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**OPEN SEA FISH TRACKS:
PLAICE FITTED WITH
TRANSPONDING ACOUSTIC TAGS**

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Summary

Since the early 1970s, scientists at the CEFAS Lowestoft Laboratory, have been trying to understand the behavioural mechanisms of fish migration by tracking free-ranging fish in the open sea using sector scanning sonar and transponding acoustic tags. Although many representative fish tracks have appeared in scientific journals, much of the basic information has, by virtue of its bulk, remained unpublished. Because of the inherent value of these data, and a continuing need to refer to them, it has now been decided to publish them in full in a series of Science Series (formerly Laboratory) Data Reports, of which this is the third. It should be noted that these reports are simply a presentation of the original tracking data. For an analysis of the data, the reader is referred to the relevant publications (see Introduction).

1. Introduction

The aim of this study was to observe the movement and behaviour of plaice in the southern North Sea in relation to tidal streams using transponding acoustic tags. The data were collected during *RV CLIONE* cruises 2/71, (SIC¹: R.B. Mitson), 13/71, (SIC: M. Greer Walker), and 7/71, 5/72, (SIC: F.R. Harden Jones). Data are also given here for the tracks of two plaice fitted with small, powerful magnets. These fish were tracked during *RV CLIONE* cruise 16/72 (SIC: F.R. Harden Jones). The data obtained, and the analysis of the results are presented elsewhere (Greer Walker *et al.*, 1978; Harden Jones, 1981; Harden Jones, 1984; Arnold *et al.*, 1990; Metcalfe *et al.*, 1990).

2. Materials and Methods

2.1 The fish

The fish were caught by otter trawl operated from *RV CLIONE* and *RV CORELLA* in the southern North Sea in the Silver Pits (54° 5'N 2° 20'E) and on the Borkum Ground (53° 55'N 6° 10'E). The plaice were taken back to the laboratory and held for about 2 months, they were fed on lugworm. Two weeks before a tracking exercise fish were tagged with a Petersen disk and held at the laboratory. Prior to their release the fish were kept unfed on the ship in a deck tank.

2.2 Tracking procedure

The fish were fitted with a 'standard' 300 kHz transponding acoustic tag developed at the CEFAS Lowestoft Laboratory, (Mitson and Storeton West, 1971). Fish 13 and 14 were also fitted with small, powerful, permanent ring magnets, (Mullard FD 364, Magnadur 1, pole field intensity 500-600 gauss). These were attached approximately 5 cm from the head of the

fish, in a position calculated to give a field strength, several times that of the earth's magnetic field, in the region of the brain. The fish were tracked from *RV CLIONE* using the ARL scanner (Voglis and Cook, 1966). Immediately prior to the release of the fish the acoustic tag was tied to the upper ring of the standard Petersen disk tag using a fine braided nylon cord. The tag was placed towards the head of the fish in the region of minimal flexure and aligned along the body axis on the upper surface between the lateral line and the left marginal (dorsal) fin. The tag was 0.8 cm in diameter and 5.1 cm in length, weighed 3-4 g in sea water, and was unlikely to have impeded the fish in any significant way (Arnold and Holford, 1978). It returned a powerful 3 ms pulse when insonified by the sonar installed on board the research vessel and produced an unambiguous signal on the sonar screen. This signal was kept under constant surveillance during the track, (Greer Walker *et al.*, 1978).

The horizontal and vertical positions of the fish were recorded routinely every 15 minutes (Harden Jones *et al.*, 1973; Greer Walker *et al.*, 1978) and more frequently, when required. The range of the fish from the ship was estimated directly from the sonar screen to the nearest 5 m and bearing to the nearest 1°, using the sonar in horizontal (azimuth) mode. The geographical position of the fish was estimated from these data and the position of the research vessel, which was determined by reference to the Decca Navigator system (Anon, 1973). The depth of the fish was estimated by elevation scanning with the sonar transducer in vertical mode. The tilt of the transducer was increased until the tag signal was on the centre line of the sonar display and the tilt angle measured to the nearest 1°. The depth of the sea bed was measured at the same range in the same way. Depth (D) in the water column was calculated from:

$$D = R \sin \theta + d$$

where:

R - range of the fish from the ship

θ - angle of tilt of the transducer from the horizontal

d - the depth of the transducer below the keel of the ship (4 m).

For fish in midwater, height above the bottom was calculated from the difference between the depth of the tag and the depth of the sea bed. For fish close to the sea bed, position was recorded as *just off the bottom* when the acoustic tag signal was clearly separated from the echo of the sea bed, but by an angle of less than 1°. The errors associated with the estimation of the depth of the fish are discussed by Arnold and Greer Walker (1992).

¹SIC : Scientist in Charge.

2.3 Method of release

After the attachment of the acoustic tag the fish were released over the rail of the ship.

2.4 Tidal and astronomical stream data

The tidal data were obtained using 'Polpred', the Proudman Oceanographic Laboratory's offshore tidal prediction software. Times of slack water and tidal direction, (generalised to north or south) were calculated for a sequence of positions along the fish ground track approximately 0.01° of a latitude and 0.05° of a longitude apart. Times of sunrise (SR) and sunset (SS) were taken from the Nautical Almanac for the nearest tabular latitude.

2.5 The data

Summary data are presented in Tables 1 and 2, the first of which gives, where known, the size and sex of the fish. This table also includes the dates and localities of capture and release and the research vessel cruise. Localities are given by ICES Division and statistical rectangle. The second summary table gives astronomical and tidal stream data, and details of times of sunset and sunrise during each track, together with times of local slack water, and the direction of the ensuing tidal stream.

Subsequently, for each fish there are two tables which give:

1. **Geographical position:** sequential positions are given in decimal degrees for elapsed time in decimal hours after release.
2. **Vertical position:** the depth of the fish and the depth of the sea bed are given in metres for elapsed time. Occasions where the two depths were the same, but where the gap between the tag and the bottom on the sonar display indicated the fish to be *just off the bottom* (JOB), are denoted by italics.

N.B. The horizontal and the vertical data are recorded separately and initial data are recorded shortly after the fish is released, consequently the time of release and the first horizontal and vertical times will differ.

For Fish 1 depth data was not recorded so fish depth is unknown. However a stylised vertical plot has been drawn from observations of the fish's vertical movements i.e. OB (on the bottom) and MW (Mid-water).

These tables are preceded by two separate sets of figures which show the equivalent horizontal and vertical tracks of the fish. In each case the vertical track of the fish when off the bottom has been plotted from a 7 point running mean of the fish depths listed in the relevant table; bottom depths were treated in the same way.

3. References

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Table 1. Summary details of tracked fish

Fish No.	Date and location of capture	Sex and length (cm)	Details of release			Duration of track (decimal hours)	Time, date and location of end of track
			Date, time and location	Cruise	Petersen tag number		
1	8-Jan-71 IVb *	Female 45	20-Feb-71 1417 IVc 22*	RV Clione Cruise 02/71	E61 2593	25.17	21-Feb-71 1530 IVc 17* (Fish lost)
2	8-Jan-71 IVb *	Female 44	9-Jun-71 1245 IVc 22*	RV Clione Cruise 07/71	EE3651	42.00	11-Jun-71 0715 IVc 17* (Fish lost)
3	8-Jan-71 IVb *	Female 37	17-Jun-71 0010 IVc 22*	RV Clione Cruise 07/71	EE3648	38.33	18-Jun-71 1430 IVc 16* (Fish abandoned due to tag failure)
4	8-Jan-71 IVb *	Male 42	19-Jun-71 1430 IVc 22*	RV Clione Cruise 07/71	E61 2596	5.00	19-Jun-71 1930 IVc 22* (Fish lost)
5	8-Jan-71 IVb *	Female 37	19-Jun-71 2015 IVc 22*	RV Clione Cruise 07/71	EE3646	34.53	21-Jun-71 0647 IVc 22* (Fish lost)
6	8-Jan-71 IVb *	Female 37	24-Jun-71 1644 IVc 16*	RV Clione Cruise 07/71	E61 2597	54.52	26-Jun-71 2315 IVc 17* (Fish abandoned)
7	28-Oct-71 IVc 22or26*	Female 41	12-Dec-71 1009 IVc 16*	RV Clione Cruise 13/71	E60 6263	26.35	13-Dec-71 1230 IVc 11* (Fish abandoned)
8	25-Feb-72 IVc 13*	Female 39	9-Apr-72 1152 IVc 22*	RV Clione Cruise 5/72	EE3678	22.63	10-Apr-72 1030 IVc 17* (Fish abandoned)
9	25-Feb-72 IVc 13*	Female 44	11-Apr-72 2103 IVc 22*	RV Clione Cruise 5/72	EE3672	28.45	13-Apr-72 0030 IVc 22* (Fish abandoned)
10	25-Feb-72 IVc 13*	Male 42	13-Apr-72 2136 IVc 22*	RV Clione Cruise 5/72	EE3680	51.40	15-Apr-72 0100 IVc 16* (Fish abandoned)
11	25-Feb-72 IVc 13*	Female 52	17-Apr-72 1029 IVc 17*	RV Clione Cruise 5/72	EE3666	36.52	18-Apr-72 2300 IVc 17* (Fish abandoned)
12	25-Feb-72 IVc 13*	Male 36	20-Apr-72 1708 IVc 22*	RV Clione Cruise 5/72	EE3677	20.37	21-Apr-72 1330 IVc 22* (Fish abandoned)
13	-	-	7-Dec-72 1842 IVc 11*	RV Clione Cruise 16/72	-	26.0	8-Dec-72 2100 IVc 16* (Fish abandoned)
14	-	-	9-Dec-72 0940 IVc 11*	RV Clione Cruise 16/72	-	20.5	10-Dec-72 0640 IVc 11* (Fish abandoned)

* I.C.E.S Division and Rectangle

Table 2. Astronomical and tidal stream data

Fish No.	Date	Times (GMT)			Direction of ensuing tidal stream	§ Reference number
		Sunrise	Sunset	Local slackwater		
1	20-Feb-71	0709	1720	1840	N	1
	21-Feb-71	0702		0110	S	2
				0730	N	3
				1400	S	4
2	9-Jun-71	0341	2018	1742	S	1
	10-Jun-71	0341		2340	N	2
				0550	S	3
	11-Jun-71	0341	2018	1202	N	4
				1822	S	5
				0030	N	6
				0635	S	7
3	17-Jun-71	0339	2022	0535	N	1
	18-Jun-71	0339		1142	S	2
				1800	N	3
				0025	S	4
				0640	N	5
				1250	S	6
4	19-Jun-71	0339	2023	2005	N	1
5	19-Jun-71	0339	2023	0235	S	1
	0850			N	2	
	1510			S	3	
	2112			N	4	
	0340			S	5	
6	24-Jun-71	0341	2024	1825	S	1
	25-Jun-71	0341		0030	N	2
				0645	S	3
	26-Jun-71	0341	2024	1257	N	4
				1920	S	5
				0135	N	6
				0730	S	7
				1345	N	8
				2000	S	9
7	12-Dec-71	0759	1549	1315	S	1
	13-Dec-71	0759		1932	N	2
				0135	S	3
				0735	N	4
8	9-Apr-72	0515	1849	1320	S	1
	10-Apr-72	0515		1940	N	2
				0217	S	3
				0830	N	4
9	11-Apr-72	0508	1849	2125	N	1
	0350			S	2	
	0955			N	3	
	1605			S	4	
	2215			N	5	
10	13-Apr-72	0508	1854	2255	N	1
	0515			S	2	
	1120			N	3	
	1735			S	4	
	2340			N	5	
11	17-Apr-72	0501	1859	1340	N	1
	18-Apr-72	0455		1955	S	2
				0210	N	3
				0825	S	4
				1425	N	5
				2055	S	6
12	21-Apr-72	0448	1905	2257	S	1
				0505	N	2
				1127	S	3
13	7-Dec-72	0752	1549	1815	S	1
	8-Dec-72	0756		0025	N	2
				0647	S	3
				1235	N	4
				1850	S	5
14	9-Dec-72	0756	1549	1305	N	1
	10-Dec-72			1905	S	2
				0115	N	3

§ These reference numbers correspond to the diamonds on the figures of the ground tracks
 S South-going tide N North-going tide

FIGURES

Figures 1(i), 1(ii) and 1(iii) indicate the locations of the 14 fish tracks in the southern North Sea; subsequent figures show the individual ground tracks and vertical tracks.

Scale: 1 minute of latitude = 1853 m (1 nautical mile).

The ground tracks (Figures 2, 4, 6 *et seq.*) show hourly positions of the fish (where possible) in relation to the direction of tide;

- ▲ north-going tide at night
- △ north-going tide by day
- ▼ south-going tide at night
- ▽ south-going tide by day

Slack waters are indicated with reference to slack water number (Table 2);

- ◆ slack water at night
- ◇ slack water by day

The 30 m isobath is symbolised by — 30 — .

The vertical plots (Figures 3, 5, 7 *et seq.*) show the depth of the fish (thin line) in relation to the sea bed (bold line), the direction of tide and day and night.

N.B. Fish track 1, Figure 3, depth data was not recorded so fish depth is unknown. However a stylised vertical plot has been drawn from observations of the fish's vertical movements i.e. OB (on the bottom) and MW (Mid-water).

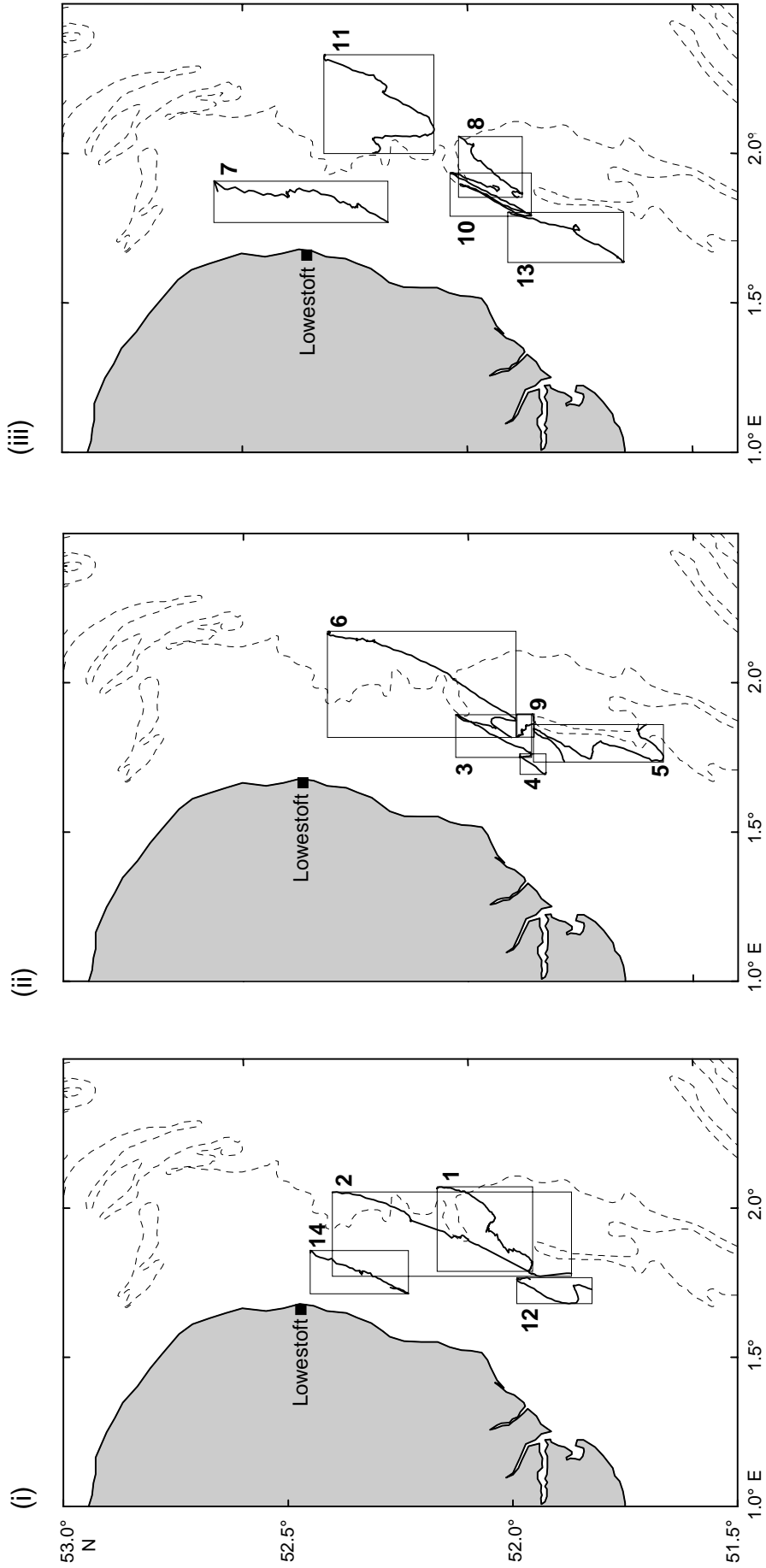


Figure 1. Positions of each track in the southern North Sea. The 30 m isobath is shown

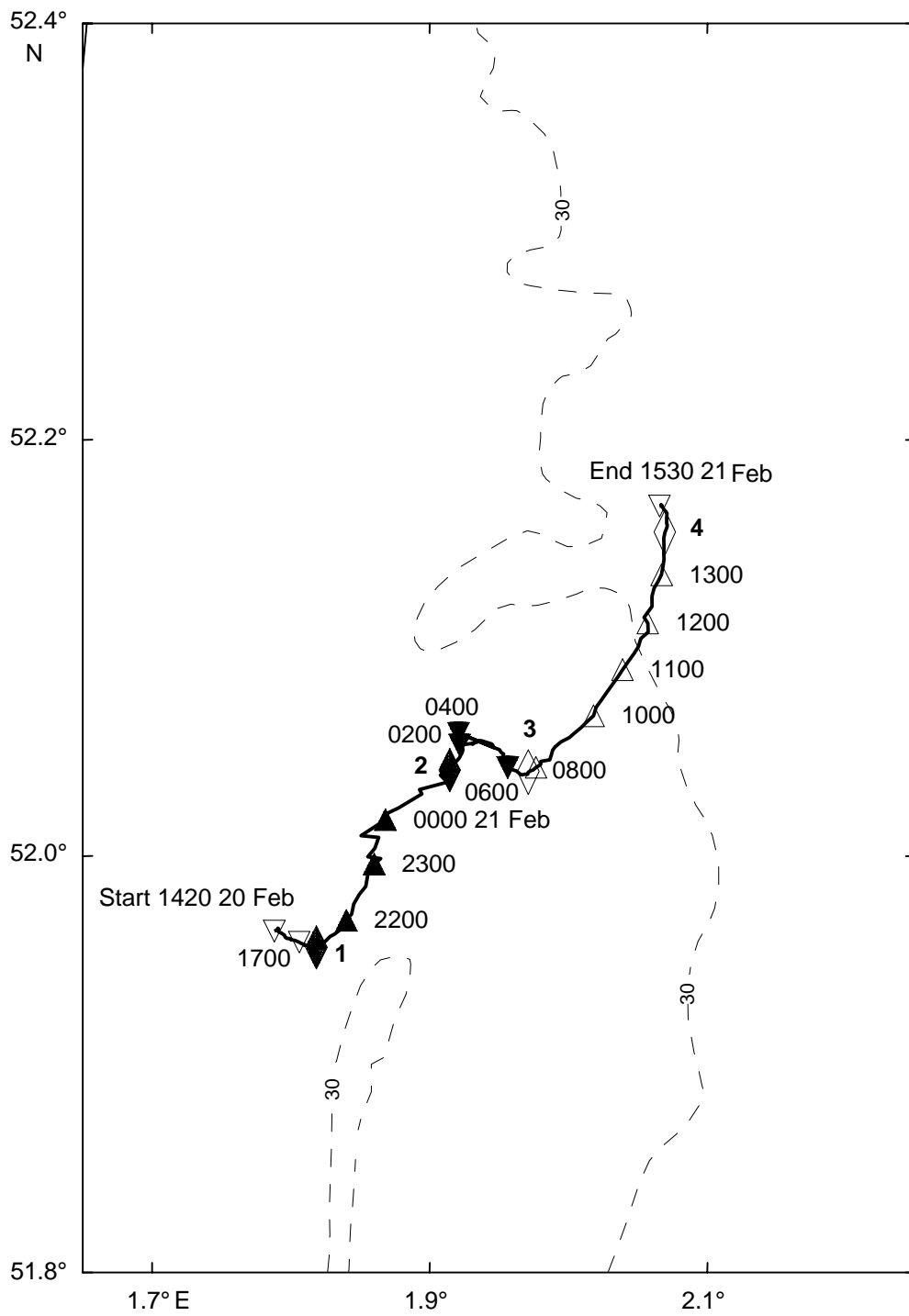


Figure 2. Ground track of Fish 1, released at 1420h, 20 February 1971

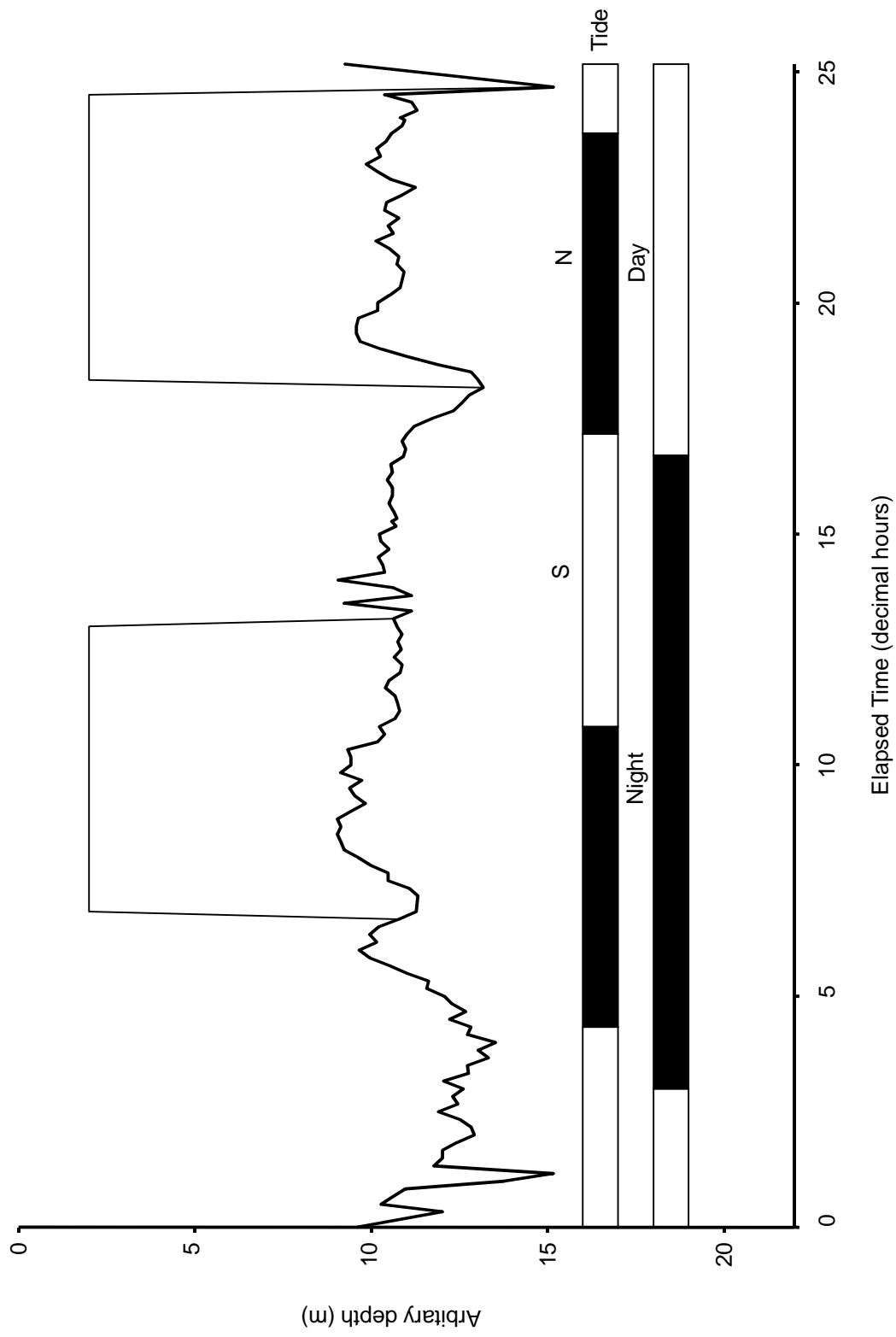


Figure 3. Vertical track of Fish 1

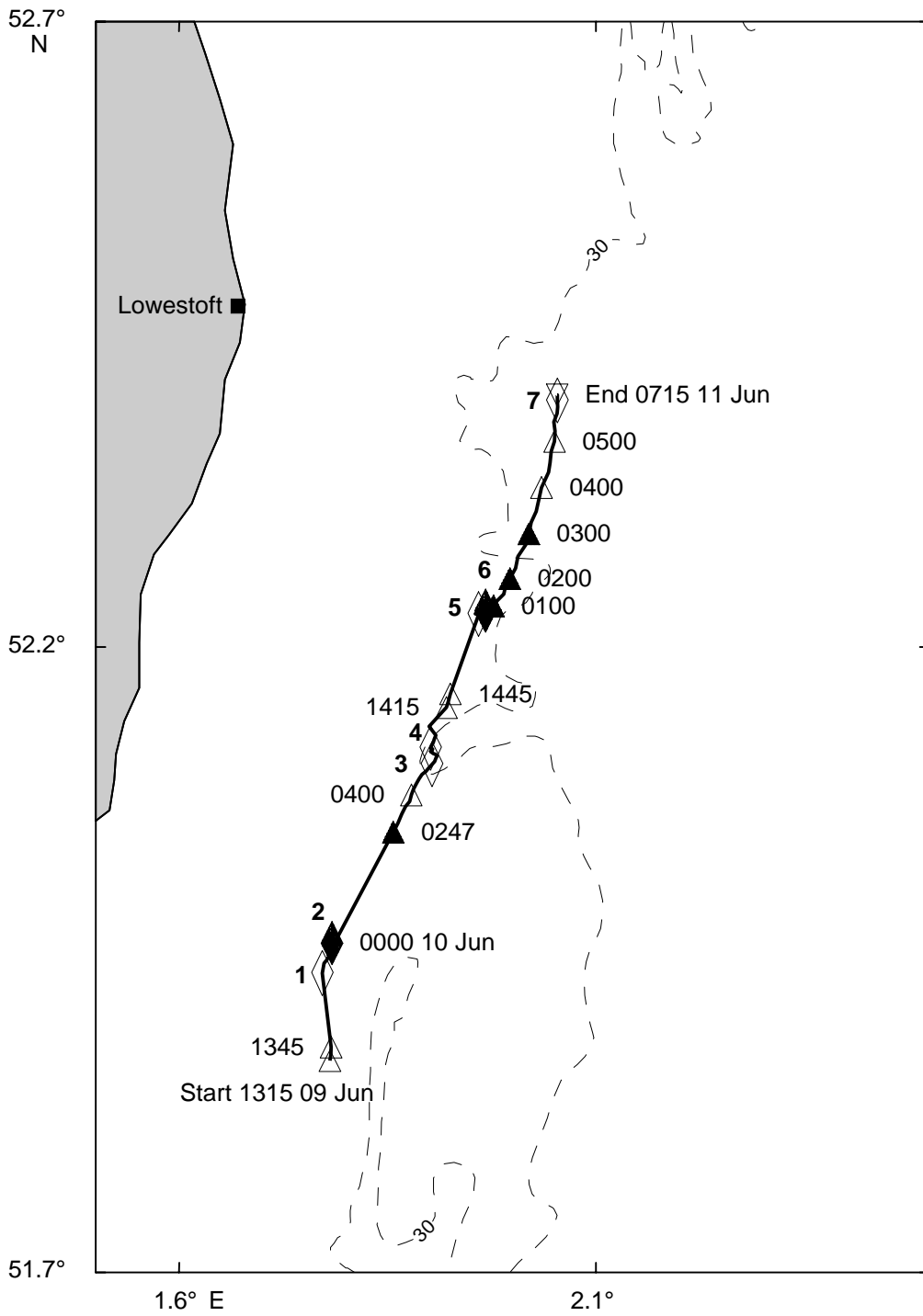


Figure 4. Ground track of Fish 2, released at 1245h, 09 June 1971

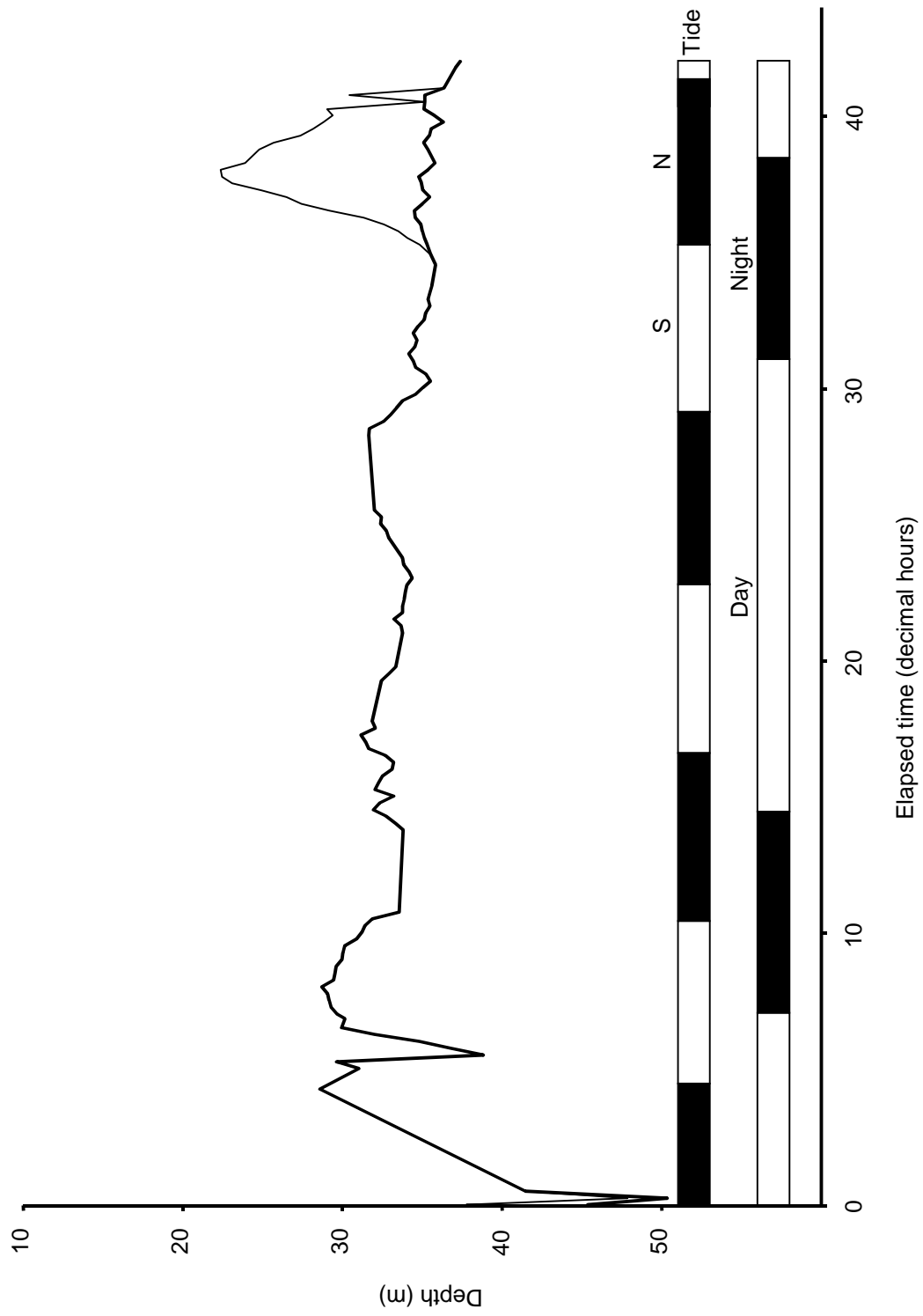


Figure 5. Vertical track of Fish 2

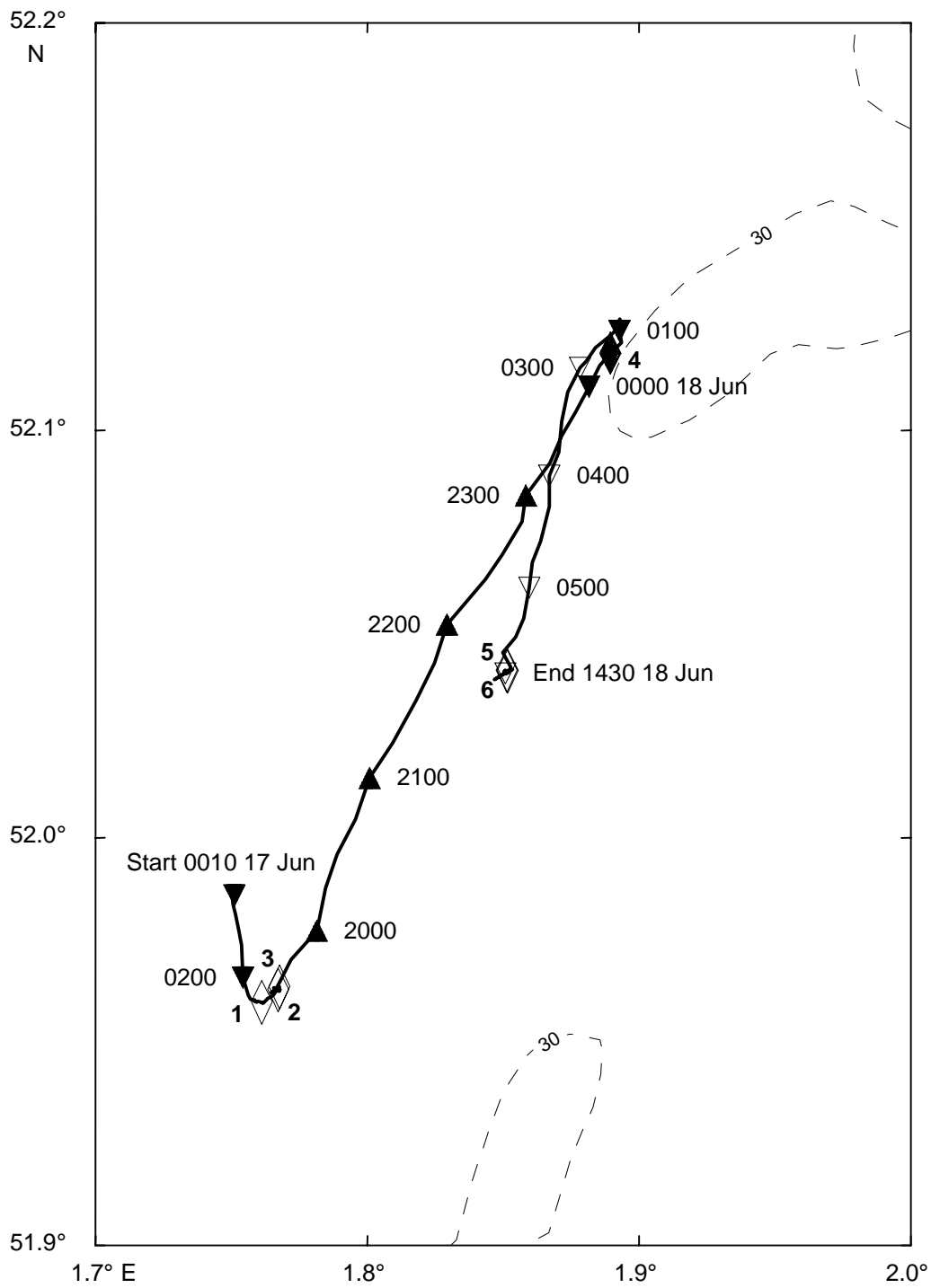


Figure 6. Ground track of Fish 3, released at 0110h, 17 June 1971

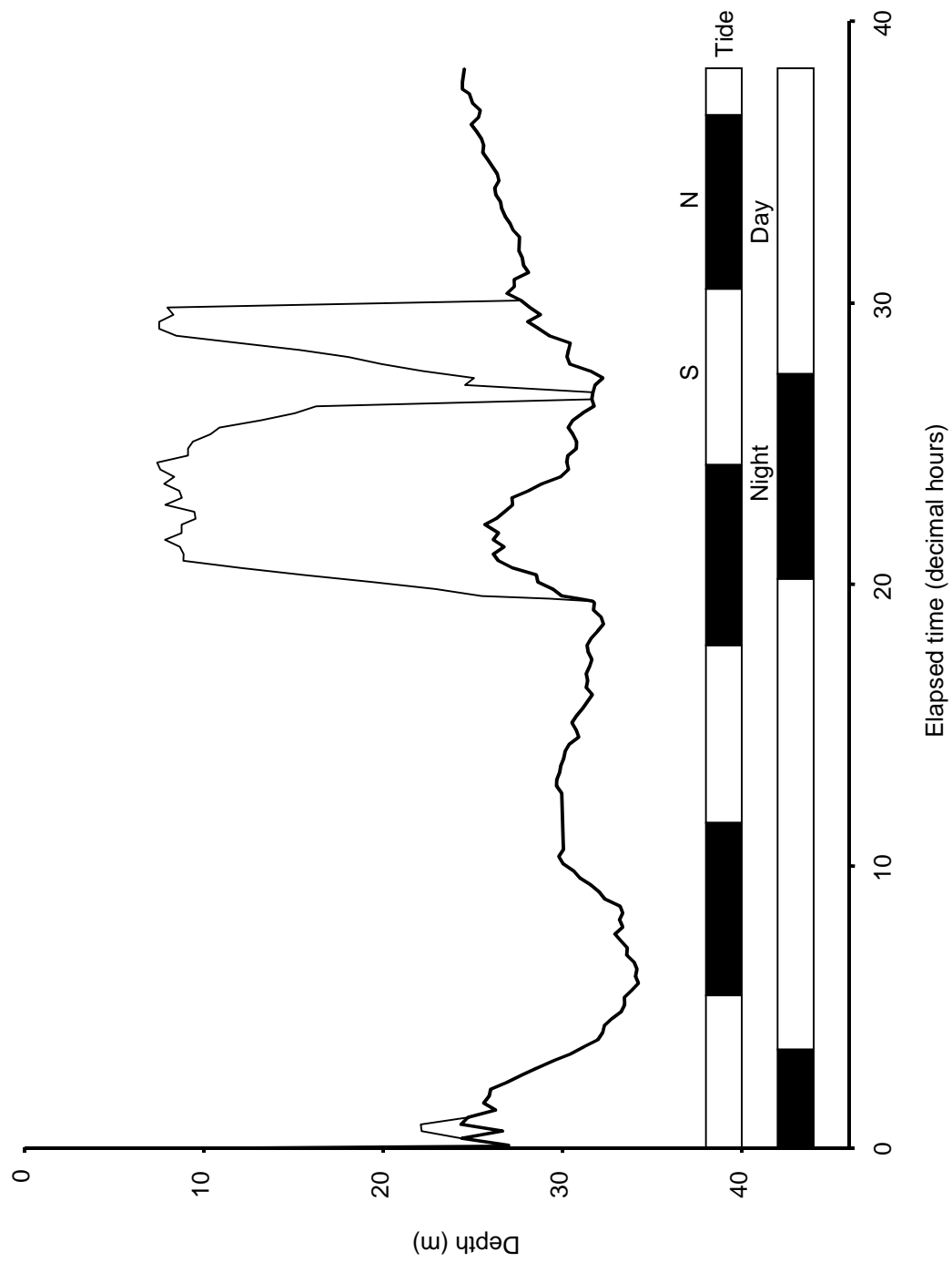


Figure 7. Vertical track of Fish 3

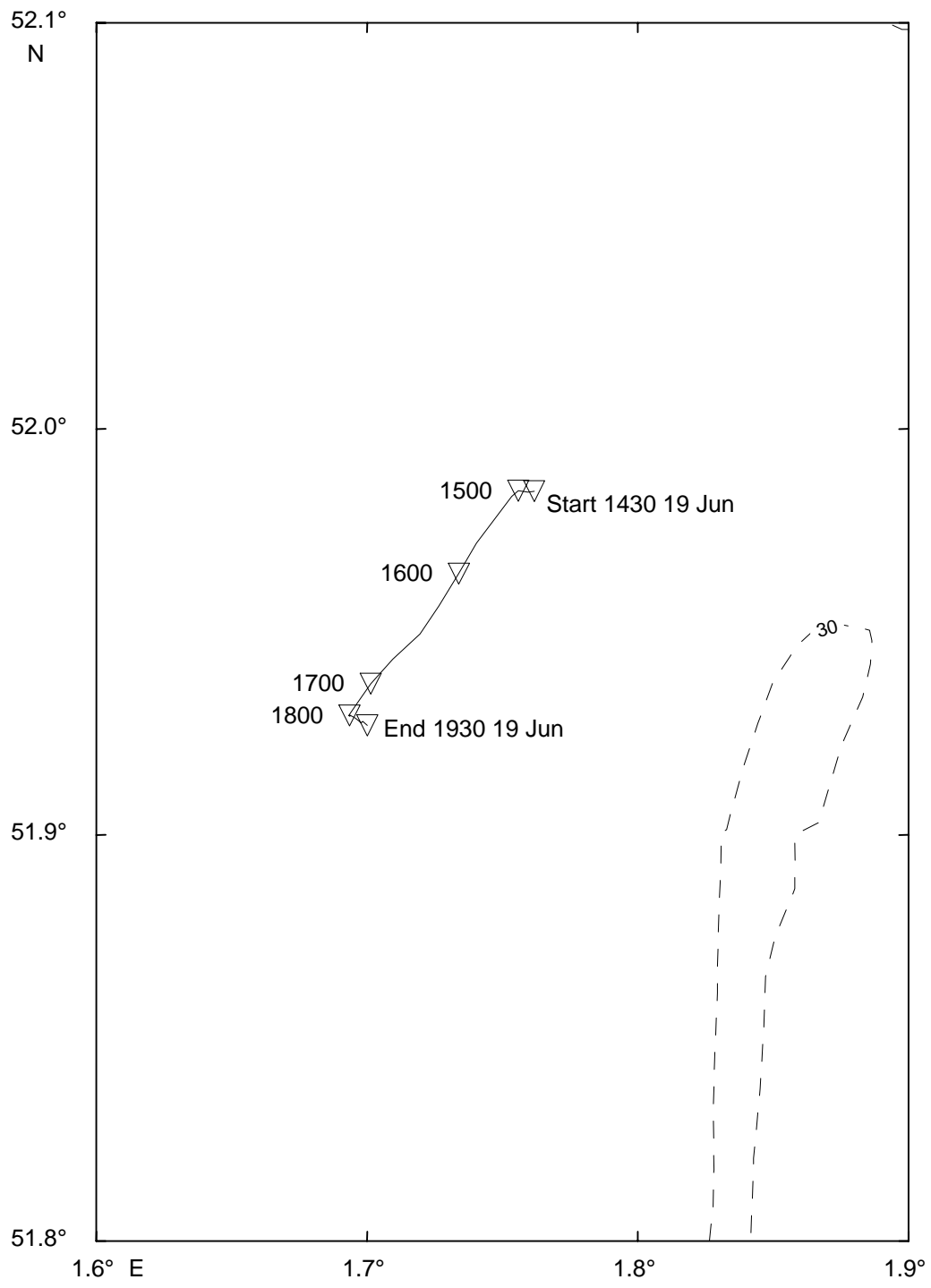


Figure 8. Ground track of Fish 4, released at 1530h, 19 June 1971

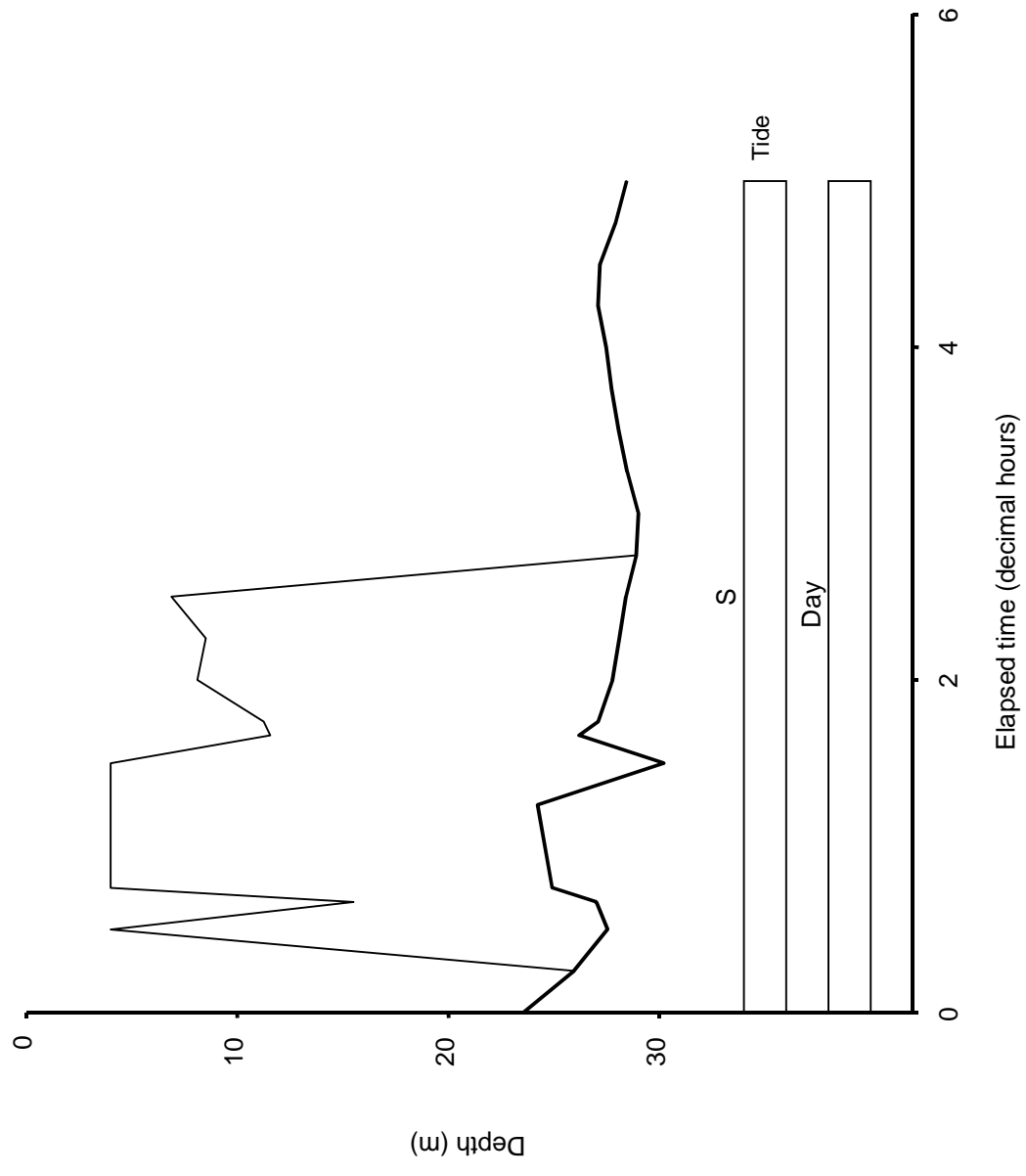


Figure 9. Vertical track of Fish 4

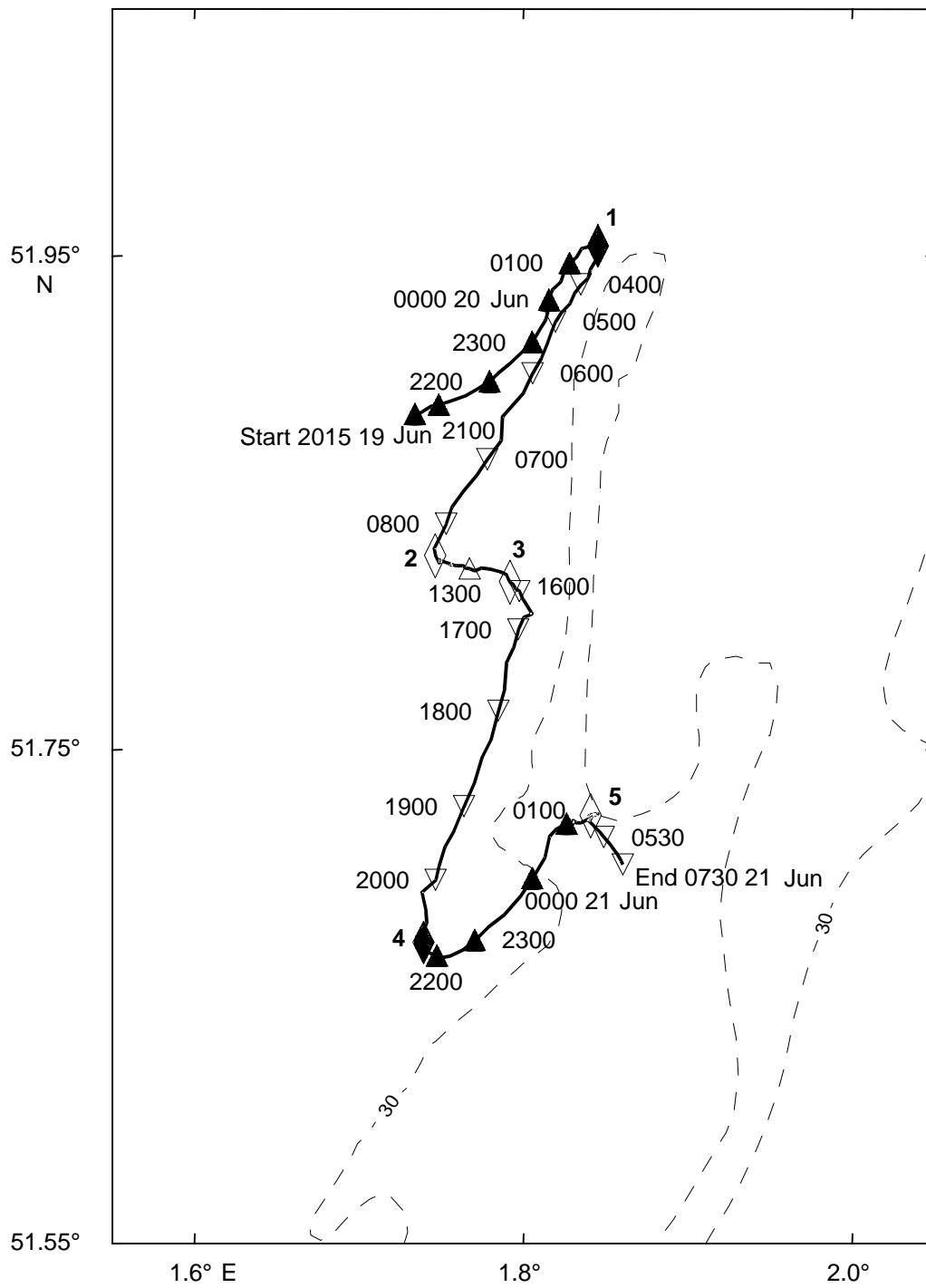


Figure 10. Ground track of Fish 5, released at 2115h, 19 June 1971

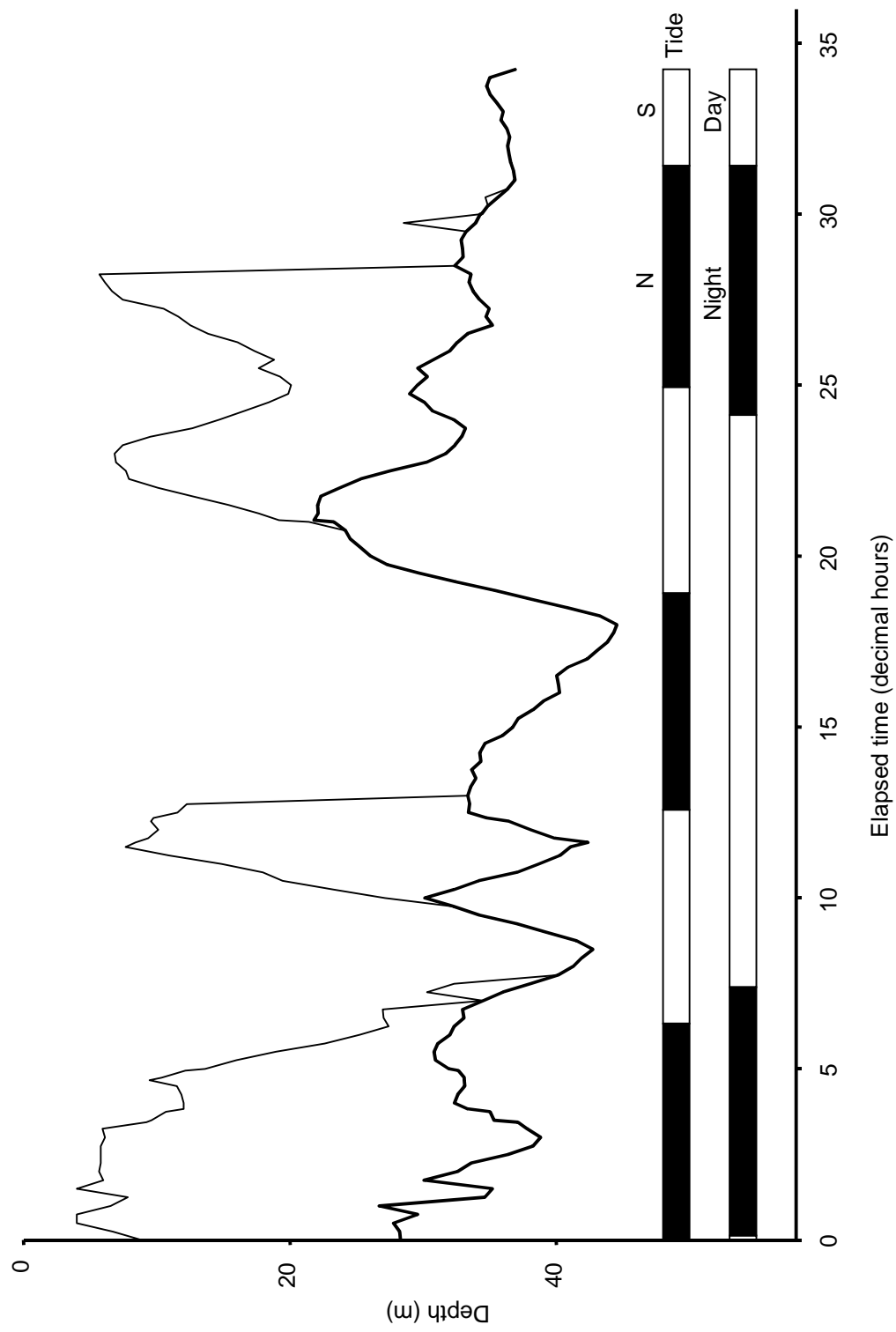


Figure 11. Vertical track of Fish 5

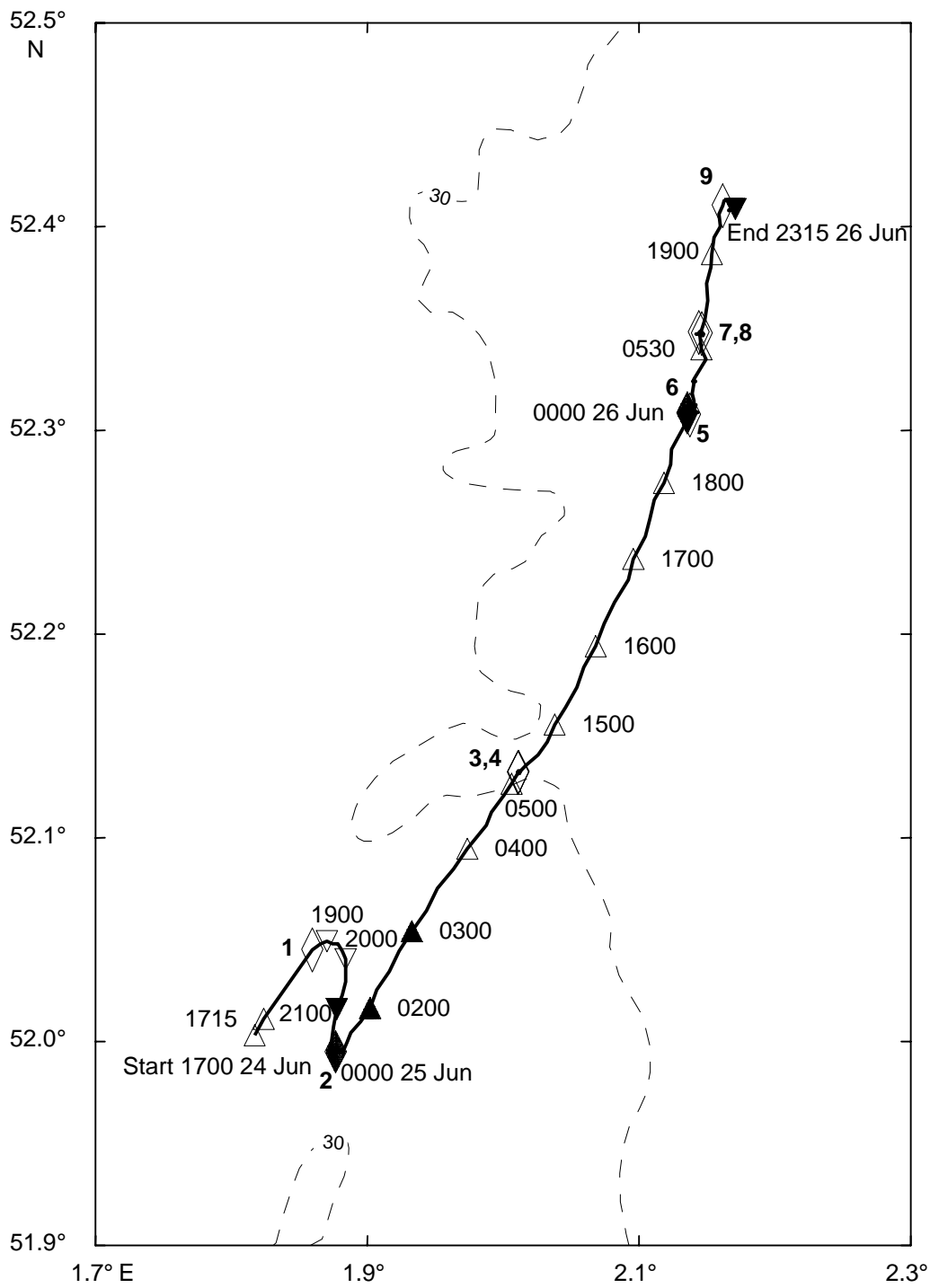


Figure 12. Ground track of Fish 6, released at 1744h, 24 June 1971

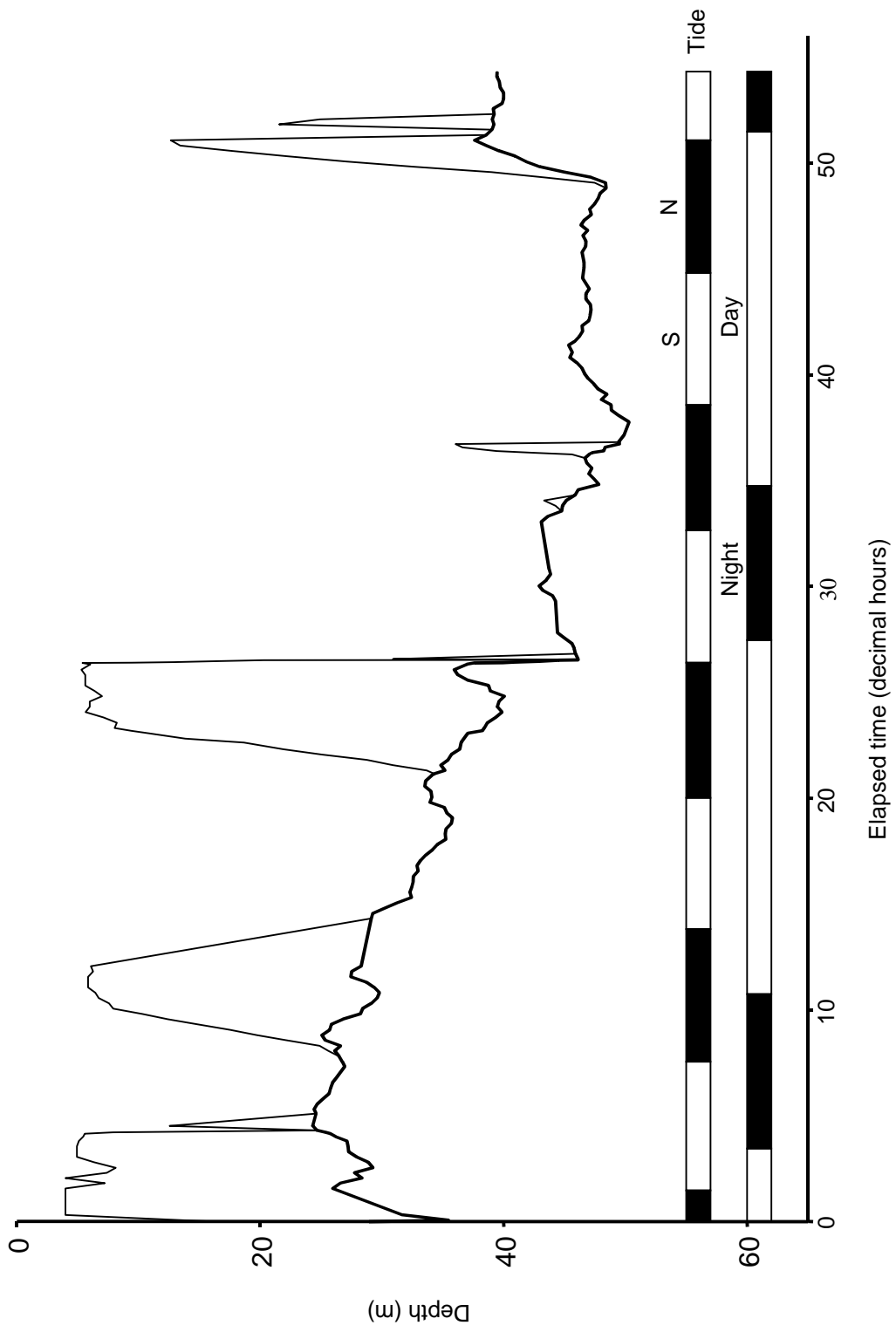


Figure 13. Vertical track of Fish 6

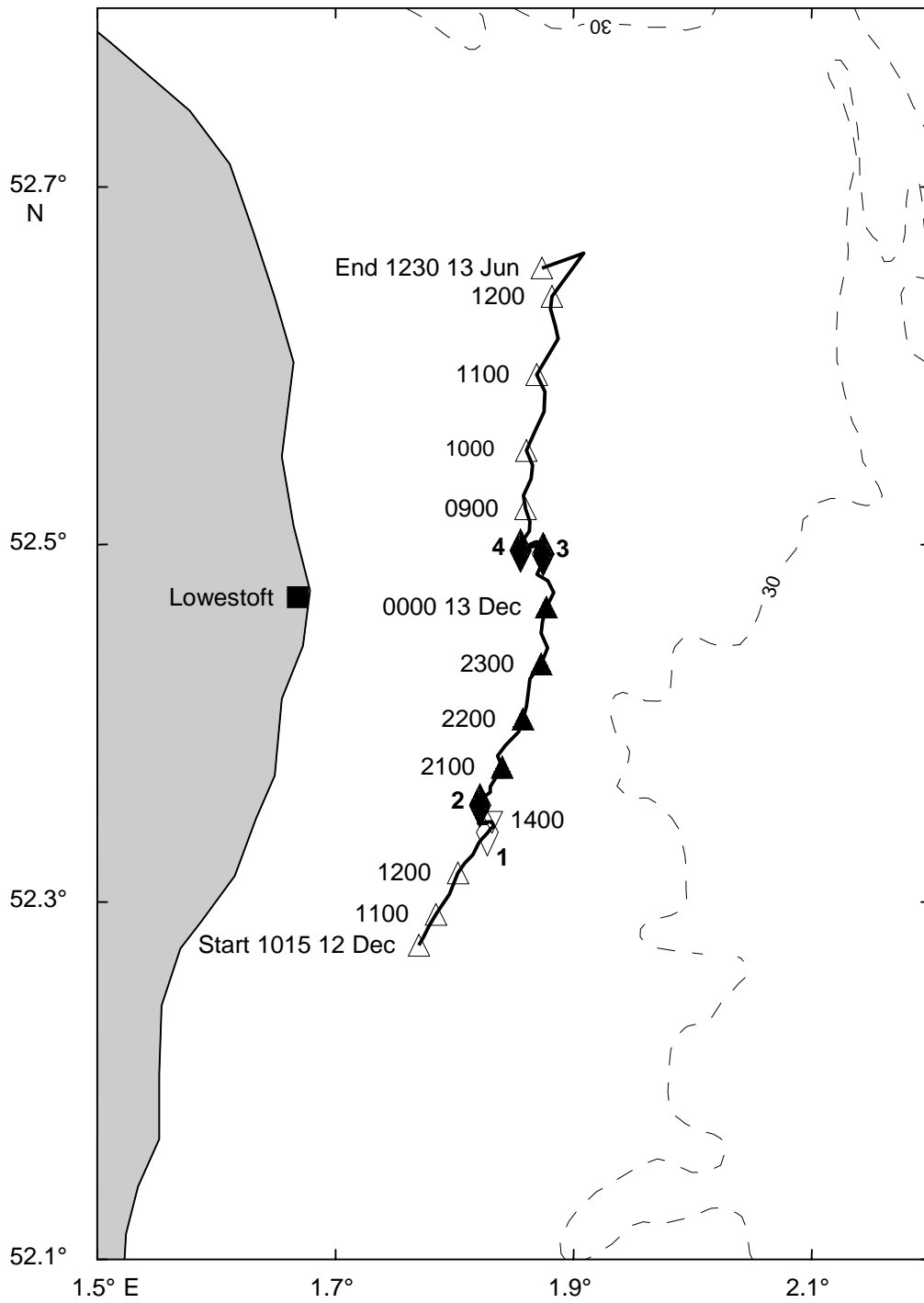


Figure 14. Ground track of Fish 7, released at 1009h, 12 December 1971

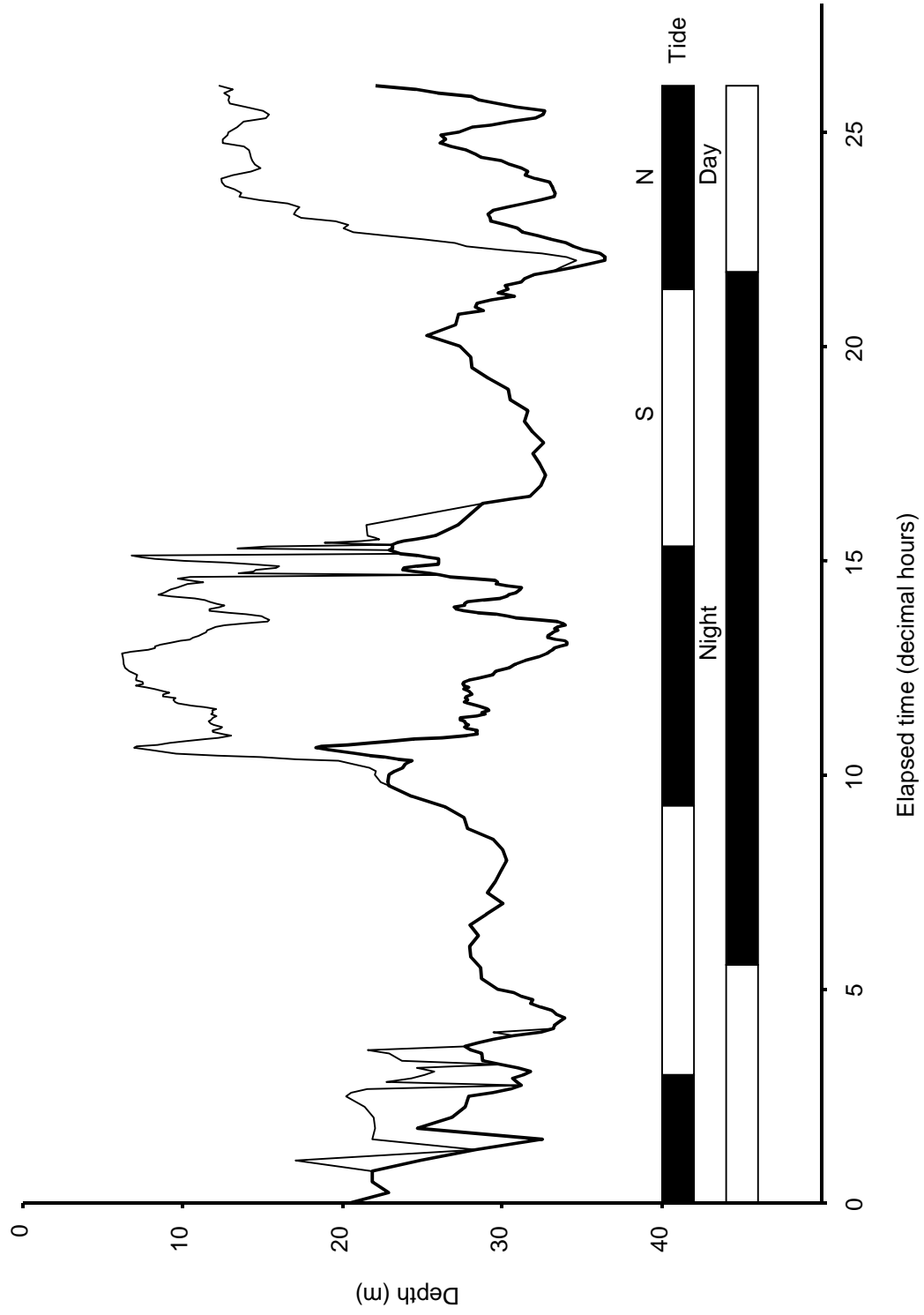


Figure 15. Vertical track of Fish 7

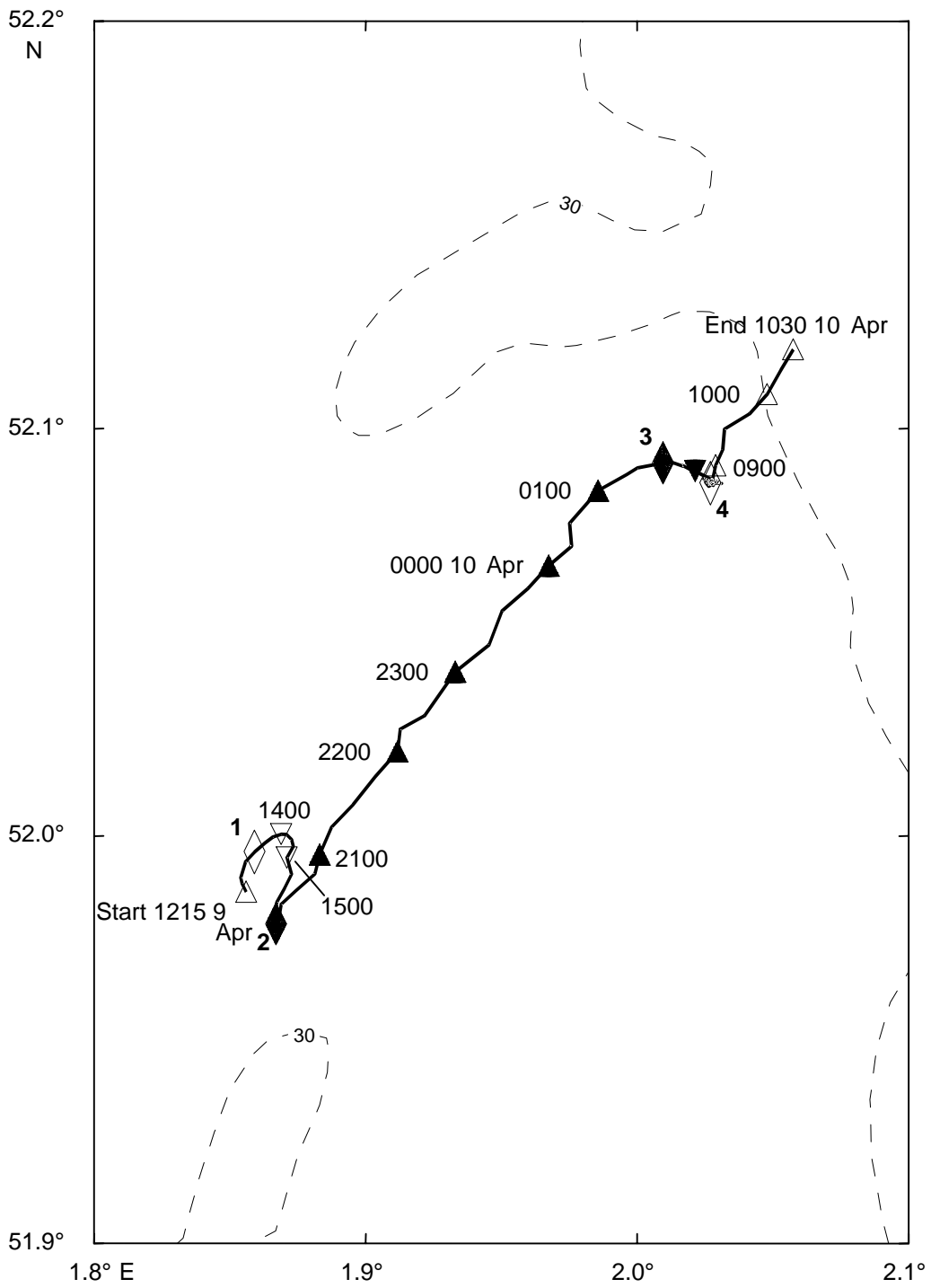


Figure 16. Ground track of Fish 8, released at 1152h, 9 April 1972

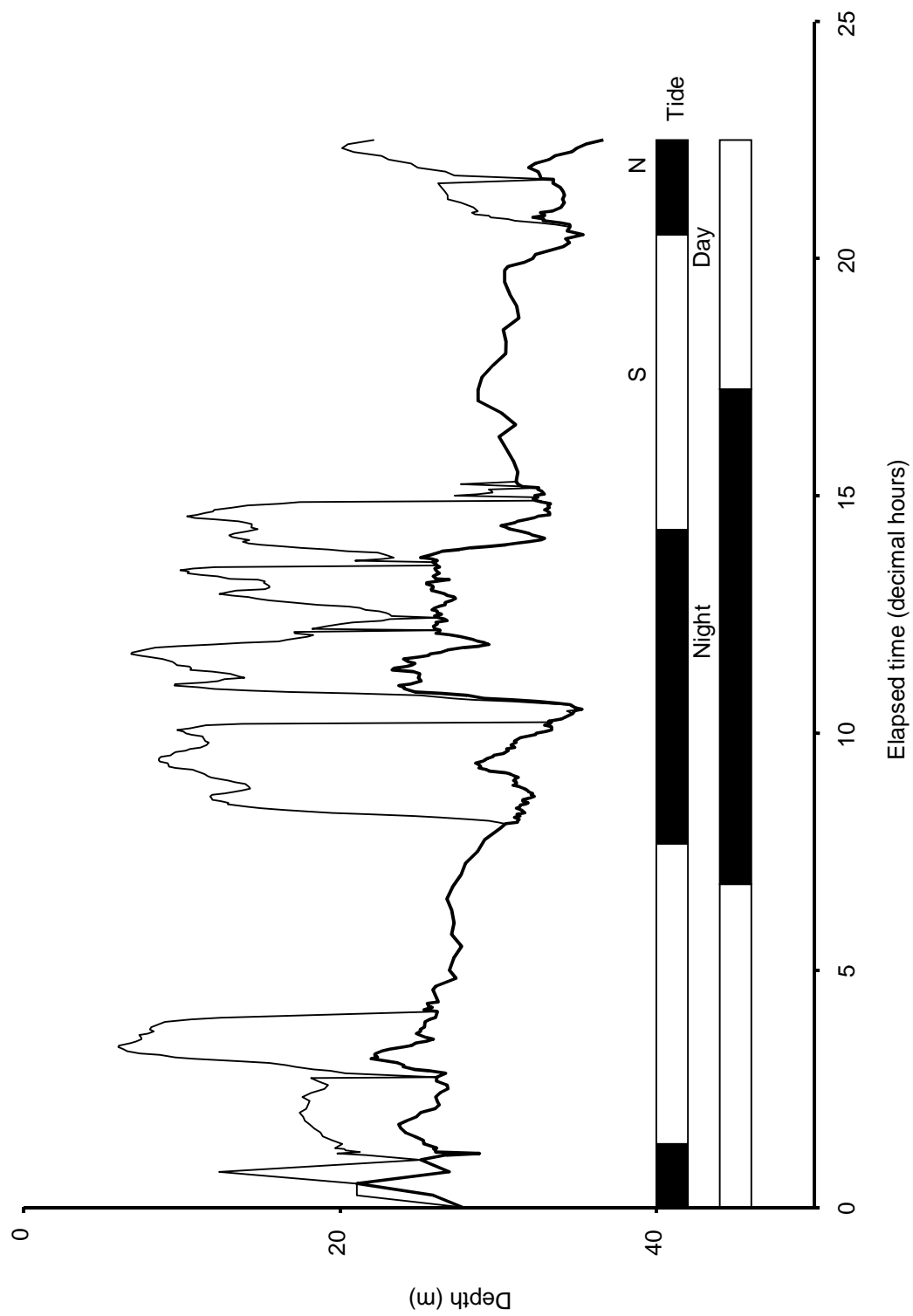


Figure 17. Vertical track of Fish 8

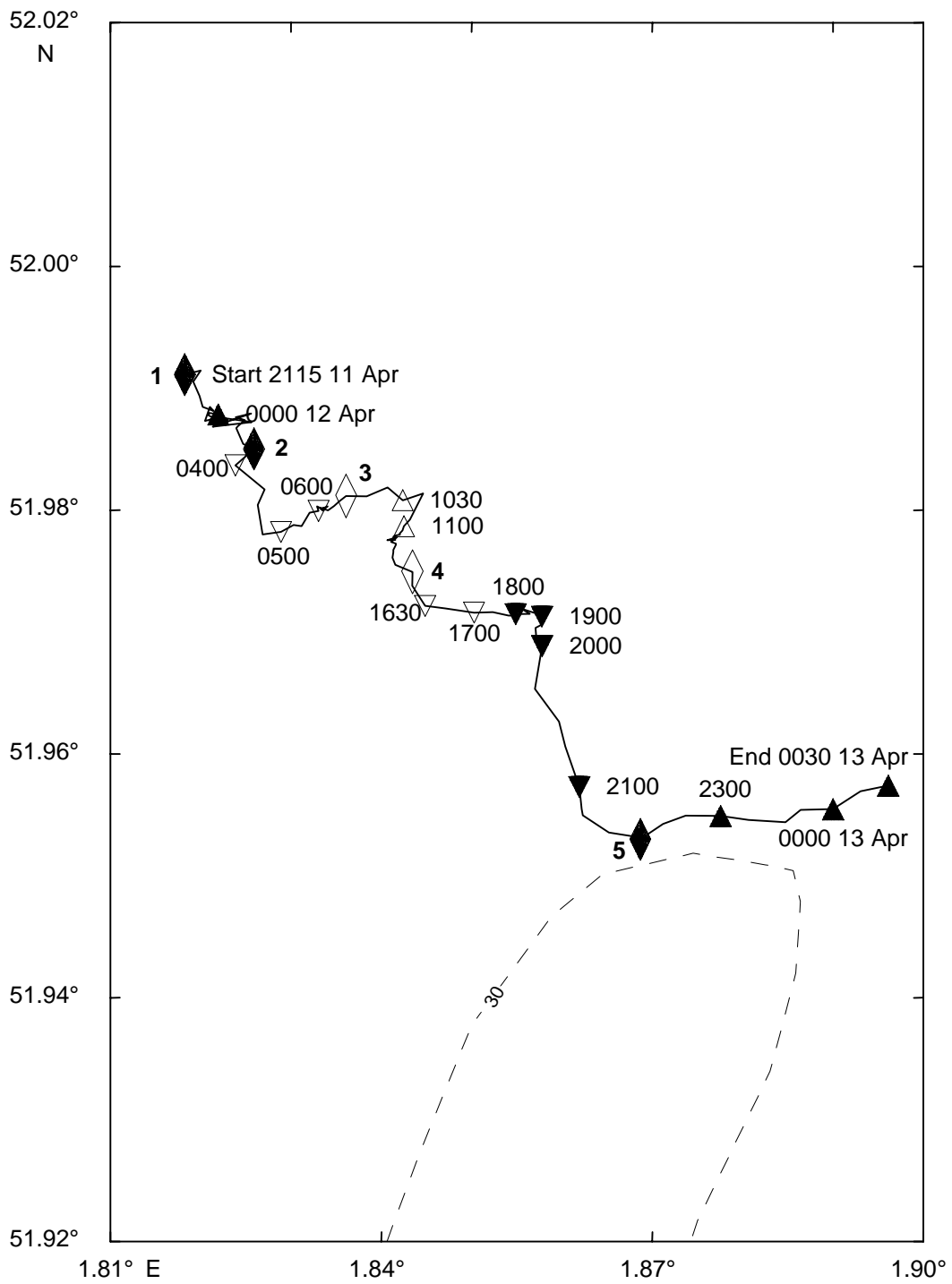


Figure 18. Ground track of Fish 9, released at 2103h, 11 April 1972

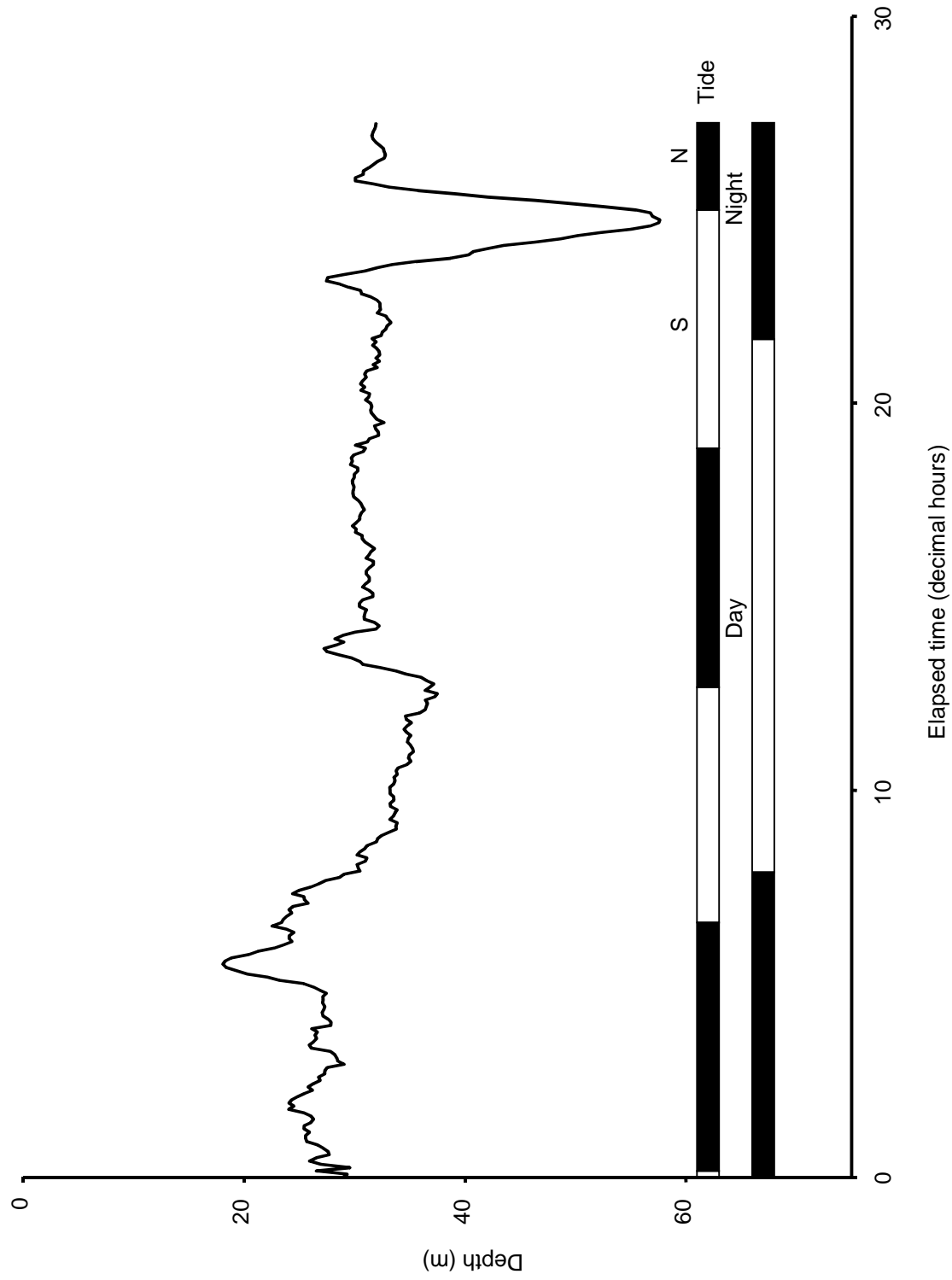


Figure 19. Vertical track of Fish 9

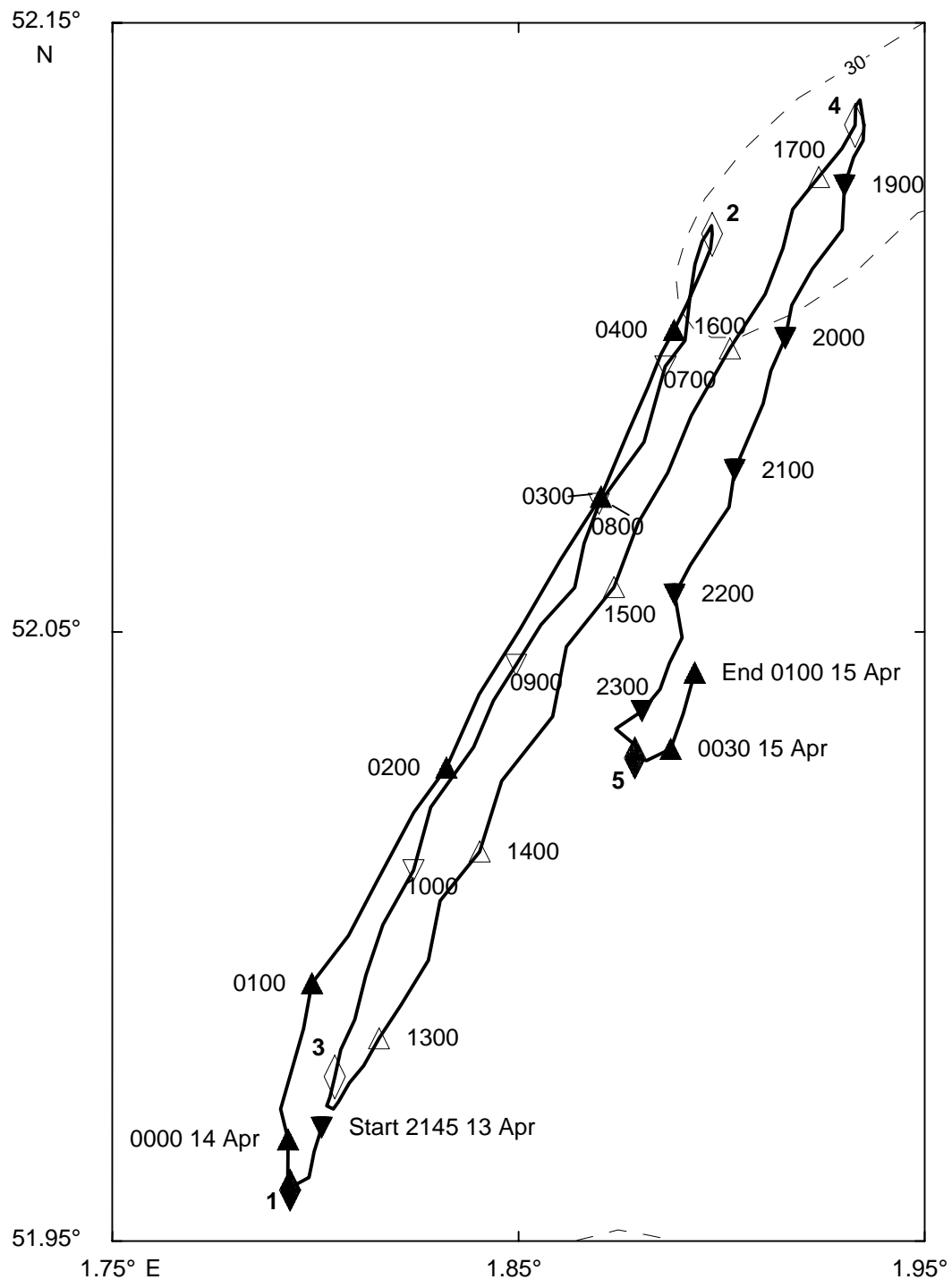


Figure 20. Ground track of Fish 10, released at 2136h, 13 April 1972

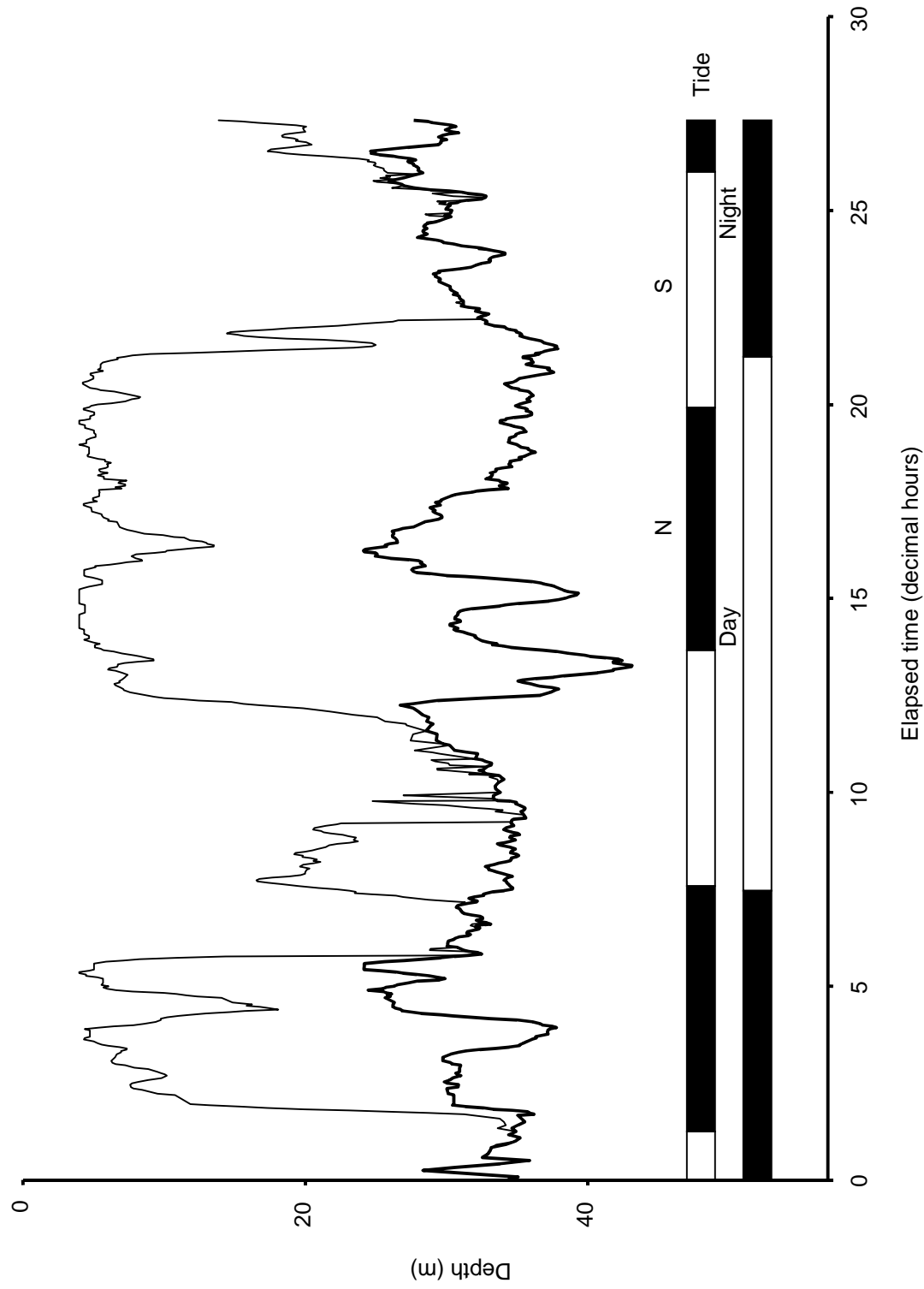


Figure 21. Vertical track of Fish 10

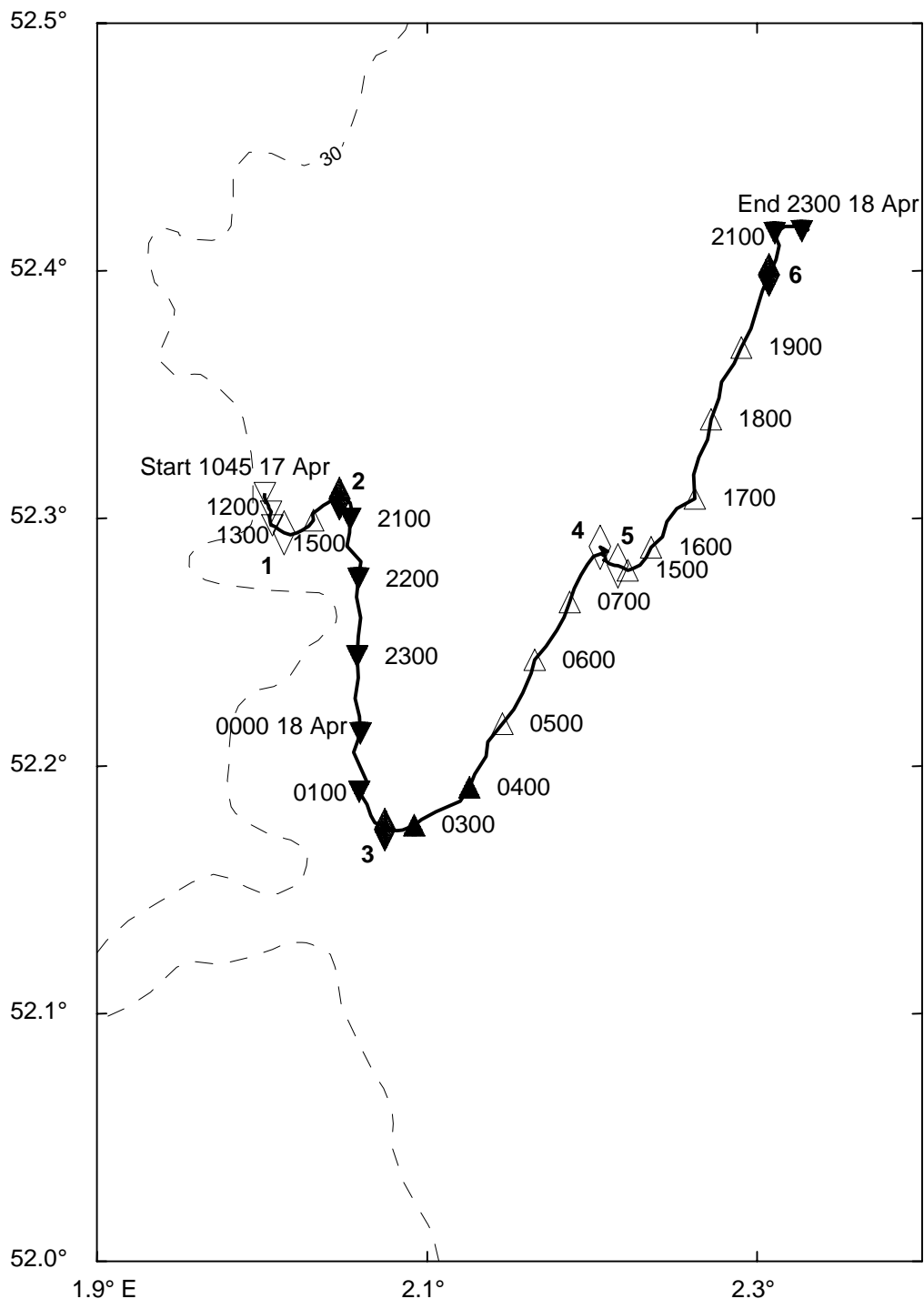


Figure 22. Ground track of Fish 11, released at 1029h, 17 April 1972

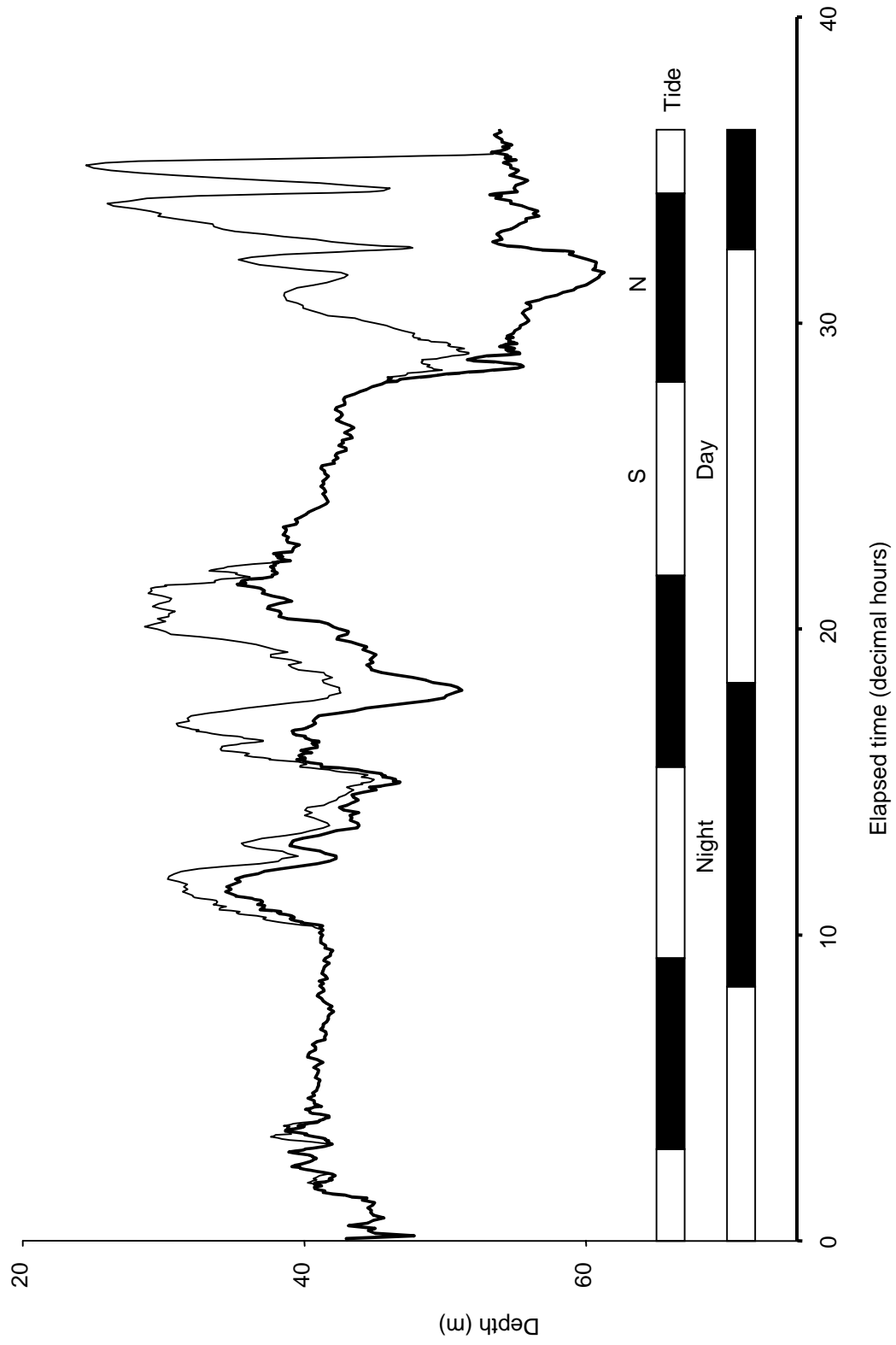


Figure 23. Vertical track of Fish 11

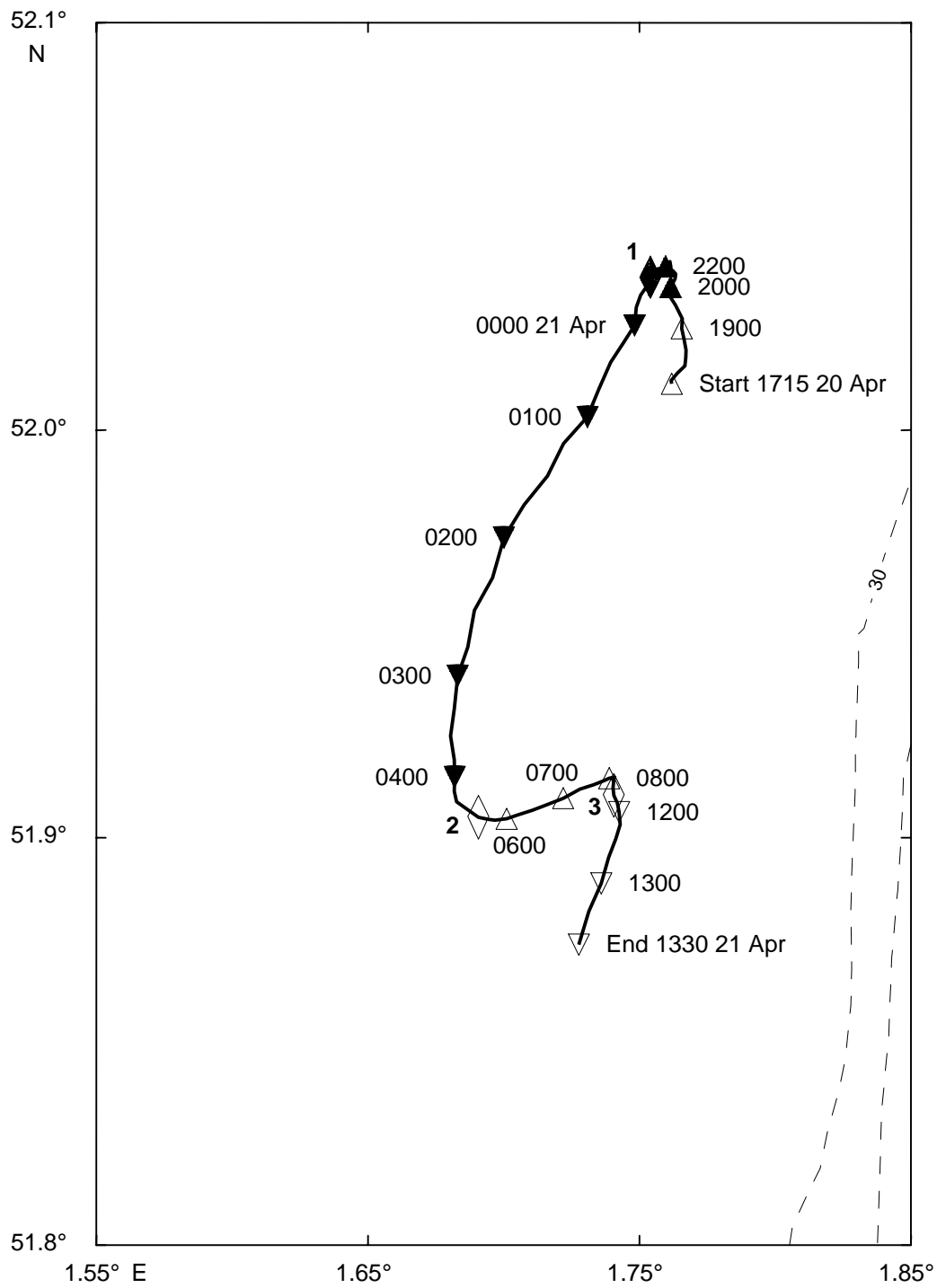


Figure 24. Ground track of Fish 12, released at 1708h, 20 April 1972

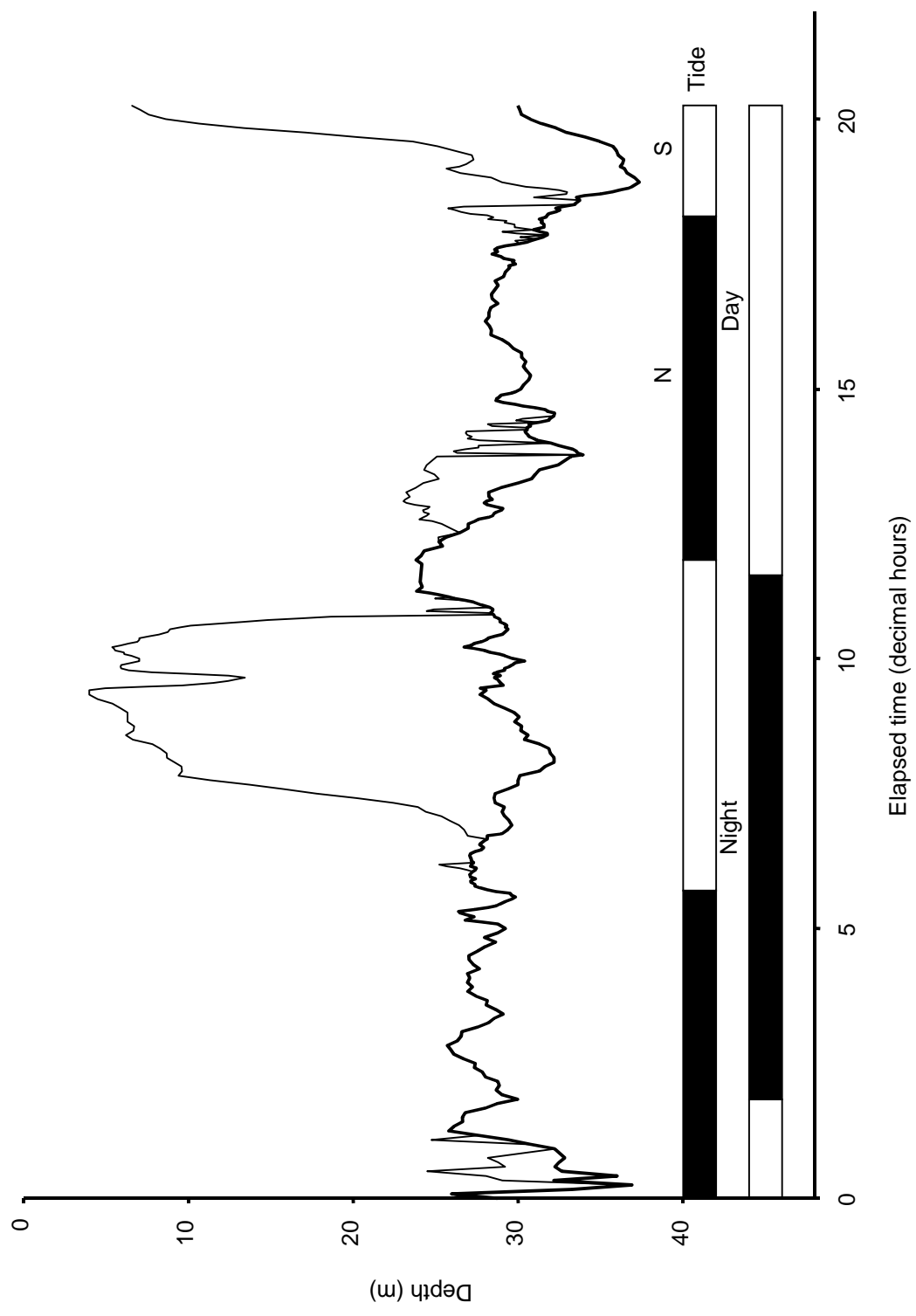


Figure 25. Vertical track of Fish 12

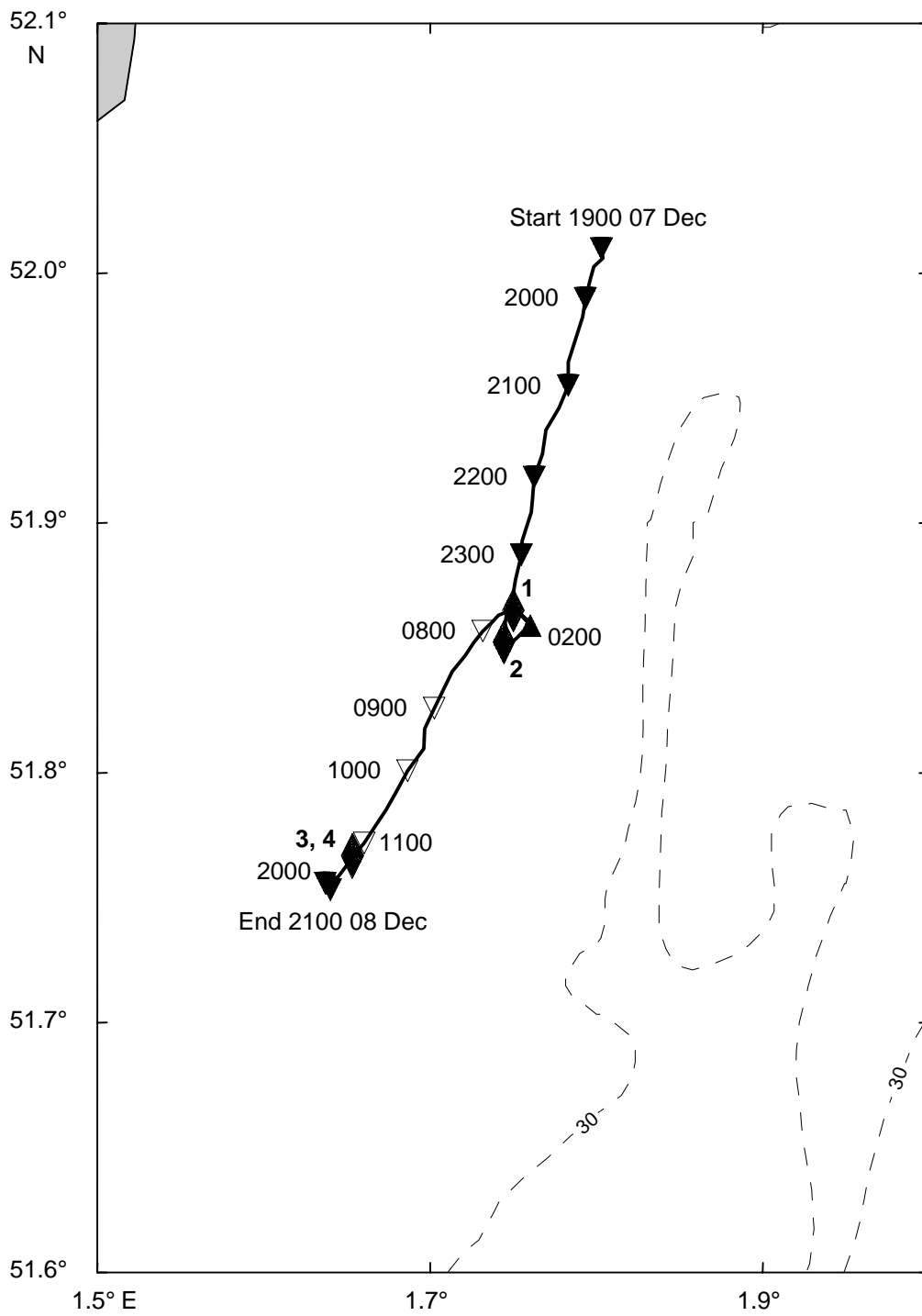


Figure 26. Ground track of Fish 13, released at 1842h, 7 December 1972

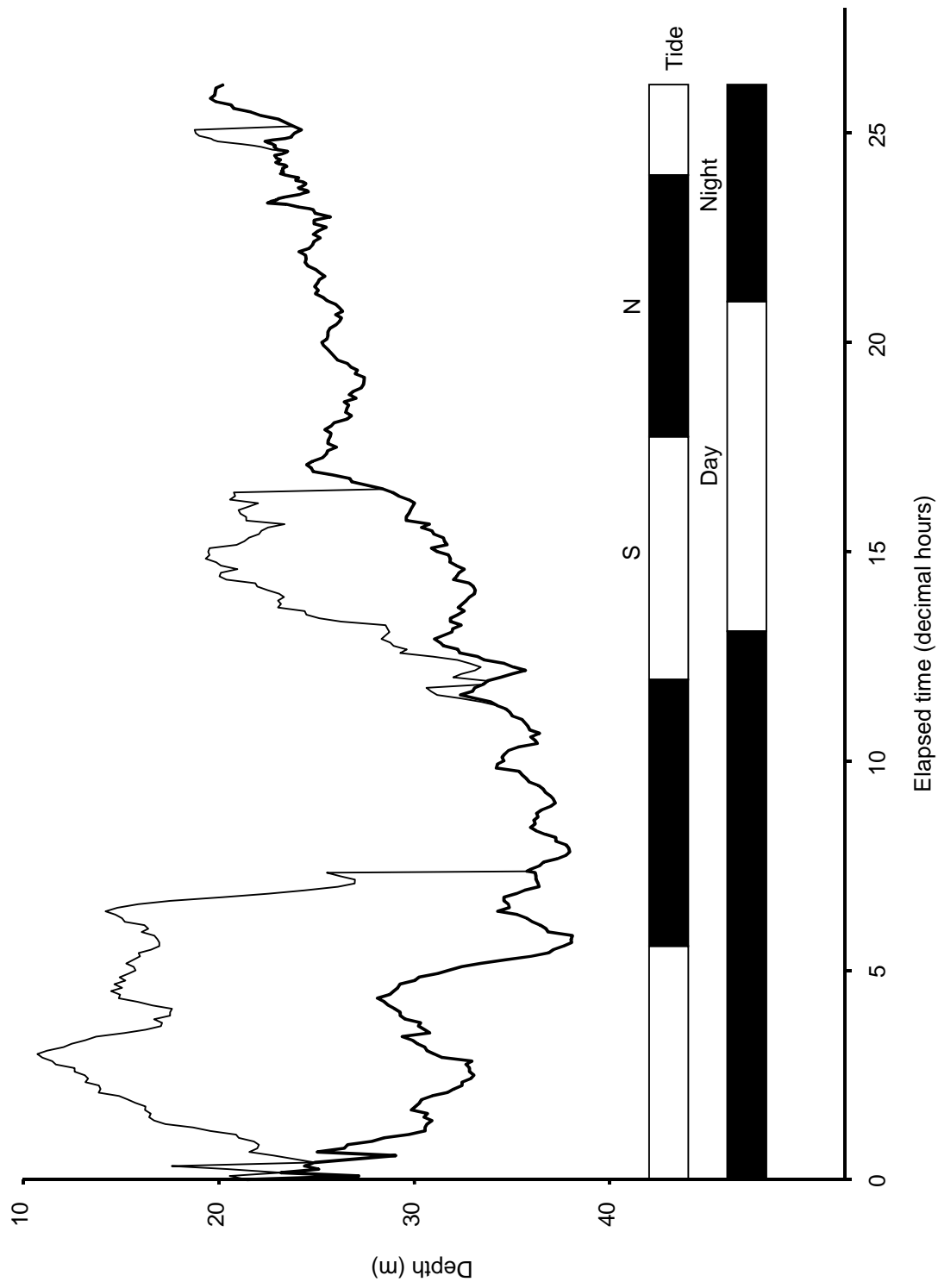


Figure 27. Vertical track of Fish 13

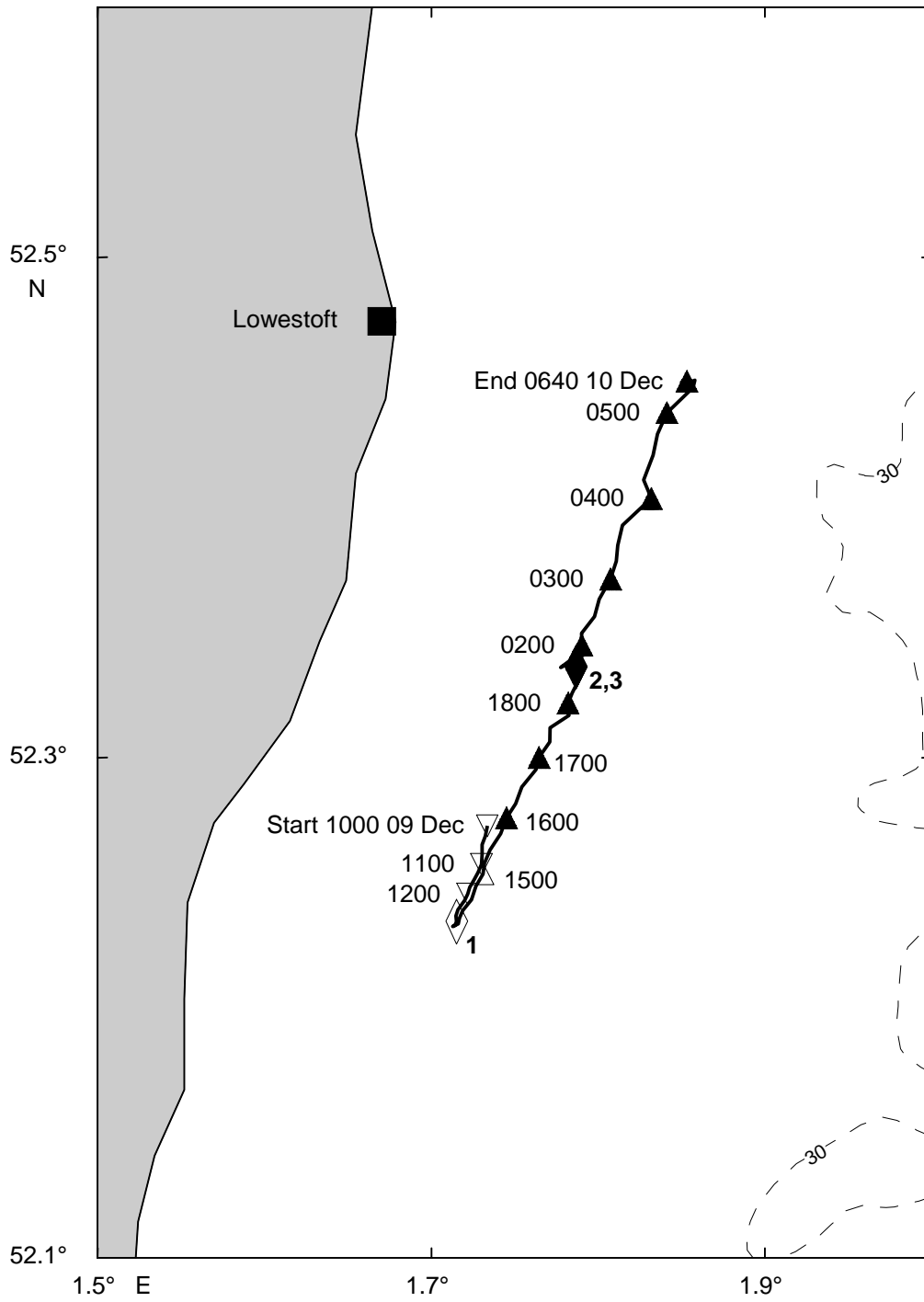


Figure 28. Ground track of Fish 14, released at 0940h, 9 December 1972

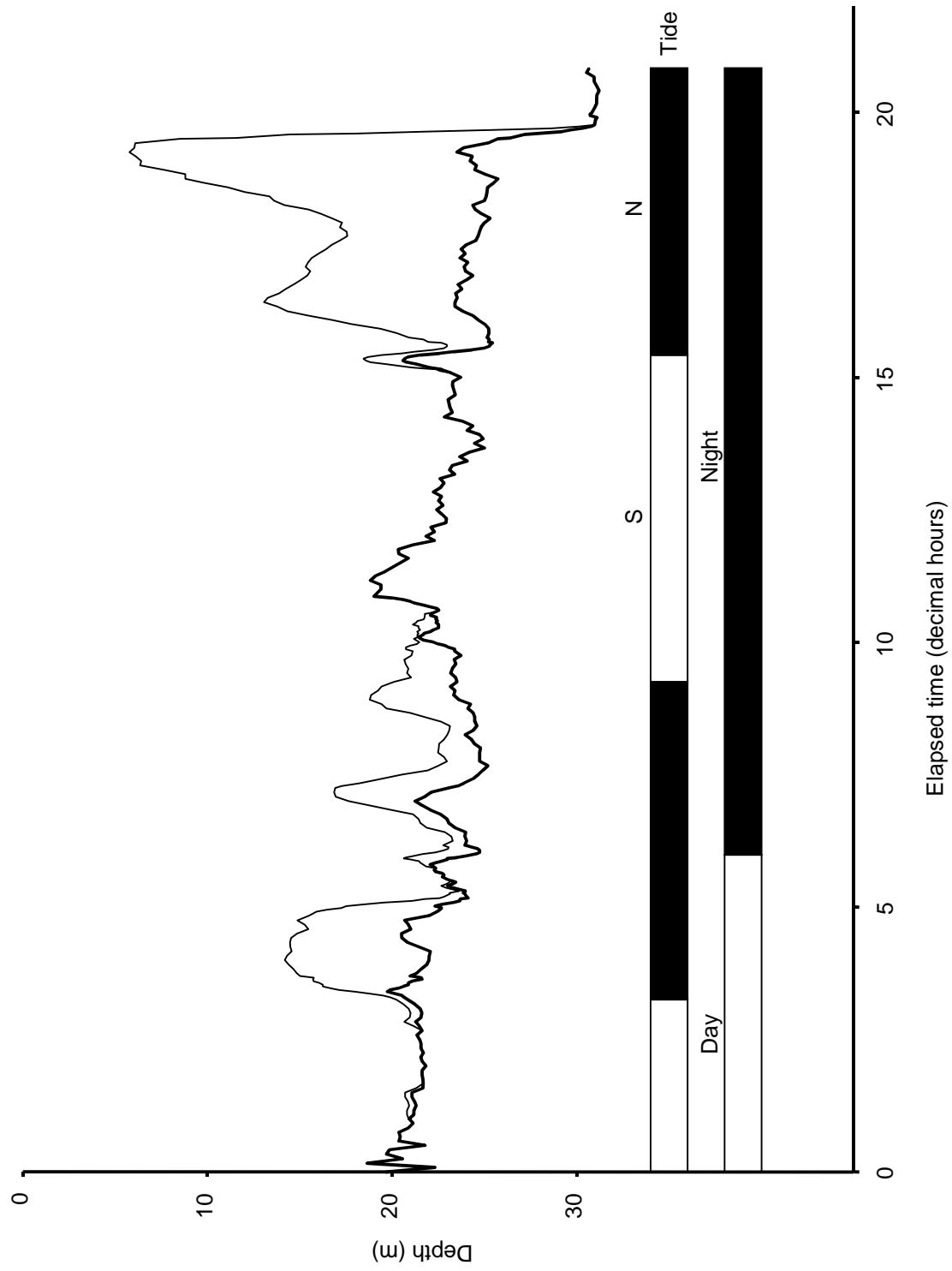


Figure 29. Vertical track of Fish 14

ANNEX 1. TRACKING DATA FOR INDIVIDUAL TAGGED FISH

Annex 1.1 Sequential geographical positions of Fish 1

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
20-Feb-71				21-Feb-71				21-Feb-71			
14:20	0.00	51.964	1.788	01:00	10.67	52.039	1.908	11:40	21.33	52.104	2.052
14:40	0.33	51.965	1.791	01:10	10.83	52.041	1.914	11:50	21.50	52.108	2.057
14:50	0.50	51.965	1.791	01:20	11.00	52.044	1.918	12:00	21.67	52.112	2.057
15:00	0.67	51.964	1.790	01:30	11.17	52.047	1.921	12:10	21.83	52.115	2.054
15:10	0.83	51.963	1.792	01:43	11.38	52.050	1.923	12:20	22.00	52.120	2.060
15:20	1.00	51.963	1.793	01:50	11.50	52.051	1.924	12:30	22.17	52.125	2.060
15:30	1.17	51.962	1.795	02:00	11.67	52.053	1.922	12:40	22.33	52.129	2.062
15:40	1.33	51.962	1.795	02:10	11.83	52.054	1.925	12:50	22.50	52.132	2.064
15:50	1.50	51.961	1.796	02:20	12.00	52.054	1.929	13:00	22.67	52.135	2.067
16:00	1.67	51.960	1.797	02:30	12.17	52.054	1.931	13:10	22.83	52.139	2.068
16:10	1.83	51.960	1.799	02:40	12.33	52.054	1.930	13:20	23.00	52.142	2.069
16:20	2.00	51.960	1.800	02:50	12.50	52.055	1.935	13:30	23.17	52.146	2.069
16:30	2.17	51.960	1.800	03:00	12.67	52.055	1.935	13:40	23.33	52.148	2.069
16:40	2.33	51.960	1.801	03:10	12.83	52.055	1.934	13:50	23.50	52.153	2.068
16:50	2.50	51.959	1.803	03:20	13.00	52.055	1.937	14:00	23.67	52.155	2.069
17:00	2.67	51.959	1.806	03:30	13.17	52.054	1.945	14:10	23.83	52.158	2.071
17:10	2.83	51.958	1.807	03:40	13.33	52.053	1.946	14:17	23.95	52.159	2.071
17:20	3.00	51.958	1.809	03:50	13.50	52.052	1.946	14:20	24.00	52.160	2.071
17:30	3.17	51.958	1.810	04:00	13.67	52.059	1.921	14:30	24.17	52.162	2.071
17:40	3.33	51.957	1.810	04:10	13.83	52.051	1.950	14:40	24.33	52.165	2.071
17:50	3.50	51.957	1.813	04:20	14.00	52.051	1.951	14:50	24.50	52.167	2.068
18:00	3.67	51.957	1.815	04:30	14.17	52.050	1.952	15:00	24.67	52.169	2.067
18:10	3.83	51.956	1.816	04:40	14.33	52.049	1.953	15:10	24.83	52.168	2.068
18:20	4.00	51.956	1.818	04:50	14.50	52.048	1.953	15:30	25.17	52.168	2.066
18:30	4.17	51.959	1.817	05:00	14.67	52.047	1.952				
18:40	4.33	51.956	1.818	05:10	14.83	52.046	1.952				
18:50	4.50	51.956	1.818	05:20	15.00	52.046	1.953				
19:00	4.67	51.956	1.819	05:30	15.17	52.045	1.954				
19:10	4.83	51.956	1.819	05:36	15.27	52.045	1.954				
19:20	5.00	51.956	1.820	05:40	15.33	52.044	1.954				
19:30	5.17	51.956	1.819	05:50	15.50	52.043	1.957				
19:40	5.33	51.957	1.820	06:00	15.67	52.042	1.956				
19:50	5.50	51.957	1.819	06:10	15.83	52.042	1.959				
20:00	5.67	51.957	1.819	06:20	16.00	52.041	1.963				
20:10	5.83	51.956	1.820	06:30	16.17	52.039	1.965				
20:20	6.00	51.957	1.820	06:40	16.33	52.039	1.965				
20:30	6.17	51.957	1.819	06:50	16.50	52.039	1.967				
20:40	6.33	51.957	1.820	07:10	16.83	52.039	1.968				
20:50	6.50	51.957	1.818	07:20	17.00	52.039	1.971				
21:00	6.67	51.957	1.819	07:30	17.17	52.040	1.971				
21:10	6.83	51.958	1.823	07:40	17.33	52.041	1.973				
21:30	7.17	51.961	1.828	07:50	17.50	52.042	1.975				
21:40	7.33	51.962	1.831	08:00	17.67	52.043	1.977				
21:50	7.50	51.965	1.836	08:10	17.83	52.044	1.980				
22:00	7.67	51.969	1.840	08:20	18.00	52.045	1.980				
22:10	7.83	51.972	1.844	08:30	18.17	52.046	1.987				
22:20	8.00	51.977	1.845	08:40	18.33	52.048	1.988				
22:30	8.17	51.982	1.849	08:50	18.50	52.051	1.989				
22:40	8.33	51.985	1.854	09:00	18.67	52.052	1.990				
22:50	8.50	51.991	1.855	09:10	18.83	52.055	1.995				
23:00	8.67	51.996	1.860	09:20	19.00	52.057	2.001				
23:10	8.83	51.999	1.865	09:30	19.17	52.059	2.004				
23:20	9.00	52.000	1.855	09:40	19.33	52.062	2.009				
23:30	9.17	52.004	1.860	09:50	19.50	52.064	2.013				
23:40	9.33	52.009	1.863	10:00	19.67	52.067	2.018				
23:50	9.50	52.010	1.850	10:10	19.83	52.071	2.020				
21-Feb-71				10:20	20.00	52.075	2.023				
00:00	9.67	52.017	1.868	10:30	20.17	52.079	2.028				
00:10	9.83	52.020	1.869	10:50	20.50	52.086	2.036				
00:20	10.00	52.023	1.877	11:00	20.67	52.090	2.039				
00:30	10.17	52.030	1.894	11:10	20.83	52.093	2.043				
00:40	10.33	52.032	1.893	11:20	21.00	52.097	2.047				
00:50	10.50	52.035	1.913	11:30	21.17	52.101	2.050				

Annex 1.2 Sequential vertical positions of Fish 1

Note: Time is measured in decimal hours. Figures in *italics* denote periods when the fish was JOB.
 Figures in **bold** denote that the fish was in mid-water but no depth was recorded (see Introduction).

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
20-Feb-71				21-Feb-71				21-Feb-71			
14:20	0.00	9.6	9.6	01:20	11.00	2.0	11.9	12:00	21.67	2.0	12.7
14:40	0.33	12.0	12.0	01:30	11.17	2.0	10.5	12:10	21.83	2.0	7.5
14:50	0.50	10.3	10.3	01:43	11.38	2.0	9.9	12:20	22.00	2.0	12.4
15:00	0.67	10.6	10.6	01:50	11.50	2.0	10.1	12:30	22.17	2.0	10.6
15:10	0.83	11.0	11.0	02:00	11.67	2.0	11.3	12:40	22.33	2.0	10.8
15:20	1.00	13.8	13.8	02:10	11.83	2.0	11.5	12:50	22.50	2.0	8.9
15:30	1.17	15.2	15.2	02:20	12.00	2.0	11.0	13:00	22.67	2.0	8.4
15:40	1.33	11.3	11.3	02:30	12.17	2.0	10.3	13:10	22.83	2.0	10.5
15:50	1.50	12.0	12.0	02:40	12.33	2.0	11.9	13:20	23.00	2.0	10.3
16:00	1.67	13.1	13.1	02:50	12.50	2.0	9.2	13:30	23.17	2.0	11.7
16:10	1.83	14.1	14.1	03:00	12.67	2.0	11.0	13:40	23.33	2.0	12.6
16:20	2.00	10.3	10.3	03:10	12.83	2.0	10.3	13:50	23.50	2.0	11.9
16:30	2.17	11.5	11.5	03:20	13.00	<i>10.6</i>	11.5	14:00	23.67	2.0	11.0
16:40	2.33	11.0	11.0	03:30	13.17	11.2	11.2	14:10	23.83	2.0	8.9
16:50	2.50	15.2	15.2	03:40	13.33	9.2	9.2	14:17	23.95	2.0	9.6
17:00	2.67	11.0	11.0	03:50	13.50	11.2	11.2	14:20	24.00	2.0	13.6
17:10	2.83	15.2	15.2	04:00	13.67	10.6	10.6	14:30	24.17	2.0	10.6
17:20	3.00	10.3	10.3	04:10	13.83	9.1	9.1	14:40	24.33	2.0	7.1
17:30	3.17	15.2	15.2	04:20	14.00	10.8	10.8	14:50	24.50	2.0	12.6
17:40	3.33	11.3	11.3	04:30	14.17	10.3	10.3	15:00	24.67	15.2	15.2
17:50	3.50	15.2	15.2	04:40	14.33	10.3	10.3	15:30	25.17	9.2	9.2
18:00	3.67	13.1	13.1	04:50	14.50	11.3	11.3				
18:10	3.83	14.5	14.5	05:00	14.67	9.6	9.6				
18:20	4.00	9.6	9.6	05:10	14.83	10.3	10.3				
18:30	4.17	11.0	11.0	05:20	15.00	12.4	12.4				
18:40	4.33	11.0	11.0	05:30	15.17	9.9	9.9				
18:50	4.50	14.5	14.5	05:36	15.27	11.3	11.3				
19:00	4.67	12.4	12.4	05:40	15.33	9.6	9.6				
19:10	4.83	11.7	11.7	05:50	15.50	10.5	10.5				
19:20	5.00	11.0	11.0	06:00	15.67	10.3	10.3				
19:30	5.17	9.9	9.9	06:10	15.83	10.3	10.3				
19:40	5.33	6.6	6.6	06:20	16.00	11.3	11.3				
19:50	5.50	7.5	7.5	06:30	16.17	11.0	11.0				
20:00	5.67	10.6	10.6	06:40	16.33	11.0	11.0				
20:10	5.83	10.3	10.3	06:50	16.50	12.0	12.0				
20:20	6.00	15.2	15.2	07:00	16.67	11.0	11.0				
20:30	6.17	9.6	9.6	07:10	16.83	9.6	9.6				
20:40	6.33	11.7	11.7	07:20	17.00	11.3	11.3				
20:50	6.50	10.6	10.6	07:30	17.17	12.7	12.7				
21:00	6.67	11.0	11.0	07:40	17.33	14.5	14.5				
21:10	6.83	2.0	11.0	07:50	17.50	15.2	15.2				
21:30	7.17	2.0	8.5	08:00	17.67	13.8	13.8				
21:40	7.33	2.0	11.0	08:10	17.83	12.4	12.4				
21:50	7.50	2.0	9.6	08:20	18.00	12.4	12.4				
22:00	7.67	2.0	8.2	08:30	18.17	10.3	10.3				
22:10	7.83	2.0	8.2	08:40	18.33	2.0	11.3				
22:20	8.00	2.0	8.2	08:50	18.50	2.0	7.8				
22:30	8.17	2.0	10.3	09:00	18.67	2.0	9.2				
22:40	8.33	2.0	7.8	09:10	18.83	2.0	8.5				
22:50	8.50	2.0	11.7	09:20	19.00	2.0	8.2				
23:00	8.67	2.0	8.9	09:30	19.17	2.0	11.7				
23:10	8.83	2.0	11.0	09:40	19.33	2.0	10.3				
23:20	9.00	2.0	11.0	09:50	19.50	2.0	11.7				
23:30	9.17	2.0	6.1	10:00	19.67	2.0	11.7				
23:40	9.33	2.0	9.2	10:10	19.83	2.0	9.2				
23:50	9.50	2.0	10.3	10:20	20.00	2.0	11.0				
21-Feb-71				10:30	20.17	2.0	10.3				
00:00	6.83	2.0	11.0	10:40	20.33	2.0	12.0				
00:10	7.17	2.0	8.5	10:50	20.50	2.0	10.6				
00:20	7.33	2.0	11.0	11:00	20.67	2.0	10.3				
00:30	7.50	2.0	9.6	11:10	20.83	2.0	12.0				
00:40	7.67	2.0	8.2	11:20	21.00	2.0	7.5				
00:50	7.83	2.0	8.2	11:30	21.17	2.0	8.2				
01:00	8.00	2.0	8.2	11:40	21.33	2.0	13.8				
01:10	8.17	2.0	10.3	11:50	21.50	2.0	11.0				

Annex 1.3 Sequential geographical positions of Fish 2

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
09-Jun-71				10-Jun-71			
13:15	0.00	51.869	1.781	14:15	25.00	52.152	1.921
13:30	0.25	51.874	1.782	14:30	25.25	52.157	1.923
13:45	0.50	51.880	1.782	14:45	25.50	52.162	1.925
17:30	4.25	51.939	1.772	17:30	28.25	52.223	1.957
18:15	5.00	51.947	1.774	17:45	28.50	52.225	1.959
18:30	5.25	51.949	1.776	18:00	28.75	52.226	1.958
18:45	5.50	51.950	1.777	18:15	29.00	52.226	1.959
19:00	5.75	51.951	1.778	18:30	29.25	52.226	1.959
19:15	6.00	51.952	1.779	18:46	29.52	52.227	1.958
19:30	6.25	51.953	1.780	19:00	29.75	52.227	1.958
19:45	6.50	51.954	1.779	19:15	30.00	52.227	1.958
20:05	6.83	51.954	1.779	19:30	30.25	52.226	1.959
20:15	7.00	51.955	1.779	19:45	30.50	52.226	1.958
20:30	7.25	51.955	1.779	20:00	30.75	52.226	1.957
20:45	7.50	51.955	1.780	20:15	31.00	52.227	1.958
21:00	7.75	51.955	1.780	20:30	31.25	52.227	1.959
21:15	8.00	51.955	1.780	20:45	31.50	52.227	1.958
21:30	8.25	51.956	1.781	21:00	31.75	52.227	1.957
21:45	8.50	51.956	1.781	21:15	32.00	52.227	1.957
22:00	8.75	51.956	1.782	21:30	32.25	52.227	1.959
22:15	9.00	51.957	1.781	21:45	32.50	52.227	1.959
22:30	9.25	51.958	1.781	22:00	32.75	52.227	1.957
22:45	9.50	51.958	1.781	22:15	33.00	52.226	1.955
23:01	9.77	51.959	1.780	22:30	33.25	52.226	1.957
23:15	10.00	51.960	1.781	22:45	33.50	52.226	1.960
23:30	10.25	51.962	1.783	23:00	33.75	52.226	1.959
23:45	10.50	51.963	1.783	23:45	34.50	52.227	1.962
10-Jun-71				11-Jun-71			
00:00	10.75	51.964	1.787	00:30	35.25	52.229	1.967
02:47	13.53	52.052	1.857	00:45	35.50	52.230	1.974
03:01	13.77	52.059	1.862	01:00	35.75	52.233	1.977
03:15	14.00	52.066	1.867	01:15	36.00	52.237	1.982
03:31	14.27	52.072	1.871	01:30	36.25	52.242	1.989
03:45	14.50	52.077	1.876	01:45	36.50	52.248	1.991
04:00	14.75	52.082	1.879	02:00	36.75	52.255	1.997
04:15	15.00	52.086	1.881	02:15	37.00	52.263	2.003
04:30	15.25	52.091	1.884	02:30	37.25	52.272	2.006
04:45	15.50	52.095	1.888	02:45	37.50	52.282	2.015
05:00	15.75	52.098	1.891	03:00	37.75	52.290	2.020
05:15	16.00	52.101	1.896	03:15	38.00	52.300	2.022
05:30	16.25	52.103	1.900	03:30	38.25	52.308	2.028
05:45	16.50	52.106	1.903	04:00	38.75	52.327	2.035
06:00	16.75	52.108	1.906	04:15	39.00	52.340	2.043
06:15	17.00	52.111	1.908	04:30	39.25	52.347	2.045
06:30	17.25	52.113	1.909	04:45	39.50	52.356	2.046
06:45	17.50	52.114	1.907	05:00	39.75	52.364	2.050
07:00	17.75	52.115	1.905	05:15	40.00	52.373	2.051
08:30	19.25	52.116	1.902	05:29	40.23	52.380	2.049
08:45	19.50	52.117	1.902	05:45	40.50	52.387	2.053
09:00	19.75	52.116	1.902	06:00	40.75	52.392	2.054
10:15	21.00	52.117	1.902	06:15	41.00	52.397	2.054
10:30	21.25	52.116	1.902	07:00	41.75	52.401	2.053
10:45	21.50	52.117	1.902	07:15	42.00	52.401	2.053
11:00	21.75	52.116	1.903				
11:15	22.00	52.116	1.903				
11:30	22.25	52.117	1.903				
11:45	22.50	52.118	1.904				
12:00	22.75	52.119	1.902				
12:15	23.00	52.121	1.903				
12:30	23.25	52.123	1.905				
12:45	23.50	52.126	1.906				
13:00	23.75	52.129	1.908				
13:45	24.50	52.136	1.900				

Annex 1.4 Sequential vertical positions of Fish 2

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
09-Jun-71				10-Jun-71			
13:13	0.00	40.0	45.4	14:30	25.28	28.8	28.8
13:15	0.03	37.7	45.3	14:45	25.53	31.0	31.0
13:30	0.28	47.9	50.4	17:30	28.28	33.5	33.5
13:45	0.53	41.4	41.4	17:45	28.53	35.3	35.3
17:30	4.28	28.6	28.6	18:00	28.78	35.7	35.7
18:15	5.03	31.0	31.0	18:15	29.03	35.7	35.7
18:30	5.28	29.6	29.6	18:30	29.28	36.4	36.4
18:45	5.53	31.0	31.0	18:46	29.55	34.3	34.3
19:00	5.78	31.7	31.7	19:00	29.78	34.3	34.3
19:15	6.03	30.6	30.6	19:15	30.03	36.9	36.9
19:30	6.28	27.0	27.0	19:30	30.28	33.2	33.2
19:45	6.53	30.1	30.1	19:45	30.53	31.2	31.2
20:05	6.87	27.5	27.5	20:00	30.78	34.6	34.6
20:15	7.03	27.0	27.0	20:15	31.03	34.5	34.5
20:30	7.28	30.2	30.1	20:30	31.28	37.0	37.0
20:45	7.53	31.0	31.0	20:45	31.53	35.3	35.3
21:00	7.78	28.0	28.0	21:00	31.78	35.3	35.3
21:15	8.03	32.2	32.2	21:15	32.03	35.3	35.3
21:30	8.28	30.8	30.8	21:30	32.28	33.9	33.9
21:45	8.53	28.0	28.0	21:45	32.53	35.2	35.2
22:00	8.78	29.6	29.6	22:00	32.78	36.4	36.4
22:15	9.03	30.4	30.4	22:15	33.03	36.1	36.1
22:30	9.28	31.8	31.8	22:30	33.28	36.1	36.1
22:45	9.53	33.2	33.2	22:45	33.53	36.1	36.1
23:01	9.80	34.5	34.5	23:00	33.78	36.9	36.9
23:15	10.03	32.2	32.2	23:45	34.53	31.8	31.8
23:30	10.28	31.1	31.1	11-Jun-71			
23:45	10.53	41.5	41.5	00:08	34.92	30.4	33.7
10-Jun-71				00:30	35.28	31.0	35.1
00:00	10.78	32.2	32.2	00:45	35.53	32.2	35.3
03:01	13.80	28.4	28.4	01:00	35.78	29.8	35.5
03:15	14.03	29.0	29.0	01:15	36.03	27.2	33.7
03:31	14.30	29.0	29.0	01:30	36.28	21.8	36.4
03:45	14.53	34.8	34.8	01:45	36.53	19.7	35.3
04:00	14.78	37.5	37.4	02:00	36.78	23.9	37.0
04:15	15.03	33.3	33.3	02:15	37.03	20.0	32.0
04:30	15.28	33.8	33.8	02:30	37.28	19.4	34.6
04:45	15.53	30.2	30.2	02:45	37.53	25.3	34.4
05:00	15.78	33.2	33.2	03:00	37.78	26.5	37.6
05:15	16.03	29.6	29.6	03:15	38.03	32.5	39.6
05:30	16.28	31.2	31.2	03:30	38.28	25.9	32.2
05:45	16.53	30.1	30.1	04:00	38.78	30.1	35.2
06:00	16.78	31.9	31.9	04:15	39.03	31.8	34.5
06:15	17.03	31.9	31.9	04:30	39.28	24.9	35.3
06:30	17.28	36.4	36.4	04:45	39.53	29.9	39.8
06:45	17.53	31.8	31.8	05:00	39.78	30.6	33.5
07:00	17.78	33.7	33.7	05:15	40.03	30.1	35.2
08:30	19.28	34.5	34.5	05:29	40.27	30.6	32.5
08:45	19.53	33.2	33.2	05:45	40.53	35.2	35.2
09:00	19.78	34.8	34.8	06:00	40.78	37.1	43.1
10:15	21.03	31.2	31.2	06:15	41.03	40.3	40.3
10:30	21.28	33.3	33.2	07:00	41.78	42.2	42.2
10:45	21.53	35.7	35.7	07:15	42.03	38.9	38.9
11:00	21.78	33.7	33.7				
11:15	22.03	35.2	35.2				
11:30	22.28	33.7	33.7				
11:45	22.53	35.4	35.4				
12:00	22.78	33.5	33.5				
12:15	23.03	31.8	31.8				
12:30	23.28	33.5	33.5				
12:45	23.53	33.2	33.2				
13:00	23.78	29.1	29.1				
13:45	24.53	32.6	32.6				
14:00	24.78	33.0	33.0				
14:15	25.03	33.7	33.7				

Annex 1.5 Sequential geographical positions of Fish 3

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
17-Jun-71	00:10	51.986	1.751	17-Jun-71	17:15	51.963	1.766	18-Jun-71	09:00	52.041	1.851
00:15	0.08	51.986	1.752	17:30	17.33	51.963	1.766	09:15	33.08	52.041	1.851
00:30	0.33	51.985	1.750	17:45	17.58	51.963	1.766	09:30	33.33	52.041	1.851
00:45	0.58	51.984	1.750	18:00	17.83	51.963	1.768	09:45	33.58	52.041	1.851
01:00	0.83	51.981	1.751	18:15	18.08	51.963	1.767	10:00	33.83	52.041	1.851
01:15	1.08	51.977	1.753	18:30	18.33	51.963	1.766	10:15	34.08	52.041	1.851
01:30	1.33	51.974	1.754	18:45	18.58	51.963	1.766	10:30	34.33	52.041	1.851
01:45	1.58	51.970	1.754	19:00	18.83	51.963	1.766	10:45	34.58	52.041	1.851
02:00	1.83	51.966	1.754	19:15	19.08	51.963	1.766	11:00	34.83	52.041	1.851
02:15	2.08	51.961	1.756	19:30	19.33	51.964	1.767	11:15	35.08	52.041	1.853
02:30	2.33	51.960	1.757	19:45	19.58	51.970	1.772	11:30	35.33	52.041	1.851
02:45	2.58	51.960	1.758	20:00	19.83	51.977	1.781	11:45	35.58	52.039	1.847
03:00	2.83	51.960	1.758	20:15	20.08	51.988	1.785	12:00	35.83	52.041	1.852
03:15	3.08	51.960	1.758	20:30	20.33	51.996	1.789	12:15	36.08	52.041	1.852
03:30	3.33	51.960	1.759	20:45	20.58	52.005	1.796	12:30	36.33	52.040	1.851
03:45	3.58	51.960	1.759	21:00	20.83	52.015	1.801	12:45	36.58	52.041	1.852
04:00	3.83	51.960	1.760	21:15	21.08	52.023	1.809	13:00	36.83	52.041	1.850
04:15	4.08	51.960	1.759	21:30	21.33	52.034	1.818	13:15	37.08	52.041	1.852
04:30	4.33	51.960	1.759	21:45	21.58	52.043	1.825	13:36	37.43	52.041	1.851
04:45	4.58	51.960	1.759	22:00	21.83	52.052	1.829	13:45	37.58	52.041	1.850
05:00	4.83	51.960	1.760	22:18	22.13	52.063	1.843	14:00	37.83	52.040	1.851
05:15	5.08	51.959	1.762	22:30	22.33	52.069	1.850	14:30	38.33	52.040	1.851
05:30	5.33	51.960	1.761	22:45	22.58	52.078	1.857				
05:45	5.58	51.960	1.762	23:00	22.83	52.084	1.858				
06:00	5.83	51.960	1.762	23:15	23.08	52.092	1.867				
06:15	6.08	51.960	1.763	23:30	23.33	52.099	1.872				
06:30	6.33	51.961	1.763	23:45	23.58	52.104	1.877				
06:45	6.58	51.961	1.764	18-Jun-71							
07:00	6.83	51.961	1.765	00:00	23.83	52.111	1.882				
07:15	7.08	51.962	1.765	00:15	24.08	52.116	1.886				
07:30	7.33	51.962	1.766	00:30	24.33	52.119	1.889				
07:45	7.58	51.962	1.766	00:45	24.58	52.122	1.894				
08:00	7.83	51.962	1.765	01:00	24.83	52.124	1.893				
08:15	8.08	51.962	1.765	01:15	25.08	52.127	1.893				
08:30	8.33	51.962	1.765	01:30	25.33	52.127	1.893				
08:45	8.58	51.962	1.765	01:45	25.58	52.127	1.893				
09:00	8.83	51.962	1.765	02:00	25.83	52.125	1.892				
09:15	9.08	51.962	1.765	02:15	26.08	52.123	1.890				
09:30	9.33	51.962	1.766	02:30	26.33	52.120	1.884				
09:45	9.58	51.962	1.766	02:45	26.58	52.117	1.881				
10:00	9.83	51.963	1.767	03:00	26.83	52.115	1.878				
10:15	10.08	51.963	1.767	03:15	27.08	52.109	1.874				
10:30	10.33	51.963	1.768	03:30	27.33	52.102	1.872				
10:45	10.58	51.963	1.767	03:45	27.58	52.095	1.870				
11:00	10.83	51.963	1.767	04:00	27.83	52.089	1.867				
12:45	12.58	51.963	1.768	04:15	28.08	52.081	1.867				
13:00	12.83	51.963	1.767	04:30	28.33	52.073	1.864				
13:15	13.08	51.962	1.768	04:45	28.58	52.068	1.861				
13:30	13.33	51.963	1.767	05:00	28.83	52.061	1.860				
13:45	13.58	51.963	1.767	05:15	29.08	52.054	1.858				
14:00	13.83	51.963	1.767	05:30	29.33	52.049	1.855				
14:15	14.08	51.963	1.766	05:45	29.58	52.045	1.850				
14:30	14.33	51.962	1.767	06:00	29.83	52.042	1.853				
14:45	14.58	51.963	1.767	06:15	30.08	52.041	1.852				
15:00	14.83	51.963	1.766	06:30	30.33	52.041	1.851				
15:15	15.08	51.963	1.766	06:45	30.58	52.041	1.851				
15:30	15.33	51.963	1.766	07:00	30.83	52.041	1.851				
15:45	15.58	51.963	1.766	07:15	31.08	52.041	1.852				
16:00	15.83	51.963	1.766	07:30	31.33	52.041	1.851				
16:15	16.08	51.963	1.766	07:45	31.58	52.041	1.851				
16:30	16.33	51.963	1.766	08:00	31.83	52.041	1.851				
16:45	16.58	51.963	1.766	08:30	32.33	52.041	1.851				
17:00	16.83	51.963	1.766	08:45	32.58	52.041	1.851				

Annex 1.6 Sequential vertical positions of Fish 3

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
17-Jun-71				17-Jun-71				18-Jun-71			
00:10	0.00	8.7	25.8	17:45	17.58	32.0	32.0	09:30	33.33	26.6	26.5
00:15	0.08	27.0	27.0	18:00	17.83	32.0	32.0	09:45	33.58	25.9	25.9
00:30	0.33	24.4	24.4	18:15	18.08	32.0	32.0	10:00	33.83	25.9	25.9
00:45	0.58	22.1	26.7	18:30	18.33	31.8	31.8	10:15	34.08	26.6	26.5
01:00	0.83	22.1	24.3	18:45	18.58	31.8	31.8	10:30	34.33	27.0	27.0
01:15	1.08	24.7	24.7	19:00	18.83	30.6	30.6	10:45	34.58	24.7	24.7
01:30	1.33	26.3	26.3	19:15	19.08	32.2	32.2	11:00	34.83	24.1	24.1
01:45	1.58	28.0	28.0	19:30	19.33	31.4	31.4	11:15	35.08	24.7	24.7
02:00	1.83	27.5	27.5	19:34	19.40	15.2	26.3	11:30	35.33	26.3	26.3
02:15	2.08	30.8	30.8	19:40	19.50	5.6	25.8	11:45	35.58	24.9	24.9
02:30	2.33	32.6	32.6	19:45	19.58	13.8	28.3	12:00	35.83	24.8	24.8
02:45	2.58	30.2	30.2	20:00	19.83	7.1	25.9	12:15	36.08	24.7	24.7
03:00	2.83	30.8	30.8	20:15	20.08	4.0	30.0	12:30	36.33	27.7	27.7
03:15	3.08	33.2	33.2	20:30	20.33	7.8	22.7	12:45	36.58	24.7	24.7
03:30	3.33	33.2	33.2	20:45	20.58	8.7	25.8	13:00	36.83	21.8	21.8
03:45	3.58	32.9	32.9	21:00	20.83	15.3	24.3	13:15	37.08	24.9	24.9
04:00	3.83	32.7	32.7	21:15	21.08	4.0	30.0	13:36	37.43	22.3	22.3
04:15	4.08	33.2	33.2	21:30	21.33	8.0	24.0	13:45	37.58	24.9	24.9
04:30	4.33	33.2	33.2	21:45	21.58	13.6	28.0	14:00	37.83	25.4	25.4
04:45	4.58	34.5	34.5	22:00	21.83	4.0	24.7	14:30	38.33	30.1	30.0
05:00	4.83	34.6	34.6	22:18	22.13	13.3	27.1				
05:15	5.08	33.0	33.0	22:30	22.33	8.2	29.1				
05:30	5.33	35.7	35.7	22:45	22.58	4.0	27.5				
05:45	5.58	35.3	35.3	23:00	22.83	10.5	29.7				
06:00	5.83	32.2	32.2	23:15	23.08	7.0	30.6				
06:15	6.08	33.8	33.8	23:30	23.33	7.7	33.2				
06:30	6.33	33.3	33.2	23:45	23.58	8.0	32.0				
06:45	6.58	31.8	31.8	18-Jun-71							
07:00	6.83	33.2	33.2	00:00	23.83	7.8	30.2				
07:15	7.08	33.3	33.2	00:15	24.08	7.1	28.4				
07:30	7.33	32.9	32.9	00:30	24.33	16.0	28.0				
07:45	7.58	35.3	35.3	00:45	24.58	10.5	32.9				
08:00	7.83	32.5	32.5	01:00	24.83	8.9	30.7				
08:15	8.08	34.5	34.5	01:15	25.08	14.5	31.8				
08:30	8.33	30.8	30.8	01:30	25.33	11.5	30.2				
08:45	8.58	27.2	27.2	01:45	25.58	24.1	32.0				
09:00	8.83	31.1	31.1	02:00	25.83	20.0	32.0				
09:15	9.08	29.6	29.6	02:15	26.08	24.5	32.6				
09:30	9.33	31.0	31.0	02:30	26.33	28.0	32.0				
09:45	9.58	30.1	30.0	02:45	26.58	31.2	31.2				
10:00	9.83	30.6	30.6	03:00	26.83	32.6	32.6				
10:15	10.08	29.0	29.0	03:15	27.08	15.0	33.2				
10:30	10.33	29.1	29.1	03:30	27.33	4.0	27.0				
10:45	10.58	30.9	30.9	03:45	27.58	4.0	24.0				
11:00	10.83	29.1	29.1	04:00	27.83	11.6	31.7				
12:45	12.58	29.0	29.0	04:15	28.08	9.2	32.6				
13:00	12.83	30.2	30.1	04:30	28.33	7.5	31.8				
13:15	13.08	31.7	31.7	04:45	28.58	8.1	24.5				
13:30	13.33	29.6	29.6	05:00	28.83	8.2	29.1				
13:45	13.58	30.1	30.1	05:15	29.08	4.0	22.7				
14:00	13.83	31.4	31.4	05:30	29.33	9.6	29.0				
14:15	14.08	30.7	30.7	05:45	29.58	9.2	27.5				
14:30	14.33	32.8	32.7	06:00	29.83	11.6	29.2				
14:45	14.58	29.1	29.1	06:15	30.08	26.3	26.3				
15:00	14.83	30.1	30.1	06:30	30.33	27.5	27.5				
15:15	15.08	31.4	31.4	06:45	30.58	29.0	29.0				
15:30	15.33	32.5	32.5	07:00	30.83	28.4	28.4				
15:45	15.58	33.2	33.2	07:15	31.08	27.2	27.2				
16:00	15.83	32.5	32.5	07:30	31.33	27.0	27.0				
16:15	16.08	30.4	30.4	07:45	31.58	27.8	27.8				
16:30	16.33	29.6	29.6	08:00	31.83	26.5	26.5				
16:45	16.58	29.6	29.6	08:30	32.33	24.9	24.9				
17:00	16.83	32.7	32.7	08:45	32.58	27.7	27.7				
17:15	17.08	33.5	33.5	09:00	32.83	26.6	26.6				
17:30	17.33	31.8	31.8	09:15	33.08	25.9	25.9				

Annex 1.7 Sequential geographical positions of Fish 4

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
19-Jun-71			
14:30	0.00	51.985	1.762
14:45	0.25	51.984	1.759
15:00	0.50	51.985	1.756
15:15	0.75	51.983	1.753
15:45	1.25	51.972	1.740
16:00	1.50	51.964	1.734
16:15	1.75	51.956	1.727
16:30	2.00	51.949	1.720
16:45	2.25	51.943	1.710
17:00	2.50	51.937	1.701
17:15	2.75	51.932	1.696
17:30	3.00	51.929	1.693
17:45	3.25	51.929	1.694
18:00	3.50	51.929	1.694
18:15	3.75	51.929	1.694
18:30	4.00	51.930	1.694
18:45	4.25	51.929	1.696
19:00	4.50	51.928	1.698
19:15	4.75	51.928	1.698
19:30	5.00	51.927	1.700

Annex 1.8 Sequential vertical positions of Fish 4

Note: Time is measured in decimal hours. Figures in *italics* denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
19-Jun-71			
14:30	0.00	23.5	23.5
14:45	0.25	26.0	26.0
15:00	0.50	4.0	27.5
15:10	0.67	15.5	27.0
15:15	0.75	4.0	24.9
15:45	1.25	4.0	24.2
16:00	1.50	4.0	30.2
16:10	1.67	21.3	29.8
16:15	1.75	4.0	30.7
16:30	2.00	6.9	29.8
16:45	2.25	4.0	29.2
17:00	2.50	4.0	28.4
17:15	2.75	24.9	24.9
17:30	3.00	26.5	26.5
17:45	3.25	27.0	27.0
18:00	3.50	28.4	28.4
18:15	3.75	28.0	28.0
18:30	4.00	26.5	26.5
18:45	4.25	29.1	29.1
19:00	4.50	30.1	30.0
19:15	4.75	30.1	30.1
19:30	5.00	31.0	31.0

Annex 1.9 Sequential geographical positions of Fish 5

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
19-Jun-71				20-Jun-71				21-Jun-71			
21:15	0.00	51.886	1.734	12:45	15.50	51.825	1.759	04:00	30.75	51.724	1.845
21:30	0.25	51.887	1.738	13:00	15.75	51.825	1.762	04:15	31.00	51.724	1.841
21:45	0.50	51.889	1.744	13:15	16.00	51.824	1.763	04:30	31.25	51.723	1.840
22:00	0.75	51.890	1.749	13:30	16.25	51.824	1.764	04:45	31.50	51.723	1.841
22:15	1.00	51.891	1.756	13:45	16.50	51.824	1.765	05:00	31.75	51.723	1.840
22:30	1.25	51.894	1.765	14:00	16.75	51.823	1.767	05:15	32.00	51.723	1.840
22:45	1.50	51.896	1.772	14:15	17.00	51.823	1.770	05:30	32.25	51.723	1.841
23:00	1.75	51.899	1.779	14:30	17.25	51.824	1.774	05:45	32.50	51.722	1.841
23:15	2.00	51.902	1.784	14:45	17.50	51.823	1.778	06:00	32.75	51.721	1.840
23:30	2.25	51.906	1.791	15:00	17.75	51.823	1.781	06:15	33.00	51.717	1.847
23:45	2.50	51.911	1.799	15:15	18.00	51.822	1.786	06:30	33.25	51.715	1.849
20-Jun-71				15:30	18.25	51.822	1.787	06:45	33.50	51.712	1.853
00:00	2.75	51.915	1.805	15:45	18.50	51.821	1.790	07:00	33.75	51.708	1.857
00:15	3.00	51.921	1.811	16:00	18.75	51.819	1.791	07:15	34.00	51.705	1.859
00:30	3.25	51.924	1.813	16:15	19.00	51.818	1.792	07:30	34.25	51.703	1.860
00:45	3.50	51.928	1.815	16:30	19.25	51.817	1.794				
01:00	3.75	51.932	1.816	16:45	19.50	51.815	1.795				
01:15	4.00	51.937	1.818	17:00	19.75	51.814	1.798				
01:30	4.25	51.940	1.823	17:15	20.00	51.811	1.800				
01:45	4.50	51.943	1.825	17:30	20.25	51.805	1.805				
02:00	4.75	51.947	1.828	17:45	20.50	51.804	1.800				
02:15	5.00	51.950	1.832	18:00	20.75	51.799	1.797				
02:30	5.25	51.953	1.835	18:15	21.00	51.791	1.794				
02:45	5.50	51.954	1.842	18:30	21.25	51.785	1.790				
03:00	5.75	51.955	1.844	18:45	21.50	51.774	1.788				
03:15	6.00	51.954	1.848	19:00	21.75	51.766	1.785				
03:30	6.25	51.954	1.845	19:15	22.00	51.754	1.780				
03:45	6.50	51.953	1.845	19:30	22.25	51.747	1.775				
04:00	6.75	51.950	1.845	19:45	22.50	51.736	1.770				
04:15	7.00	51.947	1.843	20:00	22.75	51.727	1.764				
04:30	7.25	51.944	1.841	20:15	23.00	51.717	1.758				
04:45	7.50	51.941	1.839	20:30	23.25	51.711	1.752				
05:00	7.75	51.938	1.835	20:45	23.50	51.703	1.749				
05:15	8.00	51.935	1.831	21:00	23.75	51.697	1.747				
05:30	8.25	51.931	1.828	21:15	24.00	51.692	1.738				
05:45	8.50	51.927	1.823	21:30	24.25	51.685	1.741				
06:00	8.75	51.923	1.820	21:45	24.50	51.680	1.741				
06:15	9.00	51.919	1.817	22:00	24.75	51.675	1.739				
06:30	9.25	51.914	1.814	22:15	25.00	51.672	1.739				
06:45	9.50	51.909	1.811	22:30	25.25	51.669	1.740				
07:00	9.75	51.902	1.806	22:45	25.50	51.667	1.746				
07:15	10.00	51.895	1.800	23:00	25.75	51.667	1.747				
07:30	10.25	51.885	1.787	23:15	26.00	51.666	1.750				
07:45	10.50	51.875	1.787	23:30	26.25	51.666	1.755				
08:00	10.75	51.868	1.778	23:45	26.50	51.669	1.764				
08:15	11.00	51.861	1.772	21-Jun-71							
08:30	11.25	51.855	1.764	00:00	26.75	51.673	1.771				
08:45	11.50	51.848	1.757	00:15	27.00	51.678	1.779				
09:00	11.75	51.841	1.753	00:29	27.23	51.683	1.788				
09:15	12.00	51.836	1.749	00:45	27.50	51.691	1.798				
09:30	12.25	51.832	1.746	01:00	27.75	51.698	1.805				
09:45	12.50	51.828	1.746	01:15	28.00	51.706	1.813				
10:00	12.75	51.826	1.749	01:30	28.25	51.715	1.816				
10:15	13.00	51.826	1.750	01:45	28.50	51.718	1.820				
10:30	13.25	51.827	1.749	02:00	28.75	51.720	1.826				
10:45	13.50	51.827	1.749	02:15	29.00	51.720	1.830				
11:00	13.75	51.826	1.749	02:30	29.25	51.721	1.830				
11:15	14.00	51.826	1.749	02:45	29.50	51.720	1.832				
11:30	14.25	51.826	1.751	03:00	29.75	51.720	1.835				
11:47	14.53	51.826	1.754	03:15	30.00	51.722	1.840				
12:00	14.75	51.825	1.756	03:16	30.02	51.722	1.840				
12:15	15.00	51.825	1.756	03:30	30.25	51.724	1.842				
12:30	15.25	51.825	1.757	03:45	30.50	51.724	1.844				

Annex 1.10 Sequential vertical positions of Fish 5

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
19-Jun-71				20-Jun-71				21-Jun-71			
20:15	0.00	8.9	28.3	10:47	14.53	42.3	42.3	02:16	30.02	37.7	37.7
20:30	0.25	6.7	28.2	11:00	14.75	40.2	40.2	02:30	30.25	35.3	35.3
20:45	0.50	4.0	27.8	11:15	15.00	36.7	36.7	02:45	30.50	33.2	36.9
21:00	0.75	4.0	29.6	11:30	15.25	40.2	40.2	03:00	30.75	37.6	37.6
21:15	1.00	6.5	26.7	11:45	15.50	42.2	42.2	03:15	31.00	35.3	35.3
21:30	1.25	7.8	34.6	12:00	15.75	41.3	41.3	03:30	31.25	35.5	35.5
21:45	1.50	4.0	35.2	12:15	16.00	38.3	38.3	03:45	31.50	36.9	36.9
22:00	1.75	6.7	46.2	12:30	16.25	41.2	41.2	04:00	31.75	37.0	37.0
22:15	2.00	7.5	35.3	12:45	16.50	46.0	46.0	04:15	32.00	36.4	36.4
22:30	2.25	4.0	47.0	13:00	16.75	47.1	47.1	04:30	32.25	35.3	35.3
22:45	2.50	4.0	42.7	13:15	17.00	45.4	45.3	04:45	32.50	34.5	34.5
23:00	2.75	8.9	30.7	13:30	17.25	47.6	47.6	05:00	32.75	36.5	36.5
23:15	3.00	6.4	27.4	13:45	17.50	44.4	44.4	05:15	33.00	32.2	32.2
23:30	3.25	27.2	30.4	14:00	17.75	40.2	40.2	05:30	33.25	33.1	33.1
23:42	3.45	9.4	33.6	14:15	18.00	32.2	32.2	05:45	33.50	35.3	35.3
23:45	3.50	15.0	33.2	14:30	18.25	28.4	28.4	06:00	33.75	38.1	38.1
20-Jun-71				14:45	18.50	27.5	27.5	06:15	34.00	49.2	49.1
00:00	3.75	13.4	35.3	15:00	18.75	27.0	27.0	06:30	34.25	50.0	50.0
00:05	3.83	4.0	35.7	15:15	19.00	27.5	27.5				
00:15	4.00	7.6	32.5	15:30	19.25	24.9	24.9				
00:30	4.25	4.0	31.2	15:45	19.50	23.5	23.5				
00:45	4.50	12.7	30.1	16:00	19.75	23.5	23.5				
00:55	4.67	15.9	33.5	16:15	20.00	23.2	23.2				
01:00	4.75	27.5	30.0	16:30	20.25	22.1	22.1				
01:12	4.95	23.9	30.4	16:45	20.50	24.4	24.4				
01:15	5.00	20.4	28.6	17:00	20.75	8.4	21.4				
01:30	5.25	28.4	31.8	17:15	21.00	9.2	14.5				
01:45	5.50	29.6	33.2	17:18	21.05	12.7	25.8				
02:00	5.75	31.0	36.4	17:30	21.25	7.8	23.2				
02:15	6.00	31.2	35.7	17:45	21.50	4.0	24.9				
02:30	6.25	24.9	35.3	18:00	21.75	4.0	32.0				
02:45	6.50	23.3	29.7	18:15	22.00	9.2	35.2				
03:00	6.75	29.8	39.3	18:30	22.25	6.8	37.3				
03:15	7.00	42.2	42.2	18:45	22.50	4.0	33.2				
03:30	7.25	43.9	47.9	19:00	22.75	12.0	36.0				
03:45	7.50	40.6	50.9	19:15	23.00	12.0	28.0				
04:00	7.75	43.4	43.4	19:30	23.25	18.7	28.4				
04:15	8.00	40.0	40.0	19:45	23.50	26.1	34.0				
04:30	8.25	35.4	35.4	20:00	23.75	23.5	29.0				
04:45	8.50	30.8	30.8	20:15	24.00	20.0	25.9				
05:00	8.75	25.8	25.8	20:30	24.25	16.6	29.2				
05:15	9.00	32.6	32.6	20:45	24.50	22.3	28.4				
05:30	9.25	31.6	31.6	21:00	24.75	13.4	32.2				
05:45	9.50	29.9	29.9	21:15	25.00	12.9	33.5				
06:00	9.75	4.0	24.9	21:30	25.25	14.7	29.0				
06:15	10.00	8.3	50.7	21:45	25.50	31.8	37.3				
06:30	10.25	4.0	43.6	22:00	25.75	9.6	34.5				
06:45	10.50	15.5	46.0	22:15	26.00	7.7	33.2				
07:00	10.75	10.8	44.2	22:30	26.25	7.0	33.5				
07:15	11.00	4.0	42.6	22:45	26.50	4.0	45.4				
07:30	11.25	7.1	35.3	23:00	26.75	6.6	30.0				
07:45	11.50	9.1	34.3	23:15	27.00	7.0	30.6				
07:53	11.63	15.0	33.2	23:29	27.23	10.3	32.2				
08:00	11.75	9.4	31.0	23:45	27.50	4.0	31.2				
08:15	12.00	11.7	34.6	21-Jun-71							
08:30	12.25	12.0	32.0	00:00	27.75	4.0	31.2				
08:36	12.35	16.6	33.2	00:15	28.00	4.0	34.6				
08:45	12.50	12.0	36.0	00:30	28.25	29.6	36.9				
09:00	12.75	15.0	33.2	00:45	28.50	34.5	34.5				
09:15	13.00	34.6	34.6	01:00	28.75	30.2	30.1				
09:30	13.25	33.9	33.9	01:15	29.00	31.5	31.5				
09:45	13.50	32.5	32.5	01:30	29.25	33.9	33.9				
10:00	13.75	36.7	36.7	01:45	29.50	36.1	36.1				
10:15	14.00	32.8	32.7	02:00	29.75	30.4	37.0				
10:30	14.25	38.8	38.8	02:15	30.00	37.7	37.7				

Annex 1.11 Sequential geographical positions of Fish 6

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
24-Jun-71				25-Jun-71				26-Jun-71			
17:00	0.00	52.003	1.817	11:45	18.75	52.132	2.012	07:15	38.25	52.348	2.145
17:15	0.25	52.011	1.824	12:00	19.00	52.133	2.011	07:30	38.50	52.348	2.144
18:30	1.50	52.045	1.859	12:15	19.25	52.133	2.013	07:45	38.75	52.348	2.146
18:45	1.75	52.048	1.865	12:30	19.50	52.132	2.012	08:00	39.00	52.348	2.145
19:00	2.00	52.049	1.870	12:45	19.75	52.132	2.011	08:15	39.25	52.348	2.146
19:15	2.25	52.048	1.874	13:00	20.00	52.132	2.011	08:30	39.50	52.348	2.146
19:30	2.50	52.048	1.878	13:15	20.25	52.132	2.011	08:45	39.75	52.348	2.144
19:45	2.75	52.045	1.882	13:30	20.50	52.132	2.012	09:00	40.00	52.347	2.145
20:00	3.00	52.040	1.884	13:45	20.75	52.132	2.012	09:15	40.25	52.347	2.144
20:15	3.25	52.036	1.884	14:00	21.00	52.132	2.012	09:30	40.50	52.348	2.146
20:30	3.50	52.029	1.884	14:15	21.25	52.136	2.017	09:45	40.75	52.348	2.145
20:45	3.75	52.023	1.882	14:30	21.50	52.141	2.026	10:00	41.00	52.347	2.145
20:58	3.97	52.016	1.878	14:45	21.75	52.147	2.032	10:20	41.33	52.348	2.146
21:15	4.25	52.007	1.875	15:00	22.00	52.156	2.038	10:30	41.50	52.347	2.146
21:28	4.47	52.002	1.874	15:15	22.25	52.164	2.046	10:45	41.75	52.347	2.145
22:03	5.05	51.996	1.873	15:34	22.57	52.174	2.054	11:00	42.00	52.347	2.146
22:15	5.25	51.995	1.876	15:45	22.75	52.184	2.059	11:15	42.25	52.348	2.146
22:30	5.50	51.995	1.876	16:00	23.00	52.194	2.068	11:30	42.50	52.347	2.145
22:45	5.75	51.995	1.874	16:15	23.25	52.205	2.074	11:45	42.75	52.347	2.142
23:00	6.00	51.995	1.873	16:30	23.50	52.216	2.082	12:00	43.00	52.347	2.145
23:15	6.25	51.994	1.873	16:45	23.75	52.227	2.092	12:15	43.25	52.347	2.148
23:30	6.50	51.995	1.873	17:00	24.00	52.237	2.096	12:30	43.50	52.346	2.147
23:45	6.75	51.994	1.873	17:15	24.25	52.248	2.105	12:45	43.75	52.348	2.146
25-Jun-71				17:30	24.50	52.257	2.108	13:00	44.00	52.348	2.147
00:00	7.00	51.994	1.875	17:45	24.75	52.266	2.111	13:30	44.50	52.347	2.146
00:15	7.25	51.994	1.875	18:00	25.00	52.274	2.118	14:00	45.00	52.348	2.146
00:30	7.50	51.995	1.877	18:15	25.25	52.283	2.123	14:15	45.25	52.348	2.146
00:45	7.75	51.996	1.879	18:30	25.50	52.291	2.124	14:43	45.72	52.348	2.145
01:00	8.00	51.997	1.883	19:00	26.00	52.303	2.134	15:00	46.00	52.348	2.145
01:15	8.25	52.000	1.885	19:15	26.25	52.308	2.137	15:15	46.25	52.348	2.146
01:30	8.50	52.004	1.888	19:30	26.50	52.309	2.139	15:30	46.50	52.348	2.146
01:45	8.75	52.010	1.895	19:45	26.75	52.309	2.138	15:45	46.75	52.348	2.146
02:00	9.00	52.016	1.902	20:00	27.00	52.312	2.142	16:00	47.00	52.348	2.146
02:15	9.25	52.026	1.907	20:15	27.25	52.308	2.140	16:15	47.25	52.348	2.146
02:30	9.50	52.034	1.916	20:30	27.50	52.309	2.139	16:30	47.50	52.348	2.145
02:45	9.75	52.044	1.923	20:45	27.75	52.309	2.139	16:45	47.75	52.348	2.146
03:00	10.00	52.054	1.933	22:15	29.25	52.309	2.143	17:00	48.00	52.348	2.145
03:15	10.25	52.064	1.944	22:30	29.50	52.309	2.142	17:15	48.25	52.348	2.147
03:30	10.50	52.075	1.952	22:45	29.75	52.309	2.142	17:30	48.50	52.348	2.145
03:45	10.75	52.085	1.964	22:58	29.97	52.309	2.141	17:45	48.75	52.348	2.145
04:00	11.00	52.095	1.974	23:15	30.25	52.308	2.137	18:00	49.00	52.354	2.148
04:15	11.25	52.106	1.988	23:30	30.50	52.308	2.138	18:15	49.25	52.364	2.151
04:30	11.50	52.113	1.991	23:45	30.75	52.309	2.135	18:30	49.50	52.372	2.150
04:45	11.75	52.121	2.000	26-Jun-71				18:45	49.75	52.380	2.153
05:00	12.00	52.127	2.006	02:00	33.00	52.309	2.142	19:00	50.00	52.386	2.154
07:15	14.25	52.132	2.011	02:15	33.25	52.309	2.140	19:15	50.25	52.395	2.155
07:30	14.50	52.132	2.012	02:30	33.50	52.311	2.140	19:30	50.50	52.400	2.160
07:45	14.75	52.132	2.012	02:45	33.75	52.314	2.140	19:45	50.75	52.406	2.159
08:00	15.00	52.132	2.012	03:00	34.00	52.318	2.139	20:00	51.00	52.410	2.162
08:15	15.25	52.132	2.012	03:15	34.25	52.324	2.141	20:15	51.25	52.413	2.163
08:30	15.50	52.132	2.012	03:30	34.50	52.324	2.141	20:30	51.50	52.413	2.166
08:45	15.75	52.132	2.011	03:45	34.75	52.324	2.142	20:45	51.75	52.412	2.168
09:00	16.00	52.132	2.011	04:00	35.00	52.324	2.140	21:00	52.00	52.410	2.167
09:15	16.25	52.132	2.012	04:15	35.25	52.324	2.141	21:15	52.25	52.408	2.169
09:30	16.50	52.132	2.011	04:30	35.50	52.324	2.140	21:30	52.50	52.409	2.173
09:45	16.75	52.133	2.011	04:45	35.75	52.324	2.140	21:45	52.75	52.409	2.169
10:00	17.00	52.132	2.012	05:00	36.00	52.325	2.140	22:00	53.00	52.408	2.169
10:15	17.25	52.132	2.012	05:15	36.25	52.335	2.149	22:15	53.25	52.408	2.170
10:30	17.50	52.132	2.011	05:30	36.50	52.340	2.146	22:30	53.50	52.408	2.168
10:45	17.75	52.132	2.011	05:45	36.75	52.347	2.145	22:45	53.75	52.408	2.166
11:00	18.00	52.132	2.011	06:03	37.05	52.348	2.146	23:00	54.00	52.408	2.166
11:15	18.25	52.132	2.011	06:42	37.70	52.348	2.145	23:15	54.25	52.409	2.171
11:30	18.50	52.132	2.011	07:00	38.00	52.348	2.145				

Annex 1.12 Sequential vertical positions of Fish 6

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
24-Jun-71				25-Jun-71				26-Jun-71			
16:56	0.00	16.5	28.9	11:30	18.57	37.5	37.4	04:45	35.82	47.9	47.9
17:00	0.07	13.8	35.5	11:45	18.82	33.3	33.2	05:00	36.07	37.0	46.7
17:15	0.32	4.0	31.7	12:00	19.07	33.6	33.6	05:10	36.23	29.0	53.6
18:30	1.57	4.0	26.0	12:15	19.32	36.0	36.0	05:15	36.32	24.4	51.5
18:45	1.82	7.2	26.5	12:30	19.57	29.3	29.3	05:20	36.40	27.5	47.9
19:00	2.07	4.0	28.4	12:45	19.82	35.5	35.5	05:30	36.57	41.5	53.9
19:15	2.32	7.4	27.8	13:00	20.07	33.1	33.1	05:40	36.73	31.2	44.7
19:30	2.57	4.0	26.3	13:15	20.32	33.9	33.9	05:45	36.82	50.8	50.7
19:45	2.82	4.0	28.8	13:30	20.57	33.9	33.9	06:03	37.12	49.8	49.8
20:00	3.07	4.0	27.1	13:45	20.82	36.9	36.9	06:42	37.77	47.7	47.7
20:15	3.32	4.0	25.8	14:00	21.07	37.6	37.6	07:00	38.07	47.4	47.4
20:30	3.57	8.4	25.7	14:05	21.15	24.9	35.3	07:15	38.32	47.6	47.5
20:45	3.82	6.5	21.7	14:15	21.32	16.2	33.1	07:30	38.57	48.3	48.3
20:58	4.03	8.2	24.9	14:30	21.57	17.9	37.3	07:45	38.82	48.0	48.0
21:06	4.17	20.1	23.3	14:45	21.82	8.0	36.0	08:00	39.07	45.6	45.6
21:10	4.23	16.0	24.0	15:00	22.07	11.7	38.4	08:15	39.32	47.3	47.3
21:15	4.32	24.7	24.7	15:15	22.32	14.2	37.9	08:30	39.57	44.5	44.5
21:28	4.53	21.0	27.8	15:34	22.63	4.0	39.3	08:45	39.82	45.2	45.2
22:03	5.12	24.5	24.5	15:45	22.82	4.0	37.4	09:00	40.07	46.0	46.0
22:15	5.32	23.5	23.5	16:00	23.07	6.0	41.4	09:15	40.32	45.4	45.4
22:30	5.57	28.4	28.4	16:07	23.18	8.4	38.5	09:30	40.57	44.1	44.1
22:45	5.82	26.7	26.7	16:15	23.32	9.2	37.7	09:45	40.82	47.1	47.1
23:00	6.07	24.9	24.9	16:30	23.57	4.0	43.1	10:00	41.07	45.1	45.1
23:15	6.32	25.8	25.8	16:45	23.82	4.0	41.5	10:20	41.40	47.9	47.9
23:30	6.57	30.2	30.1	17:00	24.07	6.4	36.7	10:30	41.57	48.0	48.0
23:45	6.82	26.7	26.7	17:15	24.32	4.0	38.3	10:45	41.82	47.9	47.9
25-Jun-71				17:30	24.57	13.1	44.7	11:00	42.07	45.0	45.0
00:00	7.07	26.0	26.0	17:45	24.82	4.0	30.1	11:15	42.32	47.9	47.9
00:15	7.32	27.0	27.0	18:00	25.07	4.0	36.9	11:30	42.57	47.9	47.9
00:30	7.57	24.9	24.9	18:15	25.32	4.0	31.0	11:45	42.82	45.7	45.7
00:45	7.82	18.7	22.3	18:30	25.57	4.0	35.9	12:00	43.07	47.6	47.5
01:00	8.07	20.7	29.1	18:45	25.82	4.0	34.5	12:15	43.32	45.4	45.4
01:15	8.32	11.0	21.4	19:00	26.07	9.2	45.8	12:30	43.57	47.8	47.8
01:30	8.57	9.9	24.7	19:15	26.32	8.5	49.1	12:45	43.82	47.0	47.0
01:45	8.82	10.6	30.4	19:19	26.38	32.2	46.2	13:00	44.07	43.9	43.9
02:00	9.07	8.0	28.0	19:20	26.40	28.4	43.0	13:30	44.57	48.8	48.8
02:15	9.32	7.9	31.4	19:21	26.42	24.9	45.8	14:00	45.07	45.7	45.7
02:30	9.57	4.0	32.5	19:24	26.47	34.5	47.4	14:15	45.32	46.3	46.3
02:45	9.82	4.0	30.2	19:27	26.52	42.2	45.6	14:43	45.78	47.6	47.5
03:00	10.07	8.5	26.7	19:28	26.53	45.6	45.6	15:00	46.07	48.0	48.0
03:15	10.32	4.0	28.0	19:30	26.57	44.1	47.7	15:15	46.32	45.4	45.3
03:30	10.57	8.6	31.7	19:45	26.82	45.7	45.7	15:30	46.57	46.6	46.6
03:45	10.82	4.0	25.0	20:00	27.07	41.5	41.5	15:45	46.82	44.8	44.8
04:00	11.07	7.8	27.0	20:15	27.32	41.5	41.5	16:00	47.07	47.9	47.9
04:15	11.32	4.0	23.6	20:30	27.57	43.4	43.4	16:15	47.32	50.1	50.1
04:30	11.57	7.0	30.6	20:45	27.82	44.4	44.4	16:30	47.57	46.6	46.6
04:45	11.82	7.1	32.2	22:15	29.32	44.1	44.1	16:45	47.82	50.9	50.9
05:00	12.07	7.3	33.7	22:30	29.57	42.0	42.0	17:00	48.07	47.4	47.4
07:15	14.32	32.6	32.6	22:45	29.82	43.5	43.5	17:15	48.32	47.7	47.7
07:30	14.57	31.8	31.8	22:58	30.03	45.6	45.6	17:30	48.57	48.3	48.3
07:45	14.82	33.9	33.9	23:15	30.32	44.0	44.0	17:45	48.82	41.4	47.5
08:00	15.07	32.2	32.2	23:30	30.57	42.6	42.6	18:00	49.07	21.2	42.0
08:15	15.32	29.8	29.7	23:45	30.82	39.8	39.8	18:15	49.32	16.2	30.7
08:30	15.57	33.2	33.2	26-Jun-71				18:30	49.57	6.8	37.3
08:45	15.82	34.6	34.6	02:00	33.07	47.9	47.9	18:45	49.82	7.9	39.2
09:00	16.07	32.6	32.6	02:15	33.32	50.0	50.0	19:00	50.07	13.4	41.4
09:15	16.32	34.5	34.5	02:30	33.57	40.0	43.9	19:15	50.32	16.6	39.1
09:30	16.57	33.2	33.2	02:45	33.82	38.9	48.0	19:30	50.57	11.9	40.3
09:45	16.82	34.3	34.3	03:00	34.07	35.3	49.0	19:45	50.82	15.8	35.3
10:00	17.07	32.8	32.7	03:15	34.32	44.4	44.4	20:00	51.07	12.4	37.4
10:15	17.32	36.9	36.9	03:30	34.57	51.7	51.7	20:15	51.32	40.5	40.5
10:30	17.57	37.5	37.4	03:45	34.82	45.1	45.1	20:30	51.57	40.3	40.3
10:45	17.82	37.5	37.5	04:00	35.07	46.9	46.9	20:45	51.82	36.9	40.5
11:00	18.07	34.3	34.3	04:15	35.32	45.7	45.7	21:00	52.07	37.7	40.3
11:15	18.32	33.6	33.6	04:30	35.57	45.0	45.0	21:15	52.32	39.8	39.8

Annex 1.12 Sequential vertical positions of Fish 6 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
26-Jun-71			
21:30	52.57	40.3	40.3
21:45	52.82	38.4	38.4
22:00	53.07	40.4	40.4
22:15	53.32	38.4	38.4
22:30	53.57	40.0	40.0
22:45	53.82	38.8	38.8
23:00	54.07	40.0	40.0
23:15	54.32	40.2	40.2

Annex 1.13 Sequential geographical positions of Fish 7

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
12-Dec-71				13-Dec-71			
10:15	0.00	52.276	1.770	02:35	16.33	52.500	1.866
10:30	0.25	52.280	1.774	02:45	16.50	52.501	1.866
10:45	0.50	52.286	1.779	03:00	16.75	52.502	1.869
11:00	0.75	52.293	1.784	03:15	17.00	52.501	1.868
11:15	1.00	52.299	1.790	03:30	17.25	52.500	1.867
11:30	1.25	52.304	1.796	03:45	17.50	52.500	1.863
11:45	1.50	52.311	1.800	04:00	17.75	52.501	1.873
12:00	1.75	52.316	1.803	04:15	18.00	52.499	1.863
12:15	2.00	52.322	1.808	04:30	18.25	52.499	1.863
12:30	2.25	52.326	1.815	04:45	18.50	52.499	1.867
12:45	2.50	52.333	1.820	05:00	18.75	52.501	1.870
13:00	2.75	52.335	1.823	05:15	19.00	52.499	1.863
13:15	3.00	52.338	1.828	05:30	19.25	52.499	1.862
13:30	3.25	52.341	1.830	05:45	19.50	52.499	1.867
13:45	3.50	52.342	1.833	06:00	19.75	52.499	1.862
14:00	3.75	52.345	1.831	06:15	20.00	52.499	1.862
14:15	4.00	52.345	1.831	06:30	20.25	52.498	1.862
14:30	4.25	52.345	1.827	06:45	20.50	52.497	1.860
14:45	4.50	52.344	1.824	07:00	20.75	52.496	1.856
15:00	4.75	52.344	1.825	07:15	21.00	52.497	1.859
15:15	5.00	52.344	1.822	07:30	21.25	52.497	1.855
15:30	5.25	52.344	1.820	07:45	21.50	52.498	1.857
15:45	5.50	52.344	1.826	08:00	21.75	52.498	1.853
16:00	5.75	52.344	1.827	08:15	22.00	52.502	1.857
16:15	6.00	52.344	1.826	08:30	22.25	52.507	1.863
16:30	6.25	52.345	1.823	08:45	22.50	52.513	1.863
16:45	6.50	52.345	1.822	09:00	22.75	52.520	1.860
17:00	6.75	52.345	1.821	09:15	23.00	52.527	1.858
17:15	7.00	52.345	1.822	09:30	23.25	52.537	1.864
17:30	7.25	52.345	1.823	09:45	23.50	52.544	1.866
17:45	7.50	52.345	1.822	10:00	23.75	52.553	1.860
18:00	7.75	52.346	1.822	10:15	24.00	52.562	1.867
18:15	8.00	52.347	1.823	10:30	24.25	52.574	1.875
18:30	8.25	52.348	1.822	10:45	24.50	52.585	1.876
18:45	8.50	52.349	1.819	11:00	24.75	52.595	1.869
19:00	8.75	52.350	1.819	11:15	25.00	52.615	1.887
19:15	9.00	52.352	1.820	11:30	25.25	52.622	1.884
19:30	9.25	52.354	1.821	11:45	25.50	52.632	1.880
19:45	9.50	52.356	1.820	12:00	25.75	52.639	1.882
20:00	9.75	52.358	1.824	12:15	26.00	52.663	1.908
20:15	10.00	52.361	1.830	12:30	26.25	52.655	1.873
20:30	10.25	52.364	1.830				
21:00	10.75	52.375	1.840				
21:15	11.00	52.382	1.836				
21:30	11.25	52.388	1.843				
21:45	11.50	52.395	1.854				
22:00	11.75	52.402	1.857				
22:15	12.00	52.409	1.860				
22:30	12.25	52.417	1.862				
22:45	12.50	52.425	1.863				
23:00	12.75	52.433	1.873				
23:15	13.00	52.442	1.878				
23:30	13.25	52.450	1.873				
23:45	13.50	52.457	1.874				
13-Dec-71							
00:00	13.75	52.465	1.877				
00:15	14.00	52.473	1.883				
00:30	14.25	52.480	1.878				
00:45	14.50	52.483	1.869				
01:00	14.75	52.489	1.873				
01:15	15.00	52.494	1.879				
01:30	15.25	52.495	1.874				
01:45	15.50	52.498	1.870				

Annex 1.14 Sequential vertical positions of Fish 7

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
12-Dec-71				12-Dec-71				12-Dec-71			
10:15	0.00	20.4	20.4	20:37	10.37	6.5	19.2	23:40	13.42	17.4	32.5
10:30	0.25	22.9	22.9	20:40	10.42	4.0	19.7	23:42	13.46	17.1	34.2
10:45	0.50	21.9	21.9	20:42	10.45	4.0	18.4	23:45	13.50	20.7	31.8
11:00	0.75	21.9	21.9	20:45	10.50	9.6	15.2	23:47	13.54	17.5	30.9
11:15	1.00	17.1	24.9	20:50	10.58	7.2	16.9	23:50	13.58	11.3	28.3
11:30	1.25	28.4	28.4	20:53	10.63	12.1	22.9	23:52	13.63	9.6	26.3
11:45	1.50	21.9	32.5	20:55	10.67	15.6	30.2	23:55	13.67	11.0	28.4
12:00	1.75	19.7	35.3	20:57	10.70	11.8	28.8	23:57	13.71	10.6	27.2
12:15	2.00	18.9	28.8	21:00	10.75	10.6	28.6	13-Dec-71			
12:30	2.25	13.7	23.3	21:02	10.78	13.4	28.8	00:00	13.75	9.6	26.3
12:45	2.50	24.1	32.7	21:05	10.83	15.0	27.3	00:02	13.79	12.1	25.6
12:50	2.58	24.1	32.7	21:07	10.87	12.7	27.9	00:05	13.83	17.6	27.8
12:55	2.67	28.3	33.1	21:10	10.92	8.7	27.4	00:07	13.88	15.8	27.5
13:00	2.75	30.4	30.4	21:12	10.95	11.1	29.8	00:10	13.92	11.7	30.8
13:05	2.83	30.6	33.5	21:15	11.00	11.6	29.2	00:12	13.96	7.5	28.4
13:10	2.92	24.7	33.5	21:17	11.03	14.1	24.2	00:15	14.00	7.5	28.4
13:15	3.00	17.9	26.5	21:20	11.08	14.2	27.8	00:17	14.04	7.7	33.2
13:20	3.08	16.5	26.9	21:22	11.12	11.2	29.0	00:20	14.08	7.7	33.2
13:25	3.17	20.5	25.1	21:25	11.17	11.5	26.5	00:22	14.13	7.3	30.4
13:30	3.25	25.3	25.3	21:27	11.20	7.8	27.0	00:25	14.17	10.1	28.4
13:35	3.33	24.9	30.0	21:30	11.25	12.0	28.0	00:27	14.21	13.9	33.7
13:45	3.50	21.2	28.7	21:32	11.28	12.4	29.1	00:30	14.25	10.6	30.4
13:50	3.58	22.8	31.0	21:35	11.33	15.8	31.4	00:35	14.33	10.3	29.1
13:55	3.67	32.0	32.0	21:37	11.37	11.9	31.4	00:37	14.38	9.8	27.0
14:00	3.75	33.9	33.9	21:40	11.42	11.9	27.5	00:40	14.42	10.1	28.4
14:05	3.83	34.2	34.2	21:42	11.45	11.3	29.6	00:42	14.46	14.2	31.1
14:10	3.92	37.0	37.0	21:45	11.50	9.6	26.3	00:45	14.50	4.0	27.1
14:15	4.00	29.8	35.5	21:47	11.53	6.7	25.6	00:47	14.54	9.1	24.2
14:20	4.08	29.2	29.2	21:50	11.58	6.9	27.0	00:50	14.58	16.0	20.0
14:25	4.17	33.2	33.2	21:52	11.62	9.9	27.7	00:52	14.63	18.8	24.7
14:30	4.25	34.4	34.4	21:55	11.67	10.5	29.7	00:55	14.67	22.3	22.3
14:35	4.33	30.1	30.0	21:57	11.70	11.2	29.0	00:57	14.71	16.6	21.7
14:40	4.42	32.5	32.5	22:00	11.75	12.2	28.6	01:00	14.75	15.2	26.3
14:45	4.50	32.1	32.1	22:02	11.79	4.0	27.0	01:02	14.79	12.9	27.7
14:50	4.58	31.0	31.0	22:05	11.83	7.0	27.7	01:05	14.83	10.5	29.7
14:55	4.67	30.1	30.0	22:07	11.88	9.6	26.3	01:07	14.88	4.0	29.6
15:00	4.75	28.3	28.3	22:10	11.92	6.9	27.0	01:10	14.92	7.5	24.9
15:05	4.83	31.1	31.1	22:12	11.96	7.0	27.7	01:12	14.96	4.0	22.3
15:10	4.92	22.8	22.8	22:15	12.00	7.4	31.1	01:15	15.00	4.0	21.7
15:15	5.00	25.3	25.3	22:17	12.04	7.8	26.5	01:17	15.04	8.9	21.1
15:30	5.25	31.8	31.8	22:20	12.08	7.2	26.5	01:20	15.08	8.9	23.5
15:45	5.50	26.7	26.7	22:22	12.13	6.7	28.2	01:22	15.13	17.1	22.3
16:00	5.75	29.6	29.6	22:25	12.17	6.7	28.2	01:25	15.17	24.7	24.7
16:15	6.00	32.0	32.0	22:27	12.21	7.0	30.6	01:30	15.25	26.5	26.5
16:30	6.25	27.5	27.5	22:30	12.25	7.4	34.5	01:32	15.29	17.1	22.3
16:45	6.50	30.0	30.0	22:35	12.33	4.0	32.5	01:35	15.33	14.9	21.4
17:00	6.75	32.8	32.7	22:40	12.42	5.9	32.5	01:37	15.38	23.1	23.1
17:15	7.00	24.9	24.9	22:45	12.50	6.5	29.2	01:40	15.42	24.8	26.5
17:30	7.25	30.1	30.0	22:50	12.58	6.6	32.6	01:42	15.46	25.1	27.4
17:45	7.50	32.2	32.2	22:55	12.67	6.5	34.1	01:45	15.50	22.8	29.1
18:00	7.75	34.6	34.6	23:00	12.75	6.5	34.1	01:47	15.54	23.2	30.8
18:15	8.00	25.8	25.8	23:05	12.83	11.3	35.5	01:50	15.58	16.6	32.2
18:30	8.25	25.4	25.4	23:07	12.88	11.6	34.1	02:05	15.83	12.7	32.1
18:45	8.50	21.7	21.7	23:10	12.92	8.9	33.1	02:35	16.33	35.3	35.3
19:00	8.75	23.5	23.5	23:12	12.96	6.5	31.7	02:41	16.43	35.3	35.3
19:15	9.00	21.7	21.7	23:15	13.00	8.9	35.5	02:45	16.50	32.2	32.2
19:30	9.25	17.5	17.5	23:17	13.04	11.1	34.4	03:00	16.75	31.1	31.1
19:45	9.50	24.7	24.7	23:20	13.08	10.8	33.2	03:15	17.00	28.4	28.4
20:00	9.75	22.3	25.3	23:22	13.13	15.3	31.0	03:30	17.25	29.0	29.0
20:05	9.83	22.8	25.9	23:25	13.17	13.1	31.0	03:45	17.50	36.9	36.9
20:15	10.00	22.1	24.3	23:27	13.21	11.3	33.1	04:00	17.75	30.4	30.4
20:20	10.08	20.7	26.9	23:30	13.25	8.2	33.0	04:15	18.00	31.7	31.7
20:25	10.17	14.5	22.8	23:32	13.29	10.5	36.4	04:30	18.25	33.6	33.6
20:30	10.25	11.1	20.5	23:35	13.33	11.6	36.6	04:45	18.50	23.5	23.5
20:35	10.33	6.4	18.6	23:37	13.38	12.4	31.8	05:00	18.75	27.5	27.5

Annex 1.14 Sequential vertical positions of Fish 7 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
13-Dec-71				13-Dec-71			
05:15	19.00	20.2	20.2	12:05	25.83	14.8	22.9
05:30	19.25	29.8	29.7	12:10	25.92	19.4	23.2
05:45	19.50	29.8	29.8	12:15	26.00	7.0	9.9
06:00	19.75	26.9	26.9	12:20	26.08	11.5	15.3
06:15	20.00	19.2	19.2				
06:30	20.25	36.1	36.1				
06:45	20.50	28.8	28.8				
07:00	20.75	31.2	31.2				
07:05	20.83	26.3	26.3				
07:10	20.92	30.4	30.4				
07:15	21.00	33.2	33.2				
07:20	21.08	29.4	29.4				
07:25	21.17	28.8	28.8				
07:30	21.25	33.2	33.2				
07:35	21.33	30.0	30.0				
07:40	21.42	33.1	33.1				
07:45	21.50	32.2	32.2				
07:50	21.58	37.0	37.0				
07:55	21.67	37.9	37.9				
08:00	21.75	31.8	37.3				
08:05	21.83	36.9	40.5				
08:10	21.92	33.7	37.0				
08:15	22.00	28.8	33.2				
08:20	22.08	21.4	30.0				
08:25	22.17	19.7	30.0				
08:30	22.25	22.1	33.2				
08:35	22.33	26.7	34.1				
08:40	22.42	22.9	33.6				
08:45	22.50	17.6	31.0				
08:50	22.58	14.5	26.9				
08:55	22.67	17.1	27.9				
09:00	22.75	21.8	24.7				
09:05	22.83	16.6	26.7				
09:10	22.92	11.5	33.9				
09:15	23.00	19.7	32.6				
09:20	23.08	18.6	33.1				
09:25	23.17	15.9	33.5				
09:30	23.25	11.9	35.2				
09:35	23.33	9.6	31.8				
09:40	23.42	7.8	32.5				
09:45	23.50	12.4	34.5				
09:50	23.58	16.6	31.7				
09:55	23.67	14.5	32.6				
10:00	23.75	14.5	32.6				
10:05	23.83	11.7	28.7				
10:10	23.92	14.5	27.5				
10:15	24.00	15.9	33.5				
10:20	24.08	16.6	31.7				
10:25	24.17	14.1	26.7				
10:30	24.25	13.4	29.1				
10:35	24.33	13.8	23.5				
10:40	24.42	11.3	25.9				
10:45	24.50	13.9	23.9				
10:50	24.58	13.7	26.5				
10:55	24.67	7.3	27.2				
11:00	24.75	14.1	29.2				
11:05	24.83	15.5	27.0				
11:11	24.93	14.2	31.1				
11:15	25.00	15.2	31.8				
11:22	25.12	14.9	32.1				
11:25	25.17	15.5	35.5				
11:30	25.25	17.1	37.7				
11:35	25.33	15.5	32.7				
11:40	25.42	12.9	27.7				
11:45	25.50	7.0	18.8				
11:50	25.58	7.8	23.2				
11:55	25.67	14.2	24.4				
12:00	25.75	16.0	32.0				

Annex 1.15 Sequential geographical positions of Fish 8

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
09-Apr-72			
12:15	0.00	51.986	1.856
12:30	0.25	51.988	1.854
12:45	0.50	51.990	1.854
13:00	0.75	51.994	1.856
13:15	1.00	51.996	1.859
13:30	1.25	51.998	1.863
13:45	1.50	52.000	1.866
14:00	1.75	52.000	1.869
14:15	2.00	52.000	1.871
14:30	2.25	51.999	1.873
14:45	2.50	51.997	1.873
15:00	2.75	51.995	1.871
15:15	3.00	51.991	1.873
15:30	3.25	51.987	1.870
15:45	3.50	51.984	1.867
16:00	3.75	51.979	1.866
16:15	4.00	51.978	1.866
16:30	4.25	51.978	1.867
17:00	4.75	51.978	1.866
17:15	5.00	51.978	1.866
17:30	5.25	51.978	1.866
17:45	5.50	51.978	1.866
18:00	5.75	51.978	1.866
18:15	6.00	51.977	1.867
18:30	6.25	51.978	1.866
18:45	6.50	51.978	1.866
19:00	6.75	51.978	1.869
19:15	7.00	51.978	1.867
19:30	7.25	51.978	1.866
19:45	7.50	51.978	1.867
20:00	7.75	51.980	1.868
20:15	8.00	51.983	1.869
20:30	8.25	51.987	1.874
20:45	8.52	51.991	1.881
21:00	8.75	51.995	1.883
21:15	9.00	52.002	1.887
21:30	9.25	52.008	1.895
21:45	9.50	52.015	1.904
22:00	9.75	52.021	1.912
22:15	10.00	52.026	1.913
22:30	10.25	52.030	1.922
23:00	10.75	52.040	1.933
23:15	11.00	52.047	1.946
23:30	11.25	52.055	1.950
23:45	11.50	52.061	1.960
10-Apr-72			
00:00	11.75	52.066	1.967
00:15	12.00	52.071	1.976
00:30	12.25	52.077	1.975
01:00	12.75	52.085	1.986
01:30	13.25	52.089	1.996
01:45	13.50	52.090	2.000
02:00	13.75	52.091	2.007
02:15	14.00	52.092	2.010
02:30	14.25	52.092	2.013
02:40	14.42	52.091	2.017
02:45	14.50	52.091	2.017
02:54	14.65	52.090	2.019
03:00	14.75	52.090	2.021
03:15	15.00	52.087	2.028
03:30	15.25	52.087	2.027
03:45	15.50	52.086	2.028
04:00	15.75	52.087	2.029

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
10-Apr-72			
04:15	16.00	52.087	2.031
04:30	16.25	52.087	2.027
04:45	16.50	52.086	2.026
05:00	16.75	52.087	2.025
05:15	17.00	52.087	2.027
05:30	17.25	52.086	2.028
05:45	17.50	52.086	2.027
06:00	17.75	52.087	2.026
06:15	18.00	52.087	2.029
06:30	18.25	52.087	2.028
06:45	18.50	52.087	2.027
07:00	18.75	52.087	2.028
07:15	19.00	52.087	2.028
07:30	19.25	52.088	2.025
08:00	19.75	52.087	2.028
08:15	20.00	52.087	2.027
08:30	20.25	52.087	2.027
08:45	20.50	52.088	2.028
09:00	20.75	52.091	2.029
09:15	21.00	52.095	2.032
09:30	21.25	52.100	2.032
09:45	21.50	52.104	2.041
10:00	21.75	52.108	2.048
10:15	22.00	52.114	2.053
10:30	22.25	52.119	2.057

Annex 1.16 Sequential vertical positions of Fish 8

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
09-Apr-72				09-Apr-72				09-Apr-72			
12:00	0.00	27.8	27.8	16:50	4.83	25.4	25.4	21:45	9.75	12.4	31.8
12:15	0.25	21.1	25.9	17:00	5.00	27.8	27.8	21:48	9.80	9.6	31.8
12:30	0.50	21.1	21.1	17:15	5.25	28.6	28.6	21:50	9.83	10.3	32.2
12:45	0.75	12.4	26.9	17:30	5.50	27.0	27.0	21:54	9.90	11.5	33.9
13:00	1.00	25.1	25.1	17:45	5.75	25.9	25.9	21:56	9.93	7.7	33.2
13:06	1.10	21.7	26.7	18:00	6.00	26.3	26.3	21:58	9.97	9.9	33.5
13:08	1.13	19.8	28.8	18:15	6.25	26.3	26.3	22:00	10.00	9.6	34.5
13:10	1.17	21.4	27.9	18:30	6.50	28.0	28.0	22:02	10.03	9.6	34.5
13:12	1.20	20.5	25.1	18:45	6.75	31.5	31.5	22:04	10.07	15.2	31.8
13:14	1.23	17.1	22.3	19:00	7.00	30.6	30.6	22:06	10.10	13.4	32.2
13:15	1.25	15.5	21.2	19:15	7.25	32.3	32.3	22:08	10.13	15.5	30.8
13:20	1.33	20.7	24.8	19:30	7.50	29.3	29.3	22:10	10.17	23.6	35.3
13:25	1.42	17.5	22.9	19:45	7.75	33.3	33.2	22:12	10.20	31.1	34.5
13:30	1.50	18.8	24.7	20:00	8.00	28.4	28.4	22:14	10.23	33.2	33.2
13:35	1.58	18.6	25.9	20:05	8.08	24.9	33.2	22:15	10.25	36.9	36.9
13:40	1.67	18.4	24.1	20:07	8.12	27.1	31.7	22:16	10.27	35.3	35.3
13:45	1.75	14.9	25.7	20:09	8.15	22.1	31.2	22:18	10.30	33.5	33.5
13:50	1.83	14.8	25.6	20:11	8.18	19.0	30.2	22:20	10.33	34.4	34.4
13:55	1.92	19.2	26.7	20:13	8.22	18.0	31.8	22:25	10.42	36.0	36.0
14:00	2.00	20.4	29.4	20:15	8.25	14.5	31.8	22:28	10.47	31.1	37.9
14:05	2.08	19.6	26.5	20:17	8.28	11.0	31.8	22:30	10.50	30.2	30.2
14:10	2.17	19.3	25.0	20:19	8.32	14.7	32.5	22:32	10.53	35.7	35.7
14:15	2.25	15.2	23.5	20:21	8.35	15.5	30.8	22:34	10.57	34.5	34.5
14:20	2.33	18.8	27.7	20:23	8.38	12.4	29.1	22:36	10.60	27.0	27.0
14:25	2.42	20.7	29.0	20:25	8.42	13.3	31.7	22:38	10.63	22.7	26.5
14:30	2.50	20.7	26.3	20:27	8.45	12.0	32.0	22:40	10.67	17.6	24.4
14:35	2.58	15.9	24.7	20:29	8.48	11.5	33.9	22:42	10.70	22.3	25.3
14:40	2.67	16.6	26.7	20:30	8.50	11.3	33.2	22:44	10.73	15.8	22.8
14:44	2.73	22.3	24.9	20:32	8.53	11.5	30.2	22:48	10.80	6.3	24.3
14:45	2.75	27.5	27.5	20:34	8.57	11.7	30.8	22:50	10.83	6.4	22.8
14:50	2.83	12.1	20.2	20:36	8.60	12.0	32.0	22:52	10.87	9.2	24.9
14:53	2.88	13.2	22.3	20:38	8.63	12.6	33.9	22:54	10.90	6.9	24.1
14:55	2.92	12.9	21.8	20:40	8.67	12.9	30.7	22:56	10.93	10.6	23.9
14:58	2.97	11.9	24.9	20:42	8.70	17.1	34.5	22:58	10.97	11.7	23.2
15:00	3.00	9.1	24.2	20:44	8.73	15.8	31.4	23:00	11.00	16.0	28.0
15:03	3.05	9.4	20.2	20:46	8.77	15.0	29.6	23:02	11.03	19.4	27.0
15:05	3.08	6.7	20.3	20:48	8.80	15.0	29.6	23:04	11.07	12.4	24.9
15:08	3.13	4.0	23.0	20:50	8.83	11.5	30.2	23:06	11.10	12.0	24.0
15:10	3.17	6.4	21.1	20:52	8.87	11.7	30.8	23:08	11.13	15.8	23.6
15:13	3.22	4.0	22.2	20:54	8.90	12.0	32.0	23:10	11.17	8.0	24.0
15:15	3.25	6.4	27.4	20:56	8.93	12.7	34.5	23:12	11.20	7.9	23.6
15:18	3.30	7.4	27.8	20:58	8.97	12.7	30.1	23:15	11.25	8.2	24.9
15:20	3.33	7.2	26.4	21:00	9.00	11.5	30.2	23:18	11.30	9.6	17.9
15:23	3.38	6.8	23.7	21:02	9.03	10.8	31.1	23:20	11.33	12.7	25.8
15:25	3.42	9.2	24.9	21:04	9.07	10.1	28.4	23:22	11.37	11.3	29.6
15:28	3.47	8.9	25.7	21:06	9.10	10.3	29.1	23:24	11.40	10.3	25.9
15:30	3.50	6.4	25.3	21:08	9.13	10.5	29.7	23:26	11.43	7.1	25.3
15:33	3.55	6.3	24.3	21:10	9.17	10.6	27.2	23:28	11.47	6.8	20.7
15:35	3.58	6.6	24.9	21:12	9.20	11.2	29.0	23:30	11.50	4.0	22.8
15:38	3.63	11.0	24.9	21:14	9.23	7.5	28.4	23:34	11.57	4.0	24.9
15:40	3.67	9.4	25.6	21:15	9.25	7.2	29.7	23:36	11.60	8.3	29.6
15:43	3.72	7.5	24.8	21:16	9.27	7.1	29.1	23:38	11.63	7.3	30.4
15:45	3.75	9.5	27.6	21:18	9.30	10.1	28.4	23:40	11.67	10.6	30.4
15:48	3.80	12.4	25.5	21:20	9.33	10.1	28.4	23:42	11.70	12.2	28.6
15:55	3.92	17.9	26.5	21:22	9.37	7.2	29.7	23:45	11.75	12.0	28.0
15:58	3.97	19.6	27.3	21:24	9.40	10.6	30.4	23:48	11.80	13.7	29.7
16:00	4.00	18.1	25.8	21:26	9.43	7.7	29.6	23:50	11.83	19.7	29.1
16:08	4.13	19.7	19.7	21:28	9.47	8.0	32.0	23:52	11.87	21.0	27.8
16:10	4.17	28.4	28.4	21:30	9.50	11.3	29.6	23:54	11.90	23.6	27.5
16:13	4.22	26.0	26.0	21:32	9.53	11.2	32.5	23:56	11.93	14.5	28.4
16:15	4.25	24.9	24.9	21:34	9.57	11.3	29.6	23:58	11.97	16.2	25.9
16:18	4.30	31.4	31.4	21:36	9.60	11.7	30.8	10-Apr-72			
16:20	4.33	24.9	24.9	21:38	9.63	12.6	29.6	00:00	12.00	17.1	24.9
16:35	4.58	27.2	27.2	21:40	9.67	12.4	33.2	00:02	12.03	16.2	25.3
16:40	4.67	28.6	28.6	21:42	9.70	10.6	30.4	00:04	12.07	11.5	22.7

Annex 1.16 Sequential vertical positions of Fish 8 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
10-Apr-72				10-Apr-72				10-Apr-72			
00:06	12.10	20.7	29.1	02:30	14.50	11.2	32.5	09:40	21.67	29.6	29.6
00:08	12.13	20.0	28.0	02:32	14.53	8.0	32.0	09:41	21.68	32.2	32.2
00:10	12.17	25.9	25.9	02:34	14.57	16.0	36.0	09:45	21.75	24.4	34.5
00:12	12.20	22.3	25.3	02:36	14.60	15.0	33.2	09:50	21.83	15.0	29.6
00:15	12.25	23.3	26.5	02:38	14.63	14.7	32.5	09:55	21.92	21.8	33.5
00:18	12.30	21.8	24.7	02:40	14.67	12.0	31.8	10:00	22.00	19.7	39.2
00:20	12.33	24.4	27.8	02:42	14.70	15.5	34.6	10:05	22.08	15.9	36.4
00:22	12.37	24.4	27.8	02:45	14.75	18.0	31.8	10:10	22.17	17.3	37.0
00:24	12.40	22.3	25.3	02:48	14.80	22.3	33.2	10:15	22.25	27.0	34.6
00:26	12.43	24.4	24.4	02:50	14.83	24.9	31.8	10:20	22.33	27.0	38.4
00:28	12.47	21.4	28.4	02:52	14.87	27.0	30.8	10:25	22.42	26.3	37.3
00:30	12.50	21.8	24.7	02:54	14.90	31.4	31.4	10:30	22.50	29.1	35.3
00:32	12.53	18.8	24.7	02:56	14.93	33.9	33.9				
00:34	12.57	18.3	25.4	02:58	14.97	33.2	33.2				
00:36	12.60	21.9	29.0	03:00	15.00	28.0	36.0				
00:38	12.63	17.3	27.2	03:02	15.03	29.0	32.5				
00:40	12.67	10.6	27.2	03:04	15.07	24.4	31.1				
00:42	12.70	11.0	28.4	03:06	15.10	25.7	29.3				
00:45	12.75	10.8	27.8	03:08	15.13	28.4	31.8				
00:48	12.80	13.5	26.2	03:10	15.17	26.5	26.5				
00:50	12.83	14.5	24.9	03:12	15.20	31.4	31.4				
00:52	12.87	15.0	26.0	03:15	15.25	31.8	35.3				
00:54	12.90	11.3	26.0	03:18	15.30	33.2	33.2				
00:56	12.93	14.2	24.4	03:30	15.50	29.0	29.0				
00:58	12.97	14.7	25.4	03:45	15.75	26.3	26.3				
01:00	13.00	23.6	27.5	04:00	16.00	28.8	28.8				
01:02	13.03	15.5	27.0	04:15	16.25	33.7	33.7				
01:04	13.07	14.5	24.9	04:30	16.50	25.1	25.1				
01:06	13.10	13.6	23.2	04:45	16.75	24.9	24.9				
01:08	13.13	10.3	25.9	05:00	17.00	33.2	33.2				
01:10	13.17	14.7	29.0	05:15	17.25	30.7	30.7				
01:12	13.20	11.7	30.8	05:30	17.50	31.2	31.2				
01:14	13.23	11.0	21.4	05:45	17.75	34.6	34.6				
01:15	13.25	10.3	25.9	06:00	18.00	33.9	33.9				
01:18	13.30	7.1	25.9	06:15	18.25	23.9	23.9				
01:20	13.33	7.5	24.9	06:30	18.50	31.8	31.8				
01:22	13.37	11.0	24.9	06:45	18.75	32.2	32.2				
01:24	13.40	11.0	28.4	07:00	19.00	27.7	27.7				
01:26	13.43	17.3	30.4	07:15	19.25	29.0	29.0				
01:28	13.47	20.7	23.5	07:30	19.50	34.6	34.6				
01:30	13.50	21.8	24.7	07:45	19.75	35.3	35.3				
01:32	13.53	25.4	25.4	07:50	19.83	30.6	30.6				
01:34	13.57	23.6	23.6	07:55	19.92	36.1	36.1				
01:36	13.60	27.0	27.0	08:00	20.00	33.2	33.2				
01:38	13.63	22.8	25.9	08:05	20.08	33.7	33.7				
01:40	13.67	22.4	25.4	08:10	20.17	35.3	35.3				
01:42	13.70	17.6	27.8	08:15	20.25	37.4	37.4				
01:45	13.75	18.0	28.4	08:20	20.33	33.5	33.5				
01:48	13.80	11.7	27.0	08:25	20.42	38.4	38.3				
01:50	13.83	15.8	31.4	08:30	20.50	29.1	29.1				
01:52	13.87	14.5	31.8	08:35	20.58	34.5	34.5				
01:54	13.90	15.3	33.9	08:40	20.67	27.7	33.5				
01:56	13.93	12.4	33.2	08:43	20.72	28.4	31.4				
01:58	13.97	12.1	32.3	08:45	20.75	26.0	29.6				
02:00	14.00	15.4	34.3	08:48	20.80	30.4	33.7				
02:02	14.03	14.5	31.8	08:50	20.83	30.6	33.5				
02:04	14.07	11.3	33.2	08:52	20.87	28.4	34.4				
02:06	14.10	11.3	29.6	08:54	20.90	28.4	34.4				
02:08	14.13	14.1	30.7	08:56	20.93	26.3	31.8				
02:10	14.17	14.5	31.8	08:58	20.97	31.0	36.4				
02:12	14.20	18.0	28.4	09:00	21.00	23.9	33.7				
02:15	14.25	20.1	29.7	09:05	21.08	24.9	35.2				
02:18	14.30	11.5	30.2	09:11	21.18	24.9	32.6				
02:20	14.33	11.7	30.8	09:15	21.25	28.4	35.3				
02:22	14.37	11.3	33.2	09:20	21.33	27.2	33.7				
02:24	14.40	11.3	33.2	09:25	21.42	24.7	30.6				
02:26	14.43	11.3	33.2	09:30	21.50	29.6	33.2				
02:28	14.47	7.6	32.5	09:35	21.58	19.0	33.9				

Annex 1.17 Sequential geographical positions of Fish 9

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
11-Apr-72			
21:15	0.00	51.991	1.818
21:30	0.25	51.991	1.818
21:45	0.50	51.991	1.820
22:00	0.75	51.991	1.819
22:15	1.00	51.989	1.820
22:30	1.25	51.988	1.820
22:45	1.50	51.988	1.821
23:00	1.75	51.988	1.821
23:15	2.00	51.987	1.820
23:30	2.25	51.987	1.821
23:45	2.50	51.988	1.822
12-Apr-72			
00:00	2.75	51.988	1.822
00:15	3.00	51.988	1.821
00:30	3.25	51.988	1.821
00:45	3.50	51.987	1.823
01:00	3.75	51.988	1.822
01:15	4.00	51.987	1.823
01:30	4.25	51.988	1.822
01:45	4.50	51.987	1.826
02:00	4.75	51.987	1.821
02:15	5.00	51.988	1.826
02:30	5.25	51.988	1.824
02:45	5.50	51.987	1.825
03:00	5.75	51.987	1.824
03:15	6.00	51.987	1.824
03:30	6.25	51.985	1.825
03:45	6.50	51.985	1.826
04:00	6.75	51.984	1.824
04:15	7.00	51.982	1.827
04:30	7.25	51.980	1.826
04:45	7.50	51.978	1.827
05:00	7.75	51.978	1.829
05:15	8.00	51.979	1.830
05:30	8.25	51.979	1.831
05:45	8.50	51.980	1.832
06:00	8.75	51.980	1.833
06:15	9.00	51.980	1.833
06:30	9.25	51.980	1.833
06:45	9.50	51.980	1.834
07:00	9.75	51.980	1.834
07:15	10.00	51.980	1.834
07:45	10.50	51.980	1.833
08:00	10.75	51.980	1.834
08:15	11.00	51.980	1.834
08:30	11.25	51.980	1.834
08:45	11.50	51.980	1.834
09:00	11.75	51.980	1.834
09:15	12.00	51.980	1.835
09:30	12.25	51.981	1.835
09:45	12.50	51.981	1.836
10:00	12.75	51.981	1.838
10:15	13.00	51.982	1.841
10:30	13.25	51.981	1.842
10:45	13.50	51.981	1.845
11:00	13.75	51.979	1.843
11:15	14.00	51.979	1.843
11:30	14.25	51.978	1.842
11:45	14.50	51.978	1.842
12:00	14.75	51.978	1.842
12:15	15.00	51.978	1.842
12:30	15.25	51.978	1.841
12:45	15.50	51.978	1.841

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
12-Apr-72			
13:00	15.75	51.978	1.842
13:15	16.00	51.978	1.841
13:30	16.25	51.978	1.842
13:45	16.50	51.978	1.841
14:00	16.75	51.977	1.841
14:15	17.00	51.977	1.841
14:30	17.25	51.977	1.842
14:45	17.50	51.977	1.842
15:00	17.75	51.977	1.841
15:15	18.00	51.977	1.841
15:30	18.25	51.976	1.841
15:45	18.50	51.976	1.842
16:00	18.75	51.975	1.843
16:15	19.00	51.974	1.843
16:30	19.25	51.972	1.845
16:45	19.50	51.972	1.847
17:00	19.75	51.972	1.850
17:15	20.00	51.972	1.852
17:30	20.25	51.971	1.854
17:45	20.50	51.971	1.854
18:00	20.75	51.971	1.855
18:15	21.00	51.971	1.856
18:30	21.25	51.972	1.856
18:45	21.50	51.971	1.858
19:00	21.75	51.971	1.858
19:15	22.00	51.971	1.858
19:30	22.25	51.970	1.857
19:45	22.50	51.970	1.857
20:00	22.75	51.969	1.858
20:15	23.00	51.965	1.857
20:30	23.25	51.963	1.860
20:45	23.50	51.961	1.860
21:00	23.75	51.957	1.862
21:15	24.00	51.955	1.862
21:30	24.25	51.955	1.862
21:45	24.50	51.954	1.865
22:00	24.75	51.953	1.868
22:15	25.00	51.953	1.869
22:30	25.25	51.954	1.871
22:45	25.50	51.955	1.874
23:00	25.75	51.955	1.878
23:15	26.00	51.955	1.881
23:30	26.25	51.954	1.885
23:45	26.50	51.955	1.886
13-Apr-72			
00:00	26.75	51.955	1.890
00:15	27.00	51.957	1.893
00:30	27.25	51.957	1.896

Annex 1.18 Sequential vertical positions of Fish 9

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
11-Apr-72				12-Apr-72				12-Apr-72			
21:15	0.00	29.0	29.0	02:40	5.42	19.4	19.3	08:05	10.83	34.9	34.9
21:20	0.08	29.4	29.3	02:45	5.50	26.5	26.5	08:10	10.92	36.1	36.1
21:25	0.17	26.6	26.5	02:50	5.58	24.5	24.5	08:15	11.00	33.3	33.2
21:30	0.25	29.6	29.6	02:55	5.67	22.8	22.8	08:20	11.08	34.8	34.8
21:35	0.33	27.0	27.0	03:00	5.75	25.6	25.6	08:25	11.17	36.1	36.1
21:40	0.42	26.0	26.0	03:05	5.83	25.4	25.4	08:30	11.25	36.9	36.9
21:45	0.50	26.6	26.5	03:10	5.92	21.1	21.1	08:35	11.33	33.7	33.7
21:50	0.58	28.4	28.4	03:15	6.00	24.7	24.7	08:40	11.42	32.2	32.2
21:55	0.67	26.3	26.3	03:20	6.08	24.7	24.7	08:45	11.50	34.6	34.6
22:00	0.75	22.9	22.9	03:25	6.17	24.5	24.5	08:50	11.58	35.3	35.3
22:05	0.83	22.8	22.8	03:30	6.25	25.6	25.6	08:55	11.67	37.4	37.4
22:10	0.92	26.3	26.3	03:35	6.33	21.3	21.2	09:00	11.75	32.7	32.7
22:15	1.00	25.9	25.9	03:40	6.42	16.0	16.0	09:05	11.83	36.4	36.4
22:20	1.08	29.1	29.1	03:45	6.50	27.0	27.0	09:10	11.92	42.8	42.8
22:25	1.17	24.7	24.7	03:50	6.58	25.9	25.9	09:15	12.00	35.5	35.5
22:30	1.25	26.6	26.5	03:55	6.67	27.0	27.0	09:20	12.08	35.3	35.3
22:35	1.33	27.1	27.1	04:00	6.75	27.7	27.7	09:25	12.17	36.1	36.1
22:40	1.42	24.6	24.6	04:05	6.83	23.9	23.9	09:30	12.25	36.1	36.1
22:45	1.50	24.4	24.4	04:10	6.92	23.3	23.3	09:35	12.33	38.7	38.7
22:50	1.58	21.9	21.9	04:15	7.00	25.9	25.9	09:40	12.42	37.9	37.9
22:55	1.67	19.2	19.2	04:20	7.08	24.7	24.7	09:45	12.50	35.2	35.2
23:00	1.75	28.0	28.0	04:25	7.17	25.6	25.6	09:50	12.58	38.4	38.4
23:05	1.83	23.5	23.5	04:30	7.25	19.7	19.7	09:55	12.67	37.9	37.9
23:10	1.92	28.8	28.8	04:35	7.33	31.7	31.7	10:00	12.75	31.4	31.4
23:15	2.00	28.4	28.4	04:40	7.42	31.2	31.2	10:05	12.83	32.6	32.6
23:20	2.08	29.0	29.0	04:45	7.50	28.6	28.6	10:10	12.92	29.0	29.0
23:25	2.17	26.7	26.7	04:50	7.58	30.2	30.2	10:15	13.00	31.8	31.8
23:30	2.25	16.3	16.3	04:55	7.67	33.3	33.3	10:20	13.08	25.3	25.3
23:35	2.33	31.7	31.7	05:00	7.75	28.6	28.6	10:25	13.17	27.2	27.2
23:40	2.42	27.5	27.5	05:05	7.83	30.1	30.1	10:30	13.25	36.1	36.1
23:45	2.50	27.8	27.8	05:10	7.92	30.4	30.4	10:35	13.33	26.6	26.6
23:50	2.58	32.2	32.2	05:15	8.00	30.4	30.4	10:40	13.42	24.2	24.2
23:55	2.67	29.0	29.0	05:20	8.08	33.8	33.8	10:45	13.50	21.4	21.4
12-Apr-72				05:25	8.17	31.2	31.2	10:50	13.58	30.1	30.0
00:00	2.75	28.4	28.4	05:30	8.25	27.2	27.2	10:55	13.67	32.9	32.9
00:05	2.83	27.0	27.0	05:35	8.33	30.4	30.4	11:00	13.75	32.0	32.0
00:10	2.92	27.5	27.5	05:40	8.42	33.3	33.2	11:05	13.83	30.4	30.4
00:15	3.00	27.0	27.0	05:45	8.50	32.0	32.0	11:10	13.92	31.4	31.4
00:20	3.08	26.5	26.5	05:50	8.58	36.0	36.0	11:15	14.00	32.2	32.2
00:25	3.17	29.6	29.6	05:55	8.67	34.6	34.6	11:20	14.08	34.6	34.6
00:30	3.25	16.8	16.8	06:00	8.75	33.5	33.5	11:25	14.17	32.0	32.0
00:35	3.33	27.0	27.0	06:05	8.83	31.8	31.8	11:30	14.25	30.2	30.2
00:40	3.42	29.6	29.6	06:10	8.92	35.3	35.3	11:35	14.33	25.4	25.4
00:45	3.50	29.6	29.6	06:15	9.00	32.9	32.9	11:40	14.42	30.2	30.2
00:50	3.58	26.0	26.0	06:20	9.08	32.9	32.9	11:45	14.50	32.0	32.0
00:55	3.67	28.0	28.0	06:25	9.17	31.4	31.4	11:50	14.58	33.3	33.2
01:00	3.75	26.0	26.0	06:30	9.25	36.7	36.7	11:55	14.67	30.1	30.1
01:05	3.83	29.0	29.0	06:35	9.33	34.6	34.6	12:00	14.75	32.0	32.0
01:10	3.92	27.1	27.1	06:40	9.42	33.2	33.2	12:05	14.83	32.0	32.0
01:15	4.00	27.8	27.8	06:45	9.50	31.1	31.1	12:10	14.92	32.0	32.0
01:20	4.08	26.3	26.3	06:50	9.58	32.6	32.6	12:15	15.00	30.2	30.2
01:25	4.17	25.4	25.4	06:55	9.67	35.3	35.3	12:20	15.08	29.6	29.6
01:30	4.25	29.1	29.1	07:00	9.75	31.1	31.1	12:25	15.17	29.1	29.1
01:35	4.33	26.6	26.6	07:05	9.83	34.6	34.6	12:30	15.25	32.0	32.0
01:40	4.42	27.7	27.7	07:10	9.92	34.6	34.6	12:35	15.33	34.5	34.5
01:45	4.50	27.4	27.4	07:15	10.00	32.9	32.9	12:40	15.42	32.0	32.0
01:50	4.58	27.7	27.7	07:20	10.08	33.5	33.5	12:45	15.50	30.2	30.2
01:55	4.67	28.4	28.4	07:25	10.17	33.7	33.7	12:50	15.58	30.2	30.2
02:00	4.75	21.4	21.4	07:30	10.25	34.5	34.5	12:55	15.67	31.4	31.4
02:05	4.83	24.9	24.9	07:35	10.33	33.2	33.2	13:00	15.75	31.7	31.7
02:10	4.92	20.6	20.6	07:40	10.42	33.9	33.9	13:05	15.83	32.0	32.0
02:15	5.00	12.1	12.1	07:45	10.50	36.0	36.0	13:10	15.92	29.8	29.7
02:20	5.08	19.7	19.7	07:50	10.58	38.1	38.1	13:15	16.00	33.9	33.9
02:25	5.17	15.0	15.0	07:55	10.67	36.3	36.3	13:20	16.08	31.4	31.4
02:30	5.25	15.0	15.0	08:00	10.75	32.1	32.1	13:25	16.17	32.6	32.6

Annex 1.18 Sequential vertical positions of Fish 9 continued:

Note: Time is measured in decimal hours. Figures in *italics* denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
12-Apr-72				12-Apr-72			
13:30	16.25	28.4	28.4	19:10	21.92	31.8	31.8
13:35	16.33	28.6	28.6	19:15	22.00	33.3	33.2
13:40	16.42	30.2	30.2	19:20	22.08	31.4	31.4
13:45	16.50	29.8	29.7	19:25	22.17	30.9	30.9
13:50	16.58	29.6	29.6	19:30	22.25	31.1	31.1
13:55	16.67	32.0	32.0	19:35	22.33	35.1	35.1
14:00	16.75	30.2	30.2	19:40	22.42	32.6	32.6
14:05	16.83	30.8	30.8	19:45	22.50	31.7	31.7
14:10	16.92	30.8	30.8	19:50	22.58	31.4	31.4
14:15	17.00	30.2	30.2	19:55	22.67	27.2	27.2
14:20	17.08	30.8	30.8	20:00	22.75	25.3	25.3
14:25	17.17	31.4	31.4	20:05	22.83	30.6	30.6
14:30	17.25	30.8	30.8	20:10	22.92	27.5	27.5
14:35	17.33	29.0	29.0	20:15	23.00	27.5	27.5
14:40	17.42	29.0	29.0	20:20	23.08	22.8	22.8
14:45	17.50	28.4	28.4	20:25	23.17	32.2	32.2
14:50	17.58	29.6	29.6	20:30	23.25	38.4	38.4
14:55	17.67	31.1	31.1	20:35	23.33	37.6	37.6
15:00	17.75	31.8	31.8	20:40	23.42	38.4	38.3
15:05	17.83	29.9	29.9	20:45	23.50	37.3	37.3
15:10	17.92	28.9	28.9	20:50	23.58	42.2	42.2
15:15	18.00	30.2	30.2	20:55	23.67	44.8	44.8
15:20	18.08	28.4	28.4	21:00	23.75	43.4	43.4
15:25	18.17	31.8	31.8	21:05	23.83	41.3	41.3
15:30	18.25	31.1	31.1	21:10	23.92	47.7	47.7
15:35	18.33	27.2	27.2	21:15	24.00	48.1	48.1
15:40	18.42	31.1	31.1	21:20	24.08	57.2	57.2
15:45	18.50	28.3	28.2	21:25	24.17	58.4	58.4
15:50	18.58	31.8	31.8	21:30	24.25	55.8	55.8
15:55	18.67	34.3	34.3	21:35	24.33	57.8	57.7
16:00	18.75	33.2	33.2	21:40	24.42	60.5	60.5
16:05	18.83	24.7	24.7	21:45	24.50	59.6	59.6
16:10	18.92	34.6	34.6	21:50	24.58	53.6	53.6
16:15	19.00	32.5	32.5	21:55	24.67	58.1	58.1
16:20	19.08	34.0	34.0	22:00	24.75	53.6	53.6
16:25	19.17	31.7	31.7	22:05	24.83	54.6	54.6
16:30	19.25	32.7	32.7	22:10	24.92	48.1	48.1
16:35	19.33	32.5	32.5	22:15	25.00	40.3	40.3
16:40	19.42	30.7	30.7	22:20	25.08	37.6	37.6
16:45	19.50	30.1	30.0	22:25	25.17	32.6	32.6
16:50	19.58	30.8	30.8	22:30	25.25	27.7	27.7
16:55	19.67	32.2	32.2	22:35	25.33	33.1	33.1
17:00	19.75	31.4	31.4	22:40	25.42	30.7	30.7
17:05	19.83	33.3	33.2	22:45	25.50	30.1	30.0
17:10	19.92	31.8	31.8	22:50	25.58	30.0	30.0
17:15	20.00	27.7	27.7	22:55	25.67	26.6	26.5
17:20	20.08	32.0	32.0	23:00	25.75	32.6	32.6
17:25	20.17	31.4	31.4	23:05	25.83	32.7	32.7
17:30	20.25	26.6	26.5	23:10	25.92	33.1	33.1
17:35	20.33	33.9	33.9	23:15	26.00	34.2	34.1
17:40	20.42	30.6	30.6	23:20	26.08	32.6	32.6
17:45	20.50	33.3	33.2	23:25	26.17	32.6	32.6
17:50	20.58	29.8	29.7	23:30	26.25	31.0	31.0
17:55	20.67	31.1	31.1	23:35	26.33	33.5	33.5
18:00	20.75	32.6	32.6	23:40	26.42	31.8	31.8
18:05	20.83	33.2	33.2	23:45	26.50	32.6	32.6
18:10	20.92	31.1	31.1	23:50	26.58	31.7	31.7
18:15	21.00	34.6	34.6	23:55	26.67	30.1	30.0
18:20	21.08	31.1	31.1	13-Apr-72			
18:25	21.17	32.2	32.2	00:00	26.75	30.9	30.9
18:30	21.25	30.8	30.8	00:05	26.83	30.4	30.4
18:35	21.33	30.8	30.8	00:10	26.92	34.2	34.1
18:40	21.42	30.9	30.9	00:15	27.00	33.0	33.0
18:45	21.50	33.3	33.2	00:20	27.08	33.1	33.1
18:50	21.58	32.0	32.0	00:25	27.17	32.1	32.1
18:55	21.67	36.9	36.9	00:30	27.25	33.6	33.6
19:00	21.75	32.9	32.9				
19:05	21.83	32.9	32.9				

Annex 1.19 Sequential geographical positions of Fish 10

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
13-Apr-72			
21:45	0.00	51.969	1.802
22:00	0.25	51.965	1.800
22:15	0.50	51.963	1.799
22:30	0.75	51.960	1.798
22:45	1.00	51.959	1.795
23:00	1.25	51.958	1.794
23:15	1.50	51.958	1.793
23:30	1.75	51.960	1.793
14-Apr-72			
00:00	2.25	51.967	1.793
00:15	2.50	51.972	1.791
00:45	3.00	51.985	1.797
01:00	3.25	51.992	1.799
01:15	3.50	52.000	1.808
01:30	3.75	52.009	1.815
01:45	4.00	52.020	1.824
02:00	4.25	52.028	1.832
02:15	4.50	52.040	1.840
02:30	4.75	52.050	1.850
02:45	5.00	52.062	1.860
03:00	5.25	52.072	1.870
03:15	5.50	52.083	1.877
03:30	5.75	52.090	1.882
03:45	6.00	52.096	1.885
04:00	6.25	52.100	1.888
04:15	6.50	52.104	1.892
04:45	7.00	52.110	1.896
05:00	7.25	52.113	1.897
05:15	7.50	52.115	1.898
05:28	7.72	52.117	1.898
05:45	8.00	52.116	1.897
06:00	8.25	52.114	1.895
06:15	8.50	52.110	1.893
06:30	8.75	52.105	1.892
06:45	9.00	52.098	1.891
07:00	9.25	52.094	1.886
07:30	9.75	52.081	1.881
07:45	10.00	52.076	1.875
08:00	10.25	52.071	1.870
08:15	10.50	52.065	1.866
08:30	10.75	52.057	1.864
08:45	11.00	52.051	1.856
09:00	11.25	52.045	1.849
09:15	11.50	52.039	1.844
09:30	11.75	52.031	1.839
09:45	12.00	52.021	1.828
10:00	12.25	52.011	1.824
10:15	12.50	52.002	1.817
10:30	12.75	51.994	1.812
10:45	13.00	51.986	1.810
11:00	13.25	51.981	1.806
11:15	13.50	51.977	1.805
11:30	13.75	51.974	1.804
11:45	14.00	51.972	1.803
12:00	14.25	51.972	1.804
12:15	14.50	51.973	1.806
12:30	14.75	51.976	1.808
12:45	15.00	51.979	1.812
13:00	15.25	51.983	1.816
13:15	15.50	51.989	1.821
13:30	15.75	51.996	1.828
13:45	16.00	52.006	1.831
14:00	16.25	52.014	1.840

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
14-Apr-72			
14:15	16.50	52.026	1.846
14:30	16.75	52.036	1.858
14:45	17.00	52.048	1.862
15:00	17.25	52.057	1.874
15:15	17.50	52.068	1.880
15:30	17.75	52.076	1.887
15:45	18.00	52.085	1.893
16:00	18.25	52.097	1.902
16:15	18.50	52.105	1.911
16:30	18.75	52.113	1.915
16:45	19.00	52.119	1.918
17:00	19.25	52.125	1.924
17:15	19.50	52.129	1.930
17:30	19.75	52.133	1.933
17:45	20.00	52.136	1.933
18:00	20.25	52.137	1.934
18:20	20.58	52.133	1.935
18:32	20.78	52.131	1.935
18:45	21.00	52.128	1.933
19:00	21.25	52.123	1.930
19:15	21.50	52.116	1.930
19:30	21.75	52.110	1.922
19:45	22.00	52.104	1.917
20:00	22.25	52.098	1.916
20:15	22.50	52.093	1.912
20:30	22.75	52.087	1.910
21:00	23.25	52.077	1.903
21:15	23.50	52.071	1.902
21:30	23.75	52.066	1.897
21:45	24.00	52.061	1.892
22:00	24.25	52.056	1.888
22:15	24.50	52.049	1.890
22:30	24.75	52.045	1.887
22:45	25.00	52.041	1.885
23:00	25.25	52.037	1.880
23:15	25.50	52.034	1.874
23:30	25.75	52.031	1.880
23:45	26.00	52.029	1.879
15-Apr-72			
00:15	26.50	52.029	1.882
00:30	26.75	52.031	1.887
00:45	27.00	52.037	1.891
01:00	27.25	52.043	1.893

Annex 1.20 Sequential vertical positions of Fish 10

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
13-Apr-72				14-Apr-72				14-Apr-72			
21:40	0.00	34.3	34.3	01:26	3.77	4.0	36.4	03:52	6.20	32.2	32.2
21:45	0.08	35.1	35.1	01:28	3.80	4.0	36.4	03:54	6.23	31.8	31.8
21:55	0.25	28.3	28.3	01:30	3.83	4.0	37.7	03:56	6.27	32.2	32.2
22:00	0.33	30.6	30.6	01:32	3.87	4.0	38.9	03:58	6.30	31.8	31.8
22:05	0.42	33.8	33.8	01:34	3.90	13.4	38.3	04:00	6.33	29.8	29.8
22:10	0.50	35.9	35.9	01:36	3.93	11.6	36.6	04:02	6.37	30.4	30.4
22:15	0.58	32.5	32.5	01:38	3.97	13.8	33.1	04:04	6.40	34.5	34.5
22:20	0.67	35.3	35.3	01:40	4.00	9.2	35.2	04:06	6.43	32.2	35.3
22:25	0.75	31.2	35.7	01:42	4.03	9.8	32.7	04:08	6.47	32.7	32.7
22:30	0.83	35.5	35.5	01:45	4.08	6.6	30.0	04:10	6.50	29.8	29.7
22:35	0.92	32.6	35.2	01:48	4.13	4.0	25.6	04:12	6.53	32.5	32.5
22:40	1.00	36.4	36.4	01:50	4.17	16.6	29.1	04:14	6.57	30.4	33.7
22:45	1.08	30.2	30.2	01:52	4.20	17.1	27.5	04:15	6.58	30.6	33.5
22:50	1.17	36.1	36.1	01:54	4.23	19.7	27.5	04:16	6.60	29.8	32.7
22:55	1.25	33.3	33.2	01:56	4.27	17.1	24.9	04:18	6.63	31.4	31.4
23:00	1.33	35.3	38.7	01:58	4.30	21.8	27.7	04:20	6.67	31.1	31.1
23:05	1.42	34.5	38.8	02:00	4.33	13.8	25.9	04:22	6.70	32.9	32.9
23:10	1.50	30.6	33.5	02:02	4.37	20.7	24.8	04:24	6.73	32.5	32.5
23:15	1.58	23.2	34.6	02:04	4.40	12.4	26.3	04:26	6.77	32.7	32.7
23:20	1.67	25.9	38.3	02:06	4.43	12.4	26.3	04:28	6.80	29.0	29.0
23:22	1.70	18.0	33.8	02:08	4.47	12.9	27.7	04:30	6.83	29.1	29.1
23:24	1.73	15.5	32.5	02:10	4.50	19.7	24.9	04:32	6.87	30.4	30.4
23:26	1.77	14.5	31.0	02:12	4.53	12.1	28.2	04:34	6.90	30.6	30.6
23:28	1.80	11.6	29.2	02:15	4.58	8.4	21.4	04:36	6.93	32.7	32.7
23:30	1.83	12.4	29.0	02:22	4.70	8.7	27.4	04:38	6.97	29.1	32.2
23:32	1.87	10.1	25.3	02:24	4.73	7.0	24.7	04:40	7.00	30.9	30.9
23:34	1.90	10.3	32.2	02:26	4.77	7.5	28.4	04:42	7.03	29.8	29.8
23:36	1.93	8.7	34.4	02:28	4.80	6.6	24.9	04:45	7.08	34.5	34.5
23:38	1.97	7.8	32.5	02:30	4.83	4.0	23.5	04:48	7.13	31.7	34.1
23:52	2.20	5.8	28.2	02:32	4.87	4.0	20.7	04:50	7.17	22.1	31.0
23:54	2.23	4.0	28.7	02:34	4.90	4.0	28.6	04:52	7.20	22.8	29.8
14-Apr-72				02:36	4.93	6.8	29.0	04:54	7.23	22.9	30.9
00:00	2.33	8.2	28.9	02:38	4.97	9.6	29.0	04:56	7.27	24.7	33.5
00:02	2.37	8.9	30.7	02:40	5.00	4.0	29.7	04:58	7.30	26.3	34.5
00:04	2.40	9.8	32.5	02:42	5.03	7.3	30.4	05:00	7.33	22.3	34.4
00:08	2.47	9.8	28.7	02:45	5.08	4.0	28.2	05:02	7.37	23.3	36.1
00:10	2.50	10.8	31.0	02:48	5.13	4.0	31.4	05:04	7.40	22.7	33.9
00:12	2.53	10.8	31.0	02:50	5.17	4.0	31.4	05:06	7.43	19.7	35.3
00:15	2.58	10.5	30.0	02:52	5.20	4.0	24.9	05:08	7.47	16.8	34.7
00:18	2.63	10.8	33.2	02:54	5.23	4.0	25.3	05:10	7.50	15.2	34.0
00:22	2.70	7.8	28.7	02:56	5.27	4.0	23.5	05:12	7.53	16.5	33.0
00:24	2.73	8.0	31.8	02:58	5.30	4.0	23.5	05:15	7.58	13.9	33.7
00:26	2.77	7.8	30.6	03:00	5.33	4.0	24.9	05:18	7.63	16.6	35.3
00:28	2.80	6.3	31.0	03:02	5.37	8.9	23.5	05:20	7.67	17.5	33.6
00:32	2.87	4.0	31.0	03:04	5.40	6.4	23.5	05:22	7.70	19.2	34.1
00:34	2.90	5.9	30.6	03:06	5.43	4.0	24.9	05:24	7.73	18.4	35.5
00:38	2.97	6.1	28.9	03:08	5.47	4.0	25.6	05:26	7.77	21.4	35.3
00:40	3.00	6.2	27.9	03:10	5.50	4.0	23.5	05:28	7.80	24.9	35.2
00:42	3.03	7.5	28.2	03:15	5.58	9.9	33.5	05:30	7.83	19.8	31.0
00:45	3.08	9.8	30.6	03:18	5.63	12.4	34.5	05:32	7.87	18.6	33.1
00:50	3.17	7.1	34.8	03:20	5.67	17.1	32.6	05:34	7.90	17.5	30.9
00:55	3.25	6.1	35.1	03:22	5.70	24.9	32.6	05:36	7.93	19.7	32.2
00:58	3.30	5.9	34.3	03:24	5.73	28.4	31.4	05:38	7.97	18.7	33.2
01:00	3.33	8.9	35.5	03:26	5.77	27.0	32.7	05:40	8.00	22.8	35.3
01:02	3.37	6.3	35.4	03:28	5.80	30.1	30.0	05:42	8.03	20.2	33.6
01:04	3.40	4.0	35.4	03:30	5.83	31.8	31.8	05:45	8.08	21.4	35.3
01:06	3.43	4.0	35.4	03:32	5.87	29.8	29.8	05:48	8.13	23.6	35.3
01:08	3.47	4.0	35.1	03:34	5.90	29.8	29.8	05:50	8.17	21.0	34.5
01:10	3.50	4.0	36.7	03:36	5.93	25.3	31.4	05:52	8.20	16.2	34.4
01:12	3.53	4.0	36.4	03:38	5.97	24.1	29.8	05:54	8.23	20.6	33.7
01:15	3.58	4.0	37.6	03:40	6.00	27.7	27.7	05:56	8.27	19.7	35.3
01:18	3.63	6.6	37.7	03:42	6.03	30.4	30.4	05:58	8.30	16.0	36.0
01:20	3.67	6.6	35.2	03:45	6.08	31.8	31.8	06:00	8.33	21.8	36.4
01:22	3.70	4.0	38.9	03:48	6.13	30.1	30.0	06:02	8.37	19.2	34.1
01:24	3.73	4.0	37.7	03:50	6.17	32.2	32.2	06:04	8.40	21.7	31.7

Annex 1.20 Sequential vertical positions of Fish 10 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
14-Apr-72				14-Apr-72				14-Apr-72			
06:06	8.43	20.7	34.5	09:36	11.93	15.5	24.1	12:15	14.58	6.8	31.8
06:08	8.47	24.4	34.5	09:40	12.00	16.3	28.6	12:18	14.63	4.0	32.7
06:10	8.50	22.3	36.9	09:45	12.08	12.0	25.9	12:20	14.67	4.0	32.6
06:12	8.53	20.1	32.9	09:50	12.17	10.5	25.7	12:22	14.70	4.0	34.1
06:15	8.58	23.5	31.8	09:55	12.25	15.0	33.2	12:24	14.73	4.0	36.2
06:18	8.63	23.3	32.9	09:57	12.28	10.8	34.5	12:26	14.77	4.0	37.4
06:20	8.67	27.5	35.3	10:00	12.33	7.0	33.5	12:28	14.80	4.0	34.5
06:22	8.70	24.9	37.4	10:02	12.37	7.2	36.1	12:30	14.83	4.0	37.9
06:24	8.73	22.3	36.9	10:04	12.40	7.5	38.7	12:32	14.87	4.0	41.5
06:26	8.77	22.8	35.3	10:06	12.43	7.1	40.4	12:34	14.90	4.0	39.2
06:28	8.80	20.7	31.8	10:08	12.47	6.8	40.0	12:36	14.93	4.0	38.9
06:30	8.83	19.7	32.2	10:10	12.50	6.9	38.3	12:38	14.97	4.0	39.3
06:32	8.87	20.7	37.4	10:15	12.58	7.7	36.9	12:40	15.00	4.0	39.3
06:34	8.90	21.4	34.5	10:18	12.63	6.6	35.2	12:42	15.03	4.0	38.3
06:36	8.93	21.4	34.5	10:20	12.67	6.1	33.0	12:45	15.08	4.0	38.9
06:38	8.97	21.0	34.5	10:22	12.70	5.9	32.5	12:48	15.13	4.0	36.2
06:40	9.00	18.8	33.5	10:24	12.73	5.9	38.0	12:50	15.17	4.0	37.3
06:42	9.03	21.4	32.8	10:26	12.77	6.3	37.6	12:52	15.20	4.0	37.6
06:45	9.08	25.4	36.1	10:28	12.80	9.6	34.5	12:54	15.23	6.3	37.6
06:48	9.13	26.0	36.9	10:30	12.83	7.4	34.5	12:56	15.27	6.6	37.7
06:50	9.17	23.9	33.7	10:32	12.87	7.8	37.6	12:58	15.30	7.0	36.4
06:52	9.20	31.8	34.5	10:34	12.90	7.0	39.3	13:00	15.33	7.5	35.3
06:54	9.23	34.8	34.8	10:36	12.93	6.7	41.5	13:02	15.37	4.0	34.5
06:56	9.27	34.5	34.5	10:38	12.97	6.6	42.8	13:04	15.40	4.0	33.0
06:58	9.30	38.8	38.8	10:40	13.00	6.9	43.9	13:06	15.43	4.0	30.0
07:00	9.33	35.1	35.1	10:42	13.03	7.0	45.1	13:08	15.47	4.0	29.0
07:05	9.42	35.5	35.5	10:45	13.08	4.0	42.2	13:10	15.50	4.0	29.1
07:10	9.50	27.5	35.2	10:48	13.13	4.0	37.6	13:12	15.53	4.0	28.2
07:12	9.53	24.9	35.2	10:50	13.17	7.7	44.1	13:14	15.57	6.4	25.9
07:14	9.57	26.3	34.5	10:52	13.20	10.5	45.6	13:15	15.58	4.0	26.7
07:16	9.60	21.4	31.8	10:54	13.23	7.1	43.4	13:18	15.63	4.0	26.3
07:20	9.67	23.9	37.0	10:56	13.27	7.0	39.3	13:20	15.67	4.0	28.2
07:22	9.70	24.3	35.4	10:58	13.30	10.1	40.4	13:22	15.70	4.0	28.2
07:24	9.73	25.1	32.1	11:00	13.33	11.0	42.2	13:24	15.73	6.9	29.8
07:26	9.77	25.9	29.1	11:02	13.37	11.7	42.2	13:26	15.77	6.8	31.4
07:27	9.78	33.3	33.2	11:04	13.40	7.5	42.2	13:28	15.80	6.3	28.8
07:30	9.83	34.6	34.6	11:06	13.43	7.0	39.3	13:30	15.83	11.2	25.6
07:35	9.92	32.2	35.3	11:08	13.47	4.0	35.5	13:32	15.87	9.2	24.9
07:40	10.00	34.6	34.6	11:10	13.50	4.0	36.9	13:34	15.90	7.1	29.1
07:45	10.08	35.3	35.3	11:12	13.53	4.0	32.0	13:36	15.93	11.6	26.7
07:50	10.17	33.5	33.5	11:15	13.58	7.0	36.4	13:38	15.97	6.6	24.9
07:55	10.25	31.8	31.8	11:18	13.63	6.4	35.5	13:40	16.00	4.0	22.3
08:00	10.33	29.2	31.7	11:20	13.67	6.3	33.2	13:42	16.03	4.0	21.2
08:04	10.40	26.5	33.9	11:22	13.70	4.0	32.1	13:45	16.08	13.7	26.5
08:06	10.43	30.2	30.2	11:24	13.73	4.0	31.7	13:48	16.13	18.4	24.1
08:08	10.47	29.8	32.9	11:26	13.77	4.0	31.8	13:50	16.17	12.4	23.5
08:09	10.48	33.7	33.7	11:28	13.80	6.4	34.4	13:52	16.20	12.4	26.3
08:13	10.55	29.0	31.8	11:30	13.83	4.0	32.1	13:54	16.23	13.8	25.9
08:14	10.57	27.2	33.7	11:32	13.87	4.0	32.7	13:56	16.27	11.0	27.3
08:15	10.58	29.0	32.5	11:34	13.90	4.0	31.8	13:58	16.30	13.1	26.6
08:17	10.62	30.7	35.1	11:36	13.93	6.4	30.7	14:00	16.33	13.8	25.9
08:20	10.67	32.2	32.2	11:38	13.97	4.0	30.7	14:02	16.37	15.2	26.3
08:22	10.70	29.1	33.2	11:40	14.00	4.0	32.1	14:04	16.40	11.9	27.5
08:25	10.75	27.2	30.4	11:42	14.03	4.0	30.9	14:06	16.43	10.0	25.9
08:28	10.80	27.2	30.4	11:45	14.08	4.0	29.2	14:08	16.47	8.0	25.9
08:30	10.83	26.5	30.2	11:48	14.13	4.0	29.2	14:10	16.50	8.0	25.9
08:32	10.87	33.8	33.8	11:50	14.17	4.0	30.9	14:14	16.57	8.0	25.9
08:40	11.00	27.0	29.8	11:52	14.20	4.0	32.6	14:15	16.58	8.4	25.7
08:42	11.03	23.5	25.9	11:54	14.23	4.0	28.9	14:18	16.63	6.1	26.9
08:45	11.08	27.0	30.8	11:56	14.27	4.0	30.0	14:20	16.67	6.5	26.7
08:53	11.22	27.0	27.0	11:58	14.30	4.0	30.9	14:24	16.73	6.8	29.0
08:55	11.25	27.5	27.5	12:00	14.33	4.0	31.8	14:26	16.77	6.0	28.1
09:00	11.33	27.7	30.6	12:02	14.37	4.0	31.7	14:28	16.80	6.3	31.0
09:10	11.50	25.3	28.4	12:04	14.40	4.0	30.7	14:30	16.83	6.5	31.7
09:15	11.58	32.2	32.2	12:06	14.43	4.0	30.0	14:38	16.97	4.0	28.8
09:24	11.73	23.1	26.9	12:08	14.47	4.0	29.0	14:40	17.00	6.4	30.3
09:26	11.77	16.8	27.6	12:10	14.50	4.0	30.6	14:42	17.03	4.0	28.7
09:30	11.83	23.1	28.2	12:12	14.53	4.0	31.8	14:45	17.08	5.9	28.7

Annex 1.20 Sequential vertical positions of Fish 10 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
14-Apr-72				14-Apr-72				14-Apr-72			
14:48	17.13	5.9	26.9	17:10	19.50	4.0	35.2	19:40	22.00	27.7	30.6
14:50	17.17	4.0	29.2	17:12	19.53	4.0	35.5	19:42	22.03	27.2	30.4
14:52	17.20	4.0	30.6	17:15	19.58	6.5	36.6	19:45	22.08	31.8	35.3
14:54	17.23	4.0	29.9	17:16	19.60	6.8	34.5	19:48	22.13	26.6	32.9
14:56	17.27	6.1	28.9	17:18	19.63	4.0	35.3	19:50	22.17	29.1	32.2
14:58	17.30	4.0	27.7	17:20	19.67	4.0	40.0	19:52	22.20	30.2	30.2
15:00	17.33	4.0	30.6	17:22	19.70	6.1	35.1	19:54	22.23	35.3	35.3
15:02	17.37	4.0	30.0	17:24	19.73	4.0	35.2	19:56	22.27	33.2	33.2
15:04	17.40	4.0	28.3	17:26	19.77	4.0	35.2	19:58	22.30	31.8	31.8
15:06	17.43	7.1	29.1	17:28	19.80	4.0	34.1	20:00	22.33	31.4	31.4
15:08	17.47	7.6	32.5	17:30	19.83	4.0	35.3	20:02	22.37	30.2	30.2
15:10	17.50	4.0	29.1	17:32	19.87	4.0	34.4	20:04	22.40	33.2	33.2
15:12	17.53	4.0	30.0	17:34	19.90	7.0	36.4	20:06	22.43	31.1	31.1
15:15	17.58	7.2	32.9	17:36	19.93	7.0	33.5	20:08	22.47	29.8	29.7
15:18	17.63	4.0	32.2	17:38	19.97	7.3	37.0	20:10	22.50	29.8	29.7
15:20	17.67	4.0	32.2	17:40	20.00	10.6	37.0	20:12	22.53	32.9	32.9
15:22	17.70	7.3	33.7	17:42	20.03	10.8	37.9	20:15	22.58	27.8	31.1
15:24	17.73	7.1	35.3	17:45	20.08	7.3	33.7	20:18	22.63	27.2	30.4
15:26	17.77	4.0	34.5	17:48	20.13	7.5	35.3	20:20	22.67	32.0	32.0
15:28	17.80	15.3	39.8	17:50	20.17	7.7	36.9	20:22	22.70	30.4	30.4
15:30	17.83	4.0	29.9	17:52	20.20	4.0	35.3	20:24	22.73	29.8	29.7
15:32	17.87	8.9	30.7	17:54	20.23	4.0	36.1	20:26	22.77	29.1	29.1
15:34	17.90	4.0	35.3	17:56	20.27	4.0	35.5	20:28	22.80	30.4	30.4
15:36	17.93	4.0	34.6	18:00	20.33	4.0	33.4	20:30	22.83	33.2	33.2
15:38	17.97	7.5	31.8	18:02	20.37	5.7	33.4	20:32	22.87	29.0	29.0
15:40	18.00	7.8	33.9	18:04	20.40	4.0	31.8	20:34	22.90	30.8	30.8
15:42	18.03	4.0	33.2	18:06	20.43	4.0	33.4	20:36	22.93	29.6	29.6
15:45	18.08	4.0	32.5	18:12	20.53	4.0	39.1	20:38	22.97	29.8	29.7
15:48	18.13	5.8	31.2	18:14	20.57	6.6	37.7	20:40	23.00	29.0	29.0
15:50	18.17	6.3	35.4	18:16	20.60	6.8	37.3	20:42	23.03	24.9	24.9
15:52	18.20	6.7	33.6	18:20	20.67	4.0	40.0	20:50	23.17	33.3	33.2
15:54	18.23	4.0	34.4	18:24	20.73	4.0	37.3	20:52	23.20	29.6	29.6
15:56	18.27	7.1	34.4	18:26	20.77	4.0	36.2	20:54	23.23	29.8	29.7
15:58	18.30	4.0	32.9	18:28	20.80	6.9	35.5	20:56	23.27	28.0	28.0
16:00	18.33	7.2	36.1	18:30	20.83	7.4	37.9	20:58	23.30	30.2	30.2
16:02	18.37	6.9	35.5	18:32	20.87	4.0	36.0	21:00	23.33	27.8	27.8
16:04	18.40	6.4	34.6	18:34	20.90	8.3	38.1	21:02	23.37	28.0	28.0
16:06	18.43	6.1	33.0	18:36	20.93	4.0	36.0	21:04	23.40	32.6	32.6
16:08	18.47	6.1	35.1	18:38	20.97	4.0	32.6	21:06	23.43	32.0	36.0
16:10	18.50	4.0	34.2	18:40	21.00	4.0	33.2	21:08	23.47	34.6	34.6
16:12	18.53	4.0	37.6	18:42	21.03	7.9	39.2	21:10	23.50	32.5	32.5
16:15	18.58	4.0	37.1	18:45	21.08	11.3	36.9	21:12	23.53	32.5	32.5
16:16	18.60	4.0	34.3	18:48	21.13	7.6	36.1	21:15	23.58	30.8	30.8
16:18	18.63	4.0	37.2	18:50	21.17	7.8	33.9	21:18	23.63	32.0	32.0
16:20	18.67	5.9	34.3	18:52	21.20	8.0	36.0	21:20	23.67	33.2	33.2
16:22	18.70	7.0	36.4	18:54	21.23	7.8	38.4	21:22	23.70	35.3	35.3
16:24	18.73	4.0	37.0	18:56	21.27	12.6	35.5	21:24	23.73	35.3	35.3
16:26	18.77	4.0	35.4	18:58	21.30	17.9	37.3	21:26	23.77	33.7	33.7
16:28	18.80	4.0	35.8	18:59	21.32	21.8	39.3	21:28	23.80	36.1	36.1
16:30	18.83	4.0	34.3	19:00	21.33	27.8	37.9	21:30	23.83	33.2	33.2
16:32	18.87	4.0	33.7	19:02	21.37	26.0	36.9	21:32	23.87	32.2	32.2
16:34	18.90	4.0	33.2	19:04	21.40	32.0	40.0	21:34	23.90	30.4	30.4
16:36	18.93	4.0	35.3	19:06	21.43	26.0	36.9	21:36	23.93	28.0	32.0
16:38	18.97	7.4	34.5	19:08	21.47	21.8	36.4	21:38	23.97	32.2	32.2
16:40	19.00	4.0	33.7	19:10	21.50	19.7	35.2	21:40	24.00	27.7	30.6
16:42	19.03	4.0	36.2	19:12	21.53	19.7	35.2	21:42	24.03	27.2	27.2
16:45	19.08	6.4	34.4	19:15	21.58	15.9	36.4	21:45	24.08	29.0	29.0
16:48	19.13	6.3	35.4	19:18	21.63	13.9	33.7	21:48	24.13	27.2	27.2
16:50	19.17	4.0	34.7	19:20	21.67	13.9	37.0	21:50	24.17	29.6	29.6
16:52	19.20	4.0	35.4	19:22	21.70	13.2	34.4	21:52	24.20	29.6	29.6
16:54	19.23	6.7	36.2	19:24	21.73	13.2	34.4	21:54	24.23	27.2	27.2
16:56	19.27	4.0	37.0	19:26	21.77	16.9	36.1	21:56	24.27	25.8	25.8
16:58	19.30	4.0	35.3	19:28	21.80	14.2	34.5	21:58	24.30	29.1	29.1
17:00	19.33	4.0	34.1	19:30	21.83	17.6	34.5	22:00	24.33	27.0	30.8
17:02	19.37	4.0	34.4	19:32	21.87	23.9	33.7	22:02	24.37	28.4	28.4
17:04	19.40	4.0	31.2	19:34	21.90	23.9	33.7	22:04	24.40	28.0	28.0
17:06	19.43	4.0	33.4	19:36	21.93	21.9	32.5	22:06	24.43	29.0	29.0
17:08	19.47	4.0	33.0	19:38	21.97	27.2	33.7	22:08	24.47	27.8	27.8

Annex 1.20 Sequential vertical positions of Fish 10 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
14-Apr-72				15-Apr-72			
22:10	24.50	27.2	27.2	00:38	26.97	20.7	31.8
22:12	24.53	27.5	27.5	00:40	27.00	19.7	25.9
22:15	<i>24.58</i>	31.7	31.7	00:42	27.03	19.7	27.5
22:18	24.63	29.1	29.1	00:45	27.08	18.4	32.7
22:20	24.67	28.0	32.0	00:48	27.13	19.7	31.4
22:22	24.70	27.8	31.1	00:50	27.17	15.0	29.6
22:24	24.73	29.6	29.6	00:52	27.20	12.0	28.0
22:26	24.77	29.0	29.0	00:54	27.23	11.9	27.5
22:28	24.80	29.8	29.7	00:56	27.27	11.9	23.6
22:30	24.83	28.4	28.4	00:58	27.30	8.2	20.7
22:32	24.87	27.0	30.8	01:00	27.33	8.7	22.8
22:34	24.90	28.4	33.3				
22:36	24.93	31.5	31.5				
22:38	24.97	30.1	30.1				
22:40	25.00	25.9	25.9				
22:42	25.03	30.4	30.4				
22:45	25.08	29.8	29.7				
22:48	25.13	30.1	30.1				
22:50	25.17	31.9	37.4				
22:52	25.20	27.0	32.8				
22:54	25.23	28.8	33.8				
22:56	25.27	33.3	33.2				
22:58	25.30	32.2	32.2				
23:00	25.33	30.1	30.0				
23:02	25.37	24.7	27.7				
23:04	25.40	27.0	30.8				
23:06	25.43	25.8	30.1				
23:08	25.47	27.2	27.2				
23:10	25.50	24.0	24.0				
23:12	25.53	24.2	24.2				
23:15	25.58	18.8	24.7				
23:18	25.63	27.1	27.1				
23:20	25.67	28.4	28.4				
23:22	25.70	25.8	25.8				
23:24	25.73	25.3	28.4				
23:26	25.77	24.2	26.7				
23:28	25.80	27.5	27.5				
23:30	25.83	23.9	27.2				
23:32	25.87	24.9	29.1				
23:34	25.90	26.7	31.2				
23:36	25.93	28.4	28.4				
23:38	25.97	23.5	25.9				
23:42	26.03	24.1	27.0				
23:45	26.08	23.5	26.3				
23:48	26.13	22.8	25.9				
23:50	26.17	25.9	29.1				
23:52	26.20	26.3	29.0				
23:54	26.23	24.7	27.7				
23:56	26.27	24.1	29.8				
23:58	26.30	19.2	24.2				
15-Apr-72							
00:00	26.33	13.9	20.6				
00:02	26.37	15.5	23.2				
00:04	26.40	15.0	22.3				
00:06	26.43	18.0	24.9				
00:08	26.47	20.1	29.7				
00:10	26.50	19.7	27.5				
00:12	26.53	20.7	33.2				
00:15	26.58	23.3	29.7				
00:18	26.63	20.6	30.4				
00:20	26.67	20.8	30.3				
00:22	26.70	15.2	26.3				
00:26	26.77	15.0	29.6				
00:28	26.80	20.6	30.4				
00:30	26.83	18.8	30.6				
00:32	26.87	18.0	28.4				
00:34	26.90	20.0	32.0				
00:36	26.93	22.3	33.2				

Annex 1.21 Sequential geographical positions of Fish 11

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
17-Apr-72				18-Apr-72				18-Apr-72			
10:45	0.00	52.310	2.002	02:15	15.50	52.174	2.074	18:00	31.25	52.340	2.272
11:00	0.25	52.309	2.001	02:30	15.75	52.174	2.082	18:15	31.50	52.348	2.277
11:15	0.50	52.307	2.003	02:45	16.00	52.174	2.085	18:30	31.75	52.355	2.278
11:30	0.75	52.305	2.004	03:00	16.25	52.176	2.092	18:45	32.00	52.362	2.286
11:45	1.00	52.304	2.004	03:15	16.50	52.178	2.097	19:00	32.25	52.369	2.290
12:00	1.25	52.303	2.006	03:30	16.75	52.181	2.105	19:15	32.50	52.377	2.296
12:15	1.50	52.301	2.005	03:45	17.00	52.186	2.120	19:45	33.00	52.392	2.303
12:30	1.75	52.298	2.005	04:00	17.25	52.191	2.126	20:00	33.25	52.398	2.307
12:45	2.00	52.297	2.005	04:15	17.50	52.197	2.129	20:15	33.50	52.405	2.311
13:00	2.25	52.297	2.006	04:30	17.75	52.204	2.136	20:30	33.75	52.410	2.313
13:15	2.50	52.297	2.008	04:45	18.00	52.210	2.137	20:45	34.00	52.414	2.311
13:30	2.75	52.295	2.010	05:00	18.25	52.217	2.146	21:00	34.25	52.415	2.311
13:45	3.00	52.294	2.013	05:15	18.50	52.223	2.153	21:15	34.50	52.417	2.315
14:00	3.25	52.293	2.017	05:30	18.75	52.230	2.158	21:30	34.75	52.418	2.317
14:15	3.50	52.294	2.021	05:45	19.00	52.237	2.163	21:45	35.00	52.418	2.325
14:30	3.75	52.295	2.024	06:00	19.25	52.243	2.165	22:15	35.50	52.416	2.329
14:45	4.00	52.297	2.028	06:15	19.50	52.248	2.172	22:30	35.75	52.416	2.327
15:00	4.25	52.299	2.031	06:30	19.75	52.255	2.179	22:45	36.00	52.417	2.331
15:15	4.50	52.302	2.031	06:45	20.00	52.260	2.183	23:00	36.25	52.416	2.327
15:30	4.75	52.302	2.031	07:00	20.25	52.266	2.186				
15:45	5.00	52.303	2.034	07:15	20.50	52.272	2.189				
16:00	5.25	52.305	2.037	07:30	20.75	52.277	2.193				
16:15	5.50	52.306	2.040	07:45	21.00	52.281	2.197				
16:30	5.75	52.307	2.042	08:00	21.25	52.285	2.201				
16:45	6.00	52.309	2.045	08:15	21.50	52.287	2.209				
17:00	6.25	52.309	2.046	08:30	21.75	52.288	2.205				
17:15	6.50	52.310	2.046	08:45	22.00	52.288	2.205				
17:30	6.75	52.309	2.047	09:00	22.25	52.288	2.207				
17:45	7.00	52.309	2.046	09:15	22.50	52.287	2.206				
18:00	7.25	52.309	2.047	09:30	22.75	52.287	2.207				
18:15	7.50	52.309	2.046	09:45	23.00	52.287	2.206				
18:30	7.75	52.310	2.047	10:00	23.25	52.287	2.207				
18:45	8.00	52.310	2.049	10:15	23.50	52.286	2.206				
19:00	8.25	52.310	2.050	10:30	23.75	52.286	2.207				
19:15	8.50	52.310	2.047	10:45	24.00	52.285	2.207				
19:30	8.75	52.310	2.048	11:00	24.25	52.285	2.206				
19:45	9.00	52.309	2.048	11:15	24.50	52.285	2.208				
20:00	9.25	52.308	2.047	11:30	24.75	52.285	2.208				
20:15	9.50	52.307	2.051	11:45	25.00	52.285	2.208				
20:30	9.75	52.306	2.054	12:00	25.25	52.284	2.208				
20:45	10.00	52.303	2.054	12:15	25.50	52.283	2.208				
21:00	10.25	52.300	2.053	12:30	25.75	52.283	2.207				
21:15	10.50	52.294	2.053	12:45	26.00	52.283	2.207				
21:30	10.75	52.289	2.051	13:00	26.25	52.283	2.207				
21:45	11.00	52.283	2.060	13:15	26.50	52.283	2.207				
22:00	11.25	52.276	2.058	13:30	26.75	52.283	2.208				
22:15	11.50	52.268	2.057	13:45	27.00	52.283	2.208				
22:30	11.75	52.260	2.060	14:00	27.25	52.282	2.210				
22:45	12.00	52.252	2.058	14:15	27.50	52.281	2.214				
23:00	12.25	52.244	2.058	14:30	27.75	52.281	2.216				
23:15	12.50	52.236	2.058	14:45	28.00	52.280	2.218				
23:30	12.75	52.227	2.056	15:00	28.25	52.279	2.222				
23:45	13.00	52.220	2.059	15:15	28.50	52.280	2.224				
18-Apr-72				15:30	28.75	52.281	2.229				
00:00	13.25	52.213	2.060	15:45	29.00	52.284	2.233				
00:15	13.50	52.205	2.055	16:00	29.25	52.288	2.236				
00:30	13.75	52.200	2.059	16:15	29.50	52.293	2.243				
00:45	14.00	52.194	2.063	16:30	29.75	52.299	2.245				
01:00	14.25	52.190	2.059	16:45	30.00	52.304	2.251				
01:15	14.50	52.185	2.064	17:00	30.25	52.308	2.262				
01:30	14.75	52.180	2.066	17:15	30.50	52.318	2.262				
01:45	15.00	52.177	2.068	17:30	30.75	52.325	2.265				
02:00	15.25	52.176	2.073	17:45	31.00	52.332	2.270				

Annex 1.22 Sequential vertical positions of Fish 11

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
17-Apr-72				17-Apr-72				17-Apr-72			
10:40	0.00	43.1	43.1	13:48	3.13	40.8	40.8	17:20	6.67	42.2	42.2
10:45	0.08	43.0	43.0	13:50	3.17	36.9	40.5	17:25	6.75	41.3	41.3
10:50	0.17	47.8	47.8	13:52	3.20	37.9	41.2	17:30	6.83	39.6	39.6
10:55	0.25	45.0	45.0	13:54	3.23	35.3	42.2	17:35	6.92	42.2	42.2
11:00	0.33	44.5	44.5	13:56	3.27	37.6	41.3	17:40	7.00	40.5	40.5
11:05	0.42	45.0	45.0	13:58	3.30	40.0	43.9	17:45	7.08	43.9	43.9
11:10	0.50	43.1	43.1	14:00	3.33	38.4	38.3	17:50	7.17	42.2	42.2
11:15	0.58	45.7	45.7	14:02	3.37	37.4	37.4	17:55	7.25	42.2	42.2
11:20	0.67	48.3	48.3	14:04	3.40	38.4	38.3	18:00	7.33	42.2	42.2
11:25	0.75	42.5	42.5	14:06	3.43	38.7	38.7	18:05	7.42	41.4	41.4
11:30	0.83	43.9	43.9	14:08	3.47	43.1	43.1	18:10	7.50	39.6	39.6
11:35	0.92	44.8	44.8	14:10	3.50	36.9	36.9	18:15	7.58	42.2	42.2
11:40	1.00	43.1	43.1	14:12	3.53	37.9	37.9	18:20	7.67	41.5	41.5
11:45	1.08	45.7	45.7	14:15	3.58	38.4	38.4	18:25	7.75	40.3	40.3
11:50	1.17	46.5	46.5	14:18	3.63	38.4	42.2	18:30	7.83	41.4	41.4
11:55	1.25	42.2	42.2	14:20	3.67	37.9	41.2	18:35	7.92	40.0	40.0
12:00	1.33	44.8	44.8	14:22	3.70	40.3	40.3	18:40	8.00	42.2	42.2
12:04	1.40	40.5	40.5	14:24	3.73	40.0	40.0	18:45	8.08	42.2	42.2
12:05	1.42	40.5	40.5	14:26	3.77	40.0	40.0	18:50	8.17	41.5	41.5
12:06	1.43	39.6	39.6	14:28	3.80	39.6	39.6	18:55	8.25	40.0	40.0
12:10	1.50	39.6	39.6	14:30	3.83	43.1	43.1	19:00	8.33	42.2	42.2
12:12	1.53	42.2	42.2	14:32	3.87	43.1	43.1	19:05	8.42	39.3	39.3
12:15	1.58	43.1	43.1	14:34	3.90	41.3	41.3	19:10	8.50	43.9	43.9
12:18	1.63	41.5	41.5	14:36	3.93	42.2	42.2	19:15	8.58	41.2	41.2
12:20	1.67	38.7	38.7	14:38	3.97	40.8	40.8	19:20	8.67	40.5	40.5
12:22	1.70	40.3	40.3	14:40	4.00	42.2	42.2	19:25	8.75	42.2	42.2
12:24	1.73	39.6	39.6	14:42	4.03	39.6	39.6	19:30	8.83	40.3	40.3
12:26	1.77	43.1	43.1	14:45	4.08	38.7	38.7	19:35	8.92	43.1	43.1
12:28	1.80	40.8	40.8	14:48	4.13	39.2	39.2	19:40	9.00	41.2	41.2
12:30	1.83	40.8	40.8	14:50	4.17	40.0	40.0	19:45	9.08	41.2	41.2
12:32	1.87	38.4	42.2	14:52	4.20	42.2	42.2	19:50	9.17	42.2	42.2
12:34	1.90	40.0	43.9	14:54	4.23	40.6	40.6	19:55	9.25	42.7	42.7
12:36	1.93	41.5	41.5	14:56	4.27	40.3	40.3	20:00	9.33	42.2	42.2
12:38	1.97	41.5	41.5	14:58	4.30	42.5	42.5	20:05	9.42	41.3	41.3
12:40	2.00	41.5	41.5	15:00	4.33	40.0	39.9	20:10	9.50	39.3	39.3
12:42	2.03	42.3	42.3	15:02	4.37	43.1	43.1	20:15	9.58	41.5	41.5
12:45	2.08	42.2	42.2	15:04	4.40	38.4	38.4	20:20	9.67	38.9	38.9
12:48	2.13	41.2	41.2	15:06	4.43	40.3	40.3	20:25	9.75	42.2	42.2
12:50	2.17	42.2	42.2	15:08	4.47	40.4	40.4	20:30	9.83	42.7	42.7
12:52	2.20	38.7	38.7	15:10	4.50	40.3	40.3	20:35	9.92	43.1	43.1
12:54	2.23	37.9	37.9	15:15	4.58	39.3	39.3	20:40	10.00	39.8	39.8
12:56	2.27	38.7	38.7	15:20	4.67	43.1	43.1	20:45	10.08	41.1	41.1
12:58	2.30	39.6	39.6	15:25	4.75	42.3	42.3	20:50	10.17	37.7	39.8
13:00	2.33	39.6	39.6	15:30	4.83	40.5	40.5	20:55	10.25	37.4	40.4
13:02	2.37	41.2	41.2	15:35	4.92	40.4	40.4	20:58	10.30	37.0	40.3
13:04	2.40	38.0	38.0	15:40	5.00	41.1	41.1	21:00	10.33	38.4	38.4
13:06	2.43	40.0	40.0	15:45	5.08	40.3	40.3	21:02	10.37	38.7	38.7
13:08	2.47	40.8	40.8	15:50	5.17	40.0	40.0	21:04	10.40	37.0	40.3
13:10	2.50	40.8	40.8	15:55	5.25	40.9	40.9	21:06	10.43	37.9	37.9
13:12	2.53	41.9	41.9	16:00	5.33	43.0	43.0	21:08	10.47	34.5	37.9
13:15	2.58	41.5	41.5	16:05	5.42	41.2	41.2	21:10	10.50	36.1	39.6
13:18	2.63	42.3	42.3	16:10	5.50	40.6	40.6	21:12	10.53	38.4	42.2
13:20	2.67	38.7	38.7	16:15	5.58	38.7	38.7	21:15	10.58	33.7	37.0
13:22	2.70	38.4	38.3	16:20	5.67	42.3	42.3	21:18	10.63	32.9	36.1
13:24	2.73	40.3	40.3	16:25	5.75	42.5	42.5	21:20	10.67	33.7	37.0
13:26	2.77	39.2	39.2	16:30	5.83	38.4	38.4	21:22	10.70	36.9	36.9
13:28	2.80	38.7	38.7	16:35	5.92	37.9	37.9	21:24	10.73	36.1	39.6
13:30	2.83	37.3	37.3	16:40	6.00	41.5	41.5	21:26	10.77	31.8	35.3
13:32	2.87	39.6	39.6	16:45	6.08	41.4	41.4	21:28	10.80	32.5	36.1
13:34	2.90	42.2	42.2	16:50	6.17	41.5	41.5	21:30	10.83	33.9	37.6
13:36	2.93	42.2	42.2	16:55	6.25	42.3	42.3	21:32	10.87	33.3	37.4
13:38	2.97	41.2	41.2	17:00	6.33	40.8	40.8	21:34	10.90	36.7	36.7
13:40	3.00	43.1	43.1	17:05	6.42	40.5	40.5	21:36	10.93	33.9	37.6
13:42	3.03	43.9	43.9	17:10	6.50	42.2	42.2	21:38	10.97	32.5	36.1
13:45	3.08	40.5	40.5	17:15	6.58	41.3	41.3	21:40	11.00	33.2	36.9

Annex 1.22 Sequential vertical positions of Fish 11 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
17-Apr-72				18-Apr-72				18-Apr-72			
21:42	11.03	33.2	36.9	02:06	15.43	41.2	41.2	05:55	19.25	33.3	41.5
21:45	11.08	33.2	36.9	02:08	15.47	37.9	37.9	06:00	19.33	34.5	44.5
21:48	11.13	30.8	34.6	02:10	15.50	40.5	40.5	06:05	19.42	42.3	46.5
21:50	11.17	31.8	35.3	02:12	15.53	40.5	40.5	06:10	19.50	32.5	39.6
21:52	11.20	30.4	33.7	02:15	15.58	38.7	38.7	06:15	19.58	20.4	36.7
21:54	11.23	31.8	31.8	02:18	15.63	36.9	40.5	06:20	19.67	27.2	46.7
21:56	11.27	33.2	36.9	02:20	15.67	33.7	40.3	06:25	19.75	23.5	45.4
21:58	11.30	31.8	35.3	02:22	15.70	34.5	37.9	06:30	19.83	30.6	42.2
22:00	11.33	29.6	33.2	02:24	15.73	38.4	42.2	06:35	19.92	30.4	40.3
22:05	11.42	33.3	37.4	02:26	15.77	37.0	40.3	06:40	20.00	36.1	43.1
22:10	11.50	29.9	33.1	02:28	15.80	35.3	38.3	06:45	20.08	37.3	37.3
22:15	11.58	32.2	36.9	02:30	15.83	34.5	37.9	06:50	20.17	25.9	32.2
22:20	11.67	27.5	35.3	02:32	15.87	37.6	41.3	06:55	20.25	23.2	30.8
22:25	11.75	27.8	34.5	02:34	15.90	35.3	42.2	07:00	20.33	29.1	41.4
22:30	11.83	32.5	39.6	02:36	15.93	32.2	41.4	07:05	20.42	30.6	43.4
22:35	11.92	32.0	40.0	02:38	15.97	32.2	38.3	07:10	20.50	33.5	39.3
22:40	12.00	36.9	40.5	02:40	16.00	31.8	38.7	07:15	20.58	29.0	37.3
22:45	12.08	38.7	42.2	02:42	16.03	34.6	42.2	07:20	20.67	33.2	37.6
22:50	12.17	45.7	45.7	02:45	16.08	35.3	42.2	07:25	20.75	29.0	37.3
22:55	12.25	44.1	44.1	02:48	16.13	37.6	41.3	07:30	20.83	28.4	37.4
23:00	12.33	37.0	40.3	02:50	16.17	38.7	42.2	07:35	20.92	30.2	37.6
23:05	12.42	34.5	43.1	02:52	16.20	36.1	39.3	07:40	21.00	26.3	37.3
23:10	12.50	40.0	40.0	02:54	16.23	34.5	37.9	07:45	21.08	26.3	34.5
23:15	12.58	31.8	35.3	02:56	16.27	38.4	42.2	07:50	21.17	30.8	38.4
23:20	12.67	36.1	39.6	02:58	16.30	38.7	42.2	07:55	21.25	32.7	35.5
23:25	12.75	33.2	36.9	03:00	16.33	35.3	38.3	08:00	21.33	31.4	34.4
23:30	12.83	37.6	37.6	03:02	16.37	33.7	40.3	08:02	21.37	33.7	33.7
23:35	12.92	35.5	41.1	03:04	16.40	33.2	40.5	08:04	21.40	29.6	33.2
23:40	13.00	40.0	43.9	03:06	16.43	35.3	38.7	08:06	21.43	36.9	36.9
23:45	13.08	44.8	44.8	03:08	16.47	32.2	38.3	08:08	21.47	35.3	38.7
23:50	13.17	43.1	43.1	03:10	16.50	31.1	37.9	08:10	21.50	36.1	36.1
23:55	13.25	44.1	44.1	03:12	16.53	33.2	40.5	08:12	21.53	32.5	36.1
18-Apr-72				03:15	16.58	32.2	38.3	08:15	21.58	34.6	38.4
00:00	13.33	37.9	41.2	03:18	16.63	29.0	39.6	08:18	21.63	40.3	40.3
00:05	13.42	43.9	47.9	03:20	16.67	34.6	42.2	08:20	21.67	37.4	37.4
00:10	13.50	38.7	42.2	03:22	16.70	31.8	42.2	08:22	21.70	34.4	37.4
00:15	13.58	38.8	43.1	03:24	16.73	30.4	40.3	08:24	21.73	32.2	38.3
00:20	13.67	41.2	41.2	03:26	16.77	28.4	38.7	08:26	21.77	34.5	37.9
00:25	13.75	40.0	43.9	03:28	16.80	30.8	42.2	08:28	21.80	33.2	36.9
00:30	13.83	39.6	43.1	03:30	16.83	31.4	40.4	08:30	21.83	30.2	37.6
00:35	13.92	41.5	45.7	03:35	16.92	35.3	38.3	08:32	21.87	30.8	38.4
00:40	14.00	40.4	40.4	03:40	17.00	33.7	43.5	08:34	21.90	38.4	38.4
00:45	14.08	40.0	40.0	03:45	17.08	33.7	43.5	08:36	21.93	37.4	37.4
00:50	14.17	46.9	46.9	03:50	17.17	39.2	50.8	08:38	21.97	35.2	37.7
00:55	14.25	43.9	43.9	03:55	17.25	37.4	46.3	08:40	22.00	36.6	36.6
01:00	14.33	43.5	46.7	04:00	17.33	40.0	47.9	08:42	22.03	39.3	39.3
01:05	14.42	40.8	40.8	04:05	17.42	42.2	50.9	08:45	22.08	37.0	37.0
01:10	14.50	44.8	44.8	04:10	17.50	46.7	49.5	08:48	22.13	40.5	40.5
01:15	14.58	42.2	46.0	04:15	17.58	44.8	52.9	08:50	22.17	37.9	37.9
01:20	14.67	42.3	46.5	04:20	17.67	41.2	51.2	08:52	22.20	44.1	44.1
01:25	14.75	43.5	43.5	04:25	17.75	40.0	51.8	08:54	22.23	34.5	34.5
01:30	14.83	46.0	49.7	04:30	17.83	43.1	50.1	08:56	22.27	35.5	35.5
01:32	14.87	45.6	49.0	04:35	17.92	39.3	51.9	08:58	22.30	37.4	37.4
01:34	14.90	44.5	44.5	04:40	18.00	42.2	49.0	09:00	22.33	39.3	39.3
01:36	14.93	44.1	47.7	04:45	18.08	42.5	45.6	09:02	22.37	37.4	37.4
01:38	14.97	46.5	46.5	04:50	18.17	41.4	44.5	09:04	22.40	40.3	40.3
01:40	15.00	43.1	43.1	04:55	18.25	40.5	47.7	09:06	22.43	40.3	40.3
01:42	15.03	44.8	44.8	05:00	18.33	44.9	44.9	09:08	22.47	38.7	38.7
01:45	15.08	43.1	46.6	05:05	18.42	39.8	42.0	09:10	22.50	40.5	40.5
01:48	15.13	42.2	45.6	05:10	18.50	38.4	44.5	09:12	22.53	37.6	37.6
01:50	15.17	46.0	46.0	05:15	18.58	29.6	44.1	09:15	22.58	40.0	40.0
01:52	15.20	45.7	45.7	05:20	18.67	39.3	45.1	09:20	22.67	40.3	40.3
01:54	15.23	43.1	46.6	05:25	18.75	39.5	42.7	09:25	22.75	34.5	34.5
01:56	15.27	40.4	40.4	05:30	18.83	46.9	50.8	09:30	22.83	39.6	39.6
01:58	15.30	37.4	40.4	05:35	18.92	39.8	43.4	09:35	22.92	39.6	39.6
02:00	15.33	40.5	44.1	05:40	19.00	29.8	43.5	09:40	23.00	37.9	37.9
02:02	15.37	39.2	43.1	05:45	19.08	38.4	46.0	09:45	23.08	38.7	38.7
02:04	15.40	41.3	41.3	05:50	19.17	37.9	41.2	09:50	23.17	40.5	40.5

Annex 1.22 Sequential vertical positions of Fish 11 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
18-Apr-72				18-Apr-72				18-Apr-72			
09:55	23.25	38.7	38.7	15:06	28.43	50.2	54.3	19:08	32.47	42.8	52.8
10:00	23.33	40.8	40.8	15:08	28.47	47.9	59.6	19:10	32.50	37.9	51.2
10:05	23.42	40.5	40.5	15:10	28.50	49.3	55.2	19:12	32.53	39.2	54.6
10:10	23.50	38.4	38.4	15:12	28.53	45.1	53.7	19:15	32.58	33.7	53.2
10:15	23.58	40.8	40.8	15:15	28.58	50.1	53.6	19:20	32.67	37.9	54.5
10:20	23.67	41.3	41.3	15:18	28.63	46.6	50.1	19:25	32.75	33.2	54.8
10:25	23.75	41.6	41.6	15:20	28.67	49.0	52.4	19:30	32.83	35.3	54.6
10:30	23.83	41.6	41.6	15:22	28.70	50.1	50.1	19:35	32.92	28.4	55.2
10:35	23.92	43.9	43.9	15:24	28.73	48.7	48.7	19:40	33.00	31.8	55.8
10:40	24.00	43.1	43.1	15:26	28.77	48.7	52.4	19:45	33.08	34.6	57.2
10:45	24.08	39.5	39.5	15:28	28.80	52.4	55.8	19:50	33.17	33.2	54.8
10:50	24.17	40.0	40.0	15:30	28.83	52.4	55.8	19:55	33.25	28.4	58.1
10:55	24.25	40.5	40.5	15:32	28.87	50.1	53.6	20:00	33.33	24.4	54.5
11:00	24.33	40.5	40.5	15:34	28.90	50.8	54.6	20:05	33.42	26.6	61.2
11:05	24.42	43.1	43.1	15:36	28.93	56.0	60.2	20:10	33.50	29.8	52.2
11:10	24.50	43.1	43.1	15:38	28.97	51.2	54.8	20:15	33.58	26.6	58.1
11:15	24.58	41.5	41.5	15:40	29.00	48.8	51.9	20:20	33.67	27.2	53.2
11:20	24.67	40.9	40.9	15:42	29.03	47.6	50.6	20:25	33.75	22.3	51.2
11:25	24.75	39.5	39.5	15:45	29.08	51.2	54.5	20:30	33.83	25.3	52.2
11:30	24.83	42.2	42.2	15:48	29.13	53.9	58.0	20:35	33.92	35.3	54.6
11:35	24.92	41.5	41.5	15:50	29.17	48.8	52.9	20:40	34.00	35.3	53.6
11:40	25.00	41.3	41.3	15:52	29.20	51.2	54.5	20:45	34.08	55.0	55.0
11:45	25.08	43.1	43.1	15:54	29.23	50.0	56.4	20:50	34.17	49.0	52.4
11:50	25.17	39.6	39.6	15:56	29.27	50.0	53.2	20:52	34.20	48.7	56.0
11:55	25.25	41.5	41.5	15:58	29.30	46.7	56.4	20:54	34.23	45.0	56.0
12:00	25.33	45.7	45.7	16:00	29.33	50.0	53.2	20:56	34.27	44.1	58.4
12:05	25.42	41.6	41.6	16:02	29.37	46.3	55.2	20:58	34.30	42.2	53.7
12:10	25.50	43.9	43.9	16:04	29.40	47.6	53.6	21:00	34.33	38.5	52.8
12:15	25.58	40.0	40.0	16:06	29.43	46.0	53.5	21:05	34.42	35.3	55.8
12:20	25.67	44.1	44.1	16:08	29.47	50.9	55.5	21:10	34.50	33.9	56.0
12:25	25.75	44.1	44.1	16:10	29.50	47.0	56.5	21:15	34.58	23.6	58.4
12:30	25.83	41.3	41.3	16:12	29.53	46.0	53.5	21:20	34.67	22.3	52.2
12:35	25.92	42.2	42.2	16:15	29.58	50.9	56.1	21:25	34.75	20.6	53.2
12:40	26.00	43.9	43.9	16:20	29.67	40.6	56.1	21:30	34.83	23.9	56.4
12:45	26.08	43.1	43.1	16:25	29.75	43.1	56.0	21:35	34.92	24.4	54.5
12:50	26.17	45.0	45.0	16:30	29.83	42.2	53.7	21:40	35.00	26.6	51.9
12:55	26.25	43.1	43.1	16:35	29.92	45.7	58.0	21:45	35.08	30.2	56.0
13:00	26.33	41.3	41.3	16:40	30.00	40.5	58.4	21:50	35.17	33.2	54.8
13:05	26.42	43.9	43.9	16:45	30.08	42.2	52.4	21:55	35.25	38.7	55.8
13:10	26.50	44.1	44.1	16:50	30.17	37.4	55.2	21:58	35.30	51.7	56.0
13:15	26.58	41.3	41.3	16:55	30.25	36.9	54.8	22:00	35.33	51.7	51.7
13:20	26.67	40.0	40.0	17:00	30.33	38.4	57.2	22:02	35.37	53.6	53.6
13:25	26.75	42.2	42.2	17:05	30.42	38.4	56.6	22:04	35.40	54.8	54.8
13:30	26.83	44.8	44.8	17:10	30.50	45.6	58.1	22:06	35.43	53.5	53.5
13:35	26.92	42.6	42.5	17:15	30.58	37.6	56.0	22:08	35.47	55.7	55.7
13:40	27.00	43.1	43.1	17:20	30.67	36.9	58.4	22:10	35.50	52.9	52.9
13:45	27.08	41.3	41.3	17:25	30.75	36.9	58.4	22:12	35.53	50.8	50.8
13:50	27.17	42.2	42.2	17:30	30.83	36.1	60.5	22:15	35.58	56.0	56.0
13:55	27.25	43.9	43.9	17:35	30.92	38.8	60.2	22:18	35.63	55.8	55.8
14:00	27.33	42.2	42.2	17:40	31.00	41.5	62.1	22:20	35.67	56.0	56.0
14:05	27.42	44.1	44.1	17:45	31.08	48.7	59.6	22:22	35.70	54.8	54.8
14:10	27.50	43.4	43.4	17:50	31.17	46.0	60.9	22:24	35.73	52.4	52.4
14:15	27.58	47.4	47.4	17:55	31.25	43.1	60.5	22:26	35.77	54.8	54.8
14:20	27.67	44.1	44.1	18:00	31.33	45.6	62.5	22:28	35.80	53.5	53.5
14:25	27.75	46.0	46.0	18:10	31.50	37.9	61.0	22:30	35.83	51.2	51.2
14:30	27.83	46.6	46.6	18:15	31.58	35.3	62.5	22:35	35.92	55.7	55.7
14:35	27.92	46.6	46.6	18:20	31.67	23.9	56.4	22:40	36.00	53.5	53.5
14:40	28.00	46.6	46.6	18:25	31.75	37.4	61.0	22:45	36.08	53.5	53.5
14:45	28.08	48.8	48.8	18:30	31.83	34.6	60.9	22:50	36.17	55.7	55.7
14:46	28.10	42.5	48.8	18:35	31.92	37.9	61.0	22:55	36.25	53.6	53.6
14:50	28.17	46.6	50.1	18:40	32.00	40.4	58.1	23:00	36.33	53.2	53.2
14:52	28.20	43.5	50.0	18:45	32.08	44.5	56.6				
14:54	28.23	52.4	52.4	18:50	32.17	51.2	57.7				
14:56	28.27	49.7	49.7	18:55	32.25	51.2	58.4				
14:58	28.30	47.7	51.2	19:00	32.33	46.7	56.4				
15:00	28.33	48.8	55.0	19:02	32.37	46.0	49.7				
15:02	28.37	50.0	53.2	19:04	32.40	48.7	56.0				
15:04	28.40	49.8	58.0	19:06	32.43	45.4	56.1				

Annex 1.23 Sequential geographical positions of Fish 12

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
20-Apr-72			
17:15	0.00	51.961	1.762
17:30	0.25	51.962	1.762
17:45	0.50	51.964	1.764
18:00	0.75	51.966	1.767
18:15	1.00	51.968	1.767
18:30	1.25	51.970	1.767
18:45	1.50	51.972	1.766
19:00	1.75	51.975	1.766
19:15	2.00	51.977	1.766
19:30	2.25	51.981	1.763
19:45	2.50	51.984	1.760
20:00	2.75	51.985	1.761
20:15	3.00	51.987	1.763
20:30	3.25	51.988	1.763
20:45	3.50	51.989	1.762
21:00	3.75	51.989	1.762
21:15	4.00	51.990	1.762
21:30	4.25	51.991	1.761
21:45	4.50	51.990	1.760
22:00	4.75	51.990	1.760
22:15	5.00	51.990	1.759
22:30	5.25	51.990	1.756
22:45	5.50	51.988	1.756
23:00	5.75	51.988	1.754
23:15	6.00	51.985	1.753
23:30	6.25	51.983	1.750
23:45	6.50	51.980	1.749
21-Apr-72			
00:00	6.75	51.976	1.748
00:15	7.00	51.971	1.744
00:30	7.25	51.967	1.739
00:45	7.50	51.960	1.735
01:00	7.75	51.953	1.731
01:15	8.00	51.947	1.722
01:30	8.25	51.939	1.716
01:45	8.50	51.932	1.708
02:00	8.75	51.924	1.700
02:15	9.00	51.914	1.696
02:30	9.25	51.906	1.689
02:45	9.50	51.897	1.687
03:00	9.75	51.890	1.683
03:15	10.00	51.882	1.682
03:30	10.25	51.875	1.680
03:45	10.50	51.869	1.682
04:00	10.75	51.865	1.682
04:15	11.00	51.861	1.682
04:30	11.25	51.859	1.683
05:00	11.75	51.855	1.691
05:30	12.25	51.855	1.694
05:45	12.50	51.854	1.697
06:00	12.75	51.855	1.701
06:15	13.00	51.856	1.705
06:30	13.25	51.857	1.710
06:45	13.50	51.858	1.715
07:00	13.75	51.860	1.722
07:15	14.00	51.862	1.728
07:30	14.25	51.863	1.733
07:45	14.50	51.864	1.737
08:00	14.75	51.865	1.739
08:15	15.00	51.865	1.740
08:30	15.25	51.864	1.741
08:45	15.50	51.865	1.740
09:00	15.75	51.864	1.740

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
21-Apr-72			
09:15	16.00	51.864	1.740
09:30	16.25	51.865	1.740
09:45	16.50	51.865	1.741
10:00	16.75	51.865	1.741
10:15	17.00	51.865	1.741
10:30	17.25	51.865	1.740
10:45	17.50	51.864	1.740
11:00	17.75	51.864	1.740
11:15	18.00	51.862	1.740
11:30	18.25	51.860	1.741
11:45	18.50	51.859	1.742
12:00	18.75	51.856	1.742
12:15	19.00	51.853	1.743
12:30	19.25	51.850	1.741
12:45	19.50	51.845	1.739
13:00	19.75	51.839	1.736
13:15	20.00	51.832	1.731
13:30	20.25	51.824	1.728

Annex 1.24 Sequential vertical positions of Fish 12

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
20-Apr-72				20-Apr-72				21-Apr-72			
17:15	0.00	26.9	28.7	22:30	5.25	26.3	26.3	01:50	8.58	10.3	32.2
17:20	0.08	26.0	26.0	22:32	5.28	26.6	26.5	01:55	8.67	7.6	32.5
17:25	0.17	33.3	33.3	22:34	5.32	30.2	30.2	02:00	8.75	4.0	27.7
17:30	0.25	36.9	36.9	22:36	5.35	30.7	30.7	02:05	8.83	4.0	30.1
17:35	0.33	29.1	32.2	22:38	5.38	32.0	32.0	02:10	8.92	4.0	23.9
17:40	0.42	28.0	36.0	22:40	5.42	30.6	30.6	02:15	9.00	4.0	24.9
17:45	0.50	24.5	32.6	22:42	5.45	28.3	28.3	02:20	9.08	4.0	28.4
17:50	0.58	23.9	30.4	22:45	5.50	29.2	29.2	02:25	9.17	4.0	29.7
17:55	0.67	21.4	28.4	22:48	5.55	28.0	28.0	02:30	9.25	4.0	29.1
18:00	0.75	25.9	29.1	22:50	5.58	28.4	28.4	02:35	9.33	4.0	30.2
18:10	0.92	26.6	26.6	22:52	5.62	30.2	30.2	02:40	9.42	10.8	27.8
18:15	1.00	22.8	22.8	22:54	5.65	25.9	25.9	02:42	9.45	22.3	29.6
18:20	1.08	19.4	23.2	22:56	5.68	26.6	26.5	02:44	9.48	18.3	29.0
18:25	1.17	20.0	20.0	22:58	5.72	25.3	25.3	02:45	9.50	17.3	27.2
18:30	1.25	32.6	32.6	23:00	5.75	27.2	27.2	02:48	9.55	10.3	29.1
18:35	1.33	32.0	32.0	23:02	5.78	28.0	28.0	02:50	9.58	7.5	28.4
18:40	1.42	29.0	29.0	23:04	5.82	26.7	26.7	02:52	9.62	7.6	29.0
18:45	1.50	27.8	27.8	23:06	5.85	30.1	30.1	02:54	9.65	4.0	30.4
18:50	1.58	31.1	31.1	23:08	5.88	28.0	28.0	02:56	9.68	4.0	26.5
18:55	1.67	28.4	28.4	23:10	5.92	24.4	24.4	02:58	9.72	4.0	30.4
19:00	1.75	29.0	29.0	23:12	5.95	24.9	24.9	03:00	9.75	7.3	30.4
19:05	1.83	26.0	26.0	23:15	6.00	28.6	28.6	03:02	9.78	7.1	29.1
19:10	1.92	29.6	29.6	23:18	6.05	25.4	29.0	03:04	9.82	7.3	30.4
19:15	2.00	30.2	30.2	23:20	6.08	23.9	27.2	03:06	9.85	7.8	30.2
19:20	2.08	27.2	27.2	23:22	6.12	24.4	27.8	03:08	9.88	7.9	31.4
19:25	2.17	25.9	25.9	23:24	6.15	24.9	28.4	03:10	9.92	7.8	30.8
19:30	2.25	27.0	27.0	23:26	6.18	22.3	25.3	03:12	9.95	4.0	25.3
19:35	2.33	25.6	25.6	23:28	6.22	23.9	23.9	03:15	10.00	4.0	27.2
19:40	2.42	26.3	26.3	23:30	6.25	28.6	28.6	03:18	10.05	4.0	26.5
19:45	2.50	24.7	24.7	23:32	6.28	28.6	28.6	03:20	10.08	7.2	26.5
19:50	2.58	26.0	26.0	23:34	6.32	27.0	27.0	03:22	10.12	4.0	27.8
19:55	2.67	26.0	26.0	23:36	6.35	28.0	28.0	03:24	10.15	7.3	27.2
20:00	2.75	24.4	24.4	23:38	6.38	30.1	30.1	03:26	10.18	7.2	26.5
20:05	2.83	31.4	31.4	23:40	6.42	28.0	28.0	03:28	10.22	7.5	28.4
20:10	2.92	27.2	27.2	23:42	6.45	24.9	24.9	03:30	10.25	7.5	28.4
20:15	3.00	26.5	26.5	23:45	6.50	27.0	27.0	03:32	10.28	7.7	29.6
20:20	3.08	31.2	31.2	23:48	6.55	29.1	29.1	03:34	10.32	8.1	28.6
20:25	3.17	30.8	30.8	23:50	6.58	28.0	28.0	03:36	10.35	4.0	28.6
20:30	3.25	28.3	28.3	23:52	6.62	25.4	29.6	03:38	10.38	11.5	30.2
20:35	3.33	28.4	28.4	23:54	6.65	30.1	30.1	03:40	10.42	11.3	29.6
20:40	3.42	28.0	28.0	23:56	6.68	24.1	28.0	03:42	10.45	11.3	29.6
20:45	3.50	23.2	23.2	23:58	6.72	24.4	31.1	03:45	10.50	8.3	29.6
20:50	3.58	27.0	27.0	21-Apr-72				03:48	10.55	12.2	28.6
20:55	3.67	26.3	26.3	00:00	6.75	26.0	29.6	03:50	10.58	12.4	29.1
21:00	3.75	27.5	27.5	00:05	6.83	27.0	30.8	03:52	10.62	15.8	27.5
21:05	3.83	30.2	30.2	00:10	6.92	24.1	27.0	03:54	10.65	21.4	28.4
21:10	3.92	26.3	26.3	00:15	7.00	21.8	27.7	03:56	10.68	22.3	29.6
21:15	4.00	25.4	29.0	00:20	7.08	23.5	29.0	03:58	10.72	25.4	29.0
21:20	4.08	22.3	22.3	00:25	7.17	20.7	29.0	04:00	10.75	21.0	27.8
21:25	4.17	32.0	32.0	00:30	7.25	13.9	27.2	04:02	10.78	24.9	28.4
21:30	4.25	23.5	23.5	00:35	7.33	10.3	29.1	04:04	10.82	27.5	27.5
21:35	4.33	25.8	25.8	00:40	7.42	10.1	31.4	04:06	10.85	28.6	28.6
21:40	4.42	30.1	30.1	00:45	7.50	10.3	32.2	04:08	10.88	24.5	28.6
21:45	4.50	30.2	30.1	00:50	7.58	7.1	32.2	04:10	10.92	24.1	28.0
21:50	4.58	32.2	32.2	00:55	7.67	6.8	29.0	04:12	10.95	25.4	25.4
21:55	4.67	26.7	26.7	01:00	7.75	7.2	29.7	04:15	11.00	24.5	24.5
22:00	4.75	27.2	27.2	01:05	7.83	15.5	35.5	04:18	11.05	24.9	24.9
22:05	4.83	29.3	29.3	01:10	7.92	10.1	31.4	04:20	11.08	22.7	22.7
22:10	4.92	29.1	29.1	01:15	8.00	7.1	35.3	04:22	11.12	22.3	26.0
22:15	5.00	27.0	27.0	01:20	8.08	7.1	32.2	04:24	11.15	24.7	24.7
22:20	5.08	23.3	23.3	01:25	8.17	7.0	30.6	04:26	11.18	24.3	24.3
22:22	5.12	24.9	24.9	01:30	8.25	4.0	28.4	04:28	11.22	19.6	19.6
22:24	5.15	28.6	28.6	01:35	8.33	4.0	25.9	04:30	11.25	27.0	27.0
22:26	5.18	29.1	29.1	01:40	8.42	7.1	29.1	04:35	11.33	24.1	24.0
22:28	5.22	25.9	25.9	01:45	8.50	7.2	32.9	04:40	11.42	23.4	23.4

Annex 1.24 Sequential vertical positions of Fish 12 continued

Note: Time is measured in decimal hours. Figures in *italics* denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
21-Apr-72				21-Apr-72				21-Apr-72			
05:00	11.75	23.5	23.5	08:25	15.17	31.0	31.0	12:05	18.83	28.4	35.3
05:05	11.83	27.0	27.0	08:30	15.25	29.2	29.2	12:10	18.92	21.0	34.5
05:10	11.92	25.4	25.4	08:35	15.33	30.6	30.6	12:15	19.00	24.9	37.4
05:15	12.00	27.5	27.5	08:40	15.42	31.8	31.8	12:20	19.08	33.7	37.0
05:20	12.08	25.4	25.4	08:45	15.50	28.8	28.8	12:22	19.12	29.0	36.1
05:25	12.17	23.9	27.2	08:50	15.58	29.0	29.0	12:25	19.17	30.2	37.6
05:30	12.25	24.9	29.1	08:55	15.67	27.5	27.5	12:30	19.25	23.2	34.6
05:35	12.33	27.2	27.2	09:00	15.75	29.1	29.1	12:35	19.33	21.0	34.5
05:40	12.42	23.2	27.0	09:05	15.83	26.3	26.3	12:40	19.42	13.7	32.9
05:45	12.50	21.4	28.4	09:10	15.92	25.9	25.9	12:45	19.50	14.5	31.8
05:48	12.55	22.1	28.8	09:15	16.00	32.0	32.0	12:50	19.58	9.9	30.6
05:50	12.58	27.0	29.8	09:20	16.08	27.9	27.9	12:55	19.67	7.5	28.4
05:52	12.62	25.4	29.0	09:25	16.17	27.4	27.4	13:00	19.75	4.0	33.3
05:54	12.65	26.0	29.6	09:30	16.25	29.0	29.0	13:05	19.83	4.0	28.4
05:56	12.68	24.9	28.4	09:35	16.33	29.1	29.1	13:10	19.92	6.9	29.8
05:58	12.72	22.8	29.1	09:40	16.42	27.0	27.0	13:15	20.00	6.5	29.2
06:00	12.75	23.5	29.0	09:45	16.50	29.1	29.1	13:20	20.08	10.8	31.1
06:02	12.78	22.9	25.6	09:50	16.58	29.6	29.6	13:25	20.17	6.4	29.8
06:04	12.82	20.7	26.3	09:55	16.67	27.5	27.5	13:30	20.25	11.0	31.8
06:06	12.85	21.8	27.7	10:00	16.75	29.0	29.0				
06:08	12.88	24.7	30.6	10:05	16.83	30.4	30.4				
06:10	12.92	25.6	30.9	10:10	16.92	27.8	27.8				
06:12	12.95	24.9	27.5	10:15	17.00	30.4	30.4				
06:15	13.00	21.9	29.0	10:20	17.08	29.8	29.8				
06:20	13.08	27.0	30.8	10:25	17.17	31.4	31.4				
06:25	13.17	23.9	33.7	10:30	17.25	27.2	27.2				
06:30	13.25	28.4	33.3	10:32	17.28	31.8	31.8				
06:35	13.33	22.8	32.2	10:34	17.32	29.4	29.3				
06:40	13.42	21.3	32.7	10:36	17.35	28.4	28.4				
06:45	13.50	25.9	35.3	10:38	17.38	26.0	26.0				
06:50	13.58	26.3	34.5	10:40	17.42	29.0	29.0				
07:00	13.75	28.0	36.0	10:42	17.45	27.2	27.2				
07:02	13.78	31.4	31.4	10:45	17.50	29.8	29.7				
07:04	13.82	27.0	32.7	10:48	17.55	30.4	30.4				
07:06	13.85	27.7	30.6	10:50	17.58	30.4	30.4				
07:08	13.88	27.0	29.8	10:52	17.62	31.8	31.8				
07:10	13.92	25.9	32.2	10:54	17.65	30.8	30.8				
07:12	13.95	24.4	31.1	10:56	17.68	29.6	33.2				
07:15	14.00	30.2	30.2	10:58	17.72	25.9	29.1				
07:18	14.05	26.5	30.2	11:00	17.75	29.1	32.2				
07:20	14.08	28.7	30.6	11:02	17.78	33.2	33.2				
07:22	14.12	25.7	30.0	11:04	17.82	29.1	32.2				
07:24	14.15	26.3	29.0	11:06	17.85	31.8	31.8				
07:26	14.18	26.3	31.8	11:08	17.88	24.7	27.7				
07:28	14.22	30.0	32.1	11:10	17.92	27.2	30.4				
07:30	14.25	30.1	30.0	11:12	17.95	33.5	33.5				
07:32	14.28	31.8	31.8	11:15	18.00	29.1	32.2				
07:34	14.32	27.0	29.8	11:18	18.05	29.1	32.2				
07:36	14.35	31.1	34.5	11:20	18.08	29.8	32.7				
07:38	14.38	32.9	32.9	11:22	18.12	23.9	30.4				
07:40	14.42	29.1	32.2	11:24	18.15	27.2	30.4				
07:42	14.45	30.2	33.9	11:26	18.18	24.4	31.1				
07:45	14.50	30.4	30.4	11:28	18.22	26.5	33.9				
07:48	14.55	28.8	28.8	11:30	18.25	24.9	35.3				
07:50	14.58	29.0	29.0	11:32	18.28	26.5	33.9				
07:52	14.62	30.1	30.0	11:34	18.32	27.0	30.8				
07:54	14.65	27.7	27.7	11:36	18.35	30.4	33.7				
07:56	14.68	29.1	29.1	11:38	18.38	31.8	35.3				
07:58	14.72	28.4	28.4	11:40	18.42	31.8	31.8				
08:00	14.75	27.7	27.7	11:42	18.45	35.3	35.3				
08:02	14.78	25.9	29.1	11:45	18.50	33.9	33.9				
08:04	14.82	30.2	30.2	11:48	18.55	33.3	37.4				
08:06	14.85	30.8	30.8	11:50	18.58	33.9	37.6				
08:08	14.88	32.0	32.0	11:52	18.62	30.8	38.4				
08:10	14.92	30.8	30.8	11:54	18.65	28.4	38.7				
08:12	14.95	30.6	30.6	11:56	18.68	25.9	35.3				
08:15	15.00	29.0	29.0	11:58	18.72	27.2	37.0				
08:20	15.08	31.0	31.0	12:00	18.75	23.9	37.0				

Annex 1.25 Sequential geographical positions of Fish 13

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
07-Dec-72			
19:00	0.00	52.010	1.803
19:15	0.25	52.006	1.804
19:30	0.50	52.003	1.798
19:45	0.75	51.998	1.796
20:00	1.00	51.990	1.793
20:15	1.25	51.982	1.792
20:30	1.50	51.974	1.788
20:45	1.75	51.964	1.783
21:00	2.00	51.955	1.783
21:15	2.25	51.946	1.778
21:30	2.50	51.937	1.770
21:45	2.75	51.928	1.768
22:00	3.00	51.918	1.763
22:15	3.25	51.909	1.762
22:30	3.50	51.904	1.761
22:45	3.75	51.893	1.755
23:00	4.00	51.887	1.755
23:15	4.25	51.877	1.751
23:30	4.50	51.871	1.750
23:45	4.75	51.865	1.747
08-Dec-72			
00:00	5.00	51.860	1.745
00:15	5.25	51.856	1.746
00:30	5.50	51.854	1.745
00:45	5.75	51.852	1.744
01:00	6.00	51.852	1.743
01:15	6.25	51.851	1.746
01:30	6.50	51.852	1.749
01:45	6.75	51.854	1.752
02:00	7.00	51.856	1.755
02:15	7.25	51.858	1.760
02:30	7.50	51.859	1.759
02:45	7.75	51.859	1.760
03:00	8.00	51.859	1.760
03:15	8.25	51.859	1.760
03:30	8.50	51.860	1.759
03:45	8.75	51.859	1.759
04:00	9.00	51.859	1.760
04:15	9.25	51.859	1.760
04:30	9.50	51.859	1.760
04:45	9.75	51.859	1.760
05:00	10.00	51.860	1.760
05:15	10.25	51.859	1.759
05:30	10.50	51.860	1.759
05:45	10.75	51.865	1.753
06:00	11.00	51.860	1.759
06:15	11.25	51.862	1.757
06:30	11.50	51.864	1.754
06:45	11.75	51.865	1.750
07:00	12.00	51.866	1.747
07:15	12.25	51.865	1.747
07:30	12.50	51.863	1.741
07:45	12.75	51.860	1.737
08:00	13.00	51.857	1.732
08:15	13.25	51.852	1.726
08:30	13.50	51.847	1.721
08:45	13.75	51.841	1.713
09:15	14.25	51.826	1.702
09:30	14.50	51.818	1.697
09:45	14.75	51.810	1.696
10:00	15.00	51.801	1.686
10:15	15.25	51.792	1.679
10:30	15.50	51.785	1.673

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
08-Dec-72			
10:45	15.75	51.778	1.666
11:00	16.00	51.772	1.660
11:15	16.25	51.767	1.654
11:30	16.50	51.767	1.654
11:45	16.75	51.766	1.653
12:00	17.00	51.767	1.654
12:15	17.25	51.767	1.653
12:30	17.50	51.767	1.653
12:45	17.75	51.767	1.653
13:00	18.00	51.767	1.653
13:15	18.25	51.767	1.653
13:30	18.50	51.767	1.654
13:45	18.75	51.767	1.653
14:00	19.00	51.767	1.653
14:15	19.25	51.767	1.653
14:30	19.50	51.767	1.653
14:45	19.75	51.767	1.653
15:00	20.00	51.767	1.653
15:15	20.25	51.767	1.653
15:30	20.50	51.767	1.653
15:45	20.75	51.767	1.653
16:00	21.00	51.767	1.654
16:15	21.25	51.767	1.654
16:30	21.50	51.767	1.653
16:45	21.75	51.767	1.654
17:00	22.00	51.767	1.654
17:15	22.25	51.767	1.653
17:30	22.50	51.767	1.653
17:45	22.75	51.767	1.654
18:00	23.00	51.767	1.654
18:15	23.25	51.767	1.655
18:30	23.50	51.766	1.654
18:45	23.75	51.767	1.654
19:00	24.00	51.767	1.653
19:15	24.25	51.767	1.654
19:45	24.75	51.758	1.645
20:00	25.00	51.756	1.637
20:15	25.25	51.752	1.638
20:30	25.50	51.753	1.640
20:45	25.75	51.754	1.639
21:00	26.00	51.753	1.640

Annex 1.26 Sequential vertical positions of Fish 13

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
07-Dec-72				08-Dec-72				08-Dec-72			
18:50	0.00	21.4	21.4	00:15	5.42	17.4	38.0	05:35	10.75	36.9	36.9
18:55	0.08	20.6	27.2	00:20	5.50	18.4	38.3	05:40	10.83	35.5	35.5
19:00	0.17	23.2	23.2	00:25	5.58	16.2	37.4	05:50	11.00	31.9	31.9
19:05	0.25	20.5	25.1	00:30	5.67	17.3	37.0	05:55	11.08	35.3	35.3
19:10	0.33	17.6	24.4	00:35	5.75	16.9	39.3	06:00	11.17	33.5	33.5
19:15	0.42	24.9	24.9	00:40	5.83	14.5	32.6	06:05	11.25	33.7	33.7
19:25	0.58	22.8	29.1	00:45	5.92	14.2	34.5	06:10	11.33	27.2	30.4
19:30	0.67	24.4	31.1	00:50	6.00	16.0	36.0	06:15	11.42	29.4	31.2
19:35	0.75	21.1	28.3	00:55	6.08	11.3	35.5	06:20	11.50	27.2	30.4
19:40	0.83	21.4	31.8	01:00	6.17	15.3	35.4	06:25	11.58	29.8	36.1
19:45	0.92	15.0	29.6	01:05	6.25	14.8	33.6	06:30	11.67	33.6	36.2
19:50	1.00	16.6	33.2	01:10	6.33	13.4	32.2	06:35	11.75	33.5	36.4
19:55	1.08	15.9	30.6	01:15	6.42	18.7	36.9	06:40	11.83	35.3	35.3
20:00	1.17	16.6	29.1	01:20	6.50	21.7	34.1	06:45	11.92	35.3	35.3
20:05	1.25	14.5	31.8	01:25	6.58	27.4	34.4	06:50	12.00	32.2	35.3
20:10	1.33	17.1	30.0	01:30	6.67	29.8	35.5	06:55	12.08	32.2	35.3
20:15	1.42	19.7	29.1	01:35	6.75	32.0	40.0	07:00	12.17	31.8	31.8
20:20	1.50	15.5	30.8	01:40	6.83	27.7	36.4	07:05	12.25	29.8	32.9
20:25	1.58	14.5	27.5	01:45	6.92	25.3	37.4	07:10	12.33	29.0	29.0
20:30	1.67	16.0	32.0	01:50	7.00	24.7	36.4	07:15	12.42	26.6	32.9
20:35	1.75	12.9	30.6	01:55	7.08	21.8	33.5	07:20	12.50	23.5	29.0
20:40	1.83	11.9	32.6	02:00	7.17	22.3	34.4	07:25	12.58	34.5	34.5
20:45	1.92	13.9	33.7	02:05	7.25	24.9	35.2	07:30	12.67	27.5	30.0
20:50	2.00	12.4	34.5	02:10	7.33	33.7	37.0	07:35	12.75	30.6	30.6
20:55	2.08	16.2	33.1	02:12	7.37	37.9	37.9	07:40	12.83	26.6	31.0
21:00	2.17	13.9	30.4	02:15	7.42	36.9	40.5	07:45	12.92	31.8	35.3
21:05	2.25	11.1	32.1	02:20	7.50	37.9	37.9	07:55	13.08	25.9	33.1
21:10	2.33	13.9	33.7	02:25	7.58	38.4	38.3	08:00	13.17	22.8	32.2
21:15	2.42	10.6	33.7	02:30	7.67	37.7	37.7	08:05	13.25	18.6	30.7
21:20	2.50	10.3	32.2	02:35	7.75	36.4	36.4	08:10	13.33	19.7	30.0
21:25	2.58	12.4	34.5	02:40	7.83	36.6	36.6	08:15	13.42	26.0	33.2
21:30	2.67	9.6	31.8	02:45	7.92	36.9	36.9	08:20	13.50	26.0	33.2
21:35	2.75	12.6	32.7	02:50	8.00	36.9	36.9	08:25	13.58	22.3	33.2
21:40	2.83	7.5	21.4	02:55	8.08	37.9	37.9	08:30	13.67	27.0	34.6
21:45	2.92	12.1	30.9	03:00	8.17	34.5	34.5	08:35	13.75	21.8	33.5
21:50	3.00	14.2	31.1	03:05	8.25	34.5	34.5	08:40	13.83	20.7	31.8
21:55	3.08	16.2	31.4	03:10	8.33	34.4	34.4	08:45	13.92	18.0	31.8
22:00	3.17	15.2	31.8	03:15	8.42	38.3	38.3	08:50	14.00	21.8	33.5
22:05	3.25	14.5	30.0	03:20	8.50	36.4	36.4	08:55	14.08	22.3	32.6
22:10	3.33	16.6	29.1	03:25	8.58	38.3	38.3	09:00	14.17	21.7	31.7
22:15	3.42	17.6	31.1	03:30	8.67	37.3	37.3	09:05	14.25	16.6	29.1
22:20	3.50	19.7	29.1	03:35	8.75	36.2	36.2	09:10	14.33	19.4	34.6
22:25	3.58	19.7	29.1	03:40	8.83	37.7	37.7	09:15	14.42	21.3	32.7
22:30	3.67	16.6	32.2	03:45	8.92	36.2	36.2	09:20	14.50	23.9	33.7
22:35	3.75	12.4	26.3	03:50	9.00	37.7	37.6	09:25	14.58	15.9	30.6
22:40	3.83	20.2	28.2	03:55	9.08	35.3	35.3	09:30	14.67	20.6	30.4
22:45	3.92	16.6	29.1	04:00	9.17	36.7	36.7	09:35	14.75	17.9	31.8
22:50	4.00	18.3	29.0	04:05	9.25	36.4	36.4	09:40	14.83	18.0	28.4
22:55	4.08	12.6	27.0	04:10	9.33	34.5	34.5	09:45	14.92	18.8	30.6
23:00	4.17	14.5	27.5	04:15	9.42	34.4	34.4	09:50	15.00	21.8	30.6
23:05	4.25	9.8	29.8	04:20	9.50	35.2	35.2	09:55	15.08	33.5	39.3
23:10	4.33	12.9	30.6	04:25	9.58	36.2	36.2	10:00	15.17	18.7	29.6
23:15	4.42	16.9	29.7	04:30	9.67	34.2	34.1	10:05	15.25	22.3	30.0
23:20	4.50	20.6	30.4	04:35	9.75	28.4	28.4	10:10	15.33	21.4	28.4
23:25	4.58	15.5	29.8	04:40	9.83	36.9	36.9	10:15	15.42	18.8	27.7
23:30	4.67	16.6	32.2	04:45	9.92	36.9	36.9	10:20	15.50	21.2	26.9
23:35	4.75	12.4	29.0	04:50	10.00	33.7	33.7	10:25	15.58	27.7	33.5
23:40	4.83	12.9	36.4	04:55	10.08	36.1	36.1	10:30	15.67	19.8	31.0
23:45	4.92	15.5	34.6	05:00	10.17	37.6	37.6	10:35	15.75	18.7	29.6
23:50	5.00	16.2	34.4	05:05	10.25	37.6	37.6	10:40	15.83	20.2	30.9
23:55	5.08	17.9	37.3	05:10	10.33	35.3	35.3	10:45	15.92	20.7	29.0
08-Dec-72				05:15	10.42	36.1	36.1	10:50	16.00	22.3	28.4
00:00	5.17	18.0	38.7	05:20	10.50	35.2	35.2	10:55	16.08	24.7	27.7
00:05	5.25	19.0	41.3	05:25	10.58	36.9	36.9	11:00	16.17	17.6	31.1
00:10	5.33	11.9	35.3	05:30	10.67	32.6	32.6	11:05	16.25	21.8	27.7

Annex 1.26 Sequential vertical positions of Fish 13 continued:

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
08-Dec-72				08-Dec-72				08-Dec-72			
11:10	16.33	18.1	27.4	16:50	22.00	24.7	24.7	19:55	25.08	13.8	21.1
11:15	16.42	24.7	27.7	16:55	22.08	23.5	23.5	20:00	25.17	20.7	20.7
11:20	16.50	23.4	23.4	17:00	22.17	27.2	27.2	20:10	25.33	18.6	18.6
11:25	16.58	22.8	22.8	17:05	22.25	23.5	23.5	20:15	25.42	20.7	20.7
11:30	16.67	27.0	27.0	17:10	22.33	24.3	24.3	20:20	25.50	17.9	17.9
11:35	16.75	24.8	24.8	17:15	22.42	27.2	27.2	20:25	25.58	20.7	20.7
11:40	16.83	20.7	20.7	17:20	22.50	23.5	23.5	20:30	25.67	19.2	19.2
11:45	16.92	26.9	26.9	17:25	22.58	26.3	26.3	20:35	25.75	19.2	19.2
11:50	17.00	25.9	25.9	17:30	22.67	26.7	26.7	20:40	25.83	22.3	22.3
11:55	17.08	25.6	25.6	17:35	22.75	22.8	22.8	20:45	25.92	18.8	18.8
12:00	17.17	26.3	26.3	17:40	22.83	23.5	23.5	20:50	26.00	21.0	21.0
12:05	17.25	28.4	28.4	17:45	22.92	30.2	30.1	20:55	26.08	20.5	20.5
12:10	17.33	25.3	25.3	17:50	23.00	21.8	21.8	21:00	26.17	11.9	11.9
12:15	17.42	23.9	23.9	17:55	23.08	22.8	22.8				
12:20	17.50	23.9	23.9	18:00	23.17	24.7	24.7				
12:25	17.58	25.9	25.9	18:02	23.20	22.7	22.7				
12:30	17.67	26.3	26.3	18:04	23.23	20.7	20.7				
12:35	17.75	26.6	26.5	18:06	23.27	21.3	21.2				
12:40	17.83	26.3	26.3	18:08	23.30	23.5	23.5				
12:45	17.92	27.5	27.5	18:10	23.33	22.8	22.8				
12:50	18.00	24.9	24.9	18:12	23.37	24.9	24.9				
12:55	18.08	28.4	28.4	18:14	23.40	25.3	25.3				
13:00	18.17	27.7	27.7	18:16	23.43	24.7	24.7				
13:05	18.25	24.2	24.2	18:18	23.47	23.5	23.5				
13:10	18.33	27.0	27.0	18:20	23.50	24.1	24.1				
13:15	18.42	27.0	27.0	18:22	23.53	24.7	24.7				
13:20	18.50	25.9	25.9	18:24	23.57	24.9	24.9				
13:25	18.58	29.1	29.1	18:26	23.60	24.3	24.3				
13:30	18.67	25.9	25.9	18:28	23.63	22.8	22.8				
13:35	18.75	29.0	29.0	18:30	23.67	24.2	24.2				
13:40	18.83	27.2	27.2	18:32	23.70	24.9	24.9				
13:45	18.92	27.8	27.8	18:34	23.73	25.1	25.1				
13:50	19.00	27.2	27.2	18:36	23.77	25.0	25.0				
13:55	19.08	25.9	25.9	18:38	23.80	23.8	23.8				
14:00	19.17	25.9	25.9	18:40	23.83	22.0	22.0				
14:05	19.25	26.7	26.7	18:42	23.87	22.8	22.8				
14:10	19.33	26.6	26.5	18:44	23.90	25.1	25.1				
14:15	19.42	25.9	25.9	18:46	23.93	22.2	22.2				
14:20	19.50	24.3	24.3	18:48	23.97	22.8	22.8				
14:25	19.58	25.9	25.9	18:50	24.00	23.5	23.5				
14:30	19.67	24.8	24.8	18:52	24.03	24.8	24.8				
14:35	19.75	24.7	24.7	18:54	24.07	21.2	21.2				
14:40	19.83	25.3	25.3	18:56	24.10	23.5	23.5				
14:45	19.92	25.9	25.9	18:58	24.13	24.8	24.8				
14:50	20.00	27.7	27.7	19:00	24.17	23.8	23.8				
14:55	20.08	24.7	24.7	19:02	24.20	22.2	22.2				
15:00	20.17	25.9	25.9	19:04	24.23	21.4	21.4				
15:05	20.25	25.4	25.4	19:06	24.27	23.5	23.5				
15:10	20.33	27.0	27.0	19:08	24.30	22.3	22.3				
15:15	20.42	26.7	26.7	19:10	24.33	24.1	24.1				
15:20	20.50	26.6	26.5	19:12	24.37	23.5	23.5				
15:25	20.58	25.6	25.6	19:14	24.40	23.5	23.5				
15:30	20.67	27.2	27.2	19:16	24.43	21.8	21.8				
15:35	20.75	24.7	24.7	19:18	24.47	23.9	23.9				
15:40	20.83	24.2	24.2	19:20	24.50	24.9	24.9				
15:45	20.92	23.9	23.9	19:22	24.53	21.2	23.1				
15:50	21.00	25.3	25.3	19:24	24.57	20.5	20.5				
15:55	21.08	23.9	23.9	19:26	24.60	19.7	22.3				
16:00	21.17	26.6	26.5	19:30	24.67	20.6	23.9				
16:05	21.25	25.9	25.9	19:32	24.70	17.9	20.7				
16:10	21.33	25.6	25.6	19:34	24.73	19.3	22.3				
16:15	21.42	24.9	24.9	19:36	24.77	20.6	23.9				
16:20	21.50	25.9	25.9	19:38	24.80	19.7	25.9				
16:25	21.58	23.5	23.5	19:40	24.83	19.7	24.9				
16:30	21.67	22.3	22.3	19:42	24.87	17.6	24.4				
16:35	21.75	23.9	23.9	19:44	24.90	18.4	24.1				
16:40	21.83	24.9	24.9	19:46	24.93	16.6	21.7				
16:45	21.92	25.9	25.9	19:50	25.00	18.8	24.7				

Annex 1.27 Sequential geographical positions of Fish 14

Note: Time, Latitude and Longitude are given as decimal measurements.

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
09-Dec-72			
10:00	0.00	52.273	1.734
10:15	0.25	52.269	1.732
10:30	0.50	52.265	1.730
10:45	0.75	52.261	1.730
11:00	1.00	52.257	1.730
11:15	1.25	52.254	1.728
11:30	1.50	52.251	1.726
11:45	1.75	52.248	1.723
12:00	2.00	52.245	1.722
12:15	2.25	52.243	1.720
12:30	2.50	52.239	1.716
12:45	2.75	52.237	1.715
13:00	3.00	52.234	1.715
13:15	3.25	52.233	1.714
13:30	3.50	52.233	1.713
13:45	3.75	52.234	1.716
14:00	4.00	52.236	1.717
14:15	4.25	52.239	1.719
14:30	4.50	52.243	1.724
14:45	4.75	52.249	1.727
15:00	5.00	52.253	1.731
15:15	5.25	52.258	1.732
15:30	5.50	52.263	1.735
15:45	5.75	52.270	1.742
16:00	6.00	52.276	1.745
16:15	6.25	52.282	1.750
16:30	6.50	52.288	1.754
16:45	6.75	52.295	1.763
17:00	7.00	52.300	1.765
17:15	7.25	52.306	1.771
17:30	7.50	52.312	1.771
17:45	7.75	52.317	1.783
18:00	8.00	52.322	1.782
18:15	8.25	52.326	1.785
18:30	8.50	52.331	1.788
18:45	8.75	52.333	1.789
19:00	9.00	52.337	1.787
19:15	9.25	52.339	1.786
19:30	9.50	52.336	1.778
19:45	9.75	52.341	1.787
20:00	10.00	52.340	1.789
20:15	10.25	52.339	1.785
20:30	10.50	52.338	1.784
20:45	10.75	52.337	1.784
21:00	11.00	52.337	1.783
21:30	11.50	52.337	1.784
21:45	11.75	52.335	1.785
22:00	12.00	52.335	1.783
22:15	12.25	52.336	1.782
22:30	12.50	52.335	1.785
22:45	12.75	52.335	1.785
23:00	13.00	52.335	1.784
23:15	13.25	52.335	1.785
23:30	13.50	52.335	1.786
23:45	13.75	52.335	1.786
10-Dec-72			
00:00	14.00	52.335	1.786
00:15	14.25	52.335	1.788
00:30	14.50	52.335	1.786
00:45	14.75	52.335	1.788
01:00	15.00	52.335	1.786
01:15	15.25	52.336	1.787
01:30	15.50	52.338	1.784

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
10-Dec-72			
01:45	15.75	52.341	1.791
02:00	16.00	52.345	1.790
02:15	16.25	52.350	1.790
02:30	16.50	52.356	1.798
02:45	16.75	52.363	1.801
03:00	17.00	52.371	1.808
03:15	17.25	52.379	1.811
03:30	17.50	52.385	1.812
03:45	17.75	52.393	1.815
04:00	18.00	52.404	1.832
04:15	18.25	52.411	1.827
04:30	18.50	52.421	1.833
04:45	18.75	52.429	1.836
05:00	19.00	52.438	1.841
05:15	19.25	52.448	1.857
05:30	19.50	52.451	1.858
05:45	19.75	52.450	1.857
06:00	20.00	52.450	1.855
06:15	20.25	52.450	1.850
06:30	20.50	52.450	1.853

Annex 1.28 Sequential vertical positions of Fish 14

Note: Time is measured in decimal hours. Figures in italics denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
09-Dec-72				09-Dec-72				09-Dec-72			
09:50	0.00	19.6	19.6	14:35	4.75	15.2	23.5	17:55	8.08	24.7	24.7
09:55	0.08	22.3	22.3	14:40	4.83	18.6	23.5	18:00	8.17	23.1	23.1
10:00	0.17	18.6	18.6	14:45	4.92	19.2	21.7	18:05	8.25	24.2	26.7
10:05	0.25	20.6	20.6	14:47	4.95	21.1	23.5	18:10	8.33	20.2	25.6
10:10	0.33	19.7	19.7	14:49	4.98	20.2	22.9	18:15	8.42	18.6	23.5
10:15	0.42	19.8	19.8	14:51	5.02	21.3	24.1	18:20	8.50	18.8	24.7
10:20	0.50	21.8	21.8	14:53	5.05	21.3	24.1	18:25	8.58	17.1	22.3
10:25	0.58	20.2	20.2	14:55	5.08	25.9	25.9	18:30	8.67	15.8	22.8
10:30	0.67	21.8	21.8	14:57	5.12	23.5	23.5	18:35	8.75	21.3	24.1
10:35	0.75	22.3	22.3	14:59	5.15	24.7	24.7	18:40	8.83	19.7	22.3
10:40	0.83	22.3	22.3	15:00	5.17	22.9	22.9	18:45	8.92	20.7	23.5
10:45	0.92	18.1	18.1	15:02	5.20	22.3	22.3	18:50	9.00	21.3	24.1
10:50	1.00	19.2	21.7	15:05	5.25	21.1	23.5	18:55	9.08	20.2	22.9
10:55	1.08	21.8	21.8	15:06	5.27	24.9	24.9	19:00	9.17	21.8	24.7
11:00	1.17	21.1	21.1	15:08	5.30	23.5	23.5	19:05	9.25	22.3	22.3
11:05	1.25	21.3	21.2	15:10	5.33	21.1	21.1	19:10	9.33	19.7	22.3
11:10	1.33	21.3	21.2	15:12	5.37	22.9	22.9	19:15	9.42	20.2	22.9
11:15	1.42	22.3	22.3	15:14	5.40	24.7	24.7	19:20	9.50	19.7	24.9
11:20	1.50	22.3	22.3	15:16	5.43	23.5	23.5	19:25	9.58	20.7	23.5
11:25	1.58	21.8	21.8	15:18	5.47	21.7	21.7	19:30	9.67	22.9	25.6
11:30	1.67	21.7	21.7	15:20	5.50	22.8	22.8	19:35	9.75	22.3	22.3
11:35	1.75	20.7	20.7	15:22	5.53	22.3	22.3	19:40	9.83	19.7	22.3
11:40	1.83	21.3	21.2	15:24	5.57	21.7	21.7	19:42	9.87	19.7	21.7
11:45	1.92	22.8	22.8	15:26	5.60	22.3	22.3	19:44	9.90	21.8	21.8
11:50	2.00	20.7	20.7	15:28	5.63	22.3	22.3	19:46	9.93	22.3	22.3
11:55	2.08	21.8	21.8	15:30	5.67	22.8	22.8	19:48	9.97	21.7	21.7
12:00	2.17	22.9	22.9	15:32	5.70	22.3	22.3	19:50	10.00	21.7	21.7
12:05	2.25	20.7	20.7	15:34	5.73	19.2	21.7	19:52	10.03	21.4	21.4
12:10	2.33	20.7	20.7	15:36	5.77	21.3	21.2	19:54	10.07	21.4	21.4
12:15	2.42	20.7	20.7	15:38	5.80	20.6	23.9	19:56	10.10	19.2	21.4
12:20	2.50	21.8	21.8	15:40	5.83	21.8	24.7	19:58	10.13	22.3	22.3
12:25	2.58	22.8	22.8	15:42	5.87	19.2	24.2	20:00	10.17	21.8	24.7
12:30	2.67	18.6	20.7	15:44	5.90	20.2	22.9	20:02	10.20	22.8	22.8
12:35	2.75	19.2	21.4	15:45	5.92	22.8	25.9	20:04	10.23	21.1	23.5
12:40	2.83	22.8	22.8	15:46	5.93	22.3	25.3	20:06	10.27	21.4	21.4
12:45	2.92	21.0	21.0	15:48	5.97	24.7	24.7	20:08	10.30	19.2	21.4
12:50	3.00	20.0	20.0	15:50	6.00	25.3	25.3	20:10	10.33	20.5	20.5
12:55	3.08	19.7	19.7	15:52	6.03	24.7	24.7	20:12	10.37	22.8	22.8
13:00	3.17	20.2	20.2	15:54	6.07	21.1	23.5	20:14	10.40	24.2	24.2
13:05	3.25	16.2	19.3	15:56	6.10	20.5	20.5	20:16	10.43	23.1	23.1
13:08	3.30	16.5	20.7	15:58	6.13	20.7	23.5	20:18	10.47	21.2	21.2
13:10	3.33	17.6	19.8	16:00	6.17	25.9	25.9	20:20	10.50	21.4	21.4
13:12	3.37	15.5	18.4	16:05	6.25	24.1	24.1	20:22	10.53	22.9	22.9
13:14	3.40	14.2	21.0	16:10	6.33	22.9	25.6	20:24	10.57	22.1	22.1
13:16	3.43	16.6	22.8	16:15	6.42	17.9	20.7	20:26	10.60	22.1	22.1
13:18	3.47	17.1	22.3	16:20	6.50	18.6	21.1	20:28	10.63	21.2	21.2
13:20	3.50	16.2	21.1	16:25	6.58	19.7	19.7	20:30	10.67	20.7	20.7
13:22	3.53	15.2	20.7	16:30	6.67	18.6	21.1	20:32	10.70	18.1	18.1
13:24	3.57	15.5	21.2	16:35	6.75	17.6	22.1	20:34	10.73	19.8	19.8
13:26	3.60	15.3	22.1	16:40	6.83	16.2	21.1	20:36	10.77	19.8	19.8
13:28	3.63	14.5	20.7	16:45	6.92	14.8	22.9	20:38	10.80	18.1	18.1
13:30	3.67	11.3	18.6	16:50	7.00	13.1	24.3	20:40	10.83	15.2	15.2
13:32	3.70	15.9	24.7	16:55	7.08	17.9	23.5	20:42	10.87	22.3	22.3
13:35	3.75	14.8	22.9	17:00	7.17	20.1	26.5	20:45	10.92	22.3	22.3
13:40	3.83	13.4	22.8	17:05	7.25	21.0	24.4	20:50	11.00	18.1	18.1
13:45	3.92	14.0	22.0	17:07	7.28	24.4	24.4	20:55	11.08	15.9	15.9
13:50	4.00	16.2	22.3	17:10	7.33	24.4	24.4	21:00	11.17	21.8	21.8
13:55	4.08	16.2	21.1	17:15	7.42	22.8	25.1	21:05	11.25	21.7	21.7
14:00	4.17	10.8	14.2	17:20	7.50	22.8	25.9	21:10	11.33	24.1	24.1
14:05	4.25	15.8	20.5	17:25	7.58	21.9	25.4	21:25	11.58	18.6	18.6
14:10	4.33	15.2	20.7	17:30	7.67	23.5	23.5	21:30	11.67	22.1	22.1
14:15	4.42	15.8	22.8	17:35	7.75	19.8	24.3	21:35	11.75	23.6	23.6
14:20	4.50	18.3	25.4	17:40	7.83	22.1	24.3	21:40	11.83	24.1	24.1
14:25	4.58	14.9	21.4	17:45	7.92	24.7	24.7	21:45	11.92	18.6	18.6
14:30	4.67	13.4	19.7	17:50	8.00	22.9	22.9	21:50	12.00	24.8	24.8

Annex 1.28 Sequential vertical positions of Fish 14 continued:

Note: Time is measured in decimal hours. Figures in *italics* denote periods when the fish was JOB.

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
09-Dec-72				10-Dec-72			
21:55	12.08	22.8	22.8	02:35	16.75	15.8	25.1
22:00	12.17	24.3	24.3	02:40	16.83	17.1	24.9
22:05	12.25	22.2	22.2	02:45	16.92	13.1	22.1
22:10	12.33	21.7	21.7	02:50	17.00	15.3	24.3
22:15	12.42	22.3	22.3	02:55	17.08	16.2	23.5
22:20	12.50	21.1	21.1	03:00	17.17	17.5	22.9
22:25	12.58	23.1	23.1	03:05	17.25	17.1	24.9
22:30	12.67	24.0	24.0	03:10	17.33	18.6	23.5
22:35	12.75	21.2	21.2	03:15	17.42	19.2	26.7
22:40	12.83	24.9	24.9	03:20	17.50	16.2	25.9
22:45	12.92	23.1	23.1	03:25	17.58	18.1	25.1
22:50	13.00	20.7	20.7	03:30	17.67	16.0	24.0
22:55	13.08	26.7	26.7	03:35	17.75	14.9	23.6
23:00	13.17	21.1	21.1	03:40	17.83	17.9	26.3
23:05	13.25	25.0	25.0	03:45	17.92	14.8	25.6
23:10	13.33	27.0	27.0	03:50	18.00	15.2	23.5
23:15	13.42	22.0	22.0	03:55	18.08	11.3	23.5
23:20	13.50	26.6	26.6	04:00	18.17	9.1	24.2
23:25	13.58	26.7	26.7	04:05	18.25	12.1	28.2
23:30	13.67	22.9	22.9	04:10	18.33	13.1	24.3
23:35	13.75	24.3	24.3	04:15	18.42	8.5	26.6
23:40	13.83	23.6	23.6	04:20	18.50	8.4	25.7
23:45	13.92	22.3	22.3	04:25	18.58	6.4	25.9
23:50	14.00	24.2	24.2	04:30	18.67	4.0	25.1
23:55	14.08	22.8	22.8	04:35	18.75	9.1	19.2
10-Dec-72				04:40	18.83	4.0	24.5
00:00	14.17	19.7	19.7	04:45	18.92	4.0	24.9
00:05	14.25	25.9	25.9	04:50	19.00	9.1	24.2
00:10	14.33	23.6	23.6	04:55	19.08	6.3	26.6
00:15	14.42	22.8	22.8	05:00	19.17	4.0	20.1
00:25	14.58	25.0	25.0	05:05	19.25	5.8	27.6
00:30	14.67	23.1	23.1	05:10	19.33	9.4	28.2
00:40	14.83	22.9	22.9	05:15	19.42	21.1	28.3
00:45	14.92	22.7	22.7	05:20	19.50	25.1	29.8
00:50	15.00	22.2	22.2	05:21	19.52	29.8	29.8
00:55	15.08	19.3	21.2	05:25	19.58	30.7	30.7
00:57	15.12	21.4	21.4	05:26	19.60	30.0	30.0
00:59	15.15	20.5	22.8	05:28	19.63	31.0	31.0
01:00	15.17	18.1	20.5	05:30	19.67	32.6	32.6
01:01	15.18	18.1	20.5	05:32	19.70	31.8	31.8
01:03	15.22	18.1	20.5	05:34	19.73	30.9	30.9
01:05	15.25	16.2	18.6	05:36	19.77	29.8	29.8
01:07	15.28	17.6	19.8	05:38	19.80	30.9	30.9
01:09	15.32	20.5	22.1	05:40	19.83	30.1	30.0
01:11	15.35	22.2	24.0	05:42	19.87	31.7	31.7
01:13	15.38	23.1	25.0	05:44	19.90	30.1	30.0
01:15	15.42	25.7	27.9	05:46	19.93	31.7	31.7
01:17	15.45	22.9	25.6	05:48	19.97	31.7	31.7
01:19	15.48	23.5	25.9	05:50	20.00	30.7	30.7
01:21	15.52	21.7	24.2	05:55	20.08	31.7	31.7
01:23	15.55	21.7	24.2	06:00	20.17	30.1	30.0
01:25	15.58	22.1	24.3	06:05	20.25	31.8	31.8
01:27	15.62	21.1	25.9	06:10	20.33	30.9	30.9
01:29	15.65	20.7	26.3	06:15	20.42	30.7	30.7
01:30	15.67	21.1	25.9	06:20	20.50	30.7	30.7
01:33	15.72	18.1	25.1	06:25	20.58	30.7	30.7
01:35	15.75	17.1	24.9	06:30	20.67	28.8	28.8
01:40	15.83	15.5	24.1	06:35	20.75	31.0	31.0
01:45	15.92	11.1	22.8	06:40	20.83	29.0	28.9
01:50	16.00	13.8	23.5				
01:55	16.08	11.6	24.2				
02:00	16.17	13.1	22.1				
02:05	16.25	14.5	22.3				
02:10	16.33	11.9	24.9				
02:15	16.42	17.1	24.9				
02:20	16.50	15.3	22.1				
02:25	16.58	16.2	25.9				
02:30	16.67	14.5	22.8				