

# Open sea fish tracks: plaice fitted with compass tags

A.A. Buckley



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## SUMMARY

Since the early 1970s, scientists at the Ministry of Agriculture, Fisheries and Food (MAFF), Directorate of Fisheries Research (DFR), Lowestoft, 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fish tracks have appeared in scientific journals, much of the basic information has, by virtue of its bulk, remained unpublished.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 laboratory Data Reports, of which this is the first. 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 Section 1).

### 1. INTRODUCTION

The aim of this study was to observe the orientation of plaice in the southern North Sea in relation to tidal streams using acoustic tags which telemetered the compass heading of the fish. The data were collected during *RV CLIONE* cruises 6/79, 7/80, (SIC<sup>1</sup>: F.R.Harden Jones) and cruise 8/80 (SIC: G.P.Arnold). The compass data obtained, and the analysis of the results have been presented elsewhere (Harden Jones, 1981; Harden Jones and Arnold, 1982; Harden Jones, 1984; Arnold and Metcalfe, 1989; Arnold *et al.*, 1990; Metcalfe *et al.*, 1993).

### 2. MATERIALS AND METHODS

#### 2.1 The fish

Fish 1 and 2 were caught by a light otter trawl operated from *RV TELLINA* at Smiths Knoll on 23 March 1979, and Fish 3, 4, 5, 6 and 7 were caught by *RV CLIONE* during cruise 12/79. The plaice were subsequently 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

Fish were fitted with 300 kHz acoustic transponding compass tags, (Mitson *et al.*, 1982), and were tracked from *RV CLIONE* using the MAFF scanner (Holley *et al.*, 1975). The compass tag, which has been described in detail by Pearson and Storeton West (1987), consisted of a magnet attached to a disk with a 45° segment removed from its outer edge. The disk was mounted horizontally on a jewelled pivot and direction was sensed optically using a vertical array of eight infra-red emitters and detectors to identify the bearing of the missing segment. In this way the heading of the fish could be assigned to one of eight, nominally 45° sectors (mean 45°, sd ± 10°; range 28° - 63°). The sector was indicated by the time interval between two, 3 ms, pulses of sound emitted by the tag when it was insonified by the sonar. This interval ranged from 24 to 66 ms in 6 ms steps. The first pulse provided an unambiguous reference signal on the sonar screen for determining the position or depth of the fish (Greer Walker *et al.*, 1978). The two pulses were monitored on the B-scan display of the sonar and simultaneously recorded at a frequency of 1 Hz on an Alden paper recorder. The tag was attached to the fish by two conventional Petersen tag wires and a wedge shaped support kept the compass horizontal. 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.

<sup>1</sup>SIC : Scientist in Charge

The horizontal and vertical positions of the fish were recorded routinely every 15 minutes (Harden Jones *et al.*, 1973; Greer Walker *et al.*, 1978) or 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 seabed 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

$\theta$  - angle of tilt of the transducer from the horizontal

*d* - the depth of the transducer below the sea surface (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 seabed. For fish close to the seabed, position was recorded as *just off the bottom* when the acoustic tag signal was clearly separated from the echo of the seabed, 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).

### 2.3 Method of release

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

### 2.4 Astronomical and tidal stream data

Predicted tidal stream data were obtained from the nearest tidal station on the appropriate British Admiralty chart. Times of high water at Dover, or at another standard port as indicated, were taken from Volume 2 of the Admiralty Tide Tables for the relevant year. Times of local slack water were estimated by interpolating the corresponding minimum speeds of the tidal stream from the data given for each Admiralty tidal station; an interval of 10 minutes was used for the interpolation. Times of sunrise (SR) and sunset (SS) were taken from the Nautical Almanac for the nearest tabular latitude and corrected for the latitude and longitude of a point approximating to the mid-point of each track.

### 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. Table 2 gives astronomical and tidal stream data, and details of times of sunset and sunrise during each track, together with times of local slack water, the direction of the ensuing tidal stream and the Admiralty tidal station from which the data were derived.

Subsequently, two figures for each fish 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.

These figures are followed by an annex of data, which gives for each fish:

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 seabed 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 were recorded separately, and usually recording commenced shortly after the fish was released, consequently the time of release, the time of first horizontal record and the time of first vertical record differ slightly. The start time on each ground track figure refers to the time of the first horizontal record.*

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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	23-Mar-79 IVc 12*	39.5	31-May-79 1730 IVc 11*	RV Clione Cruise 06/79	E60-0186	32.8	2-Jun-79 0230 IVb 12* (Fish abandoned)
2	23-Mar-79 IVc 12*	37	3-Jun-79 1733 IVc 11*	RV Clione Cruise 06/79	E60-0187	54.3	6-Jun-79 2400 IVc 12* (Fish abandoned)
3	12-Dec-79 IVc*	-	23-May-80 1654 IVc 11*	RV Clione Cruise 07/80	EY67-85	50.0	25-May-80 1900 IVc 12* (Fish lost)
4	12-Dec-79 IVc*	-	26-May-80 1702 IVc 12*	RV Clione Cruise 07/80	EY67-84	48.7	28-May-80 1752 IVc 11* (Fish abandoned due to tag failure)
5	12-Dec-79 IVc*	-	29-May-80 1702 IVc 12*	RV Clione Cruise 07/80	EY67-87	51.4	31-May-80 2030 IVc 12* (Fish abandoned)
6	12-Dec-79 IVc*	39.8	12-Jun-80 1735 IVc 03*	RV Clione Cruise 08/80	EY67-90	52.7	14-Jun-80 2215 IVc 03* (Fish abandoned)
7	12-Dec-79 IVc*	Female 40	16-Jun-80 1205 IVc 03*	RV Clione Cruise 08/80	EY67-88	67.9	19-Jun-80 0800 IVc 03* (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	British Admiralty chart and tidal station		
		Sunrise	Sunset	Local slackwater					
1	31-May-79	0346	2010	2036	S	1	1610 A 1610 B 1504 H		
				0236	N	2			
	1-Jun-79	0336	2010	0905	S	3			
				1555	N	4			
				2129	S	5			
2	3-Jun-79	0333	2013	2349	S	1	1610 A		
				0549	N	2			
	4-Jun-79	0333	2013	1214	S	3			
				1814	N	4			
				0052	S	5			
	5-Jun-79	0333	2013	0652	N	6			
				1313	S	7			
	6-Jun-79	0333	2013	1913	N	8			
				0147	S	9			
23-May-80				0356	1958	1831	N	1	1610 B
						0114	S	2	
24-May-80	0356	2002	0724	N	3				
			1327	S	4				
			1937	N	5				
25-May-80	0358	2002	0219	S	6				
			0909	N	7				
			1429	S	8				
			2109	N	9				
4	26-May-80	0353	2002	2202	N	1	3371 F 1504 H 1610 A 3371 E		
				0339	S	2			
	27-May-80	0349	2006	1029	N	3			
				1550	S	4			
				2250	N	5			
	28-May-80	0349	2006	0414	S	6			
				1114	N	7			
				1627	S	8			
5	29-May-80	0346	2009	1751	S	1	1543 M 1543 C 1504 M		
				0001	N	2			
	30-May-80	0345	2010	0622	S	3			
				1222	N	4			
				1833	S	5			
	31-May-80	0344	2010	0033	N	6			
				0546	S	7			
				1256	N	8			
				1757	S	9			
6	12-Jun-80	0337	2029	2233	N	1	1408 C 1187 G		
				0333	S	2			
	13-Jun-80	0337	2029	1004	N	3			
				1604	S	4			
				2220	N	5			
	14-Jun-80	0337	2029	0420	S	6			
				1050	N	7			
				1650	S	8			
				2307	N	9			
7	16-Jun-80	0327	2029	1214	N	1	1187 G		
				1814	S	2			
	17-Jun-80	0327	2029	0031	N	3			
				0631	S	4			
				1254	N	5			
	18-Jun-80	0327	2035	1854	S	6			
				0113	N	7			
	19-Jun-80	0327	2035	0713	S	8			
				1337	N	9			
				1937	S	10			
	19-Jun-80	0327	2035	0203	N	11			
				0803	S	12			

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

## FIGURES

Figure 1 indicates the locations of the 7 fish tracks in the southern North Sea; subsequent figures show the individual ground track and vertical track of each fish.

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

The ground tracks show hourly positions of the fish (where possible) in relation to the direction of tide;

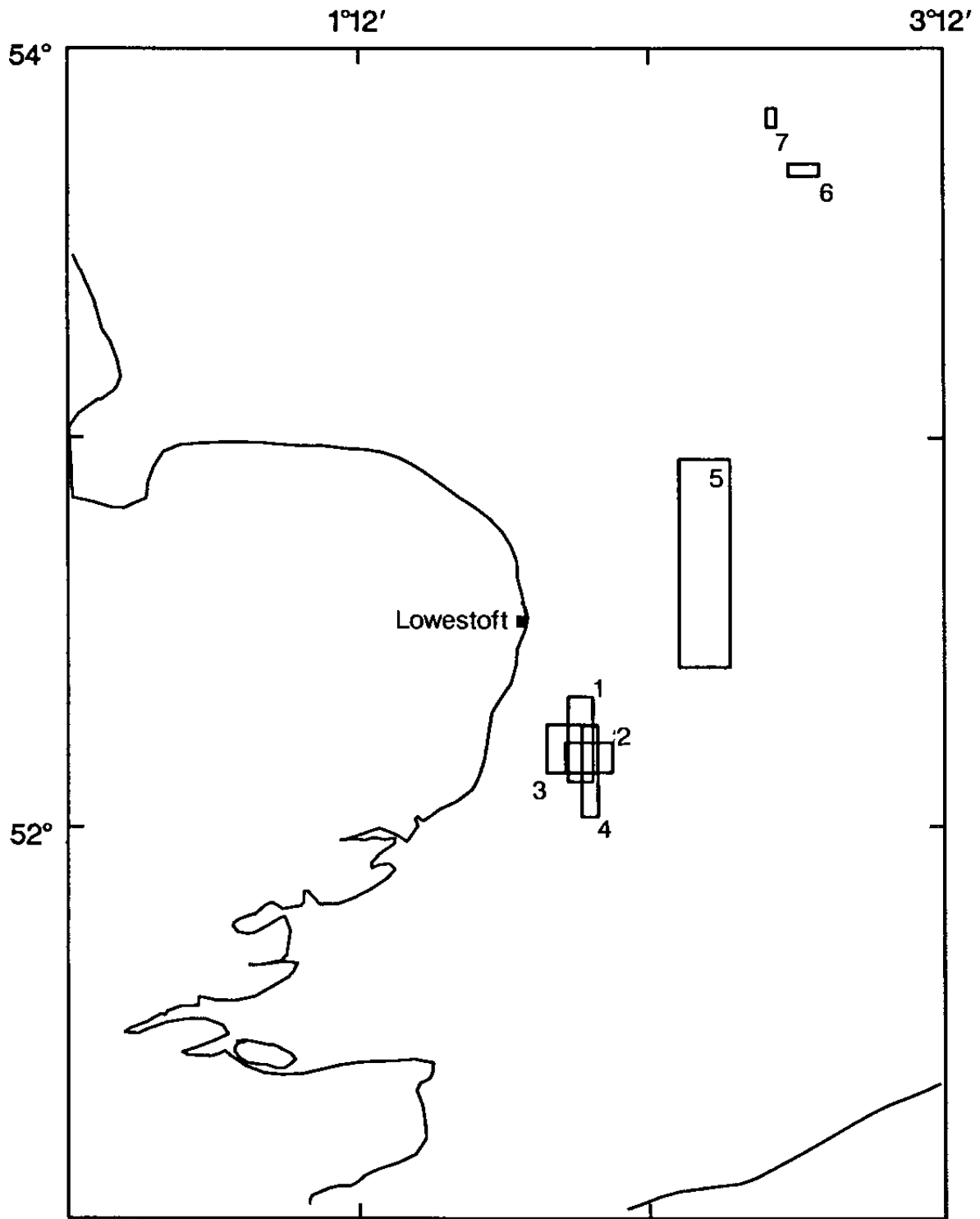
- ▲ north-going tide at night
- △ north-going tide by day
- ▼ south-going tide at night
- ▽ south-going tide by day

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  $\sim 30 \sim$ , which indicates shallower water above the 30 and deeper water below.

The vertical plots show the depth of the fish (solid line) in relation to the sea bed (dashed line) and the direction (N - north-going, S - south-going) of the tidal stream by day and night.



*Figure 1. Positions of each track in the southern North Sea*

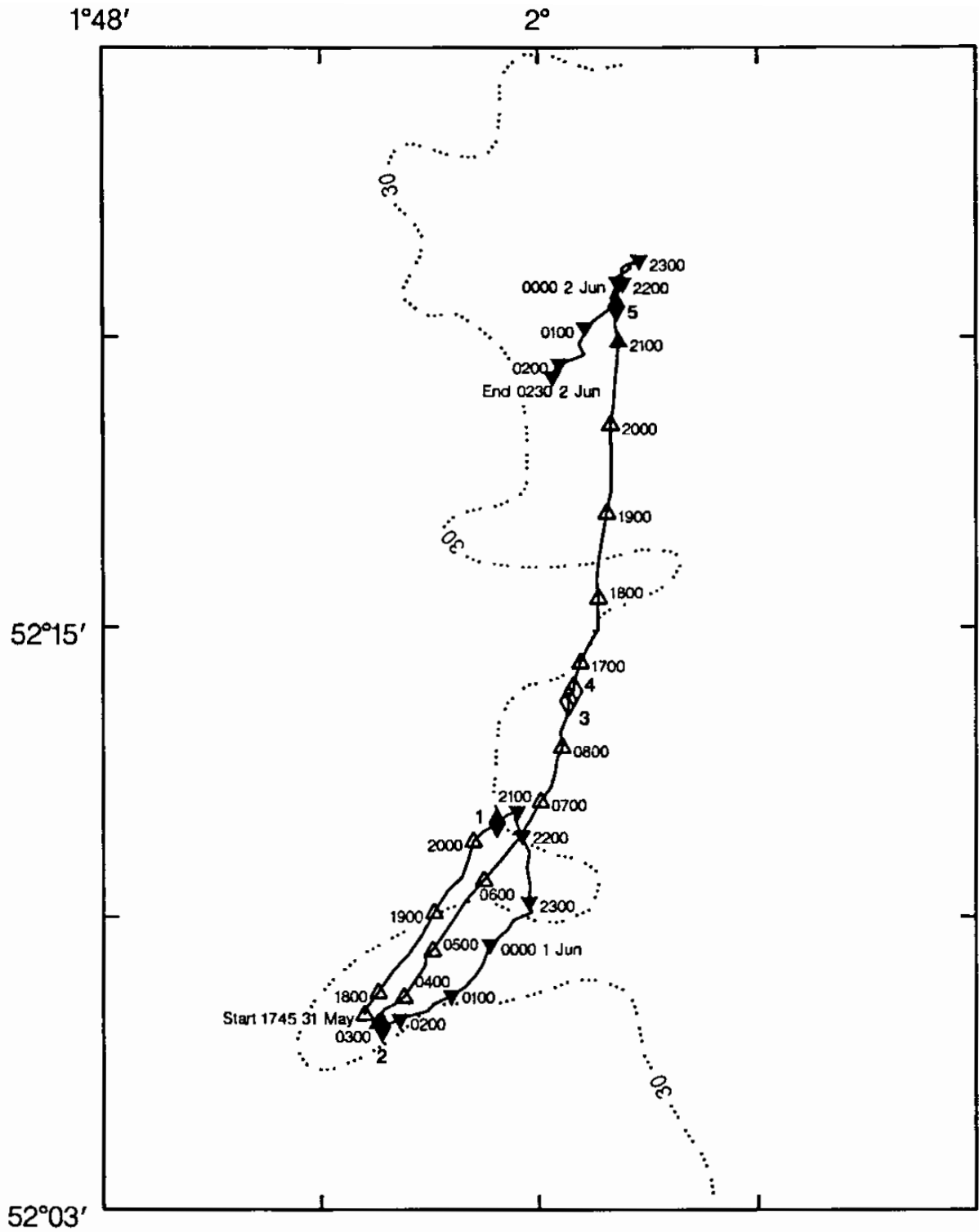


Figure 2. Ground track of Fish 1, released at 1730h, 31 May 1979

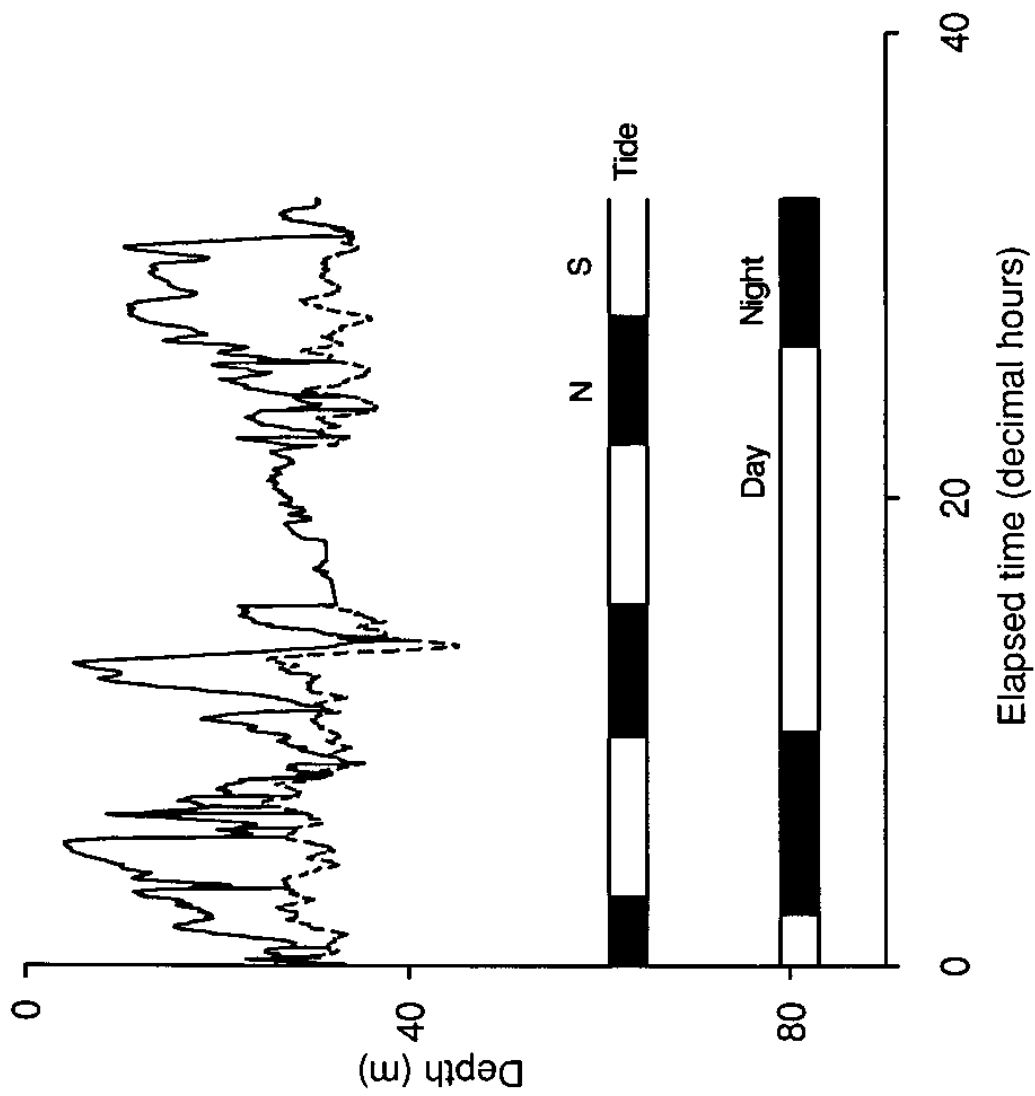


Figure 3. Vertical track of Fish 1

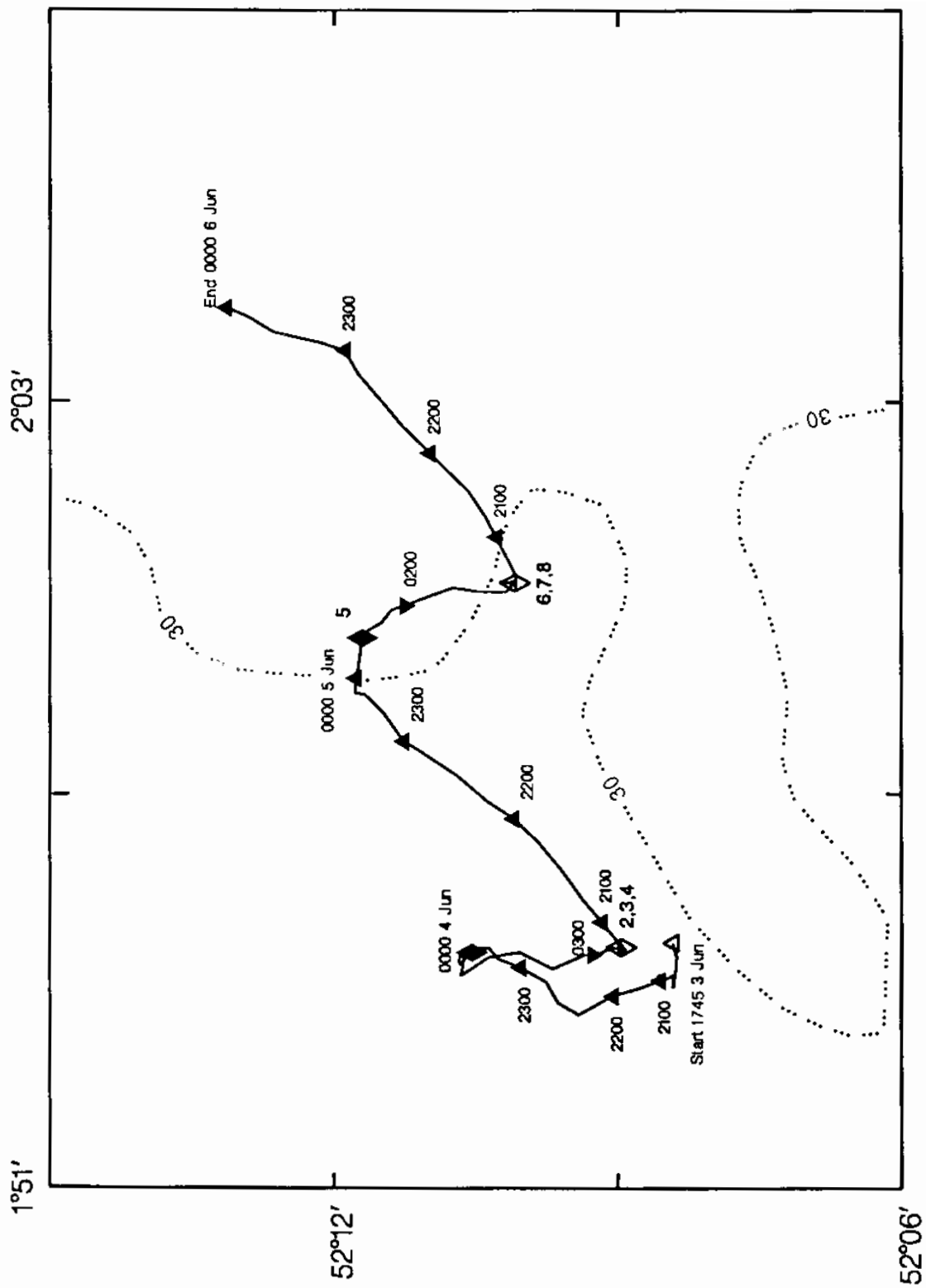
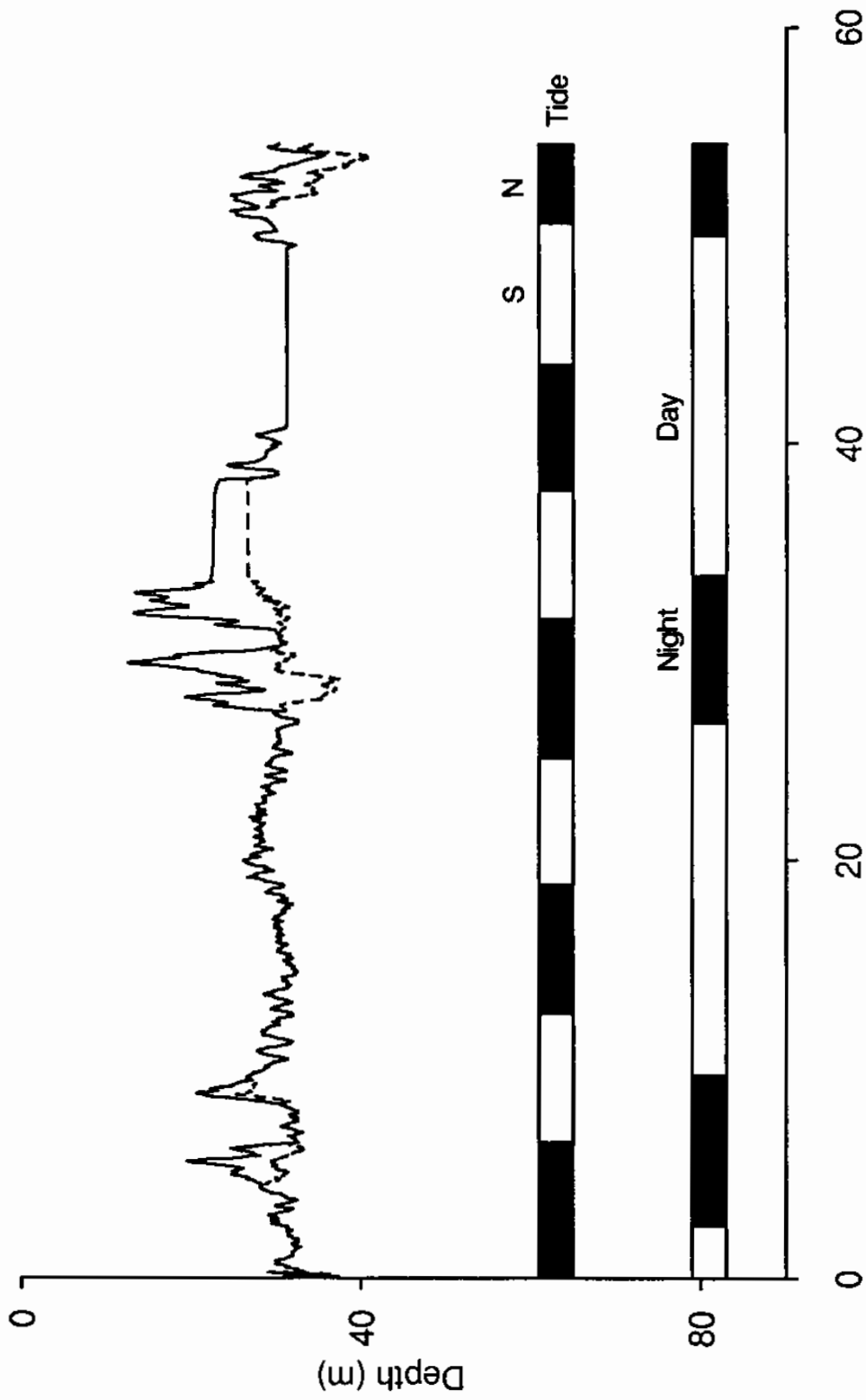


Figure 4. Ground track of Fish 2, released at 1733h, 3 June 1979



Elapsed time (decimal hours)

Figure 5. Vertical track of Fish 2

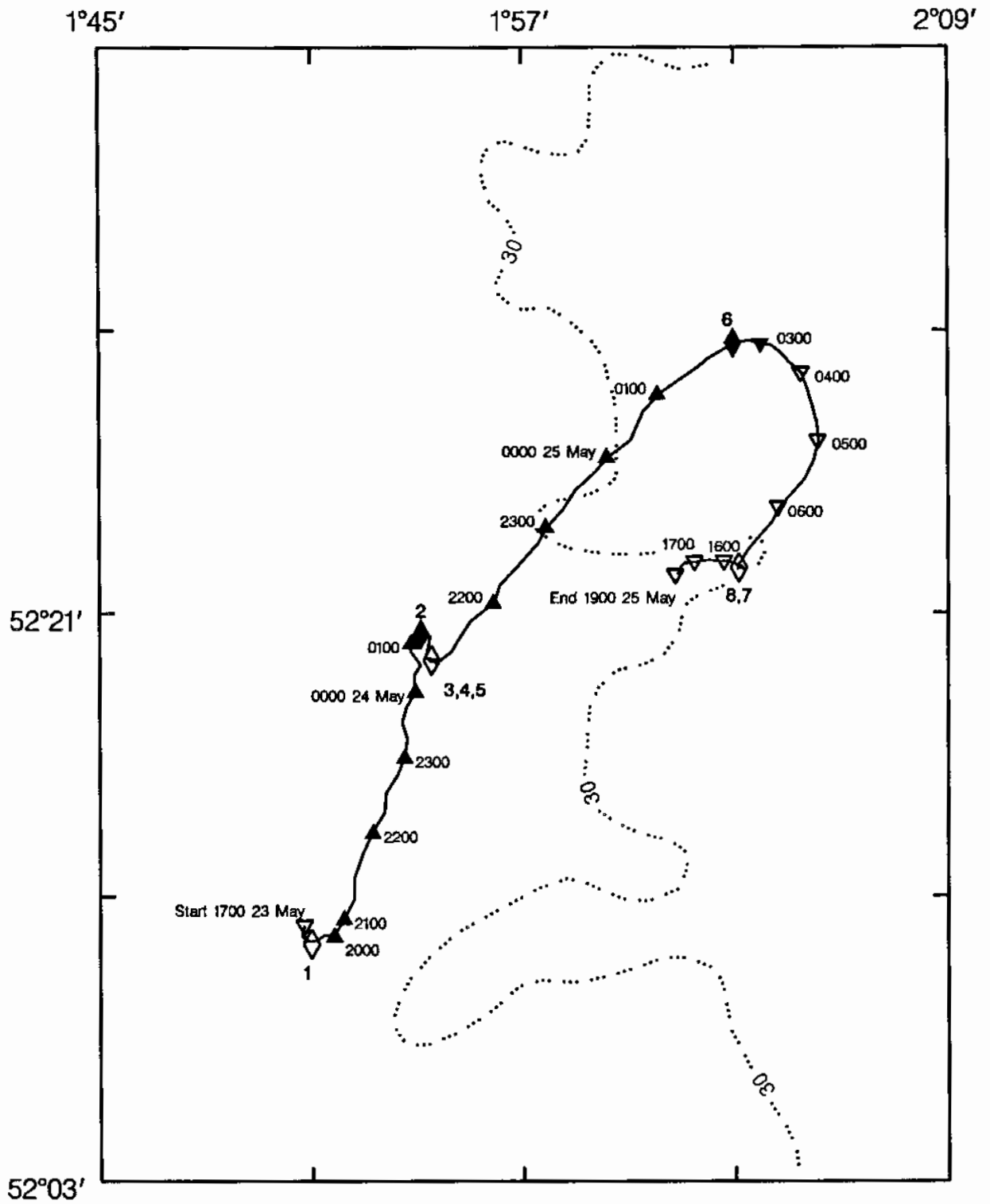


Figure 6. Ground track of Fish 3, released at 1654h, 23 May 1980

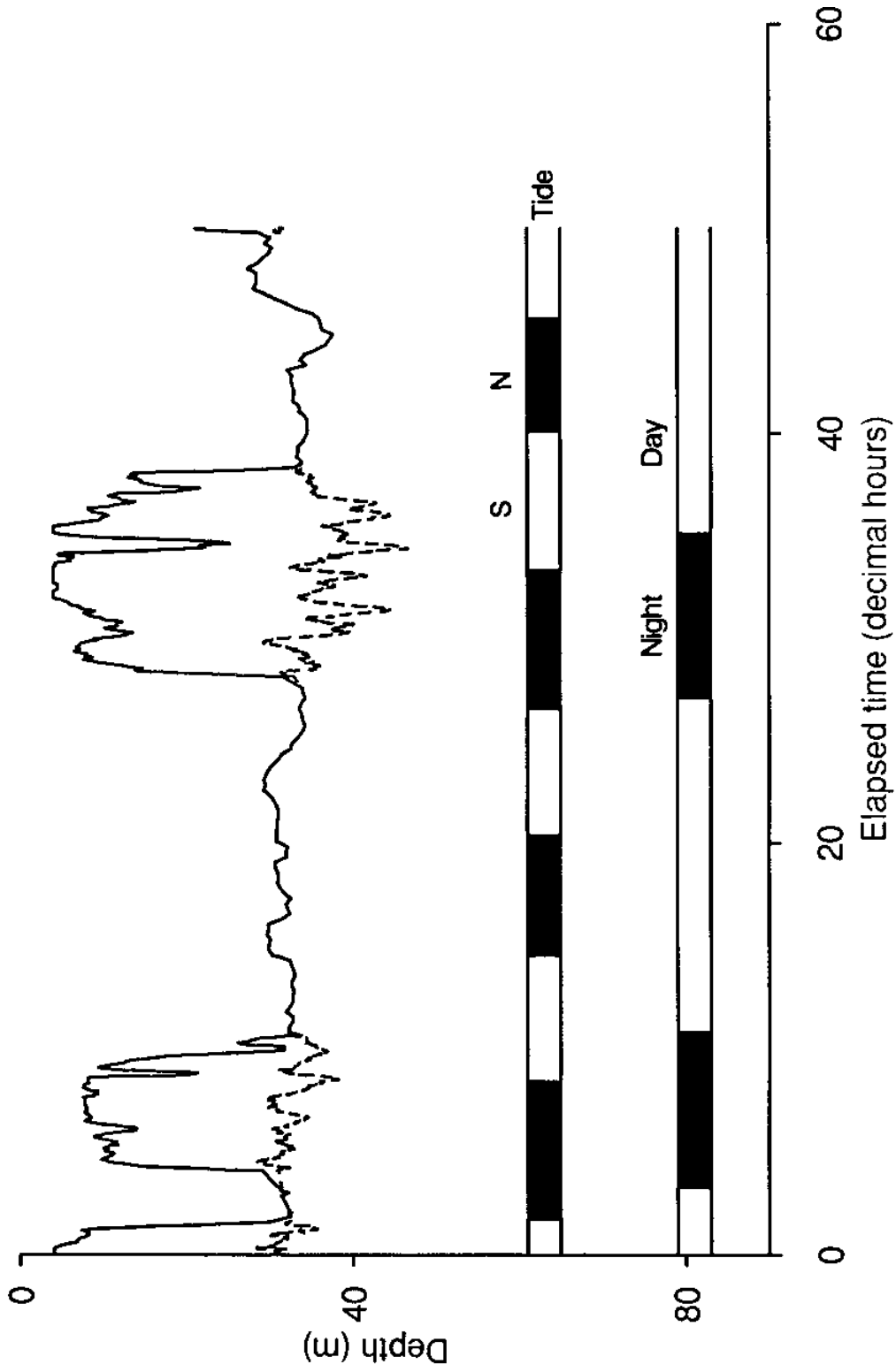


Figure 7. Vertical track of Fish 3

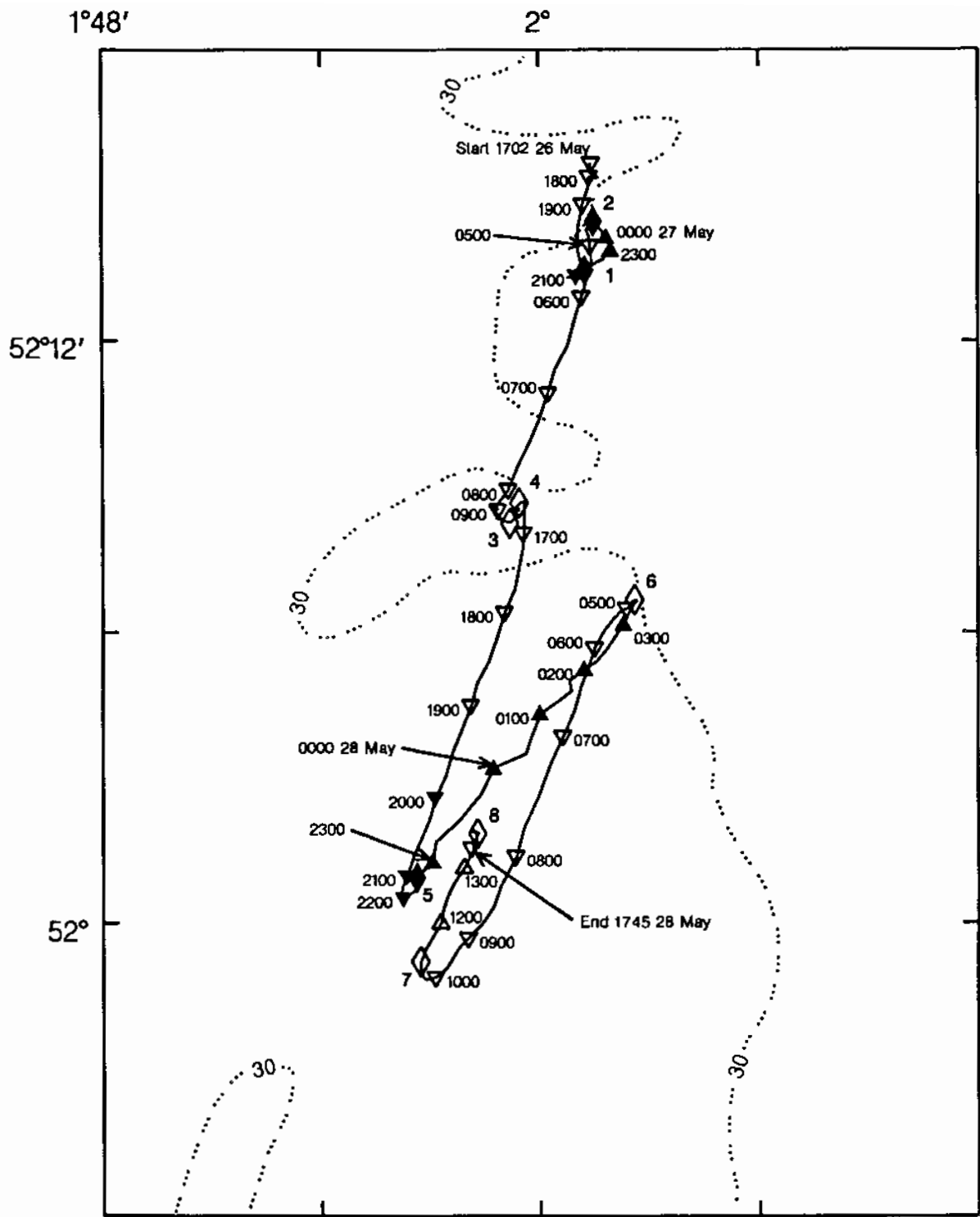


Figure 8. Ground track of Fish 4, released at 1702h, 26 May 1980

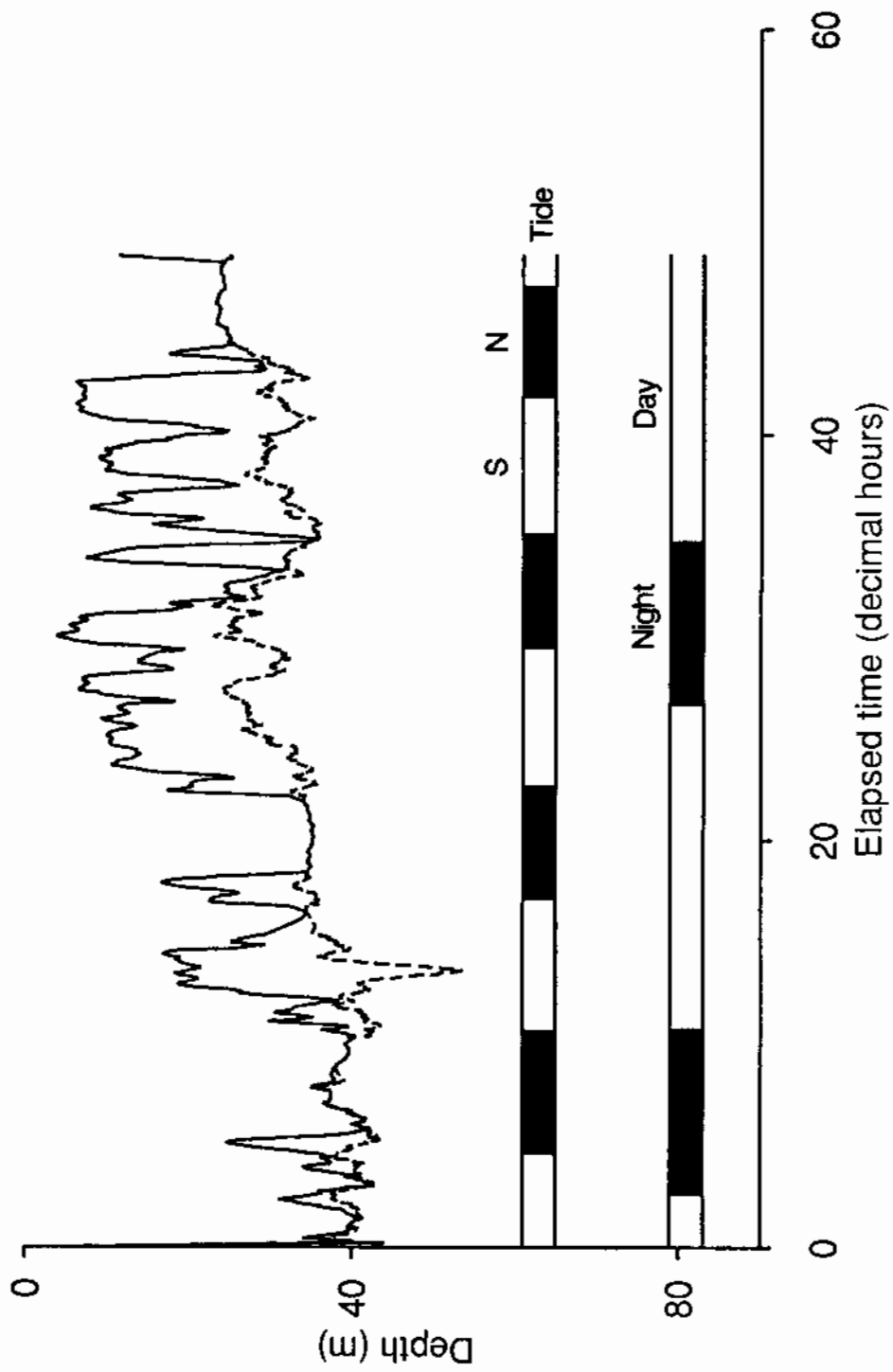


Figure 9. Vertical track of Fish 4

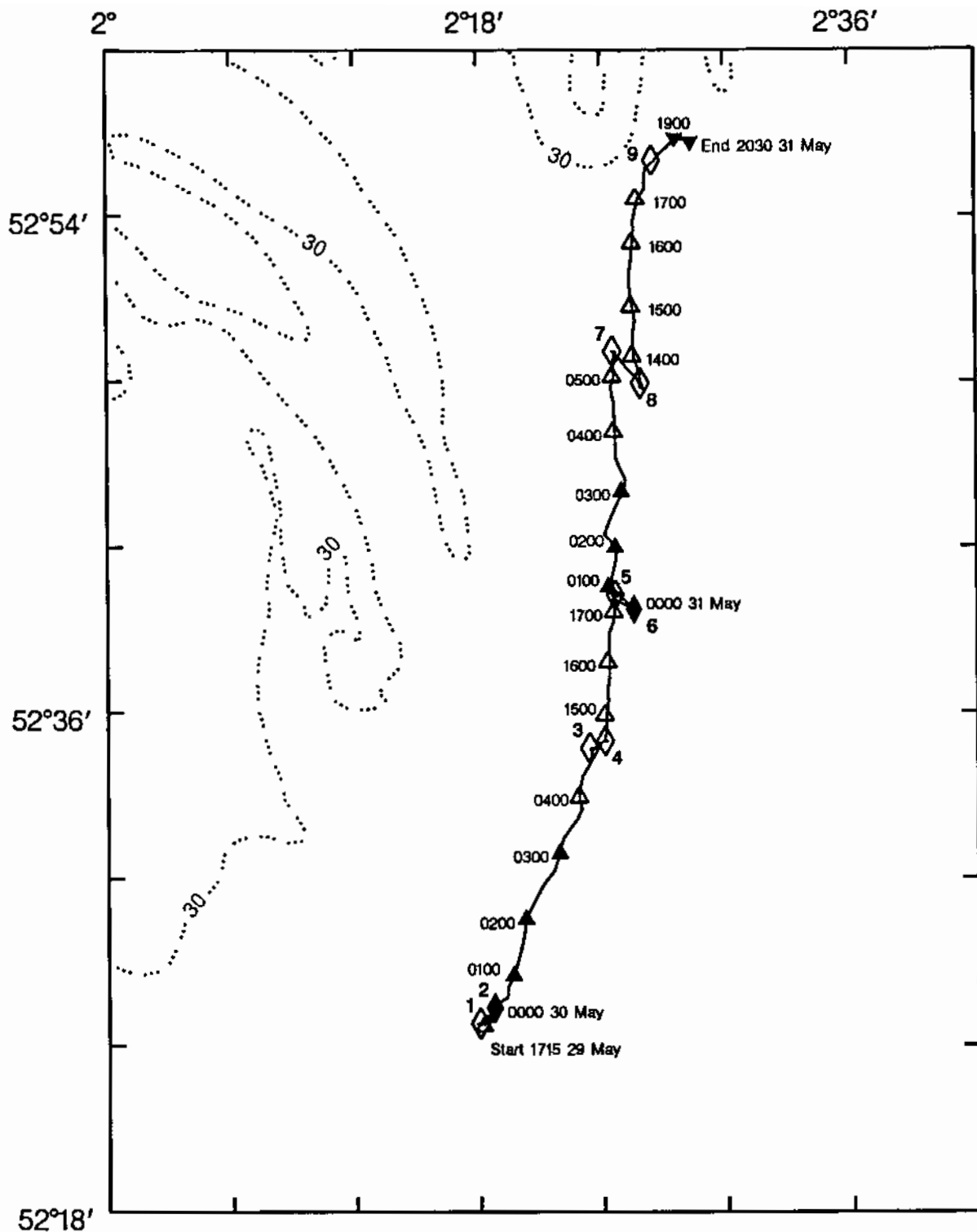


Figure 10. Ground track of Fish 5, released at 1702h, 29 May 1980

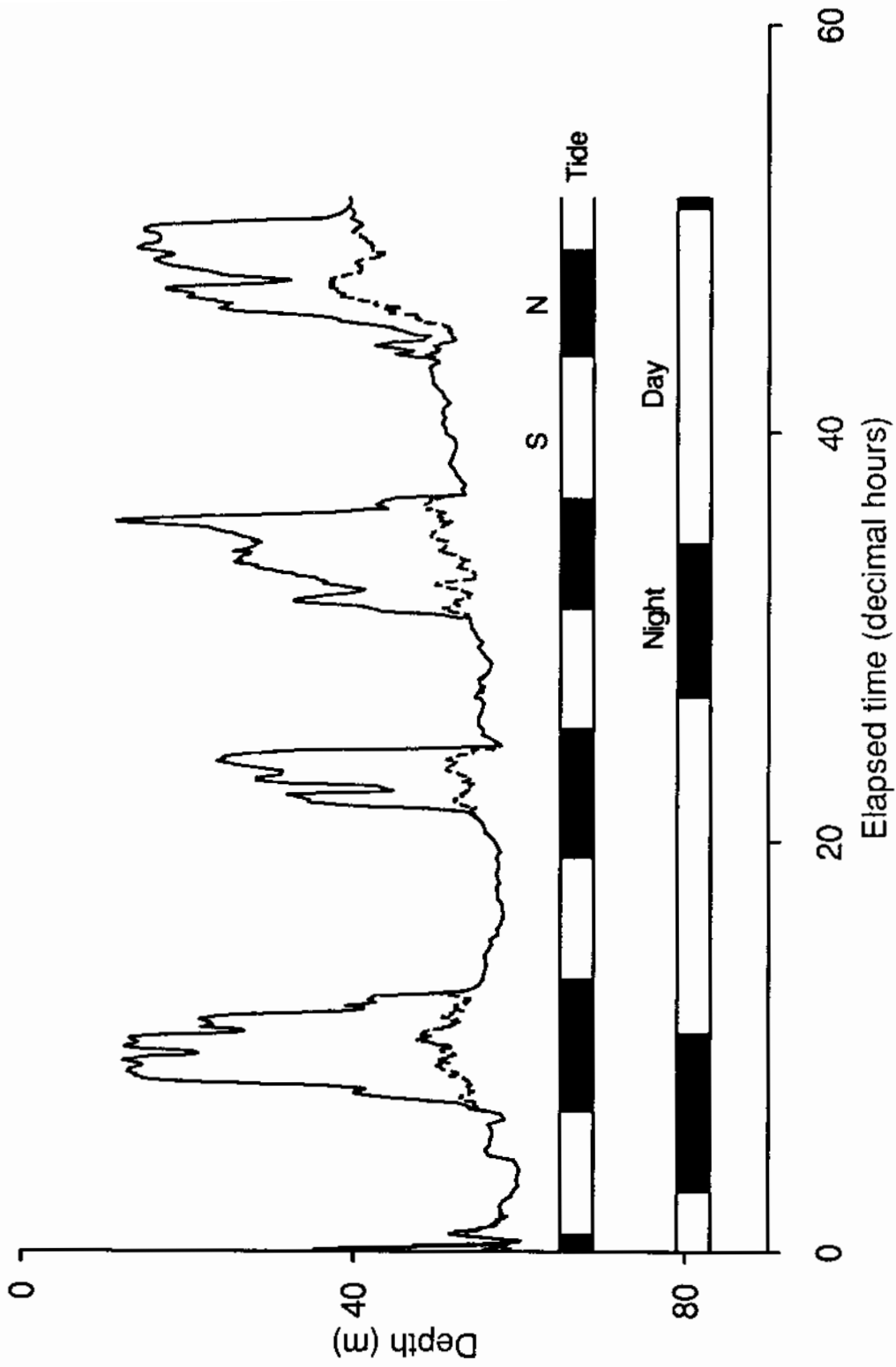


Figure 11. Vertical track of Fish 5



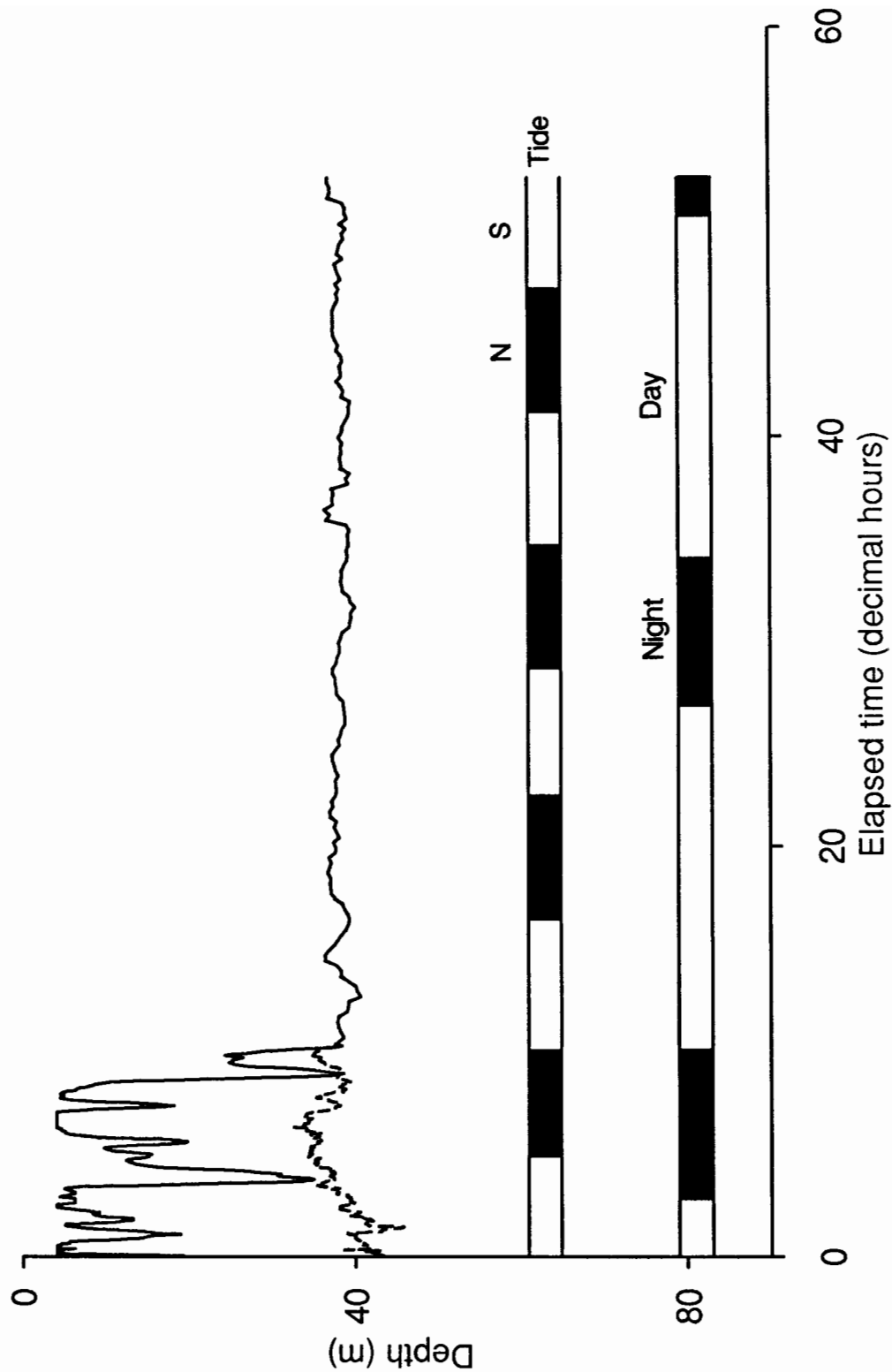


Figure 13. Vertical track of Fish 6

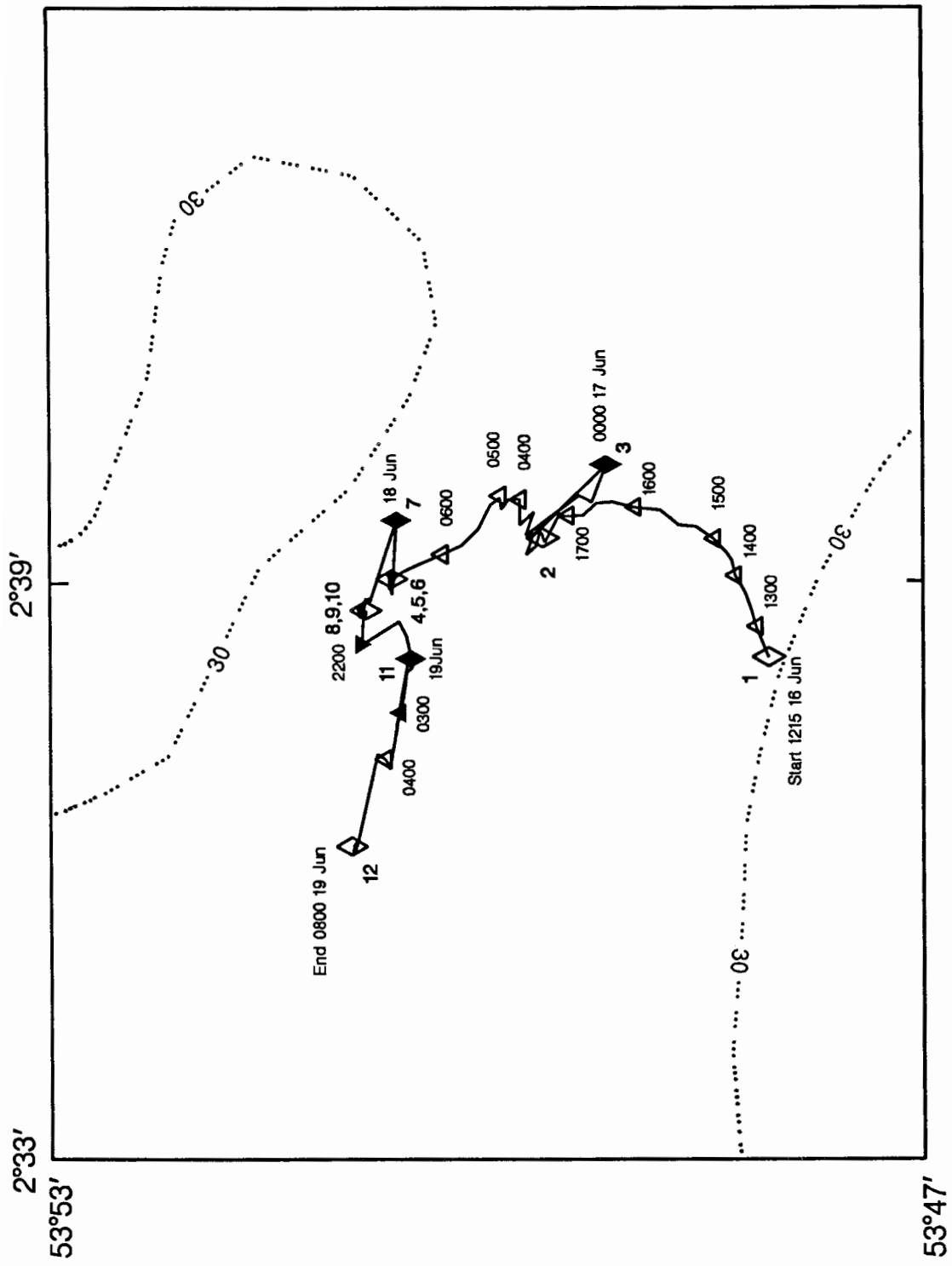


Figure 14. Ground track of Fish 7, released at 1205h, 16 June 1980

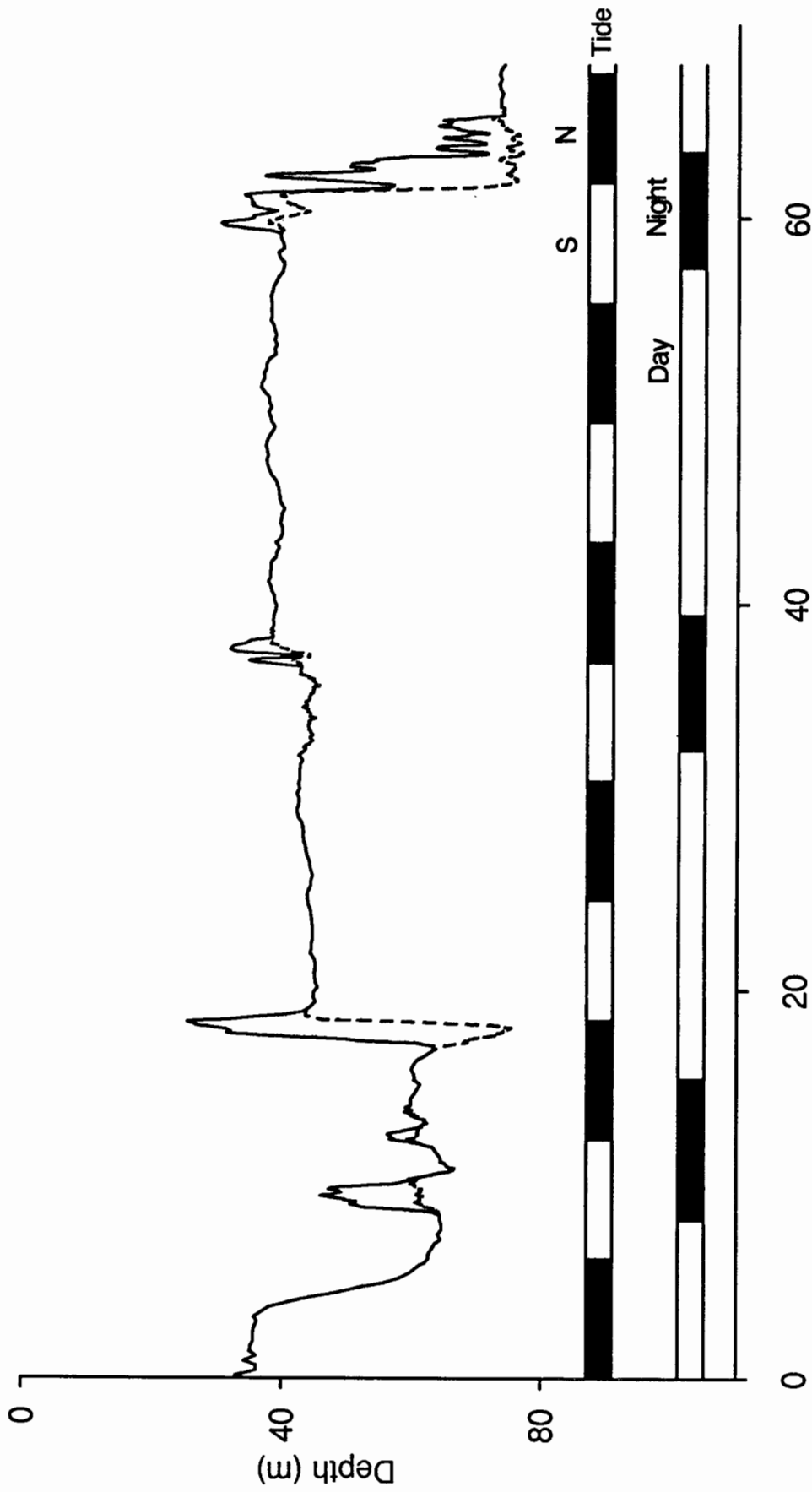


Figure 15. Vertical track of Fish 7

**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)
31-May-79				1-Jun-79			
17:45	0.00	52.119	1.920	10:30	16.75	52.226	2.013
18:00	0.25	52.125	1.926	10:45	17.00	52.226	2.013
18:15	0.50	52.132	1.933	12:30	18.75	52.227	2.013
18:30	0.75	52.138	1.940	12:45	19.00	52.226	2.014
18:45	1.00	52.144	1.946	13:00	19.25	52.226	2.013
19:00	1.25	52.152	1.952	13:15	19.50	52.226	2.013
19:15	1.50	52.159	1.958	13:30	19.75	52.226	2.013
19:30	1.75	52.164	1.964	13:45	20.00	52.227	2.013
19:45	2.00	52.170	1.968	14:00	20.25	52.228	2.016
20:00	2.25	52.176	1.970	14:15	20.50	52.226	2.013
20:15	2.50	52.180	1.975	14:30	20.75	52.227	2.013
20:30	2.75	52.183	1.981	14:45	21.00	52.227	2.013
20:45	3.00	52.185	1.986	15:00	21.25	52.226	2.013
21:00	3.25	52.187	1.990	15:15	21.50	52.226	2.012
21:15	3.50	52.186	1.989	15:30	21.75	52.227	2.013
21:30	3.75	52.184	1.989	15:45	22.00	52.226	2.014
22:00	4.25	52.178	1.992	16:15	22.50	52.228	2.016
22:15	4.50	52.173	1.996	16:30	22.75	52.230	2.016
22:30	4.75	52.167	1.995	16:45	23.00	52.233	2.017
22:45	5.00	52.161	1.996	17:00	23.25	52.238	2.019
23:00	5.25	52.155	1.995	17:15	23.50	52.244	2.023
23:15	5.50	52.152	1.997	17:30	23.75	52.249	2.027
23:30	5.75	52.149	1.988	17:45	24.00	52.254	2.027
23:45	6.00	52.146	1.986	18:00	24.25	52.260	2.028
1-Jun-79				18:15	24.50	52.267	2.027
0:00	6.25	52.141	1.978	18:30	24.75	52.274	2.028
0:15	6.50	52.134	1.974	18:45	25.00	52.282	2.030
0:30	6.75	52.130	1.971	19:00	25.25	52.290	2.031
0:45	7.00	52.126	1.966	19:15	25.50	52.297	2.033
1:00	7.25	52.123	1.960	19:30	25.75	52.305	2.034
1:15	7.50	52.120	1.952	19:45	26.00	52.313	2.033
1:30	7.75	52.118	1.949	20:00	26.25	52.320	2.033
1:45	8.00	52.116	1.939	20:15	26.50	52.327	2.035
2:00	8.25	52.115	1.936	20:30	26.75	52.335	2.035
2:15	8.50	52.113	1.928	20:45	27.00	52.342	2.036
2:30	8.75	52.113	1.928	21:00	27.25	52.349	2.037
2:45	9.00	52.114	1.923	21:15	27.50	52.355	2.035
3:00	9.25	52.114	1.926	21:30	27.75	52.360	2.036
3:15	9.50	52.117	1.927	21:45	28.00	52.364	2.036
3:30	9.75	52.119	1.929	22:00	28.25	52.368	2.039
3:45	10.00	52.120	1.933	22:15	28.50	52.371	2.039
4:00	10.25	52.123	1.938	22:30	28.75	52.374	2.038
4:15	10.50	52.128	1.943	22:45	29.00	52.375	2.040
4:30	10.75	52.133	1.948	23:00	29.25	52.376	2.046
4:45	11.00	52.136	1.948	23:15	29.50	52.375	2.041
5:00	11.25	52.139	1.951	23:30	29.75	52.374	2.042
5:15	11.50	52.144	1.956	23:45	30.00	52.370	2.035
5:30	11.75	52.150	1.961	2-Jun-79			
5:45	12.00	52.156	1.967	0:00	30.25	52.369	2.036
6:00	12.25	52.163	1.975	0:15	30.50	52.364	2.034
6:15	12.50	52.170	1.983	0:30	30.75	52.361	2.035
6:30	12.75	52.177	1.991	0:45	31.00	52.355	2.025
6:45	13.00	52.184	1.996	1:00	31.25	52.353	2.022
7:00	13.25	52.190	2.001	1:15	31.50	52.351	2.022
7:15	13.50	52.195	2.006	1:30	31.75	52.348	2.019
7:30	13.75	52.200	2.008	1:45	32.00	52.344	2.021
7:45	14.00	52.205	2.009	2:00	32.25	52.341	2.010
8:00	14.25	52.209	2.011	2:15	32.50	52.338	2.007
8:15	14.50	52.214	2.010	2:30	32.75	52.336	2.006
8:30	14.75	52.218	2.012				
8:45	15.00	52.221	2.014				
9:00	15.25	52.225	2.014				
10:11	16.43	52.227	2.013				

*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.

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)
31-May-79				31-May-79				31-May-79			
17:40	0.00	33.5	33.5	20:25	2.75	12.6	32.7	23:05	5.42	10.1	28.4
17:45	0.08	33.1	33.1	20:27	2.79	17.5	28.3	23:07	5.46	12.9	27.7
17:50	0.17	28.4	28.4	20:30	2.83	12.1	28.3	23:10	5.50	21.4	24.9
17:55	0.25	24.1	27.0	20:32	2.88	12.6	29.8	23:12	5.54	23.9	27.2
17:57	0.28	22.9	28.3	20:35	2.92	10.5	26.6	23:13	5.55	27.2	27.2
18:00	0.33	25.9	30.7	20:37	2.96	11.2	29.0	23:15	5.58	28.4	28.4
18:02	0.37	22.8	29.1	20:40	3.00	9.8	27.0	23:17	5.63	21.8	27.7
18:03	0.38	31.8	31.8	20:42	3.04	14.1	29.2	23:20	5.67	20.7	29.0
18:05	0.42	27.2	30.4	20:45	3.08	11.6	29.2	23:22	5.71	18.8	27.7
18:07	0.45	25.9	30.7	20:47	3.13	14.5	27.5	23:25	5.75	24.4	27.8
18:08	0.47	26.6	33.2	20:50	3.17	9.9	24.7	23:27	5.79	12.9	27.7
18:09	0.48	24.9	32.6	20:52	3.21	7.3	27.2	23:30	5.83	20.7	29.0
18:10	0.50	24.7	30.6	20:55	3.25	13.2	28.4	23:32	5.88	20.1	26.6
18:12	0.53	23.9	33.7	20:57	3.29	17.9	29.0	23:35	5.92	24.4	27.8
18:13	0.55	21.4	31.8	21:00	3.33	23.5	26.3	23:36	5.93	27.8	27.8
18:15	0.58	27.2	33.7	21:01	3.35	26.3	26.3	23:37	5.96	24.7	30.6
18:18	0.63	25.9	32.2	21:02	3.38	21.3	27.0	23:40	6.00	22.3	30.1
18:20	0.67	27.2	30.4	21:05	3.42	19.3	28.4	23:42	6.04	23.5	31.8
18:22	0.70	25.9	29.1	21:07	3.46	23.9	27.2	23:45	6.08	21.8	33.5
18:25	0.75	28.3	30.9	21:10	3.50	17.3	27.2	23:47	6.13	23.5	30.7
18:26	0.77	29.8	32.7	21:12	3.54	14.9	27.9	23:50	6.17	23.5	31.8
18:27	0.78	32.7	32.7	21:15	3.58	13.1	26.6	23:52	6.21	17.6	27.8
18:28	0.80	24.7	30.6	21:17	3.63	7.5	24.9	23:55	6.25	15.9	30.6
18:30	0.83	24.9	32.6	21:20	3.67	7.4	27.8	23:57	6.29	9.4	28.3
18:35	0.92	29.0	32.5	21:22	3.71	9.6	26.3	1-Jun-79			
18:40	1.00	27.8	31.1	21:25	3.75	9.2	27.5	0:00	6.33	9.1	31.7
18:45	1.08	20.2	33.6	21:27	3.79	15.5	29.8	0:02	6.38	8.7	27.4
18:50	1.17	15.8	31.4	21:30	3.83	16.6	29.1	0:05	6.42	9.9	30.6
18:52	1.20	20.0	32.0	21:32	3.88	14.5	27.5	0:07	6.46	4.0	29.8
18:55	1.25	24.1	35.5	21:35	3.92	12.4	31.0	0:10	6.50	5.8	31.2
18:57	1.29	22.3	35.2	21:37	3.96	9.8	30.6	0:12	6.54	11.9	27.5
19:00	1.33	16.6	35.3	21:40	4.00	11.6	29.2	0:15	6.58	27.7	27.7
19:02	1.38	18.4	32.7	21:42	4.04	11.0	28.4	0:17	6.63	18.8	27.7
19:05	1.42	16.2	31.4	21:45	4.08	7.1	29.1	0:20	6.67	21.8	27.7
19:07	1.46	16.8	25.4	21:47	4.13	13.4	35.3	0:22	6.71	15.5	24.1
19:10	1.50	11.0	28.4	21:50	4.17	8.7	29.8	0:25	6.75	18.4	27.0
19:12	1.54	18.6	30.7	21:52	4.21	10.3	32.2	0:27	6.79	12.6	27.0
19:15	1.58	14.5	31.8	21:55	4.25	7.8	30.8	0:30	6.83	19.7	25.9
19:17	1.63	14.7	29.0	21:57	4.29	10.5	32.9	0:31	6.85	25.9	25.9
19:20	1.67	15.9	30.6	22:00	4.33	10.3	35.3	0:32	6.88	18.0	21.4
19:22	1.71	17.6	31.1	22:02	4.38	9.6	31.8	0:35	6.92	15.9	24.7
19:25	1.75	16.3	24.5	22:05	4.42	7.9	31.4	0:37	6.96	18.4	24.1
19:27	1.79	20.7	29.0	22:07	4.46	6.9	29.8	0:40	7.00	12.4	26.3
19:30	1.83	19.7	25.9	22:10	4.50	6.8	31.8	0:42	7.04	15.9	24.7
19:32	1.88	14.7	29.0	22:12	4.54	7.2	29.8	0:45	7.08	13.4	25.9
19:35	1.92	17.6	28.8	22:15	4.58	7.2	29.8	0:47	7.13	17.1	27.5
19:37	1.96	24.1	27.0	22:17	4.63	6.8	26.3	0:50	7.17	22.3	30.1
19:40	2.00	20.1	26.6	22:20	4.67	7.7	29.6	0:52	7.21	19.7	30.1
19:42	2.04	19.4	27.0	22:22	4.71	4.0	29.6	0:55	7.25	16.2	28.4
19:45	2.08	15.2	31.8	22:25	4.75	4.0	33.1	0:57	7.29	21.8	27.7
19:47	2.13	19.7	27.5	22:27	4.79	4.0	29.8	0:58	7.30	27.7	27.7
19:50	2.17	19.3	28.4	22:30	4.83	7.3	33.7	1:00	7.33	21.8	27.7
19:52	2.21	16.9	26.6	22:32	4.88	4.0	30.8	1:02	7.38	18.8	27.7
19:55	2.25	22.9	28.3	22:35	4.92	4.0	32.2	1:05	7.42	20.1	29.8
19:57	2.29	18.6	28.3	22:37	4.96	6.3	35.5	1:07	7.46	18.4	29.8
20:00	2.33	13.4	25.9	22:40	5.00	4.0	29.8	1:10	7.50	21.3	29.8
20:02	2.38	18.0	21.4	22:42	5.04	4.0	30.6	1:12	7.54	19.3	28.4
20:05	2.42	17.9	29.0	22:45	5.08	4.0	29.0	1:15	7.58	20.6	23.9
20:07	2.46	18.6	25.9	22:47	5.13	4.0	34.5	1:17	7.63	21.4	24.9
20:10	2.50	11.7	27.0	22:50	5.17	4.0	31.8	1:20	7.67	20.6	27.2
20:12	2.54	15.0	26.0	22:52	5.21	4.0	29.8	1:22	7.71	23.5	26.3
20:15	2.58	14.8	28.3	22:55	5.25	4.0	28.3	1:25	7.75	19.7	27.5
20:17	2.63	24.2	31.7	22:57	5.29	4.0	27.0	1:27	7.79	20.7	26.3
20:20	2.67	16.6	29.1	23:00	5.33	4.0	28.4	1:30	7.83	23.3	26.6
20:22	2.71	13.9	30.4	23:02	5.38	7.3	27.2	1:32	7.88	26.6	32.9

Annex 1.2 continued. Sequential vertical positions of Fish 1

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)
1-Jun-79				1-Jun-79				1-Jun-79			
1:35	7.92	23.3	32.9	4:22	10.71	24.4	31.1	7:12	13.54	32.2	47.6
1:37	7.96	22.3	31.4	4:25	10.75	22.9	30.9	7:15	13.58	29.0	45.4
1:40	8.00	19.7	29.1	4:27	10.79	22.9	33.6	7:17	13.63	29.8	45.6
1:42	8.04	27.8	31.1	4:30	10.83	20.0	28.0	7:20	13.67	33.2	44.1
1:43	8.05	31.1	31.1	4:32	10.88	24.9	31.8	7:22	13.71	36.2	49.3
1:45	8.08	28.4	31.4	4:35	10.92	34.5	42.7	7:25	13.75	34.5	42.7
1:47	8.13	30.6	33.5	4:37	10.96	24.7	27.7	7:27	13.79	32.2	41.4
1:50	8.17	31.4	31.4	4:40	11.00	28.4	28.4	7:30	13.83	33.2	44.1
1:52	8.21	29.0	32.5	4:42	11.04	27.0	27.0	7:32	13.88	37.0	40.3
1:55	8.25	25.4	32.5	4:45	11.08	31.4	31.4	7:35	13.92	32.2	38.4
1:57	<del>8.29</del>	<del>31.4</del>	<del>31.4</del>	4:47	11.13	28.4	28.4	7:37	13.96	33.7	37.0
2:00	<del>8.33</del>	<del>29.1</del>	<del>29.1</del>	4:50	11.17	32.2	32.2	7:38	13.97	37.0	37.0
2:02	8.38	24.4	27.8	4:52	11.21	30.4	30.4	7:40	14.00	33.7	37.0
2:05	8.42	24.4	31.1	4:55	11.25	22.9	28.3	7:42	14.04	27.2	37.0
2:07	8.46	27.0	41.1	4:57	11.29	25.1	32.1	7:45	14.08	30.4	37.0
2:10	8.50	31.0	35.5	5:00	11.33	28.3	33.6	7:47	14.13	33.7	37.0
2:12	8.54	30.1	35.2	5:02	11.38	27.8	34.5	7:50	14.17	37.7	37.7
2:15	8.58	25.9	35.3	5:05	11.42	26.3	34.5	7:52	14.21	32.7	38.3
2:17	8.63	29.1	32.2	5:07	11.46	28.3	33.1	7:57	14.29	30.6	39.3
2:20	8.67	30.6	33.5	5:10	11.50	24.7	33.5	8:00	14.33	26.6	36.1
2:22	8.71	34.4	34.4	5:12	11.54	23.9	33.7	8:02	14.38	22.3	36.9
2:25	<del>8.75</del>	<del>32.9</del>	<del>32.9</del>	5:15	11.58	18.3	29.0	8:05	14.42	29.1	35.3
2:27	8.79	30.4	30.4	5:17	11.63	23.5	30.7	8:07	14.46	30.1	32.6
2:30	8.83	33.7	33.7	5:20	11.67	24.2	29.2	8:10	14.50	24.9	28.4
2:32	<del>8.88</del>	<del>31.8</del>	<del>31.8</del>	5:22	11.71	19.2	29.2	8:12	14.54	22.8	38.4
2:35	<del>8.92</del>	<del>32.2</del>	<del>32.2</del>	5:25	11.75	17.5	28.3	8:15	14.58	24.3	35.5
2:37	<del>8.96</del>	<del>31.4</del>	<del>31.4</del>	5:27	11.79	13.4	29.1	8:17	14.63	22.3	37.7
2:40	<del>9.00</del>	<del>29.8</del>	<del>29.8</del>	5:30	11.83	14.9	30.0	8:20	14.67	26.5	41.3
2:42	9.04	27.8	31.1	5:32	11.88	14.5	31.0	8:22	14.71	24.1	36.0
2:45	9.08	27.2	33.7	5:35	11.92	15.8	29.8	8:25	14.75	22.3	35.2
2:47	9.13	31.1	34.5	5:37	11.96	10.6	30.4	8:27	14.79	23.6	38.5
2:50	9.17	29.0	32.5	5:40	12.00	11.0	28.4	8:30	14.83	23.5	33.1
2:52	9.21	29.0	34.5	5:42	12.04	10.3	29.1	8:35	14.92	22.3	33.2
2:55	9.25	27.7	33.5	5:45	12.08	8.9	30.7	8:37	14.96	23.3	36.1
2:57	9.29	27.7	33.5	5:47	12.13	7.3	30.4	8:40	15.00	21.3	35.5
3:00	9.33	31.8	34.5	5:50	12.17	7.3	27.2	8:42	15.04	19.7	35.3
3:02	9.38	28.4	34.4	5:52	12.21	7.2	32.9	8:45	15.08	24.1	36.0
3:05	9.42	23.9	30.4	5:55	12.25	7.0	30.6	8:47	15.13	24.9	31.8
3:07	9.46	24.4	31.1	5:57	12.29	7.7	29.6	8:50	15.17	25.3	34.4
3:10	9.50	27.7	30.6	6:00	12.33	7.5	31.8	8:52	15.21	23.9	33.7
3:12	9.54	27.0	29.8	6:02	12.38	11.0	28.4	8:55	15.25	19.0	30.2
3:15	9.58	25.3	34.4	6:05	12.42	12.4	29.1	8:57	15.29	21.4	31.8
3:17	9.63	28.4	31.4	6:07	12.46	12.4	31.8	9:00	15.33	22.3	31.4
3:20	9.67	27.0	32.7	6:10	12.50	10.3	32.2	9:02	15.38	23.3	32.9
3:22	9.71	27.0	32.7	6:12	12.54	7.8	23.2	9:05	15.42	24.9	31.8
3:25	9.75	28.4	34.4	6:15	12.58	7.8	22.7	9:07	15.46	20.0	28.0
3:27	9.79	29.1	32.2	6:17	12.63	7.3	23.9	9:12	15.54	35.5	35.5
3:30	9.83	27.8	31.1	6:20	12.67	7.4	31.1	10:11	16.52	35.5	35.5
3:32	9.88	24.2	34.2	6:22	12.71	7.7	29.6	10:00	16.34	30.9	30.9
3:35	9.92	26.6	33.2	6:25	12.75	4.0	26.0	10:27	16.79	28.4	28.4
3:37	9.96	22.3	31.4	6:27	12.79	4.0	29.1	10:30	16.83	27.2	27.2
3:40	10.00	21.9	29.0	6:30	12.83	6.5	29.2	10:32	16.88	30.6	30.6
3:42	10.04	23.9	33.7	6:32	12.88	4.0	25.9	10:35	16.92	32.5	32.5
3:45	10.08	22.9	30.9	6:35	12.92	4.0	28.0	10:40	17.00	34.3	34.3
3:47	10.13	24.1	29.8	6:37	12.96	7.8	27.0	10:42	17.04	29.1	29.1
3:50	10.17	21.8	30.6	6:40	13.00	4.0	23.2	10:45	17.08	29.1	29.1
3:52	10.21	24.9	31.8	6:42	13.04	11.7	23.2	10:50	17.17	30.4	30.4
3:55	10.25	26.0	29.6	6:45	13.08	11.5	26.5	10:52	17.21	29.0	29.0
3:57	10.29	23.9	30.4	6:47	13.13	12.0	24.1	10:55	17.25	32.2	32.2
4:00	10.33	24.4	31.1	6:50	13.17	18.0	24.9	10:57	17.29	32.6	32.6
4:02	10.38	18.7	29.6	6:52	13.21	16.6	29.1	11:00	17.33	33.8	33.8
4:05	10.42	18.3	29.0	6:55	13.25	22.7	30.2	11:50	18.17	31.8	31.8
4:07	10.46	17.6	31.1	6:57	13.29	18.0	31.8	11:52	18.21	29.8	29.8
4:10	10.50	18.7	29.6	7:00	13.33	23.5	34.5	11:55	18.25	30.1	30.1
4:12	10.54	16.9	29.8	7:02	13.38	20.6	30.4	11:57	18.29	25.9	25.9
4:15	10.58	16.6	29.1	7:05	13.42	25.4	36.1	12:12	18.54	27.0	27.0
4:17	10.63	20.6	30.4	7:07	13.46	26.6	39.3	12:30	18.83	23.6	23.6
4:20	10.67	21.0	31.1	7:10	13.50	31.1	41.2	12:35	18.92	27.2	27.2

Annex 1.2 continued. Sequential vertical positions of Fish 1

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)
1-Jun-79				1-Jun-79				1-Jun-79			
12:37	18.96	27.2	27.2	15:40	22.00	26.7	26.7	18:35	24.92	19.7	32.2
12:40	19.00	28.4	28.4	15:42	22.04	24.9	24.9	18:37	24.96	20.1	32.9
12:42	19.04	32.6	32.6	15:45	22.08	27.5	27.5	18:40	25.00	20.7	31.8
12:45	19.08	33.0	33.0	15:47	22.13	28.0	28.0	18:42	25.04	17.5	33.6
12:47	19.13	31.0	31.0	15:50	22.17	29.0	29.0	18:45	25.08	24.1	32.7
12:50	19.17	29.1	29.1	15:52	22.21	30.7	30.7	18:47	25.13	19.7	35.3
12:52	19.21	27.0	27.0	15:55	22.25	32.2	32.2	18:50	25.17	19.2	36.6
12:55	19.25	26.5	26.5	15:57	22.29	30.7	30.7	18:52	25.21	30.9	36.2
12:57	19.29	27.0	27.0	16:05	22.42	18.8	33.5	18:55	25.25	25.6	33.6
13:00	19.33	24.9	24.9	16:07	22.46	18.6	42.6	18:57	25.29	25.6	36.2
13:02	19.38	27.7	27.7	16:10	22.50	14.7	29.0	19:00	25.33	24.2	36.6
13:05	19.42	30.1	30.1	16:12	22.54	19.7	31.4	19:02	25.38	29.1	35.3
13:07	19.46	33.2	33.2	16:15	22.58	24.9	33.3	19:05	25.42	21.3	35.5
13:10	19.50	29.0	29.0	16:17	22.63	26.2	30.7	19:07	25.46	22.3	35.2
13:12	19.54	31.8	31.8	16:20	22.67	30.8	34.6	19:10	25.50	21.1	35.5
13:15	19.58	24.9	24.9	16:22	22.70	34.6	34.6	19:12	25.54	20.2	36.2
13:17	19.63	26.0	26.0	16:25	22.75	29.8	29.8	19:15	25.58	24.7	36.4
13:20	19.67	27.0	27.0	16:27	22.79	25.8	25.8	19:17	25.63	22.9	36.2
13:22	19.71	27.0	27.0	16:30	22.83	27.5	27.5	19:20	25.67	17.5	33.6
13:25	19.75	27.0	27.0	16:32	22.88	30.7	30.7	19:22	25.71	16.6	32.2
13:27	19.79	26.0	26.0	16:35	22.92	33.1	33.1	19:25	25.75	13.9	33.7
13:30	19.83	28.4	28.4	16:37	22.96	29.1	35.3	19:27	25.79	20.2	33.6
13:32	19.88	29.1	29.1	16:40	23.00	21.1	33.9	19:30	25.83	24.2	34.2
13:35	19.92	29.0	29.0	16:42	23.04	24.9	29.1	19:32	25.88	26.7	31.7
13:37	19.96	26.6	26.6	16:45	23.08	24.9	31.8	19:35	25.92	29.8	29.8
13:40	20.00	27.0	27.0	16:47	23.13	24.1	32.7	19:35	25.93	29.8	29.8
13:42	20.04	27.5	27.5	16:50	23.17	23.3	32.9	19:37	25.96	24.7	30.6
13:45	20.08	26.0	26.0	16:52	23.21	23.9	33.7	19:40	26.00	24.1	32.7
13:47	20.13	26.0	26.0	16:55	23.25	28.4	31.4	19:42	26.04	19.7	32.6
13:50	20.17	28.4	28.4	16:57	23.29	23.3	29.8	19:45	26.08	22.3	34.4
13:52	20.21	27.2	27.2	17:00	23.33	20.2	25.6	19:47	26.13	21.4	31.8
13:55	20.25	27.7	27.7	17:02	23.38	24.4	31.1	19:50	26.17	19.3	31.4
13:57	20.29	24.9	24.9	17:05	23.42	22.8	32.2	19:52	26.21	19.7	27.5
14:00	20.33	24.9	24.9	17:07	23.46	21.4	31.8	19:55	26.25	17.1	27.5
14:05	20.42	28.0	28.0	17:10	23.50	23.6	31.4	19:57	26.29	20.7	26.3
14:10	20.50	24.4	24.4	17:12	23.54	24.1	36.0	20:00	26.33	21.3	27.0
14:15	20.58	23.9	23.9	17:15	23.58	29.6	36.9	20:02	26.38	22.3	30.1
14:17	20.63	28.4	28.4	17:17	23.63	20.6	37.0	20:05	26.42	30.9	33.6
14:22	20.71	27.0	27.0	17:20	23.67	24.4	34.5	20:07	26.46	24.7	33.5
14:25	20.75	27.0	27.0	17:22	23.71	23.9	37.0	20:10	26.50	22.8	32.2
14:27	20.79	23.2	23.2	17:25	23.75	23.9	37.0	20:12	26.54	19.2	31.7
14:30	20.83	22.7	22.7	17:27	23.79	23.6	35.3	20:15	26.58	15.9	33.5
14:32	20.88	26.5	26.5	17:30	23.83	26.0	36.9	20:17	26.63	15.5	32.7
14:35	20.92	27.0	27.0	17:32	23.88	36.4	36.4	20:20	26.67	15.3	33.9
14:37	20.96	27.0	27.0	17:35	23.92	33.7	37.0	20:22	26.71	11.3	33.2
14:40	21.00	27.0	27.0	17:37	23.96	33.2	36.9	20:25	26.75	7.1	31.4
14:42	21.04	24.9	24.9	17:40	24.00	28.3	36.2	20:27	26.79	15.2	29.0
14:45	21.08	28.0	28.0	17:42	24.04	28.3	36.2	20:30	26.83	21.3	32.7
14:50	21.17	25.4	25.4	17:45	24.08	29.0	34.5	20:32	26.88	21.8	30.6
14:52	21.21	25.9	25.9	17:47	24.13	26.7	36.6	20:35	26.92	18.4	32.7
14:55	21.25	24.7	24.7	17:50	24.17	29.0	34.5	20:37	26.96	17.1	30.1
14:57	21.29	24.9	24.9	17:52	24.21	28.3	33.6	20:40	27.00	19.7	30.1
15:00	21.33	28.0	28.0	17:55	24.25	30.6	36.4	20:42	27.04	17.3	33.7
15:02	21.38	27.5	27.5	17:57	24.29	26.3	34.5	20:45	27.08	16.9	32.9
15:05	21.42	31.1	31.1	18:00	24.33	29.1	35.3	20:47	27.13	18.8	33.5
15:07	21.46	27.7	27.7	18:02	24.38	26.6	32.9	20:50	27.17	17.1	32.6
15:10	21.50	27.0	27.0	18:05	24.42	25.6	30.9	20:52	27.21	17.9	31.8
15:12	21.54	25.9	25.9	18:07	24.46	29.8	29.8	20:55	27.25	15.5	32.7
15:15	21.58	28.4	28.4	18:10	24.50	25.9	29.1	20:57	27.29	17.5	33.6
15:17	21.63	27.0	27.0	18:12	24.54	24.1	27.0	21:00	27.33	16.9	32.9
15:20	21.67	28.0	28.0	18:15	24.58	23.9	27.2	21:02	27.38	13.7	32.9
15:22	21.71	28.4	28.4	18:17	24.63	20.0	28.0	21:05	27.42	12.9	33.5
15:25	21.75	26.6	26.6	18:20	24.67	23.9	30.4	21:07	27.46	12.1	36.2
15:27	21.79	28.4	28.4	18:22	24.71	24.7	30.6	21:10	27.50	9.9	36.4
15:30	21.83	23.2	23.2	18:25	24.75	21.3	32.7	21:12	27.54	13.2	34.4
15:32	21.88	24.5	24.5	18:27	24.79	21.8	33.5	21:15	27.58	12.9	36.4
15:35	21.92	24.1	24.1	18:30	24.83	23.3	32.9	21:17	27.63	12.4	34.5
15:37	21.96	28.0	28.0	18:32	24.88	26.6	36.1	21:20	27.67	12.4	37.3

Annex 1.2 continued. Sequential vertical positions of Fish 1

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)
1-Jun-79				2-Jun-79			
21:22	27.71	9.8	35.5	0:10	30.50	12.4	34.5
21:25	27.75	10.6	37.0	0:12	30.54	11.7	30.8
21:27	27.79	10.6	37.0	0:15	30.58	10.3	35.3
21:30	27.83	9.9	33.5	0:17	30.63	10.1	34.4
21:32	27.88	9.6	34.5	0:20	30.67	9.9	33.5
21:35	27.92	11.9	32.6	0:22	30.71	7.7	36.9
21:37	27.96	13.4	32.2	0:25	30.75	11.2	36.1
21:40	28.00	10.6	30.4	0:27	30.79	11.0	35.3
21:42	28.04	10.3	32.2	0:30	30.83	11.7	30.8
21:45	28.08	9.6	31.8	0:32	30.88	15.0	33.2
21:47	28.13	9.4	30.9	0:35	30.92	20.6	33.7
21:50	28.17	13.7	29.8	0:37	30.96	18.0	31.8
21:52	28.21	10.5	29.8	0:40	31.00	21.4	34.5
21:55	28.25	10.5	29.8	0:42	31.04	24.1	32.0
21:57	28.29	10.1	31.4	0:45	31.08	24.4	37.9
22:00	28.33	10.1	28.4	0:47	31.13	24.4	34.5
22:02	28.38	12.9	27.7	0:50	31.17	26.0	33.2
22:05	28.42	12.9	27.7	0:52	31.21	28.4	31.8
22:07	28.46	12.6	29.8	0:55	31.25	31.8	35.3
22:10	28.50	18.0	28.4	0:57	31.29	30.2	33.9
22:12	28.54	15.0	29.6	1:00	31.33	31.8	31.8
22:15	28.58	15.2	29.0	1:02	31.38	35.3	35.3
22:17	28.63	18.4	32.7	1:05	31.42	35.3	35.3
22:20	28.67	19.3	31.4	1:07	31.46	32.5	32.5
22:22	28.71	16.6	32.2	1:10	31.50	33.7	33.7
22:25	28.75	19.7	32.2	1:15	31.58	30.4	30.4
22:27	28.79	16.2	31.4	1:20	31.67	27.5	32.6
22:30	28.83	18.8	33.5	1:22	31.71	29.1	32.2
22:32	28.88	15.2	31.8	1:25	31.75	27.2	27.2
22:35	28.92	17.5	30.9	1:27	31.79	30.4	30.4
22:37	28.96	14.8	33.6	1:30	31.83	26.6	26.6
22:40	29.00	12.4	34.5	1:32	31.88	29.8	29.8
22:42	29.04	15.2	31.8	1:35	31.92	25.9	25.9
22:45	29.08	15.5	32.7	1:37	31.96	25.9	25.9
22:47	29.13	15.5	32.7	1:40	32.00	27.0	27.0
22:50	29.17	15.2	31.8	1:45	32.08	28.3	28.3
22:52	29.21	15.2	31.8	1:47	32.13	24.7	24.7
22:55	29.25	15.2	31.8	1:50	32.17	26.3	29.0
22:57	29.29	13.2	31.4	1:52	32.21	27.0	27.0
23:00	29.33	13.9	30.4	1:55	32.25	23.9	23.9
23:02	29.38	14.5	31.8	1:57	32.29	26.6	26.6
23:05	29.42	12.9	30.6	2:00	32.33	29.0	29.0
23:07	29.46	14.5	31.8	2:02	32.38	28.3	28.3
23:10	29.50	12.9	30.6	2:05	32.42	29.8	29.8
23:12	29.54	11.9	30.1	2:07	32.46	27.7	27.7
23:15	29.58	12.9	30.6	2:10	32.50	30.6	30.6
23:17	29.63	13.4	32.2	2:12	32.54	32.5	32.5
23:20	29.67	12.9	30.6	2:15	32.58	33.2	33.2
23:22	29.71	12.4	31.8	2:17	32.63	29.8	29.8
23:25	29.75	13.2	31.4	2:20	32.67	29.0	29.0
23:27	29.79	15.2	31.8	2:22	32.71	29.8	29.8
23:30	29.83	14.1	31.7	2:25	32.75	29.6	29.6
23:32	29.88	14.5	31.8	2:27	32.79	30.4	30.4
23:35	29.92	12.2	28.6	2:30	32.83	30.6	30.6
23:37	29.96	10.5	32.9				
23:40	30.00	11.1	32.1				
23:42	30.04	12.9	30.6				
23:45	30.08	18.0	31.8				
23:47	30.13	17.9	31.8				
23:50	30.17	23.5	29.0				
23:52	30.21	21.4	31.8				
23:55	30.25	22.3	31.4				
23:57	30.29	15.2	31.8				
2-Jun-79							
0:00	30.33	13.9	30.4				
0:02	30.38	19.4	34.6				
0:05	30.42	16.6	32.2				
0:07	30.46	15.3	33.2				

*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)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
3-Jun-79				4-Jun-79				5-Jun-79			
17:45	0.00	52.140	1.911	9:30	15.75	52.150	1.911	1:15	31.50	52.195	1.991
18:00	0.25	52.140	1.912	9:45	16.00	52.150	1.911	1:30	31.75	52.192	1.993
18:15	0.50	52.140	1.911	10:00	16.25	52.150	1.911	1:45	32.00	52.190	1.997
18:30	0.75	52.140	1.911	10:15	16.50	52.150	1.911	2:00	32.25	52.187	1.998
18:45	1.00	52.140	1.909	10:30	16.75	52.150	1.910	2:15	32.50	52.183	2.000
19:00	1.25	52.140	1.909	10:45	17.00	52.150	1.911	2:30	32.75	52.179	2.002
19:15	1.50	52.140	1.907	11:00	17.25	52.150	1.912	2:45	33.00	52.175	2.001
19:30	1.75	52.140	1.907	11:15	17.50	52.150	1.911	3:00	33.25	52.170	2.001
20:00	2.25	52.140	1.901	11:30	17.75	52.150	1.911	7:45	38.00	52.168	2.004
20:15	2.50	52.140	1.904	11:45	18.00	52.150	1.911	8:00	38.25	52.168	2.003
20:30	2.75	52.143	1.902	12:00	18.25	52.150	1.912	8:15	38.50	52.171	2.004
20:45	3.00	52.143	1.902	12:15	18.50	52.150	1.911	9:00	39.25	52.169	2.004
21:00	3.25	52.143	1.903	12:30	18.75	52.150	1.911	9:45	40.00	52.168	2.004
21:15	3.50	52.143	1.904	12:45	19.00	52.150	1.911	10:00	40.25	52.169	2.003
21:30	3.75	52.143	1.902	13:00	19.25	52.149	1.911	10:15	40.50	52.168	2.004
21:45	4.00	52.147	1.900	13:15	19.50	52.150	1.909	10:30	40.75	52.168	2.002
22:00	4.25	52.151	1.899	13:30	19.75	52.150	1.912	19:00	49.25	52.168	2.002
22:15	4.50	52.157	1.894	13:45	20.00	52.150	1.912	19:15	49.50	52.168	2.003
22:30	4.75	52.161	1.897	14:00	20.25	52.150	1.912	19:30	49.75	52.168	2.004
22:45	5.00	52.163	1.902	14:15	20.50	52.150	1.911	19:45	50.00	52.168	2.002
23:00	5.25	52.167	1.906	14:30	20.75	52.150	1.912	20:30	50.75	52.168	2.005
23:15	5.50	52.171	1.908	14:45	21.00	52.150	1.912	20:45	51.00	52.169	2.009
23:30	5.75	52.173	1.911	15:00	21.25	52.150	1.912	21:00	51.25	52.172	2.016
23:45	5.53	52.176	1.910	15:15	21.50	52.150	1.911	21:15	51.50	52.173	2.020
4-Jun-79				15:30	21.75	52.150	1.909	21:30	51.75	52.176	2.027
0:00	6.25	52.178	1.907	15:45	22.00	52.149	1.910	21:45	52.00	52.180	2.032
0:15	6.50	52.178	1.908	16:00	22.25	52.149	1.911	22:00	52.25	52.183	2.037
0:30	6.75	52.178	1.910	16:15	22.50	52.149	1.911	22:15	52.50	52.188	2.044
0:45	7.00	52.177	1.909	16:30	22.75	52.149	1.911	22:30	52.75	52.191	2.049
1:00	7.25	52.177	1.911	16:45	23.00	52.149	1.911	22:45	53.00	52.196	2.057
1:15	7.50	52.177	1.909	17:00	23.25	52.149	1.910	23:00	53.25	52.198	2.063
1:30	7.75	52.177	1.908	17:15	23.50	52.149	1.911	23:15	53.50	52.202	2.065
1:45	8.00	52.178	1.904	17:30	23.75	52.150	1.909	23:30	53.75	52.211	2.068
2:00	8.25	52.173	1.909	17:45	24.00	52.149	1.910	23:45	54.00	52.215	2.071
2:15	8.50	52.167	1.910	18:00	24.25	52.149	1.911	6-Jun-79			
2:30	8.75	52.162	1.906	18:15	24.50	52.149	1.910	0:00	54.25	52.219	2.074
2:45	9.00	52.156	1.909	18:30	24.75	52.149	1.911				
3:00	9.25	52.154	1.909	18:45	25.00	52.149	1.911				
3:15	9.50	52.154	1.909	19:00	25.25	52.149	1.911				
3:30	9.75	52.151	1.911	19:15	25.50	52.149	1.911				
3:45	10.00	52.149	1.911	19:30	25.75	52.149	1.911				
4:00	10.25	52.150	1.911	19:45	26.00	52.149	1.911				
4:15	10.50	52.149	1.911	20:00	26.25	52.149	1.911				
4:30	10.75	52.150	1.911	20:15	26.50	52.149	1.910				
4:45	11.00	52.149	1.911	20:30	26.75	52.149	1.912				
5:00	11.25	52.149	1.911	20:45	27.00	52.150	1.911				
5:15	11.50	52.149	1.912	21:00	27.25	52.153	1.918				
5:30	11.75	52.150	1.911	21:15	27.50	52.156	1.923				
5:45	12.00	52.149	1.911	21:30	27.75	52.160	1.931				
6:00	12.25	52.149	1.911	21:45	28.00	52.164	1.937				
6:15	12.50	52.149	1.911	22:00	28.25	52.169	1.944				
6:30	12.75	52.150	1.912	22:15	28.50	52.173	1.948				
6:45	13.00	52.149	1.911	22:30	28.75	52.179	1.955				
7:00	13.25	52.150	1.911	22:45	29.00	52.183	1.959				
7:15	13.50	52.149	1.911	23:00	29.25	52.188	1.963				
7:30	13.75	52.150	1.911	23:15	29.50	52.191	1.971				
7:45	14.00	52.150	1.910	23:30	29.75	52.195	1.975				
8:00	14.25	52.150	1.910	23:45	30.00	52.196	1.976				
8:15	14.50	52.150	1.911	5-Jun-79							
8:30	14.75	52.150	1.911	0:00	30.25	52.196	1.979				
8:45	15.00	52.150	1.911	0:15	30.50	52.196	1.980				
9:00	15.25	52.150	1.913	0:45	31.00	52.196	1.983				
9:15	15.50	52.150	1.911	1:00	31.25	52.195	1.990				

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)	Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
3-Jun-79				3-Jun-79				3-Jun-79			
17:42	0.00	37.3	37.3	20:57	3.25	30.6	30.6	23:47	6.08	21.7	31.7
17:45	0.04	33.5	33.5	21:00	3.29	27.8	27.8	23:50	6.13	24.1	32.7
17:47	0.08	30.9	30.9	21:02	3.33	27.5	27.5	23:52	6.17	27.2	30.4
17:50	0.12	36.2	36.2	21:05	3.38	31.4	31.4	23:54	6.19	31.4	31.4
17:52	0.17	32.6	32.6	21:07	3.42	32.2	32.2	23:55	6.21	31.4	31.4
17:55	0.21	29.1	29.1	21:10	3.46	35.3	35.3	23:57	6.25	31.7	31.7
17:57	0.25	33.7	33.7	21:12	3.50	31.8	31.8	4-Jun-79			
18:00	0.29	32.7	32.7	21:15	3.54	33.3	33.3	0:00	<i>6.29</i>	<i>32.2</i>	<i>32.2</i>
18:02	0.33	32.6	32.6	21:17	3.58	32.0	32.0	0:02	6.33	33.2	33.2
18:05	0.38	30.6	30.6	21:20	3.63	29.1	29.1	0:05	6.38	30.4	30.4
18:07	0.42	29.0	29.0	21:22	3.67	33.7	33.7	0:07	6.42	38.4	38.4
18:10	0.46	30.4	30.4	21:25	3.71	29.6	29.6	0:10	<i>6.46</i>	<i>29.2</i>	<i>29.2</i>
18:12	0.50	31.8	31.8	21:27	3.75	30.2	30.2	0:12	6.50	30.6	30.6
18:15	0.54	30.6	30.6	21:30	3.79	30.6	30.6	0:15	6.54	32.1	32.1
18:17	0.58	28.4	28.4	21:35	3.88	31.7	31.7	0:17	6.58	31.4	31.4
18:20	0.62	29.1	29.1	21:37	3.92	29.8	29.8	0:20	6.63	31.1	31.1
18:22	0.67	31.8	31.8	21:40	3.96	28.3	28.3	0:22	6.67	32.9	32.9
18:25	0.71	30.4	30.4	21:42	4.00	25.9	25.9	0:25	6.71	32.7	32.7
18:27	0.75	29.6	29.6	21:45	4.04	29.6	29.6	0:27	6.75	33.7	33.7
18:30	0.79	30.2	30.2	<i>21:48</i>	<i>4.09</i>	<i>26.3</i>	<i>26.3</i>	0:30	6.79	31.8	31.8
18:32	0.83	35.3	35.3	21:50	4.13	30.0	30.0	0:35	6.88	38.4	38.4
18:35	0.87	31.1	31.1	21:52	4.17	30.1	30.1	0:37	6.92	29.1	29.1
18:45	1.04	35.3	35.3	21:55	4.21	27.7	27.7	0:40	6.96	27.7	27.7
18:52	1.17	31.4	31.4	22:00	4.29	27.2	27.2	0:42	7.00	31.4	31.4
19:00	1.29	32.6	32.6	22:02	4.33	27.0	27.0	0:45	7.04	33.5	33.5
19:05	1.38	30.8	30.8	<i>22:05</i>	<i>4.38</i>	<i>29.8</i>	<i>29.8</i>	0:47	7.08	28.4	28.4
19:07	1.42	33.7	33.7	22:07	4.42	26.6	31.0	0:50	7.13	30.4	30.4
19:10	1.46	30.4	30.4	22:10	4.46	29.0	31.0	0:52	7.17	33.5	33.5
19:12	1.50	32.9	32.9	22:12	4.50	26.9	29.0	0:55	7.21	30.6	30.6
19:15	1.54	31.4	31.4	22:15	4.54	25.9	30.7	0:57	7.25	32.2	32.2
19:17	1.58	31.1	31.1	22:17	4.58	27.4	32.1	1:00	7.29	29.8	29.8
19:20	1.63	34.5	34.5	22:20	4.63	24.2	29.2	1:02	7.33	36.1	36.1
19:22	1.67	34.5	34.5	22:22	4.67	24.9	28.4	1:05	7.38	30.8	30.8
19:25	1.71	33.7	33.7	<i>22:25</i>	<i>4.71</i>	<i>28.8</i>	<i>28.8</i>	1:07	7.42	34.5	34.5
19:30	1.79	29.6	29.6	22:27	4.75	27.7	30.6	1:10	7.46	32.9	32.9
19:32	1.83	28.4	28.4	22:30	4.79	23.9	33.7	1:12	7.50	29.1	29.1
19:35	1.88	31.4	31.4	22:32	4.83	21.3	32.7	1:15	7.54	31.4	31.4
19:37	1.92	31.1	31.1	22:35	4.88	20.7	31.8	1:17	7.58	32.9	32.9
19:40	1.96	31.8	31.8	22:37	4.92	27.2	30.4	1:20	7.63	31.1	31.1
19:50	2.13	33.2	33.2	22:40	4.96	27.0	30.8	1:22	7.67	31.8	31.8
19:52	2.17	33.5	33.5	22:42	5.00	27.2	30.4	1:25	7.71	32.5	32.5
19:55	2.21	33.5	33.5	22:45	5.04	25.9	29.1	1:27	7.75	31.8	31.8
19:57	2.25	26.6	26.6	<i>22:47</i>	<i>5.08</i>	<i>27.8</i>	<i>27.8</i>	1:30	7.79	33.6	33.6
20:00	2.29	29.0	29.0	22:50	5.13	24.9	30.1	1:32	7.83	33.6	33.6
20:05	2.38	31.8	31.8	22:52	5.17	22.9	30.9	1:35	7.88	33.5	33.5
20:07	2.42	31.4	31.4	22:55	5.21	26.0	33.2	1:37	7.92	30.4	30.4
20:10	2.46	27.8	27.8	22:57	5.25	20.4	28.6	1:40	7.96	29.0	29.0
20:12	2.50	31.1	31.1	23:00	5.29	21.0	27.8	1:42	8.00	30.8	30.8
20:15	2.54	29.1	29.1	23:02	5.33	22.8	32.2	1:45	8.04	31.1	31.1
20:17	2.58	30.4	30.4	23:05	5.38	18.8	27.7	1:47	8.08	30.4	30.4
20:20	2.63	30.6	30.6	23:07	5.42	18.3	29.0	<i>1:50</i>	<i>8.13</i>	<i>32.6</i>	<i>32.6</i>
20:22	2.67	30.1	30.1	23:10	5.46	14.7	29.0	<i>1:55</i>	<i>8.21</i>	<i>30.4</i>	<i>30.4</i>
20:25	2.71	27.0	27.0	23:12	5.50	19.7	32.2	<i>1:57</i>	<i>8.25</i>	<i>28.4</i>	<i>28.4</i>
20:27	2.75	31.8	31.8	23:15	5.54	27.8	31.1	2:00	8.29	21.4	31.8
20:30	2.79	32.9	32.9	23:17	5.58	24.1	28.0	2:01	8.32	31.8	31.8
20:32	2.83	27.5	27.5	23:19	5.61	30.9	30.9	2:02	8.33	28.4	31.4
20:35	2.88	27.0	27.0	23:20	5.63	30.9	30.9	2:05	8.38	27.4	34.4
20:37	2.92	29.6	29.6	23:25	5.71	31.0	33.0	2:07	8.42	23.1	32.5
20:40	2.96	28.0	28.0	23:27	5.75	22.8	32.2	2:10	8.46	23.3	23.3
20:42	3.00	32.5	32.5	23:30	5.79	29.1	33.3	2:12	8.50	19.4	23.2
20:45	3.04	32.5	32.5	23:35	5.88	19.8	31.0	2:15	8.54	17.6	24.4
20:47	3.08	36.0	36.0	23:37	5.92	26.6	33.2	2:17	8.58	19.2	26.7
20:50	3.13	31.1	31.1	23:41	5.98	27.5	32.6	2:20	8.63	23.5	28.3
20:52	3.17	31.8	31.8	23:42	6.00	27.2	37.0	2:22	8.67	24.7	24.7
20:55	3.21	29.1	29.1	23:45	6.04	24.7	33.5	2:25	8.71	20.1	26.6

Annex 1.4 continued. Sequential vertical positions of Fish 2

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)
4-Jun-79				4-Jun-79				4-Jun-79			
2:27	8.75	19.3	28.4	5:30	11.79	30.1	30.1	8:20	14.63	32.2	32.2
2:30	8.79	21.8	27.7	5:32	11.83	29.1	29.1	8:22	14.67	33.5	33.5
2:32	8.83	27.2	27.2	5:35	11.88	29.6	29.6	8:25	14.71	32.7	32.7
2:35	8.88	25.3	25.3	5:37	11.92	31.4	31.4	8:27	14.75	31.4	31.4
2:37	8.92	22.3	30.1	5:40	11.96	27.5	27.5	8:30	14.79	32.2	32.2
2:40	8.96	19.3	25.3	5:42	12.00	32.6	32.6	8:32	14.83	32.5	32.5
2:45	9.04	27.5	27.5	5:45	12.04	31.8	31.8	8:35	14.88	30.8	30.8
2:47	9.08	24.9	28.4	5:47	12.08	29.6	29.6	8:37	14.92	30.2	30.2
2:50	8.13	27.5	27.5	5:50	12.13	26.2	26.2	8:40	14.96	29.1	29.1
2:52	9.17	26.5	26.5	5:52	12.17	29.6	29.6	8:42	15.00	32.6	32.6
2:55	9.21	28.0	28.0	5:55	12.21	29.6	29.6	8:45	15.04	34.5	34.5
3:00	9.29	25.8	25.8	5:57	12.25	33.2	33.2	8:47	15.08	29.1	29.1
3:05	9.38	26.7	26.7	6:00	12.29	30.8	30.8	8:50	15.13	30.4	30.4
3:07	9.42	25.4	25.4	6:02	12.33	31.2	31.2	8:52	15.17	30.4	30.4
3:15	9.54	26.5	26.5	6:05	12.38	30.1	30.1	8:55	15.21	34.6	34.6
3:17	9.58	27.1	27.1	6:07	12.42	33.7	33.7	8:57	15.25	31.8	31.8
3:20	9.63	28.4	28.4	6:10	12.46	33.3	33.3	9:00	15.29	31.7	31.7
3:22	9.67	30.1	30.1	6:12	12.50	31.7	31.7	9:02	15.33	30.9	30.9
3:25	9.71	27.0	27.0	6:15	12.54	29.6	29.6	9:05	15.38	29.8	29.8
3:27	9.75	27.0	27.0	6:17	12.58	33.2	33.2	9:07	15.42	32.2	32.2
3:30	9.79	29.6	29.6	6:20	12.63	29.6	29.6	9:10	15.46	30.6	30.6
3:32	9.83	27.0	27.0	6:22	12.67	28.0	28.0	9:12	15.50	29.8	29.8
3:35	9.88	29.6	29.6	6:25	12.71	29.0	29.0	9:15	15.54	28.4	28.4
3:37	9.92	30.2	30.2	6:27	12.75	31.8	31.8	9:17	15.58	29.8	29.8
3:40	9.96	30.1	30.1	6:30	12.79	24.9	24.9	9:20	15.63	30.4	30.4
3:42	10.00	29.1	29.1	6:32	12.83	30.8	30.8	9:22	15.67	32.2	32.2
3:45	10.04	28.0	28.0	6:35	12.88	32.7	32.7	9:25	15.71	31.4	31.4
3:47	10.08	27.0	27.0	6:37	12.92	31.4	31.4	9:27	15.75	32.9	32.9
3:50	10.13	28.6	28.6	6:40	12.96	32.5	32.5	9:30	15.79	29.8	29.8
3:52	10.17	32.6	32.6	6:42	13.00	31.4	31.4	9:32	15.83	29.8	29.8
3:55	10.21	31.4	31.4	6:45	13.04	31.8	31.8	9:35	15.88	31.4	31.4
3:57	10.25	30.2	30.2	6:47	13.08	31.4	31.4	9:37	15.92	31.8	31.8
4:00	10.29	33.3	33.3	6:50	13.13	31.4	31.4	9:40	15.96	31.1	31.1
4:02	10.33	30.8	30.8	6:52	13.17	29.0	29.0	9:42	16.00	24.9	24.9
4:05	10.38	31.4	31.4	6:55	13.21	32.2	32.2	9:45	16.04	32.2	32.2
4:07	10.42	29.6	29.6	6:57	13.25	31.4	31.4	9:50	16.13	32.7	32.7
4:10	10.46	28.6	28.6	7:00	13.29	27.5	27.5	9:52	16.17	30.1	30.1
4:12	10.50	29.6	29.6	7:02	13.33	28.0	28.0	9:55	16.21	30.1	30.1
4:15	10.54	28.0	28.0	7:05	13.38	28.4	28.4	9:57	16.25	31.8	31.8
4:17	10.58	26.7	26.7	7:07	13.42	30.9	30.9	10:00	16.29	29.0	29.0
4:20	10.63	27.1	27.1	7:10	13.46	29.1	29.1	10:05	16.38	30.6	30.6
4:22	10.67	28.6	28.6	7:12	13.50	25.4	25.4	10:07	16.42	30.6	30.6
4:25	10.71	28.0	28.0	7:15	13.54	31.1	31.1	10:10	16.46	29.1	29.1
4:27	10.75	28.0	28.0	7:17	13.58	30.4	30.4	10:12	16.50	32.7	32.7
4:30	10.79	28.0	28.0	7:20	13.63	31.1	31.1	10:15	16.54	29.0	29.0
4:32	10.83	28.0	28.0	7:22	13.67	30.2	30.2	10:17	16.58	31.4	31.4
4:35	10.88	30.1	30.1	7:25	13.71	30.8	30.8	10:20	16.63	31.1	31.1
4:37	10.92	29.6	29.6	7:27	13.75	32.7	32.7	10:22	16.67	30.2	30.2
4:40	10.96	31.4	31.4	7:30	13.79	32.2	32.2	10:25	16.71	26.0	26.0
4:42	11.00	33.9	33.9	7:32	13.83	30.8	30.8	10:27	16.75	28.4	28.4
4:45	11.04	32.6	32.6	7:35	13.88	32.2	32.2	10:30	16.79	33.7	33.7
4:47	11.08	29.1	29.1	7:37	13.92	32.6	32.6	10:32	16.83	31.8	31.8
4:50	11.13	33.3	33.3	7:40	13.96	30.4	30.4	10:35	16.88	27.8	27.8
4:52	11.17	31.4	31.4	7:42	14.00	28.4	28.4	10:37	16.92	31.8	31.8
4:55	11.21	29.6	29.6	7:45	14.04	33.5	33.5	10:40	16.96	30.4	30.4
4:57	11.25	33.3	33.3	7:47	14.08	32.2	32.2	10:42	17.00	29.1	29.1
5:00	11.29	32.0	32.0	7:50	14.13	30.2	30.2	10:45	17.04	31.1	31.1
5:02	11.33	29.1	29.1	7:52	14.17	29.1	29.1	10:47	17.08	27.8	27.8
5:05	11.38	27.5	27.5	7:55	14.21	31.8	31.8	10:50	17.13	29.8	29.8
5:07	11.42	28.0	28.0	7:57	14.25	32.7	32.7	10:52	17.17	31.1	31.1
5:10	11.46	29.1	29.1	8:00	14.29	27.2	27.2	10:55	17.21	29.6	29.6
5:12	11.50	28.0	28.0	8:02	14.33	31.8	31.8	10:57	17.25	30.6	30.6
5:15	11.54	28.0	28.0	8:05	14.38	35.2	35.2	11:00	17.29	32.7	32.7
5:17	11.58	29.1	29.1	8:07	14.42	32.6	32.6	11:02	17.33	31.8	31.8
5:20	11.63	29.1	29.1	8:10	14.46	34.2	34.2	11:05	17.38	28.4	28.4
5:22	11.67	28.6	28.6	8:12	14.50	32.6	32.6	11:07	17.42	32.9	32.9
5:25	11.71	28.0	28.0	8:15	14.54	30.9	30.9	11:10	17.46	29.8	29.8
5:27	11.75	27.5	27.5	8:17	14.58	29.8	29.8	11:12	17.50	31.1	31.1

Annex 1.4 continued. Sequential vertical positions of Fish 2

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)
4-Jun-79				4-Jun-79				4-Jun-79			
11:15	17.54	28.4	28.4	14:05	20.38	30.2	30.2	16:57	23.25	28.4	28.4
11:17	17.58	32.7	32.7	14:07	20.42	28.6	28.6	17:00	23.29	29.0	29.0
11:20	17.63	33.5	33.5	14:10	20.46	28.4	28.4	17:02	23.33	31.1	31.1
11:22	17.67	32.5	32.5	14:12	20.50	24.9	24.9	17:05	23.38	29.8	29.8
11:25	17.71	31.8	31.8	14:15	20.54	25.4	25.4	17:07	23.42	28.4	28.4
11:27	17.75	29.8	29.8	14:17	20.58	26.3	26.3	17:10	23.46	25.3	25.3
11:30	17.79	29.8	29.8	14:20	20.63	29.0	29.0	17:12	23.50	29.8	29.8
11:32	17.83	33.7	33.7	14:22	20.67	30.1	30.1	17:15	23.54	30.7	30.7
11:35	17.88	29.8	29.8	14:25	20.71	31.4	31.4	17:17	23.58	30.6	30.6
11:37	17.92	29.8	29.8	14:30	20.79	30.4	30.4	17:20	23.63	31.4	31.4
11:40	17.96	28.3	28.3	14:32	20.83	27.2	27.2	17:22	23.67	33.7	33.7
11:42	18.00	30.6	30.6	14:35	20.88	22.7	22.7	17:25	23.71	31.8	31.8
11:45	18.04	32.6	32.6	14:37	20.92	27.0	27.0	17:27	23.75	30.1	30.1
11:47	18.08	34.5	34.5	14:40	20.96	30.4	30.4	17:30	23.79	29.2	29.2
11:50	18.13	31.4	31.4	14:42	21.00	25.4	25.4	17:32	23.83	27.7	27.7
11:52	18.17	29.1	29.1	14:45	21.04	28.6	28.6	17:35	23.88	24.7	24.7
11:55	18.21	28.4	28.4	14:47	21.08	31.4	31.4	17:37	23.92	28.3	28.3
11:57	18.25	30.1	30.1	14:50	21.13	29.6	29.6	17:40	23.96	30.9	30.9
12:00	18.29	28.3	28.3	14:52	21.17	26.0	26.0	17:42	24.00	30.6	30.6
12:02	18.33	27.7	27.7	14:55	21.21	27.5	27.5	17:45	24.04	32.6	32.6
12:05	18.38	29.1	29.1	14:57	21.25	28.6	28.6	17:47	24.08	33.7	33.7
12:07	18.42	29.0	29.0	15:00	21.29	26.0	26.0	17:50	24.13	30.7	30.7
12:10	18.46	31.8	31.8	15:02	21.33	29.0	29.0	17:52	24.17	28.3	28.3
12:12	18.50	28.4	28.4	15:05	21.38	29.0	29.0	17:55	24.21	31.4	31.4
12:15	18.54	31.8	31.8	15:07	21.42	26.5	26.5	17:57	24.25	29.1	29.1
12:17	18.58	30.1	30.1	15:10	21.46	28.0	28.0	18:00	24.29	30.1	30.1
12:20	18.63	32.6	32.6	15:12	21.50	27.0	27.0	18:02	24.33	27.5	27.5
12:22	18.67	31.8	31.8	15:15	21.54	31.8	31.8	18:05	24.38	30.6	30.6
12:25	18.71	29.8	29.8	15:17	21.58	27.2	27.2	18:07	24.42	29.1	29.1
12:27	18.75	30.1	30.1	15:20	21.63	27.8	27.8	18:10	24.46	26.7	26.7
12:30	18.79	29.2	29.2	15:22	21.67	30.6	30.6	18:12	24.50	29.0	29.0
12:32	18.83	29.2	29.2	15:25	21.71	27.8	27.8	18:15	24.54	30.4	30.4
12:35	18.88	24.7	24.7	15:27	21.75	24.1	24.1	18:17	24.58	29.2	29.2
12:37	18.92	27.7	27.7	15:30	21.79	25.4	25.4	18:20	24.63	31.0	31.0
12:40	18.96	29.8	29.8	15:32	21.83	27.5	27.5	18:22	24.67	30.6	30.6
12:42	19.00	29.0	29.0	15:35	21.88	31.4	31.4	18:25	24.71	27.7	27.7
12:45	19.04	26.3	26.3	15:37	21.92	30.2	30.2	18:27	24.75	28.3	28.3
12:47	19.08	24.7	24.7	15:40	21.96	26.0	26.0	18:30	24.79	28.8	28.8
12:50	19.13	24.1	24.1	15:42	22.00	23.5	23.5	18:32	24.83	31.0	31.0
12:52	19.17	29.2	29.2	15:45	22.04	28.4	28.4	18:35	24.88	31.8	31.8
12:55	19.21	30.7	30.7	15:47	22.08	29.0	29.0	18:37	24.92	31.8	31.8
12:57	19.25	30.9	30.9	15:50	22.13	33.2	33.2	18:40	24.96	33.2	33.2
13:00	19.29	26.6	26.6	15:52	22.17	27.5	27.5	18:42	25.00	32.6	32.6
13:02	19.33	28.4	28.4	15:55	22.21	26.0	26.0	18:45	25.04	33.1	33.1
13:05	19.38	31.0	31.0	15:57	22.25	29.0	29.0	18:47	25.08	29.0	29.0
13:07	19.42	30.7	30.7	16:00	22.29	27.8	27.8	18:50	25.13	30.1	30.1
13:10	19.46	28.4	28.4	16:02	22.33	28.4	28.4	18:52	25.17	29.0	29.0
13:12	19.50	28.4	28.4	16:05	22.38	28.4	28.4	18:55	25.21	29.1	29.1
13:15	19.54	27.7	27.7	16:07	22.42	27.8	27.8	18:57	25.25	29.2	29.2
13:17	19.58	27.7	27.7	16:10	22.46	28.4	28.4	19:00	25.29	30.7	30.7
13:20	19.63	27.2	27.2	16:12	22.50	25.4	25.4	19:02	25.33	30.6	30.6
13:22	19.67	25.9	25.9	16:15	22.54	27.8	27.8	19:05	25.38	29.8	29.8
13:25	19.71	25.9	25.9	16:17	22.58	27.8	27.8	19:07	25.42	30.1	30.1
13:27	19.75	27.0	27.0	16:20	22.63	27.8	27.8	19:10	25.46	30.1	30.1
13:30	19.79	23.9	23.9	16:22	22.67	33.2	33.2	19:12	25.50	30.9	30.9
13:32	19.83	29.0	29.0	16:25	22.71	30.8	30.8	19:15	25.54	30.9	30.9
13:35	19.88	27.2	27.2	16:27	22.75	26.5	26.5	19:17	25.58	30.6	30.6
13:37	19.92	24.4	24.4	16:30	22.79	27.5	27.5	19:20	25.63	29.2	29.2
13:40	19.96	27.0	27.0	16:32	22.83	26.0	26.0	19:22	25.67	30.6	30.6
13:42	20.00	29.1	29.1	16:35	22.88	28.4	28.4	19:25	25.71	30.4	30.4
13:45	20.04	30.1	30.1	16:37	22.92	28.4	28.4	19:27	25.75	30.6	30.6
13:47	20.08	30.1	30.1	16:40	22.96	30.6	30.6	19:30	25.79	30.1	30.1
13:50	20.13	25.9	25.9	16:42	23.00	31.4	31.4	19:32	25.83	30.1	30.1
13:52	20.17	21.9	21.9	16:45	23.04	30.4	30.4	19:35	25.88	29.8	29.8
13:55	20.21	25.3	25.3	16:47	23.08	29.8	29.8	19:37	25.92	30.6	30.6
13:57	20.25	29.2	29.2	16:50	23.13	26.3	26.3	19:40	25.96	30.1	30.1
14:00	20.29	30.7	30.7	16:52	23.17	31.8	31.8	19:45	26.04	30.1	30.1
14:02	20.33	34.4	34.4	16:55	23.21	25.9	25.9	19:47	26.08	30.1	30.1

Annex 1.4 continued. Sequential vertical positions of Fish 2

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)
4-Jun-79				4-Jun-79				5-Jun-79			
19:50	26.13	29.0	29.0	22:47	29.08	18.6	29.0	1:45	32.04	30.1	42.8
19:52	26.17	30.6	30.6	22:50	29.13	13.8	30.7	1:50	32.13	15.2	29.0
19:55	26.21	30.6	30.6	22:52	29.17	13.7	29.8	1:52	32.17	12.4	26.3
19:57	26.25	32.7	32.7	22:55	29.21	10.1	28.4	1:55	32.21	13.9	27.2
20:00	26.29	31.8	31.8	22:57	29.25	11.3	33.1	1:57	32.25	10.6	27.2
20:05	26.38	33.1	33.1	23:00	29.29	14.2	31.1	2:00	32.29	15.9	30.6
20:07	26.42	34.5	34.5	23:02	29.33	11.0	28.4	2:02	32.33	15.2	31.8
20:10	26.46	31.4	31.4	23:05	29.38	12.9	30.6	2:05	32.38	22.3	28.4
20:12	26.50	33.6	33.6	23:07	29.42	16.2	30.7	2:07	32.42	20.6	30.4
20:15	26.54	30.4	30.4	23:10	29.46	17.1	32.6	2:10	32.46	19.3	28.4
20:17	26.58	30.4	30.4	23:12	29.50	22.1	31.0	2:12	32.50	15.2	29.0
20:20	26.63	34.5	34.5	23:15	29.54	17.3	33.7	2:15	32.54	12.4	26.3
20:25	26.71	27.7	27.7	23:17	29.58	15.9	30.6	2:17	32.58	10.1	25.3
20:27	26.75	27.8	27.8	23:20	29.63	27.5	35.2	2:20	32.63	10.6	27.2
20:30	26.79	29.8	29.8	23:22	29.67	14.5	30.1	2:22	32.67	9.4	28.3
20:35	26.88	29.6	29.6	23:25	29.71	15.2	31.8	2:25	32.71	17.1	30.1
20:37	26.92	30.4	30.4	23:27	29.75	13.2	31.4	2:27	32.75	18.8	30.6
20:40	26.96	31.1	31.1	23:30	29.79	25.1	32.1	2:30	32.79	20.6	30.4
20:42	27.00	31.8	31.8	23:32	29.83	29.1	29.1	2:32	32.83	24.9	28.4
20:45	27.04	31.4	31.4	23:33	29.85	24.9	29.1	2:35	32.88	23.5	26.3
20:47	27.08	25.9	33.1	23:35	29.88	24.1	28.0	2:37	32.92	17.9	26.3
20:50	27.13	19.7	30.1	23:37	29.92	24.7	30.6	2:40	32.96	19.3	25.3
20:52	27.17	17.9	29.0	23:38	29.93	30.6	30.6	2:42	33.00	18.4	27.0
20:55	27.21	21.7	29.2	23:40	29.96	29.0	29.0	2:45	33.04	24.1	29.8
20:57	27.25	27.0	29.8	23:42	30.00	29.6	29.6	2:47	33.08	20.7	29.0
21:00	27.29	21.0	31.1	23:45	30.04	31.1	31.1	2:50	33.13	25.3	28.4
21:02	27.33	24.9	32.6	23:47	30.08	30.4	30.4	2:52	33.17	16.6	25.9
21:05	27.38	26.3	31.8	23:52	30.17	31.1	31.1	2:55	33.21	26.3	26.3
21:07	27.42	21.8	33.5	23:55	30.21	31.1	31.1	2:57	33.25	22.9	28.3
21:10	27.46	27.0	32.7	23:57	30.25	31.8	31.8	3:00	33.29	21.3	24.1
21:12	27.50	21.8	36.4	5-Jun-79				3:02	33.33	21.8	24.7
21:15	27.54	20.6	33.7	0:00	30.29	32.2	32.2	7:52	38.17	28.3	28.3
21:17	27.58	17.1	36.4	0:02	30.33	30.4	30.4	7:55	38.21	31.7	31.7
21:20	27.63	16.5	39.1	0:05	30.38	27.2	27.2	7:57	38.25	31.4	31.4
21:22	27.67	15.5	35.5	0:07	30.42	32.2	32.2	8:00	38.29	32.6	32.6
21:25	27.71	20.6	33.7	0:10	30.46	28.4	28.4	8:02	38.33	32.6	32.6
21:27	27.75	22.3	34.4	0:12	30.50	30.4	30.4	8:05	38.38	30.1	30.1
21:30	27.79	27.0	35.5	0:15	30.54	31.8	31.8	8:15	38.54	24.9	24.9
21:32	27.83	27.0	35.5	0:17	30.58	31.8	31.8	8:22	38.67	24.4	24.4
21:35	27.88	25.3	37.4	0:20	30.63	31.4	31.4	8:25	38.71	16.5	16.5
21:37	27.92	32.7	38.3	0:22	30.67	29.1	29.1	8:27	38.75	25.4	25.4
21:40	27.96	29.2	39.1	0:25	30.71	29.0	29.0	8:30	38.79	26.0	26.0
21:42	28.00	26.6	35.5	0:42	31.00	24.7	30.6	8:32	38.83	26.5	26.5
21:45	28.04	30.6	36.4	0:45	31.04	21.9	32.5	8:35	38.88	26.5	26.5
21:47	28.08	29.1	35.3	0:47	31.08	21.3	32.7	8:37	38.92	24.5	24.5
21:50	28.13	24.9	37.7	0:50	31.13	19.3	31.4	8:40	38.96	29.0	29.0
21:52	28.17	20.2	36.2	0:52	31.17	19.7	31.4	8:42	39.00	28.4	28.4
21:55	28.21	21.3	35.5	0:55	31.21	24.1	28.0	8:45	39.04	28.0	28.0
21:57	28.25	28.3	35.5	0:56	31.23	28.0	28.0	8:47	39.08	31.2	31.2
22:00	28.29	21.3	32.7	0:57	31.25	29.8	29.8	9:00	39.29	33.7	33.7
22:02	28.33	21.4	35.3	1:00	31.29	29.0	31.8	9:15	39.54	27.2	27.2
22:05	28.38	24.4	41.2	1:02	31.33	25.3	31.4	9:20	39.63	26.0	26.0
22:07	28.42	23.5	35.5	1:05	31.38	22.3	34.4	9:23	39.68	31.4	31.4
22:10	28.46	38.3	38.3	1:07	31.42	17.3	30.4	9:27	39.75	30.2	30.2
22:12	28.50	29.8	38.3	1:10	31.46	18.7	33.2	9:30	39.79	30.8	30.8
22:15	28.54	19.7	35.3	1:12	31.50	14.5	28.4	9:32	39.83	30.8	30.8
22:17	28.58	23.2	38.4	1:15	31.54	12.9	30.6	9:35	39.88	30.2	30.2
22:20	28.63	22.7	33.9	1:17	31.58	14.5	30.1	9:37	39.92	30.2	30.2
22:22	28.67	22.8	35.3	1:20	31.63	12.4	29.0	9:40	39.96	30.2	30.2
22:25	28.71	18.4	32.7	1:22	31.67	12.4	31.8	9:42	40.00	29.6	29.6
22:27	28.75	30.9	30.9	1:25	31.71	12.9	30.6	9:45	40.04	29.6	29.6
22:30	28.79	22.9	30.9	1:27	31.75	12.9	30.6	9:47	40.08	28.4	28.4
22:32	28.83	22.3	31.4	1:30	31.79	15.2	31.8	9:52	40.17	27.8	27.8
22:35	28.88	18.0	28.4	1:32	31.83	16.2	28.4	9:55	40.21	27.8	27.8
22:37	28.92	18.0	28.4	1:35	31.88	19.7	32.2	9:57	40.25	25.4	25.4
22:40	28.96	18.8	30.6	1:37	31.92	18.3	29.0	10:00	40.29	27.5	27.5
22:42	29.00	14.8	30.9	1:40	31.96	19.0	26.5	10:02	40.33	29.1	29.1
22:45	29.04	30.9	30.9	1:42	32.00	18.7	29.6	10:05	40.38	27.5	27.5

Annex 1.4 continued. Sequential vertical positions of Fish 2

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)
5-Jun-79				5-Jun-79			
10:07	40.42	31.1	31.1	22:10	52.46	28.3	36.2
10:10	40.46	32.2	32.2	22:12	52.50	24.7	36.4
10:12	40.50	31.1	31.1	22:15	52.54	30.9	33.6
10:15	40.54	29.1	29.1	22:17	52.58	24.1	35.5
10:17	40.58	30.6	30.6	22:20	52.63	21.9	36.1
10:20	40.63	31.8	31.8	22:22	52.67	24.7	33.5
10:25	40.71	32.2	32.2	22:25	52.71	26.3	37.3
10:30	40.79	31.8	31.8	22:27	52.75	30.9	36.2
19:00	49.29	32.5	32.5	22:30	52.79	31.1	34.5
19:02	49.33	33.7	33.7	22:32	52.83	26.0	29.6
19:07	49.42	33.3	33.3	22:35	52.88	29.8	29.8
19:10	49.46	29.6	29.6	22:37	52.92	30.9	36.2
19:12	49.50	26.6	26.6	22:40	52.96	29.0	37.3
19:15	49.54	30.2	30.2	22:42	53.00	31.4	40.4
19:17	49.58	29.1	29.1	22:45	53.04	30.6	39.3
19:20	49.63	25.4	25.4	22:47	53.08	31.4	37.4
19:22	49.67	27.5	27.5	22:50	53.13	28.4	37.4
19:25	49.71	27.2	27.2	22:52	53.17	32.7	38.3
19:27	49.75	29.0	29.0	22:55	53.21	29.8	36.1
19:30	49.79	27.5	27.5	22:57	53.25	35.2	40.3
19:35	49.88	26.6	26.6	23:00	53.29	31.4	40.4
19:42	50.00	31.7	31.7	23:02	53.33	38.1	36.1
19:45	50.04	34.5	34.5	23:05	53.38	32.7	41.1
19:47	50.08	30.8	30.8	23:07	53.42	31.8	40.0
19:50	50.13	30.4	30.4	23:10	53.46	33.7	37.0
20:22	50.67	20.4	20.4	23:12	53.50	31.8	40.0
20:25	50.71	26.0	26.0	23:15	53.54	38.4	47.6
20:27	50.75	21.9	21.9	23:17	53.58	31.0	37.7
20:30	50.79	22.7	22.7	23:20	53.63	41.4	44.5
20:35	50.88	24.9	24.9	23:22	53.67	37.9	41.2
20:45	51.04	31.0	31.0	23:25	53.71	33.7	37.0
20:47	51.08	25.4	29.0	23:27	53.75	35.5	35.5
20:50	51.13	29.0	29.0	23:30	53.79	32.1	36.7
20:52	51.17	27.5	30.1	23:32	53.83	31.1	31.1
20:55	51.21	29.1	29.1	23:35	53.88	31.8	31.8
20:57	51.25	26.5	30.2	23:37	53.92	30.6	33.5
21:00	51.29	27.2	30.4	23:40	53.96	29.2	31.7
21:02	51.33	25.9	29.1	23:42	54.00	29.1	35.3
21:05	51.38	25.9	29.1	23:45	54.04	27.7	33.5
21:07	51.42	27.2	27.2	23:47	54.08	29.8	32.7
21:10	51.46	24.9	31.8	23:50	54.13	27.2	33.7
21:12	51.50	25.4	32.5	23:52	54.17	30.1	32.6
21:15	51.54	24.9	28.4	23:55	54.21	35.3	38.4
21:17	51.58	21.4	28.4	23:57	54.25	31.4	31.4
21:20	51.63	27.2	33.7	6-Jun-79			
21:22	51.67	26.6	32.9	0:00	54.29	31.4	40.4
21:25	51.71	25.9	35.3				
21:27	51.75	24.7	36.4				
21:30	51.79	24.1	35.5				
21:32	51.83	22.8	35.3				
21:34	51.87	29.0	32.5				
21:35	51.88	29.0	32.5				
21:37	51.92	26.6	36.1				
21:40	51.96	29.8	32.7				
21:42	52.00	29.8	35.5				
21:43	52.01	35.5	35.5				
21:45	52.04	31.4	34.4				
21:47	52.08	25.3	34.4				
21:50	52.13	27.0	32.7				
21:52	52.16	27.0	35.5				
21:52	52.17	27.7	33.5				
21:55	52.21	31.4	31.4				
21:57	52.25	27.0	35.5				
22:00	52.29	30.9	33.6				
22:02	52.33	30.1	32.6				
22:05	52.38	32.2	35.3				
22:06	52.40	35.3	35.3				
22:07	52.42	29.8	32.7				

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)
23-May-80				24-May-80				25-May-80			
17:00	0.00	52.140	1.846	10:15	17.25	52.233	1.907	4:15	35.25	52.330	2.084
17:15	0.25	52.136	1.845	10:30	17.50	52.234	1.906	4:30	35.50	52.324	2.086
17:30	0.50	52.135	1.847	10:45	17.75	52.234	1.907	4:45	35.75	52.318	2.088
17:45	0.75	52.134	1.846	11:00	18.00	52.233	1.907	5:00	36.00	52.311	2.089
18:00	1.00	52.135	1.848	11:15	18.25	52.234	1.907	5:15	36.25	52.304	2.087
18:30	1.50	52.134	1.850	11:30	18.50	52.234	1.908	5:30	36.50	52.297	2.082
18:45	1.75	52.135	1.852	11:45	18.75	52.234	1.907	5:45	36.75	52.292	2.076
19:00	2.00	52.136	1.854	12:00	19.00	52.234	1.907	6:00	37.00	52.287	2.071
19:15	2.25	52.137	1.856	12:15	19.25	52.234	1.908	6:15	37.25	52.282	2.068
19:30	2.50	52.137	1.858	12:30	19.50	52.234	1.907	6:30	37.50	52.277	2.061
19:45	2.75	52.137	1.860	12:45	19.75	52.234	1.906	6:45	37.75	52.272	2.056
20:00	3.00	52.136	1.861	13:00	20.00	52.234	1.908	7:00	38.00	52.268	2.052
21:00	4.00	52.142	1.865	13:30	20.50	52.233	1.908	7:15	38.25	52.267	2.051
21:15	4.25	52.149	1.870	14:22	21.37	52.233	1.909	7:30	38.50	52.267	2.051
21:30	4.50	52.157	1.870	14:30	21.50	52.234	1.908	7:45	38.75	52.266	2.052
21:45	4.75	52.165	1.874	15:15	22.25	52.234	1.907	8:00	39.00	52.266	2.052
22:00	5.00	52.173	1.879	15:30	22.50	52.234	1.908	8:15	39.25	52.266	2.052
22:15	5.25	52.180	1.885	15:45	22.75	52.234	1.907	8:30	39.50	52.266	2.052
22:30	5.50	52.187	1.885	16:00	23.00	52.234	1.908	8:45	39.75	52.266	2.053
22:45	5.75	52.193	1.891	16:45	23.75	52.232	1.909	9:00	40.00	52.266	2.052
23:00	6.00	52.199	1.894	17:00	24.00	52.232	1.909	9:15	40.25	52.266	2.053
23:15	6.25	52.206	1.895	17:15	24.25	52.232	1.909	9:30	40.50	52.266	2.053
23:30	6.50	52.212	1.893	17:30	24.50	52.232	1.909	9:45	40.75	52.266	2.052
23:45	6.75	52.217	1.895	17:45	24.75	52.232	1.908	10:00	41.00	52.266	2.051
24-May-80				18:00	25.00	52.232	1.909	10:15	41.25	52.266	2.051
0:00	7.00	52.223	1.899	18:15	25.25	52.233	1.908	10:30	41.50	52.266	2.052
0:17	7.29	52.228	1.899	18:30	25.50	52.233	1.908	10:45	41.75	52.267	2.051
0:30	7.50	52.232	1.902	18:45	25.75	52.233	1.909	11:00	42.00	52.266	2.051
0:45	7.75	52.237	1.897	19:00	26.00	52.232	1.909	11:15	42.25	52.266	2.051
1:00	8.00	52.240	1.897	19:15	26.25	52.232	1.909	11:30	42.50	52.266	2.053
1:15	8.25	52.243	1.902	19:30	26.50	52.233	1.909	11:45	42.75	52.266	2.051
1:30	8.50	52.244	1.901	19:45	26.75	52.232	1.909	12:00	43.00	52.266	2.052
1:45	8.75	52.244	1.901	20:00	27.00	52.233	1.909	12:15	43.25	52.265	2.050
2:15	9.25	52.243	1.904	20:15	27.25	52.232	1.910	12:30	43.50	52.266	2.051
2:30	9.50	52.242	1.906	20:30	27.50	52.232	1.908	12:45	43.75	52.266	2.052
3:15	10.25	52.235	1.904	21:15	28.25	52.237	1.916	13:00	44.00	52.266	2.052
3:30	10.50	52.235	1.904	21:30	28.50	52.242	1.920	13:15	44.25	52.266	2.051
3:45	10.75	52.234	1.905	21:45	28.75	52.247	1.925	13:30	44.50	52.266	2.051
4:00	11.00	52.234	1.905	22:00	29.00	52.254	1.936	13:45	44.75	52.266	2.052
4:15	11.25	52.234	1.906	22:15	29.25	52.260	1.939	14:00	45.00	52.266	2.052
4:30	11.50	52.235	1.906	22:30	29.50	52.267	1.947	14:30	45.50	52.266	2.052
4:45	11.75	52.233	1.906	22:45	29.75	52.274	1.956	14:45	45.75	52.266	2.051
5:00	12.00	52.233	1.906	23:00	30.00	52.281	1.961	15:00	46.00	52.267	2.051
5:15	12.25	52.233	1.906	23:15	30.25	52.287	1.969	15:15	46.25	52.266	2.052
5:30	12.50	52.234	1.907	23:30	30.50	52.293	1.974	15:30	46.50	52.266	2.051
5:45	12.75	52.233	1.906	23:45	30.75	52.300	1.983	15:45	46.75	52.267	2.049
6:00	13.00	52.233	1.907	25-May-80				16:00	47.00	52.268	2.045
6:15	13.25	52.233	1.907	0:00	31.00	52.305	1.990	16:15	47.25	52.268	2.040
6:30	13.50	52.233	1.907	0:15	31.25	52.311	2.001	16:30	47.50	52.269	2.037
6:45	13.75	52.233	1.907	0:45	31.75	52.321	2.006	16:45	47.75	52.268	2.034
7:00	14.00	52.233	1.908	1:00	32.00	52.328	2.014	17:00	48.00	52.268	2.031
7:15	14.25	52.234	1.907	1:15	32.25	52.332	2.023	17:15	48.25	52.268	2.029
7:30	14.50	52.234	1.907	1:30	32.50	52.337	2.032	17:30	48.50	52.267	2.027
7:45	14.75	52.233	1.907	1:45	32.75	52.340	2.037	17:45	48.75	52.268	2.026
8:00	15.00	52.233	1.908	2:00	33.00	52.346	2.050	18:00	49.00	52.268	2.026
8:15	15.25	52.233	1.907	2:15	33.25	52.345	2.049	18:15	49.25	52.268	2.025
8:30	15.50	52.233	1.907	2:30	33.50	52.347	2.057	18:30	49.50	52.268	2.026
8:45	15.75	52.233	1.907	2:45	33.75	52.346	2.058	18:45	49.75	52.267	2.024
9:00	16.00	52.233	1.907	3:00	34.00	52.345	2.062	19:00	50.00	52.263	2.022
9:15	16.25	52.233	1.907	3:15	34.25	52.345	2.067				
9:30	16.50	52.235	1.900	3:30	34.50	52.342	2.071				
9:45	16.75	52.234	1.908	3:45	34.75	52.339	2.075				
10:00	17.00	52.234	1.905	4:00	35.00	52.335	2.081				

*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)
23-May-80				23-May-80				24-May-80			
17:00	0.00	4.0	30.4	21:50	4.83	13.1	31.0	0:35	7.58	7.0	30.6
17:05	0.08	4.0	31.2	21:52	4.88	9.1	31.7	0:37	7.63	13.9	33.7
17:07	0.12	4.0	30.6	21:55	4.92	7.7	29.6	0:40	7.67	10.6	33.7
17:10	0.17	4.0	31.8	21:57	4.96	8.4	34.5	0:42	7.71	7.3	33.7
17:12	0.21	4.0	28.4	22:00	5.00	12.7	34.5	0:45	7.75	10.6	33.7
17:15	0.25	4.0	28.4	22:02	5.04	11.0	35.3	0:47	7.79	7.3	33.7
17:17	0.29	8.4	32.1	22:05	5.08	7.7	29.6	0:50	7.83	7.5	35.3
17:20	0.33	4.0	27.9	22:07	5.13	15.5	34.6	0:52	7.88	7.3	33.7
17:22	0.38	7.5	31.8	22:10	5.17	9.6	31.8	0:55	7.92	7.4	34.5
17:25	0.42	8.7	32.2	22:12	5.21	9.9	24.7	0:57	7.96	7.5	35.3
17:27	0.46	4.0	33.7	22:15	5.25	15.0	33.2	1:00	8.00	7.6	36.1
17:30	0.50	10.6	30.4	22:17	5.29	7.9	31.4	1:02	8.04	7.7	36.9
17:32	0.54	4.0	30.7	22:20	5.33	11.7	30.8	1:05	8.08	7.6	32.5
17:35	0.58	7.6	32.5	22:22	5.38	11.3	33.2	1:07	8.13	7.7	33.2
17:37	0.62	6.5	31.7	22:25	5.42	11.7	30.8	1:10	8.17	7.8	38.4
17:40	0.67	7.0	33.5	22:27	5.46	7.9	31.4	1:12	8.21	7.7	36.9
17:42	0.71	10.6	30.4	22:30	5.50	8.0	32.0	1:15	8.25	10.8	34.5
17:45	0.75	6.9	32.7	22:32	5.54	8.4	34.5	1:17	8.29	7.8	42.2
17:47	0.79	12.1	33.6	22:35	5.58	7.8	30.8	1:20	8.33	6.8	34.5
17:50	0.83	5.4	16.5	22:37	5.63	7.1	32.2	1:22	8.38	7.3	37.0
17:52	0.87	7.8	33.9	22:40	5.67	10.6	30.4	1:25	8.42	7.7	44.1
17:55	0.92	7.7	33.2	22:42	5.71	13.4	32.2	1:27	8.46	7.9	35.3
17:57	0.96	6.6	32.6	22:45	5.75	12.4	34.5	1:30	8.50	7.9	35.3
18:00	1.00	8.0	55.7	22:47	5.79	10.6	30.4	1:32	8.54	11.9	35.3
18:02	1.04	7.6	32.5	22:50	5.83	12.7	25.8	1:35	8.58	25.4	33.9
18:05	1.08	8.4	30.1	22:52	5.88	14.1	34.3	1:36	8.61	33.9	33.9
18:07	1.13	12.4	31.8	22:55	5.92	16.0	32.0	1:37	8.63	32.0	36.0
18:10	1.17	14.9	32.1	22:57	5.96	17.6	31.2	1:40	8.67	15.8	20.5
18:12	1.21	32.2	32.2	23:00	6.00	12.4	29.1	1:42	8.71	17.1	34.5
18:15	1.25	12.4	12.4	23:02	6.04	13.7	29.8	1:45	8.75	12.4	33.3
18:17	1.29	32.2	32.2	23:05	6.08	10.1	34.4	1:47	8.79	12.0	32.0
18:20	1.33	35.1	35.1	23:07	6.13	10.8	34.5	1:50	8.83	8.0	32.0
18:22	1.38	30.8	30.8	23:10	6.17	7.5	31.8	1:52	8.88	8.2	33.3
18:25	1.42	29.0	29.0	23:12	6.21	7.8	33.9	1:55	8.92	8.1	32.6
18:30	1.50	35.5	35.5	23:15	6.25	7.9	31.4	1:57	8.96	8.1	32.6
18:45	1.75	32.6	32.6	23:17	6.29	7.7	33.2	2:00	9.00	8.4	34.5
18:50	1.83	30.4	30.4	23:20	6.33	7.8	33.9	2:02	9.04	12.7	34.5
18:55	1.92	34.6	34.6	23:22	6.38	7.7	33.2	2:05	9.08	13.1	31.2
19:00	2.00	33.0	33.0	23:25	6.42	7.3	37.0	2:07	9.13	12.7	34.5
19:15	2.25	29.1	29.1	23:27	6.46	10.1	34.4	2:10	9.17	12.4	33.3
19:30	2.50	27.0	27.0	23:30	6.50	7.2	36.1	2:12	9.21	12.4	33.3
19:45	2.75	32.6	32.6	23:32	6.54	11.0	31.8	2:15	9.25	12.4	33.3
19:55	2.92	38.9	38.9	23:35	6.58	8.0	36.0	2:17	9.29	12.4	37.4
20:00	3.00	25.3	25.3	23:37	6.63	7.6	32.5	2:20	9.33	12.7	34.5
21:00	4.00	17.6	31.2	23:40	6.67	7.0	30.6	2:22	9.38	17.1	34.5
21:01	4.02	11.2	32.5	23:42	6.71	7.1	32.2	2:25	9.42	18.1	36.9
21:02	4.04	15.5	30.8	23:45	6.75	7.6	32.5	2:27	9.46	18.9	33.8
21:05	4.08	14.1	34.3	23:47	6.79	7.9	31.4	2:30	9.50	18.1	32.2
21:07	4.13	15.5	32.8	23:50	6.83	8.2	29.1	2:32	9.54	18.1	36.9
21:10	4.17	13.1	31.2	23:52	6.88	8.2	29.1	2:35	9.58	18.1	36.9
21:12	4.21	15.2	20.8	23:55	6.92	7.9	31.4	2:37	9.63	28.4	38.1
21:15	4.25	9.2	30.2	23:57	6.96	7.8	30.8	2:40	9.67	33.3	38.1
21:17	4.29	9.2	24.9	24-May-80				2:42	9.71	28.4	35.3
21:20	4.33	8.6	31.7	0:00	7.00	7.6	29.0	2:45	9.75	35.2	35.2
21:22	4.38	9.2	29.7	0:05	7.08	7.5	28.4	2:47	9.79	37.4	37.4
21:25	4.42	8.5	31.2	0:07	7.13	7.7	33.2	2:50	9.83	28.0	36.0
21:30	4.50	11.7	34.6	0:10	7.17	7.6	32.5	2:52	9.88	31.7	36.3
21:32	4.54	11.0	28.4	0:12	7.21	7.7	29.6	2:55	9.92	27.5	32.2
21:35	4.58	12.0	32.0	0:15	7.25	7.7	29.6	2:57	9.96	28.0	37.5
21:37	4.63	10.6	30.4	0:17	7.29	7.7	29.6	3:04	10.07	33.9	33.9
21:40	4.67	10.5	30.0	0:22	7.38	7.7	29.6	3:06	10.10	23.5	34.5
21:42	4.71	9.6	31.8	0:25	7.42	7.7	29.6	3:07	10.13	19.7	35.2
21:45	4.75	12.0	32.0	0:27	7.46	7.5	28.4	3:10	10.17	24.9	35.2
21:47	4.79	10.6	33.7	0:30	7.50	7.5	31.8	3:12	10.21	25.3	31.4
21:50	4.83	13.1	31.0	0:32	7.54	7.3	30.4	3:15	10.25	27.0	34.6

Annex 1.6 continued. Sequential vertical positions of Fish 3

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-May-80				24-May-80				24-May-80			
3:17	10.29	36.9	36.9	20:30	27.50	33.2	33.2	23:55	30.92	6.5	36.6
3:20	10.33	33.7	33.7	21:04	28.07	16.5	25.8	23:57	30.96	7.1	35.3
3:27	10.46	33.2	33.2	21:07	28.13	7.8	23.2	25-May-80			
3:30	10.50	30.6	30.6	21:10	28.17	12.4	33.3	0:00	31.00	7.8	42.2
3:32	10.54	31.7	31.7	21:12	28.21	15.8	34.4	0:02	31.04	11.3	40.5
3:35	10.58	35.3	35.3	21:15	28.25	17.6	35.5	0:05	31.08	8.5	44.2
3:40	10.67	31.1	31.1	21:17	28.29	15.2	34.5	0:07	31.13	5.9	43.4
3:45	10.75	30.6	30.6	21:20	28.33	14.5	35.3	0:10	31.17	6.3	44.2
3:50	10.83	33.1	33.1	21:22	28.38	13.6	38.0	0:12	31.21	9.6	45.4
4:00	11.00	33.5	33.5	21:25	28.42	13.2	36.5	0:15	31.25	11.3	47.7
4:15	11.25	33.7	33.7	21:27	28.46	13.8	35.5	0:17	31.29	9.8	43.9
4:30	11.50	31.8	31.8	21:30	28.50	11.0	31.8	0:20	31.33	4.0	43.1
4:45	11.75	29.6	29.6	21:32	28.54	11.7	38.4	0:22	31.38	5.6	42.0
5:00	12.00	34.4	34.4	21:35	28.58	10.3	37.1	0:25	31.42	4.0	39.8
5:15	12.25	32.7	32.7	21:37	28.63	11.7	34.3	0:27	31.46	6.9	41.1
5:30	12.50	33.2	33.2	21:40	28.67	6.4	35.5	0:30	31.50	7.8	34.6
5:45	12.75	34.5	34.5	21:42	28.71	7.4	27.8	0:32	31.54	7.6	36.1
6:00	13.00	32.2	32.2	21:45	28.75	8.0	40.0	0:35	31.58	6.4	35.5
6:15	13.25	31.8	31.8	21:47	28.79	8.4	34.2	0:37	31.63	4.0	37.9
6:30	13.50	32.2	32.2	21:50	28.83	5.7	34.9	0:40	31.67	4.0	35.3
6:45	13.75	33.2	33.2	21:52	28.88	7.7	31.2	0:42	31.71	4.0	31.4
7:00	14.00	30.6	30.6	21:55	28.92	9.4	36.2	0:45	31.75	4.0	32.7
7:15	14.25	31.8	31.8	21:57	28.96	11.7	30.8	0:50	31.83	4.0	32.5
7:30	14.50	20.6	20.6	22:00	29.00	9.9	36.4	0:52	31.88	4.0	32.7
7:45	14.75	28.7	28.7	22:02	29.04	6.1	37.1	0:55	31.92	4.0	34.5
8:00	15.00	31.8	31.8	22:05	29.08	4.0	35.5	0:57	31.96	4.0	34.7
8:15	15.25	33.2	33.2	22:07	29.13	7.2	29.8	1:00	32.00	4.0	34.3
8:30	15.50	30.4	30.4	22:10	29.17	8.0	36.0	1:02	32.04	4.0	36.4
8:45	15.75	32.2	32.2	22:12	29.21	6.1	33.0	1:05	32.08	4.0	37.9
9:00	16.00	31.8	31.8	22:15	29.25	5.8	34.9	1:07	32.13	4.0	35.2
9:15	16.25	31.8	31.8	22:17	29.29	8.4	30.0	1:10	32.17	4.0	32.7
9:30	16.50	35.3	35.3	22:20	29.33	6.8	31.8	1:12	32.21	4.0	35.5
9:45	16.75	29.8	29.8	22:22	29.38	7.8	33.9	1:15	32.25	4.0	37.9
10:00	17.00	32.5	32.5	22:25	29.42	7.3	33.7	1:20	32.33	7.5	38.7
10:15	17.25	34.2	34.2	22:27	29.46	5.8	29.9	1:22	32.38	4.0	42.2
10:30	17.50	26.6	26.6	22:30	29.50	5.7	30.2	1:25	32.42	4.0	37.3
10:45	17.75	28.0	28.0	22:32	29.54	6.2	30.0	1:27	32.46	4.0	40.2
11:00	18.00	29.9	29.9	22:35	29.58	9.8	29.8	1:30	32.50	4.0	33.2
11:15	18.25	36.1	36.1	22:37	29.63	7.9	27.5	1:32	32.54	4.0	34.5
11:30	18.50	29.0	29.0	22:40	29.67	7.6	29.0	1:35	32.58	4.0	32.5
11:45	18.75	30.6	30.6	22:42	29.71	8.2	29.0	1:37	32.63	4.0	35.3
12:00	19.00	34.4	34.4	22:45	29.75	9.2	30.1	1:40	32.67	4.0	38.4
12:15	19.25	36.0	36.0	22:50	29.83	12.0	32.0	1:42	32.71	4.0	42.2
12:30	19.50	27.4	27.4	22:52	29.88	10.3	35.3	1:45	32.75	4.0	41.5
12:45	19.75	31.7	31.7	22:55	29.92	6.4	32.1	1:47	32.79	4.0	40.0
13:00	20.00	26.9	26.9	22:57	29.96	12.9	36.4	1:50	32.83	4.0	37.7
13:30	20.50	29.0	29.0	23:00	30.00	14.5	42.2	1:52	32.88	4.0	42.0
14:22	21.37	11.0	11.0	23:02	30.04	15.5	42.2	1:55	32.92	4.0	42.8
14:30	21.50	31.8	31.8	23:05	30.08	14.7	39.6	1:57	32.96	4.0	45.1
15:15	22.25	26.9	26.9	23:07	30.13	14.5	38.7	2:00	33.00	4.0	43.1
15:30	22.50	31.2	31.2	23:10	30.17	12.4	40.0	2:02	33.04	4.0	36.0
15:45	22.75	29.0	29.0	23:12	30.21	10.5	36.4	2:05	33.08	4.0	35.3
16:00	23.00	30.1	30.1	23:15	30.25	8.4	38.5	2:07	33.13	4.0	35.3
16:45	23.75	34.5	34.5	23:17	30.29	11.1	36.7	2:10	33.17	4.0	29.6
17:00	24.00	33.5	33.5	23:20	30.33	8.7	34.4	2:15	33.25	4.0	28.0
17:15	24.25	35.2	35.2	23:22	30.38	9.1	39.1	2:17	33.29	4.0	23.2
17:30	24.50	34.5	34.5	23:25	30.42	11.1	41.2	2:22	33.38	4.0	40.5
17:45	24.75	31.8	31.8	23:27	30.46	12.1	38.9	2:25	33.42	4.0	37.7
18:00	25.00	32.9	32.9	23:30	30.50	14.2	41.2	2:27	33.46	5.8	38.2
18:15	25.25	34.2	34.2	23:32	30.54	16.0	43.9	2:30	33.50	4.0	37.6
18:30	25.50	36.9	36.9	23:35	30.58	10.8	41.2	2:32	33.54	4.0	35.5
18:45	25.75	33.7	33.7	23:37	30.63	7.5	34.9	2:35	33.58	4.0	34.5
19:00	26.00	33.3	33.3	23:40	30.67	9.0	34.9	2:37	33.63	4.0	29.0
19:15	26.25	34.3	34.3	23:42	30.71	12.9	21.8	2:40	33.67	12.6	42.3
19:30	26.50	29.6	29.6	23:45	30.75	15.8	43.1	2:42	33.71	8.2	39.1
19:45	26.75	34.7	34.7	23:47	30.79	9.6	34.5	2:45	33.75	4.0	35.2
20:00	27.00	37.3	37.3	23:50	30.83	7.7	36.5	2:47	33.79	4.0	37.0
20:15	27.25	35.5	35.5	23:52	30.88	8.0	35.7	2:50	33.83	4.0	36.9

Annex 1.6 continued. Sequential vertical positions of Fish 3

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)
25-May-80				25-May-80				25-May-80			
2:52	33.87	8.1	40.8	5:42	36.71	10.3	35.3	14:45	45.75	31.6	31.6
2:55	33.92	4.0	42.2	5:45	36.75	11.5	37.6	15:00	46.00	28.0	28.0
2:57	33.96	4.0	37.3	5:47	36.79	10.8	35.5	15:15	46.25	30.6	30.6
3:00	34.00	4.0	31.8	5:50	36.83	13.1	35.5	15:30	46.50	24.4	24.4
3:02	34.04	4.0	46.0	5:52	36.87	12.4	34.5	15:45	46.75	27.0	27.0
3:05	34.08	8.9	44.9	5:55	36.92	11.5	33.9	16:00	47.00	28.4	28.4
3:07	34.12	27.6	45.0	5:57	36.96	12.1	36.2	16:15	47.25	29.0	29.0
3:10	34.17	29.9	48.9	6:00	37.00	35.2	35.2	16:30	47.50	31.7	31.7
3:12	34.21	24.2	46.4	6:02	37.04	25.9	35.3	16:45	47.75	28.0	28.0
3:15	34.25	19.4	46.0	6:05	37.08	22.3	36.9	17:00	48.00	23.6	23.6
3:17	34.29	18.4	49.5	6:07	37.12	18.6	35.5	17:15	48.25	32.2	32.2
3:20	34.33	18.6	44.9	6:10	37.17	16.5	37.1	17:30	48.50	31.8	31.8
3:22	34.37	17.1	40.3	6:12	37.21	17.1	32.6	17:45	48.75	33.3	33.3
3:27	34.46	23.2	42.2	6:15	37.25	15.3	37.6	18:00	49.00	31.7	31.7
3:30	34.50	31.0	37.7	6:17	37.29	15.2	34.5	18:15	49.25	26.0	26.0
3:32	34.53	37.7	37.7	6:20	37.33	13.8	33.1	18:30	49.50	32.0	32.0
3:32	34.54	30.1	40.3	6:22	37.37	15.5	35.5	18:45	49.75	13.4	32.2
3:35	34.58	18.1	39.2	6:25	37.42	14.5	35.3	18:47	49.79	13.1	28.8
3:37	34.62	12.4	39.1	6:27	37.46	16.6	35.3	18:50	49.83	15.9	30.6
3:40	34.67	11.9	37.7	6:30	37.50	11.7	34.3	18:52	49.87	21.8	33.5
3:42	34.71	10.6	37.0	6:32	37.54	13.6	34.3	18:55	49.92	25.6	30.9
3:45	34.75	7.5	38.2	6:35	37.58	16.2	35.5	18:57	49.96	33.7	33.7
3:47	34.79	6.4	41.2	6:37	37.62	13.9	37.0	19:00	50.00	11.3	11.3
3:50	34.83	4.0	40.3	6:40	37.67	11.3	35.5				
3:52	34.87	4.0	36.0	6:42	37.71	11.3	35.5				
3:55	34.92	4.0	40.5	6:45	37.75	12.4	31.8				
3:57	34.96	4.0	39.8	6:47	37.79	18.0	35.3				
4:00	35.00	4.0	40.0	6:50	37.83	15.2	34.5				
4:02	35.04	4.0	37.0	6:52	37.87	13.6	34.3				
4:05	35.08	4.0	41.4	6:55	37.92	11.7	32.5				
4:07	35.12	4.0	38.5	6:57	37.96	13.1	31.0				
4:10	35.17	4.0	34.2	7:00	38.00	22.3	36.9				
4:12	35.21	4.0	35.2	7:01	38.02	23.2	30.8				
4:15	35.25	4.0	38.7	7:02	38.03	27.0	30.8				
4:17	35.29	4.0	40.3	7:02	38.04	36.9	36.9				
4:20	35.33	4.0	35.5	7:05	38.08	34.4	34.4				
4:22	35.37	4.0	35.5	7:07	38.12	35.3	35.3				
4:25	35.42	7.5	35.3	7:10	38.17	32.2	32.2				
4:27	35.46	11.2	43.1	7:12	38.21	35.3	35.3				
4:30	35.50	8.4	42.6	7:15	38.25	30.9	30.9				
4:32	35.54	9.6	40.0	7:30	38.50	32.7	32.7				
4:35	35.58	7.3	43.5	7:45	38.75	32.6	32.6				
4:37	35.62	10.3	41.4	8:00	39.00	35.2	35.2				
4:40	35.67	11.0	42.2	8:15	39.25	35.1	35.1				
4:42	35.71	9.9	42.2	8:30	39.50	36.5	36.5				
4:45	35.75	10.3	44.5	8:45	39.75	37.4	37.4				
4:47	35.79	11.2	43.1	9:00	40.00	33.0	33.0				
4:50	35.83	9.6	42.7	9:15	40.25	32.6	32.6				
4:52	35.87	11.2	53.6	9:30	40.50	32.6	32.6				
4:55	35.92	11.2	43.1	9:45	40.75	32.6	32.6				
4:57	35.96	9.1	41.5	10:00	41.00	30.7	30.7				
5:00	36.00	6.4	40.2	10:15	41.25	36.0	36.0				
5:02	36.04	6.5	39.1	10:30	41.50	32.2	32.2				
5:05	36.08	6.8	40.0	10:45	41.75	33.5	33.5				
5:07	36.12	10.1	37.4	11:00	42.00	33.2	33.2				
5:10	36.17	7.5	38.7	11:15	42.25	31.1	31.1				
5:12	36.21	10.8	41.2	11:30	42.50	31.7	31.7				
5:15	36.25	8.9	42.6	11:45	42.75	31.4	31.4				
5:17	36.29	12.4	42.7	12:00	43.00	32.1	32.1				
5:20	36.33	14.2	44.5	12:15	43.25	47.9	47.9				
5:22	36.37	13.4	44.5	12:30	43.50	29.0	29.0				
5:25	36.42	11.9	40.3	12:45	43.75	36.4	36.4				
5:27	36.46	12.9	42.2	13:00	44.00	41.4	41.4				
5:30	36.50	14.7	43.1	13:15	44.25	39.2	39.2				
5:32	36.54	15.5	41.1	13:30	44.50	34.5	34.5				
5:35	36.58	13.9	37.0	13:45	44.75	35.5	35.5				
5:37	36.62	7.2	36.1	14:00	45.00	38.4	38.4				
5:40	36.67	9.6	34.5	14:30	45.50	26.6	26.6				

*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)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
26-May-80				27-May-80				28-May-80			
17:02	0.00	52.261	2.024	9:15	16.22	52.142	1.980	2:00	32.97	52.087	2.020
17:15	0.22	52.258	2.023	9:30	16.47	52.142	1.980	2:15	33.22	52.090	2.026
17:30	0.47	52.257	2.025	9:45	16.72	52.141	1.980	2:30	33.47	52.094	2.030
17:45	0.72	52.256	2.027	10:00	16.97	52.139	1.982	2:45	33.72	52.100	2.035
18:00	0.97	52.256	2.023	10:15	17.22	52.138	1.983	3:00	33.97	52.103	2.038
18:15	1.22	52.254	2.022	10:30	17.47	52.137	1.986	3:15	34.22	52.106	2.040
18:30	1.47	52.254	2.023	11:00	17.97	52.139	1.989	3:30	34.47	52.109	2.042
18:45	1.72	52.253	2.023	11:15	18.22	52.141	1.989	3:45	34.72	52.110	2.041
19:00	1.97	52.247	2.020	11:30	18.47	52.141	1.990	4:00	34.97	52.111	2.043
19:15	2.22	52.238	2.018	11:45	18.72	52.142	1.990	4:15	35.22	52.111	2.043
19:30	2.47	52.231	2.018	12:00	18.97	52.142	1.990	4:30	35.47	52.110	2.044
19:45	2.72	52.227	2.019	12:15	19.22	52.142	1.990	4:45	35.72	52.109	2.041
20:00	2.97	52.226	2.019	12:30	19.47	52.142	1.990	5:00	35.97	52.108	2.039
20:15	3.22	52.226	2.019	12:45	19.72	52.142	1.991	5:15	36.22	52.107	2.037
20:30	3.47	52.224	2.019	13:00	19.97	52.142	1.990	5:30	36.47	52.105	2.033
20:45	3.72	52.223	2.018	13:15	20.22	52.143	1.989	5:45	36.72	52.100	2.029
21:00	3.97	52.222	2.017	13:30	20.47	52.142	1.990	6:00	36.97	52.095	2.025
21:15	4.22	52.222	2.014	13:45	20.72	52.142	1.991	6:15	37.22	52.088	2.022
21:30	4.47	52.222	2.013	14:00	20.97	52.142	1.990	6:30	37.47	52.082	2.019
21:45	4.72	52.222	2.016	14:15	21.22	52.141	1.990	6:45	37.72	52.073	2.016
22:00	4.97	52.224	2.021	14:30	21.47	52.141	1.990	7:00	37.97	52.064	2.010
22:15	5.22	52.227	2.027	14:45	21.72	52.142	1.989	7:15	38.22	52.054	2.004
22:30	5.47	52.228	2.029	15:00	21.97	52.142	1.989	7:30	38.47	52.043	1.999
22:45	5.72	52.229	2.030	15:15	22.22	52.142	1.989	7:45	38.72	52.032	1.992
23:00	5.97	52.231	2.033	15:30	22.47	52.144	1.990	8:00	38.97	52.023	1.989
23:15	6.22	52.232	2.029	15:45	22.72	52.144	1.991	8:15	39.22	52.012	1.981
23:30	6.47	52.233	2.032	16:00	22.97	52.145	1.993	8:30	39.47	52.006	1.979
23:45	6.72	52.235	2.026	16:15	23.22	52.145	1.992	8:45	39.72	51.999	1.973
27-May-80				16:30	23.47	52.143	1.993	9:00	39.97	51.995	1.967
0:00	6.97	52.235	2.027	17:00	23.97	52.134	1.993	9:15	40.22	51.992	1.963
0:15	7.22	52.236	2.024	17:15	24.22	52.129	1.992	9:30	40.47	51.988	1.959
0:30	7.47	52.235	2.026	17:30	24.47	52.123	1.991	9:45	40.72	51.984	1.957
0:45	7.72	52.236	2.030	17:45	24.72	52.115	1.988	10:00	40.97	51.982	1.952
1:00	7.97	52.239	2.027	18:00	24.97	52.107	1.984	10:15	41.22	51.981	1.949
1:15	8.22	52.240	2.026	18:15	25.22	52.098	1.980	10:30	41.47	51.981	1.947
1:30	8.47	52.241	2.026	18:30	25.47	52.090	1.976	10:45	41.72	51.982	1.945
1:45	8.72	52.241	2.023	18:45	25.72	52.082	1.971	11:00	41.97	51.984	1.945
2:00	8.97	52.241	2.029	19:00	25.97	52.075	1.968	11:15	42.22	51.987	1.945
2:15	9.22	52.241	2.027	19:15	26.22	52.067	1.964	11:30	42.47	51.991	1.947
2:30	9.47	52.240	2.026	19:30	26.47	52.058	1.960	11:45	42.72	51.995	1.950
2:45	9.72	52.241	2.027	19:45	26.72	52.050	1.956	12:00	42.97	52.000	1.954
3:00	9.97	52.241	2.027	20:00	26.97	52.043	1.952	12:15	43.22	52.004	1.955
3:15	10.22	52.241	2.026	20:15	27.22	52.035	1.949	12:30	43.47	52.009	1.957
3:30	10.47	52.241	2.026	20:30	27.47	52.028	1.945	12:45	43.72	52.013	1.960
3:45	10.72	52.241	2.025	20:45	27.72	52.022	1.941	13:00	43.97	52.019	1.965
4:00	10.97	52.241	2.024	21:00	27.97	52.016	1.939	13:15	44.22	52.026	1.970
4:15	11.22	52.239	2.023	21:15	28.22	52.012	1.937	13:30	44.47	52.030	1.971
4:30	11.47	52.238	2.021	21:30	28.47	52.010	1.936	13:45	44.72	52.030	1.971
4:45	11.72	52.236	2.023	21:45	28.72	52.009	1.936	14:00	44.97	52.030	1.971
5:00	11.97	52.233	2.023	22:00	28.97	52.009	1.937	14:15	45.22	52.031	1.972
5:15	12.22	52.230	2.024	22:15	29.22	52.010	1.940	14:30	45.47	52.031	1.971
5:30	12.47	52.227	2.024	22:30	29.47	52.012	1.944	14:45	45.72	52.031	1.971
5:45	12.72	52.222	2.022	22:45	29.72	52.016	1.943	15:00	45.97	52.030	1.972
6:00	12.97	52.215	2.019	23:00	29.97	52.021	1.950	15:15	46.22	52.032	1.968
6:15	13.22	52.206	2.016	23:15	30.22	52.027	1.952	15:30	46.47	52.031	1.970
6:30	13.47	52.198	2.013	23:30	30.47	52.035	1.962	15:45	46.72	52.031	1.971
6:45	13.72	52.190	2.007	23:45	30.72	52.044	1.973	16:00	46.97	52.031	1.971
7:00	13.97	52.182	2.004	28-May-80				16:15	47.22	52.031	1.971
7:15	14.22	52.173	2.000	0:00	30.97	52.053	1.979	16:30	47.47	52.031	1.971
7:30	14.47	52.164	1.995	0:15	31.22	52.058	1.993	16:45	47.72	52.031	1.972
7:45	14.72	52.156	1.990	0:30	31.47	52.063	1.995	17:00	47.97	52.031	1.971
8:00	14.97	52.149	1.986	0:45	31.72	52.067	1.998	17:15	48.22	52.031	1.971
8:15	15.22	52.143	1.980	1:00	31.97	52.072	2.000	17:30	48.47	52.031	1.971
8:30	15.47	52.142	1.978	1:15	32.22	52.076	2.008	17:45	48.72	52.026	1.968
8:45	15.72	52.142	1.980	1:30	32.47	52.080	2.014				
9:00	15.97	52.142	1.981	1:45	32.72	52.083	2.013				

*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)	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)
26-May-80				26-May-80				27-May-80			
17:15	0.00	34.5	41.2	<i>21:15</i>	<i>4.00</i>	<i>35.5</i>	<i>35.5</i>	0:02	6.79	36.1	36.1
17:16	0.02	40.0	43.9	21:17	4.04	40.0	40.0	0:05	6.83	36.2	36.2
17:17	0.04	40.3	40.3	21:20	4.08	38.4	38.4	0:07	6.88	36.9	36.9
17:20	0.08	40.3	40.3	21:22	4.13	39.3	39.3	0:10	6.92	37.9	37.9
17:22	0.13	40.0	40.0	21:25	4.17	33.6	36.2	0:12	6.96	37.7	37.7
17:30	0.25	40.3	40.3	<i>21:27</i>	<i>4.21</i>	<i>34.5</i>	<i>34.5</i>	0:15	7.00	39.6	39.6
<i>17:45</i>	<i>0.50</i>	<i>36.9</i>	<i>36.9</i>	21:30	4.25	36.6	36.6	0:30	7.25	38.7	38.7
18:00	0.75	43.9	43.9	21:35	4.33	36.3	42.0	<i>0:45</i>	<i>7.50</i>	<i>34.5</i>	<i>34.5</i>
18:02	0.79	35.3	38.7	21:40	4.42	33.2	41.5	0:47	7.54	28.7	31.4
18:15	1.00	43.5	43.5	21:42	4.46	31.0	39.1	0:50	7.58	33.0	35.1
18:30	1.25	46.0	46.0	21:45	4.50	30.1	40.3	0:52	7.63	33.7	33.7
18:41	1.43	32.6	37.7	21:47	4.54	31.8	40.0	0:55	7.67	40.2	40.2
18:45	1.50	37.7	37.7	21:50	4.58	30.6	39.3	0:57	7.71	40.5	40.5
18:55	1.67	32.9	39.9	21:52	4.63	29.1	41.4	0:58	7.72	36.4	42.2
18:57	1.71	34.3	41.6	21:55	4.67	24.7	39.3	1:00	7.75	36.2	38.0
19:00	1.75	34.7	38.2	21:57	4.71	24.1	38.3	<i>1:02</i>	<i>7.79</i>	<i>36.1</i>	<i>36.1</i>
19:02	1.79	35.5	40.2	22:00	4.75	25.6	38.9	1:05	7.83	35.3	35.3
<i>19:05</i>	<i>1.83</i>	<i>42.2</i>	<i>42.2</i>	22:05	4.83	20.6	43.5	1:07	7.88	38.4	38.4
19:07	1.88	36.1	39.6	22:07	4.88	25.8	47.4	1:15	8.00	43.1	43.1
19:10	1.92	28.4	38.7	22:10	4.92	27.7	45.1	1:30	8.25	37.7	37.7
19:12	1.96	26.3	37.3	22:12	4.96	24.3	39.8	1:45	8.50	37.9	37.9
19:15	2.00	31.0	35.5	22:15	5.00	24.9	40.3	2:00	8.75	39.3	39.3
19:17	2.04	32.2	38.4	22:17	5.04	29.6	44.1	2:15	9.00	42.5	42.5
19:20	2.08	32.5	36.1	22:20	5.08	29.1	44.5	2:30	9.25	38.7	38.7
19:22	2.13	35.3	41.4	22:22	5.13	36.4	42.2	2:45	9.50	39.1	39.1
19:25	2.17	32.7	38.3	22:25	5.17	39.3	42.2	3:00	9.75	39.3	39.3
19:27	2.21	33.5	36.4	<i>22:27</i>	<i>5.21</i>	<i>42.5</i>	<i>42.5</i>	3:15	10.00	43.5	43.5
19:30	2.25	33.7	37.0	22:30	5.25	40.3	45.4	3:22	10.13	35.3	41.4
19:32	2.29	36.4	36.4	22:32	5.29	38.9	41.5	3:25	10.17	44.2	52.7
19:35	2.33	36.4	39.3	22:35	5.33	36.4	42.2	3:27	10.21	36.5	40.3
<i>19:37</i>	<i>2.38</i>	<i>37.9</i>	<i>37.9</i>	<i>22:37</i>	<i>5.38</i>	<i>38.8</i>	<i>38.8</i>	3:30	10.25	39.8	39.8
<i>19:40</i>	<i>2.42</i>	<i>38.9</i>	<i>38.9</i>	22:40	5.42	43.0	43.0	3:32	10.29	37.3	40.0
<i>19:42</i>	<i>2.46</i>	<i>37.9</i>	<i>37.9</i>	<i>22:42</i>	<i>5.46</i>	<i>43.9</i>	<i>43.9</i>	3:35	10.33	35.3	42.2
19:45	2.50	33.5	39.3	<i>22:45</i>	<i>5.50</i>	<i>42.2</i>	<i>42.2</i>	3:37	10.38	33.9	41.3
19:47	2.54	30.8	38.4	22:47	5.54	46.6	46.6	3:40	10.42	35.2	42.8
<i>19:50</i>	<i>2.58</i>	<i>42.5</i>	<i>42.5</i>	<i>22:50</i>	<i>5.58</i>	<i>41.1</i>	<i>41.1</i>	3:42	10.46	37.3	42.7
19:52	2.63	42.2	42.2	22:52	5.63	39.1	41.5	<i>3:45</i>	<i>10.50</i>	<i>46.0</i>	<i>46.0</i>
19:55	2.67	43.1	43.1	<i>22:55</i>	<i>5.67</i>	<i>37.4</i>	<i>37.4</i>	<i>3:47</i>	<i>10.54</i>	<i>42.2</i>	<i>42.2</i>
19:57	2.71	41.1	41.1	22:57	5.71	38.4	38.4	3:50	10.58	46.0	46.0
20:00	2.75	42.0	42.0	23:00	5.75	42.2	42.2	3:52	10.63	36.9	44.1
20:02	2.79	45.1	45.1	23:02	5.79	42.6	42.6	3:55	10.67	31.1	41.2
20:05	2.83	43.1	43.1	23:05	5.83	41.2	41.2	3:57	10.71	26.6	42.5
20:07	2.88	42.2	42.2	23:07	5.88	39.3	39.3	4:00	10.75	24.9	42.2
20:10	2.92	42.2	42.2	23:10	5.92	42.2	42.2	4:02	10.79	25.9	41.4
<i>20:12</i>	<i>2.96</i>	<i>43.5</i>	<i>43.5</i>	23:12	5.96	42.0	42.0	4:05	10.83	31.1	41.2
20:15	3.00	34.9	39.8	23:15	6.00	42.8	42.8	4:07	10.88	32.5	39.6
<i>20:20</i>	<i>3.08</i>	<i>37.9</i>	<i>37.9</i>	23:17	6.04	41.3	41.3	4:10	10.92	40.3	43.5
<i>20:22</i>	<i>3.13</i>	<i>41.6</i>	<i>41.6</i>	23:20	6.08	42.7	42.7	4:12	10.96	44.5	44.5
20:25	3.17	42.2	42.2	23:22	6.13	42.0	42.0	4:15	11.00	35.3	41.4
20:29	3.23	38.2	39.9	23:25	6.17	38.4	38.4	4:17	11.04	32.9	39.3
20:30	3.25	39.8	42.0	23:27	6.21	38.4	38.4	4:20	11.08	30.4	40.3
<i>20:32</i>	<i>3.29</i>	<i>40.0</i>	<i>40.0</i>	23:30	6.25	40.0	40.0	4:22	11.13	26.6	42.5
20:35	3.33	40.5	40.5	23:32	6.29	39.3	39.3	4:25	11.17	29.1	41.4
20:37	3.38	40.3	40.3	23:35	6.33	42.2	42.2	4:27	11.21	32.7	41.1
20:40	3.42	34.4	43.4	23:37	6.38	37.7	37.7	4:30	11.25	33.5	39.3
20:45	3.50	30.1	37.7	23:40	6.42	40.3	40.3	4:32	11.29	29.1	41.4
20:50	3.58	29.8	39.3	23:42	6.46	42.2	42.2	4:35	11.33	34.5	41.2
20:52	3.63	29.8	41.1	23:45	6.50	37.1	39.1	4:37	11.38	35.3	42.2
20:55	3.67	38.9	41.5	23:47	6.54	35.5	35.5	4:40	11.42	32.6	40.3
21:00	3.75	36.6	41.5	23:50	6.58	38.7	38.7	4:42	11.46	30.7	37.9
21:02	3.79	39.3	42.2	23:52	6.63	36.4	36.4	<i>4:45</i>	<i>11.50</i>	<i>34.4</i>	<i>34.4</i>
<i>21:05</i>	<i>3.83</i>	<i>40.3</i>	<i>40.3</i>	23:55	6.67	35.2	35.2	<i>4:47</i>	<i>11.54</i>	<i>33.2</i>	<i>33.2</i>
21:07	3.88	37.4	43.4	23:57	6.71	39.6	39.6	4:50	11.58	32.5	39.6
21:10	3.92	37.9	40.2	27-May-80				4:52	11.63	36.1	39.6
21:12	3.96	32.1	41.2	0:00	6.75	37.0	37.0	<i>4:55</i>	<i>11.67</i>	<i>39.6</i>	<i>39.6</i>

Annex 1.8 continued. Sequential vertical positions of Fish 4

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)
27-May-80				27-May-80				27-May-80			
4:57	11.71	38.7	42.2	7:47	14.54	22.3	36.9	13:45	20.50	35.2	35.2
5:00	11.75	36.4	40.6	7:50	14.58	24.1	40.0	14:00	20.75	34.5	34.5
5:02	11.79	36.4	40.6	7:52	14.63	29.6	38.1	14:15	21.00	33.8	33.8
5:05	11.83	39.8	39.8	7:55	14.67	23.2	38.4	14:30	21.25	36.2	36.2
5:07	11.88	39.8	39.8	7:57	14.71	26.0	36.9	14:45	21.50	34.5	34.5
5:10	11.92	37.7	37.7	8:00	14.75	26.0	40.5	15:00	21.75	32.6	32.6
5:12	11.96	33.5	36.4	8:02	14.79	26.0	38.9	15:15	22.00	18.8	33.5
5:15	12.00	32.6	37.7	8:05	14.83	27.0	34.6	15:17	22.04	15.5	30.8
5:17	12.04	24.7	39.3	8:07	14.88	28.0	36.0	15:20	22.08	16.6	34.2
5:20	12.08	23.9	40.3	8:10	14.92	27.0	38.4	15:22	22.13	14.0	31.8
5:22	12.13	23.3	39.3	8:12	14.96	24.9	35.3	15:25	22.17	17.1	32.6
5:25	12.17	24.1	41.1	8:15	15.00	33.5	39.3	15:27	22.21	18.8	33.5
5:27	12.21	29.8	43.9	8:20	15.08	32.7	32.7	15:30	22.25	21.4	31.8
5:30	12.25	29.8	41.1	8:22	15.13	31.7	31.7	15:32	22.29	19.0	37.6
5:32	12.29	27.7	42.2	8:30	15.25	32.8	32.8	15:35	22.33	23.9	37.0
5:35	12.33	27.2	43.5	8:45	15.50	38.4	38.4	15:37	22.38	20.7	34.5
5:37	12.38	20.7	42.7	9:00	15.75	37.3	37.3	15:40	22.42	18.8	33.5
5:40	12.42	20.5	41.2	9:15	16.00	32.7	32.7	15:42	22.46	21.0	34.5
5:42	12.46	19.2	40.6	9:30	16.25	36.1	36.1	15:45	22.50	18.3	36.1
5:45	12.50	17.1	40.6	9:45	16.50	21.3	32.7	15:47	22.54	19.0	37.6
5:47	12.54	18.1	41.2	9:47	16.54	24.3	37.7	15:50	22.58	21.4	35.3
5:50	12.58	18.6	40.2	9:50	16.58	23.6	36.4	15:52	22.63	22.3	36.9
5:52	12.63	21.1	42.6	9:52	16.63	19.8	35.5	15:55	22.67	22.3	33.2
5:55	12.67	19.2	41.5	9:55	16.67	19.7	35.2	15:57	22.71	21.0	34.5
5:57	12.71	17.9	40.0	9:57	16.71	24.7	36.4	16:00	22.75	22.9	28.3
6:00	12.75	19.3	40.4	10:00	16.75	24.7	36.4	16:02	22.79	28.3	33.6
6:02	12.79	21.0	44.5	10:05	16.83	24.2	34.2	16:05	22.83	29.2	34.2
6:05	12.83	22.3	42.8	10:07	16.88	22.3	35.2	16:07	22.88	32.7	32.7
6:07	12.88	23.6	42.6	10:10	16.92	22.9	36.2	16:10	22.92	20.6	33.7
6:10	12.92	20.7	48.1	10:12	16.96	24.1	35.5	16:12	22.96	17.3	33.7
6:12	12.96	23.3	51.9	10:15	17.00	24.1	35.5	16:15	23.00	15.0	36.9
6:15	13.00	16.6	44.5	10:17	17.04	24.7	36.4	16:17	23.04	15.0	33.2
6:17	13.04	18.8	48.0	10:20	17.08	25.3	34.4	16:20	23.08	15.3	33.9
6:20	13.08	16.2	49.3	10:22	17.13	36.4	36.4	16:22	23.13	15.0	36.9
6:22	13.13	16.9	51.9	10:25	17.17	24.7	33.5	16:25	23.17	15.3	33.9
6:25	13.17	17.6	54.5	10:27	17.21	21.3	32.7	16:27	23.21	16.0	36.0
6:27	13.21	21.0	54.5	10:30	17.25	22.3	32.6	16:30	23.25	11.2	36.1
6:30	13.25	21.0	54.5	10:32	17.29	19.7	35.2	16:32	23.29	11.2	36.1
6:32	13.29	21.0	54.5	10:35	17.33	18.6	33.1	16:35	23.33	11.3	33.2
6:35	13.33	21.4	52.4	10:37	17.38	19.7	32.6	16:37	23.38	9.8	32.7
6:37	13.38	21.4	52.4	10:40	17.42	18.4	32.7	16:40	23.42	9.4	33.6
6:40	13.42	18.8	48.0	10:42	17.46	16.6	32.2	16:42	23.46	12.1	33.6
6:42	13.46	22.3	46.3	10:45	17.50	16.2	34.9	16:45	23.50	9.9	33.5
6:45	13.50	23.9	46.7	10:47	17.54	16.5	33.3	16:47	23.54	10.6	33.7
6:47	13.54	21.4	45.6	10:50	17.58	17.9	33.2	16:50	23.58	14.2	34.5
6:50	13.58	17.9	48.1	10:52	17.63	15.5	32.5	16:52	23.63	11.9	32.6
6:52	13.63	17.5	41.5	10:55	17.67	16.5	35.1	16:55	23.67	9.6	31.8
6:55	13.67	16.6	38.4	10:57	17.71	17.6	35.5	16:57	23.71	10.3	32.2
6:57	13.71	16.6	38.4	11:00	17.75	17.9	34.5	17:00	23.75	14.7	32.5
7:00	13.75	18.8	39.3	11:02	17.79	19.7	35.3	17:02	23.79	13.9	30.4
7:02	13.79	24.7	36.4	11:05	17.83	21.0	34.5	17:05	23.83	17.3	33.7
7:05	13.83	18.8	36.4	11:07	17.88	27.0	34.6	17:07	23.88	14.7	32.5
7:07	13.88	17.9	34.5	11:10	17.92	31.4	35.3	17:10	23.92	13.2	34.4
7:10	13.92	15.2	37.3	11:15	18.00	29.9	29.9	17:12	23.96	9.9	33.5
7:12	13.96	18.8	36.4	11:17	18.04	36.9	36.9	17:15	24.00	14.2	31.1
7:15	14.00	15.9	36.4	11:20	18.08	35.5	35.5	17:17	24.04	15.0	33.2
7:17	14.04	21.0	34.5	11:22	18.13	35.1	35.1	17:20	24.08	13.9	33.7
7:20	14.08	16.6	38.4	11:25	18.17	35.5	35.5	17:22	24.13	13.9	33.7
7:22	14.13	16.2	37.9	11:27	18.21	34.5	34.5	17:25	24.17	14.5	35.3
7:25	14.17	14.5	37.7	11:30	18.25	34.6	34.6	17:27	24.21	13.7	32.9
7:27	14.21	18.8	39.3	11:45	18.50	33.2	33.2	17:30	24.25	10.6	33.7
7:30	14.25	17.3	40.3	12:00	18.75	33.5	33.5	17:32	24.29	11.3	29.6
7:32	14.29	18.7	40.5	12:15	19.00	38.1	38.1	17:35	24.33	11.3	33.2
7:35	14.33	21.4	42.2	12:30	19.25	33.1	33.1	17:37	24.38	11.3	33.2
7:37	14.38	33.5	39.3	12:45	19.50	38.3	38.3	17:40	24.42	9.6	31.8
7:40	14.42	36.2	38.9	13:00	19.75	35.1	35.1	17:42	24.46	9.2	24.9
7:42	14.46	33.1	37.9	13:15	20.00	36.1	36.1	17:45	24.50	9.8	27.0
7:45	14.50	26.3	37.3	13:30	20.25	31.4	31.4	17:47	24.54	10.6	30.4

Annex 1.8 continued. Sequential vertical positions of Fish 4

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)
27-May-80				27-May-80				27-May-80			
17:50	24.58	11.2	32.5	20:37	27.38	7.2	26.6	23:35	30.33	7.3	27.2
17:52	24.63	11.2	29.0	20:40	27.42	7.1	25.3	23:37	30.38	7.6	29.0
17:55	24.67	10.6	33.7	20:42	27.46	7.1	25.9	23:40	30.42	10.3	25.9
17:57	24.71	11.9	30.1	20:45	27.50	7.6	25.4	23:42	30.46	7.1	25.3
18:00	24.75	9.2	30.1	20:47	27.54	6.6	27.5	23:45	30.50	7.1	22.8
18:02	24.79	9.9	27.7	20:50	27.58	6.6	24.9	23:47	30.54	7.1	25.9
18:05	24.83	11.2	29.0	20:52	27.63	7.3	27.2	23:50	30.58	6.9	27.0
18:07	24.88	9.1	29.2	20:55	27.67	7.6	29.0	23:52	30.63	7.0	24.7
18:10	24.92	8.9	25.9	20:57	27.71	6.6	30.1	23:55	30.67	4.0	27.7
18:12	24.96	10.6	30.4	21:00	27.75	6.7	33.6	23:57	30.71	7.3	27.2
18:15	25.00	11.5	26.5	21:02	27.79	8.9	28.3	28-May-80			
18:17	25.04	10.8	27.8	21:05	27.83	9.2	30.1	0:00	30.75	7.5	31.8
18:20	25.08	11.6	26.7	21:07	27.88	9.9	30.6	0:02	30.79	9.9	27.7
18:22	25.13	9.6	26.3	21:10	27.92	14.2	31.1	0:05	30.83	12.9	27.7
18:25	25.17	12.0	24.1	21:12	27.96	17.6	31.1	0:07	30.88	11.0	31.8
18:27	25.21	11.7	27.0	21:15	28.00	16.2	31.4	0:10	30.92	14.7	29.0
18:30	25.25	14.5	28.4	21:17	28.04	16.2	31.4	0:12	30.96	18.0	24.9
18:32	25.29	18.0	31.8	21:20	28.08	16.9	32.9	0:15	31.00	26.3	29.0
18:35	25.33	13.7	29.8	21:22	28.13	22.7	33.9	0:17	31.04	18.4	18.4
18:37	25.38	10.6	27.2	21:25	28.17	18.8	30.6	0:20	31.08	21.9	21.9
18:40	25.42	14.5	28.4	21:27	28.21	17.9	26.3	0:25	31.17	19.7	22.3
18:42	25.46	10.3	29.1	21:30	28.25	16.6	29.1	0:30	31.25	18.8	24.7
18:45	25.50	10.1	28.4	21:32	28.29	13.9	27.2	0:32	31.29	20.2	20.2
18:47	25.54	10.8	27.8	21:35	28.33	13.9	30.4	0:35	31.33	15.5	27.0
18:50	25.58	7.3	27.2	21:37	28.38	14.8	38.9	0:37	31.38	14.2	24.4
18:52	25.63	11.0	28.4	21:40	28.42	13.6	32.5	0:40	31.42	13.7	26.6
18:55	25.67	10.5	26.6	21:42	28.46	12.0	27.9	0:42	31.46	23.1	26.5
18:57	25.71	7.1	25.3	21:47	28.54	12.1	30.9	0:45	31.50	27.7	27.7
19:00	25.75	10.8	27.8	21:52	28.63	16.2	31.4	0:47	31.54	29.6	29.6
19:02	25.79	7.9	27.5	21:55	28.67	14.5	31.8	0:50	31.58	29.8	29.8
19:05	25.83	14.2	27.8	21:57	28.71	17.3	33.7	0:52	31.63	24.4	31.1
19:07	25.88	14.2	27.8	22:00	28.75	16.2	31.4	0:55	31.67	27.7	27.7
19:10	25.92	14.5	28.4	22:02	28.79	13.4	32.2	0:57	31.71	24.2	29.2
19:12	25.96	13.7	26.6	22:05	28.83	13.9	30.4	1:00	31.75	24.9	27.5
19:15	26.00	10.6	27.2	22:07	28.88	14.5	31.8	1:02	31.79	22.8	25.9
19:17	26.04	11.0	28.4	22:10	28.92	18.0	31.8	1:05	31.83	26.0	29.6
19:20	26.08	11.3	26.0	22:12	28.96	18.0	31.8	1:07	31.88	24.7	27.7
19:22	26.13	11.2	25.4	22:15	29.00	17.3	30.4	1:10	31.92	24.7	30.6
19:25	26.17	14.7	29.0	22:17	29.04	18.0	31.8	1:12	31.96	23.9	27.2
19:27	26.21	10.6	27.2	22:20	29.08	20.1	32.9	1:15	32.00	25.3	28.4
19:30	26.25	10.8	27.8	22:22	29.13	25.9	29.1	1:17	32.04	25.1	27.4
19:32	26.29	11.0	28.4	22:25	29.17	18.8	27.7	1:20	32.08	24.9	27.5
19:35	26.33	10.5	26.6	22:27	29.21	12.6	29.8	1:22	32.13	25.4	29.0
19:37	26.38	10.8	27.8	22:30	29.25	9.8	29.8	1:25	32.17	24.9	27.5
19:40	26.42	15.0	26.0	22:32	29.29	9.2	27.5	1:27	32.21	22.8	26.9
19:42	26.46	15.5	27.0	22:35	29.33	6.6	27.5	1:30	32.25	24.3	28.8
19:45	26.50	14.1	26.7	22:37	29.38	6.7	28.3	1:32	32.29	22.8	29.1
19:47	26.54	24.2	26.7	22:40	29.42	6.9	29.8	1:35	32.33	27.0	30.8
19:47	26.55	26.7	26.7	22:42	29.46	7.1	25.9	1:37	32.38	26.5	30.2
19:50	26.58	17.9	26.3	22:45	29.50	7.7	29.6	1:40	32.42	27.0	30.8
19:52	26.63	13.9	27.2	22:48	29.55	4.0	29.0	1:42	32.46	26.6	29.8
19:55	26.67	11.5	26.5	22:50	29.58	4.0	24.3	1:45	32.50	28.4	28.4
19:57	26.71	9.9	24.7	22:52	29.63	4.0	23.5	1:47	32.54	28.4	31.8
20:00	26.75	9.2	24.9	22:55	29.67	4.0	23.5	1:50	32.58	29.8	32.9
20:02	26.79	6.9	24.1	22:57	29.71	4.0	21.3	1:52	32.63	28.4	31.8
20:05	26.83	21.0	24.4	23:00	29.75	4.0	20.7	1:55	32.67	27.8	31.1
20:07	26.88	7.1	25.3	23:02	29.79	4.0	23.5	1:57	32.71	28.4	35.3
20:10	26.92	6.6	24.9	23:05	29.83	4.0	25.9	2:00	32.75	31.4	35.3
20:12	26.96	6.5	24.2	23:07	29.88	4.0	25.9	2:02	32.79	33.3	37.4
20:15	27.00	6.7	25.6	23:10	29.92	6.8	26.3	2:05	32.83	27.2	33.7
20:17	27.04	7.3	23.9	23:12	29.96	7.4	27.8	2:07	32.88	32.5	32.5
20:20	27.08	7.8	23.2	23:15	30.00	10.3	29.1	2:10	32.92	30.1	30.1
20:22	27.13	7.5	24.9	23:17	30.04	7.5	26.5	2:12	32.96	29.6	29.6
20:25	27.17	4.0	24.9	23:20	30.08	5.6	24.3	2:15	33.00	35.3	35.3
20:27	27.21	6.3	24.3	23:22	30.13	4.0	25.8	2:17	33.04	33.9	33.9
20:30	27.25	7.1	25.8	23:25	30.17	4.0	23.1	2:20	33.08	25.9	32.2
20:32	27.29	6.8	23.5	23:27	30.21	4.0	23.8	2:22	33.13	22.9	30.9
20:35	27.33	11.3	26.0	23:30	30.25	5.8	24.0	2:25	33.17	22.9	30.9

Annex 1.8 continued. Sequential vertical positions of Fish 4

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
28-May-80			
2:27	33.21	17.1	30.1
2:30	33.25	16.9	32.9
2:32	33.29	15.8	35.3
2:35	33.33	11.0	31.8
2:37	33.38	8.9	33.1
2:40	33.42	8.9	30.7
2:42	33.46	6.8	31.8
2:45	33.50	7.3	30.4
2:47	33.54	7.8	30.2
2:50	33.58	7.1	34.4
2:52	33.63	7.0	30.6
2:55	33.67	7.3	33.7
2:57	33.71	11.9	31.4
3:00	33.75	11.0	31.8
3:02	33.79	11.0	31.8
3:05	33.83	9.9	33.5
3:07	33.88	10.3	32.2
3:10	33.92	11.0	31.8
3:12	33.96	10.6	33.7
3:15	34.00	15.0	33.2
3:17	34.04	13.7	32.9
3:20	34.08	14.2	34.5
3:22	34.13	13.9	37.0
3:25	34.17	17.9	34.5
3:27	34.20	22.3	34.4
3:30	34.25	27.0	30.8
3:32	34.29	29.8	36.1
3:35	34.33	34.4	34.4
3:35	34.34	34.4	34.4
3:37	34.38	36.1	36.1
3:40	34.42	36.9	36.9
3:42	34.46	36.0	36.0
3:45	34.50	37.0	37.0
3:47	34.54	35.5	35.5
3:50	34.58	35.3	35.3
3:52	34.63	31.8	35.3
3:55	34.67	29.6	36.9
3:57	34.71	28.4	35.3
4:00	34.75	28.4	35.3
4:02	34.79	24.9	35.3
4:05	34.83	23.9	37.0
4:07	34.88	23.3	36.1
4:10	34.92	24.9	35.3
4:12	34.96	23.2	34.6
4:15	35.00	18.0	35.3
4:17	35.04	17.6	34.5
4:20	35.08	14.2	34.5
4:22	35.13	18.0	35.3
4:25	35.17	18.7	36.9
4:27	35.21	14.5	35.3
4:30	35.25	15.0	36.9
4:32	35.29	15.0	36.9
4:35	35.33	13.9	37.0
4:37	35.38	21.9	36.1
4:40	35.42	27.8	34.5
4:45	35.50	29.6	33.2
4:47	35.54	24.4	34.5
4:50	35.58	19.7	35.3
4:53	35.63	13.9	33.7
4:55	35.67	8.2	20.7
4:57	35.71	11.0	35.3
5:00	35.75	13.2	34.4
5:02	35.79	13.2	34.4
5:05	35.83	10.5	32.9
5:07	35.88	11.2	32.5
5:10	35.92	7.7	33.2
5:12	35.96	7.5	35.3
5:15	36.00	7.5	35.3

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
28-May-80			
5:17	36.04	4.0	33.2
5:20	36.08	7.7	33.2
5:22	36.13	11.2	32.5
5:25	36.17	10.6	33.7
5:27	36.21	10.8	31.1
5:30	36.25	10.5	32.9
5:32	36.29	12.9	30.6
5:35	36.33	12.9	30.6
5:37	36.38	13.9	33.7
5:40	36.42	11.3	29.6
5:42	36.46	15.0	33.2
5:45	36.50	10.6	30.4
5:47	36.54	14.2	31.1
5:50	36.58	11.0	31.8
5:52	36.63	11.0	35.3
5:55	36.67	11.2	32.5
5:57	36.71	11.0	31.8
6:00	36.75	11.0	31.8
6:02	36.79	11.0	31.8
6:05	36.83	13.9	33.7
6:07	36.88	19.3	34.4
6:10	36.92	21.4	31.8
6:15	37.00	27.2	30.4
6:17	37.04	24.9	32.6
6:20	37.08	24.7	33.5
6:22	37.13	25.9	29.1
6:25	37.17	25.3	31.4
6:27	37.21	26.5	30.2
6:30	37.25	28.0	32.0
6:32	37.29	23.2	27.0
6:35	37.33	21.0	27.8
6:37	37.38	22.8	29.1
6:40	37.42	22.3	29.6
6:42	37.46	23.9	30.4
6:45	37.50	21.3	27.0
6:47	37.54	16.6	29.1
6:50	37.58	13.7	26.6
6:52	37.63	13.4	29.1
6:55	37.67	16.6	25.9
6:57	37.71	10.5	26.6
7:00	37.75	11.0	24.9
7:02	37.79	7.5	28.4
7:05	37.83	11.0	28.4
7:07	37.88	10.8	27.8
7:10	37.92	11.2	32.5
7:12	37.96	7.3	30.4
7:15	38.00	10.5	26.6
7:17	38.04	10.6	27.2
7:20	38.08	10.6	30.4
7:22	38.13	10.6	30.4
7:25	38.17	10.8	27.8
7:27	38.21	10.8	31.1
7:30	38.25	10.6	30.4
7:35	38.33	9.9	27.7
7:37	38.38	7.7	29.6
7:42	38.46	7.5	28.4
7:45	38.50	7.3	30.4
7:47	38.54	10.1	28.4
7:50	38.58	10.1	28.4
7:52	38.63	10.6	30.4
7:55	38.67	11.9	31.4
7:57	38.71	11.2	29.0
8:00	38.75	11.0	28.4
8:02	38.79	7.1	29.1
8:05	38.83	10.8	27.8
8:07	38.88	11.0	31.8
8:10	38.92	8.5	31.0
8:12	38.96	8.7	29.8

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
28-May-80			
8:15	39.00	12.4	34.5
8:17	39.04	10.1	25.3
8:20	39.08	15.0	29.6
8:22	39.13	16.0	32.0
8:25	39.17	7.8	30.8
8:27	39.21	11.7	27.0
8:30	39.25	16.0	28.0
8:32	39.29	15.3	31.0
8:35	39.33	13.4	28.8
8:37	39.38	13.2	32.9
8:40	39.42	23.9	33.7
8:42	39.46	21.4	25.8
8:45	39.50	20.6	30.4
8:47	39.54	13.4	25.1
8:50	39.58	14.5	33.2
8:52	39.63	17.6	26.6
8:55	39.67	20.6	27.2
8:57	39.71	24.9	33.3
9:00	39.75	25.4	29.6
9:02	39.79	30.1	34.5
9:05	39.83	30.8	34.6
9:07	39.88	22.1	31.0
9:10	39.92	16.2	31.6
9:12	39.96	24.3	31.0
9:15	40.00	18.8	33.5
9:17	40.04	22.3	33.2
9:20	40.08	22.7	33.9
9:22	40.13	19.7	35.3
9:25	40.17	20.2	33.6
9:27	40.21	18.6	33.1
9:30	40.25	18.4	29.8
9:32	40.29	11.7	30.8
9:35	40.33	13.9	37.0
9:37	40.38	9.9	36.4
9:40	40.42	9.9	36.4
9:42	40.46	7.1	34.4
9:45	40.50	10.6	33.7
9:47	40.54	8.0	36.0
9:50	40.58	9.9	33.5
9:52	40.63	8.5	33.2
9:55	40.67	8.7	32.1
9:57	40.71	6.8	34.5
10:00	40.75	4.0	31.1
10:05	40.83	7.1	32.2
10:07	40.88	6.3	33.2
10:10	40.92	6.6	32.6
10:12	40.96	7.3	30.4
10:15	41.00	8.4	30.1
10:17	41.04	7.4	34.5
10:20	41.08	6.4	32.1
10:22	41.13	5.8	31.2
10:25	41.17	5.8	31.6
10:27	41.21	5.8	31.2
10:30	41.25	6.2	32.1
10:32	41.29	6.8	31.8
10:35	41.33	7.6	32.5
10:37	41.38	7.7	29.6
10:40	41.42	7.5	31.8
10:42	41.46	7.3	30.4
10:45	41.50	7.5	31.8
10:47	41.54	7.0	30.6
10:50	41.58	7.0	30.6
10:52	41.63	7.3	30.4
10:55	41.67	6.1	20.7
10:57	41.71	7.4	31.1
11:00	41.75	7.2	32.9
11:02	41.79	7.2	26.6
11:05	41.83	7.3	27.2

Annex 1.8 continued. Sequential vertical positions of Fish 4

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)
28-May-80				28-May-80			
11:07	41.88	7.8	30.8	14:45	45.50	23.2	23.2
11:10	41.92	7.8	30.2	15:00	45.75	23.9	23.9
11:12	41.96	7.1	31.4	15:15	46.00	25.8	25.8
11:15	42.00	6.9	32.7	15:30	46.25	24.7	24.7
11:17	42.04	7.1	29.1	15:45	46.50	23.2	23.2
11:20	42.08	7.5	24.9	16:00	46.75	27.0	27.0
11:22	42.13	7.3	30.4	16:15	47.00	23.2	23.2
11:25	42.17	4.0	30.4	16:30	47.25	22.3	22.3
11:27	42.21	7.3	30.4	16:45	47.50	23.9	23.9
11:30	42.25	6.3	33.2	17:00	47.75	22.9	22.9
11:32	42.29	6.2	32.1	17:15	48.00	24.7	24.7
11:35	42.33	6.4	32.1	17:30	48.25	27.2	27.2
11:37	42.38	6.8	31.8	17:33	48.30	12.9	24.7
11:40	42.42	11.0	31.8	17:35	48.33	12.9	24.7
11:42	42.46	16.3	36.7	17:37	48.38	10.6	23.9
11:45	42.50	19.7	35.3	17:40	48.42	11.3	26.0
11:47	42.54	15.5	41.1	17:42	48.46	12.6	25.4
11:50	42.58	15.9	33.5	17:45	48.50	12.6	25.4
11:52	42.63	15.0	29.6	17:47	48.54	11.0	24.9
11:55	42.67	18.0	31.8	17:52	48.63	9.6	26.3
11:57	42.71	27.0	30.8				
12:00	42.75	21.4	31.8				
12:02	42.79	22.8	32.2				
12:05	42.83	29.6	33.2				
12:05	42.84	33.2	33.2				
12:07	42.88	33.3	33.3				
12:10	42.92	33.9	33.9				
12:12	42.96	28.4	31.8				
12:15	43.00	23.5	31.8				
12:17	43.04	23.9	30.4				
12:20	43.08	27.5	31.4				
12:21	43.10	31.4	31.4				
12:22	43.13	30.8	30.8				
12:24	43.15	30.8	30.8				
12:25	43.17	30.4	30.4				
12:27	43.21	29.6	29.6				
12:30	43.25	20.2	28.3				
12:32	43.29	29.8	29.8				
12:35	43.33	29.6	29.6				
12:37	43.38	30.1	30.1				
12:40	43.42	33.3	33.3				
12:42	43.46	24.1	28.0				
12:45	43.50	15.0	29.6				
12:47	43.54	16.0	28.0				
12:50	43.58	19.7	27.5				
12:52	43.63	22.1	26.7				
12:55	43.67	17.3	27.2				
12:57	43.71	15.9	27.7				
13:00	43.75	17.3	27.2				
13:02	43.79	18.7	29.6				
13:05	43.83	18.7	26.0				
13:07	43.88	20.6	27.2				
13:10	43.92	24.7	27.7				
13:12	43.96	22.7	26.5				
13:15	44.00	21.9	25.4				
13:17	44.04	23.9	23.9				
13:20	44.08	27.0	27.0				
13:22	44.13	24.9	24.9				
13:25	44.17	26.0	26.0				
13:27	44.21	26.2	26.2				
13:30	44.25	26.2	26.2				
13:32	44.29	22.7	22.7				
13:35	44.33	22.5	22.5				
13:37	44.38	24.9	24.9				
13:45	44.50	28.4	28.4				
14:00	44.75	22.1	22.1				
14:15	45.00	25.4	25.4				
14:30	45.25	18.3	18.3				

**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)
29-May-80				30-May-80				31-May-80			
17:15	0.00	52.412	2.303	10:15	17.00	52.583	2.403	3:15	34.00	52.741	2.418
17:30	0.25	52.413	2.303	10:30	17.25	52.583	2.402	3:30	34.25	52.753	2.411
17:45	0.50	52.414	2.300	10:45	17.50	52.583	2.402	4:30	35.25	52.787	2.409
18:00	0.75	52.413	2.301	11:00	17.75	52.583	2.402	4:45	35.50	52.796	2.407
18:15	1.00	52.413	2.297	11:15	18.00	52.583	2.401	5:00	35.75	52.803	2.409
18:30	1.25	52.413	2.300	11:30	18.25	52.583	2.401	5:15	36.00	52.810	2.408
18:45	1.50	52.413	2.299	11:45	18.50	52.583	2.402	5:30	36.25	52.814	2.409
19:00	1.75	52.413	2.301	12:00	18.75	52.583	2.402	5:45	36.50	52.818	2.409
19:15	2.00	52.413	2.301	12:15	19.00	52.583	2.401	6:00	36.75	52.818	2.407
19:30	2.25	52.413	2.300	12:30	19.25	52.583	2.402	6:15	37.00	52.818	2.409
19:45	2.50	52.413	2.303	12:45	19.50	52.583	2.402	6:30	37.25	52.818	2.410
20:00	2.75	52.413	2.302	13:00	19.75	52.583	2.401	6:45	37.50	52.818	2.411
20:15	3.00	52.413	2.299	13:15	20.00	52.580	2.407	7:00	37.75	52.818	2.409
20:30	3.25	52.414	2.305	13:30	20.25	52.580	2.407	7:15	38.00	52.818	2.409
20:45	3.50	52.415	2.307	13:45	20.50	52.583	2.401	7:30	38.25	52.818	2.411
21:00	3.75	52.415	2.309	14:00	20.75	52.583	2.401	7:45	38.50	52.818	2.410
21:15	4.00	52.414	2.301	14:15	21.00	52.583	2.401	8:00	38.75	52.818	2.410
21:30	4.25	52.415	2.307	14:30	21.25	52.584	2.401	8:15	39.00	52.818	2.410
21:45	4.50	52.415	2.310	14:45	21.50	52.591	2.402	8:30	39.25	52.818	2.409
22:00	4.75	52.415	2.305	15:00	21.75	52.599	2.402	8:45	39.50	52.815	2.412
22:15	5.00	52.416	2.313	15:15	22.00	52.607	2.403	9:00	39.75	52.813	2.415
22:30	5.25	52.416	2.306	15:30	22.25	52.613	2.403	9:15	40.00	52.810	2.419
22:45	5.50	52.416	2.307	15:45	22.50	52.622	2.405	9:30	40.25	52.805	2.425
23:00	5.75	52.416	2.307	16:00	22.75	52.631	2.404	9:45	40.50	52.804	2.426
23:15	6.00	52.417	2.308	16:15	23.00	52.639	2.404	10:00	40.75	52.801	2.429
23:30	6.25	52.418	2.304	16:30	23.25	52.648	2.404	10:15	41.00	52.798	2.431
23:45	6.50	52.421	2.314	16:45	23.50	52.654	2.407	10:30	41.25	52.796	2.432
30-May-80				17:00	23.75	52.661	2.409	10:45	41.50	52.797	2.430
0:00	6.75	52.423	2.312	17:15	24.00	52.667	2.408	11:00	41.75	52.797	2.431
0:15	7.00	52.426	2.314	17:30	24.25	52.670	2.410	11:15	42.00	52.796	2.433
0:30	7.25	52.429	2.322	17:45	24.50	52.671	2.411	11:30	42.25	52.796	2.433
0:45	7.50	52.434	2.322	18:00	24.75	52.671	2.409	11:45	42.50	52.795	2.435
1:00	7.75	52.443	2.327	18:15	25.00	52.671	2.411	12:00	42.75	52.795	2.435
1:15	8.00	52.452	2.331	18:30	25.25	52.671	2.411	12:15	43.00	52.795	2.435
1:30	8.25	52.459	2.333	18:45	25.50	52.673	2.405	12:30	43.25	52.796	2.433
1:45	8.50	52.468	2.336	19:00	25.75	52.671	2.411	12:45	43.50	52.796	2.433
2:00	8.75	52.476	2.337	19:15	26.00	52.673	2.412	13:00	43.75	52.799	2.432
2:15	9.00	52.486	2.343	19:30	26.25	52.671	2.408	13:15	44.00	52.801	2.431
2:30	9.25	52.497	2.351	19:45	26.50	52.672	2.407	13:30	44.25	52.804	2.431
2:45	9.50	52.505	2.360	20:00	26.75	52.669	2.414	13:45	44.50	52.810	2.428
3:00	9.75	52.515	2.364	20:15	27.00	52.667	2.417	14:00	44.75	52.815	2.426
3:15	10.00	52.524	2.367	20:30	27.25	52.667	2.417	14:15	45.00	52.822	2.425
3:30	10.25	52.536	2.379	20:45	27.50	52.669	2.408	14:30	45.25	52.829	2.425
3:45	10.50	52.542	2.383	21:00	27.75	52.673	2.399	14:45	45.50	52.837	2.427
4:00	10.75	52.549	2.381	21:15	28.00	52.669	2.407	15:00	45.75	52.845	2.425
4:15	11.00	52.555	2.382	21:30	28.25	52.667	2.411	15:15	46.00	52.857	2.422
4:30	11.25	52.562	2.384	21:45	28.50	52.666	2.417	15:30	46.25	52.866	2.423
4:45	11.50	52.568	2.389	22:00	28.75	52.664	2.423	15:45	46.50	52.875	2.424
5:00	11.75	52.573	2.391	22:15	29.00	52.665	2.420	16:00	46.75	52.884	2.425
5:15	12.00	52.577	2.391	22:30	29.25	52.665	2.418	16:15	47.00	52.891	2.426
5:30	12.25	52.578	2.389	22:45	29.50	52.664	2.421	16:30	47.25	52.897	2.426
5:45	12.50	52.578	2.392	23:00	29.75	52.663	2.422	16:45	47.50	52.904	2.428
6:00	12.75	52.579	2.392	23:15	30.00	52.663	2.426	17:00	47.75	52.910	2.429
6:15	13.00	52.578	2.391	23:30	30.25	52.662	2.429	17:15	48.00	52.916	2.435
6:30	13.25	52.578	2.389	23:45	30.50	52.662	2.425	17:30	48.25	52.923	2.435
6:45	13.50	52.578	2.392	31-May-80				17:45	48.50	52.929	2.436
7:00	13.75	52.579	2.391	0:00	30.75	52.660	2.431	18:00	48.75	52.933	2.442
7:15	14.00	52.577	2.390	0:15	31.00	52.664	2.418	18:15	49.00	52.937	2.446
7:30	14.25	52.578	2.391	0:30	31.25	52.662	2.426	18:30	49.25	52.941	2.452
7:45	14.50	52.578	2.391	0:45	31.50	52.667	2.418	18:45	49.50	52.944	2.456
8:00	14.75	52.577	2.393	1:00	31.75	52.676	2.405	19:00	49.75	52.946	2.461
8:15	15.00	52.577	2.391	1:15	32.00	52.681	2.406	19:15	50.00	52.947	2.468
8:30	15.25	52.583	2.401	1:30	32.25	52.686	2.408	19:30	50.25	52.947	2.467
8:45	15.50	52.583	2.401	1:45	32.50	52.693	2.410	19:45	50.50	52.948	2.465
9:00	15.75	52.584	2.396	2:00	32.75	52.700	2.411	20:00	50.75	52.949	2.463
9:15	16.00	52.583	2.403	2:15	33.00	52.708	2.401	20:15	51.00	52.944	2.473
9:30	16.25	52.582	2.403	2:30	33.25	52.717	2.405	20:30	51.25	52.944	2.473
9:45	16.50	52.582	2.403	2:45	33.50	52.727	2.411				
10:00	16.75	52.583	2.403	3:00	33.75	52.734	2.417				

### 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)
29-May-80				29-May-80				30-May-80			
17:07	0.00	35.3	55.8	23:45	6.62	55.8	55.8	2:30	9.38	16.2	54.2
17:10	0.04	38.7	59.1	23:52	6.75	52.2	55.2	2:32	9.42	20.7	50.8
17:12	0.08	38.4	56.6	23:55	6.79	54.6	54.6	2:35	9.46	32.0	51.8
17:15	0.12	44.9	58.7	23:57	6.83	51.9	55.0	2:37	9.50	24.9	52.4
17:19	0.20	55.7	55.7	30-May-80				2:40	9.54	21.4	45.6
17:20	0.21	58.0	58.0	0:00	6.88	55.2	55.2	2:42	9.58	19.0	52.4
17:21	0.22	60.2	60.2	0:04	6.94	54.2	54.2	2:45	9.63	12.4	50.8
17:22	0.25	60.5	60.5	0:05	6.96	55.2	55.2	2:47	9.67	9.4	51.9
17:25	0.29	63.5	63.5	0:07	7.00	55.0	55.0	2:50	9.71	10.5	51.9
17:27	0.33	61.4	61.4	0:10	7.04	50.8	53.4	2:52	9.75	11.7	49.7
17:30	0.37	60.9	60.9	0:12	7.08	51.2	54.5	2:55	9.79	11.7	49.7
17:32	0.42	57.0	57.0	0:15	7.13	50.9	56.5	2:57	9.83	15.3	56.0
17:35	0.46	55.7	55.7	0:17	7.17	50.6	53.6	3:00	9.88	15.5	52.2
17:37	0.50	53.9	53.9	0:20	7.21	46.7	55.0	3:03	9.93	14.5	52.4
17:40	0.54	50.0	53.2	0:22	7.25	45.4	53.4	3:05	9.96	11.7	49.7
17:42	0.58	51.8	51.8	0:25	7.29	43.4	49.3	3:07	10.00	14.5	38.7
17:45	0.62	56.5	56.5	0:27	7.33	45.1	53.7	3:10	10.04	13.8	51.9
17:47	0.67	49.0	52.4	0:30	7.38	39.3	53.7	3:12	10.08	12.6	46.7
17:50	0.71	51.8	51.8	0:32	7.42	40.0	51.8	3:15	10.12	15.0	47.7
17:52	0.75	50.0	56.4	0:35	7.46	42.2	55.8	3:17	10.17	12.0	51.8
17:55	0.79	51.9	54.5	0:37	7.50	39.6	53.6	3:20	10.21	11.9	47.9
17:56	0.81	54.5	54.5	0:40	7.54	39.2	54.6	3:22	10.25	14.5	50.4
17:57	0.83	53.9	53.9	0:42	7.58	40.5	54.8	3:25	10.29	10.6	46.7
18:00	0.87	54.8	54.8	0:45	7.63	39.6	53.6	3:27	10.33	15.8	50.8
18:02	0.92	55.7	55.7	0:47	7.67	40.5	54.8	3:30	10.37	22.8	47.6
18:05	0.96	57.8	57.8	0:50	7.71	40.5	54.8	3:32	10.42	21.8	50.9
18:07	1.00	56.0	56.0	0:52	7.75	41.3	52.4	3:35	10.46	30.2	41.3
18:10	1.04	53.9	53.9	0:55	7.79	47.7	54.8	3:37	10.50	40.3	53.2
18:12	1.08	58.1	58.1	0:57	7.83	40.3	53.2	3:40	10.54	35.5	49.5
18:15	1.12	60.1	60.1	1:00	7.88	36.9	54.8	3:42	10.58	17.3	46.7
18:17	1.17	57.4	57.4	1:02	7.92	32.5	53.6	3:45	10.62	20.0	51.8
18:20	1.21	58.1	58.1	1:05	7.96	27.0	53.5	3:47	10.67	20.7	50.8
18:22	1.25	53.6	53.6	1:07	8.00	22.3	54.8	3:50	10.71	21.0	51.2
18:25	1.29	58.4	58.4	1:10	8.04	18.7	54.8	3:52	10.75	22.7	52.4
18:27	1.33	56.0	56.0	1:12	8.08	15.0	54.8	3:55	10.79	19.0	48.7
18:30	1.37	60.2	60.2	1:15	8.13	14.7	53.6	3:57	10.83	29.6	54.8
18:32	1.42	58.1	58.1	1:17	8.17	15.8	54.6	4:00	10.87	25.4	53.6
18:35	1.46	57.0	57.0	1:20	8.21	12.0	51.8	4:02	10.92	22.7	48.7
18:37	1.50	60.2	60.2	1:22	8.25	14.5	52.4	4:05	10.96	20.2	54.5
18:40	1.54	58.1	58.1	1:25	8.29	15.5	53.5	4:07	11.00	20.7	53.4
18:42	1.58	58.1	58.1	1:27	8.33	13.9	53.2	4:10	11.04	18.4	52.2
18:45	1.62	58.1	58.1	1:30	8.38	15.0	54.8	4:12	11.08	21.8	53.7
18:47	1.67	55.5	55.5	1:32	8.42	12.9	50.9	4:15	11.12	26.0	51.2
18:50	1.71	58.1	58.1	1:35	8.46	11.0	45.6	4:17	11.17	21.9	50.1
18:52	1.75	58.1	58.1	1:37	8.50	13.9	56.4	4:20	11.21	20.7	53.4
18:55	1.79	58.1	58.1	1:40	8.54	13.9	56.4	4:22	11.25	21.8	50.9
19:00	1.87	59.1	59.1	1:42	8.58	11.3	51.2	4:25	11.29	26.0	44.1
19:15	2.12	56.9	56.9	1:45	8.63	13.9	53.2	4:27	11.33	25.9	53.6
19:30	2.37	60.9	60.9	1:47	8.67	11.5	52.4	4:30	11.37	29.1	53.6
19:45	2.62	62.1	62.1	1:50	8.71	13.7	48.8	4:32	11.42	33.7	53.2
20:00	2.87	60.2	60.2	1:52	8.75	11.7	46.0	4:35	11.46	38.7	55.8
20:15	3.12	62.1	62.1	1:55	8.79	14.2	47.9	4:37	11.50	43.9	52.2
20:30	3.37	57.0	57.0	1:57	8.83	15.3	56.0	4:40	11.54	45.4	50.8
20:45	3.62	59.7	59.7	2:00	8.88	15.9	50.9	4:42	11.58	43.5	53.2
21:00	3.87	58.4	58.4	2:02	8.92	14.2	51.2	4:45	11.62	41.2	54.5
21:15	4.12	59.1	59.1	2:05	8.96	16.6	49.8	4:47	11.67	37.0	50.0
21:30	4.37	59.1	59.1	2:07	9.00	13.7	51.9	4:50	11.71	38.7	49.0
21:45	4.62	39.1	39.1	2:10	9.04	10.3	50.6	4:52	11.75	40.0	56.1
22:00	4.87	59.1	59.1	2:12	9.08	11.3	51.2	4:55	11.79	42.6	52.8
22:15	5.12	61.2	61.2	2:15	9.13	10.3	53.6	4:57	11.83	39.8	52.7
22:30	5.37	59.6	59.6	2:17	9.17	11.0	45.6	5:00	11.87	34.2	53.6
22:45	5.62	60.5	60.5	2:20	9.21	11.5	52.4	5:02	11.92	46.3	52.2
23:00	5.87	58.0	58.0	2:22	9.25	19.7	47.6	5:05	11.96	46.6	57.1
23:15	6.12	56.9	56.9	2:25	9.29	21.4	52.4	5:07	12.00	45.6	51.9
23:30	6.37	52.9	52.9	2:27	9.33	11.7	57.2	5:10	12.04	44.1	54.8

Annex 1.10 continued. Sequential vertical positions of Fish 5

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)
30-May-80				30-May-80				30-May-80			
5:12	12.08	39.3	51.9	15:24	22.27	53.9	53.9	21:15	28.12	58.1	58.1
5:15	12.12	37.9	54.5	15:25	22.29	51.8	51.8	21:30	28.37	55.7	55.7
5:17	12.17	37.0	56.4	15:27	22.33	53.9	58.0	21:45	28.62	58.1	58.1
5:20	12.21	42.2	52.4	15:30	22.37	43.9	55.0	22:00	28.87	52.8	52.8
5:22	12.25	48.8	52.9	15:32	22.42	35.5	56.9	22:15	29.12	53.6	53.6
5:27	12.33	47.3	49.6	15:35	22.46	31.0	50.6	22:30	29.37	53.6	53.6
5:30	12.37	48.1	48.1	15:45	22.62	30.2	52.4	22:45	29.62	57.2	57.2
5:31	12.39	48.1	48.1	15:47	22.67	27.8	54.5	23:00	29.87	53.7	53.7
5:32	12.42	50.0	50.0	15:50	22.71	31.1	54.5	23:15	30.12	53.7	53.7
5:35	12.46	53.6	53.6	15:52	22.75	30.6	53.7	23:30	30.37	54.5	54.5
5:37	12.50	55.8	55.8	15:55	22.79	28.4	52.2	23:45	30.62	52.7	52.7
5:40	12.54	54.8	54.8	15:57	22.83	24.9	55.3	23:58	30.87	53.6	53.6
5:42	12.58	57.1	57.1	16:00	22.87	24.7	53.7	23:57	30.83	50.6	53.6
5:45	12.62	57.1	57.1	16:02	22.92	31.1	54.5	31-May-80			
6:00	12.87	57.1	57.1	16:05	22.96	27.8	54.5	0:00	30.88	45.4	53.4
6:15	13.12	53.5	53.5	16:07	23.00	30.4	53.2	0:05	30.96	45.6	55.0
7:00	13.87	57.1	57.1	16:10	23.04	35.3	52.4	0:07	31.00	45.4	53.4
7:15	14.12	54.8	54.8	16:12	23.08	32.9	51.9	0:10	31.04	41.5	51.9
7:30	14.37	54.5	54.5	16:15	23.12	32.6	52.8	0:12	31.08	39.3	48.0
7:45	14.62	60.2	60.2	16:17	23.17	29.0	50.8	0:15	31.13	36.9	47.7
8:00	14.87	59.6	59.6	16:22	23.25	30.1	52.8	0:17	31.17	47.4	51.7
8:15	15.12	55.8	55.8	16:27	23.33	29.8	52.2	0:20	31.21	44.1	54.5
8:30	15.37	60.2	60.2	16:30	23.37	29.1	47.6	0:22	31.25	42.8	52.8
8:45	15.62	56.5	56.5	16:32	23.42	27.8	51.2	0:25	31.29	41.1	49.5
9:00	15.87	57.7	57.7	16:35	23.46	27.0	52.2	0:27	31.33	41.4	56.6
9:15	16.12	55.8	55.8	16:37	23.50	26.6	52.7	0:30	31.38	34.2	53.6
9:30	16.37	61.4	61.4	16:40	23.54	26.6	52.7	0:32	31.42	32.6	50.4
9:45	16.62	58.1	58.1	16:42	23.58	22.9	51.9	0:35	31.46	31.8	50.8
10:00	16.87	56.0	56.0	16:45	23.62	24.7	53.7	0:37	31.50	31.8	53.4
10:15	17.12	56.4	56.4	16:47	23.67	22.8	50.6	0:40	31.54	30.9	51.9
10:30	17.37	57.0	57.0	16:50	23.71	27.8	51.2	0:42	31.58	34.5	53.4
10:45	17.62	56.4	56.4	16:52	23.75	21.8	53.7	0:45	31.63	33.5	53.7
11:00	17.87	58.4	58.4	16:55	23.79	21.8	53.7	0:47	31.67	34.5	53.4
11:15	18.12	59.6	59.6	16:57	23.83	22.3	49.3	0:50	31.71	32.7	52.2
11:30	18.37	57.1	57.1	17:00	23.87	26.6	51.9	0:52	31.75	35.2	55.3
11:45	18.62	58.1	58.1	17:02	23.92	24.9	49.0	0:55	31.79	37.9	54.2
12:00	18.87	56.4	56.4	17:05	23.96	26.3	53.4	0:57	31.83	37.7	55.3
12:15	19.12	55.0	55.0	17:07	24.00	25.6	54.5	1:00	31.88	37.7	52.8
12:30	19.37	59.6	59.6	17:10	24.04	24.1	55.0	1:02	31.92	40.0	53.4
12:45	19.62	56.6	56.6	17:15	24.12	30.4	56.4	1:05	31.96	41.1	55.0
13:00	19.87	57.1	57.1	17:17	24.17	29.8	55.0	1:07	32.00	43.4	55.2
13:15	20.12	53.6	53.6	17:20	24.21	32.2	53.6	1:10	32.04	41.5	51.9
13:30	20.37	53.7	53.7	17:22	24.25	38.4	53.5	1:12	32.08	40.0	50.8
13:45	20.62	54.8	54.8	17:25	24.29	37.0	53.2	1:15	32.13	42.2	53.7
14:00	20.87	53.2	53.2	17:30	24.37	47.6	53.6	1:17	32.17	40.4	52.2
14:15	21.12	54.6	54.6	17:32	24.41	64.6	64.6	1:20	32.21	41.2	54.5
14:30	21.37	49.0	54.7	17:32	24.42	64.6	64.6	1:22	32.25	37.3	48.1
14:31	21.39	54.7	54.7	17:35	24.46	54.8	54.8	1:25	32.29	38.3	49.5
14:32	21.42	47.0	53.9	17:37	24.50	58.4	58.4	1:27	32.33	33.7	46.7
14:35	21.46	48.7	53.9	17:40	24.54	55.0	55.0	1:30	32.38	38.4	50.6
14:37	21.50	42.8	55.3	17:42	24.58	53.5	53.5	1:32	32.42	36.4	50.9
14:41	21.56	38.4	56.6	17:45	24.62	54.5	54.5	1:35	32.46	33.7	50.0
14:42	21.58	37.4	52.2	18:00	24.87	57.1	57.1	1:37	32.50	36.4	54.8
14:45	21.62	32.2	50.6	18:15	25.12	56.1	56.1	1:40	32.54	37.9	51.9
14:47	21.67	32.9	51.9	18:30	25.37	55.2	55.2	1:42	32.58	38.9	54.5
14:50	21.71	31.1	51.2	18:45	25.62	54.5	54.5	1:45	32.63	35.5	54.2
14:55	21.79	35.5	52.7	19:00	25.87	55.0	55.0	1:47	32.67	34.5	56.1
14:57	21.83	34.2	53.6	19:15	26.12	54.8	54.8	1:50	32.71	32.6	55.3
15:00	21.87	39.3	53.7	19:30	26.37	56.4	56.4	1:52	32.75	33.5	56.5
15:02	21.92	37.0	53.2	19:45	26.62	58.4	58.4	1:55	32.79	36.1	55.0
15:05	21.96	33.5	50.9	20:00	26.87	53.7	53.7	1:57	32.83	31.0	50.6
15:07	22.00	27.7	50.9	20:01	26.89	50.9	53.7	2:00	32.88	29.0	54.7
15:10	22.04	30.6	53.7	20:03	26.92	53.7	53.7	2:02	32.92	34.4	54.6
15:12	22.08	30.6	53.7	20:15	27.12	56.9	56.9	2:05	32.96	34.2	56.0
15:15	22.12	31.8	56.1	20:30	27.37	57.1	57.1	2:07	33.00	30.1	55.3
15:17	22.17	33.6	54.5	20:38	27.47	57.1	57.1	2:10	33.04	27.0	55.0
15:20	22.21	36.2	51.9	20:45	27.62	57.2	57.2	2:12	33.08	29.8	55.0
15:22	22.25	38.4	50.6	21:00	27.87	53.5	53.5	2:15	33.13	27.5	50.4

Annex 1.10 continued. Sequential vertical positions of Fish 5

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)
31-May-80				31-May-80				31-May-80			
2:17	33.17	28.3	51.9	6:30	37.38	52.7	52.7	14:30	45.38	37.0	50.0
2:20	33.21	29.8	51.9	6:45	37.63	50.8	50.8	14:32	45.42	39.3	48.8
2:22	33.25	26.6	51.9	7:00	37.88	50.2	50.2	14:35	45.46	37.0	46.7
2:25	33.29	28.4	52.2	7:15	38.13	51.2	51.2	14:37	45.50	36.1	46.6
2:27	33.33	29.0	53.6	7:30	38.38	51.2	51.2	14:40	45.54	34.5	50.8
2:30	33.38	29.8	55.0	7:45	38.63	56.4	56.4	14:42	45.58	30.7	47.3
2:32	33.42	23.9	53.2	8:00	38.88	51.9	51.9	14:45	45.63	30.1	45.4
2:35	33.46	21.8	53.7	8:15	39.13	54.6	54.6	14:47	45.67	32.2	47.6
2:37	33.50	21.4	52.4	8:30	39.38	51.2	51.2	14:50	45.71	17.4	26.9
2:40	33.54	24.9	52.4	8:45	39.63	48.7	48.7	14:52	45.75	24.9	47.9
2:42	33.58	30.4	56.4	9:00	39.88	44.5	44.5	14:55	45.79	25.7	48.8
2:45	33.63	32.9	55.0	9:15	40.13	50.6	50.6	14:57	45.83	23.6	48.8
2:47	33.67	26.6	51.9	9:30	40.38	53.6	53.6	15:00	45.88	23.5	44.9
2:50	33.71	23.9	50.0	9:45	40.63	54.5	54.5	15:02	45.92	23.3	45.6
3:00	33.88	27.2	50.0	10:00	40.88	52.4	52.4	15:05	45.96	28.4	42.2
3:04	33.94	26.3	50.8	10:15	41.13	52.2	52.2	15:07	46.00	24.1	43.9
3:05	33.96	21.8	48.0	10:30	41.38	53.6	53.6	15:10	46.04	23.5	42.7
3:10	34.04	34.5	50.8	10:45	41.63	40.3	40.3	15:12	46.08	24.7	39.3
3:12	34.08	17.9	50.8	11:00	41.88	49.0	49.0	15:15	46.13	24.4	41.2
3:15	34.13	30.1	52.8	11:15	42.13	49.0	49.0	15:17	46.17	26.0	44.1
3:17	34.17	28.3	51.9	11:30	42.38	50.9	50.9	15:20	46.21	25.9	44.5
3:28	34.35	37.7	52.8	11:45	42.63	52.4	52.4	15:22	46.25	19.3	43.4
3:35	34.47	27.5	50.4	12:00	42.88	50.9	50.9	15:25	46.29	20.1	39.3
3:37	34.50	25.9	49.6	12:15	43.13	52.2	52.2	15:27	46.33	23.6	35.3
3:43	34.60	26.3	50.8	12:30	43.38	48.0	48.0	15:30	46.38	19.7	38.4
3:45	34.63	24.7	48.0	12:40	43.54	43.5	48.0	15:32	46.42	17.5	38.9
3:47	34.67	24.7	48.0	12:42	43.58	41.5	48.8	15:35	46.46	21.8	42.2
3:50	34.71	28.3	49.3	12:45	43.63	42.8	47.9	15:37	46.50	17.6	37.9
3:55	34.80	29.0	50.1	12:47	43.67	46.7	49.5	15:40	46.54	19.7	38.4
3:57	34.83	25.4	50.1	12:50	43.71	45.1	48.0	15:42	46.58	24.4	37.9
4:08	35.01	17.9	50.8	12:52	43.75	48.0	50.9	15:45	46.63	23.5	37.3
4:10	35.04	19.7	52.8	12:55	43.79	50.9	50.9	15:47	46.67	20.7	40.0
4:22	35.25	11.9	52.8	12:57	43.83	49.5	52.2	15:50	46.71	16.2	37.4
4:27	35.33	11.3	49.6	13:00	43.88	46.7	52.2	15:52	46.75	15.9	36.4
4:30	35.38	11.6	51.2	13:02	43.92	44.0	48.8	15:55	46.79	14.5	37.7
4:32	35.42	11.6	51.2	13:05	43.96	42.0	48.5	15:57	46.83	9.4	38.9
4:35	35.46	11.3	54.2	13:07	44.00	41.2	50.2	16:00	46.88	21.3	38.3
4:37	35.50	9.2	52.8	13:10	44.04	43.5	48.0	16:02	46.92	23.5	37.3
4:40	35.54	12.4	50.8	13:12	44.08	41.5	51.2	16:05	46.96	22.3	35.2
4:42	35.58	12.1	44.1	13:15	44.13	44.0	51.2	16:07	47.00	21.8	36.4
4:45	35.63	22.8	50.6	13:17	44.17	42.8	50.4	16:10	47.04	24.1	38.3
4:47	35.67	26.3	50.8	13:20	44.21	46.7	52.2	16:12	47.08	36.4	39.3
4:50	35.71	23.5	51.9	13:22	44.25	45.1	50.9	16:15	47.13	37.9	37.9
4:52	35.75	24.9	52.8	13:25	44.29	46.3	52.2	16:17	47.17	33.2	37.7
4:55	35.79	31.7	51.2	13:27	44.33	46.7	52.2	16:20	47.21	35.5	35.5
4:57	35.83	36.4	50.9	13:30	44.38	52.2	52.2	16:25	47.29	32.5	38.0
5:00	35.88	40.4	49.3	13:31	44.39	52.2	52.2	16:27	47.33	27.4	38.9
5:02	35.92	47.6	50.6	13:32	44.42	48.0	53.7	16:30	47.38	21.8	36.4
5:05	35.96	39.3	50.9	13:35	44.46	49.5	52.2	16:32	47.42	26.0	36.9
5:07	36.00	39.3	50.9	13:40	44.54	45.4	50.4	16:35	47.46	24.4	41.2
5:10	36.04	38.4	50.6	13:42	44.58	48.1	50.8	16:37	47.50	23.5	40.0
5:12	36.08	38.4	47.6	13:45	44.63	49.3	51.9	16:40	47.54	24.7	39.3
5:15	36.13	46.0	46.0	13:47	44.67	46.7	52.2	16:42	47.58	24.4	41.2
5:15	36.13	46.0	46.0	13:50	44.71	45.1	53.7	16:45	47.63	20.7	40.0
5:16	36.15	49.0	52.4	13:52	44.75	45.6	51.9	16:47	47.67	22.9	41.5
5:17	36.17	52.4	52.4	13:55	44.79	44.1	51.2	16:50	47.71	20.1	42.5
5:25	36.29	33.7	46.7	14:00	44.88	43.4	48.7	16:52	47.75	23.3	39.3
5:30	36.38	33.7	50.0	14:02	44.92	44.9	51.9	16:55	47.79	20.1	42.5
5:37	36.50	44.1	51.9	14:05	44.96	46.3	52.2	16:57	47.83	19.7	41.4
5:42	36.58	45.4	45.4	14:07	45.00	43.5	53.2	17:00	47.88	17.3	40.3
5:45	36.63	53.5	53.5	14:10	45.04	46.7	53.2	17:02	47.92	16.2	40.4
5:47	36.67	50.1	50.1	14:12	45.08	40.3	50.0	17:05	47.96	16.2	40.4
5:50	36.71	55.0	55.0	14:15	45.13	37.9	47.9	17:07	48.00	19.7	41.4
5:52	36.75	53.2	53.2	14:17	45.17	39.1	48.8	17:10	48.04	17.3	40.3
5:55	36.79	53.7	53.7	14:20	45.21	38.5	48.8	17:12	48.08	16.2	40.4
5:57	36.83	55.2	55.2	14:22	45.25	38.5	46.8	17:15	48.13	17.3	40.3
6:00	36.88	53.6	53.6	14:25	45.29	37.9	47.3	17:17	48.17	15.9	39.3
6:15	37.13	50.8	50.8	14:27	45.33	38.3	46.7	17:20	48.21	13.9	40.3

*Annex 1.10 continued. Sequential vertical positions of Fish 5*

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
31-May-80			
17:22	48.25	15.9	42.2
17:25	48.29	15.9	42.2
17:27	48.33	16.9	42.5
17:30	48.38	16.9	42.5
17:32	48.42	20.1	45.6
17:35	48.46	18.4	43.9
17:37	48.50	20.6	43.5
17:40	48.54	17.3	43.5
17:42	48.58	18.4	43.9
17:45	48.63	15.9	42.2
17:47	48.67	14.7	43.1
17:50	48.71	15.2	40.0
17:52	48.75	15.8	41.2
17:55	48.79	13.7	42.5
17:57	48.83	11.3	44.1
18:00	48.88	13.2	43.4
18:02	48.92	13.7	42.5
18:05	48.96	16.9	42.5
18:07	49.00	15.9	42.2
18:10	49.04	16.2	40.4
18:12	49.08	16.9	42.5
18:15	49.13	16.9	42.5
18:17	49.17	15.9	42.2
18:20	49.21	17.3	40.3
18:22	49.25	16.6	41.4
18:25	49.29	15.9	42.2
18:27	49.33	18.0	42.2
18:30	49.38	16.6	41.4
18:32	49.42	17.3	40.3
18:35	49.46	15.5	38.3
18:37	49.50	17.3	40.3
18:40	49.54	15.5	41.1
18:42	49.58	15.9	42.2
18:45	49.63	14.5	40.3
18:47	49.67	13.7	39.3
18:50	49.71	13.4	38.4
18:52	49.75	13.4	38.4
18:55	49.79	17.3	43.5
18:57	49.83	15.9	39.3
19:00	49.88	16.2	40.4
19:02	49.92	16.2	43.4
19:05	49.96	15.9	42.2
19:07	50.00	15.2	40.0
19:10	50.04	20.6	40.3
19:12	50.08	29.0	40.0
19:15	50.13	31.8	40.0
19:17	50.17	36.4	39.3
19:22	50.25	41.1	41.1
19:25	50.29	38.0	38.0
19:27	50.33	39.8	39.8
19:30	50.38	39.8	39.8
19:45	50.63	42.8	42.8
20:00	50.88	37.0	37.0
20:15	51.13	39.6	39.6
20:30	51.38	40.3	40.3

*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)
12-Jun-80				13-Jun-80				14-Jun-80			
17:45	0.00	53.671	2.783	11:15	17.50	53.707	2.663	5:30	35.75	53.707	2.662
18:00	0.25	53.669	2.790	11:45	18.00	53.706	2.664	5:45	36.00	53.707	2.662
18:15	0.50	53.668	2.793	12:00	18.25	53.707	2.665	6:00	36.25	53.707	2.664
18:30	0.75	53.666	2.796	12:15	18.50	53.707	2.665	6:15	36.50	53.707	2.663
18:45	1.00	53.664	2.797	12:30	18.75	53.707	2.664	6:30	36.75	53.707	2.663
19:00	1.25	53.662	2.804	12:45	19.00	53.707	2.664	6:45	37.00	53.707	2.663
19:15	1.50	53.659	2.806	13:00	19.25	53.707	2.664	7:00	37.25	53.707	2.664
19:30	1.75	53.656	2.806	13:15	19.50	53.707	2.664	7:15	37.50	53.707	2.663
19:45	2.00	53.651	2.814	13:30	19.75	53.707	2.664	7:30	37.75	53.707	2.661
20:00	2.25	53.648	2.805	13:45	20.00	53.707	2.664	7:45	38.00	53.707	2.662
20:15	2.50	53.645	2.802	14:00	20.25	53.707	2.665	8:00	38.25	53.707	2.662
20:30	2.75	53.643	2.811	14:15	20.50	53.707	2.664	8:15	38.50	53.707	2.661
20:45	3.00	53.640	2.815	14:30	20.75	53.707	2.664	8:30	38.75	53.707	2.661
21:00	3.25	53.636	2.815	14:45	21.00	53.707	2.664	8:45	39.00	53.707	2.661
21:15	3.50	53.636	2.808	15:00	21.25	53.707	2.664	9:00	39.25	53.707	2.662
21:30	3.75	53.636	2.799	15:15	21.50	53.707	2.664	9:15	39.50	53.707	2.660
21:45	4.00	53.635	2.772	15:30	21.75	53.707	2.664	9:30	39.75	53.707	2.662
22:00	4.25	53.635	2.770	15:45	22.00	53.707	2.664	9:45	40.00	53.705	2.661
22:15	4.50	53.638	2.758	16:00	22.25	53.707	2.664	10:00	40.25	53.707	2.662
22:30	4.75	53.635	2.759	16:15	22.50	53.707	2.665	10:15	40.50	53.707	2.662
22:45	5.00	53.639	2.745	16:30	22.75	53.707	2.664	10:30	40.75	53.707	2.660
23:00	5.25	53.640	2.751	16:45	23.00	53.707	2.665	10:45	41.00	53.707	2.661
23:15	5.50	53.645	2.735	17:00	23.25	53.708	2.662	11:00	41.25	53.707	2.661
23:30	5.75	53.647	2.738	17:15	23.50	53.707	2.664	11:15	41.50	53.707	2.661
23:45	6.00	53.645	2.762	17:30	23.75	53.707	2.665	11:30	41.75	53.707	2.661
13-Jun-80				17:45	24.00	53.707	2.665	11:45	42.00	53.707	2.662
0:00	6.25	53.647	2.769	18:00	24.25	53.707	2.667	12:00	42.25	53.707	2.661
0:15	6.50	53.653	2.751	18:15	24.50	53.707	2.666	12:15	42.50	53.706	2.661
0:30	6.75	53.658	2.739	18:30	24.75	53.707	2.667	12:30	42.75	53.707	2.662
0:45	7.00	53.661	2.744	18:45	25.00	53.707	2.665	12:45	43.00	53.707	2.661
1:00	7.25	53.663	2.748	19:00	25.25	53.707	2.661	13:00	43.25	53.707	2.661
1:15	7.50	53.668	2.742	19:15	25.50	53.707	2.660	13:15	43.50	53.707	2.661
1:30	7.75	53.680	2.710	19:30	25.75	53.708	2.666	13:30	43.75	53.707	2.661
1:45	8.00	53.683	2.716	19:45	26.00	53.707	2.665	13:45	44.00	53.707	2.660
2:00	8.25	53.690	2.711	20:00	26.25	53.705	2.682	14:00	44.25	53.707	2.662
2:15	8.50	53.692	2.705	21:00	27.25	53.707	2.672	14:15	44.50	53.707	2.662
2:30	8.75	53.694	2.693	21:15	27.50	53.707	2.669	14:30	44.75	53.707	2.662
2:45	9.00	53.697	2.688	21:30	27.75	53.707	2.658	14:45	45.00	53.707	2.661
3:00	9.25	53.702	2.678	21:45	28.00	53.704	2.681	15:00	45.25	53.707	2.663
3:15	9.50	53.706	2.657	22:00	28.25	53.703	2.682	15:15	45.50	53.707	2.662
3:45	10.00	53.706	2.673	22:15	28.50	53.706	2.667	15:30	45.75	53.707	2.663
4:00	10.25	53.706	2.664	22:30	28.75	53.701	2.690	15:45	46.00	53.707	2.662
4:15	10.50	53.707	2.659	22:45	29.00	53.704	2.674	16:00	46.25	53.707	2.663
4:30	10.75	53.707	2.664	23:00	29.25	53.700	2.696	16:15	46.50	53.707	2.662
4:45	11.00	53.706	2.664	23:15	29.50	53.701	2.688	16:30	46.75	53.707	2.663
5:00	11.25	53.707	2.663	23:30	29.75	53.701	2.684	16:45	47.00	53.707	2.662
5:15	11.50	53.707	2.665	23:45	30.00	53.708	2.672	17:00	47.25	53.707	2.662
5:30	11.75	53.707	2.664	14-Jun-80				17:15	47.50	53.707	2.663
5:45	12.00	53.707	2.664	0:00	30.25	53.711	2.662	17:30	47.75	53.707	2.663
6:00	12.25	53.707	2.665	0:15	30.50	53.708	2.636	17:45	48.00	53.707	2.663
6:15	12.50	53.707	2.664	0:30	30.75	53.714	2.619	18:00	48.25	53.707	2.664
6:30	12.75	53.707	2.666	0:45	31.00	53.712	2.625	18:15	48.50	53.707	2.665
6:45	13.00	53.707	2.665	1:00	31.25	53.708	2.637	18:30	48.75	53.707	2.661
7:00	13.25	53.707	2.664	1:15	31.50	53.707	2.648	18:45	49.00	53.707	2.663
7:15	13.50	53.707	2.663	1:30	31.75	53.710	2.657	19:00	49.25	53.707	2.664
7:30	13.75	53.707	2.663	1:45	32.00	53.709	2.661	19:15	49.50	53.707	2.661
7:45	14.00	53.707	2.664	2:00	32.25	53.708	2.667	19:30	49.75	53.707	2.657
8:00	14.25	53.707	2.664	2:15	32.50	53.708	2.655	19:45	50.00	53.707	2.664
8:15	14.50	53.707	2.664	2:30	32.75	53.708	2.651	20:00	50.25	53.707	2.671
8:30	14.75	53.707	2.665	2:45	33.00	53.708	2.648	20:15	50.50	53.707	2.670
8:45	15.00	53.707	2.664	3:00	33.25	53.708	2.655	20:30	50.75	53.707	2.670
9:00	15.25	53.707	2.664	3:15	33.50	53.707	2.654	20:45	51.00	53.706	2.669
9:15	15.50	53.707	2.665	3:30	33.75	53.707	2.660	21:00	51.25	53.707	2.666
9:30	15.75	53.707	2.665	3:45	34.00	53.706	2.667	21:15	51.50	53.708	2.668
9:45	16.00	53.706	2.665	4:00	34.25	53.707	2.662	21:30	51.75	53.707	2.664
10:00	16.25	53.707	2.665	4:15	34.50	53.708	2.657	21:45	52.00	53.706	2.673
10:15	16.50	53.707	2.665	4:30	34.75	53.707	2.659	22:00	52.25	53.705	2.677
10:30	16.75	53.707	2.663	4:45	35.00	53.707	2.662	22:15	52.50	53.705	2.677
10:45	17.00	53.707	2.664	5:00	35.25	53.707	2.663				
11:00	17.25	53.707	2.664	5:15	35.50	53.707	2.664				

*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)
12-Jun-80				12-Jun-80				12-Jun-80			
17:36	0.00	19.3	43.4	20:27	2.86	6.7	38.9	23:12	5.61	9.9	36.4
17:43	0.12	4.0	42.5	20:30	2.90	6.8	37.3	23:15	5.65	10.5	36.1
17:45	0.15	4.0	41.2	20:32	2.94	7.1	38.4	23:17	5.69	7.8	34.6
17:47	0.19	4.0	41.2	20:35	2.98	7.5	31.8	23:20	5.73	4.0	33.3
17:50	0.23	4.0	43.4	20:37	3.03	7.3	40.3	23:22	5.78	4.0	36.9
17:52	0.28	4.0	38.7	20:40	3.07	4.0	40.4	23:25	5.82	7.3	37.0
17:55	0.32	4.0	41.5	20:42	3.11	4.0	37.9	23:27	5.86	4.0	34.5
17:57	0.36	4.0	40.3	20:45	3.15	4.0	38.7	23:30	5.90	4.0	30.4
18:00	0.40	4.0	43.4	20:47	3.19	4.0	37.9	23:32	5.94	8.0	36.0
18:02	0.44	4.0	41.2	20:50	3.23	4.0	34.4	23:35	5.98	4.0	43.1
18:05	0.48	4.0	41.5	20:52	3.28	7.1	37.4	23:37	6.03	4.0	31.1
18:07	0.53	7.3	40.3	20:55	3.32	10.8	34.5	23:40	6.07	4.0	31.1
18:10	0.57	4.0	40.3	20:57	3.36	15.0	33.2	23:42	6.11	4.0	32.5
18:12	0.61	11.3	40.5	21:00	3.40	29.6	33.2	23:45	6.15	4.0	35.3
18:15	0.65	4.0	40.0	21:02	3.44	33.7	37.0	23:47	6.19	4.0	31.8
18:17	0.69	4.0	41.2	21:05	3.48	36.2	38.9	23:50	6.23	4.0	34.5
18:20	0.73	21.8	39.3	21:07	3.53	35.5	37.9	23:52	6.28	4.0	32.5
18:22	0.78	25.3	40.4	21:10	3.57	36.6	39.1	23:55	6.32	4.0	35.3
18:25	0.82	18.3	39.6	21:12	3.61	33.6	36.2	23:57	6.36	4.0	35.3
18:27	0.86	15.9	39.3	21:15	3.65	34.4	37.4	13-Jun-80			
18:30	0.90	12.9	42.2	21:17	3.69	34.5	34.5	0:00	6.40	4.0	32.5
18:35	0.98	12.2	40.8	21:20	3.73	34.6	38.4	0:02	6.44	4.0	35.3
18:37	1.03	26.2	35.1	21:22	3.78	31.8	38.7	0:05	6.48	4.0	35.3
18:40	1.07	16.3	36.7	21:25	3.82	25.3	37.4	0:07	6.53	4.0	32.5
18:42	1.11	10.6	40.3	21:27	3.86	22.3	37.4	0:10	6.57	4.0	35.3
18:45	1.15	12.9	65.7	21:30	3.90	31.8	35.3	0:12	6.61	4.0	34.5
18:47	1.19	4.0	41.5	21:32	3.94	35.3	39.2	0:15	6.65	4.0	36.9
18:50	1.23	4.0	42.7	21:35	3.98	36.0	36.0	0:17	6.69	4.0	33.9
18:52	1.28	4.0	43.9	21:37	4.03	24.9	38.7	0:20	6.73	4.0	30.2
18:55	1.32	4.0	43.4	21:40	4.07	21.8	36.4	0:22	6.78	4.0	33.3
18:57	1.36	7.5	42.2	21:42	4.11	18.4	38.3	0:25	6.82	4.0	34.6
19:00	1.40	7.8	41.3	21:45	4.15	16.6	35.3	0:27	6.86	4.0	35.3
19:02	1.44	4.0	40.5	21:47	4.19	13.9	37.0	0:30	6.90	4.0	35.3
19:05	1.48	4.0	37.0	21:50	4.23	15.3	37.6	0:32	6.94	4.0	36.9
19:07	1.53	4.0	42.2	21:52	4.28	16.6	33.3	0:35	6.98	4.0	38.1
19:10	1.57	20.1	42.5	21:55	4.32	12.4	33.3	0:37	7.03	4.0	33.9
19:12	1.61	25.9	44.5	21:57	4.36	15.0	36.9	0:40	7.07	15.8	39.2
19:15	1.65	13.4	47.6	22:00	4.40	13.7	36.1	0:42	7.11	14.5	38.7
19:17	1.69	13.9	40.3	22:02	4.44	10.6	33.7	0:45	7.15	13.4	38.4
19:20	1.73	11.0	38.7	22:05	4.48	10.8	37.9	0:47	7.19	19.7	35.3
19:22	1.78	4.0	37.0	22:07	4.53	13.4	35.3	0:50	7.23	29.0	39.6
19:25	1.82	4.0	36.4	22:10	4.57	13.4	35.3	0:52	7.28	19.4	38.4
19:27	1.86	9.8	43.9	22:12	4.61	13.4	35.3	0:55	7.32	15.3	37.6
19:30	1.90	10.1	40.4	22:15	4.65	11.0	35.3	0:57	7.36	7.8	38.4
19:32	1.94	10.5	39.3	22:17	4.69	15.3	33.9	1:00	7.40	7.9	39.2
19:35	1.98	10.5	42.5	22:20	4.73	16.6	37.4	1:02	7.44	4.0	36.0
19:37	2.03	9.6	40.0	22:22	4.78	18.1	32.2	1:05	7.48	4.0	35.3
19:40	2.07	9.6	40.0	22:25	4.82	17.9	31.7	1:07	7.53	4.0	36.1
19:42	2.11	4.0	38.3	22:27	4.86	12.2	36.7	1:10	7.57	7.1	35.3
19:45	2.15	4.0	38.4	22:30	4.90	14.2	34.5	1:12	7.61	4.0	37.0
19:47	2.19	4.0	35.3	22:32	4.94	13.9	37.0	1:15	7.65	4.0	36.0
19:50	2.23	4.0	35.3	22:35	4.98	11.0	31.8	1:17	7.69	4.0	34.5
19:52	2.28	4.0	39.3	22:37	5.03	8.0	36.0	1:20	7.73	4.0	33.2
19:55	2.32	4.0	40.0	22:40	5.07	7.9	35.3	1:22	7.78	4.0	38.3
19:57	2.36	4.0	38.4	22:42	5.11	7.6	32.5	1:25	7.82	6.8	37.3
20:00	2.40	4.0	41.4	22:45	5.15	11.0	35.3	1:27	7.86	4.0	37.9
20:02	2.44	4.0	39.3	22:47	5.19	11.0	35.3	1:30	7.90	4.0	40.0
20:05	2.48	4.0	41.2	22:50	5.23	11.7	34.6	1:32	7.94	4.0	38.7
20:07	2.53	10.3	38.4	22:52	5.28	11.2	36.1	1:35	7.98	7.1	37.4
20:10	2.57	13.2	40.4	22:55	5.32	13.9	33.7	1:37	8.03	6.8	40.0
20:12	2.61	4.0	38.4	22:57	5.36	13.9	37.0	1:40	8.07	10.8	37.9
20:15	2.65	4.0	37.9	23:00	5.40	24.9	35.3	1:42	8.11	8.0	40.0
20:17	2.69	4.0	40.3	23:02	5.44	33.3	37.4	1:45	8.15	4.0	36.9
20:20	2.73	4.0	41.2	23:05	5.48	23.2	34.6	1:47	8.19	7.0	36.4
20:22	2.78	4.0	38.7	23:07	5.53	16.6	35.3	1:50	8.23	9.8	38.3
20:25	2.82	4.0	39.3	23:10	5.57	12.6	35.5	1:52	8.28	7.5	38.7

Annex 1.12 continued. Sequential vertical positions of Fish 6

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
13-Jun-80			
1:55	8.32	11.3	40.5
1:57	8.36	13.4	38.4
2:00	8.40	11.0	42.2
2:02	8.44	10.3	38.4
2:05	8.48	9.9	39.3
2:07	8.53	32.2	35.3
2:10	8.57	38.4	38.4
2:12	8.61	36.7	36.7
2:15	8.65	37.4	37.4
2:17	8.69	39.2	39.2
2:20	8.73	38.4	38.4
2:25	8.82	40.5	40.5
2:30	8.90	39.3	39.3
2:35	8.98	25.1	38.9
2:40	9.07	25.3	34.4
2:45	9.15	21.3	35.5
2:47	9.19	18.8	36.4
2:50	9.23	20.6	33.7
2:55	9.32	26.6	36.1
3:00	9.40	35.3	38.7
3:05	9.48	28.3	36.2
3:07	9.53	24.7	33.5
3:10	9.57	23.9	33.7
3:12	9.61	21.9	36.1
3:15	9.65	24.7	36.4
3:17	9.69	24.3	35.5
3:20	9.73	25.1	34.4
3:22	9.78	24.7	33.5
3:25	9.82	30.4	33.7
3:27	9.86	34.6	34.6
3:35	9.98	40.5	40.5
3:37	10.03	37.0	37.0
3:40	10.07	35.3	35.3
3:42	10.11	37.0	37.0
3:45	10.15	42.2	42.2
3:47	10.19	37.9	37.9
3:50	10.23	39.1	39.1
3:55	10.32	34.5	34.5
4:00	10.40	39.3	39.3
4:15	10.65	40.0	40.0
4:30	10.90	34.5	34.5
4:45	11.15	40.3	40.3
5:00	11.40	37.0	37.0
5:15	11.65	40.4	40.4
5:30	11.90	41.4	41.4
5:45	12.15	40.3	40.3
6:00	12.40	40.5	40.5
6:15	12.65	44.8	44.8
6:30	12.90	37.3	37.3
6:45	13.15	35.3	35.3
7:00	13.40	34.4	34.4
7:15	13.65	35.5	35.5
7:30	13.90	40.5	40.5
7:45	14.15	36.4	36.4
8:00	14.40	35.3	35.3
8:15	14.65	37.0	37.0
8:30	14.90	38.7	38.7
8:45	15.15	38.7	38.7
9:00	15.40	38.7	38.7
9:15	15.65	43.1	43.1
9:30	15.90	40.5	40.5
9:45	16.15	37.5	37.5
10:00	16.40	38.4	38.4
10:15	16.65	36.9	36.9
10:30	16.90	36.2	36.2
10:45	17.15	36.9	36.9
11:00	17.40	37.4	37.4
11:15	17.65	37.0	37.0
11:45	18.15	36.4	36.4

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
13-Jun-80			
12:00	18.40	38.7	38.7
12:15	18.65	34.5	34.5
12:30	18.90	37.7	37.7
12:45	19.15	38.4	38.4
13:00	19.40	35.3	35.3
13:15	19.65	42.2	42.2
13:30	19.90	37.3	37.3
13:45	20.15	36.4	36.4
14:00	20.40	39.3	39.3
14:15	20.65	35.5	35.5
14:30	20.90	36.4	36.4
14:45	21.15	37.0	37.0
15:00	21.40	37.4	37.4
15:15	21.65	36.4	36.4
15:30	21.90	39.6	39.6
15:45	22.15	37.9	37.9
16:00	22.40	38.7	38.7
16:15	22.65	37.4	37.4
16:30	22.90	36.2	36.2
16:45	23.15	37.3	37.3
17:00	23.40	38.7	38.7
17:15	23.65	37.0	37.0
17:30	23.90	37.0	37.0
17:45	24.15	37.3	37.3
18:00	24.40	37.0	37.0
18:15	24.65	39.3	39.3
18:30	24.90	40.5	40.5
18:45	25.15	37.6	37.6
19:00	25.40	38.9	38.9
19:15	25.65	37.9	37.9
19:30	25.90	40.3	40.3
19:45	26.15	37.3	37.3
20:00	26.40	37.4	37.4
20:15	26.65	37.4	37.4
20:30	26.90	37.9	37.9
20:45	27.15	35.3	35.3
21:00	27.40	37.4	37.4
21:15	27.65	37.4	37.4
21:30	27.90	37.9	37.9
21:45	28.15	37.9	37.9
22:00	28.40	37.7	37.7
22:15	28.65	37.9	37.9
22:30	28.90	38.3	38.3
22:45	29.15	37.9	37.9
23:00	29.40	39.3	39.3
23:15	29.65	38.4	38.4
23:30	29.90	37.0	37.0
23:45	30.15	39.3	39.3
14-Jun-80			
0:00	30.40	39.3	39.3
0:15	30.65	43.9	43.9
0:30	30.90	38.7	38.7
0:45	31.15	40.4	40.4
1:00	31.40	38.4	38.4
1:15	31.65	40.3	40.3
1:30	31.90	35.3	35.3
1:45	32.15	38.4	38.4
2:00	32.40	38.7	38.7
2:15	32.65	37.7	37.7
2:30	32.90	39.3	39.3
2:45	33.15	39.3	39.3
3:00	33.40	40.0	40.0
3:15	33.65	37.3	37.3
3:30	33.90	40.3	40.3
3:45	34.15	40.0	40.0
4:00	34.40	36.6	36.6
4:15	34.65	41.1	41.1
4:30	34.90	39.1	39.1
4:45	35.15	39.3	39.3
5:00	35.40	38.9	38.9
5:15	35.65	37.9	37.9
5:30	35.90	23.5	23.5

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
14-Jun-80			
5:45	36.15	39.3	39.3
6:00	36.40	36.4	36.4
6:15	36.65	46.3	46.3
6:30	36.90	38.7	38.7
6:45	37.15	39.6	39.6
7:00	37.40	36.9	36.9
7:15	37.65	37.0	37.0
7:30	37.90	37.4	37.4
7:45	38.15	40.0	40.0
8:00	38.40	38.9	38.9
8:15	38.65	38.4	38.4
8:30	38.90	38.7	38.7
8:45	39.15	38.1	38.1
9:00	39.40	36.9	36.9
9:15	39.65	38.4	38.4
9:30	39.90	37.0	37.0
9:45	40.15	41.5	41.5
10:00	40.40	38.9	38.9
10:15	40.65	40.8	40.8
10:30	40.90	40.8	40.8
10:45	41.15	38.4	38.4
11:00	41.40	37.9	37.9
11:15	41.65	38.4	38.4
11:30	41.90	34.4	34.4
11:45	42.15	40.0	40.0
12:00	42.40	38.7	38.7
12:15	42.65	37.3	37.3
12:30	42.90	42.2	42.2
12:45	43.15	37.0	37.0
13:00	43.40	37.9	37.9
13:15	43.65	36.6	36.6
13:30	43.90	38.7	38.7
13:45	44.15	35.2	35.2
14:00	44.40	38.7	38.7
14:15	44.65	39.6	39.6
14:30	44.90	35.3	35.3
14:45	45.15	37.4	37.4
15:00	45.40	36.9	36.9
15:15	45.65	39.1	39.1
15:30	45.90	35.2	35.2
15:45	46.15	38.7	38.7
16:00	46.40	41.4	41.4
16:15	46.65	37.6	37.6
16:30	46.90	36.1	36.1
16:45	47.15	38.9	38.9
17:00	47.40	36.4	36.4
17:15	47.65	39.3	39.3
17:30	47.90	36.6	36.6
17:45	48.15	39.8	39.8
18:00	48.40	37.0	37.0
18:15	48.65	42.2	42.2
18:30	48.90	34.5	34.5
18:45	49.15	37.2	37.2
19:00	49.40	40.3	40.3
19:15	49.65	40.0	40.0
19:30	49.90	38.4	38.4
19:45	50.15	40.2	40.2
20:00	50.40	37.7	37.7
20:15	50.65	40.0	40.0
20:30	50.90	35.5	35.5
20:45	51.15	40.5	40.5
21:00	51.40	37.9	37.9
21:15	51.65	26.5	26.5
21:30	51.90	41.3	41.3
21:45	52.15	37.7	37.7
22:00	52.40	38.4	38.4
22:15	52.65	35.5	35.5

*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)	Date and time (GMT)	Elapsed time (h)	Latitude (*N)	Longitude (*E)
16-Jun-80				17-Jun-80				17-Jun-80			
12:15	0.00	53.798	2.637	5:45	17.50	53.833	2.656	22:15	34.00	53.839	2.664
12:30	0.25	53.797	2.641	6:00	17.75	53.835	2.655	22:30	34.25	53.840	2.654
12:45	0.50	53.798	2.639	6:15	18.00	53.838	2.653	22:45	34.50	53.839	2.665
13:00	0.75	53.799	2.642	6:30	18.25	53.840	2.652	23:00	34.75	53.836	2.687
13:15	1.00	53.800	2.645	6:45	18.50	53.841	2.650	23:15	35.00	53.840	2.660
13:30	1.25	53.800	2.648	7:00	18.75	53.841	2.651	23:30	35.25	53.840	2.662
13:45	1.50	53.801	2.650	7:15	19.00	53.841	2.651	23:45	35.50	53.837	2.681
14:00	1.75	53.801	2.651	7:30	19.25	53.841	2.650	18-Jun-80			
14:15	2.00	53.802	2.652	7:45	19.50	53.841	2.652	0:00	35.75	53.840	2.654
14:30	2.25	53.802	2.654	8:00	19.75	53.841	2.652	0:15	36.00	53.840	2.654
14:45	2.50	53.802	2.655	8:15	20.00	53.841	2.651	0:30	36.25	53.841	2.652
15:00	2.75	53.804	2.657	8:30	20.25	53.841	2.651	0:45	36.50	53.842	2.649
15:15	3.00	53.806	2.660	8:45	20.50	53.841	2.652	1:00	36.75	53.839	2.670
15:30	3.25	53.808	2.660	9:00	20.75	53.841	2.650	1:15	37.00	53.840	2.661
15:45	3.50	53.810	2.663	9:15	21.00	53.841	2.650	1:30	37.25	53.841	2.648
16:00	3.75	53.813	2.663	9:30	21.25	53.841	2.650	1:45	37.50	53.844	2.639
16:15	4.00	53.815	2.664	9:45	21.50	53.841	2.650	2:00	37.75	53.847	2.622
16:30	4.25	53.817	2.664	10:00	21.75	53.841	2.650	2:15	38.00	53.845	2.647
16:45	4.50	53.819	2.662	10:15	22.00	53.841	2.651	2:30	38.25	53.843	2.647
17:00	4.75	53.821	2.662	10:30	22.25	53.841	2.652	2:45	38.50	53.843	2.647
17:15	5.00	53.822	2.662	10:45	22.50	53.840	2.652	3:00	38.75	53.844	2.647
18:00	5.75	53.823	2.657	11:00	22.75	53.840	2.651	3:15	39.00	53.843	2.652
18:15	6.00	53.823	2.658	11:15	23.00	53.841	2.650	3:30	39.25	53.845	2.642
18:30	6.25	53.823	2.658	11:30	23.25	53.841	2.650	3:45	39.50	53.844	2.645
18:45	6.50	53.824	2.659	11:45	23.50	53.841	2.651	4:00	39.75	53.844	2.650
19:00	6.75	53.824	2.658	12:00	23.75	53.841	2.650	4:15	40.00	53.844	2.647
19:15	7.00	53.824	2.656	12:15	24.00	53.841	2.650	4:30	40.25	53.844	2.645
19:30	7.25	53.825	2.655	12:30	24.25	53.841	2.650	4:45	40.50	53.844	2.644
19:45	7.50	53.825	2.658	12:45	24.50	53.841	2.650	5:00	40.75	53.844	2.644
20:00	7.75	53.825	2.648	13:00	24.75	53.841	2.651	5:15	41.00	53.844	2.644
20:15	8.00	53.823	2.665	13:15	25.00	53.841	2.650	5:30	41.25	53.844	2.643
20:30	8.25	53.824	2.662	13:30	25.25	53.841	2.650	5:45	41.50	53.844	2.642
20:45	8.50	53.824	2.655	13:45	25.50	53.841	2.651	6:00	41.75	53.844	2.644
21:00	8.75	53.823	2.655	14:00	25.75	53.841	2.652	6:15	42.00	53.844	2.643
21:15	9.00	53.821	2.653	14:15	26.00	53.841	2.651	6:30	42.25	53.844	2.644
21:30	9.25	53.822	2.651	14:30	26.25	53.841	2.650	6:45	42.50	53.844	2.645
21:45	9.50	53.821	2.652	14:45	26.50	53.841	2.650	7:00	42.75	53.844	2.645
22:00	9.75	53.818	2.666	15:00	26.75	53.841	2.650	7:15	43.00	53.844	2.645
22:15	10.00	53.818	2.678	15:15	27.00	53.841	2.651	7:30	43.25	53.844	2.644
22:30	10.25	53.815	2.683	15:30	27.25	53.841	2.651	7:45	43.50	53.844	2.646
22:45	10.50	53.817	2.683	15:45	27.50	53.841	2.651	8:00	43.75	53.844	2.645
23:00	10.75	53.817	2.687	16:00	27.75	53.841	2.651	8:15	44.00	53.844	2.644
23:15	11.00	53.819	2.676	16:15	28.00	53.841	2.651	8:30	44.25	53.845	2.644
23:30	11.25	53.818	2.677	16:30	28.25	53.841	2.651	8:45	44.50	53.845	2.643
17-Jun-80				16:45	28.50	53.841	2.650	9:00	44.75	53.845	2.644
0:15	12.00	53.816	2.680	17:00	28.75	53.841	2.649	9:15	45.00	53.844	2.644
0:30	12.25	53.816	2.670	17:15	29.00	53.841	2.649	9:30	45.25	53.844	2.644
0:45	12.50	53.819	2.665	17:30	29.25	53.841	2.650	9:45	45.50	53.845	2.644
1:00	12.75	53.827	2.617	17:45	29.50	53.841	2.650	10:00	45.75	53.845	2.644
1:15	13.00	53.822	2.637	18:00	29.75	53.841	2.651	10:15	46.00	53.844	2.644
1:45	13.50	53.820	2.641	18:15	30.00	53.841	2.651	10:30	46.25	53.845	2.644
2:00	13.75	53.818	2.664	18:30	30.25	53.841	2.651	10:45	46.50	53.845	2.643
2:15	14.00	53.817	2.673	18:45	30.50	53.841	2.651	11:00	46.75	53.845	2.644
2:30	14.25	53.817	2.678	19:00	30.75	53.841	2.650	11:15	47.00	53.845	2.643
2:45	14.50	53.818	2.672	19:15	31.00	53.841	2.654	11:30	47.25	53.845	2.644
3:00	14.75	53.819	2.665	19:30	31.25	53.841	2.648	11:45	47.50	53.845	2.644
3:15	15.00	53.821	2.663	19:45	31.50	53.840	2.658	12:00	47.75	53.845	2.644
3:30	15.25	53.821	2.676	20:00	31.75	53.840	2.653	12:15	48.00	53.845	2.645
3:45	15.50	53.824	2.662	20:15	32.00	53.842	2.646	12:30	48.25	53.845	2.645
4:00	15.75	53.826	2.660	20:30	32.25	53.842	2.645	12:45	48.50	53.845	2.645
4:15	16.00	53.826	2.664	20:45	32.50	53.842	2.648	13:00	48.75	53.845	2.644
4:30	16.25	53.827	2.664	21:00	32.75	53.839	2.662	13:15	49.00	53.845	2.645
4:45	16.50	53.828	2.663	21:15	33.00	53.840	2.660	13:30	49.25	53.845	2.646
5:00	16.75	53.828	2.665	21:30	33.25	53.839	2.661	14:00	49.75	53.844	2.643
5:15	17.00	53.829	2.664	21:45	33.50	53.837	2.681	14:15	50.00	53.846	2.642
5:30	17.25	53.831	2.659	22:00	33.75	53.837	2.680	14:30	50.25	53.845	2.645

Annex 1.13 continued. Sequential geographical positions of Fish 7

Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)	Date and time (GMT)	Elapsed time (h)	Latitude (°N)	Longitude (°E)
18-Jun-80				19-Jun-80			
14:45	50.25	53.845	2.645	8:00	67.75	53.845	2.604
15:00	50.50	53.845	2.644				
15:15	50.75	53.845	2.645				
15:30	51.00	53.845	2.645				
15:45	51.25	53.844	2.645				
16:00	51.50	53.844	2.646				
16:15	51.75	53.844	2.646				
16:30	52.00	53.845	2.646				
16:45	52.25	53.845	2.645				
17:00	52.50	53.844	2.646				
17:15	52.75	53.844	2.646				
17:30	53.00	53.844	2.645				
17:45	53.25	53.844	2.643				
18:00	53.50	53.844	2.644				
18:15	53.75	53.844	2.646				
18:30	54.00	53.845	2.646				
18:45	54.25	53.845	2.646				
19:00	54.50	53.844	2.646				
19:15	54.75	53.844	2.646				
19:30	55.00	53.844	2.645				
19:45	55.25	53.845	2.647				
20:00	55.50	53.845	2.638				
20:15	55.75	53.844	2.652				
20:30	56.00	53.844	2.656				
20:45	56.25	53.844	2.653				
21:00	56.50	53.845	2.653				
21:15	56.75	53.846	2.637				
21:30	57.00	53.846	2.628				
21:45	57.25	53.848	2.630				
22:00	57.50	53.847	2.631				
22:15	57.75	53.844	2.639				
22:30	58.00	53.843	2.648				
22:45	58.25	53.847	2.641				
23:00	58.50	53.844	2.650				
23:15	58.75	53.849	2.616				
23:30	59.00	53.872	2.546				
23:45	59.25	53.848	2.609				
19-Jun-80							
0:00	59.75	53.838	2.669				
0:15	60.00	53.845	2.656				
0:30	60.25	53.839	2.675				
0:45	60.50	53.842	2.653				
1:15	61.00	53.840	2.649				
1:30	61.25	53.840	2.643				
1:45	61.50	53.839	2.641				
2:00	61.75	53.839	2.637				
2:15	62.00	53.839	2.635				
2:30	62.25	53.839	2.635				
2:45	62.50	53.840	2.626				
3:00	62.75	53.840	2.627				
3:15	63.00	53.840	2.625				
3:30	63.25	53.839	2.636				
3:45	63.50	53.841	2.618				
4:00	63.75	53.842	2.619				
4:15	64.00	53.843	2.620				
5:15	65.00	53.845	2.605				
5:30	65.25	53.845	2.603				
5:45	65.50	53.845	2.605				
6:00	65.75	53.845	2.604				
6:15	66.00	53.845	2.603				
6:30	66.25	53.845	2.603				
6:45	66.50	53.845	2.603				
7:00	66.75	53.845	2.605				
7:15	67.00	53.845	2.603				
7:30	67.25	53.845	2.604				
7:45	67.50	53.845	2.605				

**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)
16-Jun-80				16-Jun-80				17-Jun-80			
12:09	0.00	34.0	34.0	21:57	9.81	55.5	59.9	2:05	13.93	62.7	62.7
12:15	0.10	33.0	33.0	22:00	9.85	62.2	62.2	2:10	14.02	61.0	61.0
12:30	0.35	36.1	36.1	22:02	9.89	57.8	60.2	2:15	14.10	62.6	62.6
12:45	0.60	36.1	36.1	22:05	9.93	56.4	58.7	2:30	14.35	60.7	60.7
13:00	0.85	34.4	34.4	22:06	<i>9.95</i>	<i>58.7</i>	<i>58.7</i>	2:45	14.60	60.7	60.7
13:15	1.10	36.1	36.1	22:07	9.98	56.4	60.9	3:00	14.85	60.9	60.9
13:30	1.35	36.4	36.4	22:10	10.02	59.6	62.6	3:15	15.10	61.1	61.1
13:45	1.60	34.5	34.5	22:12	<i>10.06</i>	<i>59.6</i>	<i>59.6</i>	3:30	15.35	56.5	56.5
14:00	1.85	36.0	36.0	22:15	<i>10.10</i>	<i>62.7</i>	<i>62.7</i>	3:45	15.60	60.7	60.7
14:15	2.10	36.1	36.1	22:16	10.12	62.7	62.7	4:00	15.85	59.6	59.6
14:30	2.35	36.1	36.1	22:17	<i>10.14</i>	<i>59.7</i>	<i>59.7</i>	4:15	16.10	62.5	62.5
14:45	2.60	36.1	36.1	22:20	10.18	55.3	57.8	4:30	16.35	64.9	64.9
15:00	2.85	38.7	38.7	22:21	10.20	57.8	57.8	4:45	16.60	70.2	70.2
15:15	3.10	33.5	33.5	22:22	10.23	61.2	61.2	5:00	16.85	69.0	69.0
15:30	3.35	42.2	42.2	22:25	10.27	63.5	63.5	5:15	17.10	58.3	69.8
15:45	3.60	44.1	44.1	22:27	10.31	69.0	69.0	5:17	17.14	53.4	66.5
16:00	3.85	57.2	57.2	22:30	10.35	67.4	67.4	5:20	17.18	53.2	65.9
16:15	4.10	59.0	59.0	22:35	10.43	67.0	67.0	5:22	17.23	55.3	69.8
16:30	4.35	65.8	65.8	22:40	10.52	63.0	63.0	5:25	17.27	52.4	69.5
16:45	4.60	60.9	60.9	22:45	10.60	70.2	70.2	5:27	17.31	48.5	69.0
17:00	4.85	62.6	62.6	22:50	10.68	64.6	64.6	5:30	17.35	45.4	67.4
17:15	5.10	58.5	58.5	22:55	10.77	65.0	65.0	5:32	17.39	49.3	69.6
17:54	5.75	65.4	65.4	23:00	10.85	61.5	61.5	5:35	17.43	45.4	72.1
18:00	5.85	61.9	61.9	23:10	11.02	65.0	65.0	5:37	17.48	40.0	71.6
18:15	6.10	63.9	63.9	23:15	11.10	63.2	63.2	5:40	17.52	34.4	75.2
18:30	6.35	65.8	65.8	23:30	11.35	61.4	61.4	5:42	17.56	31.8	74.1
18:45	6.60	64.6	64.6	17-Jun-80				5:45	17.60	31.7	76.5
19:00	6.85	65.8	65.8	0:05	<i>11.93</i>	<i>54.7</i>	<i>54.7</i>	5:47	17.64	28.8	72.9
19:15	7.10	64.6	64.6	0:12	<i>12.06</i>	<i>58.0</i>	<i>58.0</i>	5:50	17.68	29.2	69.8
19:30	7.35	62.5	62.5	0:15	12.10	56.0	60.7	5:52	17.73	32.2	71.4
19:45	7.60	65.9	65.9	0:17	12.14	58.7	61.3	5:55	17.77	32.2	77.2
20:00	7.85	64.2	64.2	0:20	12.18	56.5	59.4	5:57	17.81	35.5	76.3
20:15	8.10	63.9	63.9	0:22	12.23	57.7	60.4	6:00	17.85	35.5	74.8
20:30	8.35	64.3	64.3	0:25	12.27	55.2	61.0	6:02	17.89	28.8	76.7
20:40	8.52	57.8	65.0	0:27	12.31	58.7	61.3	6:05	17.93	27.9	77.5
20:42	8.56	54.8	61.0	0:30	12.35	57.0	62.1	6:07	17.98	27.5	72.1
20:45	8.60	53.6	63.9	0:32	12.39	53.6	59.6	6:10	18.02	23.3	73.3
20:47	8.64	53.2	62.7	0:35	12.43	59.4	62.1	6:12	18.06	26.5	70.4
20:50	8.68	49.6	63.2	0:37	12.48	55.3	60.2	6:15	18.10	28.4	72.4
20:52	8.73	48.1	61.3	0:40	12.52	55.2	61.0	6:17	18.14	27.5	65.0
20:55	8.77	50.1	60.5	0:42	12.56	57.8	61.0	6:20	18.18	24.7	59.4
20:57	8.81	55.0	60.4	0:45	<i>12.60</i>	<i>61.0</i>	<i>61.0</i>	6:22	18.23	29.0	53.6
21:00	8.85	53.2	62.7	0:47	<i>12.64</i>	<i>63.0</i>	<i>63.0</i>	6:25	18.27	23.3	51.9
21:02	8.89	45.4	61.3	0:50	<i>12.68</i>	<i>58.7</i>	<i>58.7</i>	6:27	18.31	20.6	46.7
21:05	8.93	52.8	60.3	0:52	12.73	60.5	60.5	6:30	18.35	23.9	43.5
21:07	8.98	51.9	61.2	0:55	12.77	60.5	60.5	6:32	18.39	37.0	40.3
21:10	9.02	51.9	58.7	0:57	<i>12.81</i>	<i>61.0</i>	<i>63.9</i>	6:33	18.40	40.3	40.3
21:12	9.06	50.8	63.2	1:00	12.85	61.0	61.0	6:35	18.43	46.0	46.0
21:15	9.10	47.6	62.6	1:02	12.89	63.9	63.9	6:40	18.52	46.3	46.3
21:17	9.14	46.7	62.7	1:05	12.93	62.6	62.6	6:45	18.60	43.5	43.5
21:20	9.18	46.7	60.4	1:07	12.98	62.1	62.1	6:50	18.68	45.6	45.6
21:22	9.23	43.1	60.5	1:10	13.02	62.7	62.7	7:00	18.85	44.5	44.5
21:25	9.27	46.3	61.0	1:12	13.06	60.9	60.9	7:15	19.10	45.4	45.4
21:27	9.31	44.5	62.6	1:15	13.10	62.6	62.6	7:30	19.35	44.5	44.5
21:30	9.35	46.7	59.6	1:20	13.18	59.1	59.1	7:45	19.60	44.0	44.0
21:32	9.39	54.4	59.8	1:25	13.27	64.9	64.9	8:00	19.85	46.7	46.7
21:35	9.43	54.2	63.2	1:30	13.35	54.8	54.8	8:15	20.10	47.9	47.9
21:37	9.48	50.9	62.1	1:32	13.39	58.7	61.3	8:30	20.35	42.8	42.8
21:40	9.52	47.7	61.9	1:35	13.43	63.2	63.2	8:45	20.60	44.1	44.1
21:42	9.56	45.1	62.1	1:37	13.48	56.1	58.7	9:00	20.85	45.1	45.1
21:45	9.60	43.5	61.1	1:42	13.55	61.9	61.9	9:15	21.10	45.4	45.4
21:47	9.64	41.5	59.6	1:45	13.60	61.3	61.3	9:30	21.35	44.1	44.1
21:50	9.68	48.0	62.1	1:50	13.68	56.6	56.6	9:45	21.60	44.9	44.9
21:52	9.73	55.8	59.1	1:55	13.77	58.0	58.0	10:00	21.85	44.2	44.2
21:55	9.77	54.8	61.0	2:00	13.85	57.3	57.3	10:15	22.10	43.9	43.9

Annex 1.14 continued. Sequential vertical positions of Fish 7

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
17-Jun-80			
10:30	22.35	44.1	44.1
10:45	22.60	46.7	46.7
11:00	22.85	44.9	44.9
11:15	23.10	44.5	44.5
11:30	23.35	43.9	43.9
11:45	23.60	44.1	44.1
12:00	23.85	43.1	43.1
12:15	24.10	43.5	43.5
12:30	24.35	44.5	44.5
12:45	24.60	43.9	43.9
13:00	24.85	44.1	44.1
13:15	25.10	45.4	45.4
13:30	25.35	46.7	46.7
13:45	25.60	43.4	43.4
14:00	25.85	45.1	45.1
14:15	26.10	42.7	42.7
14:30	26.35	42.7	42.7
14:45	26.60	43.5	43.5
15:00	26.85	43.4	43.4
15:15	27.10	45.1	45.1
15:30	27.35	42.7	42.7
15:45	27.60	43.5	43.5
16:00	27.85	42.5	42.5
16:15	28.10	42.2	42.2
16:30	28.35	43.1	43.1
16:45	28.60	42.5	42.5
17:00	28.85	41.4	41.4
17:15	29.10	41.4	41.4
17:30	29.35	43.5	43.5
17:45	29.60	44.5	44.5
18:00	29.85	42.2	42.2
18:15	30.10	40.3	40.3
18:30	30.35	45.6	45.6
18:45	30.60	40.4	40.4
19:00	30.85	42.8	42.8
19:15	31.10	43.4	43.4
19:30	31.35	44.5	44.5
19:45	31.60	42.7	42.7
20:00	31.85	42.7	42.7
20:15	32.10	42.2	42.2
20:24	32.25	43.5	43.5
20:30	32.35	45.4	45.4
20:35	32.43	44.5	44.5
20:40	32.52	42.7	42.7
20:45	32.60	44.5	44.5
20:50	32.68	46.7	46.7
20:55	32.77	42.5	42.5
21:00	32.85	46.7	46.7
21:05	32.93	43.5	43.5
21:10	33.02	43.5	43.5
21:15	33.10	44.5	44.5
21:20	33.18	45.4	45.4
21:25	33.27	44.1	44.1
21:30	33.35	42.7	42.7
21:35	33.43	45.1	45.1
21:45	33.60	42.8	42.8
21:50	33.68	43.5	43.5
21:55	33.77	46.3	46.3
22:00	33.85	43.9	43.9
22:05	33.93	46.7	46.7
22:10	34.02	47.3	47.3
22:15	34.10	39.3	39.3
22:20	34.18	43.5	43.5
22:25	34.27	43.5	43.5
22:30	34.35	43.5	43.5
22:35	34.43	44.5	44.5
22:40	34.52	44.1	44.1
22:45	34.60	44.5	44.5

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
17-Jun-80			
22:50	34.68	43.4	43.4
22:55	34.77	42.5	42.5
23:00	34.85	42.8	42.8
23:05	34.93	46.7	46.7
23:10	35.02	45.4	45.4
23:15	35.10	43.5	43.5
23:20	35.18	46.0	46.0
23:25	35.27	44.2	44.2
23:30	35.35	45.4	45.4
23:35	35.43	42.2	42.2
23:40	35.52	48.0	48.0
23:45	35.60	43.9	43.9
23:50	35.68	50.6	50.6
23:55	35.77	42.0	42.0
18-Jun-80			
0:00	35.85	43.5	43.5
0:05	35.93	43.5	43.5
0:10	36.02	42.7	42.7
0:15	36.10	42.6	42.6
0:20	36.18	44.1	44.1
0:25	36.27	41.5	41.5
0:30	36.35	42.0	42.0
0:35	36.43	43.9	43.9
0:40	36.52	42.6	42.6
0:45	36.60	44.2	44.2
0:50	36.68	42.7	42.7
0:55	36.77	30.7	42.6
1:00	36.85	25.8	42.0
1:02	36.89	31.0	39.1
1:05	36.93	33.2	39.8
1:07	36.98	37.9	42.6
1:10	37.02	42.7	42.7
1:12	37.06	44.5	44.5
1:15	37.10	43.5	43.5
1:17	37.14	50.4	50.4
1:20	37.18	46.3	46.3
1:22	37.23	36.4	38.5
1:25	37.27	35.2	42.8
1:27	37.31	33.7	43.5
1:30	37.35	29.8	42.5
1:32	37.39	31.0	39.8
1:35	37.43	31.0	39.1
1:37	37.48	32.1	41.2
1:40	37.52	33.6	38.9
1:42	37.56	34.5	41.2
1:45	37.60	31.8	42.2
1:47	37.64	30.7	37.9
1:50	37.68	31.8	38.0
1:52	37.73	31.4	39.1
1:55	37.77	32.5	39.8
1:57	37.81	37.7	37.7
2:00	37.85	38.2	38.2
2:02	37.89	37.6	37.6
2:12	38.06	38.0	38.0
2:15	38.10	37.3	37.3
2:17	38.14	41.1	41.1
2:20	38.18	37.9	37.9
2:22	38.23	39.8	39.8
2:25	38.27	38.0	38.0
2:30	38.35	37.1	37.1
2:35	38.43	36.2	36.2
2:40	38.52	40.4	40.4
2:45	38.60	39.1	39.1
3:00	38.85	40.0	40.0
3:15	39.10	39.3	39.3
3:30	39.35	38.4	38.4
3:45	39.60	39.1	39.1
4:00	39.85	37.4	37.4

Date and time (GMT)	Elapsed time (h)	Depth of fish from surface (m)	Depth of bottom from surface (m)
18-Jun-80			
4:15	40.10	37.7	37.7
4:30	40.35	38.9	38.9
4:45	40.60	37.4	37.4
5:00	40.85	37.9	37.9
5:15	41.10	36.2	36.2
5:30	41.35	41.5	41.5
5:45	41.60	37.3	37.3
6:00	41.85	38.3	38.3
6:15	42.10	38.9	38.9
6:30	42.35	42.5	42.5
6:45	42.60	38.7	38.7
7:00	42.85	38.9	38.9
7:15	43.10	38.4	38.4
7:30	43.35	42.2	42.2
7:45	43.60	40.3	40.3
8:00	43.85	39.1	39.1
8:15	44.10	39.8	39.8
8:30	44.35	40.0	40.0
8:45	44.60	39.3	39.3
9:00	44.85	41.4	41.4
9:15	45.10	38.4	38.4
9:30	45.35	38.7	38.7
9:45	45.60	38.4	38.4
10:00	45.85	39.3	39.3
10:15	46.10	38.4	38.4
10:30	46.35	37.3	37.3
10:45	46.60	37.0	37.0
11:00	46.85	36.1	36.1
11:15	47.10	37.0	37.0
11:30	47.35	36.9	36.9
11:45	47.60	41.2	41.2
12:00	47.85	37.3	37.3
12:15	48.10	36.4	36.4
12:30	48.35	37.7	37.7
12:45	48.60	38.4	38.4
13:00	48.85	41.2	41.2
13:15	49.10	38.7	38.7
13:30	49.35	37.9	37.9
14:00	49.85	34.4	34.4
14:15	50.10	38.9	38.9
14:30	50.35	35.5	35.5
14:45	50.60	38.3	38.3
15:00	50.85	36.4	36.4
15:15	51.10	35.2	35.2
15:30	51.35	38.3	38.3
15:45	51.60	37.0	37.0
16:00	51.85	38.7	38.7
16:15	52.10	38.4	38.4
16:30	52.35	38.4	38.4
16:45	52.60	38.9	38.9
17:00	52.85	42.2	42.2
17:15	53.10	37.4	37.4
17:30	53.35	39.2	39.2
17:45	53.60	36.4	36.4
18:00	53.85	40.0	40.0
18:15	54.10	37.0	37.0
18:30	54.35	37.9	37.9
18:45	54.60	38.7	38.7
19:00	54.85	38.7	38.7
19:15	55.10	38.7	38.7
19:30	55.35	37.0	37.0
19:45	55.60	39.3	39.3
20:00	55.85	36.7	36.7
20:15	56.10	39.3	39.3
20:30	56.35	40.3	40.3
20:45	56.60	41.4	41.4
21:00	56.85	41.1	41.1
21:15	57.10	41.5	41.5

Annex 1.14 continued. Sequential vertical positions of Fish 7

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-Jun-80				19-Jun-80				19-Jun-80			
21:30	57.35	40.3	40.3	2:02	61.89	41.1	76.3	4:55	64.77	68.5	71.4
21:45	57.60	37.3	37.3	2:05	61.93	37.9	76.1	5:05	64.93	63.0	72.1
22:00	57.85	35.2	35.2	2:07	61.98	29.8	73.7	5:07	64.98	59.6	69.0
22:15	58.10	38.3	38.3	2:10	62.02	33.7	72.1	5:08	64.98	72.0	72.0
22:30	58.35	47.9	47.9	2:12	62.06	36.4	75.9	5:10	65.02	75.6	75.6
22:45	58.60	40.0	40.0	2:15	62.10	44.1	76.8	5:12	65.06	72.1	72.1
23:00	58.85	38.9	38.9	2:17	62.14	43.5	75.2	5:15	65.10	74.8	74.8
23:15	59.10	40.3	40.3	2:20	62.18	51.2	73.9	5:17	65.14	72.4	72.4
23:21	59.20	29.8	38.3	2:22	62.23	59.6	74.4	5:20	65.18	74.0	74.0
23:25	59.27	29.8	39.3	2:25	62.27	64.6	76.8	5:22	65.23	76.1	76.1
23:27	59.31	31.7	39.1	2:27	62.31	48.0	73.2	5:25	65.27	73.9	73.9
23:30	59.35	34.4	43.4	2:30	62.35	57.8	77.1	5:27	65.31	74.2	74.2
23:32	59.39	33.7	37.0	2:32	62.39	50.0	75.2	5:30	65.35	72.1	72.1
23:35	59.43	30.9	38.9	2:35	62.43	47.6	77.2	5:35	65.43	74.3	74.3
23:37	59.48	28.3	40.2	2:37	62.48	47.7	75.8	5:40	65.52	74.3	74.3
23:40	59.52	27.5	37.7	2:40	62.52	52.4	75.7	5:45	65.60	73.5	73.5
23:42	59.56	29.1	35.3	2:42	62.56	49.3	76.8	5:50	65.68	72.1	72.1
23:45	59.60	32.5	36.1	2:45	62.60	50.9	73.2	5:55	65.77	74.1	74.1
23:47	59.64	31.8	40.0	2:47	62.64	56.0	77.5	6:00	65.85	74.0	74.0
23:50	59.68	35.2	37.7	2:52	62.73	50.6	72.9	6:15	66.10	72.4	72.4
23:52	59.73	38.7	38.7	2:55	62.77	56.6	71.4	6:30	66.35	76.3	76.3
23:55	59.77	36.4	39.3	2:57	62.81	61.0	73.9	6:45	66.60	71.6	71.6
23:57	59.81	36.7	41.2	3:00	62.85	54.8	72.9	7:00	66.85	72.4	72.4
19-Jun-80				3:02	62.89	52.2	73.7	7:15	67.10	74.1	74.1
0:00	59.85	32.6	40.3	3:05	62.93	47.9	71.3	7:30	67.35	72.4	72.4
0:02	59.89	35.3	38.7	3:07	62.98	60.2	77.1	7:45	67.60	75.2	75.2
0:05	59.93	33.9	41.3	3:10	63.02	63.9	74.1	8:00	67.85	76.8	76.8
0:07	59.98	34.2	44.0	3:12	63.06	68.7	74.7				
0:10	60.02	38.9	44.1	3:15	63.10	67.6	76.5				
0:12	60.06	41.1	43.9	3:16	63.12	76.5	76.5				
0:15	60.10	41.4	44.5	3:17	63.14	82.7	82.7				
0:17	60.14	37.7	45.4	3:20	63.18	72.1	76.5				
0:20	60.18	38.0	41.6	3:22	63.23	68.5	73.7				
0:22	60.23	37.6	45.2	3:25	63.27	64.3	73.9				
0:25	60.27	39.1	41.5	3:27	63.31	67.6	78.2				
0:27	60.31	35.3	44.5	3:30	63.35	63.2	75.5				
0:30	60.35	37.0	43.5	3:32	63.39	57.8	70.7				
0:32	60.39	34.4	40.4	3:35	63.43	61.9	75.8				
0:35	60.43	35.5	42.0	3:37	63.48	64.9	75.9				
0:37	60.48	33.2	41.5	3:40	63.52	65.6	74.3				
0:40	60.52	36.4	42.6	3:42	63.56	64.8	72.7				
0:42	60.56	35.5	42.6	3:45	63.60	68.8	76.6				
0:45	60.60	34.4	40.4	3:47	63.64	67.5	77.1				
0:47	60.64	38.4	38.4	3:50	63.68	77.1	77.1				
0:50	60.68	35.5	39.8	3:50	63.69	72.4	75.7				
0:52	60.73	33.2	39.8	3:52	63.73	78.9	78.9				
0:55	60.77	33.2	42.0	3:54	63.76	68.9	75.8				
1:08	60.98	34.3	39.8	3:57	63.81	64.9	75.9				
1:10	61.02	33.8	39.5	4:00	63.85	63.9	72.4				
1:12	61.06	30.9	38.9	4:02	63.89	65.9	75.2				
1:15	61.10	37.6	41.4	4:05	63.93	65.8	76.3				
1:18	61.16	41.4	41.4	4:07	63.98	62.1	74.4				
1:22	61.23	48.0	53.7	4:10	64.02	64.2	76.3				
1:25	61.27	52.2	61.0	4:12	64.06	66.0	77.3				
1:27	61.31	53.9	66.1	4:15	64.10	65.9	75.2				
1:30	61.35	52.2	69.6	4:17	64.14	77.5	77.5				
1:32	61.39	59.6	69.0	4:20	64.18	77.3	77.3				
1:35	61.43	58.7	71.6	4:22	64.23	64.9	73.2				
1:37	61.48	59.6	74.4	4:25	64.27	69.8	76.7				
1:40	61.52	59.6	75.2	4:25	64.28	76.7	76.7				
1:42	61.56	55.0	73.3	4:27	64.31	69.5	73.5				
1:45	61.60	54.2	76.1	4:32	64.39	56.4	75.2				
1:47	61.64	53.6	76.5	4:35	64.43	61.0	72.4				
1:50	61.68	52.4	75.7	4:40	64.52	69.0	72.1				
1:52	61.73	46.6	74.1	4:42	64.56	66.9	74.0				
1:55	61.77	45.4	79.1	4:45	64.60	63.9	76.6				
1:57	61.81	44.0	76.5	4:47	64.64	62.5	75.7				
2:00	61.85	38.4	74.3	4:50	64.68	68.5	73.7				

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Open sea fish tracks: plaice fitted with compass tags