

Pevensey Bay Directional WaveRider Buoy

Location

OS: 569358E 99118N
 WGS84: Latitude: 50°47'0.2"N Longitude: 00°25'1.5"E

Water Depth

9.8m CD

Instrument Type

Datawell Directional WaveRider Buoy Mk III

Data Quality

C1(%)	Sample interval
39	30 minutes

Annual Means

Pevensey Bay 2003							
Month	H _s	H _{max}	T _p	T _m	Direction	SST	No. of days
	(m)	(m)	(s)	(s)	(°)	(°C)	
January							
February							
March							
April							
May							
June							
July	0.571	0.889	5.0	3.3	198	18.4	18
August	0.472	0.743	4.4	3.2	148	19.4	28
September	0.451	0.701	5.2	3.3	169	18.3	30
October	0.853	1.353	5.1	3.6	159	14.8	30
November	1.142	1.826	6.4	4.1	188	12.4	17
December	0.936	1.474	5.5	3.8	165	10.6	18

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

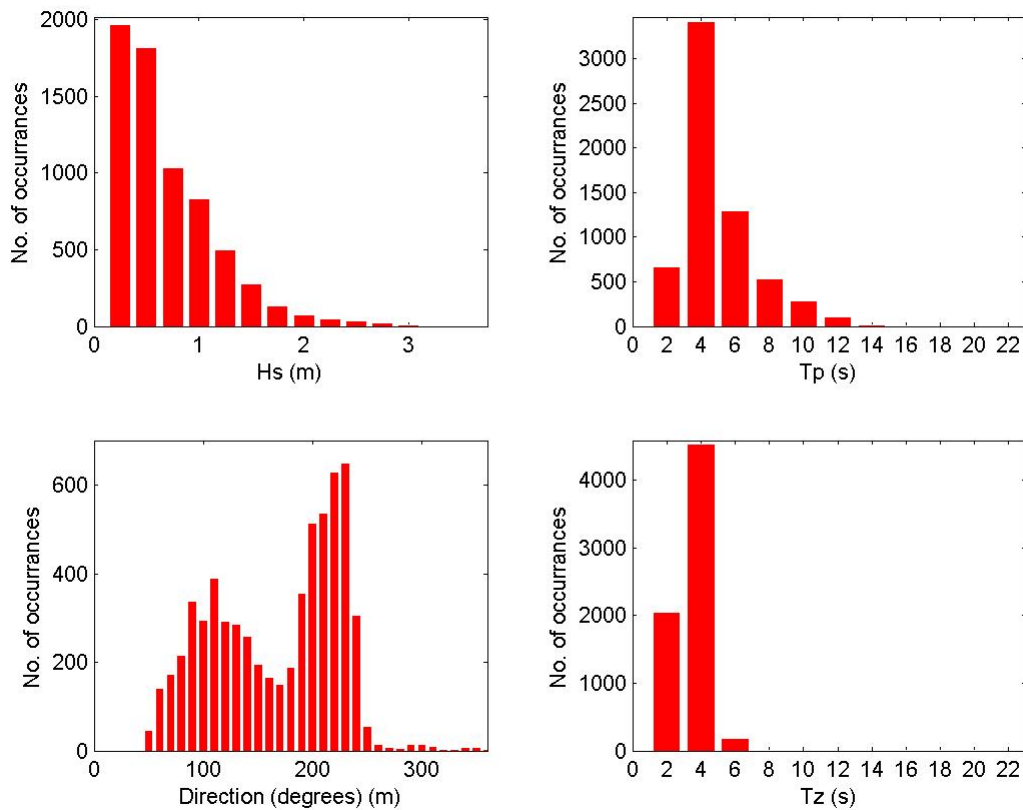
5 Highest storm events in 2003	
Date/Time	H _s (m)
02-Nov-2003 11:30	4.18
29-Nov-2003 13:00	3.45
26-Nov-2003 10:00	3.11
03-Nov-2003 07:00	2.75
25-Nov-2003 23:30	2.69

Year	Annual H _s exceedance* (m)				
	0.5%	1%	2%	5%	10%
2003	2.66	2.41	2.08	1.61	1.34
2004					
2005					

* i.e. 5 % of the H_s values measured in 2003 exceeded 1.61m

Distribution plots

Pevensy Bay (July to December 2003)

General

The buoy was first deployed on 8 July 2003. At approximately 03:00 on 18 December 2003 the buoy moved off station and was recovered on the beach nearby.

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.