

Sandown Pier Wave Gauge

Location

OS: 459964E 83835N
 WGS84: Latitude: 50°65.111'N Longitude: 01°15.316'W

Water Depth

N/A

Instrument Type

Saab WaveRadar Rex

Data Quality

C1(%)	Sample interval
65	20 minutes

Monthly Means

All times GMT

Month	H _s	T _p	T _z	Direction	SST	No. of days
	(m)	(s)	(s)	(°)	(°C)	
January	-	-	-	-	-	-
February	-	-	-	-	-	-
March	-	-	-	-	-	-
April	-	-	-	-	-	-
May	0.33	11.7	3.7	-	-	27
June	0.27	12.3	3.4	-	-	30
July	0.27	12.7	3.5	-	-	31
August	0.25	11.4	3.6	-	-	31
September	0.33	11.8	3.6	-	-	30
October	0.47	9.2	3.8	-	-	30
November	0.49	10.1	3.9	-	-	30
December	0.52	10.5	4.1	-	-	31

Tables and plots of these values, together with the minimum and maximum values and the standard deviation are available on the website.

Highest storm events in 2006									
Date/Time	H _s	T _p	T _z	Dir.	Water level elevation* (OD)	Tidal stage (hours re. HW)	Tidal range (m)	Tidal surge* (m)	Max. surge* (m)
03-Dec-2006 06:40	1.82	9.3	5.2	-	1.30	HW - 3	3.1	0.70	0.72
29-Dec-2006 21:20	1.71	8.6	5.4	-	-0.56	HW + 6	2.3	-0.04	0.22
17-Nov-2006 12:00	1.54	8.4	5.3	-	0.66	HW + 3	2.3	0.33	0.52
07-Dec-2006 04:00	1.50	8.7	5.2	-	0.09	HW + 4	3.1	0.48	0.52

* Tidal information is obtained from the nearest recording tide gauge (the wave radar also provides tidal data). The surge shown is the residual at the time of the highest H_s. The maximum tidal surge is the largest positive surge during the storm event.

Year	Annual H_s exceedance* (m)						Annual Maximum H_s (m)	
	0.05%	0.5%	1%	2%	5%	10%	Date	A_{max}
2006	1.66	1.36	1.26	1.13	0.87	0.66	03-Dec-2006 06:40	1.82

* i.e. 5 % of the H_s values measured in 2006 exceeded 0.87m

Distribution plots

The distribution of wave parameters are shown in the accompanying graphs of:

- Percentage of occurrence of H_s , T_p , T_z and Direction for 2006
- Incidence of storms during 2006. Storm events are defined using the Peaks-over-Threshold method. The highest H_s of each storm event is shown.
- Annual time series of H_s (red line is storm waves threshold)

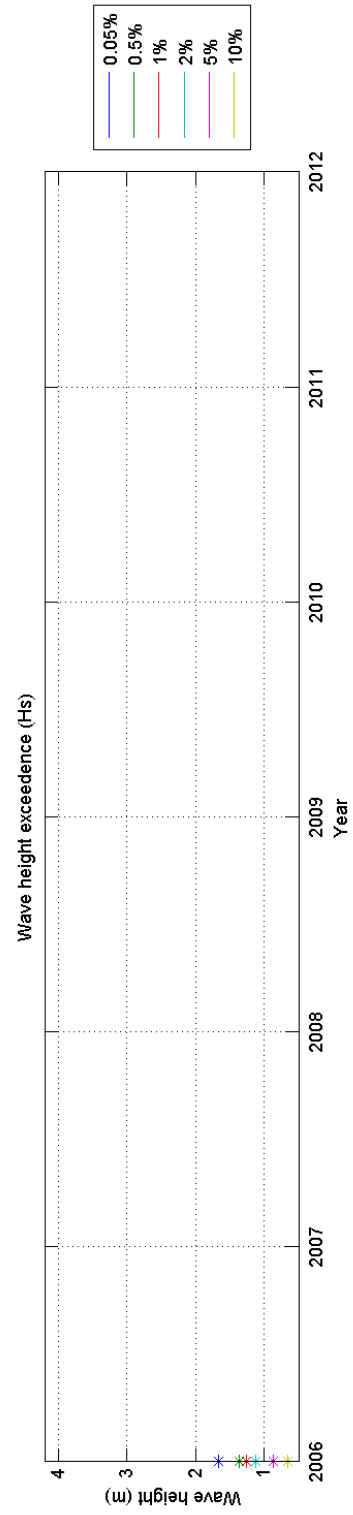
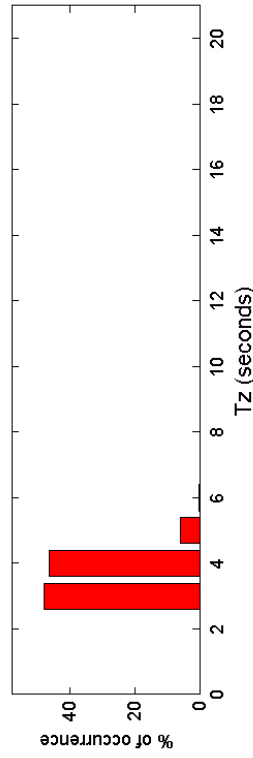
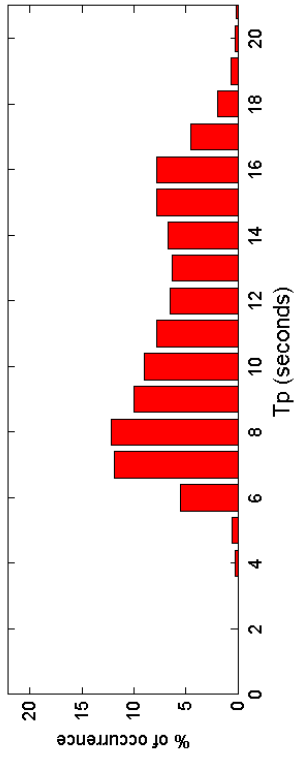
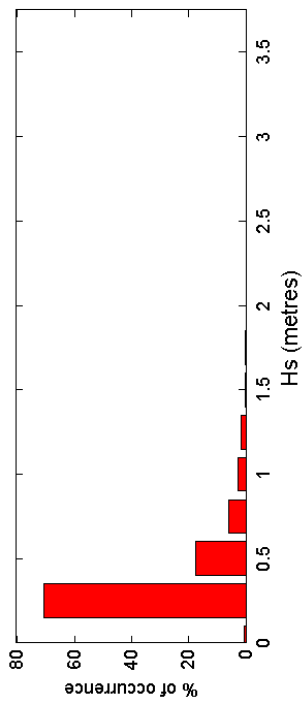
General

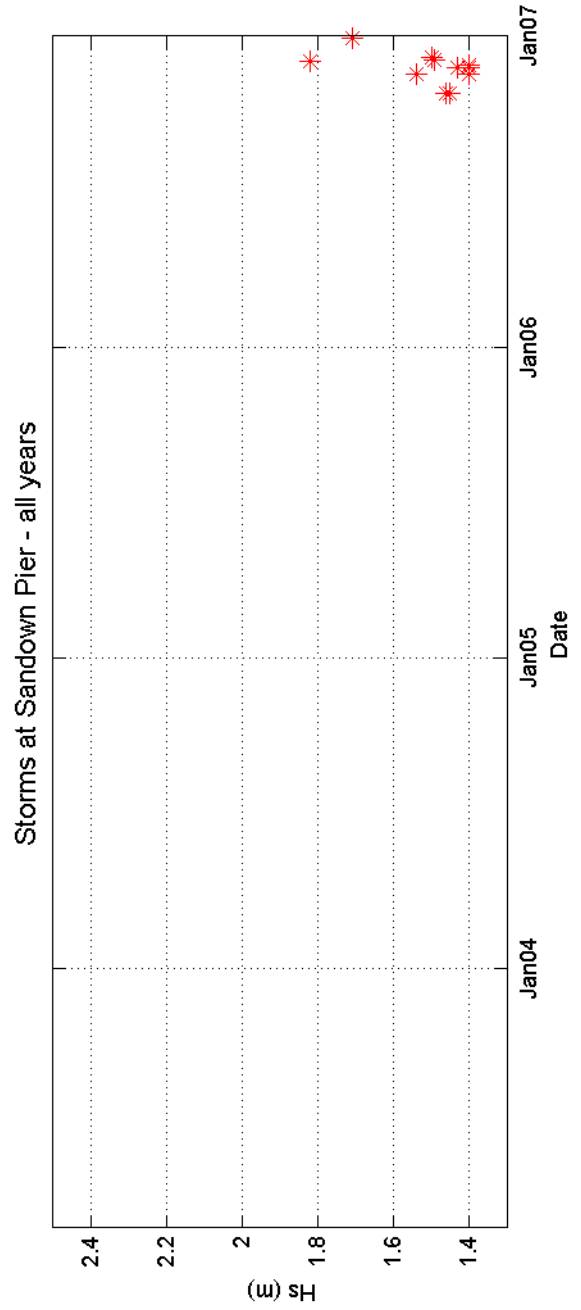
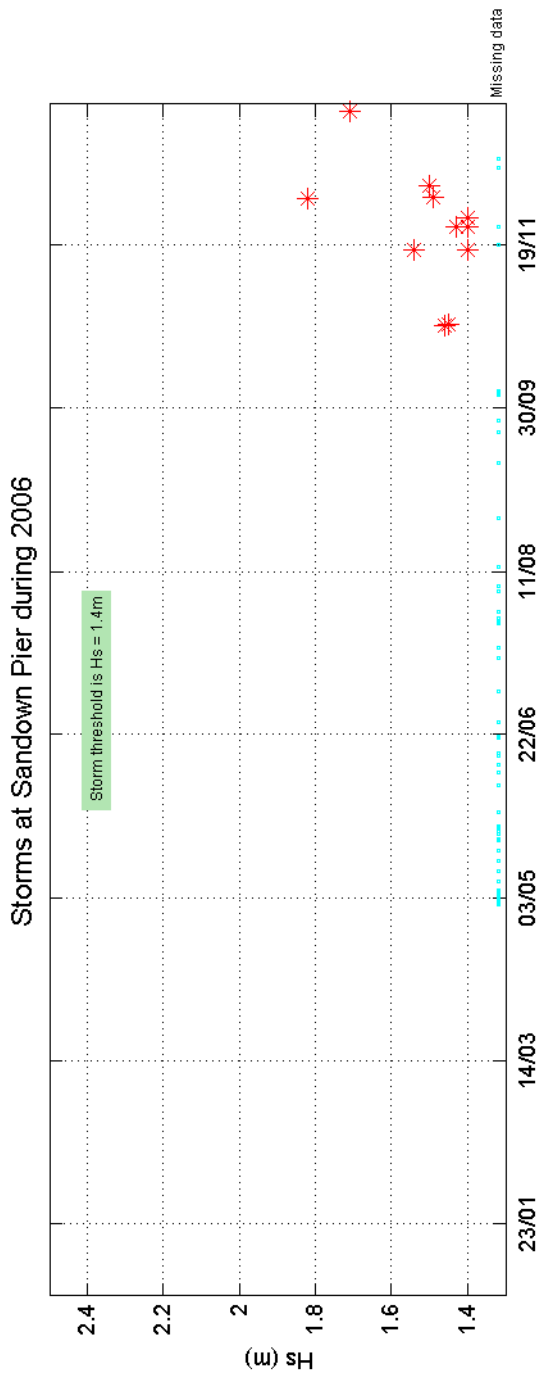
The wave radar was deployed on 04 May 2006.

Acknowledgements

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Sandown Pier - Significant Wave Height (Hs) during 2006

