

CRUISE REPORT

FREDERICK RUSSELL 2/85

25 FEB - 10 MAR 1985

1. Personnel

R Longmore	MBA
G T Mardell	IOS/MBA
L Mavin	MBA
D Pilgrim	Plymouth Polytechnic (1st leg)
R D Pingree	IOS/MBA (Principal Scientist)
C Pybus	Tech College, Galway
S Diffey	Plymouth Polytechnic (2nd leg)

2. Aims

- 1) To deploy 2 short term current meter rigs either side of the Isles of Scilly.
- 2) To recover a drifting buoy deployed in September 1984.
- 3) To measure sea surface temperature, salinity, chlorophyll 'a', inorganic nitrate and beam attenuation coefficient along the ship's track and to relate extraction coefficient measurements at light meter stations to measurements of beam attenuation coefficient.

3. Procedure and Scientific Programme

The Frederick Russell sailed from Plymouth at 1300 GMT on 25.2.85 and steamed out to the shelf break near 47°44'N 05°27'W to recover drifting buoy 1817. One light meter station was completed on the return leg across the shelf to the Isles of Scilly at position 47°21'N 07°11'W on the 26.2.85. At positions north and south of the Isles of Scilly current meter moorings 089 and 090 were deployed in water depths of 80 m and 82 m respectively (see Table 1). The Frederick Russell then steamed along the track shown in Fig. 1 making light meter stations at the positions indicated in Fig. 1 and listed in Table 2. On 3.3.85 the Frederick Russell arrived in Fishguard to take on water and departed the following day (4.3.85) at 1200 GMT to proceed along a track into the Irish Sea and along the south coast of Ireland to finally arrive back at the Isles of Scilly on 8.3.85 where mooring 089 and 090 were successfully recovered. Two further light meter stations were then made near Portland Bill on 9.3.85 and after a short leg into Lyme Bay the Frederick Russell steamed back to Falmouth and entered Falmouth Docks at 0900 GMT on 10.3.85.

IOS / MBA FREDERICK RUSSELL 2/85

TABLE 1

Mooring Number	Date		Position	Equipment
	deployed	recovered		
89	27.7.85	8.3.85	49°51.25'N 06°22.20'W	2 Aanderaa CM
90	27.2.85	8.3.85	49°59.6'N 06°21.25'W	2 Aanderaa CM

TABLE 2

LIGHT METER AND TRANSMISSOMETER STATIONS

Station No	Date	Time	Lat	Long
1	26/2	1621	47°21'N	07°11'W
2	27/2	1400	50°00'N	06°20'W
3	28/2	0930	50°35'N	06°00'W
4	28/2	1100	50°28'N	05°00'W
5	1/3	1150	50°56'N	04°42'W
6	1/3	1500	51°14'N	04°46'W
7	2/3	1200	51°03'N	06°12'W
8	2/3	1700	51°26'N	05°16'W
9	3/3	0930	52°06'N	04°56'W
10	3/3	1530	52°01'N	04°56'W
11	4/3	1050	52°01'N	04°56'W
12	4/3	1315	52°03'N	05°05'W
13	5/3	1215	52°28'N	04°31'W
14	6/3	1050	51°52'N	07°06'W
15	6/3	1530	51°29'N	06°51'W
16	7/3	0920	51°29'N	08°54'W
17	7/3	1030	51°28'N	08°55'W
18	7/3	1400	51°15'N	08°49'W
19	8/3	0915	50°17'N	06°58'W
20	8/3	1700	49°52'N	06°09'W
21	9/3	1500	50°34'N	02°10'W
22	9/3	1702	50°25'N	02°15'W

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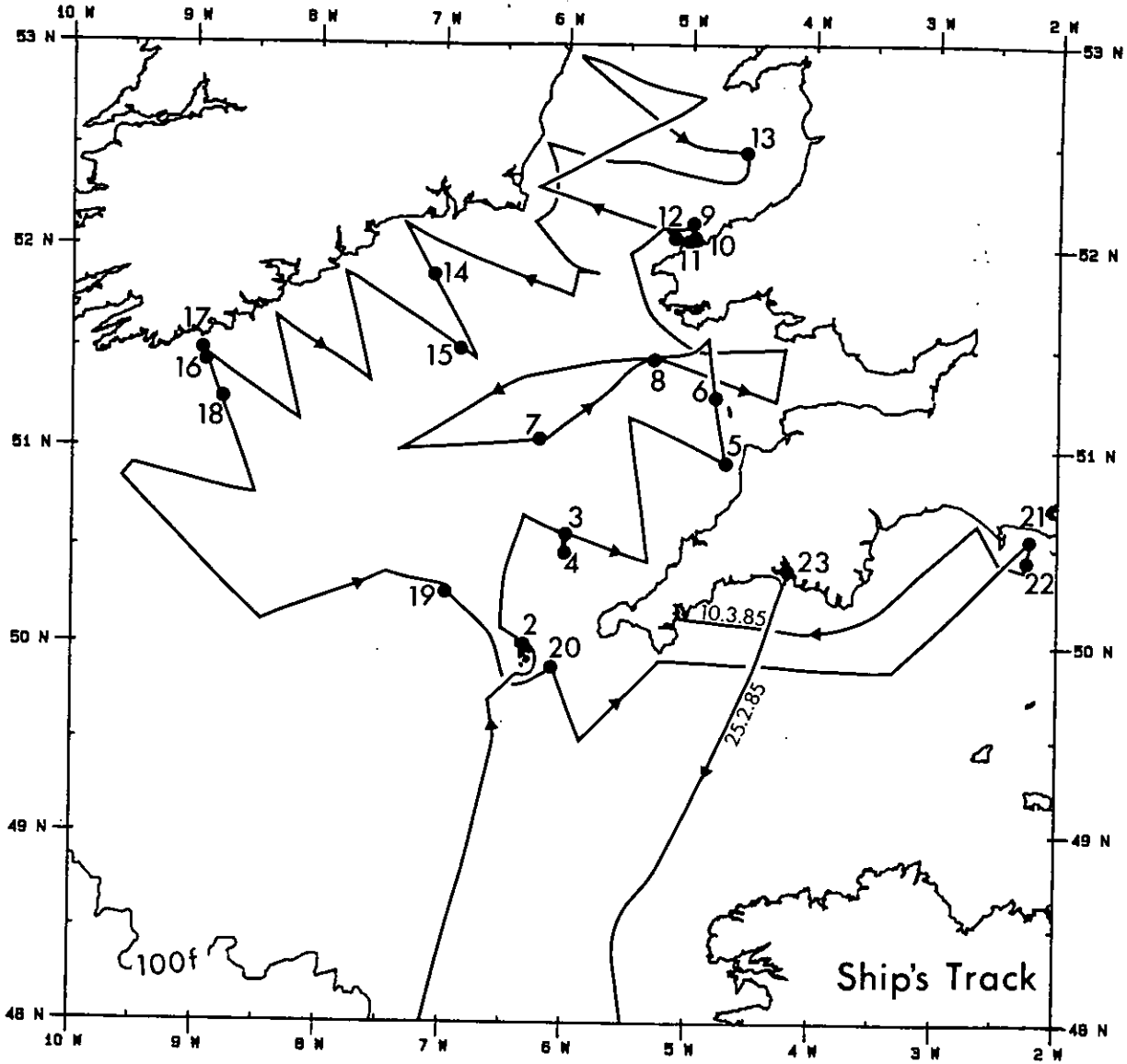


Fig. 1