

***In Situ* Data for the JERICHO Programme
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Introduction

This note briefly details the *in situ* wave and wind data set compiled for use in the JERICHO project. All data are currently held on line at Southampton Oceanography Centre. Refer to David Cotton for further information. A spreadsheet accompanies this note, providing location and data details.

Locations

23 locations were selected, at sites in the South Western approaches to the UK, off the South Wales and Southern English coasts, and at a range of latitudes in the North Sea. The sites were chosen to give a spread of locations (open ocean, coastal, shallow water) for comparison with satellite data, as well as inshore information to aid shallow water wave modelling. With the exception of some locally held data (SWALES at SOC, and Holderness at POL), a requirement on the data was that they were continuous over a period of a year or more. Note that the location co-ordinates given in the spreadsheets should be checked with information held within the data files. Buoys do not necessarily remain in the same place, and data sources can sometimes provide conflicting information.

Data Sources and Types

Data have been acquired from seven different sources, and so were made available in a variety of formats. The formats are not fully described here, but are available on request. The seven data sources are: the UK Meteorological Office (6 open ocean buoys, 1 inshore buoy, 1 platform mounted automatic weather station, and 4 light vessels), SeaData (7 data sets - mostly held on behalf of offshore operators), Rijkswaterstaat (2 sites off the Dutch coast), the British Oceanographic Data Centre (3 light vessels, and one bottom pressure recorder), the Environment Agency (one buoy/tower data set), Proudman Oceanographic Laboratory (1 set of 3 closely deployed buoys), and Southampton Oceanography Centre (1 buoy data set).

SeaData and UKMO charged for personnel time in data retrieval (£1500 and £500 respectively), but all data owners made their data available at no further cost. We wish to acknowledge their generosity in this respect.



Name	lat (N)	lon (E)	type	parameters	time res.	owner	go between	data at SOC	Depth (m)	No of files	Format	Comments
1 K3	53.5833	-15.55	UKMO OO buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	01/96-12/97	> 3000	1	UKMO ascii fixed width columns	
								12/91-12/97		yearly/monthly	UKMO report format	
2 K2	51.0167	-13.35	UKMO OO buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	01/96-12/97	-2000	1	UKMO ascii fixed width columns	
								12/91-12/97		yearly/monthly	UKMO report format	
3 K1	48.7167	-12.4333	UKMO OO buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	01/96-12/97	2000-2500	1	UKMO ascii fixed width columns	
								12/91-12/97		yearly/monthly	UKMO report format	
4 Seven Stones	50.063	-6.073	LV SBWR	Hs, Tz +	3 hourly	BODC	BODC	02/82-12/85	60	8	bodc request format	
			LV SBWR	Hs, Tz,U,dd	hourly	UKMO	UKMO	01/95-12/97		1	UKMO ascii fixed width columns	
5 St Gowan	51.5085	-4.9967	LV SBWR	Hs, Tz +	3 hourly	BODC	BODC	08/75-12/83		7	bodc request format	
	51.6167	-4.7333	UKMO OO Buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	09/92-12/97	49	1	UKMO ascii fixed width columns	
6 Channel LV	49.9067	-2.9167	LV SBWR	Hs, Tz +	3 hourly	BODC	BODC	09/79-12/85	65.8	4	bodc request format	
			LV SBWR	Hs, Tz, U, dd	hourly	UKMO	UKMO	06/89-12/97		1	UKMO ascii fixed width columns	
			LV SBWR					03/86-12/88		22 (30 days)	ascii	
7 SWALES	51.5	-4.75	waverider	Hs, Tz, U, dd	20 mins	SOC	SOC	10/93-01/94	40-50		pstar	
8 Lyme Bay	50.5	-2.8633	UKMO inshore	Hs, Tz,U,dd		UKMO	UKMO	07/83-12/97	10	1	UKMO ascii fixed width columns	
	50.6702	-2.6667	Bot P sensor	1-D spectra	90 mins	BODC	BODC	11/83-04/88		71	bodc axf format	
9 Greenwich	50.24	0	LV SBWR	Hs, Tz,U,dd	hourly	UKMO	UKMO	07/93-12/97		1	UKMO ascii fixed width columns	
10 Sandette	51.06	1.48	LV SBWR	Hs, Tz,U,dd	hourly	UKMO	UKMO	07/93-12/97		1	UKMO ascii fixed width columns	
11a IJmuiden	52.4631	4.5583	anemom	U	hourly	Rijkw'staat	Rijkw'staat	1981-96		1	Rw ascii (single parameter)	
11b IJmuiden sp	52.5583	4.0583	waverider	Hm0, Tm02	3hourly	Rijkw'staat	Rijkw'staat	1981 - 86		2	Rw ascii (single parameter)	
			WAVEC buoy	Hm0, Tm02	hourly	Rijkw'staat	Rijkw'staat	1987-96		2	Rw ascii (single parameter)	
12a Leman	53.1	2.2	wavestaff/laser	Hs, Tz	hr-3hr	AMOCO	seadata	1972-93		3	seadata ascii fixed width	
	53.1	2.2	anemom	U, dd	hr-3hr	AMOCO	seadata	1972-93		3	seadata ascii fixed width	
12b Leman AWS	53.06	2.12	AWS	Hs, Tz,U,dd	hourly	UKMO	UKMO	07/83-12/97			UKMO ascii fixed width columns	
13 BoyGrift	53.4917	0.3868	buoy	Hs, Hmax, Tz, Tpk	3 hourly	EA	EA	04/92-12/95		daily wave files	EA ascii	
	53.2903	0.3203	tower	U, dd	3 hourly	EA	EA	04/92-05/96		daily met files	EA ascii	
14 K13	53.2178	3.2203	anemom	U	hourly	Rijkw'staat	Rijkw'staat	1981-96		1	Rw ascii (single parameter)	
	53.2178	3.2203	waverider	Hm0, Tm02	3 hourly	Rijkw'staat	Rijkw'staat	1981-87		2	Rw ascii (single parameter)	
	53.2	3.2	WAVEC buoy	Hm0, Tm02	hourly	Rijkw'staat	Rijkw'staat	1987-96		2	Rw ascii (single parameter)	
15 W Sole	53.7	1.15	wavestaff	Hs, Tz		BP	seadata	1972-90		3	seadata ascii fixed width	
			anemom	U, dd				1973-91		3	seadata ascii fixed width	
16 Villages	54.0333	0.1167	laser	Hs, Tz			seadata	1988-90		3	seadata ascii fixed width	
			anemom	U, dd				1988-90		3	seadata ascii fixed width	
17 K17	55.3333	2.3333	UKMO OO buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	01/96-12/97		1	UKMO ascii fixed width columns	
								07/95-12/97		yearly/monthly	UKMO report format	
18 Ekofisk	56.5472	3.2133	laser/buoy/radar	Hs, Tz		Philips	Seadata	1980-96		3	seadata ascii fixed width	buoy 1.2 nm W
	56.5472	3.2133	anemom(85m)	U, dd				1982-96		3	seadata ascii fixed width	
19 K16	57	0.45	UKMO OO buoy	Hs, Tz, U, dd	hourly	UKMO	UKMO	01/96-12/97		1	UKMO ascii fixed width columns	
								08/95-12/97		yearly/monthly	UKMO report format	
20 Forties	57.8	0.9	laser	Hs, Tz		BP	Seadata	1985-91		1	seadata ascii fixed width	
			waverider	Hs, Tz		BP	Seadata	1974-94		3	seadata ascii fixed width	
			wavestaff	Hs, Tz		BP	Seadata	1976-95		3	seadata ascii fixed width	
			anemom	U, dd		BP	Seadata	1974-95		3	seadata ascii fixed width	
21 Frigg	59.9	2.07	various	Hs, Tz		Philips	Seadata	1979-82				
			various	Hs,Tz, wave dirn		Philips	Seadata	1983-88				
			various.anemom	Hs,Tz,U, dd		Philips	Seadata	1992-98		3	seadata ascii fixed width	
22 N North Sea (N.Corn Brent, Statfjord)	61.2	1.1	various	Hs, Tz, Wave Dn, U, dd		Shell	Seadata	1976-97		4	seadata ascii fixed width	
23 Holderness	53.93	0.0333	buoys	Hs, Tz, var spect.	30 mins	POL	POL	winter 94/95 winter 95/96		3	POL ascii spectra summary info	
										2	POL ascii spectra summary info	