

Deal Pier Wave Recorder

Location

OS: 638145E 152700N
 WGS84: Latitude: 51° 13' 25.652"N Longitude: 01° 24' 33.332"E

Water Depth

N/A

Instrument Type

Saab WaveRadar Rex

Data Quality

C1(%)	Sample interval
26	20 minutes

Monthly Means

Deal Pier 2005							
Month	H _s	H _{max}	T _p	T _z	Direction	SST	No. of days
	(m)	(m)	(s)	(s)	(°)	(°C)	
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-
September	0.284	-	-	3.5	-	-	15
October	0.336	-	-	3.5	-	-	27
November	0.356	-	-	3.9	-	-	24
December	0.370	-	-	3.8	-	-	30

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 2005									
Date/Time	H _s	T _p	T _z	Dir.	Water level elevation [*] (OD)	Tidal stage	Tidal range (m)	Tidal surge* (m)	Max. surge* (m)
30-Dec-2005 12:20	1.159	-	4.4	-	1.032	HW +3	4.5	-0.47	-0.63
16-Sep-2005 08:40	1.183	-	4.8	-	2.579	HW	4.0	0.26	0.68
03-Dec-2005 01:40	1.137	-	4.6	-	1.388	HW +1	5.2	-0.34	-0.47

* Tidal information is obtained from the nearest recording tide gauge (the 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)	
	0.5%	1%	2%	5%	10%	Date	A_{max}
2005	1.00	0.88	0.79	0.66	0.57	30-Dec-2005 12:20	1.194
2006							
2007							

i.e. 2% of the H_s values measured in 2005 exceeded 0.79m

Distribution plots

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

- Percentage of occurrence of H_s , T_p , and T_z
- Incidence of storm waves for 2005. 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)

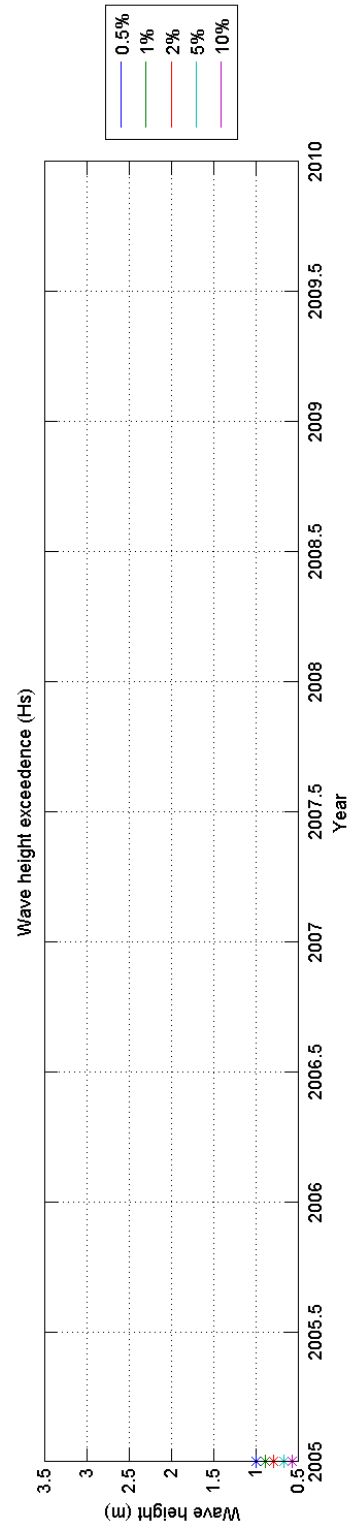
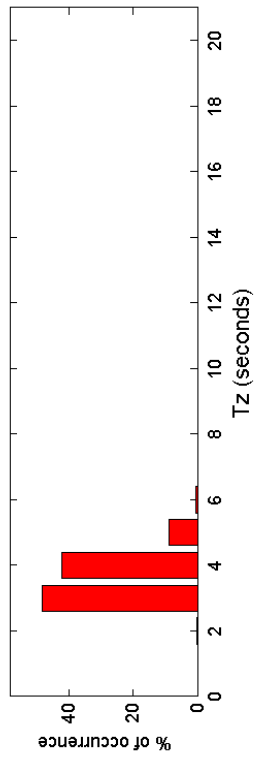
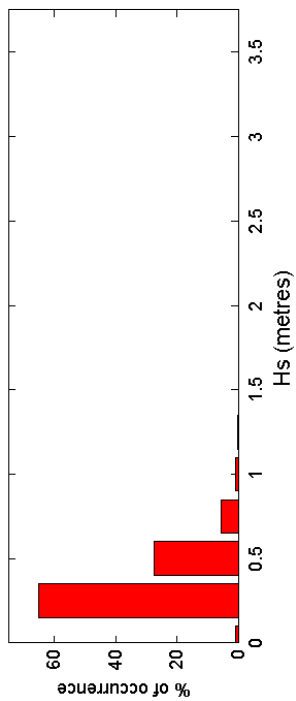
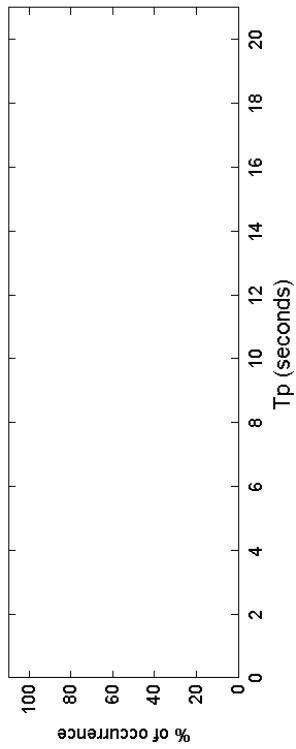
General

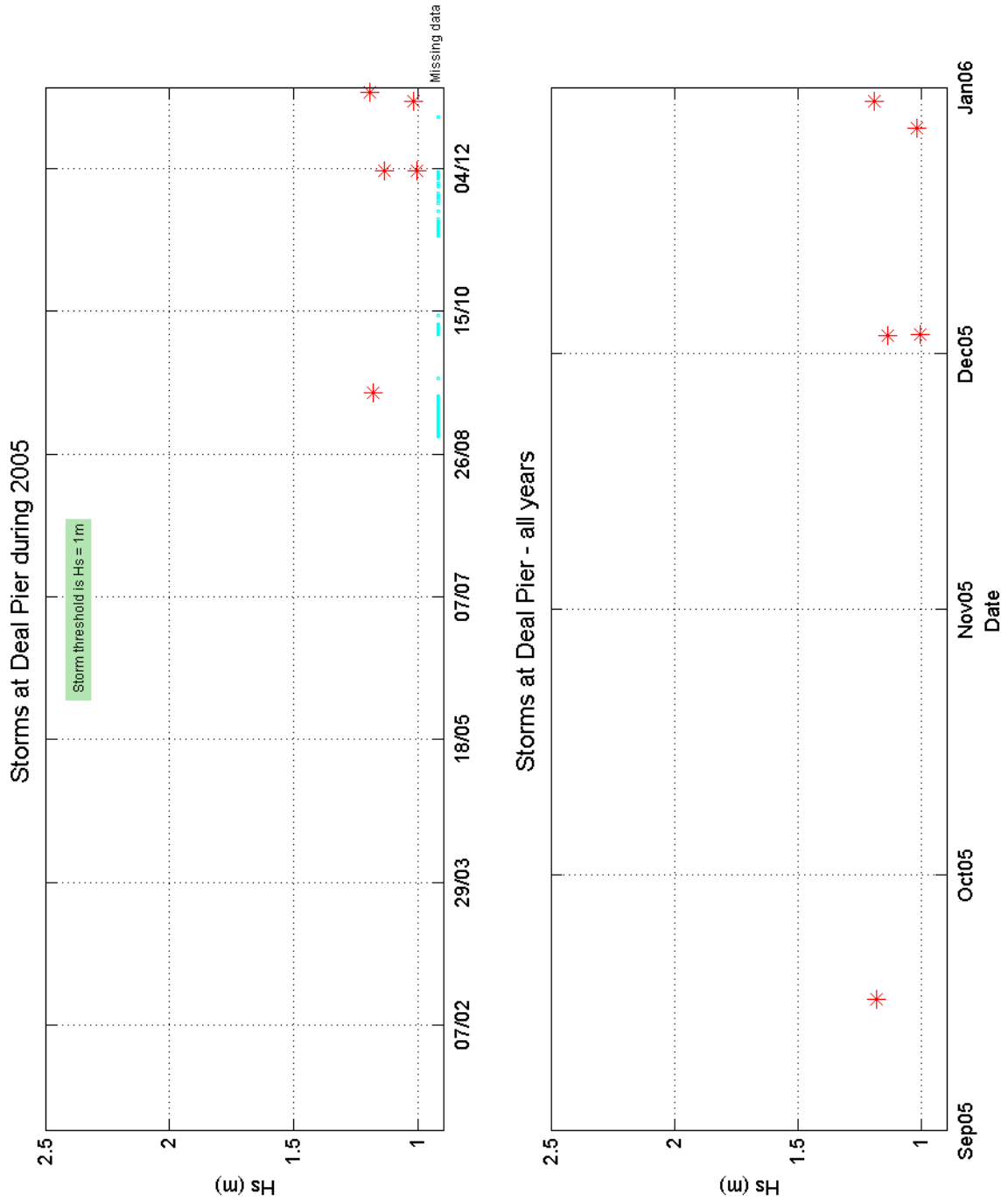
The wave radar was deployed on 25 August 2005 and therefore statistics are based on only 3 months worth of measurements.

Acknowledgements

TASK2000 tidal prediction software was kindly provided by Proudman Oceanographic Laboratory.

Deal Pier 2005





Deal Pier - Significant wave height (Hs) during 2005

