

Sandown Bay Directional WaveRider Buoy

Location

OS: 461654E 83776N
 WGS84: Latitude: 50°39.0240'N Longitude: 01°07.7555'W

Water Depth

10.7m CD

Instrument Type

Datawell Directional WaveRider Buoy Mk III

Data Quality

C1(%)	Sample interval
46	30 minutes

Annual Means

Sandown Bay 2003							
Month	H _s (m)	H _{max} (m)	T _p (s)	T _m (s)	Direction (°)	SST (°C)	No. of days
January	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	0.463	0.722	4.8	3.3	180	18.7	14
August	0.382	0.604	5.1	3.4	153	19.8	31
September	0.334	0.528	5.4	3.4	158	18.5	30
October	0.680	1.087	5.7	3.9	151	14.8	31
November	0.699	1.097	6.6	3.9	164	11.9	30
December	0.696	1.105	5.6	3.8	161	9.9	30

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

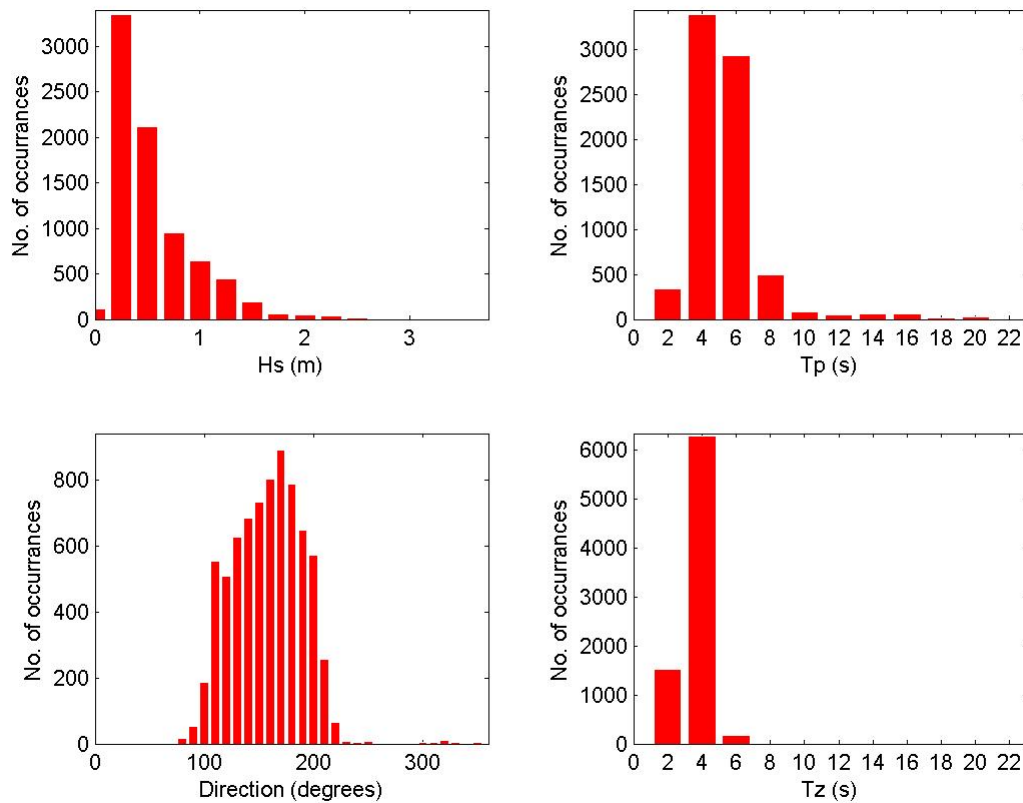
5 Highest storm events in 2003	
Date/Time	H _s (m)
29-Nov-2003 09:00	2.79
22-Oct-2003 20:30	2.62
14-Nov-2003 03:00	2.59
20-Dec-2003 11:30	2.55
29-Dec-2003 16:30	2.38

Year	Annual H _s exceedance* (m)				
	0.5%	1%	2%	5%	10%
2003	2.21	2.02	1.65	1.35	1.13
2004					
2005					

* i.e. 5 % of the H_s values measured in 2003 exceeded 1.35m

Distribution plots

Sandown Bay (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.