Boscombe Directional WaveRider Buoy

Location
OS: 411413E 90302N
WGS84: *Latitude:* 50° 42.681'N *Longitude:* 001° 50.376'W

Water Depth
10.4m CD

Instrument Type
Datawell Directional WaveRider Buoy Mk III

Data Quality

C1(%)	Sample interval
46	30 minutes

Annual Means

Boscombe 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	0.547	0.848	4.9	3.3	186	19.0	18
August	0.364	0.571	5.3	3.4	170	19.9	27
September	0.340	0.526	6.1	3.5	174	18.5	30
October	0.545	0.859	6.0	4.0	163	14.5	31
November	0.725	1.126	8.4	4.3	176	12.1	29
December	0.646	1.035	6.6	4.1	170	9.4	31

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

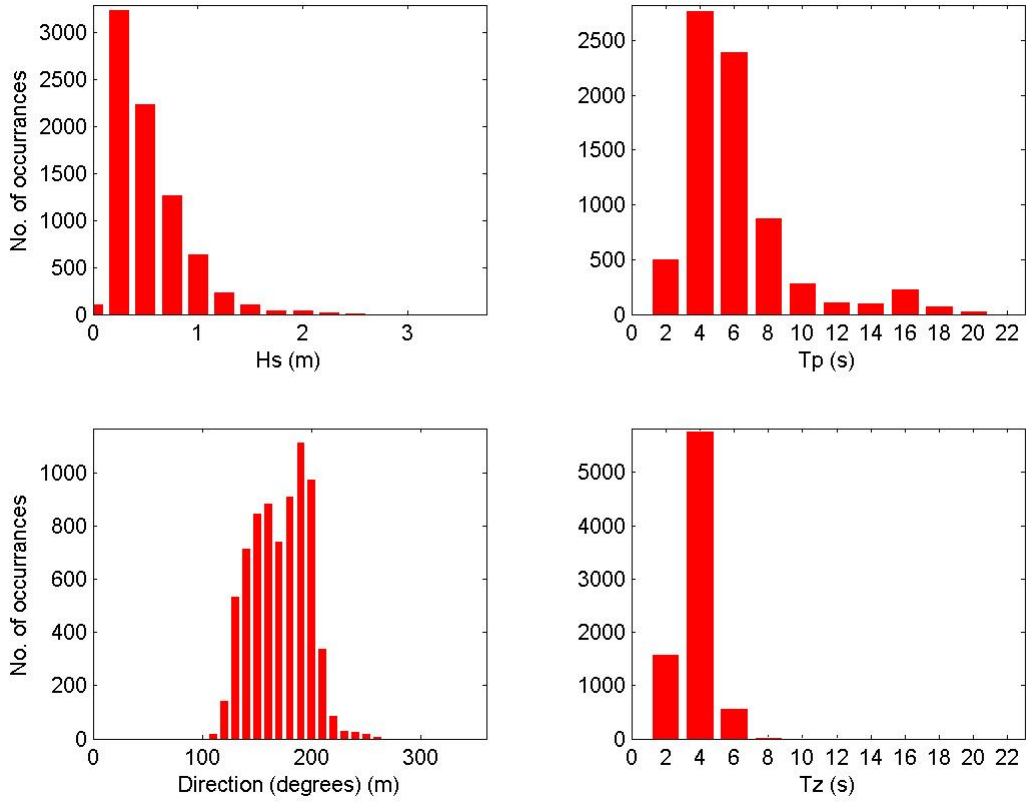
5 Highest storm events in 2003	
Date/Time	Hs (m)
14-Nov-2003 00:00	2.79
29-Nov-2003 12:00	2.75
22-Oct-2003 16:30	2.68
20-Dec-2003 12:00	2.57
29-Dec-2003 17:00	2.35

Year	Annual H_s exceedance* (m)				
	0.5%	1%	2%	5%	10%
2003	2.17	1.95	1.53	1.19	0.98
2004					
2005					

** i.e. 5 % of the H_s values measured in 2003 exceeded 1.19m*

Distribution plots

Boscombe (July to December 2003)



General

The buoy was first deployed on 10 July 2003. It was hit by a boat in heavy fog on 10 December, recovered and re-deployed on 15 December 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.