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DIRECTORATE OF FISHERIES RESEARCH

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No. 88

Ministry of Agriculture, Fisheries and Food,
current meter data inventory, 1984-86

S. R. JONES

LOWESTOFT, 1988

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Introduction

This is the eighth inventory of current meter data obtained from exercises carried out by the Lowestoft Laboratory of the Ministry of Agriculture, Fisheries and Food (MAFF); it covers the years 1984 to 1986. Meters deployed in the North-east Atlantic during 1986, but not due for recovery until 1987, will be included in a later inventory.

MAFF Fisheries Research Technical Reports Nos. 4, 7, 15, 38, 54, 65 and 80 are inventories of current meter data covering the years 1968-1983 (Baxter and Bedwell, 1972; Bedwell, 1973, Bedwell *et al.*, 1975; Medler, 1977; Jones, 1979, 1982, 1985).

A description of the current meter mooring used in shelf seas is given in Baxter and Bedwell (1972). The processing of data recorded by the instruments is described in Bedwell (1973). A diagrammatic representation of the mooring arrangement used in the NE Atlantic is given in Medler *et al.* (1984). This inventory comprises Table 1 which summarizes the current meter exercise on the shelf, Tables 2-8 which detail the data obtained from all exercises, and Figures 1-5 which show the locations of the moorings referred to.

In the tables, a 'P' or 'T' in the 'Notes' indicates that the meter was fitted with a pressure (P) or temperature (T) sensor. The type of current meter used is shown in a note at the foot of each table. The recording interval is normally 10 min in the shelf seas and 1 h in the deep ocean. The tables give the length of good data recorded by each meter; a note indicates why data was less than expected in particular cases. For the semi-permanent station e.g. Sellafield (Table 4), the geographic position is the nominal one, with slight differences in position and water depth from deployment to deployment; the variation about this position is 0.7'N-S and 0.8'E-W. The mean spring tidal range shown is taken from the Admiralty Co-tidal and Co-range chart No. 5058 (Great Britain - Hydrographer of the Navy, 1974).

Data availability

The Marine Information and Advisory Service (MIAS) was set up to co-ordinate the archiving of all UK oceanographic data. Data from MAFF moored current meters are supplied to MIAS on a routine basis. Data collected in any one year are not freely available to the scientific and commercial community via MIAS until a further three years have elapsed. Hence at 1 January 1986, data collected by MAFF in 1982 came into general circulation.

Data are available from MIAS in a variety of standard formats to suit customer's requirements. Enquiries should be made to MIAS, Bidston Observatory, Birkenhead, Merseyside, L43 7RA. Enquiries about MAFF data which is not in circulation should be made to MAFF, Fisheries laboratory, Lowestoft, Suffolk, NR33 0HT.

The Fisheries Research Data Report Series will provide detailed

presentations of results in the form of plots and tabulation from selected moored current meter deployments. Those published to date (Medler *et al.*, 1983, 1984, 1985; Norris, 1985 and Norris and MacDougall, 1986) are detailed in the references.

Data return statistics

Table 1 gives the statistics relating to the scale of the exercises, losses and data returns for moorings in shelf seas. It follows similar tables in previous inventories.

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Table 1 Basic data referring to moored current meter exercises on the shelf during 1984-86

Table 1 Basic data referring to moored current meter data								
Exercise	Limits of duration (days)	Mean duration (days)	No. of rigs laid	No. of meters used	No. of meters lost	% loss incurred	Good data	
							Days	% return
Selsey Bill								
14.9.84-1.10.84	17	17	1	2	0	0	34	100
28.4.85-8.6.85	41	41	1	2	0	0	46	56
North Channel								
A 25.3.85-22.4.85	28	28	1	2	0	0	27	48
C 25.3.85-22.4.85	28	28	1	2	0	0	56	100
D 24.3.85-12.6.85	4-49	26	3	6	0	0	95	61
E 23.6.84-12.6.85	12-75	41	4	8	3	37	94	29
F 24.6.84-11.6.85	11-75	41	4	8	0	0	164	50
G 24.6.84-11.6.85	10-100	44	5	10	2	20	305	69
H 25.3.85-11.6.85	28-48	38	2	4	0	0	152	100
I 24.3.85-11.6.85	29-48	38	2	4	0	0	122	80
J 28.3.85-22.4.85	25	25	1	2	0	0	50	100
K 28.3.85-22.4.85	25	25	1	2	1	50	9	18
L 28.3.85-22.4.85	25	25	1	2	1	50	2	4
Sellafield								
20.1.84-12.3.85	24-127	83	5	5	1	20	56	13
12.3.85-29.1.86	22-47	32	10	10	1	10	154	48
29.1.86-14.12.86	26-87	40	8	8	1	12	174	54
NE Irish Sea								
M 26.1.86-13.11.86	18-76	42	7	14	2	14	302	52
N 26.1.86- 6.6.86	56-75	65	2	4	1	25	36	13
P 26.1.86-14.11.86	19-77	42	7	14	3	21	268	46
Q 26.1.86-16.11.86	21-77	42	7	14	0	0	288	49
R 26.1.86-13.11.86	26-77	48	6	12	2	17	275	48
S 11.4.86-13.11.86	25-56	43	5	10	1	10	273	63
T 26.1.86- 13.4.86	77	77	1	2	1	50	2	1
V 11.4.86-20.11.86	39-66	50	4	8	1	12	232	58
W 11.4.86- 3.6.86	53	53	1	2	1	50	21	20
Y 11.4.86-20.11.86	22-66	44	5	10	5	50	118	11

Table 2 Selsey Bill, September 1984 and April 1985 (Figure 1)

Station	Water depth (m)	Tidal range (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
14 September-1 October 1984									
50°37.1'N	28	4.5	70	15	17	9	50	0	
00°47.0'W			71	10	17	9	50	0	
28 April-8 June 1985									
50°37.2'N	33	4.5	696	26	23	11	40	0	} Both meters fouled by weed
00°46.0'W			999	15	20	19	30	0	

*September 1984 – Plessey 9021; April 1985 – Aanderaa RCM4.

Table 3 North Channel, June 1984-June 1985 (Figure 2)

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
Station A	Tidal range = 3.0 m								
85A6 54°43.1'N 05°11.9'W	25.3.85	182	77	130	27	13	50	0	
	22.4.85		599 ⁺	5	—	—	—	—	No speeds recorded
Station C	Tidal range = 3.3 m								
85C6 54°42.1'N 05°13.8'W	25.3.85	180	65	137	28	5	20	0	
	22.4.85		444 ⁺	5	28	4	55	+5	(T)
Station D	Tidal range = 3.0 m								
85D5 54°44.0'N 05°33.1'W	24.3.85	53	987 ^o	27.5	—	—	—	—	Meter failed
	28.3.85		696 ⁺	25	4	4	20	0	(T)
85D6 54°44.0'N 05°33.1'W	28.3.85	48	843 ^o	35	2	3	20	0	Meter failed
	22.4.85		696 ⁺	5	24	22	59	+1	(T)
85D7 54°43.9'N 05°32.9'W	24.4.85	48	48	35	28	9	0	0	
	12.6.85		852 ⁺	5	37	7	01	−1	(T)
Station E	Tidal range = 3.5m								
84E1 54°44.8'N 05°08.0'W	23.6.84	135	69	50	11	14	10	0	(T)
	5.7.84		73	10	11	14	10	0	(T)
84E4 54°44.9'N 05°07.7'W	17.11.84	120	70	45	—	—	—	—	Meter lost
	1.2.85		71	5	—	—	—	—	Meter lost
85E6 54°45.0'N 05°08.3'W	25.3.85	133	72	83	27	08	52	−2	(T)
	22.4.85		852 ⁺	5	27	09	05	−5	(T)

Table 3 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
85E7	24.4.85	124	79	83	—	—	—	—	Meter lost
54°44.9'N 05°07.9'W	12.6.85		331 ⁺	5	18	17	50	0	(T) Rig trawled through
Station F	Tidal range = 3.5 m								
84F1	24.6.84	147	70	60	10	1	10	0	(T)
54°43.9'N 05°11.4'W	4.7.84		71	10	10	1	20	0	(T)
84F4	17.11.84	136	77	55	—	—	—	—	Meter failed
54°44.0'N 05°10.2'W	1.2.85		72	5	—	—	—	—	Meter failed
85F6	25.3.85	135	75	85	26	16	20	0	(T)
54°43.6'N 05°11.1'W	22.4.85		533 ⁺	5	24	20	20	0	(T)
85F7	24.4.85	138	66	85	47	17	20	0	
54°43.5'N 05°11.2'W	11.6.85		933 ⁺	5	47	17	20	0	(T)
Station G	Tidal range = 3.5 m								
84G1	24.6.84	243	77	100	—	—	—	—	Rig collapsed
54°42.2'N 05°12.9'W	4.7.84		76	10	—	—	—	—	Rig collapsed
84G2	5.7.84	248	72	100	99	17	50	—	(T) Rig lost; top meter recovered by trawler. Bottom meter lost.
54°42.5'N 05°12.9'W	16.9.84		78	10	—	—	—	—	
84G3	16.9.84	256	77	100	36	9	50	—	(T) Rig lost: top meter recovered by trawler. Bottom meter lost.
54°42.9'N 05°12.9'W			69	10	—	—	—	—	
85G6	25.3.85	252	45	190	27	10	58	+2	
54°42.7'N			48	62	21	4	59	+1	
05°12.9'W	22.4.85		933 ⁺	5	27	18	49	+1	(T)
85G7	24.4.85	240	74	190	—	—	—	—	Meter failed
54°42.6'N			77	62	47	22	51	-1	
05°12.8'W	11.6.85		444 ⁺	5	47	22	59	+1	(T)
Station H	Tidal range = 3.5 m								
85H6	25.3.85	144	66	92	28	08	19	+1	
54°41.5'N 05°14.8'W	22.4.85		999 ⁺	5	28	08	19	+1	(T)
85H7	24.4.85	148	65	92	48	05	12	+8	
54°41.4'N 05°14.6'W	11.6.85		300 ⁺	5	48	02	20	0	(T)

Table 3 Continued 1985

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
Station I	Tidal range = 3.6 m								
85I6 54° 39.6'N 05° 19.1'W	24.3.85	132	74	79	28	22	59	+ 1	(T)
	22.4.85		331 +	5	28	22	59	+ 1	(T)
85I7 54° 39.6'N 05° 18.9'W	24.4.85	134	45	79	33	14	31	-1	} Rig trawled up (T)
	11.6.85		464 +	5	33	14	30	0	
Station J	Tidal range = 3.6 m								
85J6 54° 38.5'N 05° 03.1'W	28.3.85	106	79	56	24	22	54	+ 6	(T)
	22.4.85		300 +	5	24	22	49	+ 1	(T)
Station K	Tidal range = 3.6 m								
85K6 54° 37.3'N 05° 05.4'W	28.3.85	238	47	188	—	—	—	—	Meter lost
	22.4.85		464 +	5	9	8	50	0	(T) Meter failed
Station L	Tidal range = 3.6 m								
85L6 54° 35.6'N 05° 09.1'W	28.3.85	144	76	94	—	—	—	—	Meter lost
	22.4.85		192 +	5	23	7	19	+ 1	(T) Good record. Two parts

*Meters are all Plessey 9021 unless marked: + = Aanderaa RCM4; ø = Plessey MO21.

Table 4 Sellafeld, 20 January 1984-14 December 1986 (Figure 2)
Position: 54° 24'N 03° 33'W. Water depth: 15 m. Tidal range: 7.2 m.

Period	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
			Days	Hours	Min		
25 20.1.1984 13.2.84	137	9	20	20	0	0	(T)
26 13.2.84- 14.5.84	152	9	—	—	—	—	Meter failed
27 14.5.84- 5.9.84	137	9	35	5	40	—	(T) Rig trawled up
28 5.9.84- 6.11.84	126	9	—	—	—	—	Meter failed
29 6.11.84- 12.3.1985	152	9	—	—	—	—	Meter lost
30 12.3.85- 15.4.85	126	9	16	14	0	—	(T) Tape ran out

Table 4 Continued

Period	Meter No*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
			Days	Hours	Min		
31 15.4.85-14.5.85	987	9	—	—	—	—	Meter fouled
32 14.5.85-16.6.85	886	9	34	22	50	0	(T)
33 16.6.85-22.7.85	987	9	—	—	—	—	Meter fouled
34 22.7.85-29.8.85	671	9	—	—	—	—	Meter failed
35 29.8.85-20.9.85	120	9	21	16	51	-1	(T)
36 20.9.85-14.10.85	220	9	24	2	29	+11	(T)
37 14.10.85-13.11.85	275	9	30	2	0	0	(T)
38 13.11.85-13.12.85	196	9	29	21	30	0	(T)
39 13.12.85-29.1.1986	220	9	—	—	—	—	Meter lost
40 29.1.86-19.3.86	196	9	48	17	50	0	(T)
41 19.3.86-14.4.86	241	9	—	—	—	—	Meter fouled
42 14.4.86-19.5.86	196	9	34	20	0	0	(T)
43 19.5.86-20.6.86	120	9	1	7	30	0	Meter failed
44 20.6.86-24.7.86	12	9	34	3	57	+3	(T)
45 24.7.86-19.8.86	196	9	26	1	20	0	(T)
46 19.8.86-18.9.86	752	9	29	18	40	0	(T)
47 18.9.86-14.12.86	12	9	—	—	—	—	Meter lost

*Meters used were Plessey MO21E deployments 25-30; MO21F 31-47.

Table 5 North-east Irish Sea, 1986 (Figure 2)

Station and position	Deployed/ recovered	Water depth (m)	Meter No*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
Station M	Tidal range = 5.8 m								
86M1 54°35.0'N 04°21.9'W	26.1.86	54	57	39	—	—	—	—	Meter lost
86M2 54°35.0'N 04°21.5'W	12.4.86	53	91	5	—	—	—	—	Meter lost
86M3 54°35.0'N 04°21.9'W	5.6.86	50	696 ⁺	39	41	01	18	+2	(T)
86M4 54°35.0'N 04°21.8'W	16.7.86	46	933 ⁺	39	39	05	00	0	(T)
86M5 54°35.0'N 04°22.0'W	18.9.86	51	241	35	36	07	30	0	(T) Some poor data at end
86M6 54°35.1'N 04°21.8'W	26.10.86	55	120	35	17	18	00	0	(T) No speeds recorded
86M7 54°35.1'N 04°22.1'W	13.11.86		420	4	17	17	50	0	(T) No speeds recorded
Station N	Tidal range = 5.9 m								
86N1 54°30.1'N 04°21.9'W	26.1.86	41	48°	25	—	—	—	—	Meter failed
86N2 54°30.2'N 04°22.0'W	11.4.86	41	66°	25	—	—	—	—	Meter failed
86P1 54°29.5'N 03°41.9'W	13.4.86	23	74°	10	—	—	—	—	Meter lost
86P2 54°29.0'N 03°42.3'W	4.6.86	24	331 ⁺	14	21	15	50	0	(T) Meter failed; in 2 parts
86P3 54°29.5'N 03°41.6'W	17.7.86		752	3	43	01	10	—	(T)
86P4 54°29.4'N 03°41.4'W	23.8.86		340	3	36	20	50	—	(T)

Table 5 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
86P5 54°29.4'N 03°41.1'W	23.8.86 17.9.86	20	331 ⁺ 683	14 4	25	05	39 40	+1 0	(T) (T)
86P6 54°29.4'N 03°41.9'W	17.9.86 26.10.86	22	300 ⁺ 145	14 4	—	—	— 40	— 0	Meter failed (T) Meter failed
86P7 54°29.6'N 03°41.7'W	26.10.86 14.11.86	24	331 ⁺ 290	14 4	19	02	30 01	0 +9	(T) (T)
Station Q	Tidal range = 7.0 m								
86Q1 54°27.5'N 03°48.9'W	26.1.86 13.4.86	29	599 ⁺ 692	17 5	4	03	50 50	0 0	(T) Rig adrift (T)
86Q2 54°27.0'N 03°49.1'W	13.4.86 4.6.86	34	749 340	18 5	11	14	42 37	-12 -7	(T) Meter failed; 2 parts (T)
86Q3 54°27.3'N 03°49.0'W	4.6.86 17.7.86	31	192 ⁺ 75°	18 4	42	21	01 30	-1 0	(T) (T) Meter failed
86Q4 54°27.3'N 03°49.5'W	17.7.86 23.8.86	32	300 ⁺ 241	18 4	37	02	00 00	0 0	(T) (T)
86Q5 54°27.6'N 03°49.0'W	23.8.86 18.9.86	31	192 ⁺ 420	18 4	26	02	08 30	+2 —	(T) (T) Meter not working on recovery
86Q6 54°27.4'N 03°49.2'W	18.9.86 26.10.86	28	696 ⁺ 410	18 4	35	11	10 50	0 0	(T) (T) Temperature only recorded
86Q7 54°27.3'N 03°48.9'W	26.10.86 16.11.86	32	500 ⁺ 749	18 4	19	19	11 20	-1 0	(T) (T) Meter failed
Station R	Tidal range = 6.6 m								
86R1 54°22.7'N 04°03.0'W	26.1.86 13.4.86	40	852 ⁺ 275	28 5	—	—	— —	— —	Meter lost Meter lost
86R2 54°22.6'N 04°03.1'W	13.4.86 4.6.86	39	360 385	24 3	17	21	40 56	0 +4	(T) Meter failed (T)
86R3 54°22.5'N 04°03.2'W	4.6.86 16.7.86	40	340 749	24 4	42	02	44 10	+6 0	(T) (T) No speeds recorded

Table 5 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
86R4 54°22.7'N 04°03.2'W	16.7.86 23.8.86	44	65° 290	24 4	37 37	19 19	20 40	0 0	(T) (T)
86R5 54°23.0'N 04°02.8'W	23.8.86 18.9.86	31	749 410	24 4	25 25	17 17	42 39	-2 +1	(T) No speeds recorded (T) Temperatures only recorded
86R6 54°22.5'N 04°03.6'W	18.9.86 13.11.86	41	340 360	24 4	56 45	01 18	00 00	0 0	(T) (T) Meter failed
Station S 86S2 54°19.4'N 04°14.1'W	Tidal range = 6.3 m 11.4.86 3.6.86	32	752 290	16 5	— 48	— 13	— 20	— —	Meter failed (T)
86S3 54°19.3'N 04°14.1'W	3.6.86 16.7.86	30	300+ 683	19 4	42 25	17 23	38 10	+2 0	(T) (T) Meter failed; in 2 parts
86S4 54°19.3'N 04°13.8'W	16.7.86 24.8.86	24	696+ 385	16 4	38 38	21 21	00 20	— 0	(T) (T)
86S5 54°19.4'N 04°13.6'W	24.8.86 18.9.86	24	500+ 120	16 4	24 24	17 17	49 57	+1 -7	(T) (T) No speeds recorded after 2 days
86S6 54°19.2'N 04°15.1'W	18.9.86 13.11.86	29	933+ 385	16 4	56 —	05 —	00 —	0 —	(T) Meter lost
Station T 86T1 54°10.0'N 03°28.9'W	Tidal range = 7.3 m 26.1.86 13.4.86	24	45° 120	11 5	— 2	— 8	— 30	— 0	Meter lost (T) Rig adrift
Station V 86V2 53°58.2'N 04°40.5'W	Tidal range 5.9 m 11.4.86 3.6.86	48	77° 683	29 5	44 —	01 —	43 —	-3 —	(T) Meter failed
86V3 53°58.3'N 04°39.9'W	3.6.86 15.7.86	40	933+ 65°	29 4	42 42	04 04	48 51	+2 -1	(T) (T)
86V4 53°58.4'N 04°39.8'W	15.7.86 22.8.86	45	500 675	29 4	39 39	09 09	51 50	-1 0	(T) (T) No speeds recorded
86V6 53°58.4'N 04°39.6'W	15.9.86 20.11.86	48	65° 675	29 4	65 —	18 —	10 —	0 —	(T) Meter lost

Table 5 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
Station W	Tidal range = 6.0 m								
86W2 53°46.7'N 04°39.0'W	11.4.86	67	675	53	21	01	20	0	(T) Meter failed
	3.6.86		533 ⁺	5	—	—	—	—	Meter lost
Station Y	Tidal range = 5.9 m								
86Y2 53°35.9'N 04°38.1'W	11.4.86	70	410	50	00	05	50	—	Rig adrift
	3.6.86		573 ⁺	5	—	—	—	—	Meter lost
86Y3 53°36.3'N 04°37.3'W	3.6.86	74	500 ⁺	51	42	06	39	+ 1	(T)
	15.7.86		241	4	42	07	49	+ 1	(T)
86Y4 53°36.1'N 04°37.4'W	15.7.86	73	999 ⁺	51	—	—	—	—	Meter lost
	22.8.86		310	4	—	—	—	—	Meter lost
86Y5 53°36.0'N 04°38.0'W	24.8.86	74	300 ⁺	51	22	03	19	+ 1	(T)
	15.9.86		290	4	22	03	29	+ 1	(T) No speeds recorded after 12 days
86Y6 53°36.0'N 04°37.6'W	15.9.86	74	75 ^o	51	—	—	—	—	Meter lost
	20.11.86		77 ^o	4	—	—	—	—	Meter lost

*All meters are Plessey MO21F unless marked: + = Aanderaa RCM4; ø = Plessey 9021.

Table 6 North-east Atlantic, 1983 deployments (83-02 to 83-10, 83-L3) (Figure 3)

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
83-02	5.7.83	4118	351	1232	361	16	00	0	(T) Some suspect speeds
52°27.2'N									25/11-1/1
17°42.1'W	1.7.84		886	45	361	16	03	-3	(T)
(NEADS 6)									
83-03	13.7.83	4916	789	1005	356	18	03	-3	(T)
44°29.0'N									
13°16.6'W	4.7.84		855	45	356	17	59	+1	(T)
83-04	13.7.83	4763	128	1001	356	17	54	+6	(T)
43°57.1'N									
13°04.0'W	4.7.84		987	45	356	18	04	-4	(T) No velocity recorded
83-05	14.7.83	4419	101	1047	355	05	56	+4	(T)
44°51.6'N									
14°39.3'W	3.7.84		924	45	355	05	55	+5	(T)

Table 6 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
83-06 44°49.4'N 14°10.6'W	14.7.83 4.7.84	4619	543 801	1018 45	355 355	12 12	44 41	+16 +19	(T) (T)
83-07 44°48.6'N 13°42.4'W	14.7.83 4.7.84	4357	397 534	1073 45	355 355	08 08	03 03	-3 -3	(T) (T)
83-08 43°21.7'N 13°02.4'W	16.7.83 4.7.84	5246	442 652	1040 45	244 354	02 02	52 53	+8 +7	(T) Record starts at 3.11.83 (T)
83-09 43°12.1'N 12°43.7'W	16.7.83 5.7.84	5050	132 825	1036 45	354 354	11 11	00 05	0 -5	(T) (T)
83-10 43°03.5'N 12°28.5'W	16.7.83 5.7.84	4025	373 476	1009 45	354 354	11 11	44 54	+16 +6	(T) (T)
83-L3 51°42.7'N 15°11.1'W	15.5.83 2.11.83	1709	696 999	730 30	171 138	06 08	02 02	-2 -2	(T) (T)

*All meters are Aanderaa RCM5 recording at hourly intervals, except 83-L3 where recording interval was 30 min.

Table 7 North-east Atlantic, 1984 deployments (84-01 to 84-11) (Figure 4)

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
84-01 52°28.4'N 17°42.6'W (NEADS 6)	1.7.84 6.6.85	4125	743 897	1393 45	339 293	17 17	50 03	+10 -3	(T) (T) Meter failed
84-03 41°25.3'N 14°24.6'W	8.7.84 25.5.85	5343	500 278 644	4800 2800 800	319 319 251	20 19 09	07 54 49	-7 +6 +11	(P) (T) (T) Meter failed
84-04 41°00.5'N 14°26.8'W	9.7.84 24.5.85	5350	960 178	3641 2611	318 305	20 08	05 03	-5 -3	(P) (T) Meter failed
84-05 40°59.7'N 14°59.0'W	9.7.84 25.5.85	5338	20 88	2553 1595	— —	— —	— —	— —	Meter lost Meter lost
84-06 41°24.6'N 15°01.0'W	9.7.84 25.5.85	5338	703 37	3767 2716	319 319	11 11	01 03	-1 -3	(T) (T)

Table 7 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
84-07 41°50.2'N 15°00.7'W	10.7.84 25.5.85	5339	104 664	2702 1702	—	—	—	—	Meter lost Meter lost
84-08 41°52.1'N 14°28.5'W	11.7.84 25.5.85	5339	490 879	3789 2735	318	00	53	+7 0	(T) (T)
84-09 41°49.9'N 13°54.1'W	12.7.84 23.5.85	5347	46 109	2665 1695	278	17	56	+4 +3	(T) Meter failed (T)
84-10 41°23.5'N 13°53.4'W	12.7.84 23.5.85	5353	73 562	3760 2702	314	21	02	-2 +22	(T) (T)
84-11 41°00.1'N 13°55.0'W	12.7.84 23.5.85	5352	606 898	2665 1695	314	22	02	-2 0	(T) (T)

*All meters are Aanderaa RCM5 recording at hourly intervals.

Table 8 North-east Atlantic, 1985 deployments (85-01 to 85-09) (Figure 5)

Station and position	Deployed/ recovered	Water depth (m)	Meter No.*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
85-01 52°09.7'N 16°54.4'W	7.6.85	4100	101 789	1180 45	—	—	—	—	Meter lost Meter lost
85-02 52°35.1'N 17°07.1'W	7.6.85 9.7.86	3704	124 825	665 45	354	5	50	+10 0	(T) (T) Tape ran out
85-03 52°17.4'N 17°18.4'W	7.6.85 8.7.86	4253	373 801	1083 45	84	15	55	+5 -1	(T) (T)
85-04 52°04.2'N 17°32.9'W	8.6.85 8.7.86	4390	397 543	1387 45	394	22	03	-3 +3	(T) (T)
85-05 51°50.1'N 17°43.3'W	8.6.85 8.7.86	4547	442 476	1614 45	394	21	54	+6 +7	(T) (T)
85-06 52°12.5'N 17°56.1'W	6.6.85 9.7.86	4426	128 534	1331 45	397	14	46	+14 +58	(T) (T)

Table 8 Continued

Station and position	Deployed/ recovered	Water depth (m)	Meter No*	Height of meter above bottom (m)	Length of record			Timing discrepancy (min)	Notes
					Days	Hours	Min		
85-07 52°27.7'N 17°42.8'W (NEADS 6)	7.6.85	4120	132	1022	—	—	—	—	Meter failed
	8.7.86		759	45	330	15	21	-21	(T)
85-08 52°42.5'N 17°27.8'W	7.6.85	3805	652	781	316	05	54	+6	(T)
	9.7.86		855	45	396	20	59	+1	(T)
85-09 52°36.0'N 18°07.5'W	7.6.85	4092	351	1020	377	09	00	0	(T)
	9.7.86		924	45	347	12	54	+6	(T)

*All meters are Aanderaa RCM5 recording at hourly intervals.

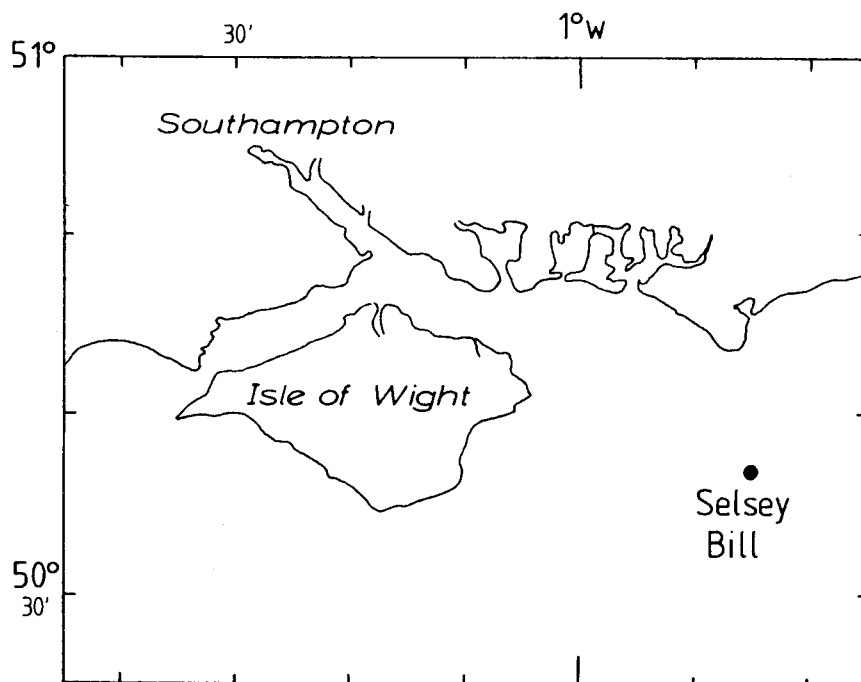


Figure 1 Selsey Bill station (Table 2)

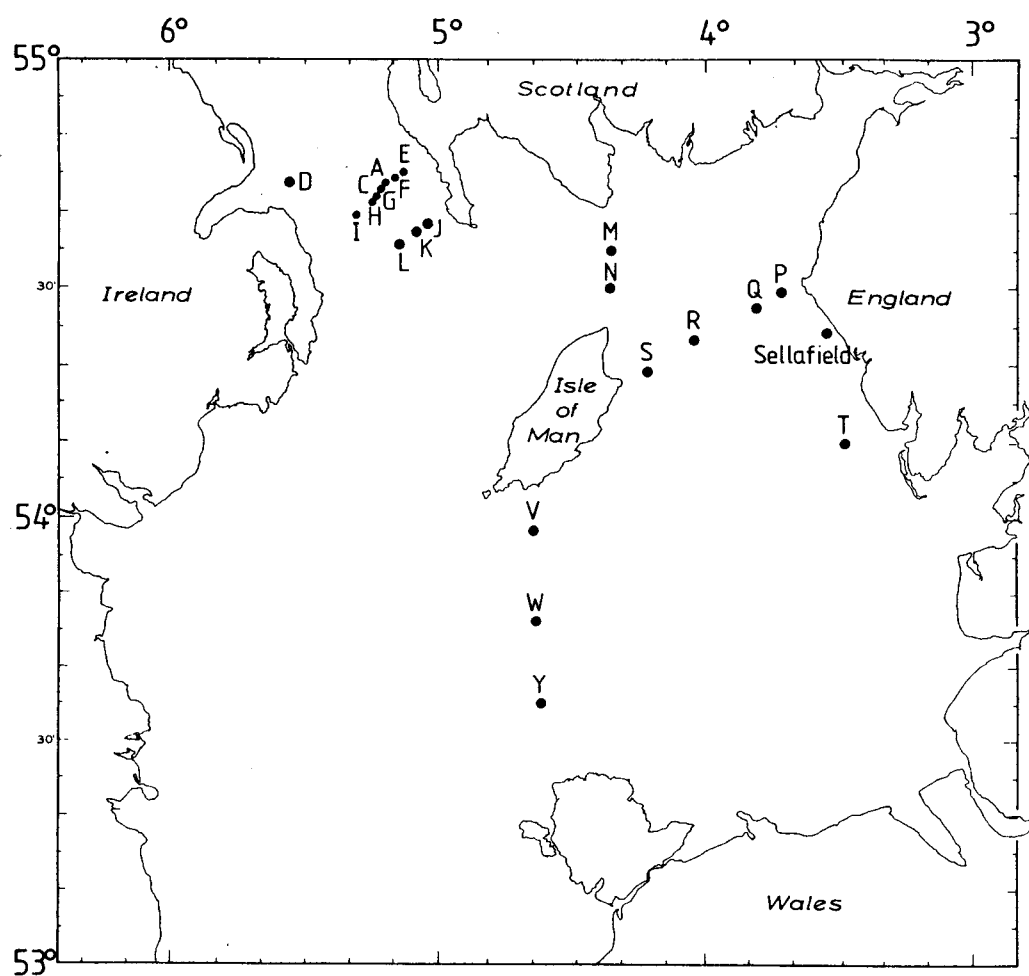


Figure 2 Irish Sea stations (Tables 3, 4 and 5)

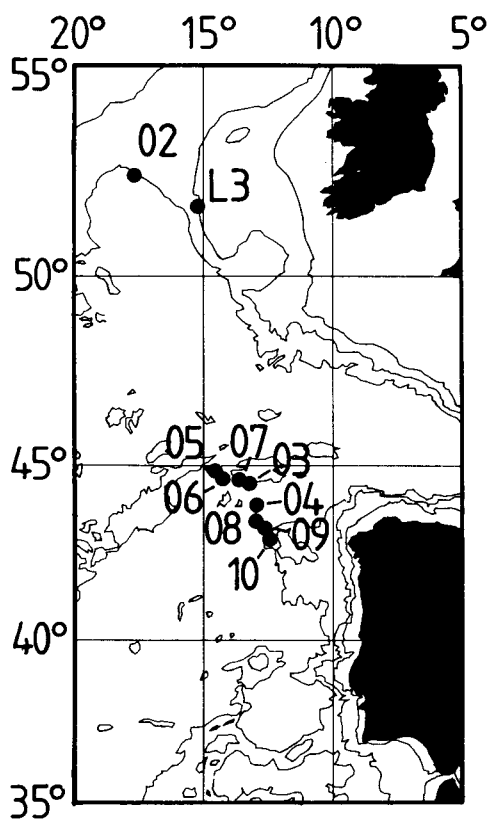


Figure 3 North-east Atlantic stations, 1983-84 (Table 6)

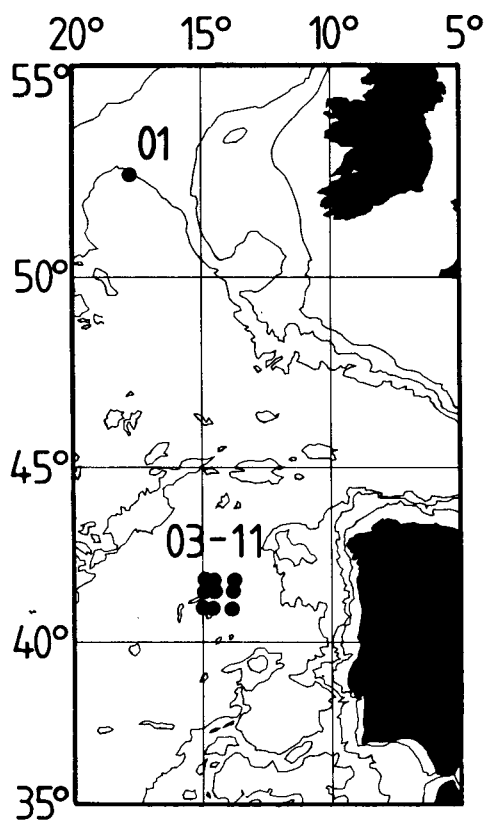


Figure 4 North-east Atlantic stations, 1984-85 (Table 7)

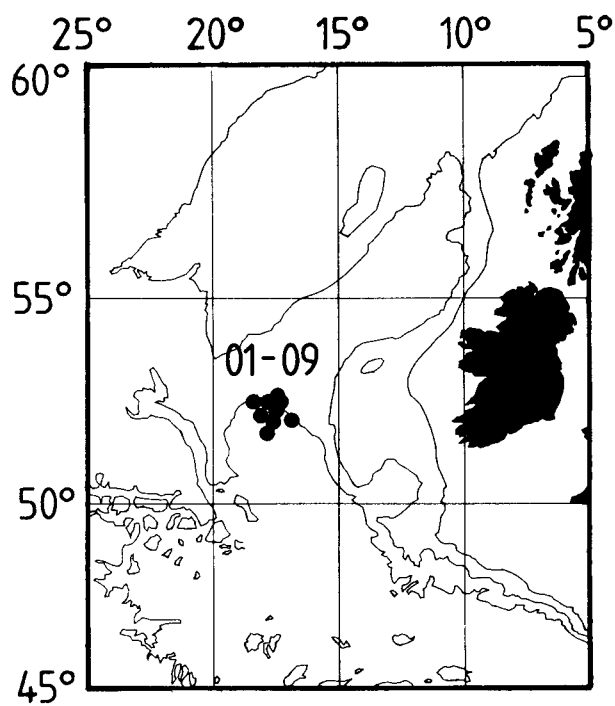


Figure 5 North-east Atlantic stations, 1985-86 (Table 8)