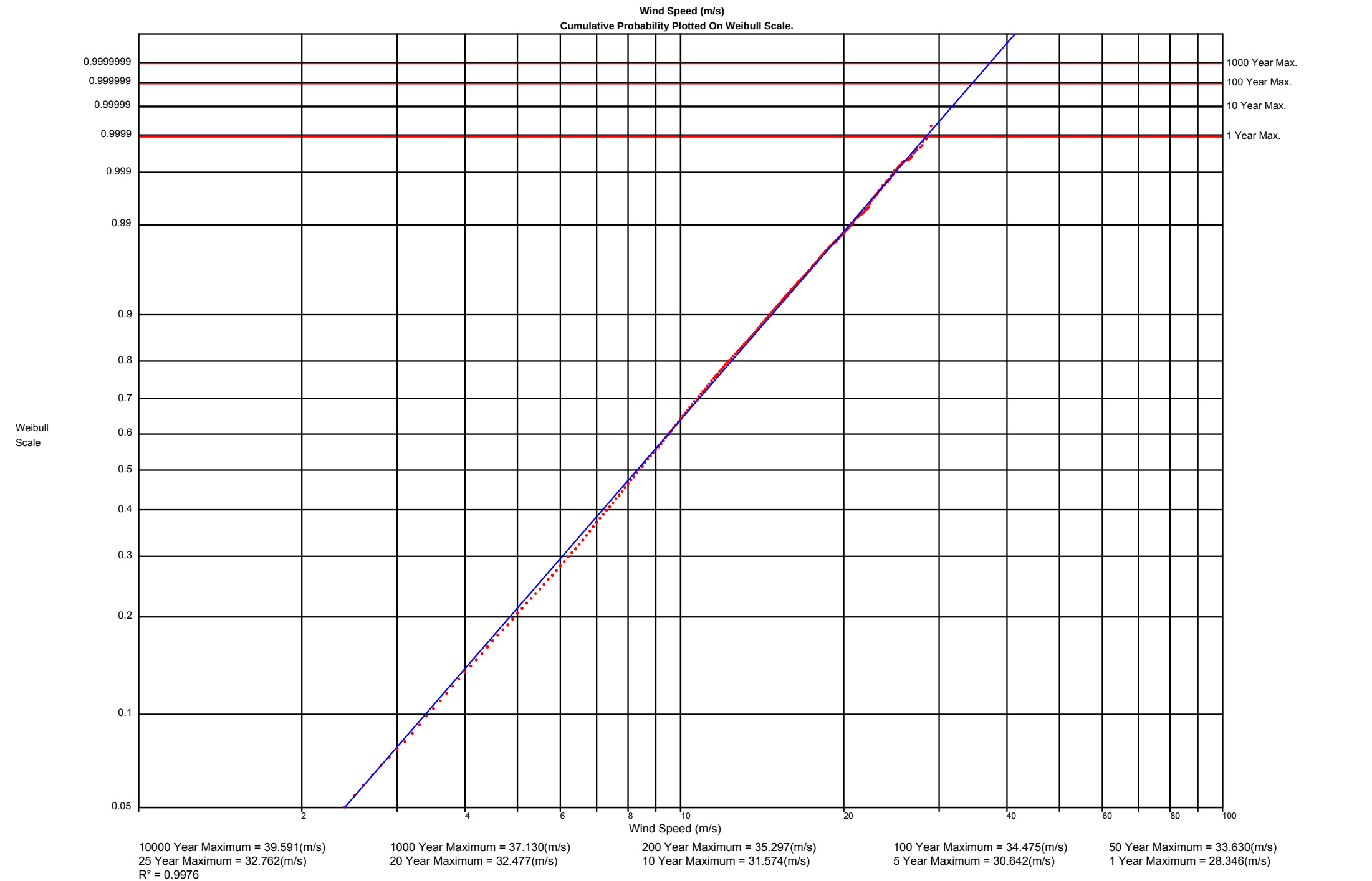
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Meteorological Station / MetOfficeModel
Serial No.: Modeled



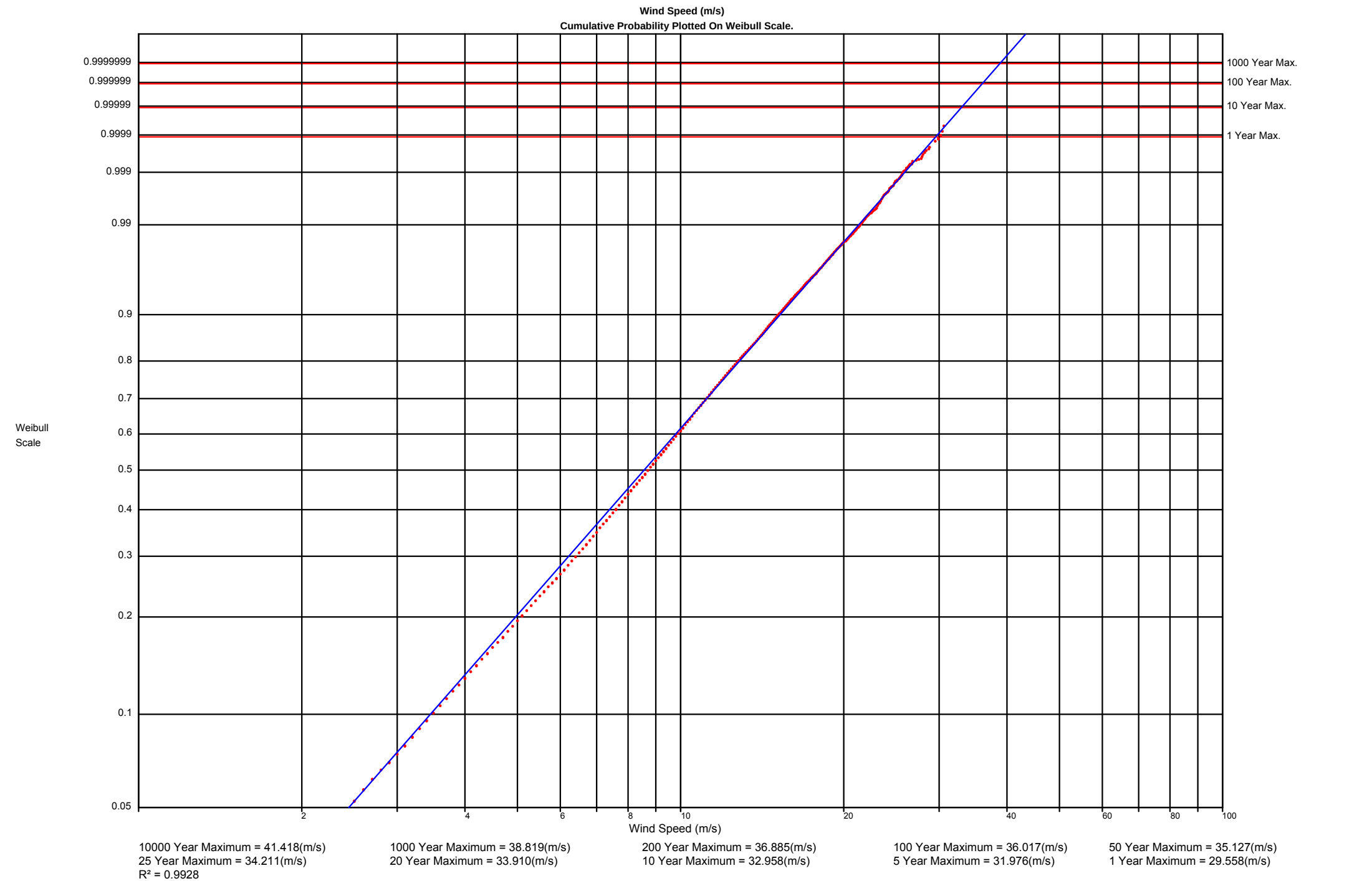
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Meteorological Station / MetOfficeModel
Serial No.: Modeled



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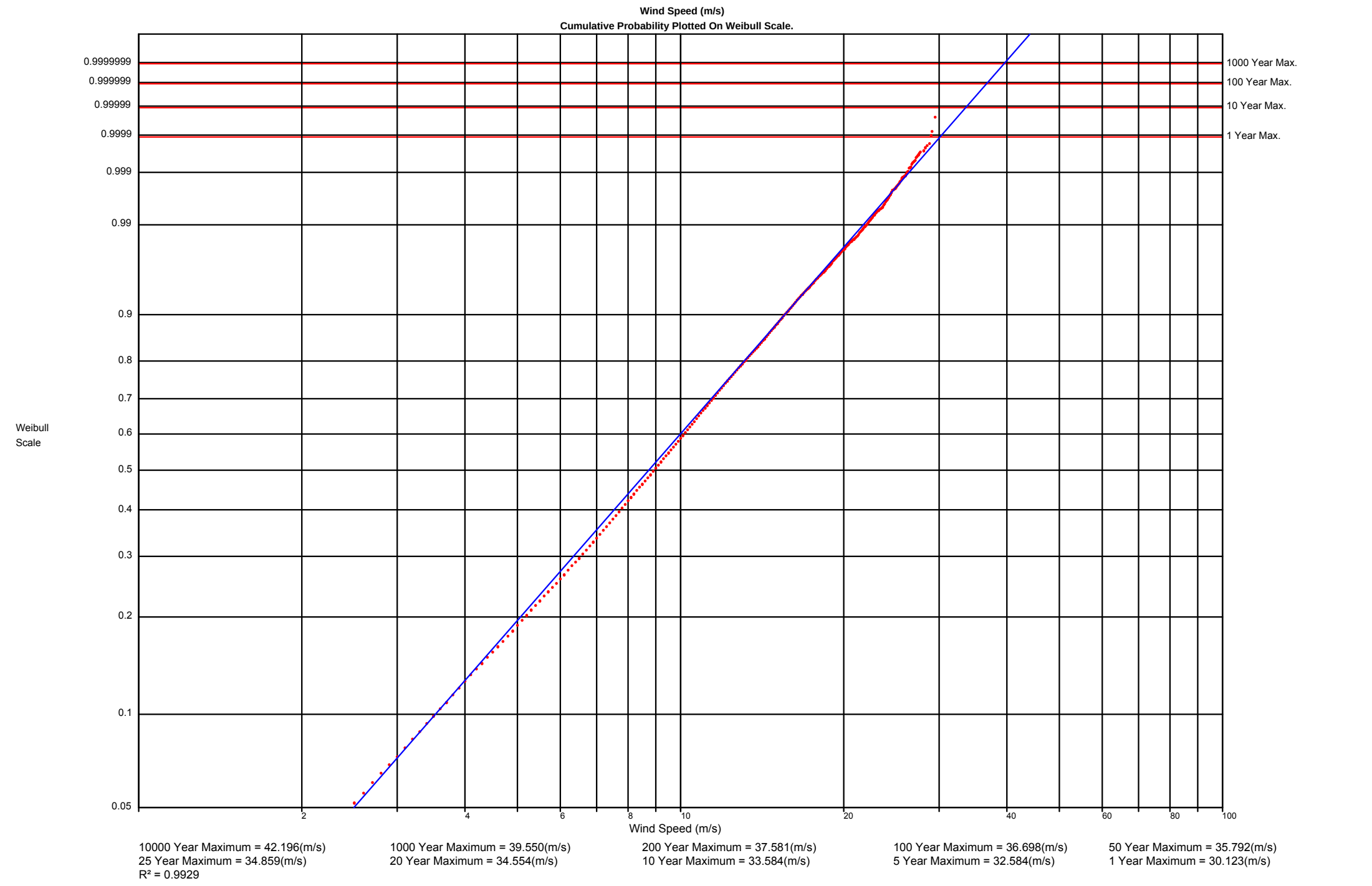
Meteorological Station / MetOfficeModel
Serial No.: Modeled



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Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

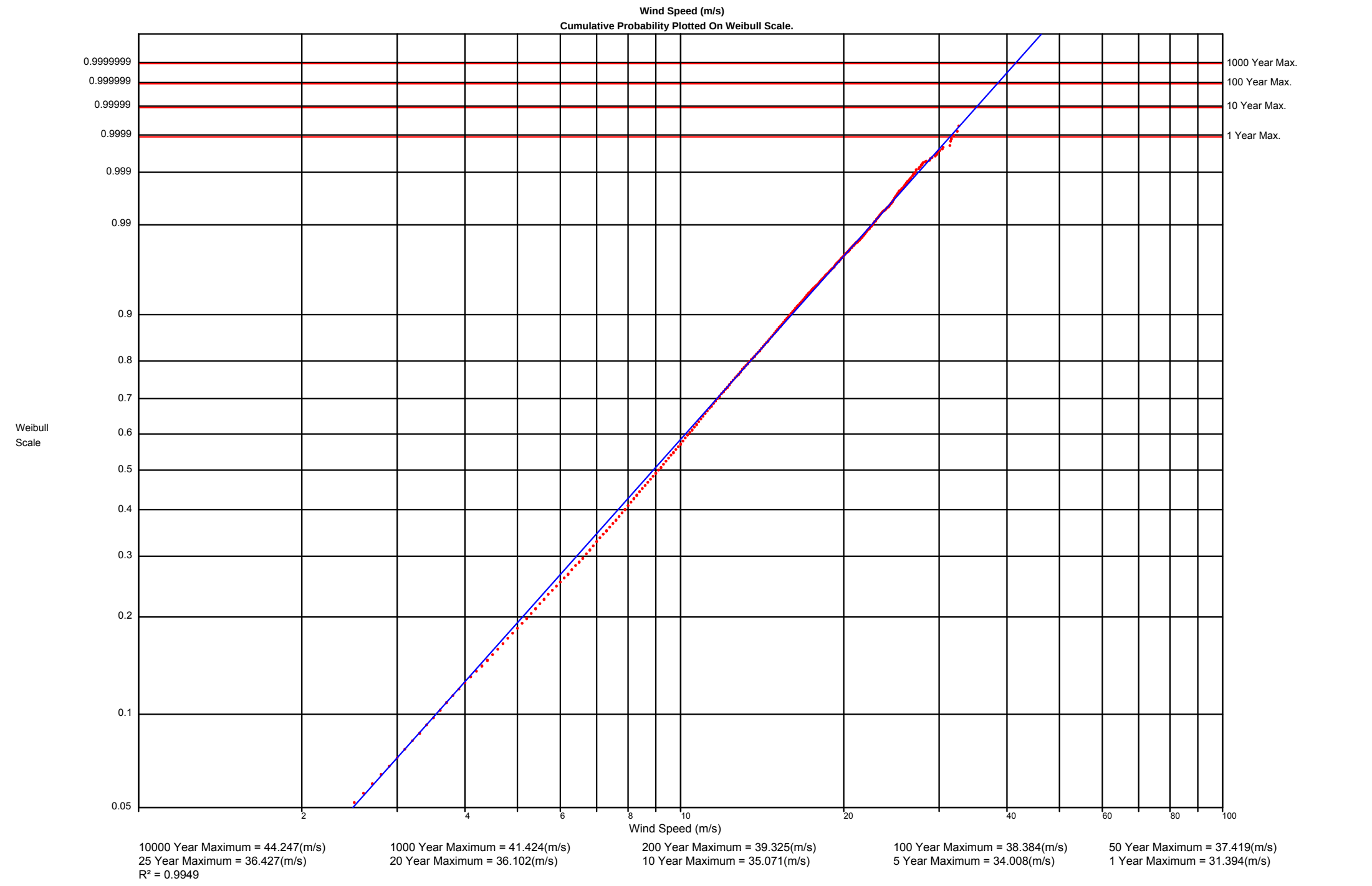
Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Meteorological Station / MetOfficeModel
Serial No.: Modeled



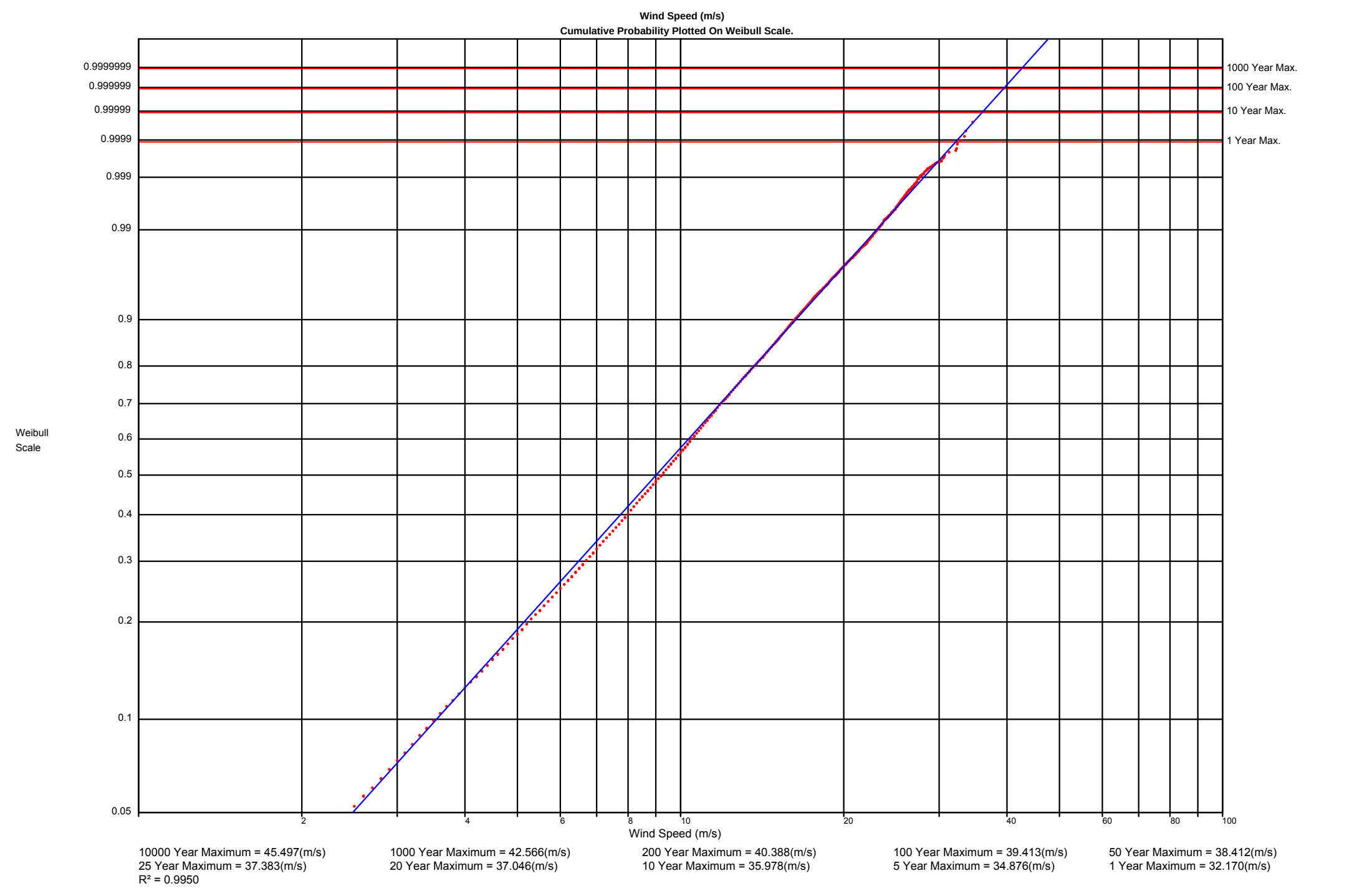
Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 125m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Meteorological Station / MetOfficeModel
Serial No.: Modeled



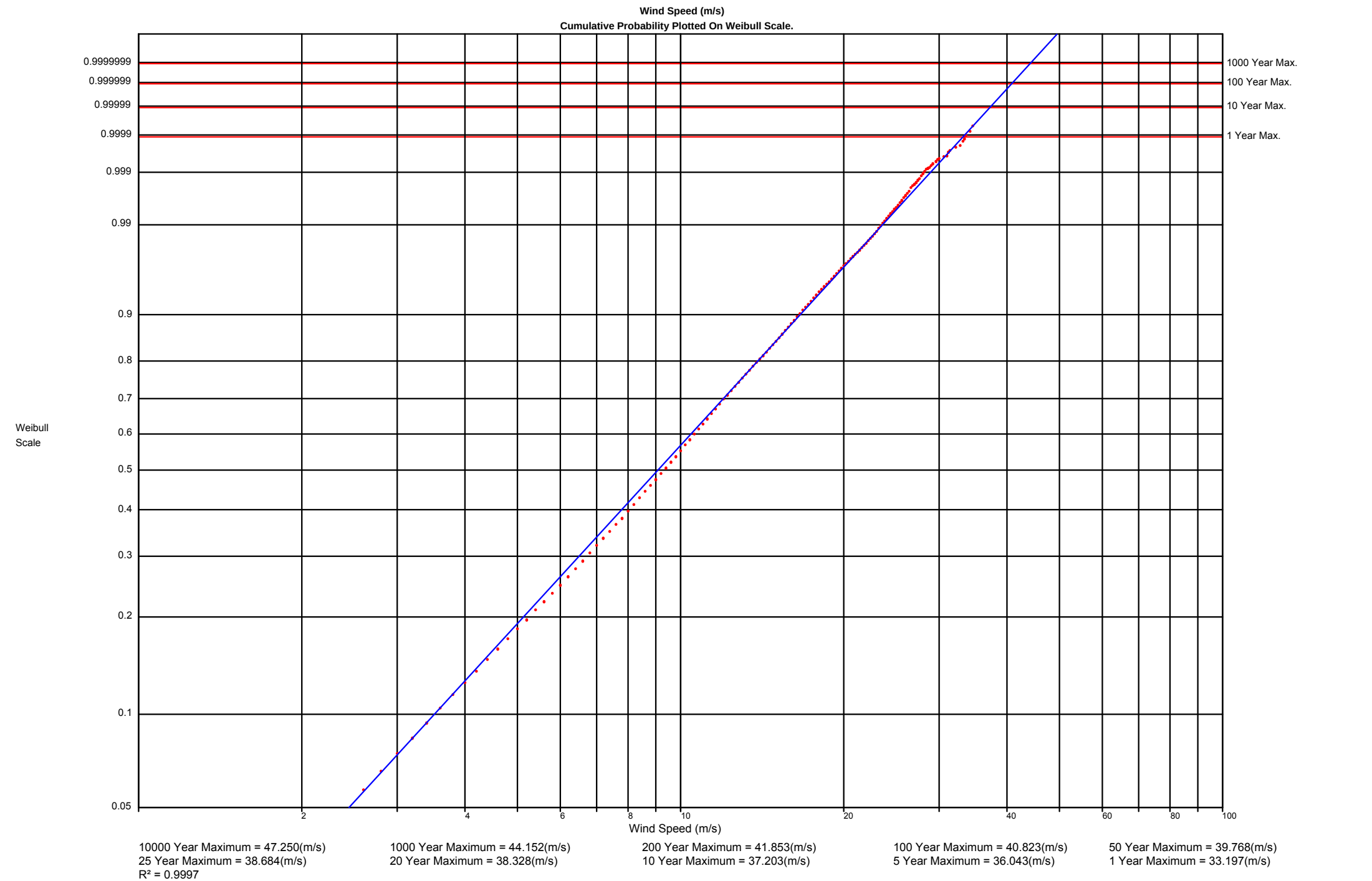
Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 150m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Meteorological Station / MetOfficeModel
Serial No.: Modeled



Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 175m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Meteorological Station / MetOfficeModel
Serial No.: Modeled



Meteorological Station / MetOfficeModel
Serial No.: Modeled

Job No: J/1/01/1743

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 1

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10		2	2		9	9	8	4	3	1	1		7	4	1																51	1.41
<20			4	2	7	5	7	7	5	3	4	7	7	8	4																70	1.93
<30	1		3	1	6	9	12	12	8	5	5	13	9	6	2																92	2.54
<40		3	2	1	2	4	11	22	19	12	12	6	4	4	1																103	2.84
<50		2	5	5	2	4	17	25	7	11	10	9	6	7	2	1		1	1												115	3.17
<60			3	4	5	3	6	8	11	16	8	8	11	27	12	5	3	3	1	2											136	3.75
<70		1	2	2	5	9	8	7	8	9	9	3	1	2	1	1															68	1.87
<80		1	1	7	6	4	6	9	7	8	8	3	1																		61	1.68
<90		1	2	6	6	8	5	5		4	12	8	5	1	1																64	1.76
<100		3	1	5	7	5	4	3	5	3	8	4	6	9	10	6															79	2.18
<110		1		1	5	8	11	7	9	9	9	4	1	6	6	6															83	2.29
<120		1	2	1	4	4	6	6		3	4	6	7	8	9	4															65	1.79
<130	2		4	2	3	2	7	4	7	4	8	5	1	1	2																52	1.43
<140	1	1	2	4	2	1	4	7	12	6	5	6																			51	1.41
<150	1	3	2	6	1	9	8	4	2	1	2	3	1																		43	1.18
<160			4	2	4	3	2	2		8	7	2		3	3	2	2	1		1											46	1.27
<170		1		4	2	4	4	4	3	4	10	16	2	1	2	5	2	1	1												66	1.82
<180	1	3	1	4	2	4		7	5	9	15	11	10	4	2	3	4	3	3	6	3										100	2.76
<190	2		3		1	6	6	7	7	9	12	17	8	12	3	5	5		3	2	2		1			1					112	3.09
<200		1		4	1	5	6	3	2	4	12	4	8	12	6	9	5	2	3	2	2	2		1							94	2.59
<210	1	1		1	1	2	3	2	5	7	13	7	13	13	9	16	15	17	14	10	9	1	2	2	1	1					166	4.57
<220	1	2	5	3	1	1	3	8	6	16	15	15	11	15	11	12	15	18	10	8	4	1	2								183	5.04
<230	3	3	1	3	3	2	4	6	8	4	8	11	16	17	14	9	11	11	3	7	6	1		2	5						158	4.35
<240	1	2	2	4	6	5	10	10	2	7	13	9	14	11	17	7	18	14	15	7	8	1		2	3	2	1	2	1		194	5.35
<250		1		2	7	7	4	8	8	16	11	17	10	8	12	14	16	17	14	7	2	2			1	1	3	1	2	2	193	5.32
<260		1	2		4	7	5	5	7	14	15	17	14	15	14	12	8	8	12	5	3	1	2		1	1	1	1			175	4.82
<270		7	2	1	2	6	12	7	3	12	14	11	8	12	17	9	6	7	3	2	4	5		2		1					153	4.22
<280	1		4	2	6	4	7	9	7	22	17	12	6	6	5	12	11	8	5	3	1		1								149	4.11
<290		1	3	6	5	10	10	19	12	8	8	10	10	9	11	4	6	5	2	1		1		1							142	3.91
<300	1	4	1	1	6	14	19	19	16	13	13	7	7	6	3	5	1	1													137	3.78
<310		4	5	6	10	9	17	8	10	7	2	5	1		1		1	1													88	2.42
<320	1	1	2	2	18	7	10	10	6	1	2	1	3	4	5																73	2.01
<330	1	1	2	4	7	11	10	9	12	3	2	3	1	4	1																71	1.96
<340		2	2	3	9	13	9	10	6	3	7	3		1																	68	1.87
<350		4	3	6	9	7	9	11	8	4	6	3	4																		74	2.04
<360			2	3	5	9	8	4	4	6	6	4	1	2																	54	1.49
																															3629	100.00
Count	18	58	79	108	179	220	278	298	240	272	313	270	214	238	187	147	129	118	90	63	45	15	8	10	12	6	5	4	3	2	3629	
%	0.50	1.60	2.18	2.98	4.93	6.06	7.66	8.21	6.61	7.50	8.62	7.44	5.90	6.56	5.15	4.05	3.55	3.25	2.48	1.74	1.24	0.41	0.22	0.28	0.33	0.17	0.14	0.11	0.08	0.06	100.00	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 2

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10			4	10	5	6	4	6	2	6			1	4	2	1			1												52	1.56
<20		3	8	3	9	13	4	8	3	4	3	4	2	7	2																73	2.20
<30		1	6	7	11	16	16	8	4	16	8	18	9	11	3	1															135	4.06
<40	1	1	4	7	21	14	20	8	3	8	9	10	8	5	4	2		1													126	3.79
<50		4	3	6	2	14	16	10	5	10	5	5	6	4	1	3	7	2	1												104	3.13
<60	3	1	1	3	10	11	6	9	3	4	5	9	11	24	10	4															114	3.43
<70	1	4	4	3	5	8	12	10	8	7	7	13	8	4	4	2															100	3.01
<80	1		2	9	1	4	10	5	11	2	5	7	14	7		4		3													85	2.56
<90		3	3	9	8	9	10	14	10	9	8	6	4	4	3	3	1														104	3.13
<100	2	1	4	4	7	8	12	19	13	9	3	4	4	3	4																97	2.92
<110		1	3	6	5	8	7	11	5	5	2	2	3																		58	1.74
<120		3	1	6	4	7	9	4	8	4	2	6		2			1														57	1.71
<130	1	2	4	4	7	9	3	9	3	5	1	4	2	3	1		1														59	1.77
<140	1	2	6	3	3	2	2	6	8	4	3	1	4	1	1	1															48	1.44
<150	1	1	3	1		3	4	5	4	1	1	2	3	2		1															32	0.96
<160		1	1	3	1	2	3	2	5	4	3		3	1	1																30	0.90
<170	1	2	2	1	4	4	6	4	10	5	3	3	8		1				2	1	1										58	1.74
<180	3	2	2	5	2	3	5	12	7	7	12	7	5	6	4	3	5	2	5	2	1										100	3.01
<190		3	3	3	3	3	9	13	4	17	17	11	10	6	1	1	2	1		1			1								109	3.28
<200	1	1	5	3	3	2	4	11	17	19	17	16	10	3	6	6	2	1	1		1										129	3.88
<210	1	2	2	2	5	3	2	6	10	13	16	11	6	8	6	7	4	4	3	1											112	3.37
<220		2	5	2	4	3	5	3	11	8	6	6	8	5	5	6	2			1											82	2.47
<230		6	2	2	1	3	7	4	6	8	13	9	12	5	5	5	3	5	4	1					1	1					103	3.10
<240		2	5	5	2	4	4	4	6	7	11	9	11	17	3	4	4	7	5	3	1			2							116	3.49
<250		2	3	3	6	4	7	10	11	4	16	8	16	12	8	4	5	5	6	6	4	2	3								145	4.36
<260			4	4	7	7	6	12	9	15	16	4	12	13	12	16	5	5	5	5	3	4									164	4.93
<270	1	1	5	6	6	8	8	8	21	16	21	4	5	3	4	3	4	3	3	1											131	3.94
<280	2		9	7	5	11	9	15	16	13	9	16	6	6	2	10	5	8	2	1											152	4.57
<290		2	3	3	8	13	8	11	17	13	7	6	5	10	1	2	3	4	2	1											119	3.58
<300			1		5	10	15	22	15	8	12	9	6	2	1	3	1														110	3.31
<310		1	3	5	6	8	5	22	7	6	8	6		2	5	4	1	2	1												92	2.77
<320		1	3	12	11	8	9	6	14	8	5	4	1			1				1	1	1									86	2.59
<330		3	8	12	8	7	5	3	3	4	4	1	2				1														61	1.83
<340		2	1	7	8	7	4	5	7	7	1	2	2																		53	1.59
<350		2	10	3	3	7	9	4	11	17	8	3		1					1												79	2.38
<360		1	1	4	9	3	7	6	9	5	1	2		1				1													50	1.50
																															3325	100.00
Count	20	63	134	173	205	252	272	315	306	298	268	228	207	182	100	97	57	53	43	25	12	7	6	0	1	1	0	0	0	0	3325	
%	0.60	1.89	4.03	5.20	6.17	7.58	8.18	9.47	9.20	8.96	8.06	6.86	6.23	5.47	3.01	2.92	1.71	1.59	1.29	0.75	0.36	0.21	0.18	0.00	0.03	0.03	0.00	0.00	0.00	0.00	100.00	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 3

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%	
<10	2	2	2	5	2	5	11	12	3	4	9	4	4	2	3	1	1	1													73	2.03	
<20	1	2	2	9	3	5	6	4	8	6	11	6	2		1	2	2	1	1												72	2.01	
<30	1	3	3	3	3	4	9	2	6	6	8	4	1	1	2																56	1.56	
<40	1	4	2	3	4	3	4	3	6	5	13	16	18	1	3																86	2.39	
<50			3	5	3	4	2	7	10	21	17	16	5	3																	96	2.67	
<60		2		1	3	10	4	13	4	12	24	26	14	9	8	2															132	3.68	
<70					2	5	5	6	3	12	23	25	7	13		1															102	2.84	
<80	1			2	3	4	9	4	5	4	16	19	6	3	5	9		1													93	2.59	
<90			3	2	4	7	10	6	14	9	6	10	2	5	1		2														81	2.26	
<100		1	1		2	1	7	7	2	7	1	4	2	7	1																43	1.20	
<110		1		1	1	1	6	1	2	1	1	1	1																		17	0.47	
<120		2	1	3	1	3	1	4	7	2																					24	0.67	
<130	1	3	2	1	4	3	3	4	2	2			1	1	2																29	0.81	
<140	1	4		3	1	6		10	5	2		1	1		2																36	1.00	
<150		2		1	3	2	8	5	3	4	11	4	3	1	1																48	1.34	
<160		1	2	1	2	4	2	6	2	12	6	1	3	1	3	3															49	1.36	
<170		1	3	3	2	3	4	5	5	9	2	6	5	2																	50	1.39	
<180		1	7	2		4	3	4	4	9	3	4	3	1	1	1		1	1								1	1	1		52	1.45	
<190	2	6	4	3	4	6	4	8	11	5	3	16	5	1	4	1	2	4	5	1	1		4								100	2.78	
<200		3	5	3	4	3	5	6	10	11	6	8	6	12	5	2	4	2	3	3	3	1	1	2		1					109	3.04	
<210	1	3	1	1	4	3	4	12	7	9	10	12	9	9	9	6	2	3	4	1	1		2		2			1			116	3.23	
<220	1	1	7	9	3	5	6	7	9		3	7	12	5	15	4	7	5	1		1		1								109	3.04	
<230		1	5	6	10	6	8	2	6	6	8	12	18	12	10	5	3	2	3	1	3	2	1	1							131	3.65	
<240		3	4	6	6	9	15	7	9	12	14	9	10	11	8	6	5	11	1	1	1	1	2								151	4.20	
<250	1		6	9	11	13	16	23	19	12	11	16	11	9	9	12	5	13	1	4	3	1	2	1			1				209	5.82	
<260			6	4	5	12	19	22	23	35	19	28	17	12	19	12	8	7	6	8	8	1		1		1					273	7.60	
<270		2	6	9	11	12	6	13	21	14	14	17	9	12	19	12	11	7	4	6	2	1	4	1	4		1		4		217	6.04	
<280	2	3	6	5	6	9	8	11	12	13	25	17	11	19	22	12	4	9	4	7	8	4	4								221	6.15	
<290	1	2	2	2	7	9	13	17	14	15	6	7	7	8	13	4	2	4	5	2	3										143	3.98	
<300	1	4	7	2	7	8	23	21	14	9	17	6	2	4	3	3	1	4						1							137	3.82	
<310	1	2	5	8	8	13	22	13	10	10	3	4	4	3	3	3		1	1	1											115	3.20	
<320		1	5	1	8	12	12	13	10	11	3	7	7	3	2	1	1															97	2.70
<330		1	2	8	11	8	8	11	9	7	4	2	3	3	4	3															84	2.34	
<340		5	3	6	4	4	6	7	5	6	8	3	4	1	1	2		1													66	1.84	
<350		1	3	6	12	10	5	10	6	9	9	2	4	5	4	4	2	1													93	2.59	
<360		2	2	2	8	4	8	12	10	2	7	5	3	5	4	1	4	2													81	2.26	
																															3591	100.00	
Count	18	69	112	135	172	220	282	318	296	313	321	325	220	184	187	112	67	79	40	35	34	11	21	7	6	3	3	1	0	0	3591		
%	0.50	1.92	3.12	3.76	4.79	6.13	7.85	8.86	8.24	8.72	8.94	9.05	6.13	5.12	5.21	3.12	1.87	2.20	1.11	0.97	0.95	0.31	0.58	0.19	0.17	0.08	0.08	0.03	0.00	0.00	100.00		

Rampion Offshore Wind Farm MetOcean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 4

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10		6	7	6	11	8	8	2	5	1	1																				55	1.56
<20	1	6	4	13	10	10	5	5	3	2	4	2																			65	1.85
<30	3	4	8	8	10	15	6	5	10	6	23	10	3	1	1																113	3.21
<40		3	2	6	7	17	11	21	26	31	27	17	11	4																	183	5.20
<50	2	3	4	8	5	16	11	25	17	30	24	19	4	1																	169	4.81
<60	3	3	4	9	5	9	10	11	15	16	8	12	3	1	2	4															115	3.27
<70		1	6	8	9	4	10	5	9	9	9	6	9	2	7	7	3														104	2.96
<80	2	4	8	6	11	14	11	10	18	6	9	6	8	4	7	5		2	1												132	3.75
<90		8	3	7	10	13	17	11	13	17	15	10	1	3	2	3	2														135	3.84
<100	1	1	3	13	8	20	20	25	13	8	4	3	1	7	2																129	3.67
<110	1	1	7	5	11	14	17	10	9	3		1		2																	81	2.30
<120		2	6	5	4	13	7	4	1	3	2		2	2																	51	1.45
<130	5	5	4	8	7	8	5	7	2	3	5	2	4	2																	67	1.91
<140	3	3	3	10	6	2	4	2	3	7	4	1	2																		50	1.42
<150	2	2	6	8	6	2	5	6	3			1	2	1	1	1															46	1.31
<160	1	1	6	3	6	9	10	8	2	5	2	3	2	2	1																61	1.73
<170	3	1	9	7	9	6	8	10	9	7	2	1	1	1																	74	2.10
<180	3	4	2	4	2	5	4	7	7	3	4	4	1	2		1															53	1.51
<190	1	5	3	3	4	6	9	2	6	9	5	2		1	1																57	1.62
<200		5	12	10	8	7	5	8	9	12	8		4	3	1	5	1	1	1												100	2.84
<210	2	10	8	14	3	6	5	4	2	14	9	1	5	4	3				1												91	2.59
<220	2	7	11	9	7	7	7	6	9	6	2	3	4	1	3		2	1													87	2.47
<230	1	8	4	8	8	9	7	6	11	9	9	2	2	1	3	1	2	4													95	2.70
<240	4	6	3	13	11	19	19	27	19	17	11	13	5	7	7	7	5	1													194	5.52
<250	1	6	13	8	15	15	19	28	29	18	17	9	9	11	2	4		3													207	5.89
<260	2	4	5	4	13	23	13	18	21	24	24	20	13	20	12	8	3														227	6.46
<270	4	2	9	10	14	17	25	19	19	12	19	8	9	2	1	1															171	4.86
<280	4	3	7	12	8	13	13	20	15	7	7	4	4	4		1															122	3.47
<290	1	4	4	4	6	17	27	16	7	3	3	2					1														95	2.70
<300	1		4	5	9	15	6	9	4	3	4	1																			61	1.73
<310	5	2	7	3	12	11	9	8	6	2	1																				66	1.88
<320	4	3	4	5	4	6	4	5	4				1																		40	1.14
<330	2	8	9	5	5	6	3	5	3																						46	1.31
<340		5	10	8	9		8	9	11	5		1																			66	1.88
<350	4	2	7	7	4	12	7	9	6	3	1	1																			63	1.79
<360	2	6	6	4	6	7	5	4	3	2																					45	1.28
																															3516	100.00
Count	70	144	218	266	283	381	360	377	349	303	263	165	110	89	56	48	19	12	3	0	0	0	0	0	0	0	0	0	0	0	3516	
%	1.99	4.10	6.20	7.57	8.05	10.84	10.24	10.72	9.93	8.62	7.48	4.69	3.13	2.53	1.59	1.37	0.54	0.34	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 5

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10	1		3	11	7	4	3	1	6	6	2			1	2	1		1		2											51	1.39
<20	2	4	3	6	18	13	13	7	6	5	4	1			1	1															84	2.30
<30	3	3	7	9	7	11	2	14	16	9	3	2	1	1		1															89	2.43
<40	2	5	5	9	9	10	17	18	27	14	11	3	7	5		1															143	3.91
<50	1	4	4	2	22	12	26	30	27	26	16	13	11	10	6	10	4														224	6.12
<60	3	5	6	5	13	9	7	11	8	8	13	10	6	6	3	5	2	1													121	3.31
<70	1	5	1	6	5	6	10	18	9	11	8	11	11	13	1	1															117	3.20
<80	1	3	2	8	9	6	7	11	20	19	21	14	15	8	1	1															146	3.99
<90		4	10	12	10	11	16	17	31	33	45	36	13	1																	239	6.53
<100	4	6	8	5	4	7	10	18	23	23	14	9		1																	132	3.61
<110	1	3	5	10	10	12	8	12	10	4	3	2																			80	2.19
<120	1	3	7	5	7	5	13	6	2	2	1	1																			53	1.45
<130	2	2	4	6	4	7	5	2	1	2																					35	0.96
<140	1	4	7	6	6	1	6	2	1	2	2	1																			39	1.07
<150	1	4	2	1	4	1	1	3	2	2	2	1	2																		26	0.71
<160	1	5	8	1	8	2	1	3	3	1	1		1																		35	0.96
<170	1	2	3	7	2	3	7	2	2	2	2	1	1	2																	37	1.01
<180	1	6	2	8	6	5	7	1	6	4		2	2	5	2		2														59	1.61
<190	2	4	4	4	3	1	3	3	5	3	1	3	1	2	1		2														42	1.15
<200	2	4	6	5	3	5	2	2	7	7	1	2	6	5	1	1	3		1	1											64	1.75
<210	1	5	11	5	4	3	3	3	2	1	1	6	8	8	5	2	3	2													73	2.00
<220	1	5	4	10	10	5	6	9	5	1	5	11	7	5	6	5	1	5		1			1								103	2.82
<230	4	4	5	3	9	8	10	10	14	12	17	24	8	5	4	2	5	2	1												147	4.02
<240	3	5	6	15	7	6	10	13	16	22	15	21	17	17	8	10	3	5	3			1			1						204	5.58
<250	1	3	11	11	14	14	19	21	29	38	24	32	26	20	26	13	23	7	9	2	2		1	1							347	9.49
<260	1	4	4	9	14	15	19	27	26	19	28	30	21	24	16	13	6	6	1												283	7.74
<270	1	6	3	3	10	21	23	25	17	19	12	9	7	4	4	1															165	4.51
<280	2	6	11	6	9	9	10	18	12	11	4	1	1	4	1																105	2.87
<290	1	4	7	4	4	6	11	11	11	7	6	2	2				1														77	2.10
<300		8	4	10	5	5	15	9	7	4	3					1															71	1.94
<310		3	7	8	8	4	6	2	2	3	1		1																		45	1.23
<320	1	1	1	6	2	4	4	3	6	3									1												32	0.87
<330			6	4	11	5	3	6	5			5																			45	1.23
<340		2	4	8	12	5	14	3	4	3	3		1	2			1														62	1.69
<350		2	2	5	3	6	4	6	3	4		1	1	1	3	1	1														43	1.18
<360		1	4	5	4	3	2		3	3	8			1	1	3			1		1										40	1.09
																															3658	100.00
Count	47	135	187	238	283	250	323	347	374	333	277	254	177	151	92	73	57	29	17	6	3	1	2	2	0	0	0	0	0	0	3658	
%	1.28	3.69	5.11	6.51	7.74	6.83	8.83	9.49	10.22	9.10	7.57	6.94	4.84	4.13	2.52	2.00	1.56	0.79	0.46	0.16	0.08	0.03	0.05	0.05	0.00	0.00	0.00	0.00	0.00	100.00		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 6

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%	
<10	1	3	4	7	9	7	4	4	1	1	1																				42	1.18	
<20		12	8	2	7	4	3	11	2	2	1																				52	1.47	
<30	2	7	8	5	7	3	8	11	17	13	7		2	3																	93	2.62	
<40	1	2	7	8	9	6	9	25	16	13	11	12	5	4																	128	3.61	
<50	1	4	7	8	16	9	13	6	13	31	21	3	2	2	2																138	3.89	
<60		8	7	7	16	9	2	2	6	9	6																				72	2.03	
<70	1	4	5	9	13	12	5	5	6	2	2																				64	1.80	
<80	2	7	9	11	12	10	6	14	4	1	6	9	5																		96	2.71	
<90	2	12	9	17	13	11	14	24	21	28	27	17	7	5																	207	5.83	
<100	3	7	14	13	11	12	18	21	20	22	10	3																			154	4.34	
<110	2	4	12	11	14	13	17	10	9	6	12	3																			113	3.18	
<120		7	12	8	12	5	4	3	5		2	1																			59	1.66	
<130	3	4	11	7	11	7		1	2	2	1																				49	1.38	
<140	1	8	8	14	2	5	3	1	2	1	1																				46	1.30	
<150	2	1	5	4	8	4			1	1	1																				27	0.76	
<160	2	1	7	5	7	4	3	2	2		2	1																			36	1.01	
<170		6	7	8	7	2	3	4	4	1	1	3																			46	1.30	
<180	3	7	9	7	7	5	6	10	1	2	1	1																			59	1.66	
<190	2	4	4	6	7	3	8	7	9	2	1																				53	1.49	
<200	3	1	6	10	6	5	8	7	11	5	2	2																			66	1.86	
<210	2	3	6	8	10	6	6	9	16	8	4	3		1		1	1	1	1												86	2.42	
<220		7	9	6	9	4	5	7	13	7	6	2			1	1	1	1													79	2.23	
<230	2	10	6	14	16	3	9	10	4	8	11	12	4	5	2	2	1	1													120	3.38	
<240	2	3	4	12	16	16	14	20	21	20	7	6	8	12	7	3	2														173	4.88	
<250	1	7	4	7	20	11	19	26	26	30	29	38	19	30	18	3	5														293	8.26	
<260	2	3	9	18	18	24	33	28	29	34	39	23	18	9	4	2															293	8.26	
<270	2	5	11	11	13	21	26	24	28	24	12	7	4	3																	191	5.38	
<280	3	9	9	16	12	18	29	28	14	10	6	10	3																		167	4.71	
<290	4	9	11	11	13	15	19	17	8	2	5																				114	3.21	
<300	4	6	8	14	10	14	15	17	12	6	2	1																			109	3.07	
<310	1	3	8	10	2	8	8	6	3																						49	1.38	
<320	3	3	4	8	4	8	6	2	1	2			1			2	1														45	1.27	
<330	2	3	7	6	6	8	3	3	4	2		1				2			1		1										49	1.38	
<340		3	3	9	14	18	3	1	4	3											1										59	1.66	
<350	1	4	5	8	9	12	3	4	7	8	1																				62	1.75	
<360	1	8	13	5	5	5	11	8		1	1	1																			59	1.66	
																																3548	100.00
Count	61	195	276	330	371	327	343	378	342	307	239	159	78	74	34	16	11	3	2	2	0	0	0	0	0	0	0	0	0	0	3548		
%	1.72	5.50	7.78	9.30	10.46	9.22	9.67	10.65	9.64	8.65	6.74	4.48	2.20	2.09	0.96	0.45	0.31	0.08	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00			

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 7

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10	2	1	4	1	2		1		1																						12	0.34
<20			2	3		1	1	1																							8	0.23
<30			3	1	4	1	1		1																						11	0.31
<40		1	1			4	2		1	6																					15	0.43
<50	2	2		2	1	2	2	2	3	6	2	2																			26	0.74
<60	1	2	3	6	3	5	6	5	3	6	3	6																			49	1.40
<70		2	3	5	2	6	6	9	2	2	1																				38	1.08
<80	1	2	2	4	8	6	7	11	13	15	10	6	2	3																	90	2.57
<90		3	3	2	3	2	10	13	17	24	20	9	2																		108	3.08
<100		2	1	5	5	4	11	15	23	18	6	2	3				1														96	2.74
<110				1	3	5	6	11	7	3	1	1	2																		40	1.14
<120		1	1	1	3	5	6	1	4	3	4						1														30	0.86
<130			1	1	2	5	3	6	1	1	1	1	1																		23	0.66
<140		3	6	4	3	2	1	1	4	1	1		2																		28	0.80
<150	2	5	11	3	5	2	5		7	1			1																		42	1.20
<160		2	2	3	3	9	5	1	1	3	1																				30	0.86
<170	2	3	5	3	6	7	1	5	2	3	1	1																			39	1.11
<180	1	4	2	6	10	7	5	6	2	3	1	1																			48	1.37
<190	1	4	7	13	10	3	7	4	1	3	3	1	2	1			1			2	1										64	1.83
<200		2	9	9	10	9	10	6	14	6	2	7	4	5	8	1			1												103	2.94
<210	1	5	8	5	8	8	23	20	14	15	12	11	7	7	8	1	1		1												155	4.42
<220	1	4	8	12	12	10	18	24	28	10	7	5	4	3	4	3	4	4	1												162	4.62
<230	2	4	3	16	15	23	30	27	26	31	15	13	8	9	4	6	3	2	2	1											240	6.85
<240	4	8	5	10	17	22	37	26	37	32	29	15	18	9	15	7	7	2													300	8.56
<250	2	6	6	5	13	29	32	37	58	55	62	51	38	12	20	8	3	1	3												441	12.59
<260	2	3	7	14	16	26	35	33	49	45	36	42	32	34	29	12	8	2													425	12.13
<270	1	7	5	11	19	25	37	35	32	25	19	9	13	10	4	3	1	1													257	7.33
<280		5	6	11	24	17	32	29	17	9	16	5	7	6	7	5	3	4	2												205	5.85
<290	1	3	8	9	10	19	20	12	11	11	4	4		2	1	3	1														119	3.40
<300		4	2	6	12	15	14	10	6	6	7	3			1																86	2.45
<310	1	2	1	8	8	12	6	7	5	4	1																				55	1.57
<320	1	1	4	7	8	5	2	6	9	5	1	1																			50	1.43
<330	3		6	3	5	6	4	2	7	1	2																				39	1.11
<340	2	1	3	3	7	6	2	3	5	4																					36	1.03
<350			1	2	5	2	1	5	1																						17	0.49
<360	1	4	1	5	3	1	1			1																					17	0.49
																															3504	100.00
Count	34	96	140	200	265	311	390	373	412	358	268	196	146	101	101	49	34	16	12	2	0	0	0	0	0	0	0	0	0	0	3504	
%	0.97	2.74	4.00	5.71	7.56	8.88	11.13	10.64	11.76	10.22	7.65	5.59	4.17	2.88	2.88	1.40	0.97	0.46	0.34	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 8

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10		1	2	6	7	6	9	5	3	5	4	5	3		1	1															58	1.96
<20	1		1	3	5	2	3	3	4	2	4	4			1																33	1.12
<30			3	8	5	4	1	2	5		1																				29	0.98
<40		2	3	7	4	3	2	1	2	1																					25	0.85
<50	1	2	2	4	4	2	4	1	1																						21	0.71
<60	1	1	2	1	1	2	6	3																							17	0.58
<70			1	1		1	3																								6	0.20
<80			5	4	3	2		1																							15	0.51
<90	1	4		2	2	5	3	2	2																						21	0.71
<100			1	2	9	10	8	7	4																						41	1.39
<110			1	3	4	3	8	3	1	2																					25	0.85
<120	1	2	1	2	4	3	3	3	3																						22	0.75
<130			1	5	6	9	4	2	1	1																					29	0.98
<140		2	1	1	3	9	3	3	3	2	2																				29	0.98
<150	1	1	2	4	5	1	5	3	6	4	1																				33	1.12
<160		2	3	7	7	7	6	7	7	2																					48	1.63
<170		1		4	6	1	6	2	4	6	2	1																			33	1.12
<180		2	2	3	2	8	5	5	8	7	3	1	5			1	2	1													55	1.86
<190	1	1	5	6	7	7	3	6	6	9	13	7	10				1	1	1												84	2.85
<200		3	4	4	6	4	5	4	7	4	6	10	1	3			3	2													66	2.24
<210			6	9	8	14	9	6	4	3	7	4	4	3	4																81	2.74
<220	1	2	4	16	9	7	7	10	9	11	7	7	8	6	5	2		1													112	3.79
<230		3	6	9	11	12	9	22	16	13	7	6	6	5	5	5	3	2							1						141	4.78
<240	1		3	11	7	13	36	22	20	35	27	27	18	7	7	5	15	5		1	1	1					1			263	8.91	
<250	1	1	2	8	6	22	27	28	32	34	45	25	10	5	7	4	8	2	1			1	2								271	9.18
<260			2	9	10	19	20	18	40	42	54	42	39	20	7	2	3	5	2		1										335	11.35
<270	1	2	4	6	11	6	16	33	32	24	15	11	3	2	2	2	1														171	5.79
<280		3	4	9	8	14	18	24	14	13	11	10	4	1	2																135	4.57
<290	1		7	8	11	21	21	21	17	12	14	9	4	2	3																151	5.12
<300		1	5	6	11	21	19	15	23	20	8	4	1	1																	135	4.57
<310		3	6	10	9	18	15	14	6	6			1																		88	2.98
<320			3	9	7	7	10	14	12	11	2	6																			81	2.74
<330	1	2	3	4	10	13	10	8	5	3	4	5	2	1	5	1															77	2.61
<340	1		3	7	12	8	12	2	3		6	10	7	4	1																76	2.57
<350	2		3	5	4	4	7	7	7	8	2	6	5	3																	63	2.13
<360		2	5	4	7	7	6	5	7	3	8	3	5	9	7	4															82	2.78
																															2952	100.00
Count	16	43	106	207	231	295	329	312	314	283	253	203	136	72	57	27	36	19	4	1	2	2	2	1	1	0	0	0	0	0	2952	
%	0.54	1.46	3.59	7.01	7.83	9.99	11.14	10.57	10.64	9.59	8.57	6.88	4.61	2.44	1.93	0.91	1.22	0.64	0.14	0.03	0.07	0.07	0.07	0.03	0.03	0.00	0.00	0.00	0.00	0.00	100.00	

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 9

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10		5	9	7	4	14	9	5	2	11	8	18	6	3	10	3															114	4.24
<20	1	1	10	8	15	9	5	3	8	13	9	7	5	2																	96	3.57
<30	3	4	6	6	9	8	8	3	13	24	14	5	10	2																	115	4.28
<40	1	3	9	7	6	5	5	9	23	15	12	3	3	5	4																110	4.09
<50	1	1	4	6	16	4	8	27	10	11	9	3		1	3																104	3.87
<60		1	1	5	7	3	14	16	11	19	11	5																			93	3.46
<70		3		4	12	3	13	10	13	3	2																				63	2.34
<80	1	2		3	1	5	10	5	14	10	4	3	2																		60	2.23
<90	1	5	5	4	1	9	11	7	10	20	4		3																		80	2.98
<100	2	5	1	8	8	11	18	10	12	11	2	1																			89	3.31
<110	1		3	8	7	6	24	4	2	4	2																				61	2.27
<120		1	1	5	3	1	6																								17	0.63
<130		3	6	2	4	8	3	1	3	1																					31	1.15
<140	1		1		3	1	7	4	1		2	1	2																		23	0.86
<150			2	2	1	3	1	1	4		1	3	6	3	1																28	1.04
<160		1	4	1			1	2	2	2	4			5	4	1															27	1.00
<170	1		5	1	2		3	1	1	2	7	5	1	4	1			1													35	1.30
<180	1		3	1	4	2	1	1	4	5	6	4	1	3	1	1		1													39	1.45
<190	1		1	2	3	3	7	5		7	11	3	1	1	1			1		1											48	1.79
<200		2	1	2	6	2	3	7	5	3	4	11	1	1		2	1			1		1									53	1.97
<210	2	2	6	5	3	2	3	7	4	10	7	5	5	4	6	5	4	4													84	3.13
<220	1	1	1	2	4	3	3	9	5	10	11	10		3	2	2	2														69	2.57
<230	2	3	6	3	5	5	3	7	1	4	6	9	6	10	6	5	4	2	2												89	3.31
<240	1	2	3	3	4	5	10	5	6	3	4	17	6	5	10	8	10	8	1										1		112	4.17
<250			3	3	8	6	16	10	21	13	6	9	10	19	15	7	7	5													158	5.88
<260			2	5	7	13	10	19	17	22	9	13	8	12	3	7	6	3	4	1											163	6.06
<270		2	3	10	9	11	16	14	20	17	16	8	5	7	3	3	4	7	3											1	161	5.99
<280	3	2	5	8	8	15	15	12	14	10	7	5	6	7	3	3	1			1											127	4.72
<290	1	3	3	3	10	21	12	10	11	9	6	8	12	5	3	2		1													120	4.46
<300	1	2	7	4	7	10	19	8	5	4	2	5	4	1																	79	2.94
<310	1	1		4	7	7	6	3	2	1																					32	1.19
<320	2	2	3	3	4	3	6	2																							25	0.93
<330		3	3	4	2	11	2	1	1	2																					29	1.08
<340		3	3	7	2	7	3	2	5	4		2	1		2																41	1.53
<350		1	1	2	3	6	9	5	5	8		5	3																		48	1.79
<360		2	4	2	7	2	8	3	2	11	8	9	3	3	1																65	2.42
																															2688	100.00
Count	29	66	125	150	202	224	298	238	257	289	194	177	110	106	79	49	39	33	10	4	8	0	1	0	0	0	0	0	0	0	2688	
%	1.08	2.46	4.65	5.58	7.51	8.33	11.09	8.85	9.56	10.75	7.22	6.58	4.09	3.94	2.94	1.82	1.45	1.23	0.37	0.15	0.30	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 10

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10	3	3	3	13	6	2	2	1	6	4	7	2																			52	1.81
<20		1	4	4	4	2		3	2	4	2	4		1																	31	1.08
<30	1	8	2	3	2	2	1	3	1	2	7	9	2	1																	44	1.53
<40	2	3	4	7	6	3	2	6	4			3	1	1																	42	1.46
<50	1	5	4	8	11	9	6	4	1		1	3		2																	55	1.91
<60	1	2	5	5	4	8	19	23	8	3	11	10	3		1																103	3.58
<70	1	3	3	1	5	7	13	14	6	8	9	8	1		1																80	2.78
<80		1		3	5	4	6	5	7	9	5	3	3	1	1																53	1.84
<90	2	2	3		5	5	11	10	5	9	6	11	3	3	1																76	2.64
<100	1	3	1	2	5	9	5	4	2	1	1	1	1																		36	1.25
<110	1	2	3	5	5	5	1	1	2	3		4	1																		33	1.15
<120		1	3	3	6	3	3		4	3	3	2	1																		32	1.11
<130		4	3	1	5	3	4	1	11	8	1	1	1	2	4																49	1.70
<140		3	1	7	6	5	2	7	6	9	4	1	1		2	1	1														56	1.94
<150		3	3	7	7	8	4	4	4	4	3	1	5	3	1	1															58	2.01
<160	1	1	2	11	4	10	7	5	6	4	2	1	9	10																	73	2.53
<170		2	3	3	4	1	7	10	3	7	4	5	5	2	1		1														58	2.01
<180	1	2	5	2	3	2	12	14	6	9	3	10	2	3	4	3	1	1													83	2.88
<190		2	2	6	5	4	6	4	10	9	7	3	4	4	4	2	2	5													79	2.74
<200		4	4	3	3	5	5	3	7	8	4	4	6	7	2	4	3	3	2												77	2.67
<210	1	1		4	8	10	6	3	5	5	3	6	9	12	12	3	2	2		2	1										95	3.30
<220	3		2	9	8	10	12	13	12	10	6	11	9	15	19	26	7		5	3	2	4	3								189	6.56
<230		2	3	6	7	6	6	14	10	11	19	18	10	6	16	7	3	3	2	3		1	2	1							156	5.42
<240	1	2	3	5	8	8	12	11	14	19	12	7	8	7	9	5	6	2	1												140	4.86
<250	1	1	2	6	5	3	7	7	15	7	7	7	5	8	10	6	8	3	1	1											110	3.82
<260		2	2	10	10	1	7	9	11	12	13	15	9	11	6	2		3	9	3	2										137	4.76
<270		2	4	9	18	12	5	12	11	5	7	11	7	4	2	2		2	6												119	4.13
<280			2	14	13	16	9	24	12	13	10	4	10	5	8	2	6	3													151	5.24
<290	1	3	5	5	4	5	14	18	23	16	5	7	9	6	3	1	6	2	1												134	4.65
<300		3	4	7	6	13	13	30	13	12	9	10		7		1															128	4.44
<310	1	2	4	4	11	8	8	10	3	9	6	4	2	2		1															75	2.60
<320	1		2	5	4	7	1	5	7	4	5	2	3																		46	1.60
<330	1	3	4	3	2	4	5	5	4	5			6	2																	44	1.53
<340	1	3	3	4	3	7	11	13	6	4		2	4		1		1														63	2.19
<350		1	2	7	4	11	8	4	9	8	2	7	3	2	1	1	1														71	2.47
<360		1	3	4	5	8	9	2	5	4	2	2	3	1	3																52	1.81
																															2880	100.00
Count	26	81	103	196	217	226	249	302	261	248	186	199	146	128	112	68	48	29	27	12	5	5	5	1	0	0	0	0	0	0	2880	
%	0.90	2.81	3.58	6.81	7.53	7.85	8.65	10.49	9.06	8.61	6.46	6.91	5.07	4.44	3.89	2.36	1.67	1.01	0.94	0.42	0.17	0.17	0.17	0.03	0.00	0.00	0.00	0.00	0.00	100.00		

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

Meteorological Station / MetOfficeModel
Serial No.: Modeled

Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 11

	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10		1	4	8	9	4	10	15	14	8	5	1	2	2	2																85	2.99
<20		1	3	4	10	4	4	14	10	6	4	14	1	1			1	1	1	1											80	2.81
<30	1		2	7	8		2	2	8	4	8	5	3	1	2	2															55	1.93
<40		4	1	7	1	4		5	6	2	5	5	4		2	2	2														50	1.76
<50		1	4	5		3	2	10	5	7	10	3	3		1																54	1.90
<60		3	3	3		5	3	4	4	3	4	1		1	1	1															36	1.26
<70			3	3	2	5	3	3	2	3	1		1	1																	27	0.95
<80		2	1	1	5	4	7	1		2	2																				25	0.88
<90		1	2	1	3		2		2		1	1			1																14	0.49
<100	1	1		1	2	1	1		2		1		1																		11	0.39
<110			3	1	1		2																								7	0.25
<120	1		3	1	1	1	1			1	1																				10	0.35
<130			1	5		2	2	3	1	1																					15	0.53
<140				2					2			1	1			1		1													8	0.28
<150			2	5		1		2	2	1	1	1			2			2	2												21	0.74
<160			1	1	1		1	2	1	2	2		2	2	1	1			4												23	0.81
<170			1	2		2	1	2	2	4	6	13	3	9	4	1	3	3		1											60	2.11
<180		3			1	3	1	1	1	1	5	6	8	4	14	10	1	1	2	2	2	5									71	2.49
<190			1		2	1	4	7	1	3	5	5	12	12	14	15	6	6	1		3		1								100	3.51
<200	1			2	3	3	4	4	5	5	5	5	12	13	12	16	19	12	7	3	6	5	1	1	1						145	5.09
<210		2		2	1		2	7	4	12	4	6	12	6	11	11	11	9	6	5	9	7	3	8	2						140	4.92
<220			1	2	1	3	2	5	7	5	4	8	10	6	6	4	7	10	7	8	10	1	7	3							117	4.11
<230		1		2		1	3	4	9	8	2	7	8	10	9	12	8	7	5	2	5	5	3								111	3.90
<240		1			1	3	4	8	9	9	8	7	11	8	15	14	10	6	2	7	4	5		1	1						134	4.71
<250			2	2	1	2	2	3	4	9	12	7	16	18	15	17	8	9	6	3	7	5	2	1	1						152	5.34
<260		2	2	6	4	1	7	6	6	7	11	10	15	13	12	23	14	10	9	3	2	1	3	2	1						170	5.97
<270		1	2	4	2	5	7	12	13	17	15	9	10	12	11	8	8	3	5	2	1	1									148	5.20
<280	2		1	4	2	5	4	12	13	11	18	14	10	13	9	11	3	1						2							135	4.74
<290		1	1	8	6	10	6	14	12	20	27	20	16	14	11	17	13			1											197	6.92
<300	1		2	6	10	9	15	13	16	8	14	13	16	8	3	5	3	1	1	1											145	5.09
<310		1	3	8	8	9	9	6	7	7	13	7	8	3	4	1								1							95	3.34
<320		1	2	6	12	7	4	5	7	5	5	1	2	3	4	4	3			1											72	2.53
<330	1	1	3	6	5	4	13	4	3	11	1	3	8	1	3	3	1														71	2.49
<340	1	1	3	9	13	8	5	3	3	10	7	2	6	4	2			1													78	2.74
<350		2	4	14	10	10	9	2	2	10	10	3	5	5	4																90	3.16
<360		1		4	7	9	15	5	10	13	9	4	7	5	3	1	1														94	3.30
																															2846	100.00
Count	9	32	61	142	132	129	157	184	191	217	226	182	213	175	179	180	123	83	61	40	49	35	20	19	7	0	0	0	0	0	2846	
%	0.32	1.12	2.14	4.99	4.64	4.53	5.52	6.47	6.71	7.62	7.94	6.39	7.48	6.15	6.29	6.32	4.32	2.92	2.14	1.41	1.72	1.23	0.70	0.67	0.25	0.00	0.00	0.00	0.00	0.00	100.00	

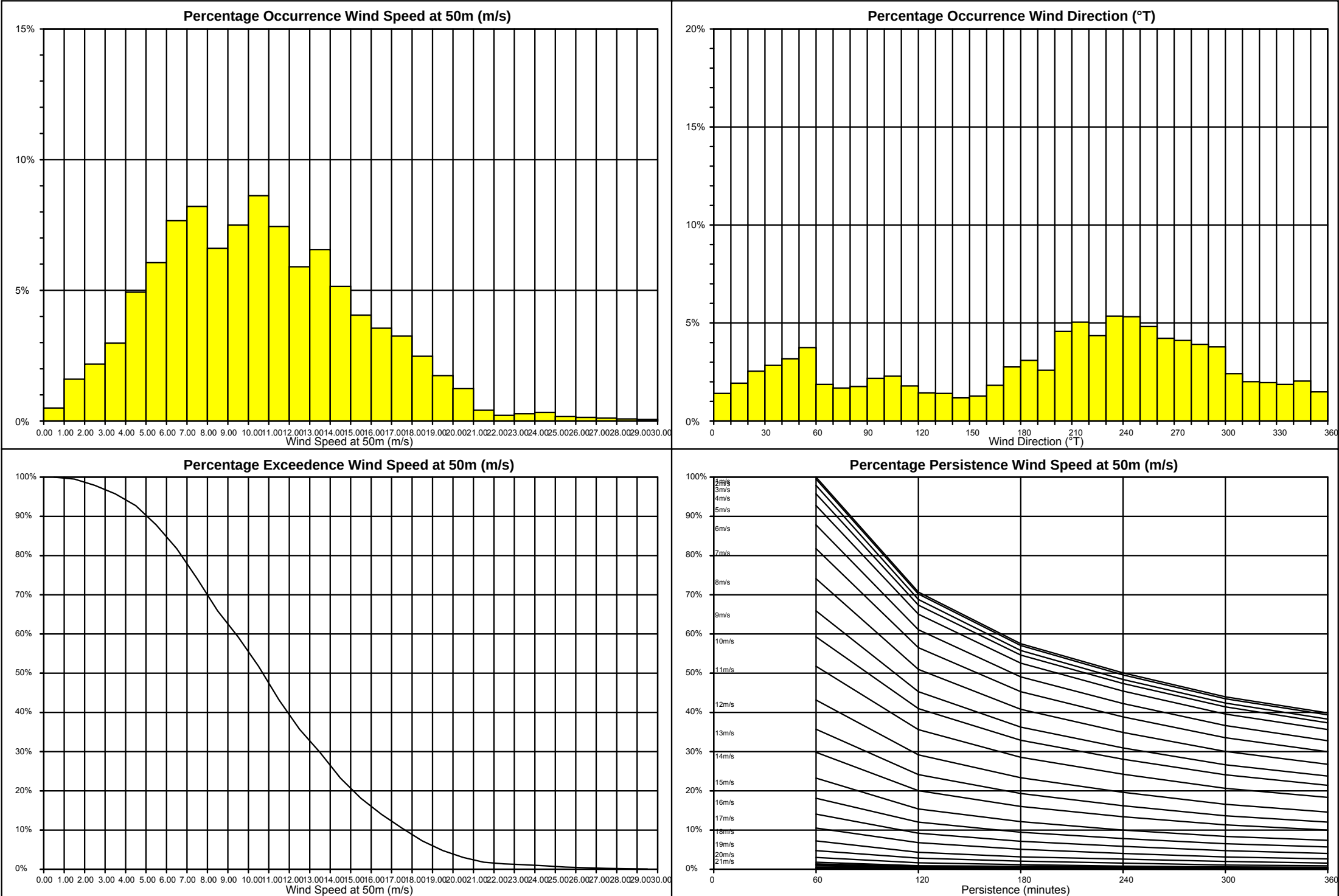
Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 2

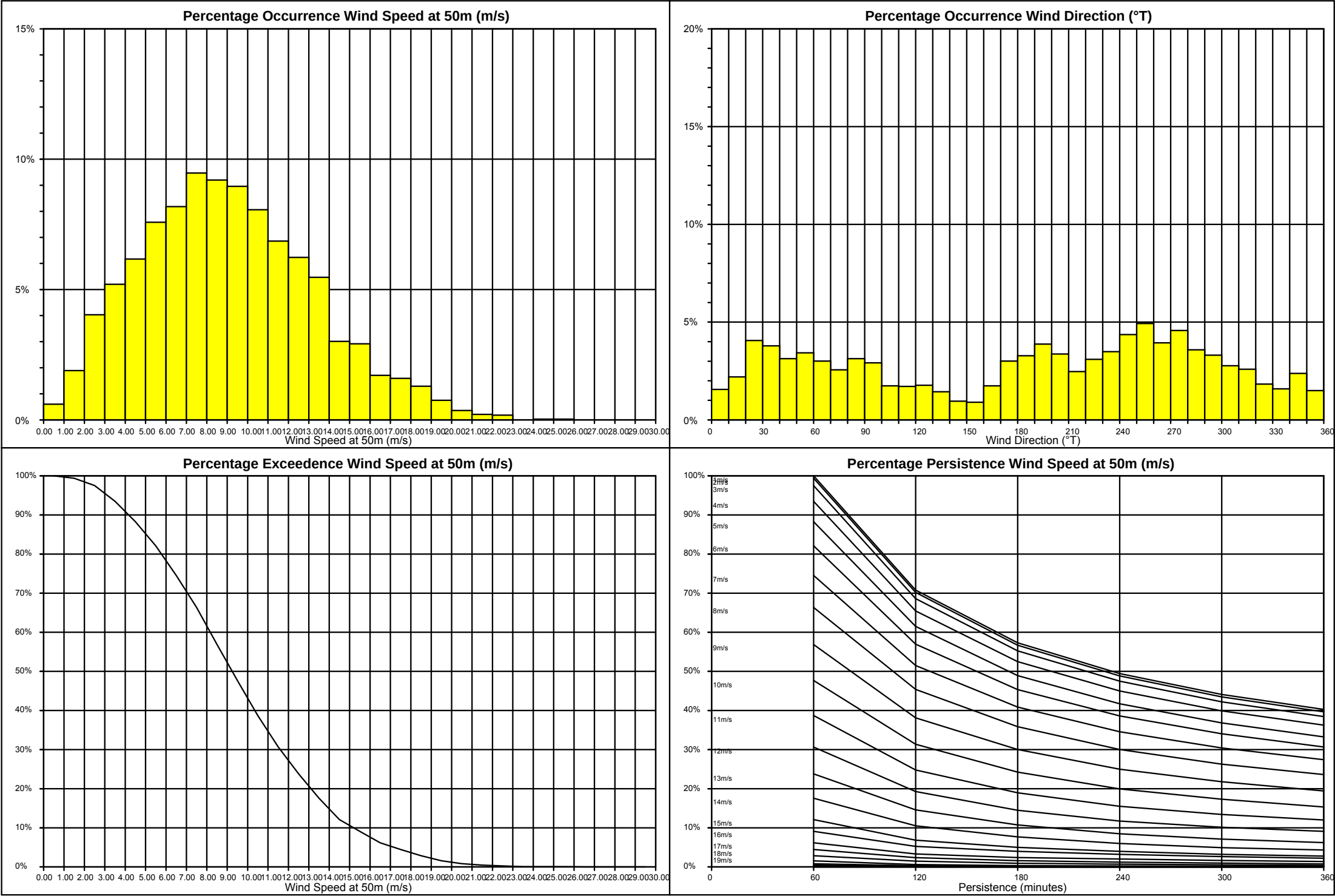
Latitude: 50°39'09"N Longitude: 000°10'14"W Data height above sea surface: 50m

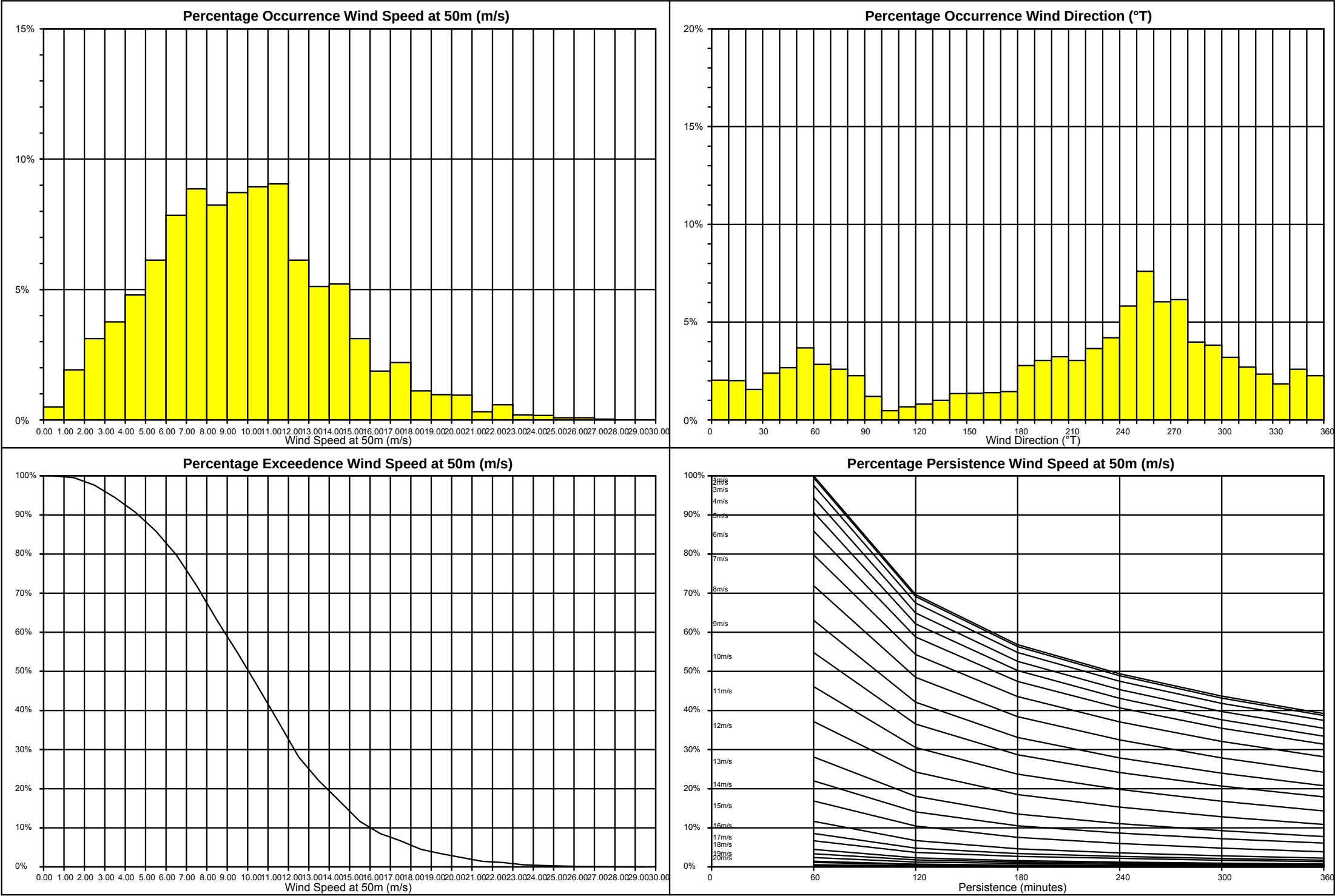
Meteorological Station / MetOfficeModel
Serial No.: Modeled

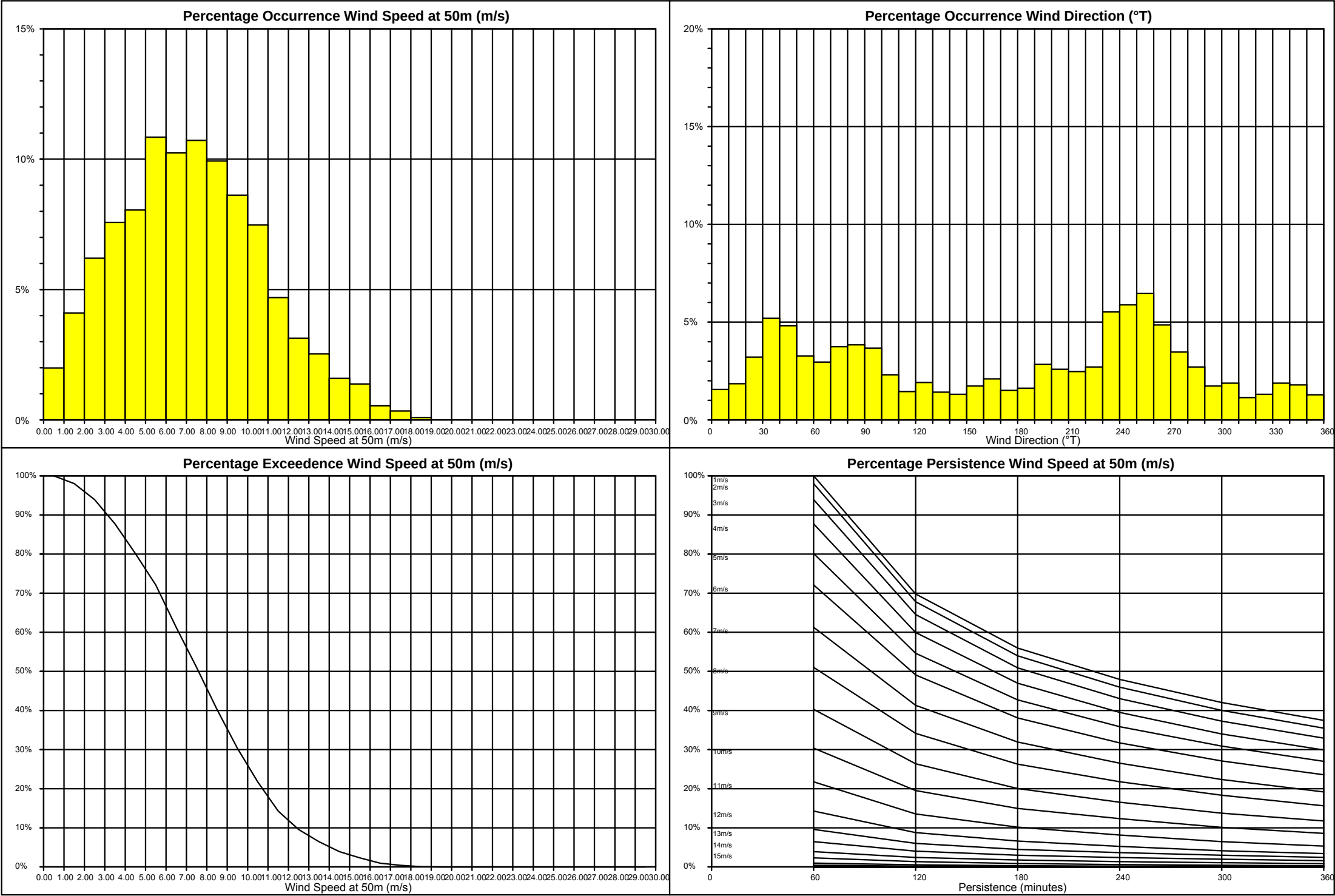
Frequency Distribution of Wind Speed at 50m (m/s) against Wind Direction (°T) for Month 12

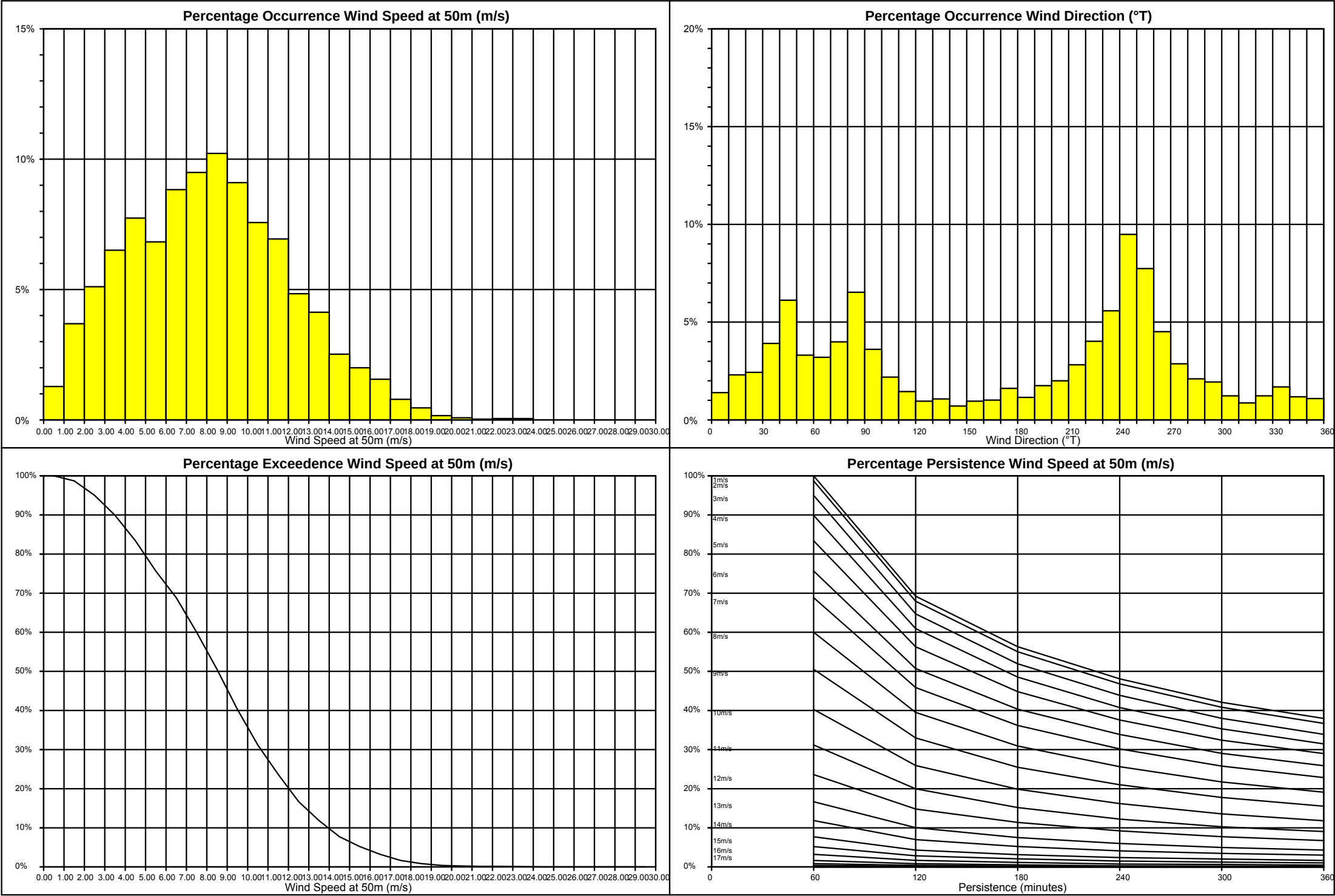
	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	<26	<27	<28	<29	<30	Count	%
<10	1		1	6	4	6	6	2	3	2	6		2	3	1																43	1.47
<20		2	6	9	19	11	8	6	2	5	6	3	3	1						1											82	2.80
<30		2	1	6	13	15	8	1	5	9	5	7	1	2		2	1	1													79	2.70
<40			3	7	7	6	10	10	4	6	11	2	2	1																	69	2.36
<50		1	3	7	5	10	10	10	5	7	9	10	6	3	5																91	3.11
<60	1	4	3	5	8	7	16	8	17	10	9	6	9	11	2																116	3.96
<70		1	2	1	4	6	10	10	14	11	1	5	13	10	2																90	3.07
<80	1	2	3	2	2	9	10	6	5	4		4	8	6	5	5	1														73	2.49
<90	1		5	3	4	3	6	9	8	6	6	3	2	3	6	3	1														69	2.36
<100			6	3	4	12	4	9	13	10	9	4	5	5	4	4	1														93	3.18
<110		1	2	5	10	7	9	7	10	15	8	5	1	1	5																86	2.94
<120	1	3	1	6	4	1	5	15	11	7	1																				55	1.88
<130			2	1	3	3	2	2	2																						15	0.51
<140		3	1	2		2			1																						9	0.31
<150		1	3	1		3							1																		9	0.31
<160			4	2	3	2	1			1	2			1											2						18	0.61
<170	2	1	4	5	4	2	1	5	1		3				1		1		1		1					4					36	1.23
<180			1	1	1	1	1	2	1	1		1	3	1	2	1	2				4	1	3	1							28	0.96
<190	2	1		3	4			7	1	1	5	5	10	5	11	7	2	1	4	2	1	2									74	2.53
<200	1	2	2	2	3	3	5	3	2	1	4	4	5	14	10	3	8	8	4	4	2	4	3	2		2		1	1		103	3.52
<210	1		2	3	3	1	5	9	6	4	3	6	5	4	12	7	7	12	4	11	5	3	2								115	3.93
<220		2		3	1	4	6	2	3	6	9	13	16	16	18	20	9	8	12	10	8	1	1	1							169	5.77
<230			1	5	3	4	3	6	6	2	6	5	13	11	15	13	6	4	2	6	8	2	1	1			1				124	4.24
<240			4	2	3	5	3	6	2	3	2	3	8	4	9	7	6	3	5	2	4	2	2	2	1						88	3.01
<250	1	1	3	5	1	5	2	8	5	6	8	9	3	11	12	14	12	12	15	2		4	8	3							150	5.12
<260	1	2	7	6	4	4	6	3	7	5	3	13	12	14	10	13	16	10	9	3	5	2	3								158	5.40
<270	1	2	3	5	5	3	1	6	10	13	15	17	19	8	6	13	9	14	4	4	2	2	3	3							168	5.74
<280	2	2	5	1	3	4	5	4	8	9	9	9	5	11	12	6	4	2		3			1	1		1					107	3.66
<290	1	1	3	2	4	4	13	11	11	8	6	6	7	10	5	4	8	2	1	1		1	1	1							111	3.79
<300		1	1	2	3	7	14	12	13	13	16	13	14	11	6				2												128	4.37
<310		3	2		5	3	5	9	8	2	3	4	1	1	1	1															48	1.64
<320			2	2	7	4	11	5	5	5	1		1	2	2			1													48	1.64
<330		1	2	6	6	5	3	9	12	5	16	2	1	2		2	3	1													76	2.60
<340		3	2	5	5	4	7	7	9	9	8	4	2	5	1	1	2	1													75	2.56
<350	1	2	3	1	1		7	7	8	5	9	7	4	2	1	1	2	1	2												64	2.19
<360		2	2	3	6	5	2	8	2	3	4	6	10	4	1	1		1													60	2.05
																															2927	100.00
Count	18	46	95	128	162	171	205	224	220	194	203	176	192	183	165	128	101	81	66	53	37	26	32	14	1	3	1	1	1	0	2927	
%	0.61	1.57	3.25	4.37	5.53	5.84	7.00	7.65	7.52	6.63	6.94	6.01	6.56	6.25	5.64	4.37	3.45	2.77	2.25	1.81	1.26	0.89	1.09	0.48	0.03	0.10	0.03	0.03	0.03	0.00	100.00	

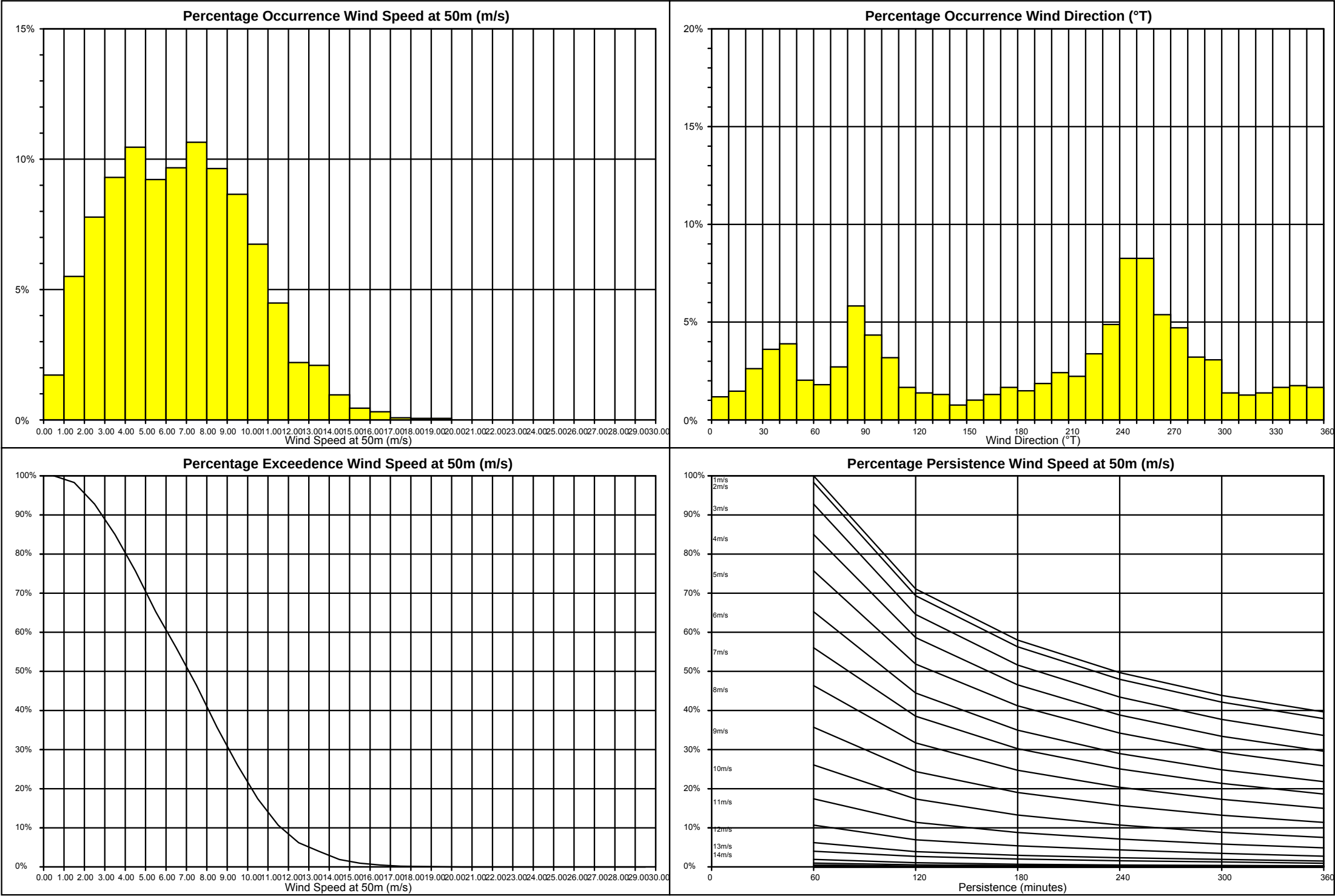


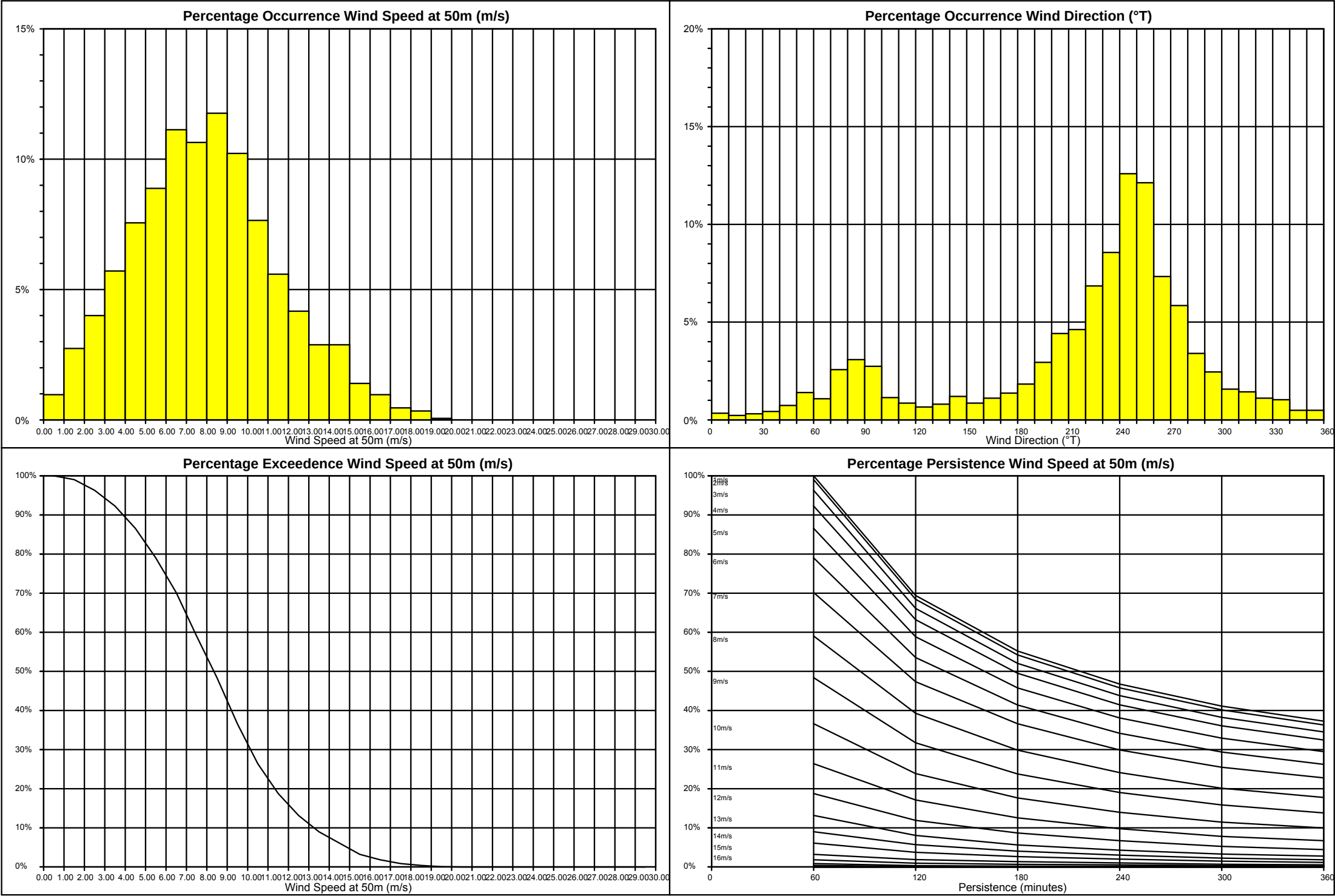


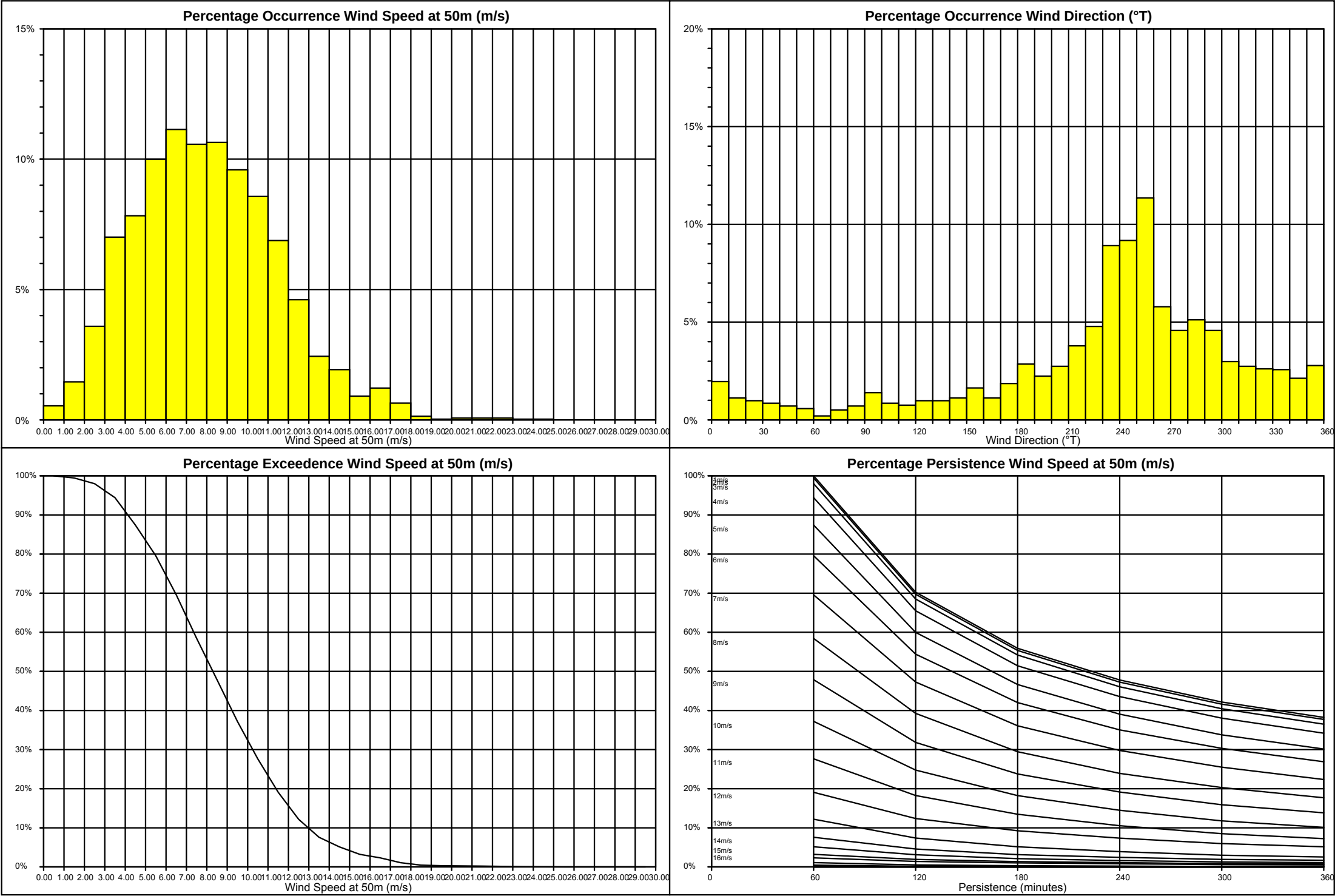


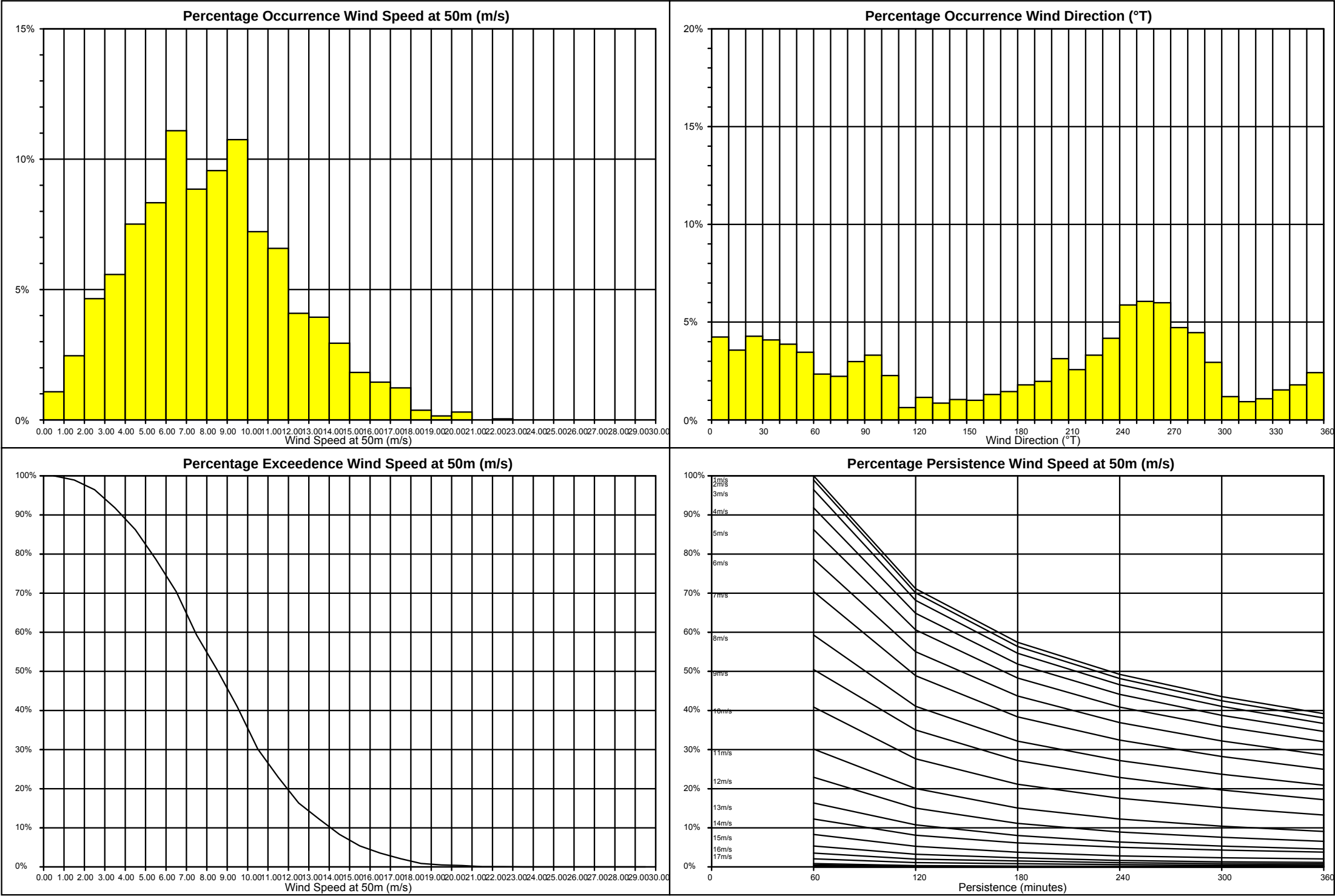


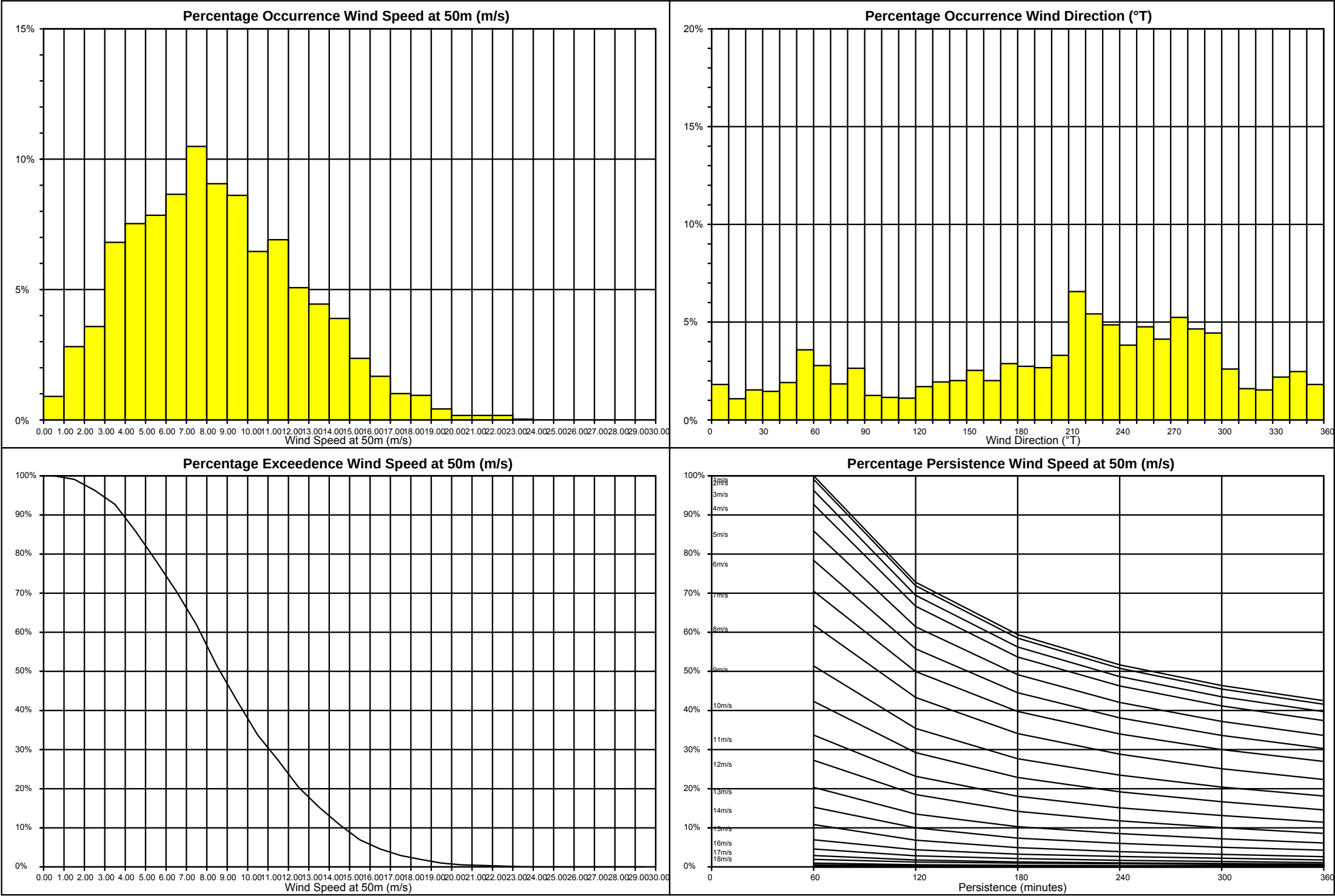


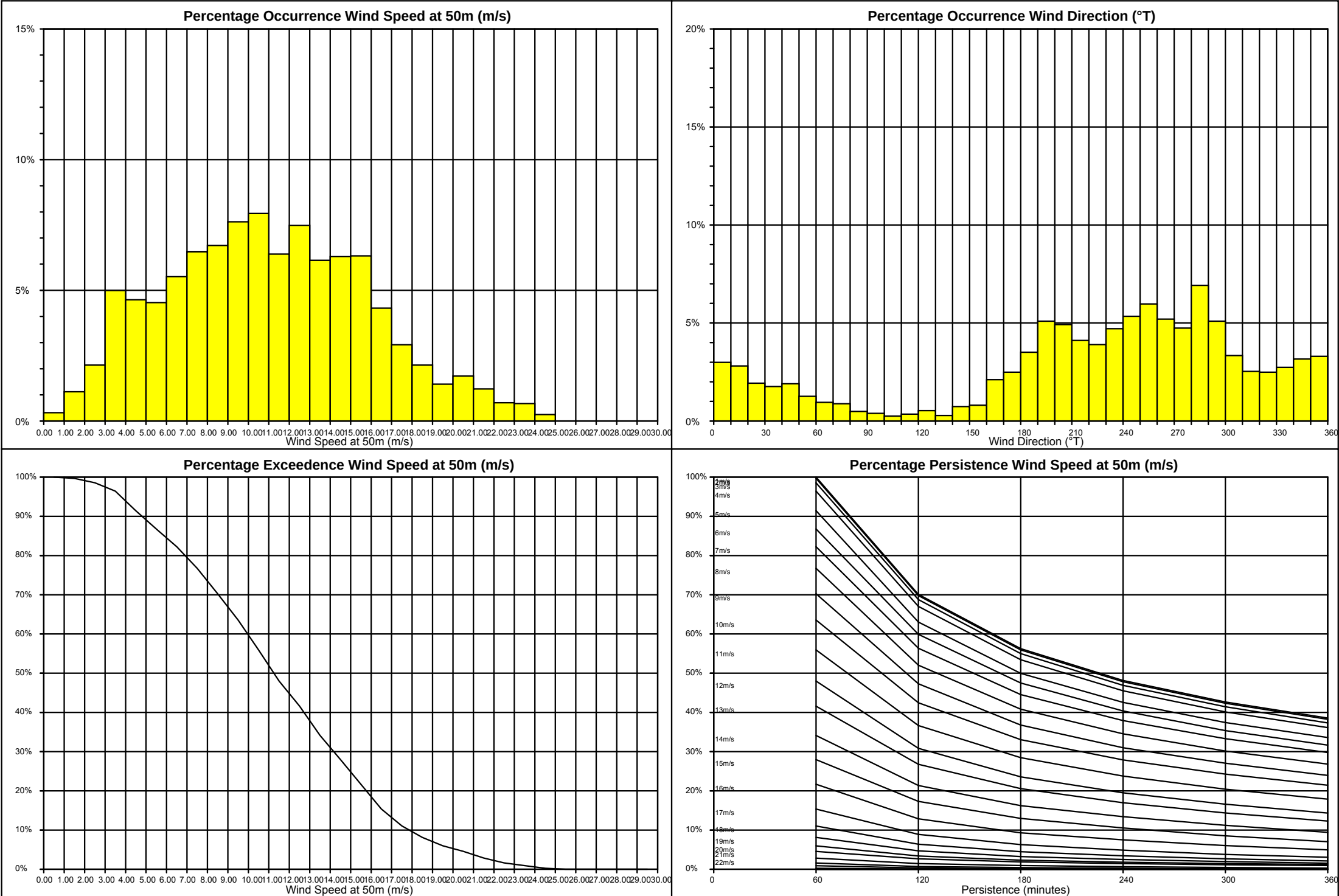


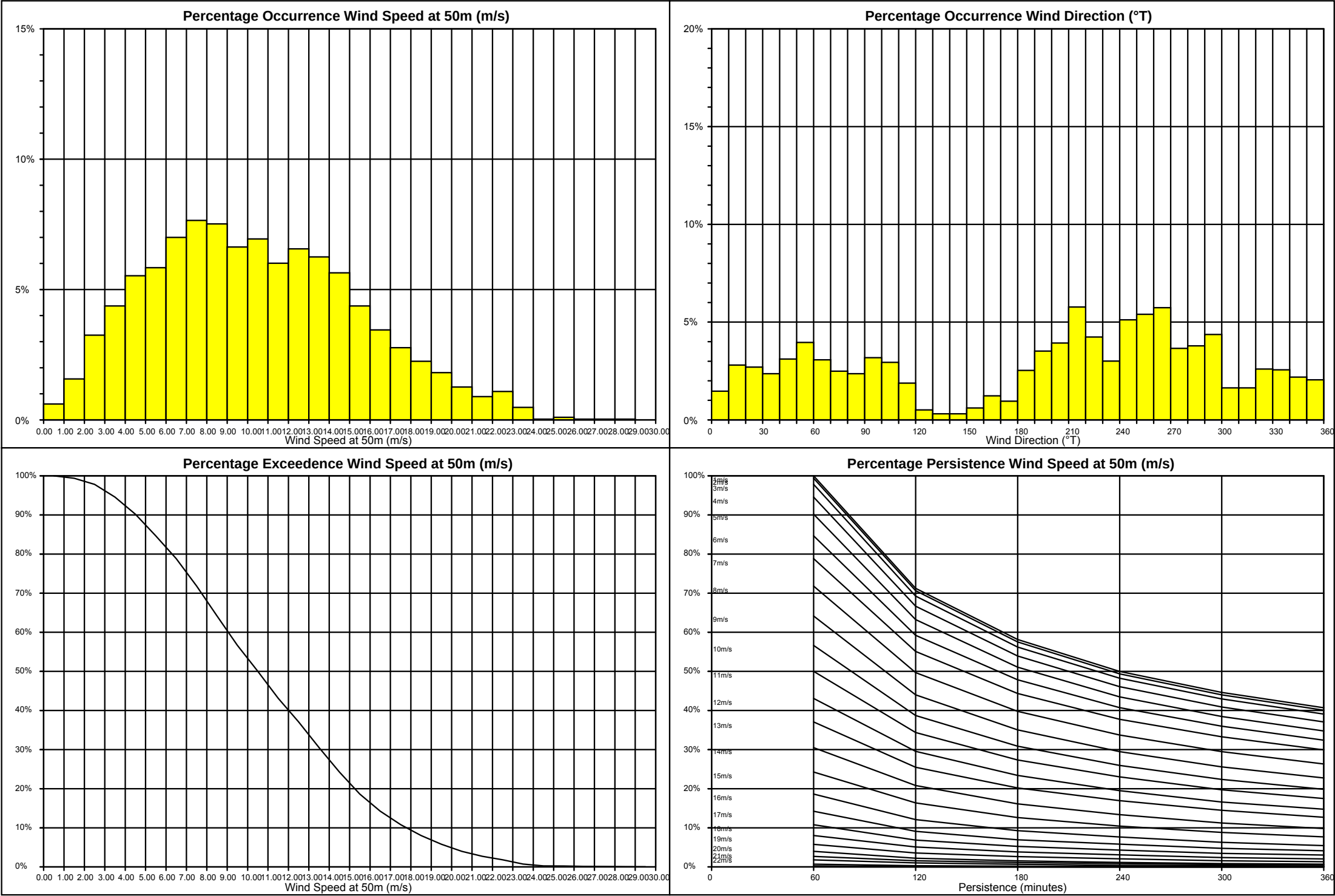








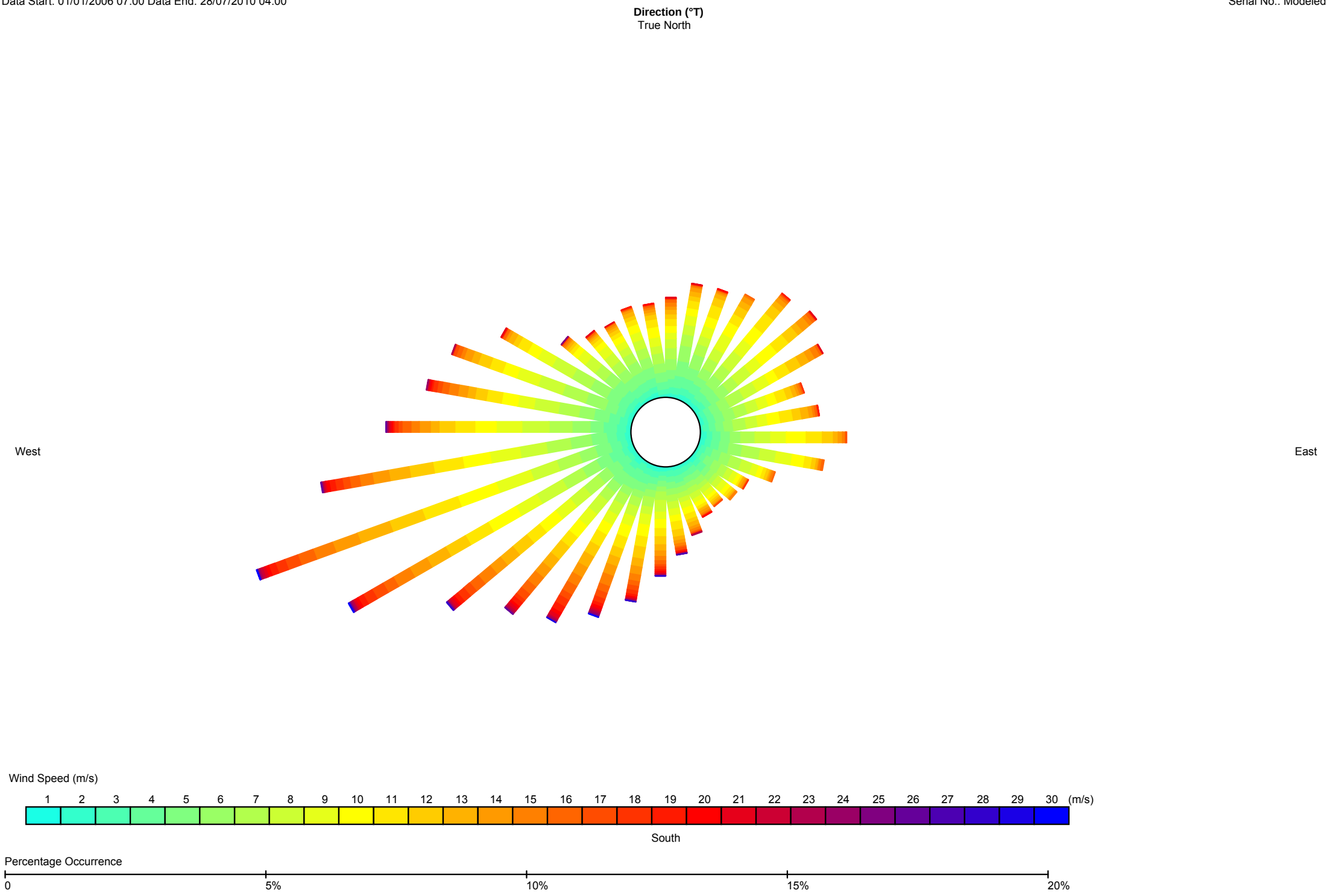


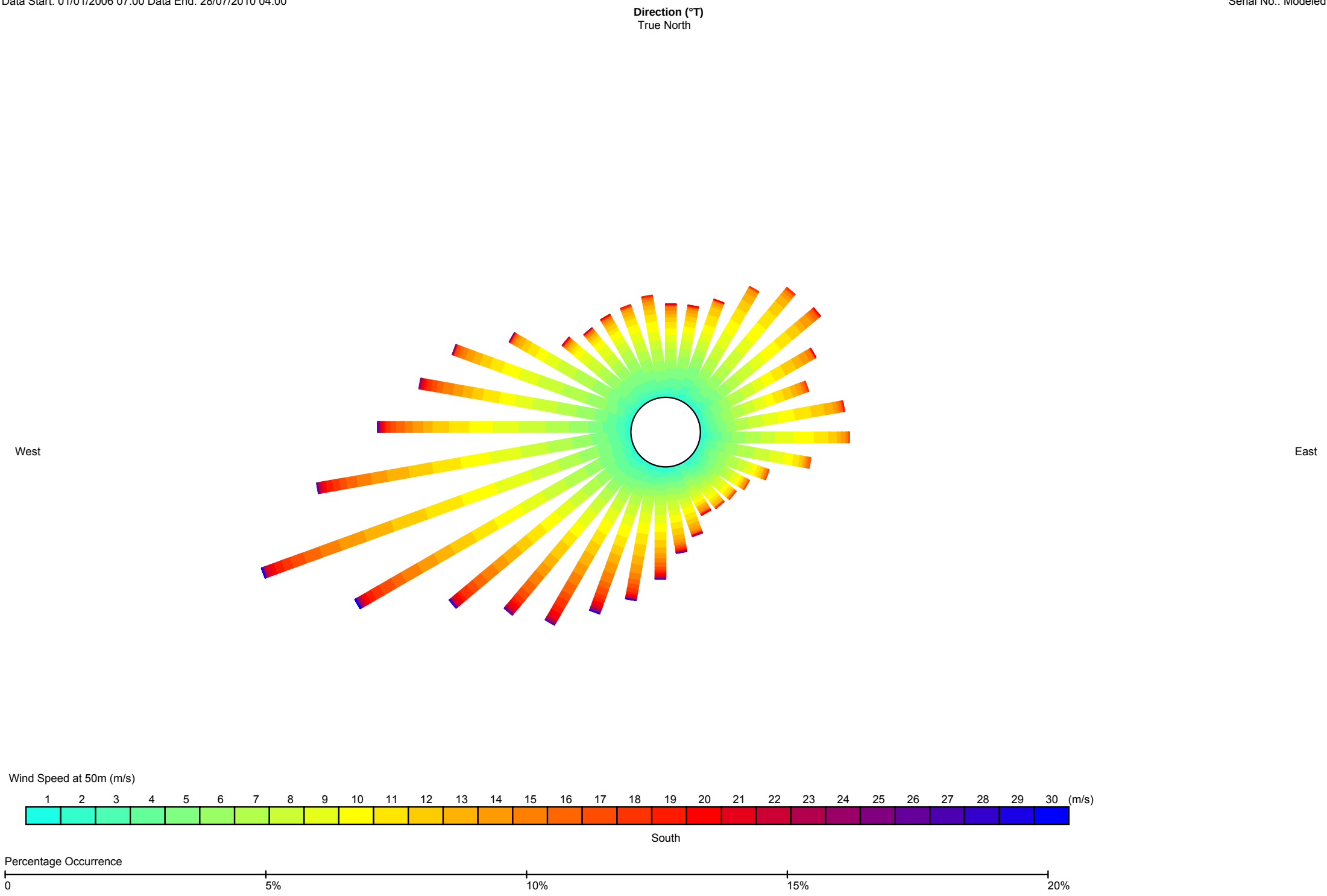


Latitude: 50°39'21"N Longitude: 000°18'43"W Data height above sea surface: 50m
Data Start: 01/01/2006 07:00 Data End: 28/07/2010 04:00

Rampion Offshore Wind Farm Metocean Survey and Assessment, Met Office Rampion 1

Meteorological Station / MetOfficeModel
Serial No.: Modeled





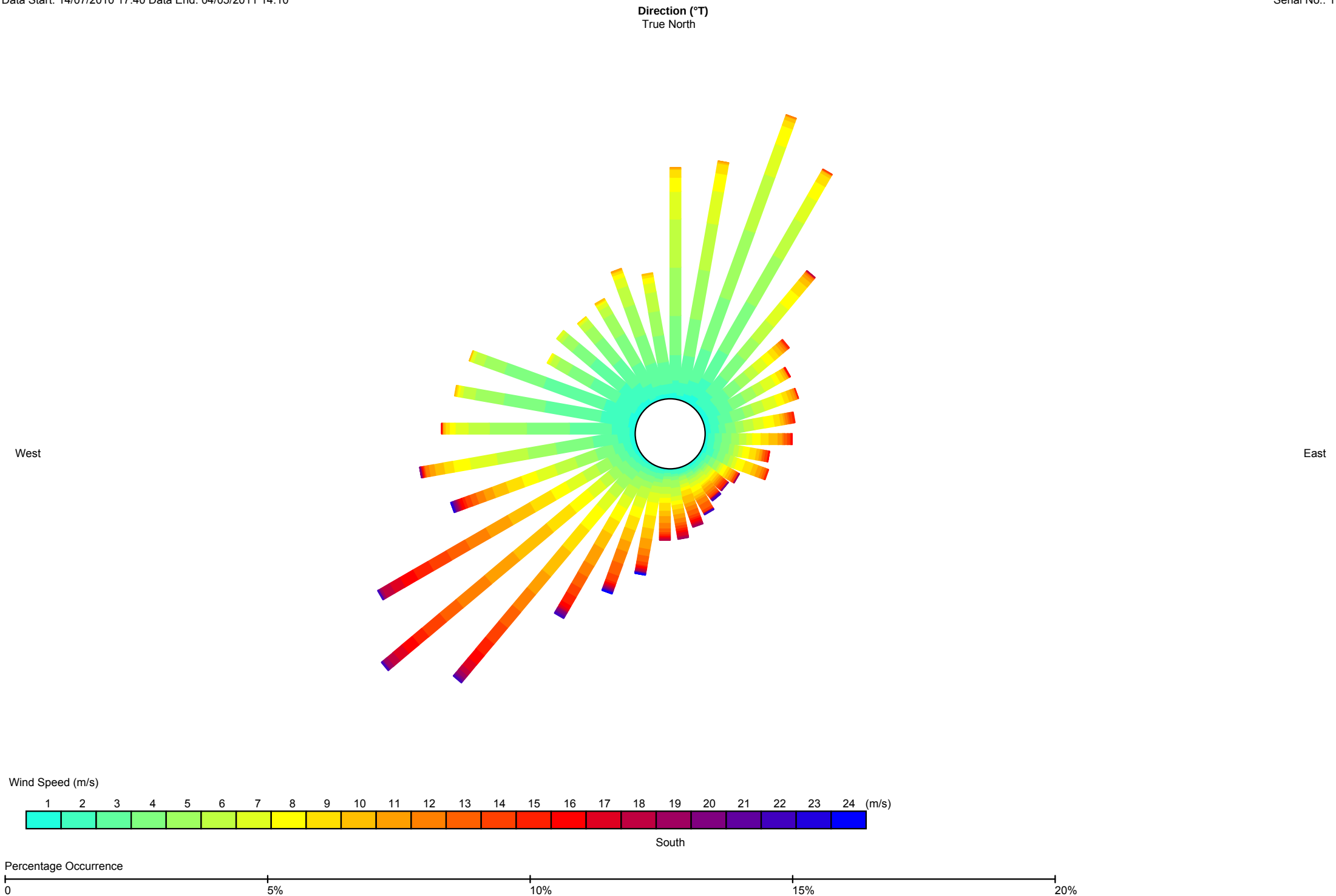
Rampion Offshore Wind Farm MetOcean Survey and Assessment, Worthing

Latitude: 50°48'25"N Longitude: 000°22'8"W Instrument Height: Approx 10m above sea level

OMC/ Channel Coastal Observatory

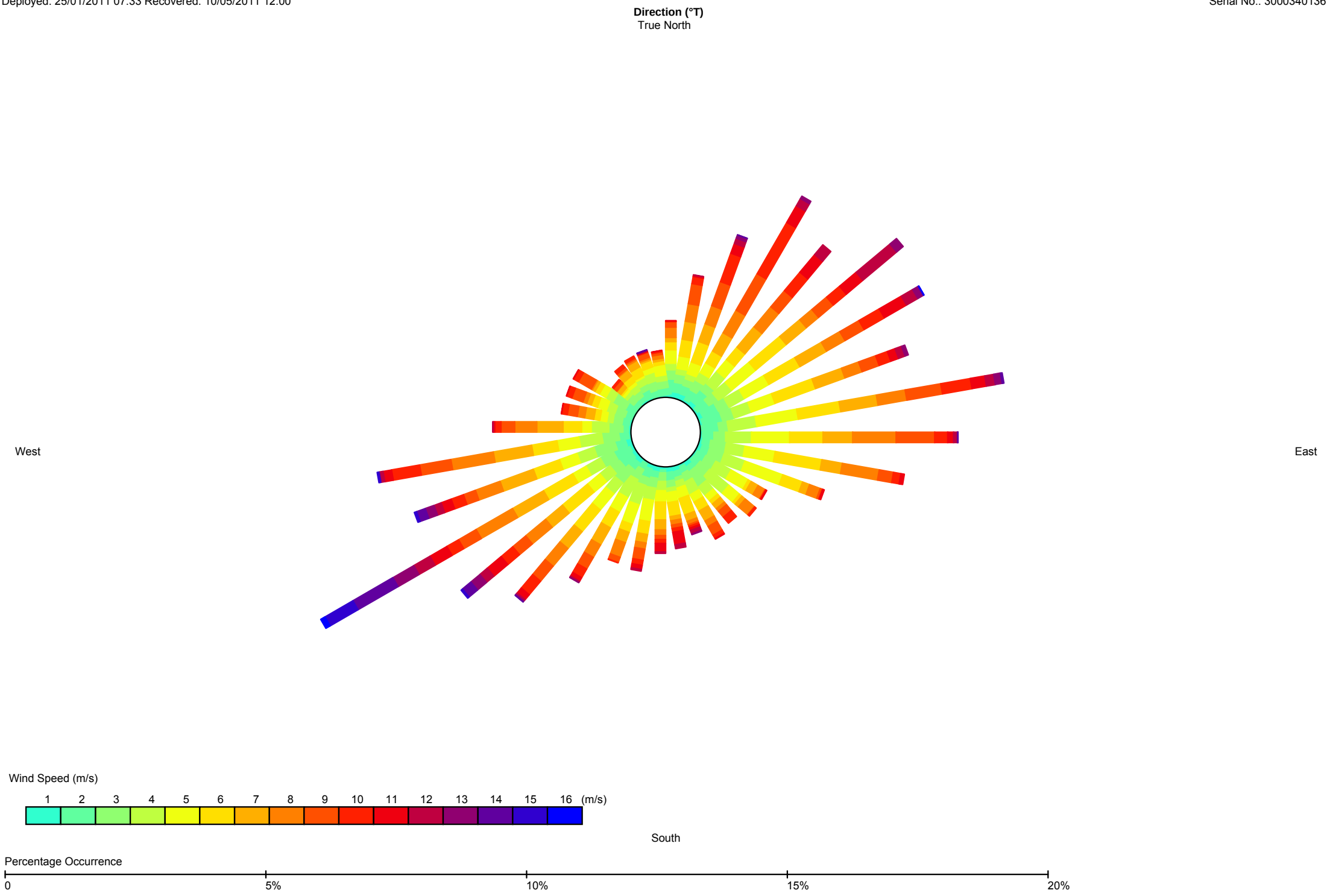
Data Start: 14/07/2010 17:40 Data End: 04/05/2011 14:10

Serial No.: 1



Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3
Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136



Rampion Offshore Wind Farm Metocean Survey and Assessment, Worthing

Latitude: 50°48'25"N Longitude: 000°22'8"W Instrument Height: Approx 10m above sea level

Data Start: 14/07/2010 17:40 Data End: 04/05/2011 14:10

OMC/ Channel Coastal Observatory

Serial No.: 1

Frequency Distribution of Wind Speed (m/s) against Wind Direction (°T)																											
	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17	<18	<19	<20	<21	<22	<23	<24	<25	Count	%
<10	72	96	210	336	412	401	257	141	62	12	1															2000	4.776
<20	53	109	263	382	542	509	321	183	78	23	2															2465	5.886
<30	74	141	260	460	509	371	173	123	54	18	6	2		1												2192	5.234
<40	54	152	232	315	257	245	198	128	98	40	15	5	7	2												1748	4.174
<50	52	105	123	171	127	112	145	104	75	39	33	21	8	5	1			1								1122	2.679
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<70	52	88	104	120	91	71	115	54	43	26	22	8														794	1.896
<80	47	64	79	78	55	95	100	75	43	26	17	16	1	5	5											706	1.686
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<100	32	47	51	85	40	43	47	69	63	50	23	6	15	19	2											592	1.414
<110	29	52	44	70	45	39	28	58	76	39	29	16	19	11	5	1										561	1.340
<120	47	58	44	48	42	20	27	43	36	31	26	19	14	9	5											469	1.120
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<140	30	34	25	19	23	37	23	11	18	21	18	18	12	16	13	1			3	4	4	1				331	0.790
<150	19	34	16	26	13	26	39	36	21	22	28	41	40	16	5	1			2	4	5	2				396	0.946
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<180	12	29	24	33	68	71	35	35	41	48	45	29	22	16	18	15	12	11	1							565	1.349
<190	25	20	36	18	49	53	50	73	99	53	63	63	39	29	13	13	12	7				4	1			720	1.719
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<210	17	43	45	58	60	81	89	94	104	108	105	122	85	66	54	23	10	6	6	9	11	10	3			1209	2.887
<220	26	34	36	57	99	99	110	150	171	169	175	135	137	138	96	39	23	16	16	28	18	5				1777	4.243
<230	28	36	74	90	94	79	130	211	250	342	259	236	180	158	98	117	108	62	46	8	2	1				2609	6.230
<240	30	52	65	83	85	110	146	163	217	280	239	264	191	197	141	144	105	88	24	10	3	7				2644	6.313
<250	46	55	70	109	142	137	166	127	162	161	151	126	104	105	74	60	41	20	6	6	5	6				1879	4.487
<260	46	78	125	210	183	205	173	121	94	89	55	40	15	13	16	13	10	13	13	12	1	7	1			1533	3.660
<270	59	108	287	330	293	240	191	101	61	37	22	14	3		1	2										1749	4.176
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<290	78	230	554	328	175	79	22	7	5																	1478	3.529
<300	51	198	338	298	168	82	27	8	1	1																1172	2.798
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<350	42	65	192	259	241	179	91	44	17	9	1															1140	2.722
<360	45	92	179	226	254	234	122	61	49	8																1270	3.032
																										41880	100
Count	1475	3081	5059	5675	5222	4305	3257	2594	2262	1955	1543	1355	1088	949	615	473	370	263	132	93	56	46	9	3	0	41880	
%	3.522	7.357	12.080	13.551	12.469	10.279	7.777	6.194	5.401	4.668	3.684	3.235	2.598	2.266	1.468	1.129	0.883	0.628	0.315	0.222	0.134	0.110	0.021	0.007	0.000	100	

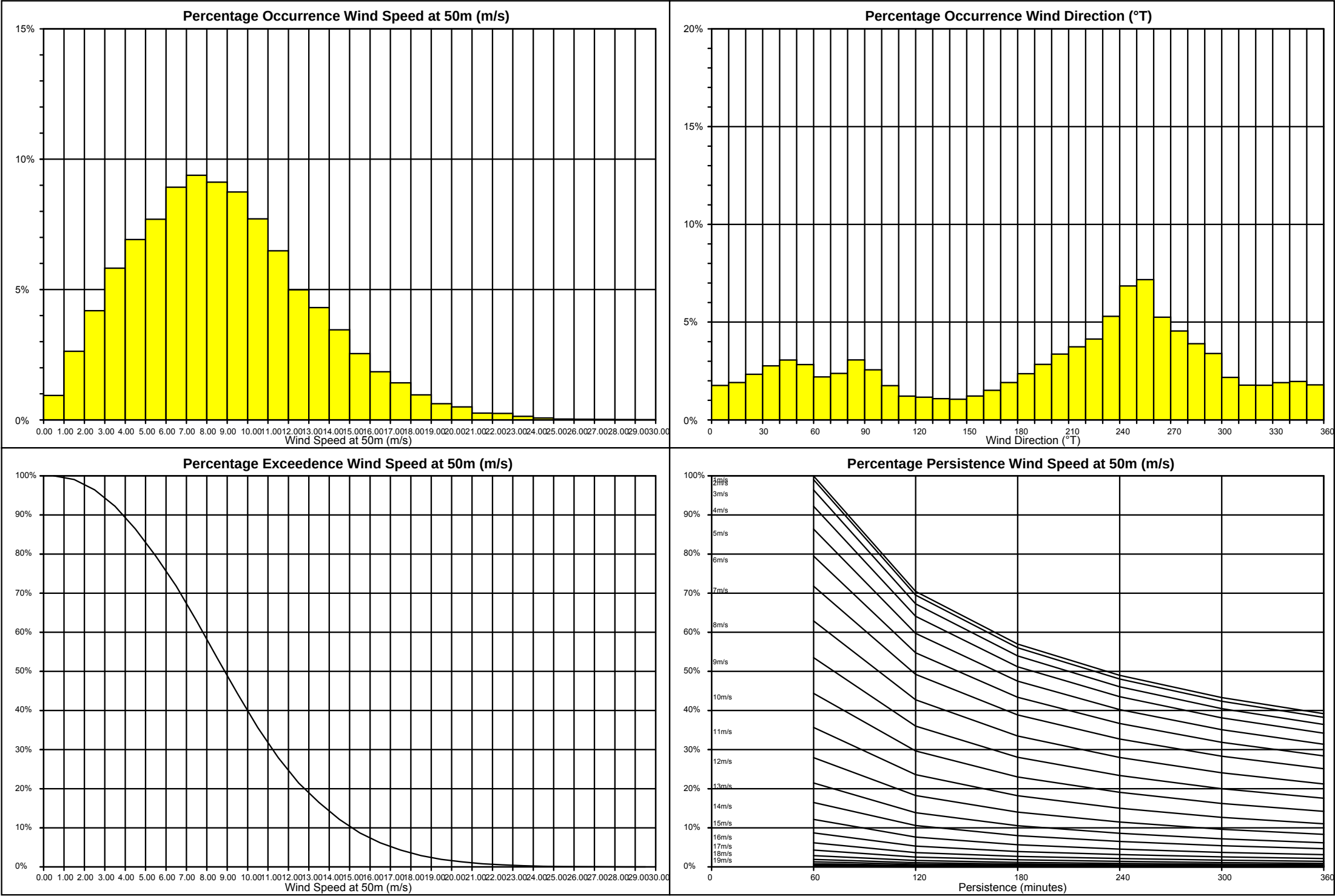
Frequency Table

Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
 Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Meteorological Station / PlanetOcean-DualChannel
 Serial No.: 3000340136

	Frequency Distribution of Wind Speed (m/s) against Wind Direction (°T)																		Count	%
	<1	<2	<3	<4	<5	<6	<7	<8	<9	<10	<11	<12	<13	<14	<15	<16	<17			
<10	13	36	29	19	38	38	25	42	48	7	1							296	1.955	
<20	18	27	18	15	36	56	63	58	59	53	13	2						418	2.761	
<30	12	29	29	17	33	49	48	60	98	132	52	28	16	1				604	3.989	
<40	15	40	30	41	35	50	67	79	97	141	60	21	2					678	4.478	
<50	11	40	27	47	67	69	85	54	67	41	64	90	16					678	4.478	
<60	11	44	33	43	100	115	88	68	51	64	82	87	17	2		1		806	5.324	
<70	11	56	34	55	66	112	93	51	49	46	37	30	18					658	4.346	
<80	3	56	30	70	90	138	104	73	71	65	30	19	8	2				759	5.013	
<90	5	37	29	72	120	102	84	99	142	60	31	23	15	4				823	5.436	
<100	6	29	41	72	109	124	78	124	64	41	15	1						704	4.650	
<110	14	25	45	58	104	104	42	78	20	3	7							500	3.303	
<120	7	20	47	61	90	27	20	17	2	3	3							297	1.962	
<130	4	28	32	60	44	10	20	32	2	1								233	1.539	
<140	10	16	42	52	30	8	13	18	5	14								208	1.374	
<150	11	23	30	44	16	19	21	19	36	23	2							244	1.612	
<160	14	11	25	22	37	42	30	11	13	3	2	3	1					214	1.413	
<170	13	28	13	18	31	50	16	10	6	14	16	9	1					225	1.486	
<180	11	14	22	22	23	30	17	15	10	4	43	13						224	1.480	
<190	13	12	32	24	50	63	37	21	24	22	13	5						316	2.087	
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<230	14	34	47	43	46	89	62	89	53	40	44	15	6	5				587	3.877	
<240	12	46	28	42	53	104	86	84	51	40	49	33	73	127	66	7		901	5.951	
<250	12	40	58	42	43	81	99	96	52	47	50	52	45	46	34	7		804	5.310	
<260	12	28	51	69	62	83	107	107	65	60	23	12	9	18	10			716	4.729	
<270	7	21	49	60	50	60	112	96	67	49	15	6						592	3.910	
<280	6	24	36	29	19	43	46	40	33	13	2							291	1.922	
<290	6	14	31	28	25	14	17	23	25	17	1							201	1.328	
<300	3	29	33	21	26	25	7	2	44	19	1							210	1.387	
<310		25	32	21	16	7	16	5	30	6								158	1.044	
<320	3	15	22	11	10	4	11	3	5	11								95	0.627	
<330	8	26	19	21	7	35	27	4	4	7								158	1.044	
<340	4	19	26	18	10	16	9	5	9	4	1	1	1					123	0.812	
<350	5	18	18	29	24	18	8	11	11	2	2	1		1				148	0.978	
<360	8	30	24	13	33	15	10	13	8	3								157	1.037	
																		15140	100	
Count	338	1013	1154	1421	1717	1926	1696	1626	1424	1119	686	459	230	206	110	15	0	15140		
%	2.232	6.691	7.622	9.386	11.341	12.721	11.202	10.740	9.406	7.391	4.531	3.032	1.519	1.361	0.727	0.099	0.000	100		



Appendix E

Data Presentation

Wave Spectra

Figure/Table	Location/Data Source	Data Type	Parameters
Figure E001 – E005	Location 1	Wave 2D Spectral Colour Contour Time Series	Spectral Energy against period and Coming Direction against Period
Figure E006 – E009	Location 2	Wave 2D Spectral Colour Contour Time Series	Spectral Energy against period and Coming Direction against Period
Figure E010 – E023	Location 3	Wave 2D Spectral Colour Contour Time Series	Spectral Energy against period and Coming Direction against Period
Table E001 – E013	Location 3	Multivariate Frequency Distribution	Wind Direction against Wave Direction for differing Significant Wave Heights and Peak Periods

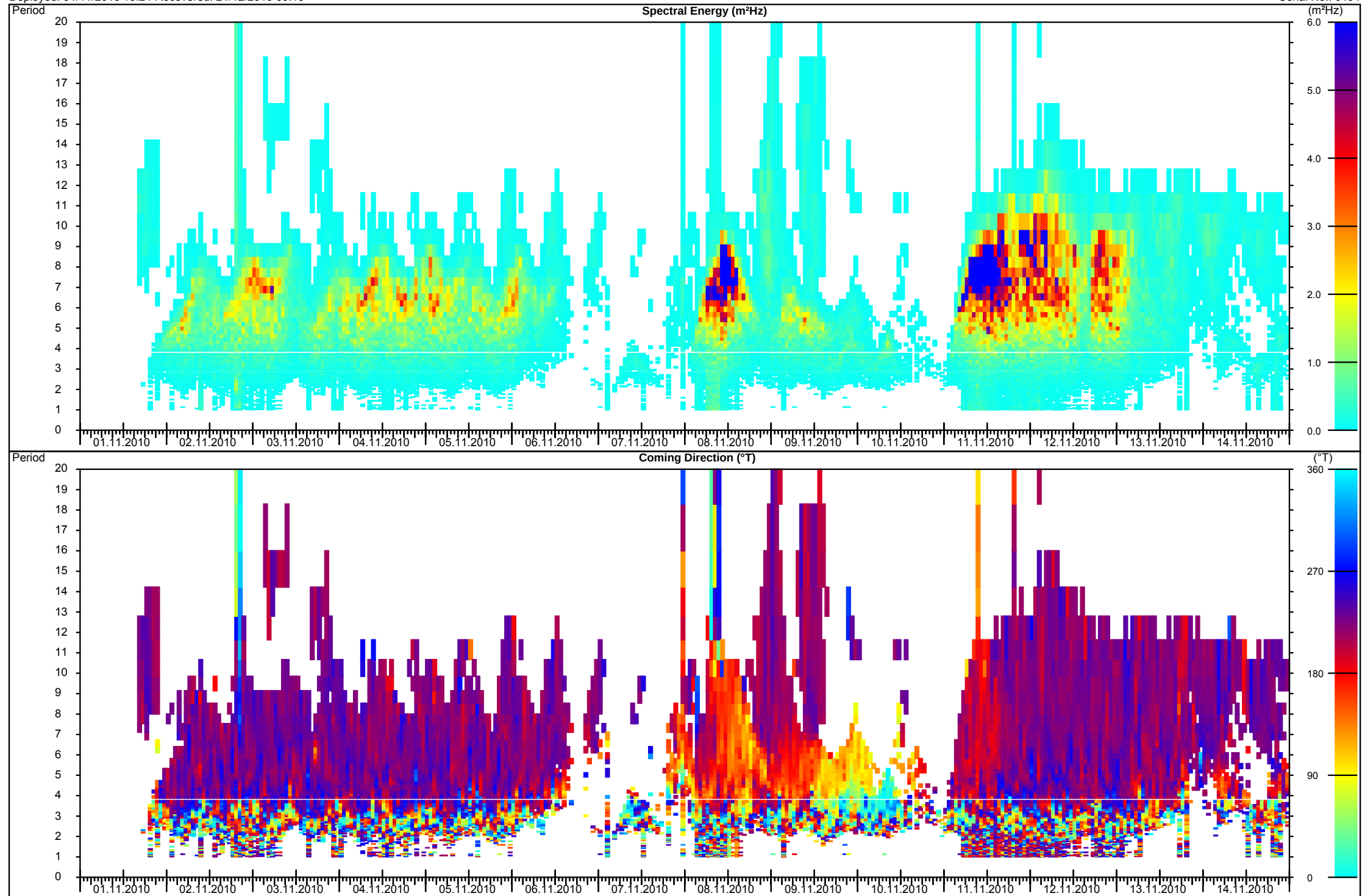
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10

Serial No.: 0194



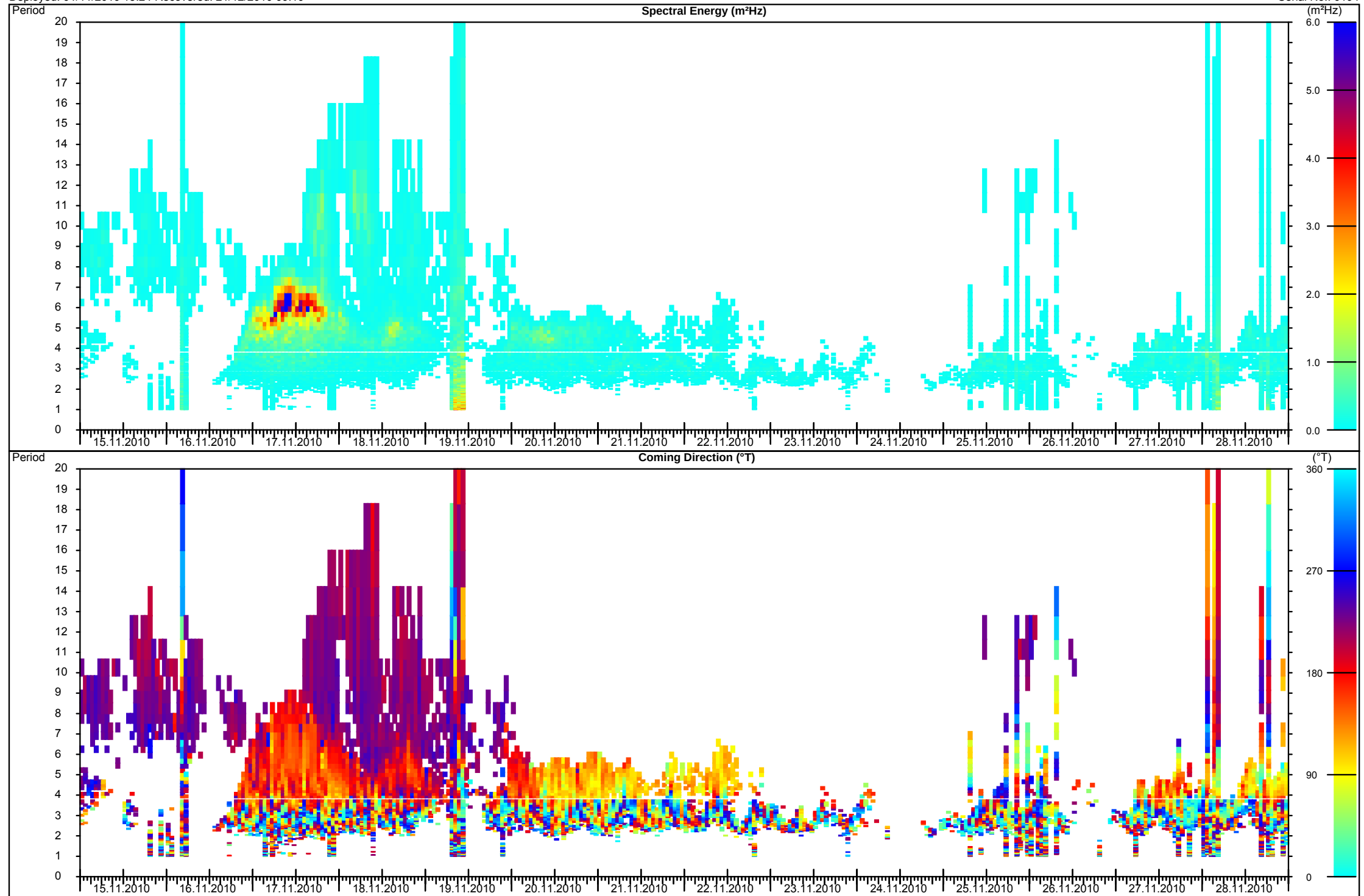
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Current Meter / AWAC

Serial No.: 0194

Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10



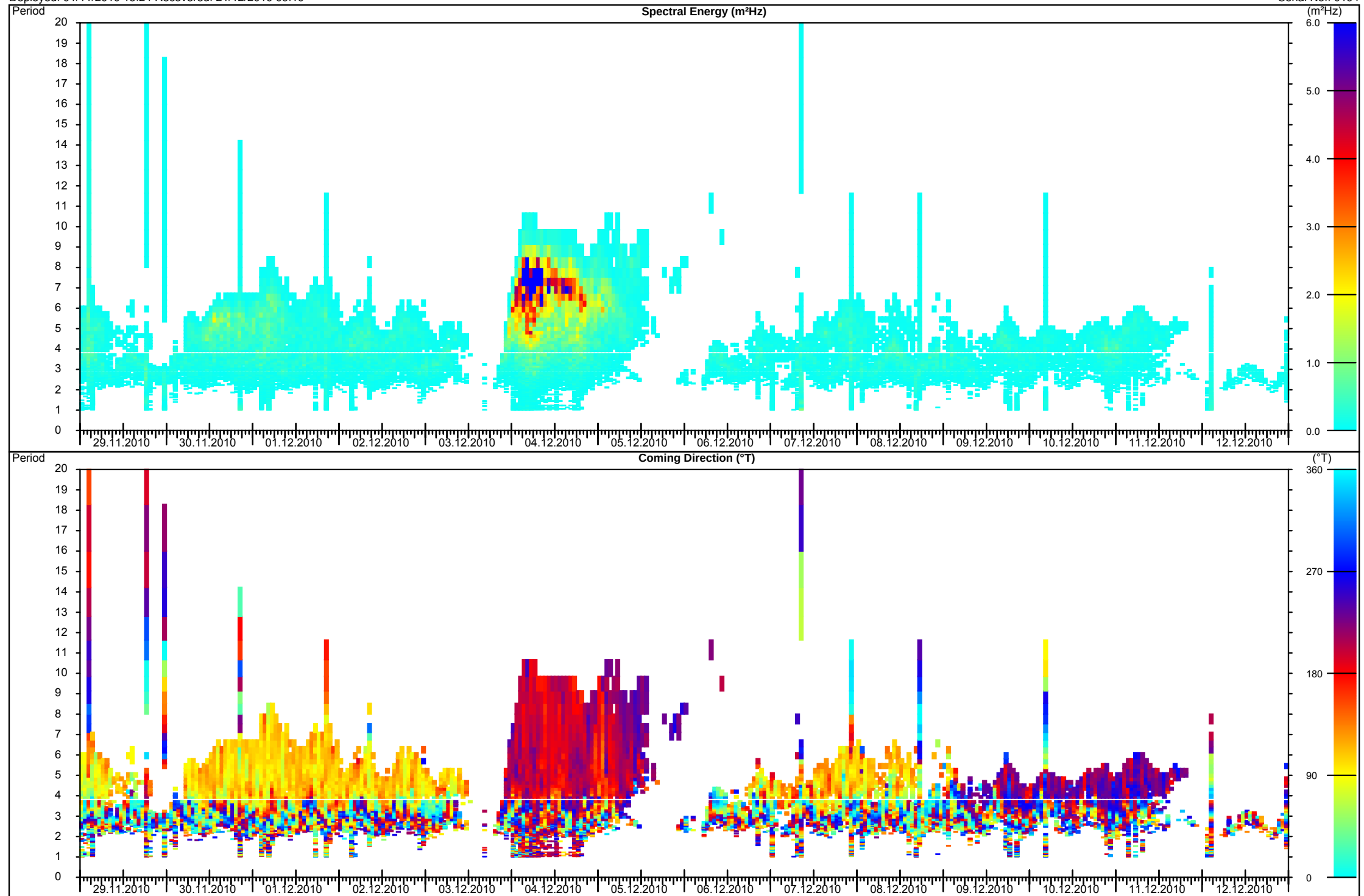
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10

Serial No.: 0194



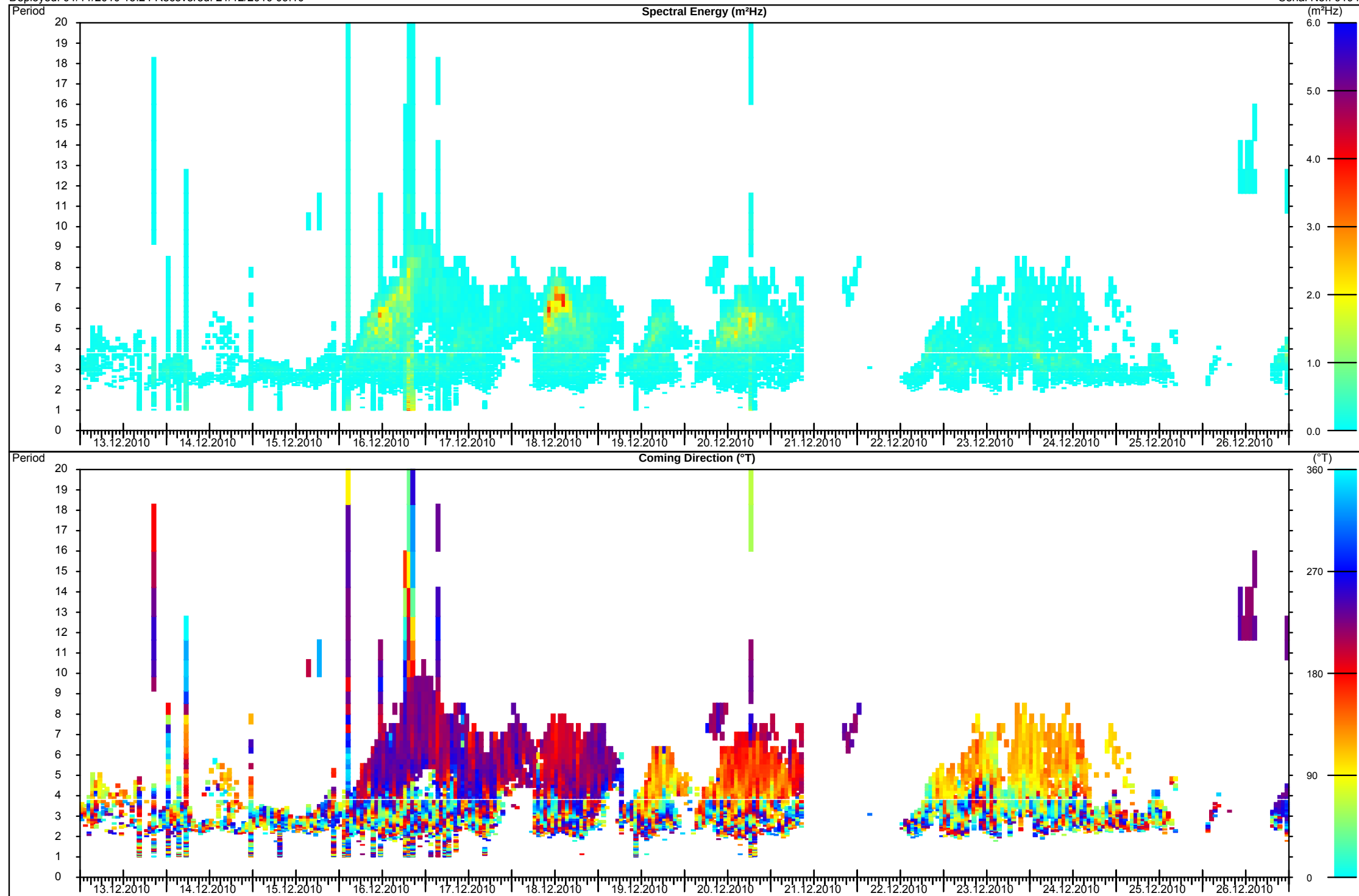
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10

Current Meter / AWAC

Serial No.: 0194



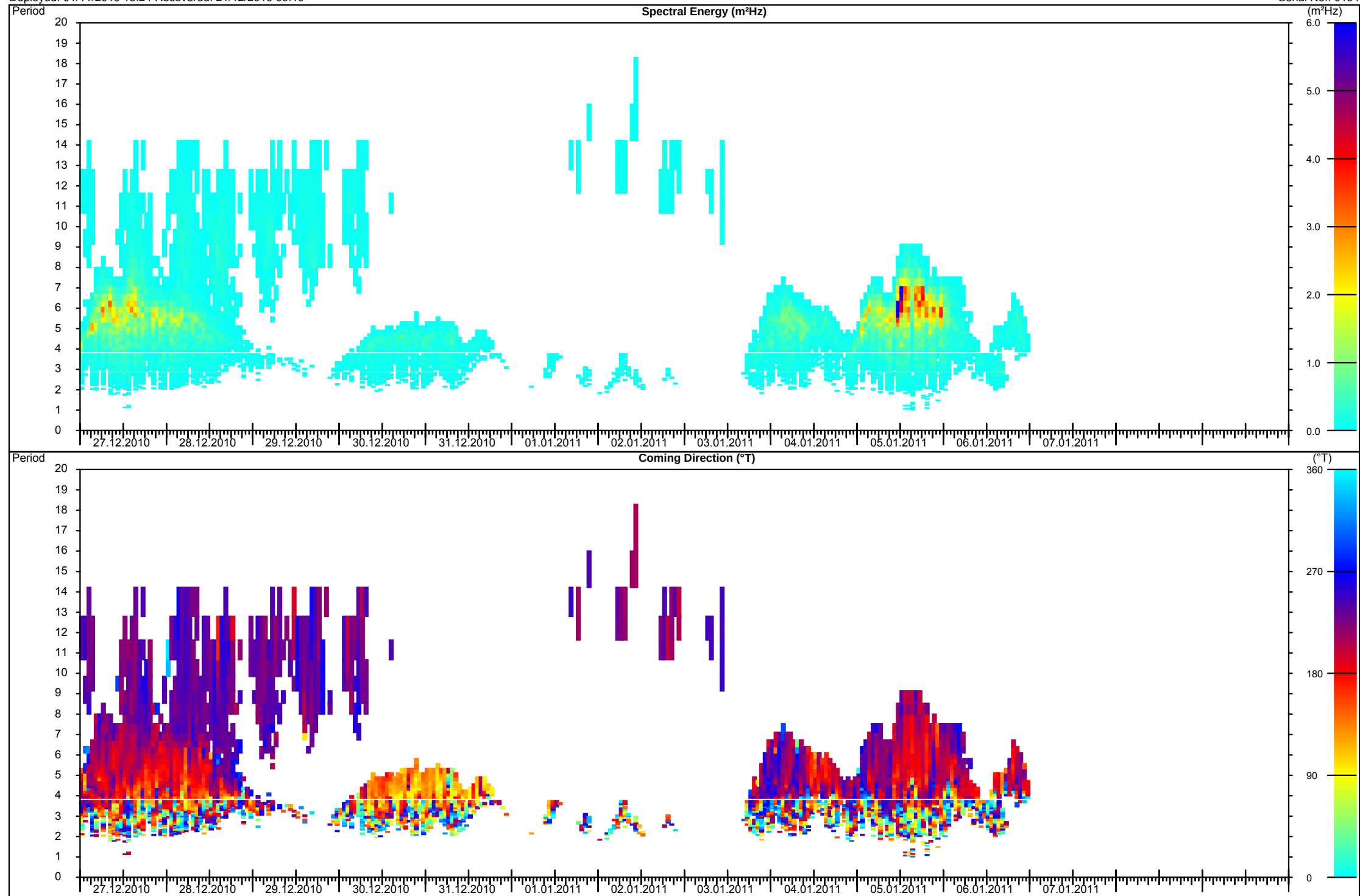
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 1, Deployments 1 - 2

Latitude: 50°40'48"N Longitude: 000°19'36"W Site depth to LAT: 25m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 15:24 Recovered: 21/12/2010 09:10

Serial No.: 0194



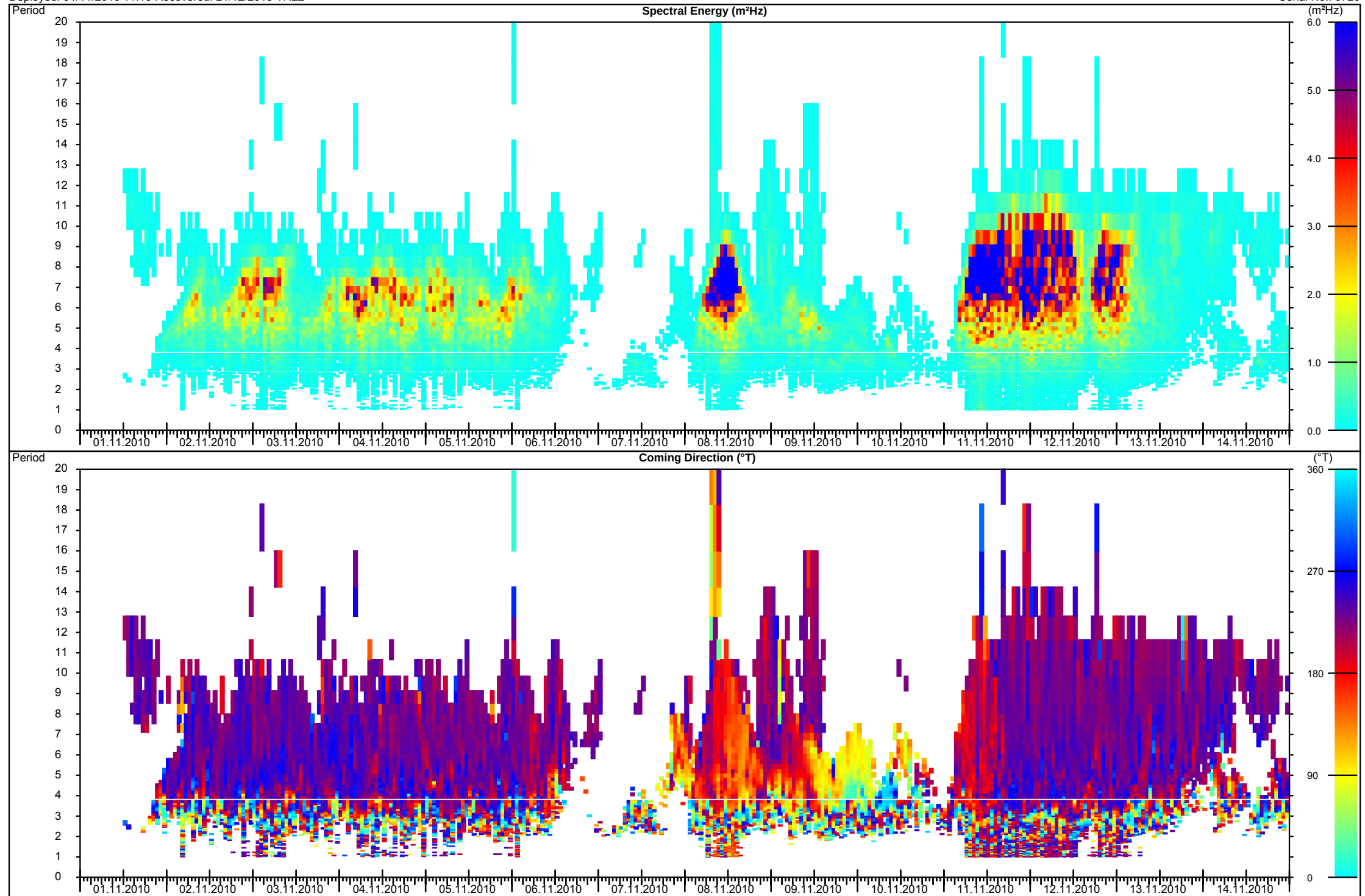
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

Serial No.: 0720



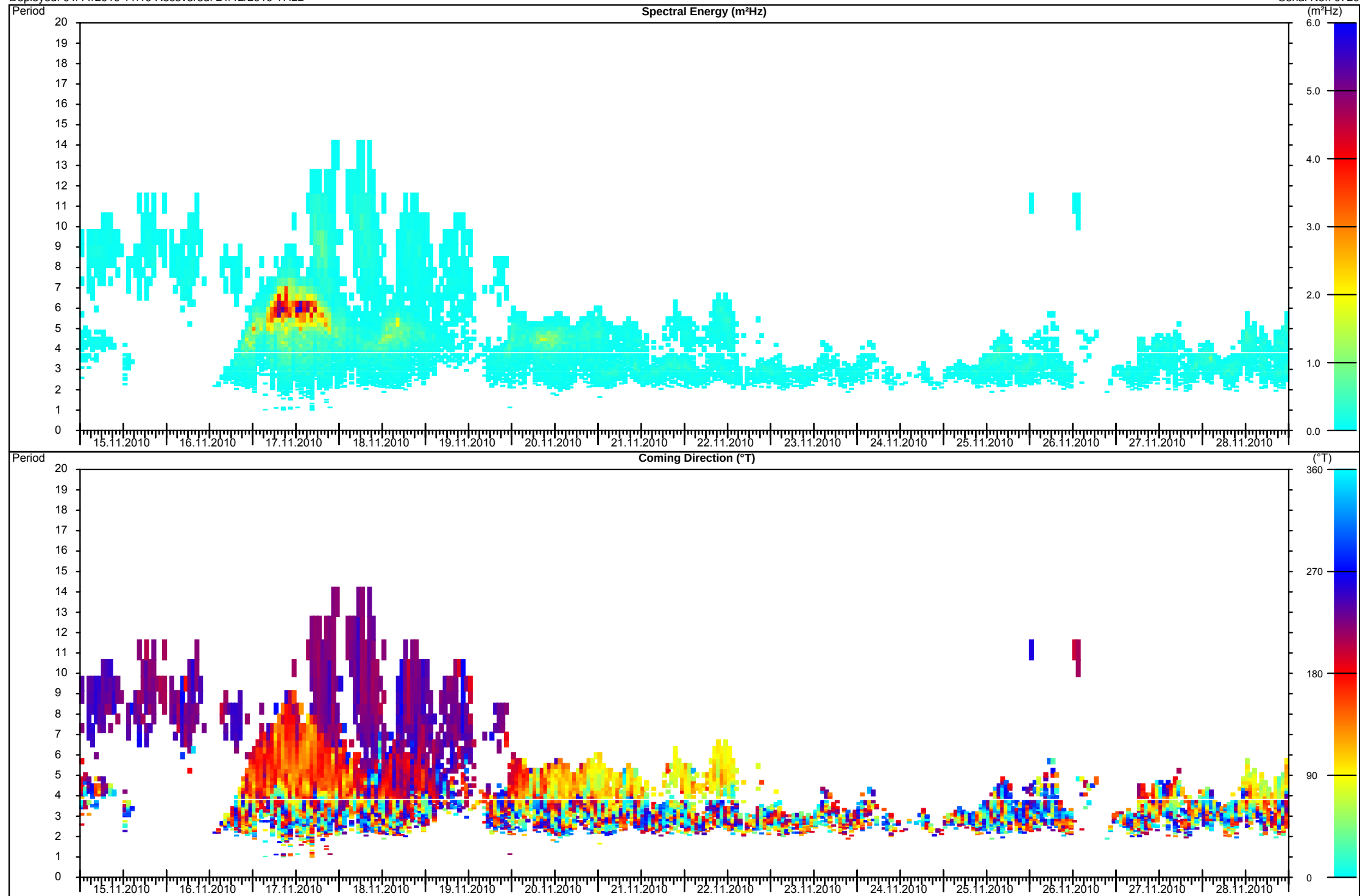
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

Serial No.: 0720



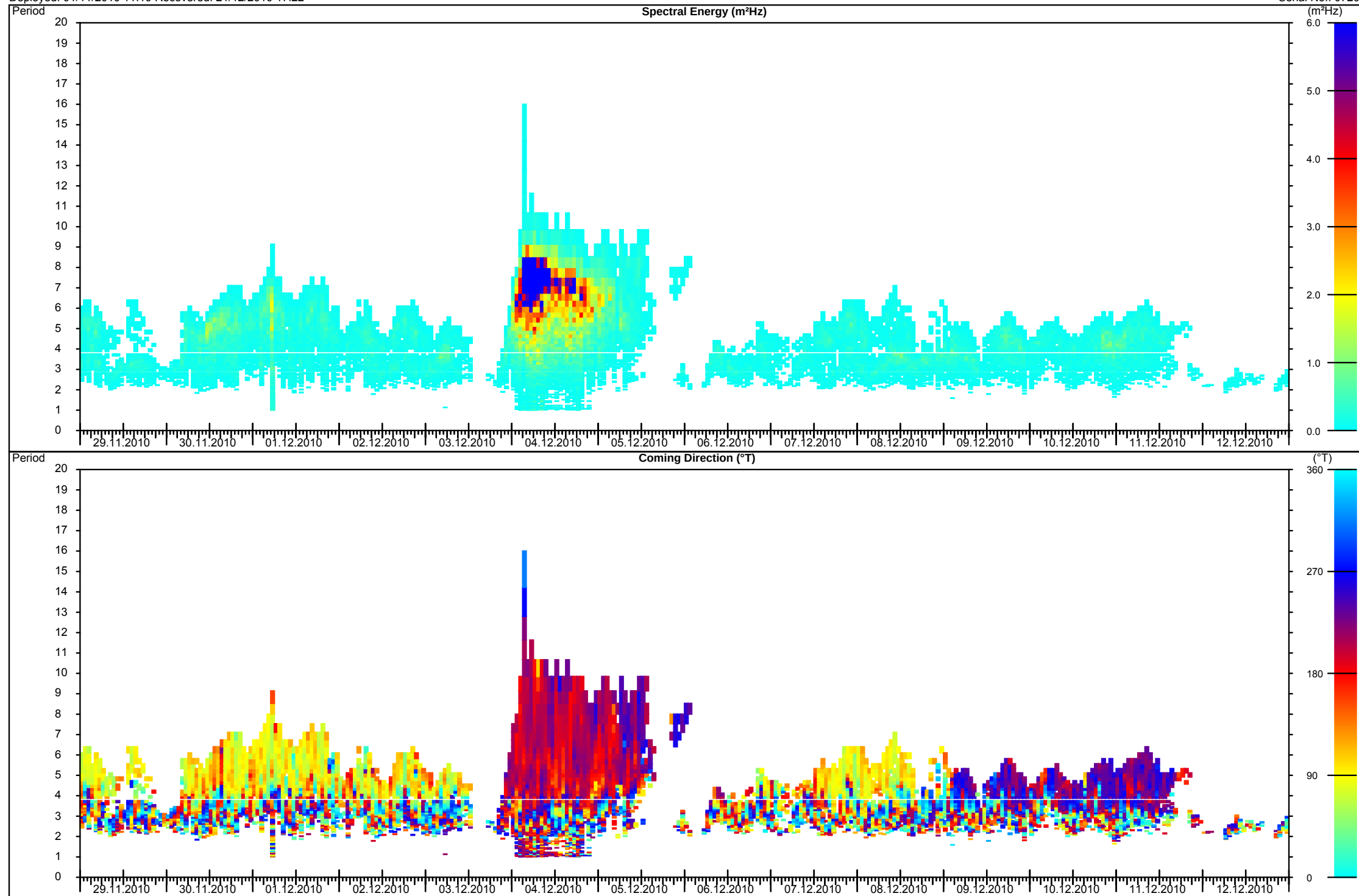
Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

Serial No.: 0720



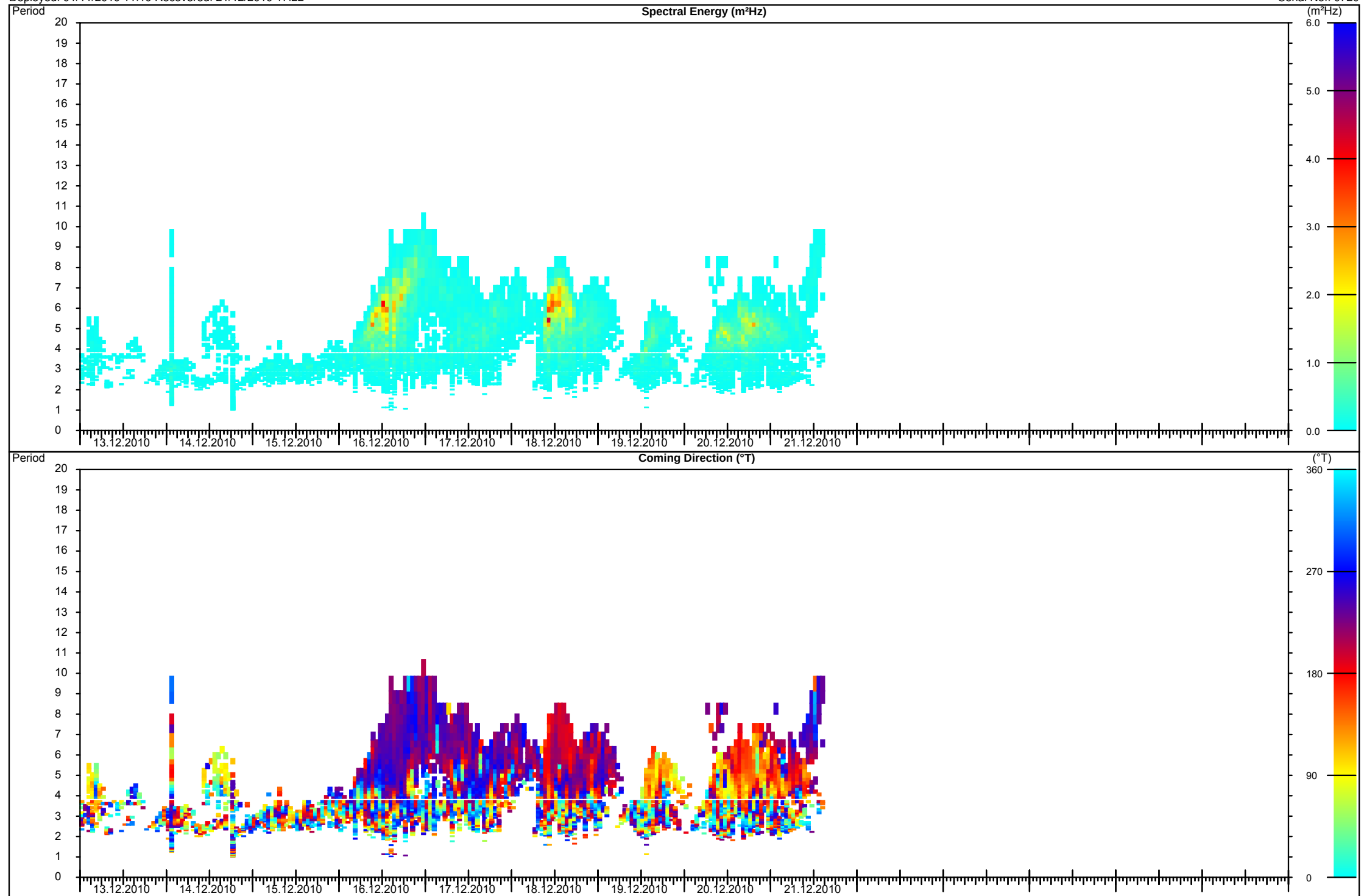
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 2, Deployment 1

Latitude: 50°41'00"N Longitude: 000°08'56"W Site depth to LAT: 26m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 11:10 Recovered: 21/12/2010 17:22

Serial No.: 0720



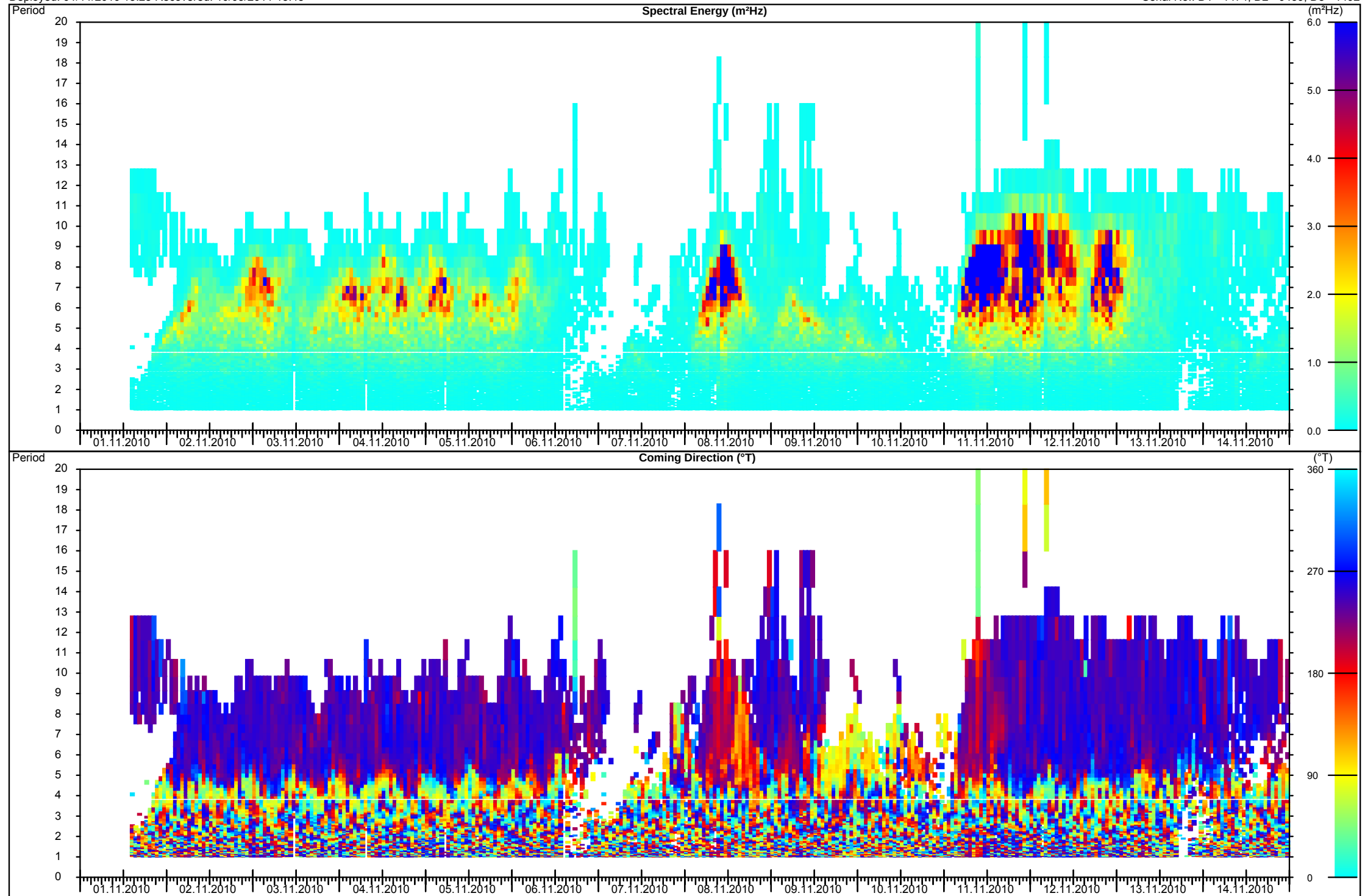
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Current Meter / AWAC

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



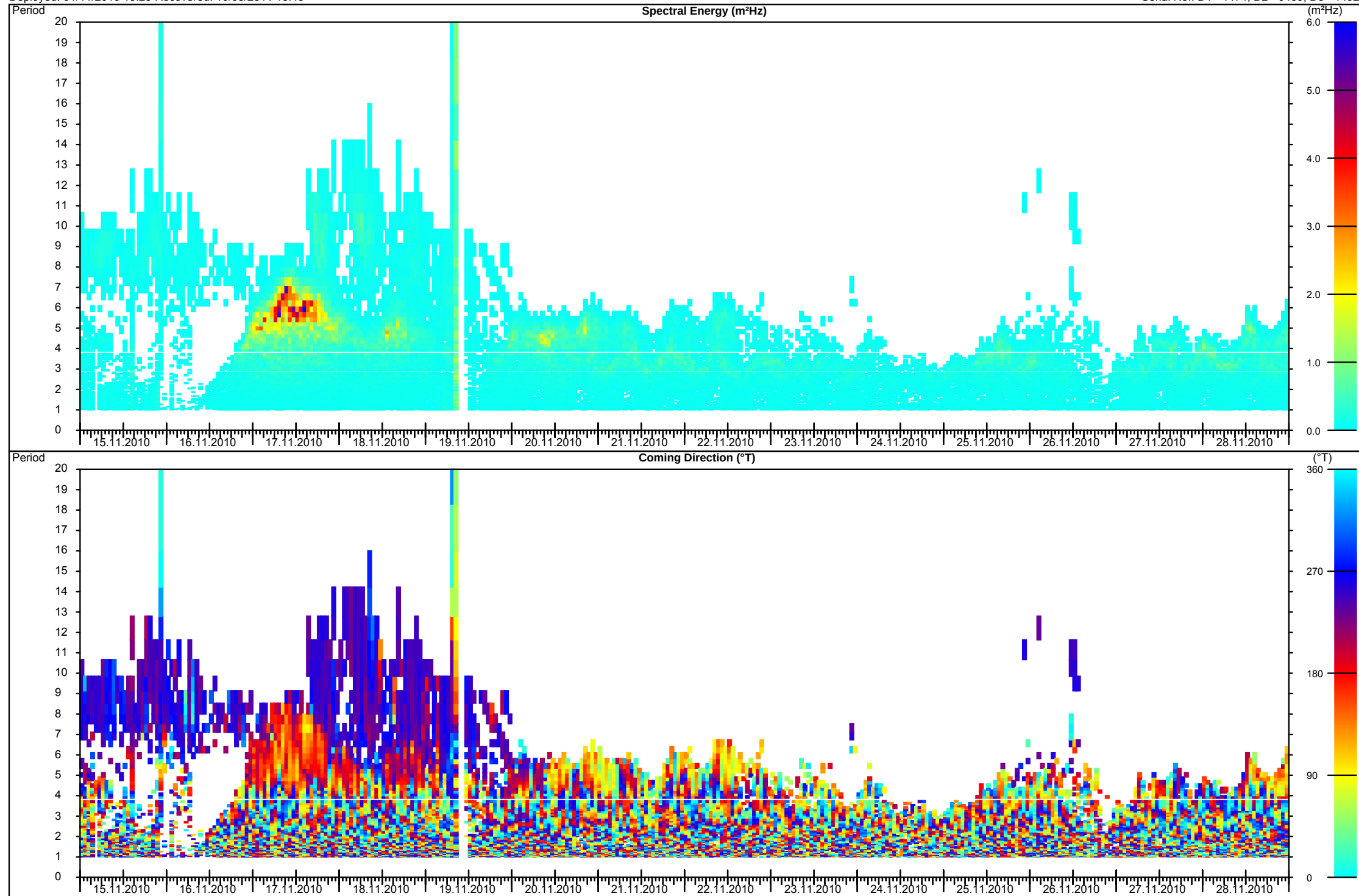
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



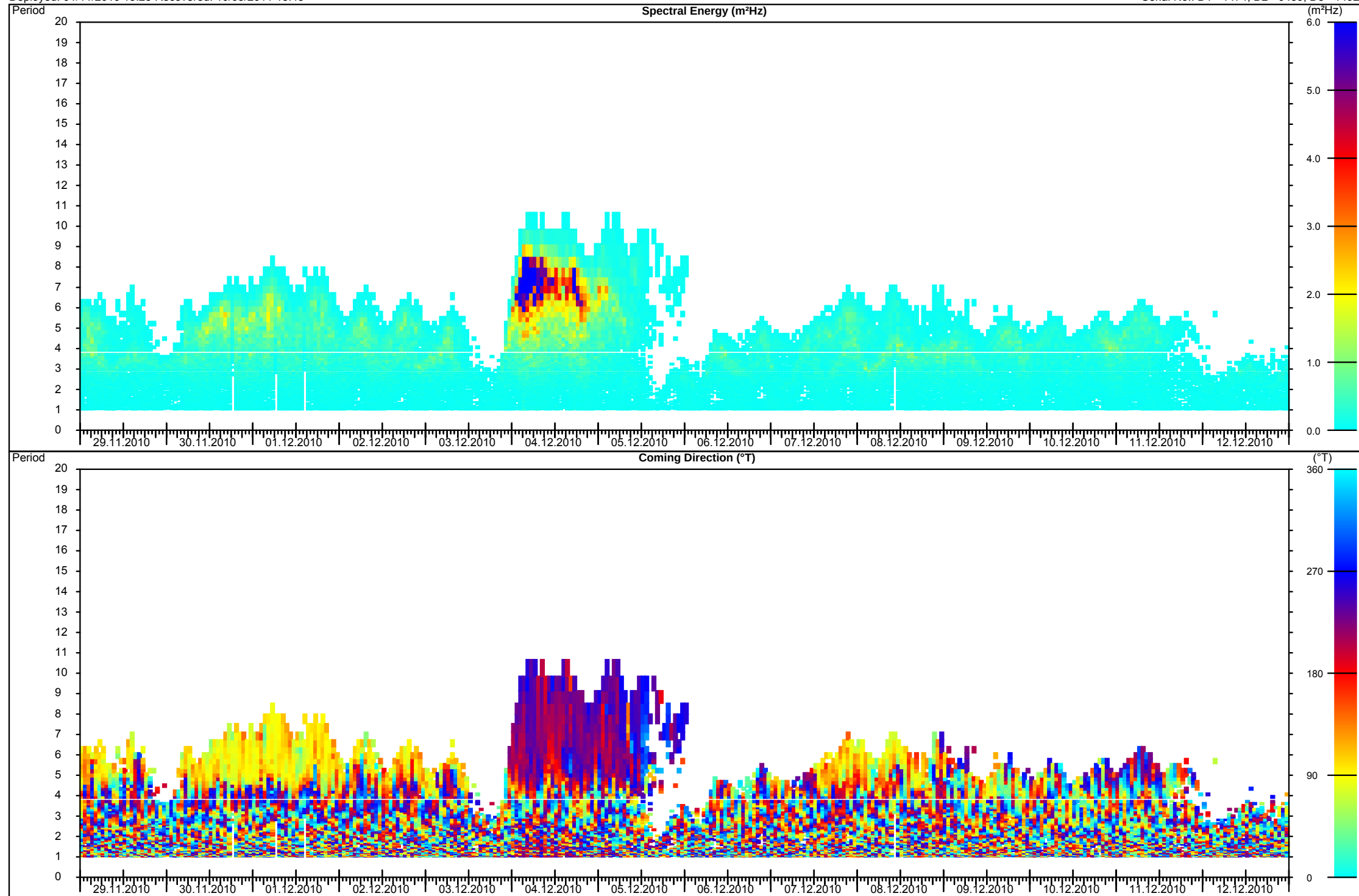
Rampion Offshore Wind Farm MetOcean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



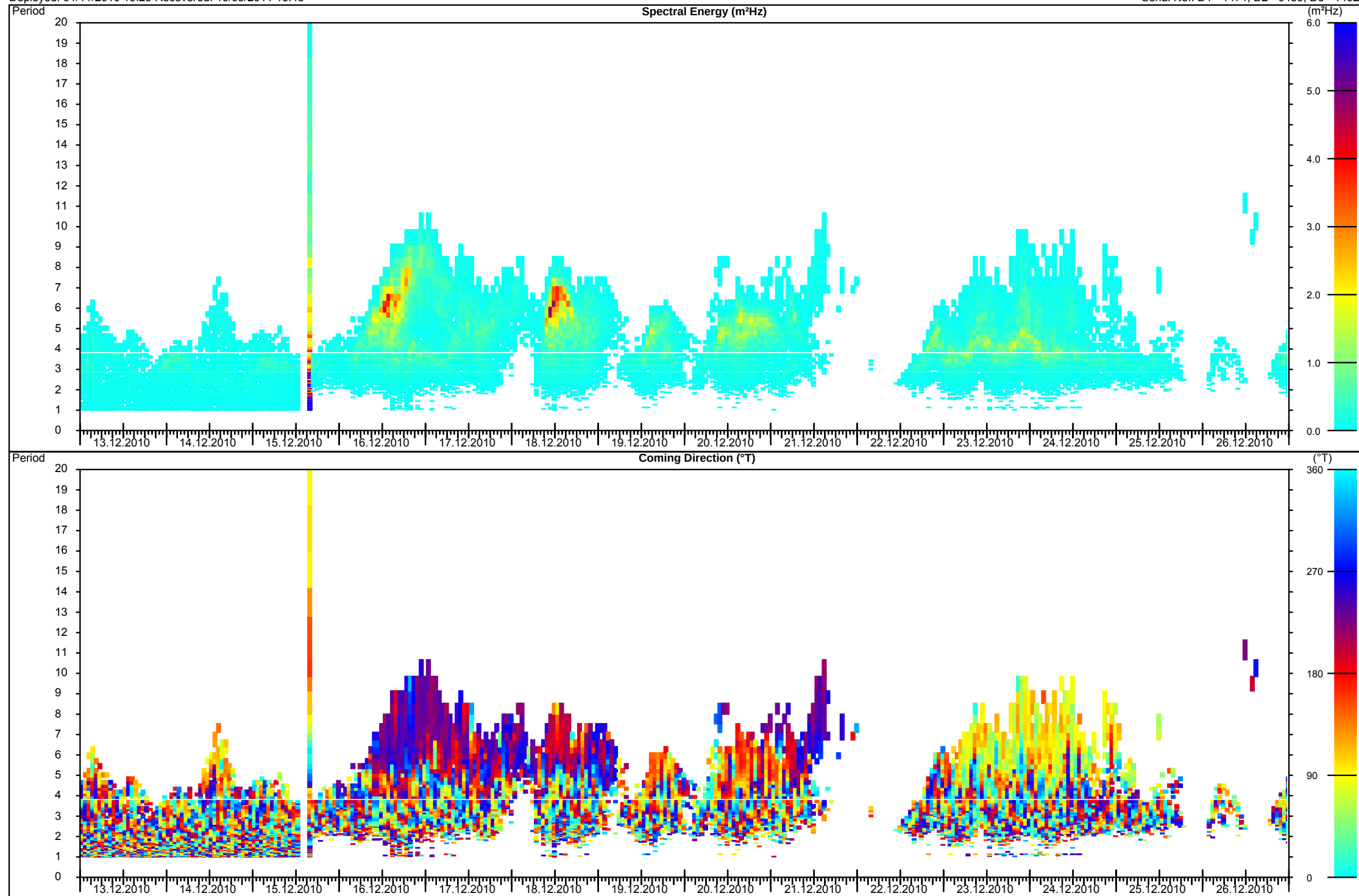
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



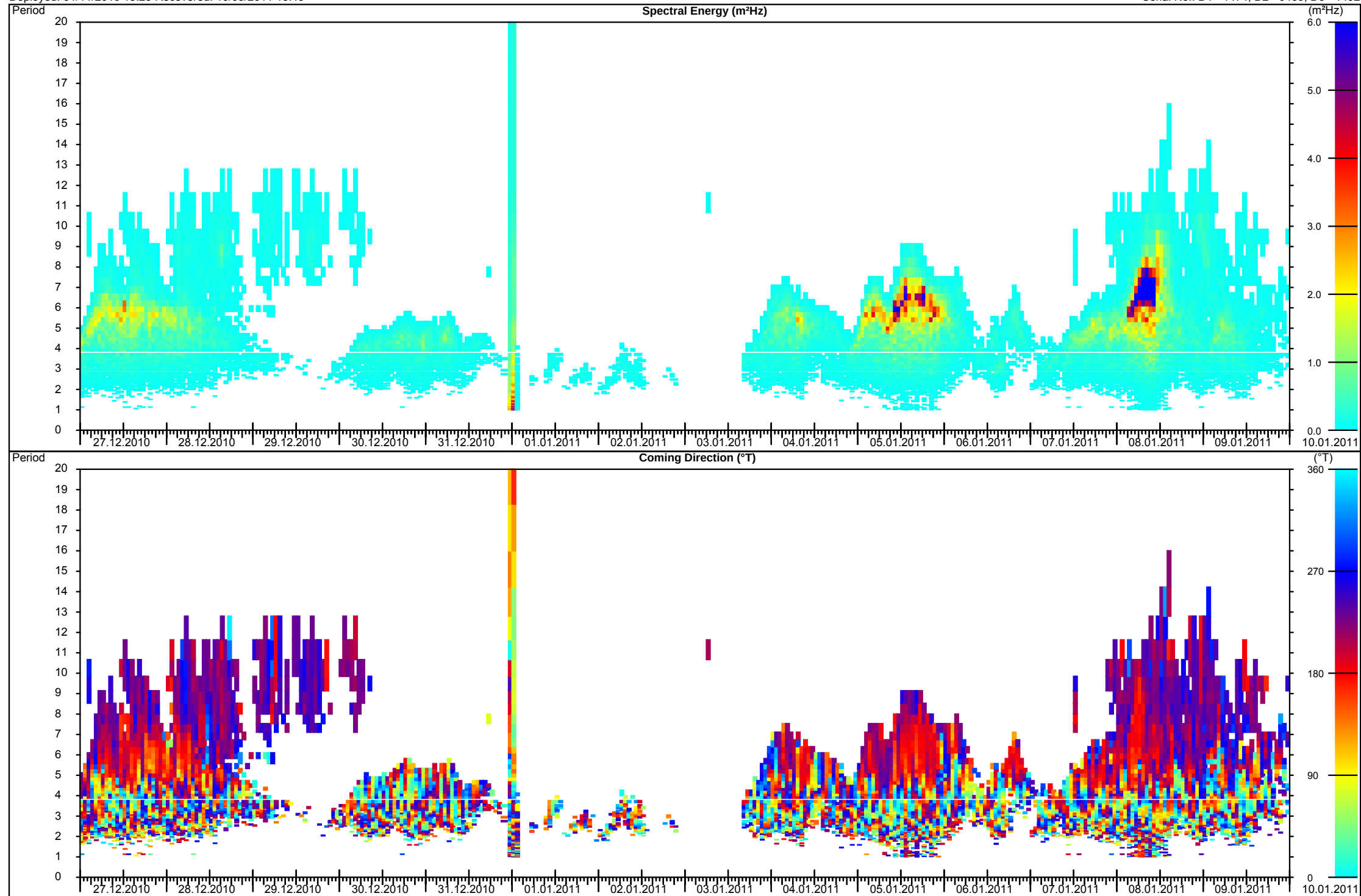
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



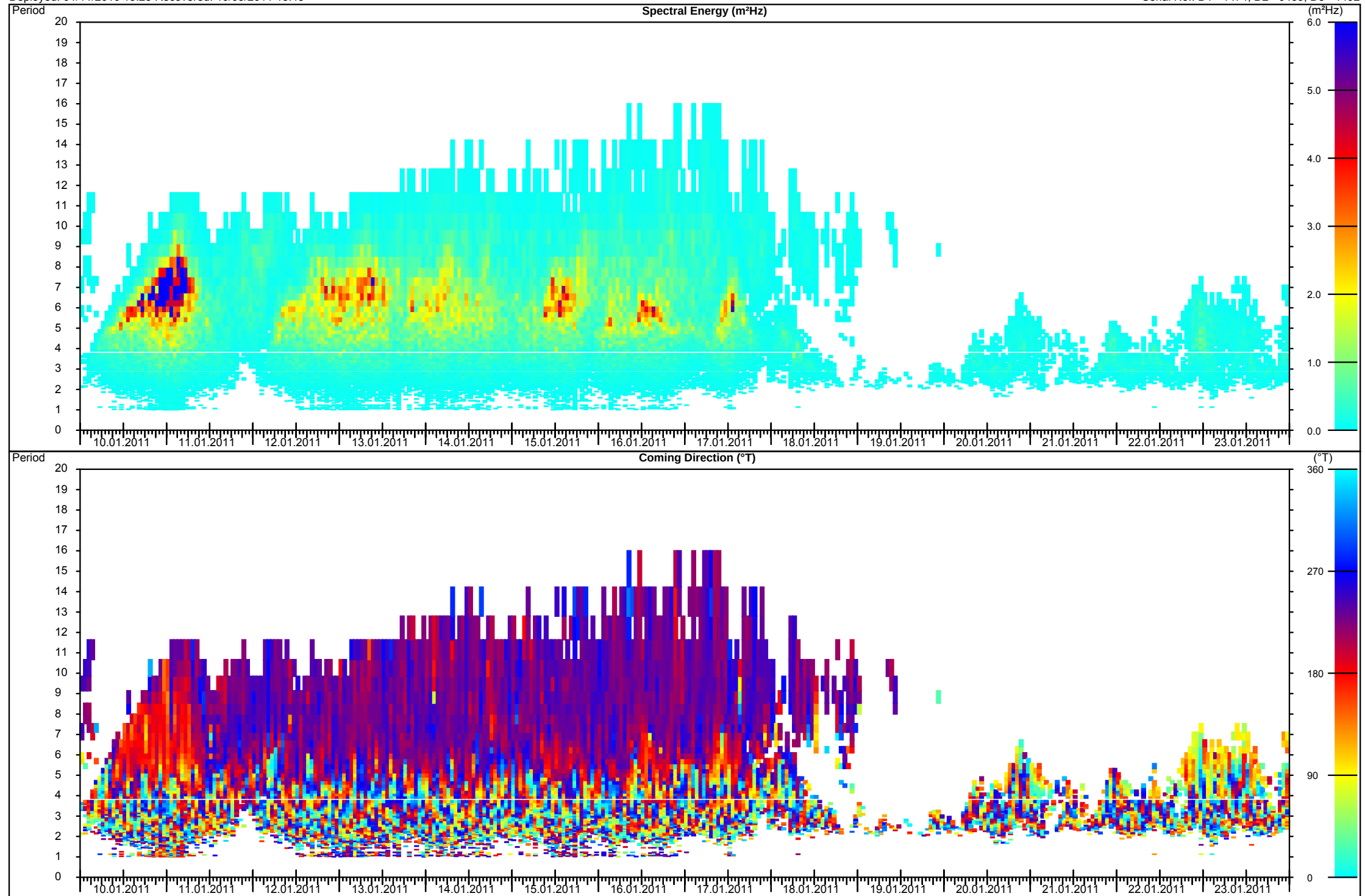
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



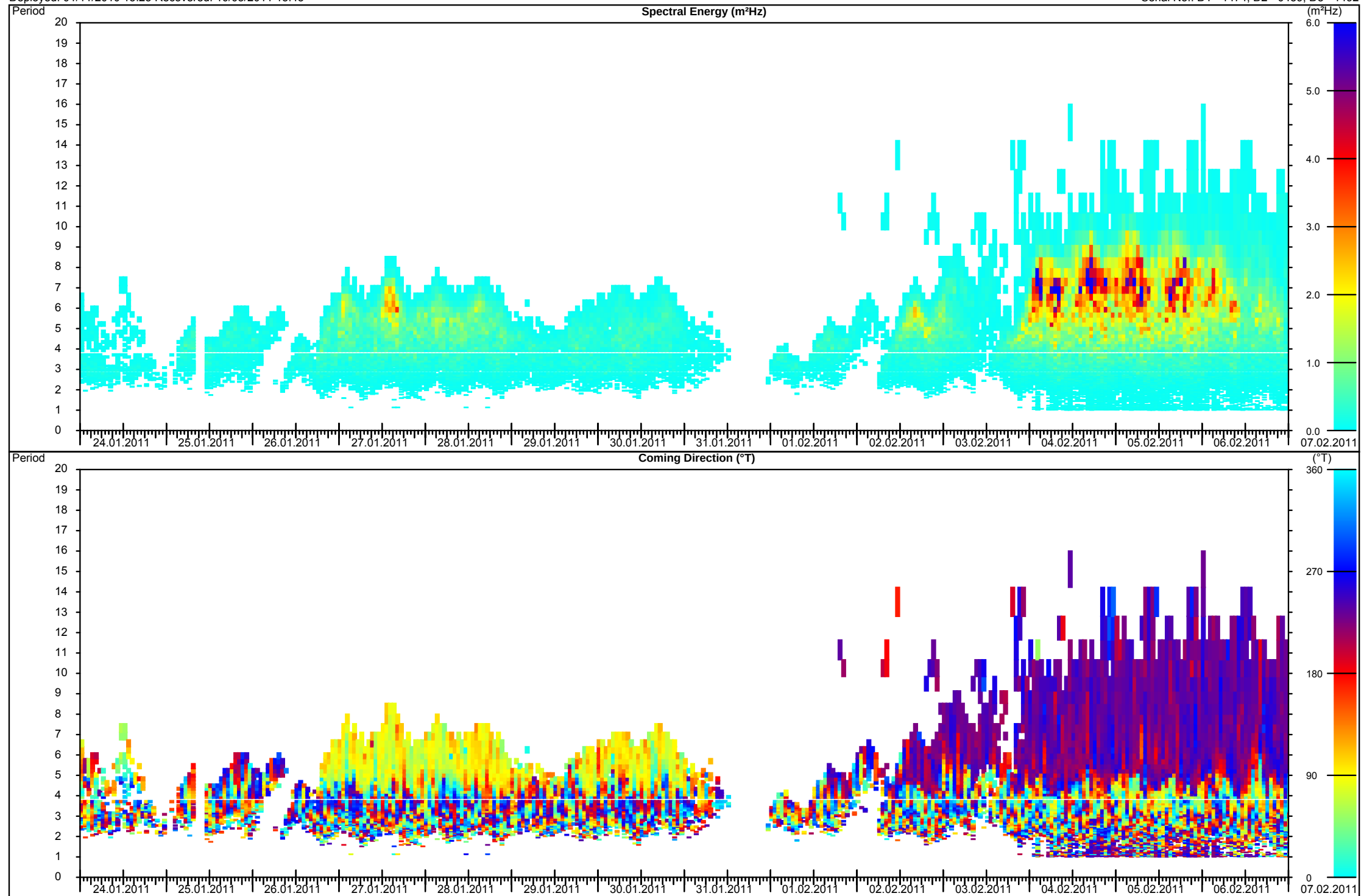
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



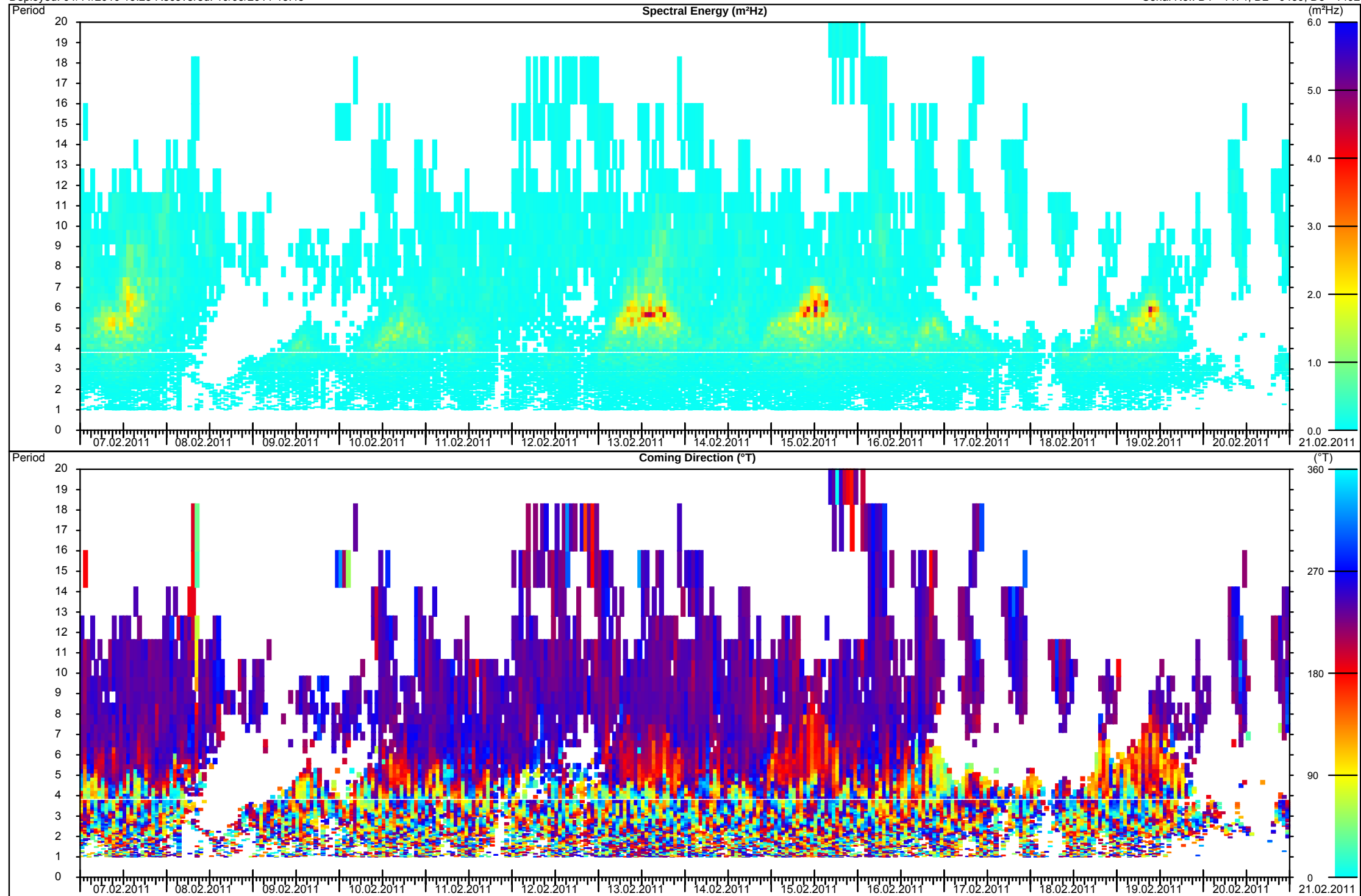
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



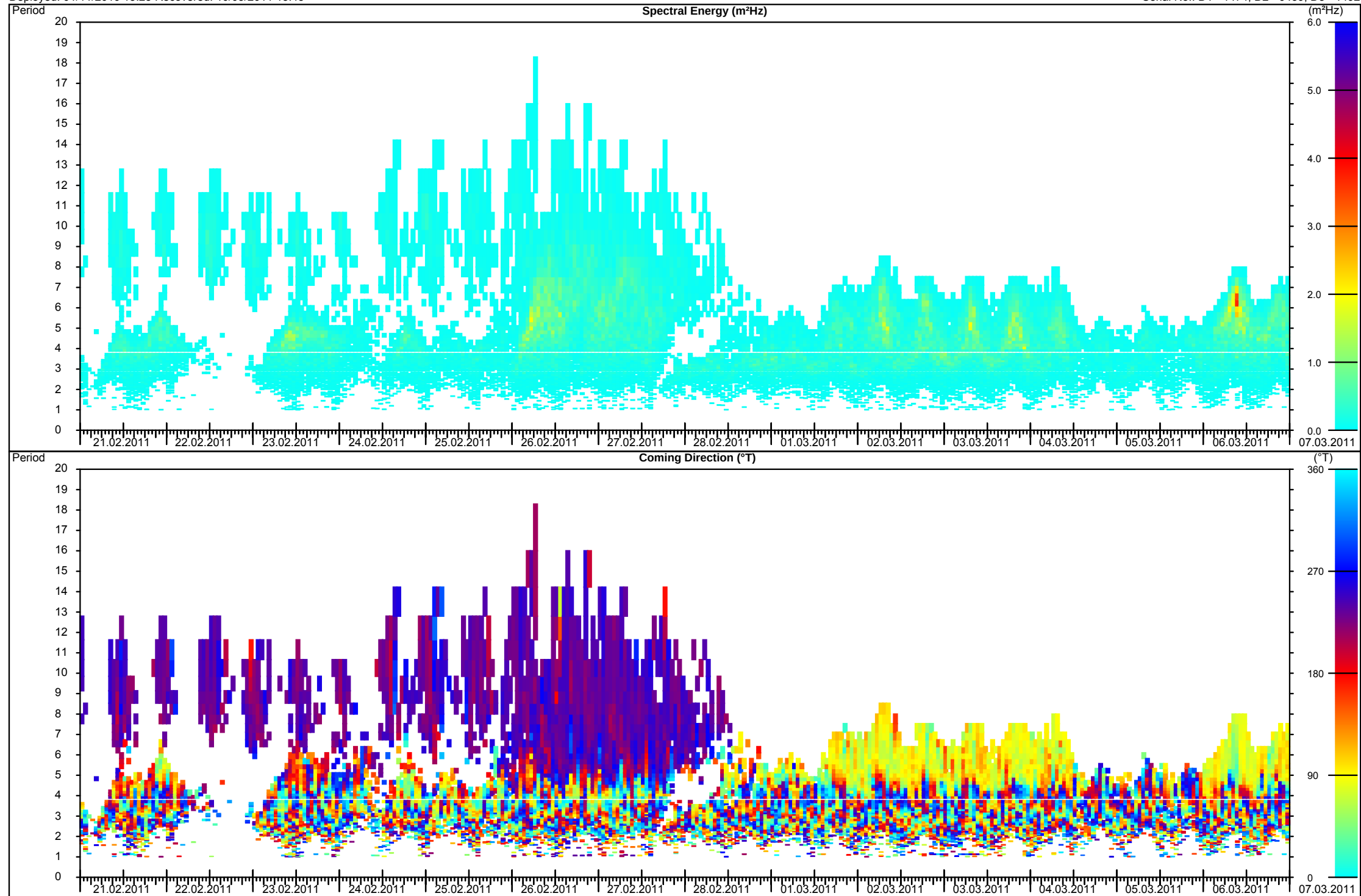
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



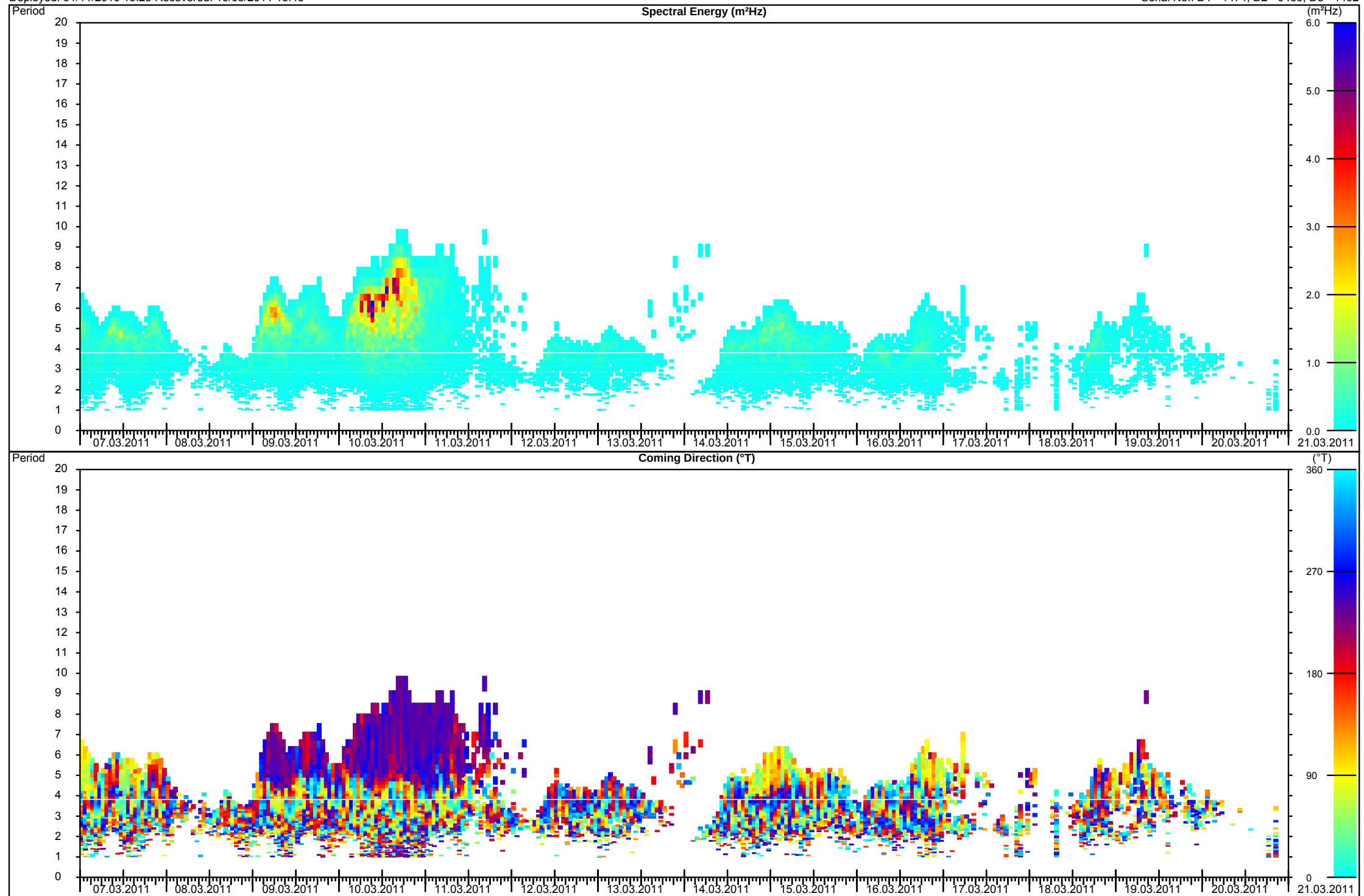
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



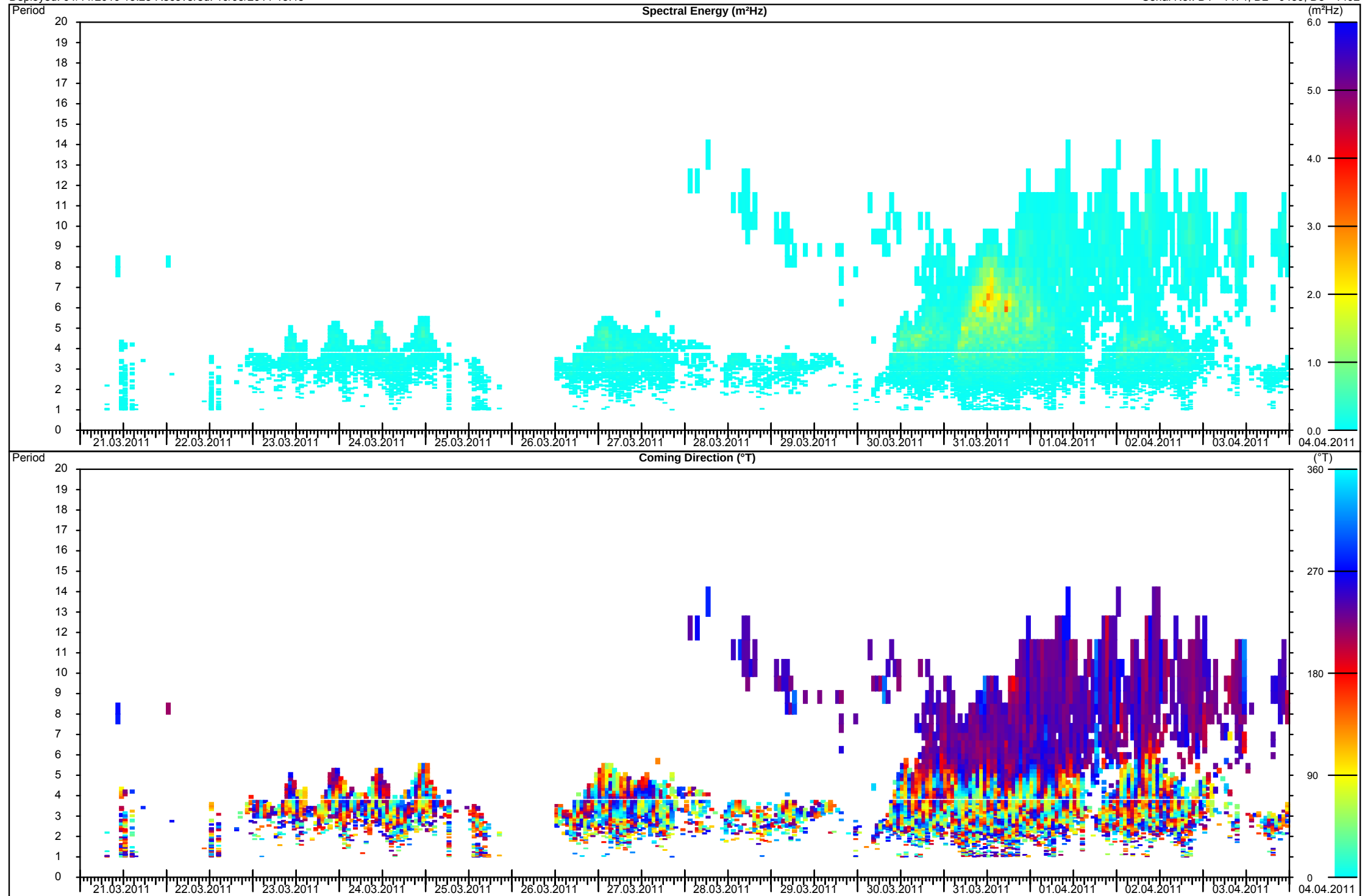
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



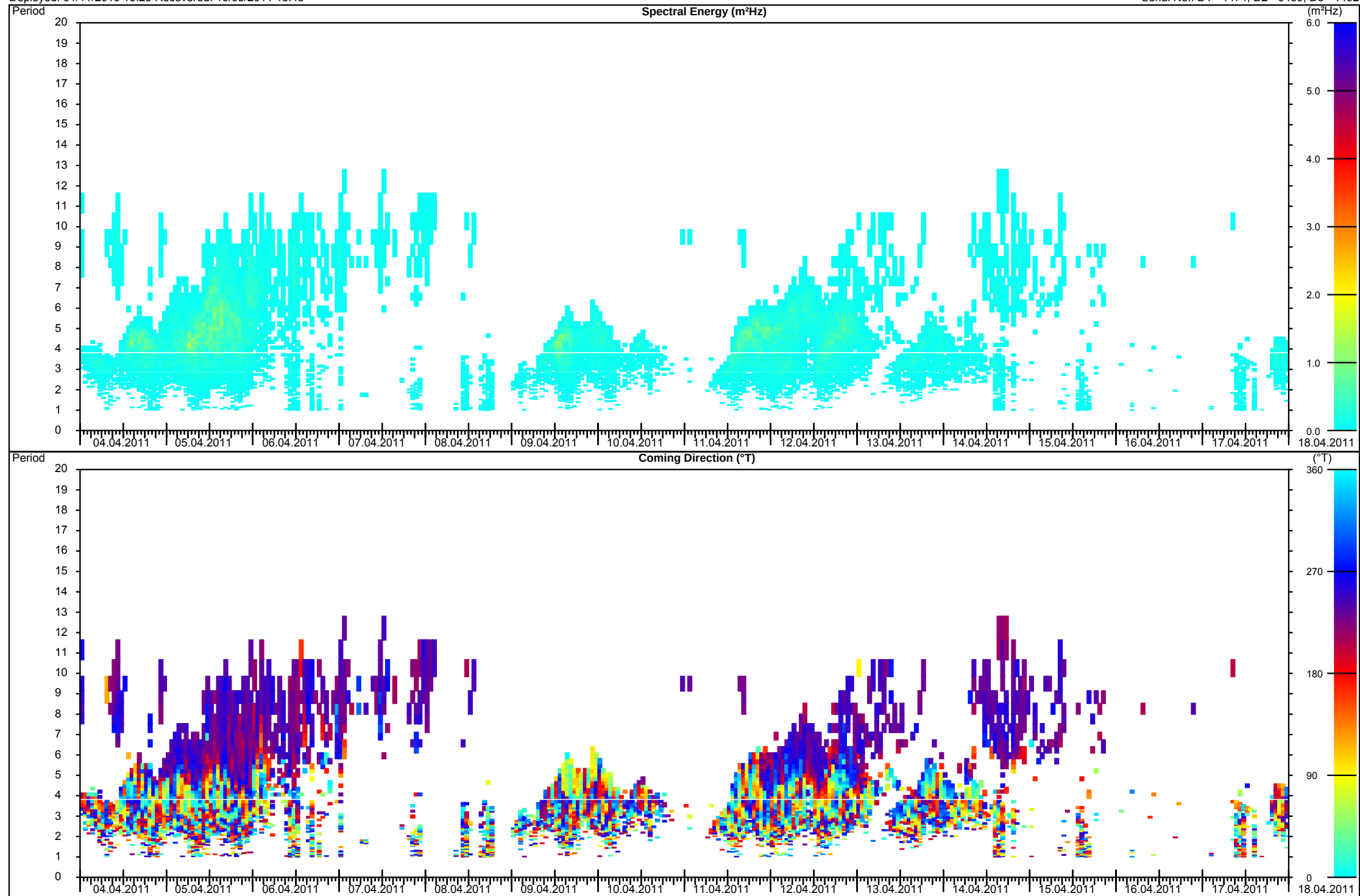
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



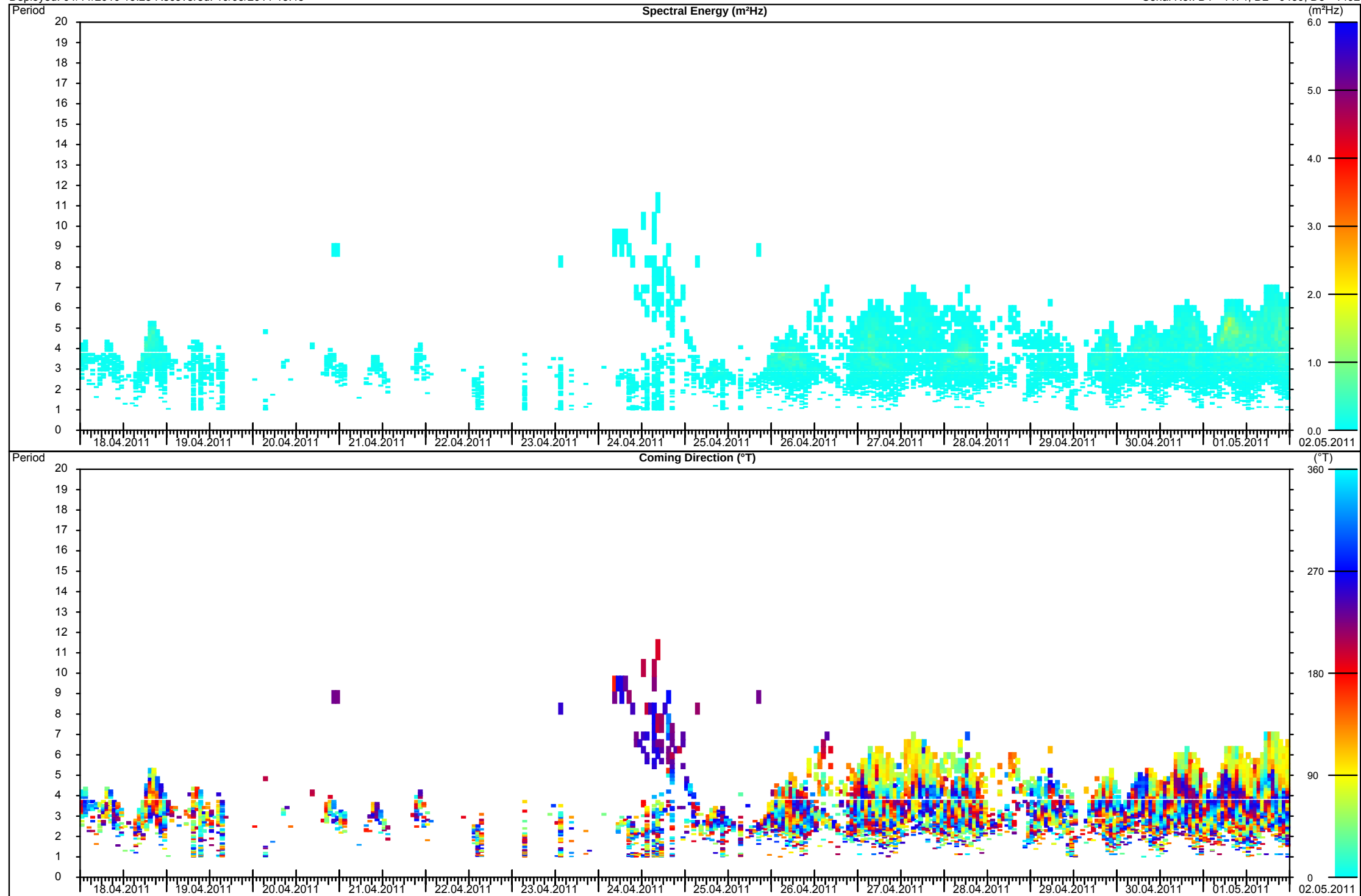
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



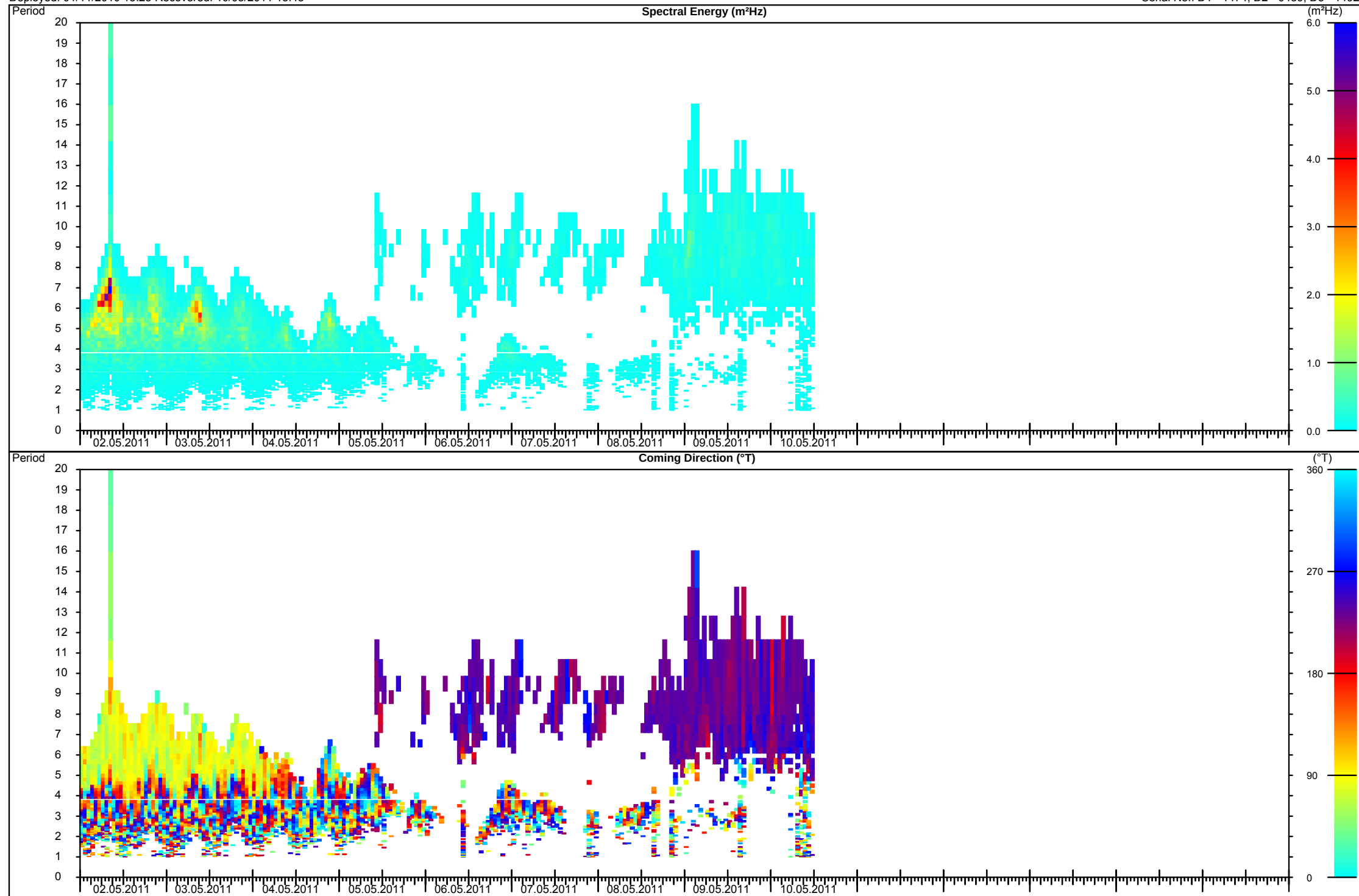
Rampion Offshore Wind Farm Metocean Survey and Assessment, Location 3, Deployments 1 - 3

Latitude: 50°38'00"N Longitude: 000°13'18"W Site depth to LAT: 49m Instrument height off seabed: 0.6m

Current Meter / AWAC

Deployed: 01/11/2010 13:25 Recovered: 10/05/2011 13:45

Serial No.: D1 - 1474, D2 - 0439, D3 - 1492



Frequency Table for data between 0 & 0.5 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0 & 0.5 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

Frequency Distribution of Wind Direction (°) for data between 0° and 360°																																						Count	%
<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360				
																												1		1	2	1	1			6	0.23		
<20	1	2	2	1	1	2	1		1	1																										12	0.47		
<30																																					0	0.00	
<40											4	1	1										1	5													12	0.47	
<50			1	2		2	2	2	2	1																											12	0.47	
<60								2	6	1	3	2	2	1	1																						18	0.70	
<70	2		1			1	3	2								1	1					1							1				1	2	2		18	0.70	
<80								2	5	5																											12	0.47	
<90	1		2	4	1	1		1	1	3	2	4						1																		3	24	0.93	
<100																																						0	0.00
<110	1	2	1	1	2	9	2	3		1				1	2	2	1													4	7	3	2	1	1	2		48	1.86
<120	3								5	1																									1	2		12	0.47
<130					6										1			2		3																	12	0.47	
<140	2	2	2	6			1	2	3	4	2	5	1																								30	1.17	
<150		1	1	1	3					3	3																1	1	2	2	1	4	1				24	0.93	
<160				1		6	1	9	5	2																											24	0.93	
<170							4	3	4	1	1	5																			4	2			1	4	1	30	1.17
<180				3	3	3	6	7	5	1	2													2	1	2	1											36	1.40
<190				1			1	1		11	5	1	1				1		1		1																30	1.17	
<200						2	2	5	13	2							5	1				4	2	1	1												42	1.63	
<210	1	6	7	3	11	13	8	5	10	2	2		1		1							3		5	3	5	5	2									96	3.73	
<220	5	2	5	13	8	7	12	23	30	10	12									1	4	1				2	3	2	1	5	6	6	1	2	2	5	168	6.53	
<230	6	19	7	11	5	14	17	35	44	25	11	10	17	17	5	6	5	3	1	2	2	9	12	16	9	8	1	2	5	3	2	5	5	5	8	8	360	13.99	
<240	16	9	11	7	4	9	26	23	26	46	40	28	14	16	5	5	3	7	5	11	15	6	12	28	25	14	17	14	7	8	10	7	11	9	11	11	516	20.05	
<250	9	8	13	17	22	20	21	21	34	45	23	7	15	9	10	2				1	7	14	16	10	10	21	28	13	9	3	3	2	4	3	3	3	426	16.55	
<260	6	9	3	9	2	10	3	9	18	19	10	10	6	2	1		3	2	4	4	1	2	7	6	3	10	14	4	2	7	2		2	7	2	5	204	7.93	
<270					1	1	4	9	18	24	7	1	3	2	2					1	3	5	6	3	6	2	2	2				1	2	3			108	4.20	
<280	1	1			5	9	4	12	6			4	2								1	5	3	3								1	7	3	4	1	72	2.80	
<290	1	1	3		1	2		7	4	9	4	3	1											12	2	3	3	2		1	1						60	2.33	
<300				1			1	11	12	5														6													36	1.40	
<310						2		5	1		6	5	2	1	1		1				1	3	2		3	2	7										42	1.63	
<320								6	1	3	2											1	5														18	0.70	
<330				1						5				1		2	1			2																	12	0.47	
<340					3	5	6	4		3		3											3	3													30	1.17	
<350								1	4	1																											6	0.23	
<360	1	3	3	3		2				3	3																										18	0.70	
																																					2574	100.00	
Count	56	65	62	85	78	117	123	201	258	241	147	92	66	50	27	19	17	19	15	21	35	53	73	89	71	66	88	50	30	38	35	31	37	37	38	44	2574		
%	2.18	2.53	2.41	3.30	3.03	4.55	4.78	7.81	10.02	9.36	5.71	3.57	2.56	1.94	1.05	0.74	0.66	0.74	0.58	0.82	1.36	2.06	2.84	3.46	2.76	2.56	3.42	1.94	1.17	1.48	1.36	1.20	1.44	1.44	1.48	1.71	100.00		

Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0 & 0.5 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

	<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360	Count	%
<10																																					0	0.00
<20																																					0	0.00
<30																																					0	0.00
<40																																					0	0.00
<50																																					0	0.00
<60																																					0	0.00
<70																																					0	0.00
<80																																					0	0.00
<90																																					0	0.00
<100										4	2																										6	0.83
<110																																					0	0.00
<120																																					0	0.00
<130																																					0	0.00
<140																																					0	0.00
<150																																					0	0.00
<160																																					0	0.00
<170																																					0	0.00
<180					1				5																												6	0.83
<190		2	2	1	1																																6	0.83
<200																																					0	0.00
<210																																					0	0.00
<220																																					0	0.00
<230		1	1	2	3	2	3	1				3				1	1		2		3	2	6	3	6	4	4	4	2							54	7.44	
<240	13	11	9	7	13	7	10	10	5	13	34	22	10	9	10	18	3	6	6	5	6	10	14	15	25	17	19	18	9	2	5	6	13	14	14	12	420	57.85
<250	8	4	9	13	10	8	3	6	6	5	7	11	3	2	2	4	2	3	9	5	4	4	3	6	3	10	12	4		1	4	2	3	6	11	5	198	27.27
<260																				5	1															12	1.65	
<270																																					0	0.00
<280	1	2		2				4	1	2																											12	1.65
<290																																					0	0.00
<300																																					0	0.00
<310					1	3	2																														6	0.83
<320																																					6	0.83
<330																																					0	0.00
<340																																					0	0.00
<350																																					0	0.00
<360																																					0	0.00
Count	22	20	21	25	28	18	19	23	17	24	43	36	13	11	12	23	6	9	17	15	14	16	23	24	34	31	35	26	11	4	12	12	19	21	25	17	726	100.00
%	3.03	2.75	2.89	3.44	3.86	2.48	2.62	3.17	2.34	3.31	5.92	4.96	1.79	1.52	1.65	3.17	0.83	1.24	2.34	2.07	1.93	2.20	3.17	3.31	4.68	4.27	4.82	3.58	1.52	0.55	1.65	1.65	2.62	2.89	3.44	2.34	100.00	

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0 & 0.5 Significant Wave Height (m) and for data between 10 & 15 Peak Period (sec)

	<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360	Count	%	
<10																																						0	0.00
<20																																						0	0.00
<30																																						0	0.00
<40																																						0	0.00
<50																																						0	0.00
<60																																						0	0.00
<70																																						0	0.00
<80																																						0	0.00
<90																																						0	0.00
<100																																						0	0.00
<110																																						0	0.00
<120																																						0	0.00
<130																																						0	0.00
<140																																						0	0.00
<150																																						0	0.00
<160																																						0	0.00
<170																																						0	0.00
<180																																						0	0.00
<190																																						0	0.00
<200																																						0	0.00
<210																																						0	0.00
<220																																						0	0.00
<230														5	4	2	1										2	2	2								18	23.08	
<240	2	1	1	5	2				1	5					2	4					3	2	1	2	3	2										36	46.15		
<250	1	1	1		1			4	2	4	2												1	3	1	1								2		24	30.77		
<260																																					0	0.00	
<270																																					0	0.00	
<280																																					0	0.00	
<290																																					0	0.00	
<300																																					0	0.00	
<310																																							

Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0.5 & 1 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

	<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360	Count	%		
<10			6	4	2			6		2	4		2	1	1			1										1									30	0.48		
<20																										1	4	1									6	0.10		
<30								7	5																												12	0.19		
<40							3	3																													6	0.10		
<50				3	4	3	2				6														1	5	5	6	1								36	0.58		
<60	7	9	1	6	8	9	6																				6								2	54	0.87			
<70	3	11	10	7	12	6	6	10	12	9			2		2													6									96	1.54		
<80	15	28	17	25	14	15	7	8	9	5	10	2		1	2	1			1	1															7	168	2.70			
<90	5	2	18	12	10	14	17	40	20	2	3	7	2	4									1	2	1	2	1							2	6	9	180	2.89		
<100	10	9	37	40	13	22	13	20	18	6	1	3	1																	5	1				4	11	8	222	3.57	
<110	3	7	10	21	15	36	28	15	27	9	4	1	1													1	1						1	3	3	4	2	192	3.09	
<120	16	8	20	22	31	17	6	12	10	14	7	2	1													1	1	4								8	180	2.89		
<130	10	13	18	21	9	1	2	6	9	3	4				4	1	1												2	4							108	1.74		
<140	5	4	10	5	23	8	13	17	10	1			3	2	1					1	1					3	5	13	11						1	137	2.20			
<150	4	7	1	10	15	24	16	10	1	5																		6							1	1	1	102	1.64	
<160	2	13	3	4	14	6	5	1	11	8	5											3	3				4	2									84	1.35		
<170		6	10	8	6	5	3	1	3																												42	0.68		
<180	2	9	9	7	5	20	18	8																													78	1.25		
<190	3	15	12	5	4	1	2	19	11	9	3			3	3							6	5	1			4	2									108	1.74		
<200	2	6	8	8	7	15	3	8	3	12															2	10	5	1						6			96	1.54		
<210	6	6	10	14	13	3	20	22	15	5	6								1	5	7	2	3	2	6	4	2	3			1						156	2.51		
<220	7	31	27	8	11	11	8	25	15	21	1				5	1	2	11	5							1	4	1	5	7	2	1	2	1			2	1	216	3.47
<230	15	22	13	11	9	19	19	13	11	36	26	17	2	8	18	19	16	14	17	7	10	10	8	12	24	30	34	7	3	7	1		10	3	1	2	474	7.62		
<240	38	42	18	13	24	45	48	53	68	80	81	54	36	20	39	36	33	14	69	65	50	60	84	115	95	114	118	52	29	12	11	13	30	27	24	17	1727	27.77		
<250	19	28	17	10	21	20	24	24	37	42	56	36	15	9	19	18	23	18	27	35	58	48	67	72	88	76	22	14	7	3	19	12	19	12	14	9	1038	16.69		
<260				1	6	7	14	11	30	20	13	2	8	2	2	7	9	7	9	4	9	1		1	7	13	1		2	2	4						192	3.09		
<270		2	7	20	9	7	4	5	9	11	2	2	6	1	1	7	1	8	6						1	5	15	6	3								138	2.22		
<280	6	5	1	1		3	9	9	3	8	3	6							2		1			5	3	12	6	1									84	1.35		
<290				3	4	8	4	4	6	5	1															6								1			42	0.68		
<300			8	11	4	3	4		3	1	2													3	3			1	1	3	1						48	0.77		
<310					3	7	8	3	6	2		1														2	3	1									36	0.58		
<320			6	5	1	6		6	5	1																											30	0.48		
<330	2	4						4	8																												18	0.29		
<340				2	10	1	12	5			6																										36	0.58		
<350			2	3	1	7	9	2																			6										30	0.48		
<360			2	4		9	3																														18	0.29		
Count	180	287	301	314	308	358	336	377	365	317	244	133	79	51	92	94	84	64	140	120	133	137	173	215	237	304	237	119	73	30	38	28	69	53	63	67	6220	100.00		
%	2.89	4.61	4.84	5.05	4.95	5.76	5.40	6.06	5.87	5.10	3.92	2.14	1.27	0.82	1.48	1.51	1.35	1.03	2.25	1.93	2.14	2.20	2.78	3.46	3.81	4.89	3.81	1.91	1.17	0.48	0.61	0.45	1.11	0.85	1.01	1.08	100.00			

Frequency Table for data between 0.5 & 1 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0.5 & 1 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

	<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360	Count	%
<10																																					0	0.00
<20																																					0	0.00
<30																																					0	0.00
<40																																					0	0.00
<50																																					0	0.00
<60																																					0	0.00
<70																																					0	0.00
<80		1			6	2	2	1																												12	0.90	
<90			5	17	9	11	3	1	7	6			1																							60	4.48	
<100			2	22	9	8	7																				1	5								54	4.04	
<110				8	10	1													1	2				2												24	1.79	
<120					3	3	4	2																												12	0.90	
<130	5	1				6																														12	0.90	
<140																																					0	0.00
<150																																					0	0.00
<160																																	1	5	6	0.45		
<170																																					0	0.00
<180					2	4																														6	0.45	
<190																																2	3	1	6	0.45		
<200	3																																		1	2	6	0.45
<210																																					0	0.00
<220	5			1	2	1	2																		1	5	3	3	3	3					1	30	2.24	
<230		1	5						4	7						6			6																8	4	42	3.14
<240	8	9	4	2		2	5	9	6	7	11	10	25	39	28	23	25	32	21	23	35	52	63	31	31	78	38	21	23	32	11	5	7	1	1	2	720	53.81
<250	7	4	5	3	1	2	2	1	1	5	5	10	6	7	7	10	21	14	14	25	24	20	14	11	15	25	25	8	4	7	4	6	10	4	5	4	336	25.11
<260																											8	3		1						12	0.90	
<270																																					0	0.00
<280																																					0	0.00
<290																																					0	0.00
<300																																					0	0.00
<310																																					0	0.00
<320																																					0	0.00
<330																																					0	0.00
<340																																					0	0.00
<350																																					0	0.00
<360																																					0	0.00
Count	28	16	21	53	42	40	25	14	18	25	16	20	32	46	35	39	46	46	41	49	61	72	77	45	47	109	79	35	30	43	15	14	25	6	15	13	1338	
%	2.09	1.20	1.57	3.96	3.14	2.99	1.87	1.05	1.35	1.87	1.20	1.49	2.39	3.44	2.62	2.91	3.44	3.44	3.06	3.66	4.56	5.38	5.75	3.36	3.51	8.15	5.90	2.62	2.24	3.21	1.12	1.05	1.87	0.45	1.12	0.97	100.00	

Frequency Table for data between 0.5 & 1 Significant Wave Height (m) and for data between 10 & 15 Peak Period (sec)
Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00 Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 0.5 & 1 Significant Wave Height (m) and for data between 10 & 15 Peak Period (sec)																																				Count	%
<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360		
<10																																				0	0.00
<20																																				0	0.00
<30																																				0	0.00
<40																																				0	0.00
<50																																				0	0.00
<60																																				0	0.00
<70																																				0	0.00
<80																																				0	0.00
<90																																				0	0.00
<100																																				0	0.00
<110																																				0	0.00
<120																																				0	0.00
<130																																				0	0.00
<140																																				0	0.00
<150																																				0	0.00
<160																																				0	0.00
<170																																				0	0.00
<180																																				0	0.00
<190																																				0	0.00
<200																																				0	0.00
<210																																				0	0.00
<220																																				0	0.00
<230					1																			1		3		2								12	6.67
<240	6	1			8	4				2	6	5	5	8	5	10	1	7	10	12	10	2	3	7	2	4	1	1			1		2	2	12	138	76.67
<250												2	4				2	5	5					5	1				2	2	2				30	16.67	
<260																																				0	0.00
<270																																				0	0.00
<280																																				0	0.00
<290																																				0	0.00
<300																																				0	0.00
<310																																				0	0.00
<320																																				0	0.00
<330																																				0	0.00
<340																																				0	0.00
<350																																				0	0.00
<360																																				0	0.00
Count	6	1	0	0	9	9	1	0	0	0	2	6	7	9	8	5	10	3	12	15	12	10	2	3	8	10	7	1	1	2	2	3	0	2	2	12	180
%	3.33	0.56	0.00	0.00	5.00	5.00	0.56	0.00	0.00	0.00	1.11	3.33	3.89	5.00	4.44	2.78	5.56	1.67	6.67	8.33	6.67	5.56	1.11	1.67	4.44	5.56	3.89	0.56	0.56	1.11	1.11	1.67	0.00	1.11	1.11	6.67	100.00

Frequency Table for data between 1 & 1.5 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 1 & 1.5 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

Frequency Distribution of Wind Direction (%) against mean Coming Direction (%) for data between 2.4 and 5.9m Significant Wave Height (m) and for data between 0.5 and 1.0m Peak Period (sec)																																					Count	%
<10																																				0	0.00	
<20																																				0	0.00	
<30																																				0	0.00	
<40																																				0	0.00	
<50																																				0	0.00	
<60																																				0	0.00	
<70					3	2	1																												6	0.41		
<80		1	7	6	11	17	6	14	22																										84	5.67		
<90		4	52	39	36	34	19	36	52	15																									288	19.45		
<100		4	34	63	16	6	8	17	9	5	5																								168	11.34		
<110		1	18	6		5	1	12	1	4																									48	3.24		
<120	1	3	15	5			1	2	3	6																									36	2.43		
<130											4	2																								6	0.41	
<140			8	4	1	4	1																												18	1.22		
<150																																				0	0.00	
<160													2	4																					6	0.41		
<170			3	3							6																								12	0.81		
<180			5	1										14	4																				24	1.62		
<190											6																									6	0.41	
<200																																				0	0.00	
<210													8	3	1					2	7	14	3	4								6		48	3.24			
<220													6	6					1	5	6	9	3	4	2									42	2.84			
<230											1	5				1	5	3	7	10	36	18	11	14	7								1	119	8.04			
<240										7	4	1	19	13	11	4	7	13	19	16	30	21	31	46	59	31	22	2	4	6				366	24.71			
<250					5	3	4													3	25	18	18	36	18	9	11	4	4	6	4			168	11.34			
<260																						9	9			6								24	1.62			
<270																																				0	0.00	
<280										2	4																								6	0.41		
<290																																				0	0.00	
<300																																				0	0.00	
<310																																				0	0.00	
<320																																				0	0.00	
<330																																				0	0.00	
<340																										4	2								6	0.41		
<350																																				0	0.00	
<360																																				0	0.00	
Count	1	13	142	127	67	73	40	85	87	43	27	2	30	21	37	11	9	18	23	33	78	98	82	110	93	57	35	12	8	12	4	0	0	0	3	0	1481	
%	0.07	0.88	9.59	8.58	4.52	4.93	2.70	5.74	5.87	2.90	1.82	0.14	2.03	1.42	2.50	0.74	0.61	1.22	1.55	2.23	5.27	6.62	5.54	7.43	6.28	3.85	2.36	0.81	0.54	0.81	0.27	0.00	0.00	0.00	0.20	0.00	100.00	

Frequency Table for data between 1 & 1.5 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

Table E 008

Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m

Meteorological Station / PlanetOcean-DualChannel

Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 1 & 1.5 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

	<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360	Count	%
<10																																					0	0.00
<20																																					0	0.00
<30																																					0	0.00
<40																																					0	0.00
<50																																					0	0.00
<60																																					0	0.00
<70			6				6			6																											18	1.14
<80		1	11		28	27	17	8	10	13	4																								1		120	7.60
<90		11	29	48	83	139	50	22	25	16	1																								1		426	27.00
<100			8	21	19	16	6	1	6																										1		78	4.94
<110																																					0	0.00
<120											1	6	1	4																							12	0.76
<130																																					0	0.00
<140																																					0	0.00
<150															5	1											1		4			1				12	0.76	
<160													4	8																							12	0.76
<170								1	6	5				6				2		1			1			1	1										24	1.52
<180									1	3	2		5	1			1	2	3																		18	1.14
<190														5	1																						6	0.38
<200																				1	1	4															6	0.38
<210																						4	8														12	0.76
<220												5	1				13	4	16	8	1	17	13	5											1		84	5.32
<230										6					3	3		6	6			16	10	13	17	25	12	7	7		1						132	8.37
<240			1						1											3	29	60	64	56	30	46	32	16	55	29	3	1					426	27.00
<250																		2	4	6	5	9	16	11	9	31	7	21	21	20	2	3	1				168	10.65
<260																							1	5	2	10											24	1.52
<270																																					0	0.00
<280																																					0	0.00
<290																																					0	0.00
<300																																					0	0.00
<310																																					0	0.00
<320																																					0	0.00
<330																																					0	0.00
<340																																					0	0.00
<350																																					0	0.00
<360																																					0	0.00
Count	0	12	55	69	130	182	79	31	43	48	14	8	6	14	25	5	16	5	28	22	12	75	101	99	90	67	100	46	48	76	51	7	8	4	0	2	1578	100.00
%	0.00	0.76	3.49	4.37	8.24	11.53	5.01	1.96	2.72	3.04	0.89	0.51	0.38	0.89	1.58	0.32	1.01	0.32	1.77	1.39	0.76	4.75	6.40	6.27	5.70	4.25	6.34	2.92	3.04	4.82	3.23	0.44	0.51	0.25	0.00	0.13	100.00	

Frequency Table for data between 1 & 1.5 Significant Wave Height (m) and for data between 10 & 15 Peak Period (sec)
Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00 Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 1 & 1.5 Significant Wave Height (m) and for data between 10 & 15 Peak Period (sec)																																				Count	%	
<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360			
<10																																					0	0.00
<20																																					0	0.00
<30																																					0	0.00
<40																																					0	0.00
<50																																					0	0.00
<60																																					0	0.00
<70																																					0	0.00
<80																																					0	0.00
<90																																					0	0.00
<100																																					0	0.00
<110																																					0	0.00
<120																																					0	0.00
<130																																					0	0.00
<140																																					0	0.00
<150																																					0	0.00
<160																																					0	0.00
<170																																					0	0.00
<180																																					0	0.00
<190																																					0	0.00
<200																																					0	0.00
<210																																					0	0.00
<220																																					0	0.00
<230																																					0	0.00
<240																																					6	100.00
<250																																					0	0.00
<260																																					0	0.00
<270																																					0	0.00
<280																																					0	0.00
<290																																					0	0.00
<300																																					0	0.00
<310																																		</				

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00

Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 1.5 & 2 Significant Wave Height (m) and for data between 0 & 5 Peak Period (sec)

[illegible]

Frequency Table for data between 1.5 & 2 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)
Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00 Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 1.5 & 2 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)																																				Count	%	
<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360			
<10																																					0	0.00
<20																																					0	0.00
<30																																					0	0.00
<40																																					0	0.00
<50																																					0	0.00
<60																																					0	0.00
<70																																					0	0.00
<80					7	5	32	15	19																											78	12.75	
<90				6	3	3	5	6	1																											24	3.92	
<100																																					0	0.00
<110																																					0	0.00
<120																																					0	0.00
<130																																					0	0.00
<140																																					0	0.00
<150												1	4	1																						6	0.98	
<160																																					0	0.00
<170															7	3	2																			12	1.96	
<180															1	10	3	14	2																30	4.90		
<190															5	1																				6	0.98	
<200																4	2																			6	0.98	
<210																6	6	2	4																18	2.94		
<220																7	30	15	2																54	8.82		
<230																		13	5							3	9	11	13						54	8.82		
<240				1																						12	35	87	75	35	1				246	40.20		
<250																											9	11	40	9	8				1	78	12.75	
<260																																					0	0.00
<270																																					0	0.00
<280																																					0	0.00
<290																																					0	0.00
<300																																					0	0.00
<310																																					0	0.00
<320																																					0	0.00
<330																																					0	0.00
<340																																					0	0.00
<350																																					0	0.00
<360																																					0	0.00
Count	0	1	0	0	13	8	35	20	25	1	0	0	0	1	4	14	31	56	36	8	0	15	53	109	128	44	9	0	0	0	0	0	0	1	0	612		
%	0.00	0.16	0.00	0.00	2.12	1.31	5.72	3.27	4.08	0.16	0.00	0.00	0.00	0.16	0.65	2.29	5.07	9.15	5.88	1.31	0.00	2.45	8.66	17.81	20.92	7.19	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	100.00		

Meteorological Station / PlanetOcean-DualChannel

Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 2 & 2.5 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)

[illegible]

Frequency Table for data between 2.5 & 3 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)
Rampion Offshore Wind Farm Metocean Survey and Assessment

Latitude: 50°38'00.6"N Longitude: 000°13'12.8"W Site depth: 49m Instrument height above sea surface: 4.6m Secondary sensor: 4.2m
Deployed: 25/01/2011 07:33 Recovered: 10/05/2011 12:00 Meteorological Station / PlanetOcean-DualChannel
Serial No.: 3000340136

Frequency Distribution of Wind Direction (°T) against Mean Coming Direction (°T) for data between 2.5 & 3 Significant Wave Height (m) and for data between 5 & 10 Peak Period (sec)																																						Count	%
<10	<20	<30	<40	<50	<60	<70	<80	<90	<100	<110	<120	<130	<140	<150	<160	<170	<180	<190	<200	<210	<220	<230	<240	<250	<260	<270	<280	<290	<300	<310	<320	<330	<340	<350	<360				
<10																																					0	0.00	
<20																																					0	0.00	
<30																																					0	0.00	
<40																																					0	0.00	
<50																																					0	0.00	
<60																																					0	0.00	
<70																																					0	0.00	
<80																																					0	0.00	
<90																																					0	0.00	
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<110																																					0	0.00	
<120																																					0	0.00	
<130																																					0	0.00	
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<160																																					0	0.00	
<170																																					0	0.00	
<180																																					0	0.00	
<190																																					0	0.00	
<200																																					0	0.00	
<210																																					0	0.00	
<220																																					0	0.00	
<230																																					0	0.00	
<240																									31	11										42	87.50		
<250																									6											6	12.50		
<260																																					0	0.00	
<270																																					0	0.00	
<280																																					0	0.00	
<290																																					0	0.00	
<300																																					0	0.00	
<310																																							

Appendix F

Data Ranges

Data Source	Start Date	End Date	Gaps Greater than 24 Hours
Location 1 Tidal elevation 01/11/20 10	06/01/2011	11	None
Location 1 Currents	01/11/2010 06/01/20	11	None
Location 1 Waves	01/11/2010	06/01/2011	None
Location 2 Tidal elevation 01/11/20 10	18/02/2011	11	None
Location 2 Currents	01/11/2010 21/12/20	11	None
Location 2 Waves	01/11/2010	18/02/2011	None
Location 3 Tidal elevation 01/11/20 10	10/05/2011	11	None
Location 3 Currents	01/11/2010 10/05/20	11	None
Location 3 Waves	01/11/2010	10/05/2011	None
Location 3 Meteorological	25/01/2011 10/05/20	11	None
Rustington 15/07/20	03	12/05/2011	05/08/2003 – 06/08/2003 09/08/2003 – 11/08/2003 20/09/2003 – 22/09/2003 03/12/2003 – 04/12/2003 23/03/2004 – 29/03/2004 10/04/2004 – 15/04/2004 02/05/2004 – 04/05/2004 05/06/2004 – 07/06/2004 02/09/2004 – 08/09/2004 25/03/2005 – 29/03/2005 03/04/2005 – 04/04/2005 23/04/2005 – 25/04/2005 17/05/2005 – 02/06/2005 15/08/2005 – 17/08/2005 31/06/2006 – 03/07/2006 19/11/2007 – 29/11/2007 05/03/2008 – 19/03/2008 27/04/2008 – 02/05/2008 18/07/2008 – 21/07/2008
Seaford 22/01/20	08	31/12/2010	16/05/2008 – 18/05/2008 20/06/2008 – 31/07/2008 15/08/2008 – 14/10/2008 21/04/2009 – 23/04/2009 23/08/2009 – 25/08/2009 15/11/2009 – 16/11/2009
Arun 13/05/20	08	08/11/2010	31/12/2009 – 05/01/2010 26/10/2010 – 29/10/2010
Worthing 14/07/20	10	04/05/2011	None
Newhaven 01/01/19	93	31/07/2010	16/05/1996 – 25/05/1996 29/05/1996 – 01/06/1996 03/06/1996 – 18/06/1996 10/11/1998 – 16/11/1998 20/11/1998 – 25/11/1998 01/12/1998 – 05/12/1998 08/12/1998 – 03/01/1999 11/01/1999 – 19/01/1999 27/01/1999 – 03/03/1999 08/03/1999 – 23/03/1999 28/03/1999 – 02/04/1999 07/04/1999 – 23/04/1999 27/04/1999 – 02/05/1999 05/05/1999 – 06/05/1999 13/07/1999 – 23/07/1999 03/08/1999 – 13/08/1999 17/08/1999 – 08/09/1999 14/09/1999 – 18/09/1999 16/11/1999 – 20/11/1999

			14/12/1999 – 10/01/2000 18/01/2000 – 27/03/2000 28/11/2000 – 03/12/2000 08/12/2000 – 12/12/2000 25/09/2001 – 27/09/2001 22/07/2003 – 30/07/2003 05/02/2006 – 06/02/2006 08/03/2006 – 09/03/2006 05/04/2006 – 06/04/2006 07/02/2007 – 13/02/2007 21/07/2010 – 26/07/2010
Hastings 27/11/20	02	23/02/2011	11/12/2002 – 10/01/2003 15/01/2003 – 30/01/2003 31/05/2003 – 02/06/2003 16/01/2004 – 16/02/2004 23/08/2004 – 17/09/2004 05/10/2004 – 20/10/2004 28/12/2004 – 13/01/2005 19/01/2005 – 26/01/2005 15/02/2005 – 02/03/2005 24/02/2006 – 05/03/2006 11/12/2007 – 12/02/2008
Rampion 1	01/01/2006	28/07/2010	06/09/2006 – 07/09/2006 27/09/2006 – 28/09/2006 13/10/2006 – 14/10/2006 15/10/2006 – 17/10/2006 01/12/2006 – 02/12/2006 28/03/2007 – 29/03/2007 16/07/2009 – 17/07/2009 06/09/2009 – 08/09/2009 26/09/2009 – 29/09/2009 30/06/2010 – 01/07/2010 13/07/2010 – 15/07/2010
Rampion 2	01/01/2006	28/07/2010	06/09/2006 – 07/09/2006 27/09/2006 – 28/09/2006 13/10/2006 – 14/10/2006 15/10/2006 – 17/10/2006 01/12/2006 – 02/12/2006 28/03/2007 – 29/03/2007 16/07/2009 – 17/07/2009 06/09/2009 – 08/09/2009 26/09/2009 – 29/09/2009 30/06/2010 – 01/07/2010 13/07/2010 – 15/07/2010
ALSF AWAC	09/04/2006	09/05/2006	None