

## Hayling Island Directional WaveRider Buoy

### Location

OS: 473504E 93216N  
 WGS84: Latitude: 50°43.9936'N Longitude: 00°57.5557'W

### Water Depth

10.2m CD

### Instrument Type

Datawell Directional WaveRider Buoy Mk III

### Data Quality

C1(%)	Sample interval
47	30 minutes

### Annual Means

Hayling Island 2003							
Month	H <sub>s</sub>	H <sub>max</sub>	T <sub>p</sub>	T <sub>m</sub>	Direction	SST	No. of days
	(m)	(m)	(s)	(s)	(°)	(°C)	
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	0.575	0.894	5.10	3.20	194	19.0	21
August	0.400	0.627	5.00	3.00	183	20.0	30
September	0.416	0.638	7.00	3.30	186	18.4	30
October	0.653	1.015	5.50	3.30	183	14.3	31
November	0.901	1.384	9.50	4.20	176	11.6	30
December	0.798	1.228	6.90	3.80	182	9.5	31

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

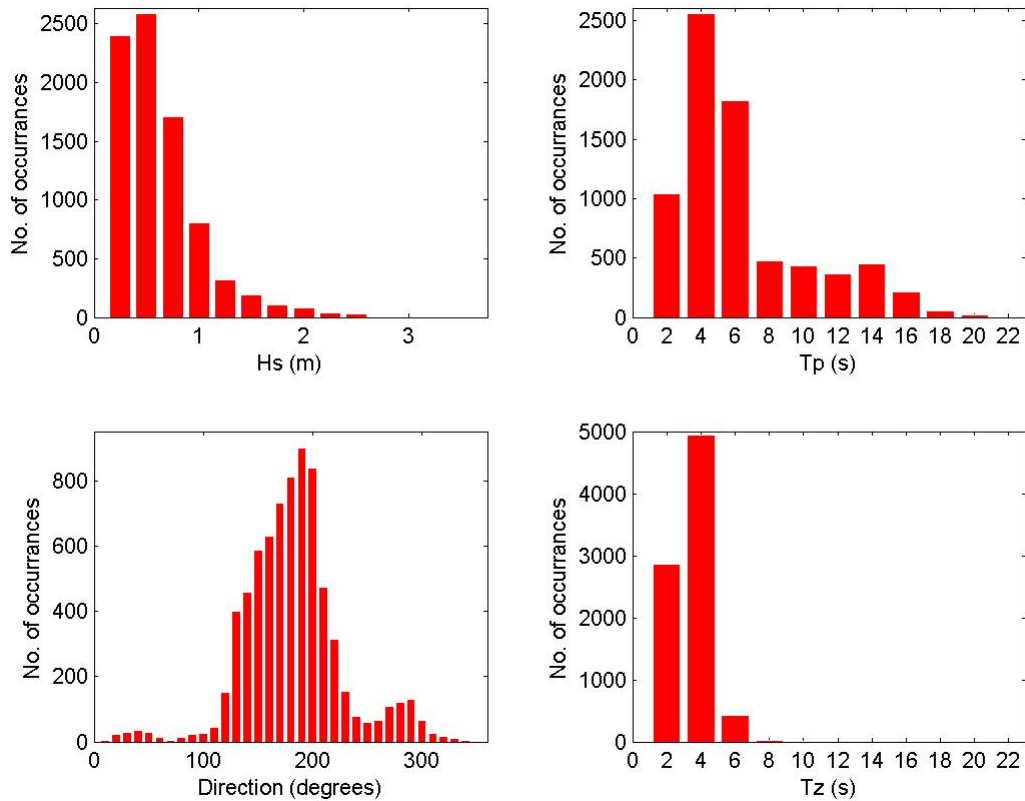
5 Highest storm events in 2003	
Date/Time	H <sub>s</sub> (m)
29-Nov-2003 10:00	2.68
26-Nov-2003 07:30	2.66
14-Nov-2003 01:30	2.64
20-Dec-2003 13:00	2.53
02-Nov-2003 09:30	2.47

Year	Annual H <sub>s</sub> exceedance* (m)				
	0.5%	1%	2%	5%	10%
2003	2.33	2.11	1.85	1.41	1.1
2004					
2005					

\* i.e. 5 % of the H<sub>s</sub> values measured in 2003 exceeded 1.41m

Distribution plots

## Hayling Island (July to December 2003)

General

The buoy was first deployed on 10 July 2003.

Note that the wave directions recorded by the Datawell Directional WaveRider Mk III were found to be contaminated by a significant tidal signature, compounded by the on-board data processing. The buoy received new electronics to fix this problem in February 2004; wave directions measured during 2003 should be regarded with caution.