Final Report

(Data Book)

Stock Assessment of Demersal Fish Species in the Republic of Ghana



February, 2003

Japan International Cooperation Agency
Japan NUS Co., Ltd.
Sanyo Techno-marine Co., Ltd.

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03-02

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1. Data of Sea Survey

1-1. Project team members and subject allocations

The makeup of the survey teams and the tasks of the individual team members are shown in Table 1-1-1.

1-2. Specifications of survey vessel

The specifications of chartered research vessel are shown in Table 1-1-2.

1.3. Specifications of survey equipment

The configuration of trawl net is shown in Figure 1-3-1. The experimental cod end for mesh size selectivity tests are shown in Figure 1-3-2.

Two marine scales (6 kg max. with 2g resolution and 60 kg max. with 20g resolution: M series 1100 type U2) manufactured by Marel have been used for body weight measurements.

The oceanographic observations equipment is the CLOROTECH DCL1180-PDK (equipped with a 180-meter-long plumb cable).

A stereomicroscope, Nikon SMZ800, was used for the analysis of otolith and stomach contents.

1-4. Survey schedule

The survey schedule is shown in Table 1-4-1.

1-5. Data of fishing operation and oceanographic observaion

The date, time, coordinates etc. at each survey station is shown in Table 1-5-1.

1-6. Oceanographic observation data

Oceanographic observation results at each survey station are shown in Table 1-6-1. Information on the calibration of salinity is shown in Table 1-6-2.

1-7. Catch data

Catch data at each station is shown in Table 1-7-1. Density distribution (kg/km²) of evaluation target species and survey target species are shown in Fig. 1-7-1 and 1-7-2, respectively.

1-8. Measurement and analysis data of target species

Results of length and body weight measurement of evaluation target species are shown in Table 1-8-1. Results of stomach contents analysis of evaluation target species are shown in Table 1-8-2. Results of length and body weight measurement of survey target species are shown in Table 1-8-3.

1-9. Mesh size selectivity tests data

Results of length measurement of evaluation target species caught in inner net and outer net at the mesh size selectivity tests are shown in Table 1-9-1.

2. Data of Land Survey

2-1. Project team members and subject allocations

The makeup of the survey teams and the tasks of the individual team members are shown in Table 2-1.

2-2. Sites of market research

The sites of market research are shown in Table 2-2.

2-3. Survey schedule

The survey schedule is shown in Table 2-3.

2.4. Interview results

Results of the interview with fishermen and industrial fishing companies are shown in Table 2-4-1 and 2-4-2, respectively.

2-5. Fish price data

Prices of the fish caught by industrial fisheries and artisanal fisheries are shown in Table 2-5-1 and 2-5-2, respectively. Fish prices at the markets are shown in Table 2-5-3.

2-6. Results of the length measurement

Results of the length measurement of evaluation target species and survey target species at markets are shown in Table 2-6-1 and 2-6-2, respectively. For the length measurement, landed fish were placed in the metal frame or on the rectangular plate to take photos with a digital camera (TOSHIBE PDR-M70). Length were measured by 4 points method using personal computer (COMPAQ prosignia 300 series).

2.7. Catch statistics

Catch data collection forms of artisanal, semi-industrial and industrial fisheries are shown in Table 2-7-1. Annual catch quantity by species and fishery are shown in Table 2-7-2. Monthly catch quantity by species and fishery in year 1999 are shown in Table 2-7-3. Monthly gross landing by species of artisanal fisheries are shown in Table 2-7-4.

Data of Sea Survey

Table 1-1-1 Project team members and subject allocations

The 2nd survey (4 Oct. - 18 Oct. 2000)

<u>Me</u> mber	Job title	Counterpart	Position
Dr. H. Kimoto	Fishery Resources Survey /	Mr. Johonson K. Atsu	Assistant Fisheries officer, Fisheries Department(FD)
Mr. M. Uno	Stock Assessme	ent	
Mr. H. Dosoden	Fishing Technology /	Mr. R. T. B. Ashong	Principal Technical officer, Fisheries Department(FD)
	Fishing Gear and Meth	nod	, , , , , , , , , , , , , , , , , , , ,
Dr. H. Ishihara	Biological survey	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
		Mr. J. K. Teye	Principal Technical officer, Fisheries Department(FD)
Mr. T. Wada	Oceanographic survey	Mr. Emmanuel K. Dovlo	Assistant Fisheries officer, Fisheries Department(FD)

^{* 1.} Counterparts above are the participants of the field survey.

The 3rd survey (25 Jul. - 13 Aug. 2001)

Member	Job title	Counterpart	Position
Dr. H. Kimoto	Fishery Resources Survey /	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
	Stock Assessment	Mr. R. Pong	Technical officer, Fisheries Department(FD)
Mr. H. Dosoden	Fishing Technology /	Mr. R. T. B. Ashong	Principal Technical officer, Fisheries Department(FD)
	Fishing Gear and Method	<u></u>	
Dr. H. Ishihara	Biological survey	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
		Mr. F. Odai	Senior Technical officer, Fisheries Department(FD)
Mr. T. Wada	Oceanographic survey	Mr. Emmanuel K. Dovlo	Assistant Fisheries officer, Fisheries Department(FD)
	<u> </u>	Mr. E. Nii-Anme	Technical officer, Fisheries Department(FD)

The 4th survey (29 Oct. - 16 Nov. 2001)

Member	Job title	Counterpart	Position
Dr. H. Kimoto	Fishery Resources Survey /	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
		nent Mr. R. Pong	Technical officer, Fisheries Department(FD)
Mr. H. Dosoden	Fishing Technology / Fishing Gear and Met	Mr. R. T. B. Ashong hod	Principal Technical officer, Fisheries Department(FD)
Dr. H. Ishihara	Biological survey	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
		Mr. S. Among	Senior Technical officer, Fisheries Department(FD)
Mr. T. Wada	Oceanographic survey	Mr. Emmanuel K. Dovlo	Assistant Fisheries officer, Fisheries Department(FD)
	<u></u>	Mr. E. Nii-Anme	Technical officer, Fisheries Department(FD)

The 5th survey (20 Jul. - 5 Aug. 2002)

Member	Job title	Counterpart	Position
Dr. H. Kimoto	Fishery Resources Survey /	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
	Stock Assessment	Mr. R. Pong	Technical officer, Fisheries Department(FD)
Mr. H, Dosoden	Fishing Technology / Fishing Gear and Method	Mr. R. T. B. Ashong	Principal Technical officer, Fisheries Department(FD)
Dr. H. Ishihara	Biological survey	Ms. Comfort Yeboah	Assistant Fisheries officer, Fisheries Department(FD)
		Mr. D. Adekpui	Senior Technical officer, Fisheries Department(FD)
Mr. T. Wada		Mr. Emmanuel K. Dovlo	Assistant Fisheries officer, Fisheries Department(FD)
		Mr. E. Nii-Anme	Technical officer, Fisheries Department(FD)

Ms. Anang, Dr. Koranteng, Mr. Banneman and Mr. Hawawre were also Ghanaian counterparts,

^{2.} Mr. M. Uno replaced Dr Kimoto in the course of offshore survey from 13 to 18 Oct..

Table 1-2-1 Specification of LAIDA

Name of Owner	Orestis Kaldelis
Year of Launching	1988
Shipbuilder	Greece
Gross Tonnage	297.6t
L x B x D (m)	37.70 x 9.50 x 4.80
Main Engine	945 ps
Auxiliary Engine	260kva x 2
Capacity of Fish Hold	350.00m3
Fuel Tank	170m3
Fresh Water Tank	20.00m3
Number of Crewmen	30 persons
Cruising Speed	8 knot
Maximum Depth of Trawling	100m
Cruising Range	110 days
Net Monitor	none
Navigation Instrument	SSB, VHF, Radar,
	GPS, Fish Finder

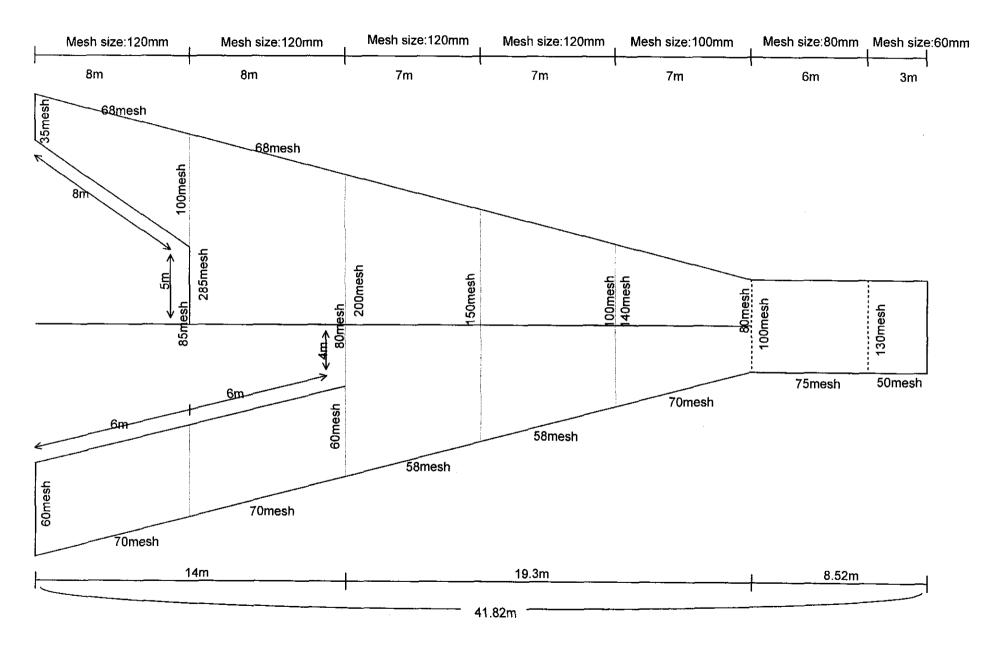
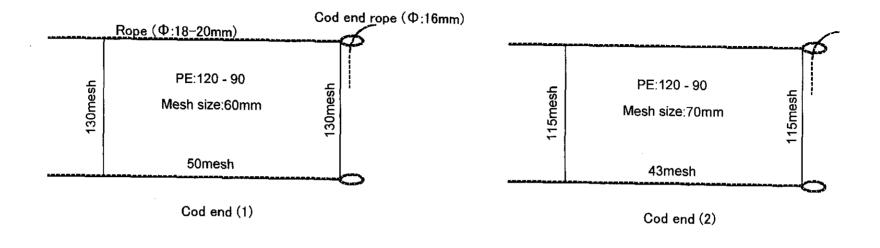


Figure 1-3-1 Plan of the trawl net



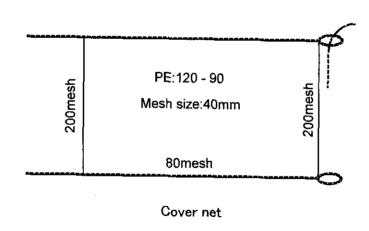


Figure 1-3-2 Plan of the cod end and the cover net

Table 1-4-1 The schedule of offshore survey

The 2nd survey (4 Oct. - 18 Oct. 2000)

THE ZITU SULF	OF (+ OOL	10 000 2000,	
Station No.	Date	Station No.	Date
1	6, Oct.	11	17, Oct.
2	6, Oct.	12	17, Oct.
3	7, Oct.	13	17, Oct.
4	5, Oct.	14	15, Oct.
5	6, Oct.	15	15, Oct.
6	6, Oct.	16	15, Oct.
7	4, Oct.	17	16, Oct.
8	5, Oct.	18	16, Oct.
9	5, Oct.	19	16, Oct.
10	16, Oct.	20	15, Oct.

Station No.	Date
21	15, Oct.
22	14, Oct.
23	14, Oct.
24	13, Oct.
25	13, Oct.
26	12, Oct.
27	12, Oct.
28	12, Oct.
29	12, Oct.
30	12, Oct.

Station No.	Date
_31	11, Oct.
32	11, Oct.
33	11, Oct.
34	11, Oct.
_35	10, Oct.
36	10, Oct.
37	10, Oct.
38	9, Oct.
39	9, Oct.
40	9, Oct.

Station No.	Date
41	7, Oct.
42	18, Oct.
43	5, Oct.
44	17, Oct.
45	16, Oct.
46	13, Oct.
47	11, Oct.
48	10, Oct.
49	10, Oct.
50	9. Oct.

The 3rd survey (25 Jul. - 13 Aug. 2001)

Station No.	Date
1	7, Aug.
2	7, Aug.
3	7, Aug.
4	8, Aug.
5	8, Aug.
6	8, Aug.
7	9, Aug.
8	9, Aug.
9	9, Aug.
10	3, Aug.

-	13 Aug. 2001)
ĺ	Station No.	_Date
	11	3, Aug.
	12	3, Aug.
	13	3, Aug.
	14	2, Aug.
	15	2, Aug.
	16	2, Aug.
	17	2, Aug.
	18	2, Aug.
	19	10, Aug.
	20	27, Jul.

Station No.	Date
21	27, Jul.
22	27, Jul.
23	27, Jul.
24	27 <u>,</u> Jul.
25	1, Aug.
26	28, Jul.
27	28, Jul.
28	28, Jul.
29	28, Jul.
30	28, Jul.

Station No.	Date
31	1, Aug.
32	29, Jul.
_33	29, Jul.
34	29, Jul.
35	30, Jul.
36	30, Jul.
37	30, Jul.
38	31, Jul.
39	31, Jul.
40	31, Jul.

Station No.	Date
41	7, Aug.
42	8, Aug.
43	9, Aug.
44	3, Aug.
45	10, Aug.
46	1, Aug.
47_	1, Aug.
48	29, Jul.
49	30, Jul.
50	31, Jul.
M1_	11,Aug.
M2	11,Aug.
M3	12,Aug.
M4	12, Aug.

M-1~M-4 are the mesh selectivity test stations.

The 4th survey (29 Oct. - 16 Nov. 2001) Date 7, Nov.

Station No.	Date	Station No.	_Date
1	10, Nov.	11	7, Nov.
2	10, Nov.	12	7, Nov.
3	10, Nov.	13	13, Nov.
4	11, Nov.	14	6, Nov.
5	11, Nov.	15	6, Nov.
6	11, Nov.	16	6, Nov.
7	12, Nov.	17	6, Nov.
8	12. Nov.	18	6, Nov.
9	12, Nov.	19	13, Nov.
10	7, Nov.	20	1, Nov.

Station No.	Date
21	1, Nov.
22	1, Nov.
23	1, Nov.
24	31, Oct.
25	31, Oct.
26	2, Nov.
27	2, Nov.
28	2, Nov.
29	2, Nov.
30	2, Nov.

Station No.	Date
31	3, Nov.
32	3, Nov.
33	3, Nov.
34	3, Nov.
35	4, Nov.
36	4, Nov.
37	4, Nov.
38	5, Nov.
39	5, Nov.
40	5, Nov.

Date
10, Nov.
11, Nov.
12, Nov.
13, Nov.
13, Nov.
31, Oct.
3, Nov.
4, Nov.
4, Nov.
5, Nov
14, Nov.
14, Nov.
15, Nov.
15, Nov.

M-1~M-4 are the mesh selectivity test stations.

The 5th survey (20 Jul - 5 Aug. 2002).

Ine oth survey (20 Jul.		
Station No.	Date	
1	31, July.	
2	31, July.	
3	31, July.	
4	1, Aug.	
5	1, Aug.	
6	1, Aug.	
7	2, Aug.	
8	2, Aug.	
9	2, Aug.	
10	28, July	

J Aug. 2002/		
Station No.	Date	
11	28, July	
12	28, July	
13	3, Aug.	
14	27, July	
15	27, July	
16	27, July	
17	27, July	
18	27, July	
19	3, Aug.	
20	21, July	

Station No.	Date
21	21, July
22	21, July
23	21, July
24	21, July
25	26, July
26	22, July
27	22, July
28	22, July
29	22, July
30	22, July

	Station No.	Date
	31	26, July
	32	23, July
ٔ ا	33	23, July
	34	23, July
	35	24, July
	36	24, July
	37	24, July
	38	25, July
	39	25, July
١,	40	25, July

Date
31, July
1, Aug.
2, Aug.
3, Aug.
3, Aug.
26, July
26, July
23, July
24, July
25, July
4, Aug.
4, Aug.
4, Aug.
4, Aug.

M-1 \sim M-4 are the mesh selectivity test stations.

Table 1-5-1 (1) Dates and locations of the fishing operations and the oceanographic observations

The 2nd	survey	(4 Oct	18	Oct.	2000)

ine zna .	survey (4 Uc	st 18 Uct.														
			6 OCTOBER		Stati	on 2 Date:	6 OCTOBER	l	Stati	on 3 Date:	7 OCTOBER		Stati	on 4 Date:	5 OCTOBER	
	FISHING O		OCEAN.		FISHING O		OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		05 52'38"N			05'47'11"N	05 48 48 N	05 46 09 N		05'51'41"N	05 52'19"N	05°50'47"N	-	05°43'12"N	05°44'00"N	05°42'32"N	
		01 02 43 E	01°00'09"E	-	01°00'49"E	01°01'38"E	01 00 07 E	•	01'09'12"E	01°09'50"E	01'08'05"E		00'33'34"E			
Warp L.	75m	75m	-	-	120m	120m			210m	210m	•		80m	80m		
Depth	16m	16m	16m	-	33m	34m	34m	•	55m	56m	55m		22m	19m	22m	<u> </u>
Time	14:45	15 15	14:30	14:39	13:35	13:55	13:15	13:24	7:05	7:25	6:11	6:46	16:55	17:15	16:35	16:43
															10.00	10.10

	Stati	on 5 Date	6 OCTOBER	₹	Stati	on 6 Date	6 OCTOBER	₹	Stati	on 7 Date:	4 OCTOBER	?	Stati	on 8 Date :	5 OCTOBER	, 1
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O		OCEAN.	
-	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
1	05°36'17"N	05 36 31 'N				05°37'00"N			05°42'05"N	05 42'58"N	05 41 46 N		05°40'18"N	05°40'04"N		
Lon.			00'36'31"E	<u> </u>		00*32'00"E	00'33'26"E		00°20'28"E	00°22'43"E	00 19 42 E	-	00°22'56"E	00'21'27"E	00 22 26 E	-
Warp L.	150m	150m	- 10	<u> </u>	190m	190m	-	<u> </u>	70m	70m			120m	120m		-
Depth	39m	40m	40m	-	53m	52m	53m	<u> </u>	20m	21m	20m	•	40m	42m	40m	-
Time	7:00	7:30	6:34	6 46	8:45	9:15	8:14	8:31	16:00	16:30	14:44	15:17	7:24	7:54	6:35	6:49

	Stati	on 9 Date	5 OCTOBER	l .	Stati	on 10 Date	: 17 OCTOB	ER	Stati	on 11 Date	: 17 OCTOB	ÉR.	Stati	on 12 Date	: 17 OCTOB	FD
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O		OCEAN.	
 	START	05 33'50"N 05 35'12"N 0			START	END	START	END	START	END	START	END	START	END	START	END
			00 00 II I		05 27 14 N						05'21'47"N		05°20'56"N	05°21'32"N	05 21 44"N	
Lon.			00'09'25"E	<u> </u>	00'15'56"W		00 16 14 W	-	00°12'59"W	00°11'29"W	00°13'40"W	· ·	00°10′19"W	00'09'53"W	00 13 36 W	-
Warp L.	170m	180m			90m	90m			140m	140m	•	<u> </u>	170m	170m		-
Depth	49m	56m	50m		22m	23m	21m	•	44m	45m	43m	-	53m	53m	44m	
Time	10:30	11:00	10:07	10:15	6:30	7:00	6:00	6:08	8:44	9:14	8:10	8:17	10:20	10:50	8:18	8:32

	Stati	on 13 Date	17 OCTOB	ER	Stati	on 14 Date	: 15 OCTOB	ER	Stati	on 15 Date	: 15 OCTOB	ER	Stati	on 16 Date	: 15 OCTOB	ED
1	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN		FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.			05°19'16"N		05°13'07"N				05'10'09"N	05'09'53"N	05 10 12"N	·				123.72
Lon.		00 07 58 W	00°08'04"W	<u> </u>	00'41'44"W	00°40'34"W	00'42'02"W	-	00'39'40"W	00°38'17"Ŵ	00°40'02"W					<u> </u>
Warp L.	200m	200m		· .	80m	80m			110m	110m		· ·	120m	120m		
Depth	63m	63m	64m	· .	17m	20m	17m	•	25m	28m	25m		36m	36m	35m	
Time	11:58	12:05	11:28	11.46	10:36	11:01	10:24	10:29	12:05	12:35	11:40	11:50	14:15	14:45	14:00	14:06

	Stati	on 17 Date	: 16 OCTOB	ER	Stati	on 18 Date	: 16 OCTOB	ER	Stati	on 19 Date	: 16 OCTOR	ER	Stati	on 20 Date	: 15 OOMOD	tan .
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O		OCEAN.		FISHING O		: 15 OCTOB OCEAN.	
	START	END	START	58'29"N				END	START	END	START	END	START	END	START	END
Lat.	04 58 37"N		04 58'29"N	——		04°53'45"N	04°45'22"N		04'51'13"N	04°52'07"N	04°51'00"N		05'07'20"N		05'07'16"N	
	00°37'56"W		00°38'15"W	<u> </u>	00'38'01"W	00°36'38"W	00'38'23"W		00°35'58"W	00'34'58"W	00°36'22"W	.			00°54'10"W	
Warp L.	170m	170m	-		190m	190m			225m	225m	- "		80m	80m		H
Depth	46m	44m	45m		53m	55m	53m	· ·	65m	65m	64m		20m	20m	20m	
Time	6:30	7:00	6:15	6 20	8:50	9:20	8:20	8:40	10:30	11:00	10:15	10:23	8:05	8:35	7:49	7:55

	Stati	on 21 Date	: 15 OCTOB	ER	Stati	on 22 Date	: 14 OCTOB	ER.	Stati	on 23 Date	: 14 OCTOB	ED.	Ctot	on 04 D-4	: 10 OCTOR	
Į	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN		FISHING O		OCEAN.		FISHING O	on 24 Date		
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	OCEAN. START	END
Lat.		05°03'59"N			04 52 37"N				04°42'20"N		04°42'51"N				04'32'03"N	END
		00 55 16 W	00°57°07"W	-	01°06'16"W		01 06'35"W	•	01°09'08"W	01'07'38"W	01°09'58"W	-	01°09'49"W			-
Warp L.	90m	90m		-	110m	110m			150m	150m		•	180m	180m		-
Depth	24m	23m	24m	C:14	35m	35m	35m	-	43m	43m	43m	-	54m	55m	64m	-
Time	6:35	7:05	6:09	6:14	16:35	17:05	16:23	16:27	14:10	14:40	13:47	13.55	9:34	9:54	9:14	9:45

Table 1-5-1 (2) Dates and locations of the fishing operations and the oceanographic observations

The 2nd survey (4 Oct ~ 18 Oct 2000)

1110 2110	Suivey (4 Cu															
	Stati	on 25 Date	: 13 OCTOB	ER	Stati	on 26 Date	: 12 OCTOB	ER	Stati	on 27 Date	12 OCTOB	ER	Stati	on 28 Date	: 12 OCTOB	ER
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		04 28 16 N					04 59 14 N		04 57 11 N	04°57'08"N	04 57 16"N	-	04 49 54"N	04 49'58"N	04°49'58"N	
		01 10 02 W	01 11 20 W	-	01°23'11"W	01°21'50"W	01°23'32"W	•	01 20 31 W	01'19'16"W	01 21 04 W	-	01°17'29"W	01 15 51 W	01°17'58"W	•
Warp L.	190m	190m	<u> </u>	•	70m	70m			90m	90m		•	100m	100m		-
Depth	63m	61m	64m	<u> </u>	20m	21m	21m		_26m	27m	26m	•	35m	38m	35m	-
Time	7:58	8:28	7:28	7:45	6:33	7:03	6:08	6:13	7:47	8:17	7:35	7:40	9:45	10:15	9:25	9:35

	Stati	on 29 Date	: 12 OCTOB	ER	Stati	on 30 Date	: 12 OCTOB	ER	Stati	on 31 Date	11 OCTOB	ER	Stati	on 32 Date	: 11 OCTOB	ER
1	FISHING O	PERATION	OCEAN	OBS.	FISHING O	PERATION	OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START END START E 04°41'19"N 04'41'23"N 04'41'24"N				START	END	START	END	START	END	START	END	START	END	START	END
Lat.						04 33 31 N			04°22'08"N	04°22'44"N	04°21'55"N	-	04'48'25"N	04°48'11"N	04°48'40"N	-
	01°18'06"W	01 17'10"W	01°19'05"W		01 21 14 W	01 19 52 W	01 [*] 21'49"W	•	01 33'12"W	01°31'48"W	01°33'40"W	-	01'47'43"W	01 46 25"W	01°48'10"W	
Warp L.	130m	_130m	-	-	180m	180m	•		240m	240m		-	90m	90m		
Depth	43.6m	44.2m	44m		52m	51m	52m		71m	70m	70m	•	25m	27m	23m	
Time	12:00	12:30	11:46	11 52	14:15	14:45	13:55	14:05	15:15	15:45	14:50	15:02	7:00	7:30	6:27	6:35

	Stati	on 33 Date	11 OCTOB	ER	Stati	on 34 Date	: 11 OCTOB	ER	Stati	ion 35 Date	10 OCTOBI	ER	Stati	on 36 Date	: 10 OCTOB	ER
	FISHING OF	PERATION	OCEAN,	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		04°44'23"N		-		04'28'12"N			04°49'30"N	04°50'21"N	04°49'57"N	-	04°47'17"N	04 46 35"N	04°47'28"N	
	01 44 48 W		01'45'26"W		01 40 00 W	01°38'41"W	01°40'07"W	•	02 17 43 W	02 18 48 W	02°17'16"W	-	02'18'22"W	02'16'56"W	02°18'50"W	· ·
Warp L.	120m	120m			200m	200m		•	90m	90m	-	-	130m	130m	-	-
Depth	37m	38m	37m		60m_	62m	61m	-	28m	25m	28m	-	42m	41m	41m	-
Time	8:30	9:00	8:14	8:25	11:39	12:09	11:20	11.32	7:20	7:50	6:00	6:11	8:07	8:37	7:51	7:59

	Stati	on 37 Date	: 10 OCTOB	ER	Stati	on 38 Date	: 9 OCTOBE	R	Stati	on 39 Date	9 OCTOBE	R	Stati	on 40 Date	: 9 OCTOBE	R
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
	START END START 04'40'15"N 04'39'18"N 04'40'41"N				START	END	START	END	START	END	START	END	START	END	START	END
							05 01 02 N				04°58'08"N		04 52 42 N	04 52'40"N	04°52'34"N	1
	02°14'29"W	02 13 17 W	02°15'12"W		02 [*] 57'29"W	02 56 04 W	02°55'43"W		02'53'16"W	02°53'41"W	02°55'42"W		02°53'30"W	02 54 34"W	02'53'08"W	-
Warp L.	200m	200m	<u>.</u>		80m	80m	-		150m	150m	-		240m	240m	-	1
Depth	61m	63m	60m		25m	24m	23m		41m	40m	41m	· ·	60m	63m	60m	1
Time	10:15	10:45	9:41	10:02	6:40	7:10	6:07	6:13	8:35	9:05	8:10	8:25	10:30	11:00	10:08	10:20

	Stati	ion 41 Date	: 7 OCTOBE	R	Stati	on 42 Date	: 18 OCTOB	ER	Stati	on 43 Date	5 OCTOBE	R	Stati	on 44 Date	17 OCTOB	ER
-	FISHING O		OCEAN,	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN	
L	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		05 47'05"N			•		05 38 51 N		-	•	05 29 46"N		05 18 56"N	05°18'34"N	05°18'56"N	
	01 08'29"E	01 08 05 E	01°08'43"E	L		-	00 24 06 E	•		-	00°02'13"E		00°06'47"W	00°08'10"W	00'06'16"W	
Warp L.	240m	240m	<u> </u>				· ·	•	-				240m	240m		· -
Depth	76m	77m	78m				78m	_ •		-	68m	-	78m	80m	79m	<u></u>
Time	8:40	8:56	8:02	8:19		•	8:45	9:11			12:41	12:55	14:55	15:25	14:16	14:42

	Stati	on 45 Date	: 16 OCTOB	ER	Stati	on 46 Date	: 13 OCTOB	ER	Stati	on 47 Date	11 OCTOB	ER	Stati	on 48 Date	: 10 OCTOB	ER
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
ļ	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
	05°55'19"N					04°24'02"N				04°20'55"N			04°38'48"N	04°28'35"N		
	00°31'58"W		00'32'10"W			01'11'13"W	01°12'43"W	-	01 [°] 35′44″W	01°34'40"W	01'36'38"W	•	01°59'18"W	01°58'18"W	02'00'14"W	
Warp L.	240m	240m	•	<u> </u>	240m	2 <u>4</u> 0m	•	-	240m	240m	• "	· ·	240m	240m	-	
Depth	79m	85m	78m		76m	78m	76m	-	77m	76m	78m	·	83m	78m	82m	
Time	12:24	12:45	11:52	12:14	6:25	6:55	6:05	6:16	13:58	14:19	13:25	13:45	15:00	15:25	14:29	14:50

Table 1-5-1 (3) Dates and locations of the fishing operations and the oceanographic observations

The 2nd survey (4 Oct. - 18 Oct. 2000)

	Stati	on 49 Date	: 10 OCTOB	ER	Stati	on 50 Date	: 9 OCTOBE	R
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END
Lat.	04°33'32"N	04°32'50"N	04'33'41"N	-	04 48 10"N	04 48 07 N	04°47'55"N	-
Lon.	02 10'35"W	02 [*] 09'16"W	02°11'24"W	•	02°54'28"W	02 52 50 W	02°55'35"W	•
Warp L.	240m	240m	•	-	280m	280m	-	•
Depth	79m	79m	80m	•	77m	76m	79m	
Time	12:25	12:52	11.53	12:14	12:50	13:15	11:59	12:12

The 3rd survey (25 Jul. - 13 Aug. 2001)

		7 AUGUST		Stati	on 2 Date	7 AUGUST		Stati	on 3 Date:	7 AUGUST		Stati	on 4 Date:	8 AUGUST	
					PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.				OBS
				START	END	START	END	START	END	START	END				END
				05°53'07"N	05 53 22 N	05°52'37"N	-	05 51'21"N	05°51'44"N	05°51'01"N					
01'01'13"E	01'02'06"E	01 00'37"E	<u> </u>	01'04'07"E	01°05'40"E	01°03'37"E									
120m	120m		· -	160m	160m			300m		01 00 00 1	-			VI 50 03 E	
24m	26m	22m		36.7m	40.3m	36m	-	60.3m		58m				21-	
6:19	6:49	5:47	5:50	7:39	8:10	7:22	7:28				9:09				5:56
	FISHING OI START 95'51'11"N 91'01'13"E 120m 24m	FISHING OPERATION START END 15'51'11"N 05'52'19"N 1'01'13"E 01'02'06"E 120m 120m 24m 26m	FISHING OPERATION OCEAN START END START ST51'11"N 05'52'19"N 05'50'43"N 01'01'13"E 01'02'06"E 01'00'37"E 120m 120m 24m 26m 22m	FISHING OPERATION OCEAN OBS	FISHING OPERATION OCEAN OBS FISHING O START END START END START D5 51 11 "N 05 52 19 "N 05 50 43 "N 05 53 07 "N 01 01 13 "E 01 02 06 "E 01 00 37 "E 01 04 07 "E 120 m 120 m 160 m 24 m 26 m 22 m 36.7 m	FISHING OPERATION OCEAN OBS. FISHING OPERATION	FISHING OPERATION OCEAN OBS FISHING OPERATION OCEAN START END START END START END START 05'51'11"N 05'52'19"N 05'50'43"N 05'53'07"N 05'53'22"N 05'52'37"N 01'01'13"E 01'02'06"E 01'00'37"E 01'04'07"E 01'05'40"E 01'03'37"E 120m 120m 160m 160m 160m 24m 26m 22m 36.7m 40.3m 36m	FISHING OPERATION OCEAN OBS. FISHING OPERATION OCEAN OBS.	FISHING OPERATION OCEAN OBS. OCEAN OBS.	FISHING OPERATION OCEAN OBS. FISHING OPERATION OCEAN OBS. FISHING OPERATION	FISHING OPERATION OCEAN OBS. OCEAN	FISHING OPERATION OCEAN OBS. FISHING OPERATION OCEAN OBS. FISHING OPERATION OCEAN OBS. FISHING OPERATION OCEAN OBS. START END START	FISHING OPERATION OCEAN OBS FISHING OPERATION OCEAN OBS FISHING OPERATION OCEAN OBS FISHING OPERATION OCEAN OBS OCEAN OBS FISHING OPERATION OCEAN OBS OCEAN OBS	FISHING OPERATION OCEAN OBS OCEA	FISHING OPERATION OCEAN OBS TO OCEAN

	Stati	on 5 Date:	8 AUGUST		Stati	on 6 Date:	8 AUGUST		Stati	on 7 Date:	9 AUGUST		Stati	on 8 Date :	9 AUGUST	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	OBS.	FISHING O		OCEAN.	OBS
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05 40 41 N				05°38'04"N			•	05 39 19 N	05'37'57"N	05'38'40"N	•	05°36'54"N	05°35'27"N	05°37'19"N	
Lon.		00°27'42"E	00 25 44 E		00°28'02"E	00 26 45 E	00'28'40"E		00 09 15 E	00'08'22"E	00'09'49"E				00'07'33"E	
Warp L.	200m	200m			300m	300m		•	100m	100m		-	150m	150m		
Depth	42.1m	46.5m	40m	-	57m	66.6m	55m	-	19m	30.1m	23m		33.3m	38.5m	33m	
Time	7:50	8:20	7:35	7:40	9:25	9:55	9:05	9:09	6:15	6:45	5:50	5:54	7:24	7:54	7:10	7:14

	<u>-T</u>															
		on 9 Date:				ion 10 Date	: 3 AUGUST		Stati	on 11 Date	3 AUGUST		Stati	on 12 Date	: 3 AUGUST	
1	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
<u> </u>	START	END	START	END		END	START	END	START	END	START	END	START	END	START	END
Lat.					05 ² 7'15"N				05 24 13 N	05 22 49"N	05'24'39"N		05°18'16"N		05°18'46"N	
Lon.			00'06'21"E	<u> </u>	00°16'20"W	00 15 22 W	00'16'30"W		00°15'09"W	00'14'46"W	00'15'16"W				00 14 25 W	
Warp L.	340m	340m	`	<u> </u>	100m	100m	-	·	180m	180m		-	240m	240m	001120 11	⊢. −
Depth	50.9m	55.1m	51m		20.2m	29.4m	17m	•	36.6m	40m	33.5m	•	54m	62.6m	52m	
Time	8:52	9:20	8:37	8:41	6:20	6:50	5:56	6:00	7:30	8:00	7:17	7:22	9:08	9:38	8:48	8:57

	T															
1			3 AUGUST				: 2 AUGUST		Stati	on 15 Date	2 AUGUST		Stati	on 16 Date	2 AUGUST	,——
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN,	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		05 15'48"N			05 13 48 N	05 13 52 N	05 14'01"N	-	05°12'51"N	05 12 12 N	05'13'04"N				05°09'07"N	
Lon.	00 12 18 W	00 12'56"W	00 12 19 W	-	00°37'21"W	00 35 42 W	00°38'00"W				00'35'16"W				00'32'29"W	
Warp L.	300m	300m		-	100m	100m	•		100m	100m			120m		00 34 29 W	\vdash
Depth	66m	74.8m	64.5m	<u> </u>	21m	22.5m	21.5m		25.7m	28m	25.6m			120m		<u> </u>
Time	10:18	10:53	10:00	10:08	6:17	6:47	5:55	5:57	7:25			77.1 7	34.7m	38.5m	33,2m	
		10 00	10.00	1000	0.11	0.41	0.00	0.07	1.20	_ 7:55	7:11	7:15	8:53	9:23	8:40	8:44 f

	Chair	17 D-4-	· O. ATTOTTON		- a	10 5							_			
		on 17 Date	ZAUGUSI	<u> </u>	Stati	on 18 Date	: 2 AUGUST		Stati	on 19 Date	: 10 AUGUS	ጥ	Stati	on 20 Date	97 JULY	
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O			ODD
1	START	END	START	END	START	END	START	END	START	END	START	END			OCEAN.	
Lat.	05°06'52"N	UE, UE A DAVI	05 07!1 4!!NI										START	END	START	END
						05 00 42 N			04 56 57"N	04°55'25"N	04°56'57"N	-	05 06 08 N	05°06'23"N	05'05'25"N	
	00 30'57"W	00°31'19"W	00'30'49"W	<u> </u>	00°30'19"W	00°29'13"W	00°31'01"W		00°32'31"W						01°04'16"W	
Warp L.	160m	160m			240m	240m		· .	290m	ĺ	00 02 01 11				01 04 16 W	<u> </u>
Depth	42.6m	44m	40.8m							290m		•	100m	100m		- '
m.				<u> </u>	55m	58.5m	51.5m	[•	59m	64.5m	63m	-	19.8m	19m	22m	
Time	10:02	10:32	9:45	9:53	11:43	12:13	11:20	11:29	8:30	9:00	8:06	8:15				0.00
										3.00	0.00	0.10	6:58	7:30	l 6:10 l	6:22

Table 1-5-1 (4) Dates and locations of the fishing operations and the oceanographic observations

The 3rd s	survey (25 Ju	ul. ~ 13 Aug.	2001)													
1 '	Stati	on 21 Date	27 JULY		Stati	on 22 Date	: 27 JULY		Stati	on 23 Date	27 JULY		Stati	on 24 Date	: 27 JULY	
	FISHING O	PERATION	OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN	OBS.
	START END START END 05'01'36"N 05'01'16"N 05'01'41"N			END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.					04 54 18"N	04 53 10 N	04°54'46"N	-	04°44'09"N	04'43'06"N	04 44'36"N	•	04 33 54"N	04 33 42 N	04°43'07"N	
	01°07'06"W	01'08'39"W	01'06'49"W	-	01'07'48"W	01'09'00"W	01°07'30"W	•	01°04'09"W	01'02'28"W	01°04'45"W	-	01°05'08"W	01 06 33 W	01°04'37"W	-
Warp L.	120m	120m	-	-	130m	130m	,	-	160m	160m	-	-	200m	200m		•
Depth	25.5m	25.5m	25m	· .	36.1m	34.7m	33.6m	-	42.5m	41.5m	41.5m	-	51.3m	50.8m	51.5m	·
Time	8:34	9:04	8:13	8:24	10:38	11:10	10:13	10:20	12:59	13:30	12:40	12:50	15:30	16:00	15:06	15:14

		on 25 Date	1 AUGUST		Stati	on 26 Date	: 28 JULY		Stati	ion 27 Date	: 28 JULY		Stati	on 28 Date	28 JULY	
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat	04 25 45 N				05°01'35"N	05°01'01"N	05 01 59 N	-	04 57 29 N	04°56'10"N	04°57'46"N	-	04°50'19"N	04°49'10"N	04'50'41"N	
	01 09'15"W	01 [*] 10'17"W	01 08'44"W	·	01*20'04"W	01 22 04"W	01°19'33"W	•	01°20'34"W	01 21 42 W	01 20 15 W		01°25'39"W	01°26'40"W	01°25'21"W	
Warp L.	300m	300m	-	•	80m	80m	· ·		100m	100m	•	-	130m	130m	-	-
Depth	65.7m	71.5m	65.5m		17m	20:8m	17m		26m	27.5m	26m	-	35.5m	37m	35,2m	•
Time	12:30	13:00	12:11	12 16	6:30	7:00	5:53	5:56	7:51	8:25	7:37	7:40	9:46	10:15	9:30	9:35

	Stati	on 29 Date	: 28 JULY		Stati	on 30 Date	: 28 JULY		Stat	ion 31 Date	1 AUGUST		Stati	on 32 Date	29 JULY	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
	04°41'43"N						04'32'51"N		04°24'19"N	04'23'30"N	04°24'52"N	-	04°47'42"N	04°47'28"N	04°47'46"N	
	01'27'06"W		01°26'48"W		01'27'57"W	01 29 16 W	01°26'4 <u>5</u> "W	-	01'21'12"W	01 19 49 W	01°22'01"W		01°51'19"W	01°49'42"W	01°51'13"W	-
Warp L.	250m	250m	-	· .	270m	270m	<u> </u>	-	300m	300m			100m	100m	-	-
Depth	44m	46m	44m	<u> </u>	54.9m	54m	53,5m	•	65m	67.7m	64m	-	24m	25.5m	24m	
Time	11:40	12:00	11:25	11 30	13:48	14:16	13:21	13:30	6:40	7:10	6:18	6:20	6:05	6:35	5:35	5:40

		on 33 Date	29 JULY		Stati	on 34 Date	29 JULY		Stati	on 35 Date	30 JULY		Stati	on 36 Date	30 JULY	
-	FISHING O		OCEAN		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		04 41'13"N			04°33'01"N	04°31'37"N	04'33'39"N	•	04 45 29 N	04 47 28"N	04°46'12"N	-	04'41'45"N	04'40'51"N	04°41'55"N	
Lon.		01'51'03"W	01 49 29 W		01'50'46"W	01 51 18 W	01 50 41 W	•	02°08'45"W	02°10'02"W	02°08'00"W					
Warp L.	200m	200m			300m	300m		•	120m	120m	-	-	200m	200m	-	-
Depth	43m	45.7m	42m		60.5m	62m	60m	•	27m	31m	21m		44m	44m	42m	
Time	7:40	8:10	7:24	7:30	9:45	10:15	9:30	9:41	6:17	6:47	5:50	5:54	7:55	8:25	7:38	7:47

	Stati	on 37 Date	: 30 JULY		Stati	on 38 Date	31 JULY		Stati	ion 39 Date	3i JULY		Stati	on 40 Date	31 JULY	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN,	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04 38 46 N				04°57'30"N	04°56'19"N	04°58'09"N		04'55'16"N	04°54'31"N	04 55'18"N		04°50'14"N	04°49'27"N		
Lon.		02 ' 13'00"W	02 11 43 W		02°43'33"W	02'44'28"W	02°43'0 <u>7"</u> W	•	02'45'40"W	02°46'52"W	02'45'06"W		02'47'52"W			
Warp L.	300m	300m	-	•	150m	150m			220m	220m	-	-	320m	320m	•	-
Depth	62m	_68m	60.3m	<u> </u>	27m	32m	24m	•	40m	44m	42m		64m	63m	59.5m	-
Time	9:45	10:15	9:21	9:30	6:19	6:49	6:00	6:03	7:38	8:08	7:24	7:30	9:23	9:42	9:00	9:07

	Stati	on 41 Date	7 AUGUST		Stati	on 42 Date	: 8 AUGUST		Stati	on 43 Date	9 AUGUST		Stati	on 44 Date	: 3 AUGUST	,
	FISHING OF		OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05°49'51"N					05°35'36"N			05°26'53"N	05°25'41"N	05°27'24"N	-	05 15 54"N	05 16 31"N	05 15 40"N	
	01 09 09 E		01°09'01"E	<u> </u>	00 25'11"E	00 24 39 E	00°26'17"E		00°04'54"E	00°04'00"E	00°05'15"E		00'11'16"W			
Warp L.	360m	360m		<u> </u>	440m	440m			400m	400m		-	440m	440m		-
Depth	75.5m	84m	76m	<u> </u>	82.5m	82.5m	78m_	-	80.5m	95m	77m		88m	103m	80m	
Time	11:10	11:40	10:38	10:44	10:55	11:08	10:15	10:30	10 27	10:57	10:05	10:12	11:27	11:57	11:10	11:17

Table 1-5-1 (5) Dates and locations of the fishing operations and the oceanographic observations

The 3rd survey (25 Jul. - 13 Aug. 2001)

1111	E4-4			m	_ ~ · ·	10 10										
1		on 45 Date			Stati	on 46 Date	1 AUGUST		Stati	on 47 Date	: 1 AUGUST	•	Stati	on 48 Date	: 29 JULY	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		04°53'34"N			04'24'01"N	04 [*] 24'09"N	04 24 11 N	<u> </u>	04 21'14"N	04°20'24"N	04'21'39"N	- · · -	04°24'17"N	04°23'35"N	04°24'55"N	
	_	00'32'07"W	00°31'44"W		01°09'49"W	01°08'18"W	01 10 45 W	-	01°21'10"W	01°22'23"W	01°20'34"W				01 51 54 W	
Warp L.	440m	440m	<u> </u>	<u></u>	440m	440m		-	380m	380m	-	•	380m	380m		
Depth	86m	95.3m	<u>87</u> m	-	87m	91.5m	81m	•	76.8m	80.5m	79.5m	-	85m	98m	82m	
Time	9:45	10:15	9:23	9:33	11:00	11:30	10:38	10:46	8:19	8:39	7:48	7:58	11:46	12:16	11:25	11:37

	Stati	on 49 Date	: 30 JULY		Stati	on 50 Date	31 JULY		Stati	ion M1 Date	: 11 AUGUS	ŜT T	Stati	ion M2 Data	: 11 AUGUS	QT T
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	_	FISHING O		OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		04 34 49 N			04 42'16"N				05'07'55"N	05'08'18"N	05 [*] 07'55"N		05'05'35"N		05'05'46"N	
		02°16'13"W	02°14'20"W		02°47'15"W	02'46'31"W	02'47'37"W	-	00°54'10"W	00'52'04"W	00°54'49"W				00°48'44"W	
Warp L.	400m	400m	•		380m	380m		•	90m	90m			120m	120m		
Depth	77m	82m	78m	٠	80m	91.5m	78.5m	-	18.7m	21m	19m	-	25.5m	29.2m	25.2m	$\overline{}$
Time	11:40	12:10	11:15	11:25	11:15	11:45	10:55	11:00	6:55	7:30	6:25	6:29	8:35	9:35	8:25	8:28

	Stati	on M3 Date	: 12 AUGU:	ST	Stati	on M4 Date	: 12 AUGUS	ST
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
(START	END	START	END	START	END	START	END
Lat.	05 13 91 N	05°13'81"N	05 15 60"N	•	05°12'28"N	05°11'12"N	05°12'45"N	•
Lon.	00°36'09"W	00'34'38"W	00'36'85"W		00'30'50"W	00°29'27"W	00'31'26"W	-
Warp L.	120m	120m			160m	160m		
Depth	22,4m	26m	19m	•	32m	36.6m	30.5m	-
Time	6:30	7:10	6:00	6:03	8:02	8:42	7:50	7:54

The 4th survey (29 Oct. - 16 Nov. 2001)

	Stati	on I Date	10 NOVEME	3ER	Stati	on 2 Date:	10 NOVEM	3ER	Stati	on 3 Date:	10 NOVEMI	BER	Stati	on 4 Date:	11 NOVEMI	BER
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
ļ	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05°42'52"N					05 47 07 N			05°47'16"N	05 47 32"N	05°46'32"N	•	05°43'03"N			DIVE
Lon.			00°57'28"E	٠		01 01'18"E	01 00'13"E	•	01 04'37"E	01°05'50"E	01°04'13"E			00°37'53"E		<u> </u>
Warp L.	80m	80m			140m	140m		•	260m	260m			80m	80m	,	<u> </u>
Depth	20m	22m	20m	<u> </u>	35m	37m	31m	•	52m	75m	54m	-	20m	23m	20m	
Time	6.11	6:41	5:44	5 55	7:29	7:59	7:09	7:15	8:59	9:25	8:40	8:47	6:17	6:47	6:05	6:08

	Stati	on 5 Date:	11 NOVEMI	BER	Stati	on 6 Date:	11 NOVEMI	3ER	Stati	on 7 Date	12 NOVEMI	RER	Stati	on 8 Date :	19 NOVEMI	वयव
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN,	OBS.	FISHING O		OCEAN.		FISHING O		OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END		END
		05 36 45 N			05°35'58"N				05 41 36 N	05'41'35"N	05°41'37"N		05°39'46"N	05°38'52"N		
		00 36 31 E	00°37'53"E		00'35'34"E		00 35 58 E	•	00'17'58"E	00 18 22 E	00'17'11"E		00°17'55"E			
Warp L.	150m	150m		-	240m	$240 \mathrm{m}$		•	80m	80m			150m	150m	0010112	
Depth	31m	39m	30m	<u> </u>	50m	55m	51m		21m	22m	20m	-	38m	43m	33m	\vdash
Time	7:55	8:25	7:42	7:46	9:20	9:39	8:58	9:06	6.04	6:12	5:40	5:42	7:13	7:43	6:56	7:00

1	1		on 9 Date	12 NOVEMI	BER	Stati	on 10 Date	7 NOVEMI	3ER	Stati	on 11 Date	: 7 NOVEME	BER	Stati	on 12 Date	: 7 NOVEME	arp
	Į.	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O		OCEAN	
\perp		START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lε			05°35'55"N		-	05 25 25 N	05 25'00"N	05 25 37"N		05 24'11"N	05°24'00"N	05°24'18"N			05 22 56"N		
Lo			00°15'41"E	00 16 46 E	•	00°21'23"W	00°19'52"W	00'21'53"W				00'18'46"W		00 25 40 11	00°13'28"W	00 20 00 19	
W	arp L.	260m	260m	•		70m	70m	-	-	90m	90m	-		140m	140m	00 19 54 W	
$D\epsilon$	epth	59m	71m	55m		18m	21m	16m		28m	31m	27m	•	37m	41m	35m	
Ti	me	8:29	8:59	8:10	8:18	6:23	6:52	5:40	5:43	7:29	7:59	7:18	7:22	8:32	9:02	8:18	8:22

Table 1-5-1 (6) Dates and locations of the fishing operations and the oceanographic observations

The	4+h	SURVEY	120	Oct	_	18	Nov	2001)	

1110 1211	JULY OF TEO O							_								
	Stati	on 13 Date	13 NOVEM	IBER	Stati	on 14 Date	: 6 NOVEMI	BER	Stati	on 15 Date	6 NOVEME	BER	Stati	on 16 Date	6 NOVEMI	3ER
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OÇEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05°13'52"N	05°14'06"N	05°13'42"N	-	05 10 14"N	05 09'33"N	05°10'46"N	•	05 07 55 N	05°06'31"N	05 08 13 N	•	05°00'16"N	04 58 42"N	05°00'48"N	•
	00°18'44"W		00°20'01"W		00'47'35"W	00'48'41"W	00°47'22"W		00'48'44"W	00°48'22"W	00'49'11"W	·	00°48'08"W	00°47'50"W	00'48'14"W	-
Warp L.	250m	250m	-	-	80m	80m		•	100m	100m	-	-	140m	140m	-	· -
Depth	53m	58m	50m	<u> </u>	16m	18m	19m	•	23m	24m	$21 \mathrm{m}$	•	31m	35m	31m	
Time	6:10	6:46	5:45	5:55	6:08	6:38	5:56	5:59	7:15	7:45	7:02	7:05	9:00	9:30	8:49	8:52

	Stati	on 17 Date	6 NOVEMI	BER	Stati	on 18 Date	: 6 NOVEMI	BER	Stati	on 19 Date	: 13 NOVEM	BER	Stati	ion 20 Date	: 1 NOVEMI	BER
1	FISHING OF		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04 54 40"N				04'50'24"N				05°01'16"N	05°01'03"N	05°01'16"N	-	05°06'26"N	05 05 40 N	05°07'05"N	-
Lon.	00'47'13"W	00°48'04"W	00'46'56"W	·	00°45'01"W	00 43'33"W	00 45'33"W	-	00'26'05"W	00°27'32"W	00°25'30"W	•	01°08'10"W	01°06'51"W	01°08'38"W	-
Warp L.	150m	150m	-	-	200m	200m	•	•	250m	250m		-	120m	120m		
Depth	40m	41m	42m	-	52m	55m	5lm		71m	63m	75m	-	17m	18m	16m	-
Time	10:28	10:58	10:15	10:19	12:04	12:34	11:45	11:50	13.09	13:40	12:46	12.57	6:40	7:10	6:10	6:13

	Stati	on 21 Date	1 NOVEM	BER	Stati	on 22 Date	: 1 NOVEMI	BER	Stati	ion 23 Date	1 NOVEMI	BER	Stati	on 24 Date	31 OCTOB	ER
	FISHING O		OCEAN		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05°03'58"N		05'04'25"N		04°55'09"N	04°53'52"N	04°55'31"N		04 44 13 N	04°42'52"N	04°44'52"N		04°31'17"N	04°32'06"N	04°30'54"N	-
	01 06 58 W		01'06'37"W	<u> </u>	01 08'53"W	01'08'04"W	01°09'12"W		01°08'23"W	01'07'44"W	01°08'48"W	٠	01°11'24"W	01'10'18"W	01°12'10"W	-
Warp L.	120m	120m	•	•	160m	160m	· · · · · ·	•	200m	200m	•	•	260m	260m	•	· ·
Depth	21m	21	22m		32m	33m	33m		42m	43m	42m		52m	52m	51m	-
Time	8:03	8:33	7:45	7:51	10:24	10:54	10:01	10:08	12:55	13:25	12:36	12:41	7:40	8:10	7:05	7:12

	Stati	on 25 Date	: 31 OCTOB	ER	Stati	on 26 Date	: 2 NOVEME	BER	Stati	ion 27 Date	: 2 NOVEMI	BER	Stati	on 28 Date	: 2 NOVEMI	3ER
	FISHING O	PERATION	OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04°25'39"N					05°00'56"N		•	04 49 06 N	04°57'41"N	04 59 36"N		04°52'16"N	04 51 00 N	04°52'39"N	-
Lon.	01 11 51 W	01 13'02"W	01°11'20"W		01 23'11"W	01 22 10 W	01 23 18 W		01 22 43 W	01°23'32"W	01°22'20"W		01°26'03"W	01'27'12"W	01 25 37 W	-
Warp L.	300m	300m		-	160m	160m		•	140m	140m	. •	-	140m	140m	-	-
Depth	66m	69m	67m	<u> </u>	19m	20m	17m	٠	21m	24m	22m	-	31m	33m	32m	-
Time	10:07	10:42	10:38	10:46	6:17	6:37	5:40	5:43	7:25	7:55	7:09	7:13	9:15	9:45	9:00	9:04

	Stati	on 29 Date	2 NOVEMI	BER	Stati	on 30 Date	: 2 NOVEMI	3ER	Stati	ion 31 Date	: 3 NOVEMI	BER	Stati	on 32 Date	3 NOVEMI	BER
1	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04 43'13"N	04 42'28"N	04°43'25"N	-	04'36'26"N	04°35'19"N	04°36′57"N	- 1	04'27'02"N	04 26 01 N	04°27'22"N		04°52'43"N	04°52'01"N	04 53 49"N	<u> </u>
	01 27 22 W	01 [*] 26'03"W	01°27'42"W	•	01 27'12"W	01°28'13"W	01°26'37"W		01 33'04"W	01°32'21"W	01°33'24"W		01'42'15"W			
Warp L.	180m	180m	•	-	200m	200m			240m	240m	-		120m	120m		
Depth	42m	46m	44m		53m	55m	52m	-	60m	61m	60m	-	24m	25m	23m	- 1
Time	11:23	11:53	11:10	11 15	13:17	13:47	12:59	13:05	13:02	13:38	12:41	12:50	6:12	6:42	5:47	5:50

	Stati	on 33 Date	3 NOVEM	BER	Stati	on 34 Date	: 3 NOVEMI	BER	Stati	ion 35 Date	4 NOVEMI	BER	Stati	on 36 Date	4 NOVEMI	BER]
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING OF	PERATION	OCEAN.	OBS.
ļ <u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04°48'15"N				04 35 52"N				04 42 10 N	04°42'10"N	04°42'28"N	-	04°41'08"N	04°40'04"N	04°41'31"N	
Lon.	01 41 05 W	01'41'07"W	01'41'49"W	-	01°41'22"W	01°40'24"W	01°41'31"W	-	02°03'49"W	02°02'43"W	02°04'07"W	•	02°03'19"W	02°04'44"W	02°04'07"W	-
Warp L.	140m	140m	•	<u> </u>	190m	190m		,	120m	120m			160m	160m	•	- 1
Depth	34m	36m	34m	<u> </u>	53m	53m	52m	•	26m	29m	27m	- "	35m	43m	34m	
Time	7:57	8:27	7:37	7:42	10:43	11:13	10:26	10:31	6:20	6:50	5:47	5:51	7:32	8:02	7:18	7:22

Table 1-5-1 (7) Dates and locations of the fishing operations and the oceanographic observations

The 4th survey (29 Oct. - 18 Nov. 2001)

	31107 (20 0	04. 10 100	. 2001)													
			4 NOVEMI	BER	Stati	on 38 Date	: 5 NOVEMI	BER	Stati	on 39 Date	: 5 NOVEMI	BER	Stati	on 40 Date	: 5 NOVEMI	8ER
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		04°37'31"N			04°56'49"N				04'55'05"N	04'54'04"N	04°55'26"N	-			04°50′20″N	
		02 07 37 W	02°05'49"W	· ·	02°39'31"W	02°40'14"W	02°39'08"W		02°40'02"W	02'38'57"W	02'40'34"W				02'39'17"W	
Warp L.	200m	200m		<u> </u>	140m	140m	<u> </u>		200m	200m		•	250m	250m	<u> </u>	
Depth	55m	68m	52m	<u> </u>	27m	32m	23m		37m	41m	36m		54m	54m	52m	$\overline{}$
Time	9:05	9:35	8:45	8:53	6:15	6:45	5:47	5 51	7:25	7:55	7:06	7:11	9:06	9:25	8:45	8:50

	Stati	on 41 Date	: 10 NOVEM	IBER	Stati	on 42 Date	: 11 NOVEM	BER	Stati	on 43 Date	: 12 NOVEM	IBER	Stati	on 44 Date	: 13 NOVEM	BER
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN		FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.			7 - 7 - 7	-			05'36'01"N		05 35 05 N	05°34'16"N	05'35'22"N				05 13'25"N	
Lon.		01°08'35"E	01 06 53 E	<u> </u>		00 32'20"E	00°33'07"E		00 15 58 E	00 14'41"E	00°16'17"E				00°15'00"W	
Warp L.	300m	300m		· _	300m	300m			_300m	300m	-	-	300m	300m		\vdash
Depth	76m	90m	78m		82m	100m	82m	•	78m	86m	75m	-	86m	93m	80m	
Time	10:33	11:03	10:09	10:20	10:58	11:13	10:34	10:45	9:54	10:24	9:27	9:38	7:45	8:15	7:21	7:31

		on 45 Date	: 13 NOVEM	IBER	Stati	ion 46 Date	: 31 OCTOB	ER	Stati	on 47 Date	3 NOVEM	BER	Stati	on 48 Date	: 4 NOVEMI	RER
	FISHING O		OCEAN.		FISHING O		OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	
ļ	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		04°58'55"N				04 22 55 N			04°23'10"N				04°29'07"N	04°28'08"N	04°29'36"N	
		00'25'48"W	00 25'48"W	<u> </u>		01 11 11 W	01 13'20"W	<u> </u>	01 33'06"W	01'34'14"W	01 32 37 W				02'01'45"W	
Warp L.	300m	300m		<u> </u>	370m	370m			280m	280m	-	· ·	340m	340m		\vdash
Depth	98m	100m	86m	· · ·	97m	113m	82m		76m	78m	75m		86m	87m	81m	-
Time	11:30	12:00	11:05	11:13	11:50	12:20	11:24	11:32	14:43	15:13	14:16	14:26	13:00	13:30	12:36	12:42

J ,	Stati	on 49 Date	4 NOVEMI	BER	Stati	on 50 Date	: 5 NOVEMI	BER	Stati	on M1 Date	e : 14 NOVE	MBER	Stati	ion M2 Date	e: 14 NOVE	MDED
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.		FISHING O	2722	OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		04°34'17"N					04 44 01 N		05 06'08"N	05'05'47"N	05°07'13"N	-			05°05'12"N	
Lon.		02'06'39"W	02'08'02"W	<u> </u>	02'39'23"W		02'39'50"W		01'07'52"W	01'06'18"W	01 07 04 W				01°04'40"W	
Warp L.	280m	280m		<u> </u>	280m	280m	-		70m	70m	-	-	140m	140m	01 03 30 11	-
Depth	77m	80m	75m		76m	78m	76m		18m	18m	16m	•	22m	24m	20m	
Time	10:33	11:03	10:11	10:20	11:12	11:42	10:51	10:59	6:18	6:48	5:50	5:53	9:20	10:05	7:25	7:27

	Stati	on M3 Date	: 15 NOVE	MBER	Stati	on M4 Date	: 15 NOVEN	ABER 1
	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END
Lat.	05 20 37 N	05°20'49"N	05 22 45 'N		05'21'11"N	05'22'11"N	05°20'49"N	-
Lon.	00 23'43"W	00'22'11"W	00'26'23"W	-	00°20'34"W	00°19'23"W	00°21'10"W	•
Warp L.	120m	120m			150m	150m	-	
Depth	27m _	28m	17m	-	32m	31m	31m	-
Time	7:05	7: <u>35</u>	5:43	5:46	8:15	8:45	8:01	8:05

The 5th survey (20 Jul. - 5 Aug. 2002)

F							_	_								
	Stati		31 JULY		Stati	on 2 Date:	31 JULY		Stati	on 3 Date:	31 JULY		Stati	on 4 Date	1 AUGUST	
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	OBS	FISHING O		OCEAN.	
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
		05 56'04"N			05°55'23"N				05 48'47"N	05°47'39"N	05°49'13"N				05°44'53"N	
Lon.		01°04'49"E	01 05 05 E		01 04 45 E	01°04'15"E	01'04'59"E		01 06'01"E				00°29'49"E	00 20 01 TV	00°30'02"E	
Warp L.	100m	100m			140m	140m			200m	200m		· ·	90m	90m	00 30 02 E	
Depth	25m	29m	24m		33m	35m	32m	[-	52m	60m	51m		20m	24m	20m	-
Time	5:57	6:23	5:38	5:44	7:02	7:32	6:38	6.52	8:55	9:25	8:30	8:41	5:57	6:27	5:38	5.41

Table 1-5-1 (8) Dates and locations of the fishing operations and the oceanographic observations

The 5th survey (20 Jul. ~ 5 Aug. 2002)	The 5	th survey	(20 Jul ~	5 Aug	2002)
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110000	301 107 (20 01	M. UNUE. 2	.002/													
, , , , ,	Stati	on 5 Date:	1 AUGUST		Stati	on 6 Date	1 AUGUST		Stati	on 7 Date:	2 AUGUST		Stati	on 8 Date	2 AUGUST	
1	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05 40 27"N					05°37'50"N			05°39'28"N	05°38'29"N	05 39 53 N	-	05°37'26"N	05 36'22"N	05°37'49"N	-
Lon.	00°29'43"E		00°29'46"E	<u> </u>	00 28 50 E	00 27 32 E	00 29 23 E		00 09 35 E	00°08'53"E	00°09'52"E		00°07'36"E	00'06'47"E	00'07'53"E	-
Warp L.	140m	140m	-	-	190m	190m		•	80m	80m	-	-	125m	125m	-	
Depth	42m	49m	40m	<u> </u>	51m	62m	51m	•	22m	28m	20m	· ·	31m	35m	31m	<u> </u>
Time	7:10	7:40	6:57	7:03	8:15	8:45	7:55	8:05	6:05	6:30	5:42	5:45	7:15	7:45	6:54	7:05

	Stati	on 9 Date:	2 AUGUST		Stati	on 10 Date	: 28 JULY		Stati	on 11 Date	28 JULY		Stati	on 12 Date	28 JULY	
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END												
Lat.	05 32 04 N	05 31 17 N	05 32 28 N	-	05 26'48"N	05 26'24"N	05°27'00"N		05 26 26 N	05 26 07"N	05 26'28"N		05°21'50"N	05°21'28"N	05°21'01"N	
Lon. Warp L.	00 06'26"E	00 05'53"E	00'06'46"E		00°18'56"W	00 17'34"W	00°19'28"W	-	00 16'19"W	00°14'53"W	00 16 58 W		00 13'05"W			
	200m	200m		•	90m	90m	•		120m	120m	·	•	150m	150m	-	
Depth	51m	53m	50m		17m	21m	17m		24m	27m	22m	-	50m	55m	50m	· 1
Time	8:52	9:16	8:37	8:43	6:00	6:30	5:35	5:38	7:22	7:52	7:08	7:15	8:20	8:50	8:05	8:10

	Stati	on 13 Date	3 AUGUST	ר	Stati	on 14 Date	: 27 JULY		Stati	on 15 Date	27 JULY		Stati	on 16 Date	27 JULY	
	FISHING O	PERATION	OCEAN	. OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05 03'59"N				05 15 25"N	05 14'13"N	05°15'59"N	•	05 13 32 N	05 12 14 N	05'13'59"N	-	05°10'50"N	05'09'29"N	05°11'18"N	
	00°23'57"W		00°24'02"W	<u> </u>	00'36'59"W	00 35'51"W	00°36'0 <u>0</u> "W	-	00'35'32"W	00°35'18"W	00°35'41"W			00'34'14"W		
Warp L.	260m	260m	<u> </u>	· .	100m	100m	· · · · · · · · · · · · · · · · · · ·		120m	120m		·	140m	140m	•	· -
Depth	68m	60m	73m		19m	21m	19m	-	24m	26m	24m	· ·	31m	32m	30m	-
Time	10:33	11:03	10:13	10:21	6:04	6:30	5:42	5 45	6:55	7:25	6:43	6:47	8:02	8:32	7:47	7:53

	Stati	on 17 Date	27 JULY		Stati	on 18 Date	: 27 JULY		Stati	on 19 Date	3 AUGUST		Stati	on 20 Date	: 21 JULY	
	FISHING OF	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN,	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05 05 45 N				05 02'25"N	05 01'13"N	05 02'46"N	,	04°56'33"N	04°55'17"N	04°57'05"N	-	05°07'23"N	05°07'32"N	05°07'31"N	
	00°32'12"W	00°31'34"W	00°32'29"W	-	00,30,00.M	00 29 01 W	00'30'19"W	-	00°32'20"W	00°32'30"W	00°32'07"W					
Warp L.	160m	160m			190m	190m			240m	240m			90m	90m	-	T
Depth	42m_	44m	41m		52m	57m	50m	•	61m	68m	60m	•	19m	19m	19m	
Time	9:25	9:55	9:15	9:20	10:40	11:10	10:25	10:32	6:12	6:42	5:57	6:04	5:45	6:15	5:23	5:25

[Stati	on 21 Date	: 21 JULY		Stati	on 22 Date	: 21 JULY		Stati	ion 23 Date	21 JULY		Stati	on 24 Date	21 JULY	
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	05 06'29"N				04°58'15"N	04°56'54"N	04'59'00"N		04'49'15"N	04°48'04"N	04°49'49"N	<u> </u>	04 42'08"N	04°41'07"N	04°42'43"N	
	00°57'35"W	00°57'57"W	00 57'16"W	-	00°58'03"W	00 58'05"W	00'58'01"W		00°57'38"W	00°57'37"W	00'57'40"W			00 53 49 W		
Warp L.	110m	110m	-	•	140m	140m	·	-	170m	170m		· ·	200m	200m	-	
Depth	22m	26m	21m		31m	32m	31m	-	42m	43m	41m	-	51m	55m	51m	
Time	7:07	7:43	6:50	6:54	9:00	9:30	8:40	8:46	11:05	11:35	10:49	10:55	13:02	13:32	12:41	12:50

		on 25 Date	26 JULY		Stati	on 26 Date	: 22 JULY		Stati	on 27 Date	22 JULY		Stati	on 28 Date	22 JULY	
	FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN,	OBS.	FISHING O		OCEAN.	OBS
Ļ,	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.	04 26 40 N			·	05°01'24"N	05 00 10 N	05'01'52"N	-	04 59 16 N	04°58'05"N	04°59'41"N	-	04 54 47"N	04°53'33"N		
Lon.	01°02'50"W		01'03'09"W	<u> </u>	01*22'12"W	01`22'14"W	01'22'11"W		01°22'25"W	01 22 32 W	01°22'01"W		01'23'08"W			
Warp L.	300m	300m		-	90m	90m	-	,	110m	110m	-	-	140m	140m		
Depth	68m	64m	73m	<u> </u>	19m	20m	18m		22m	24m	21m		31m	32m	31m	
Time	12:07	12:37	11:50	11.58	5:45	6:15	5:10	5:13	6:49	7:19	6:34	6:37	8:20	8:50	8:01	8:08

Table 1-5-1 (9) Dates and locations of the fishing operations and the oceanographic observations

	The 5th	current (20	مبيك 5 – ليال	2002)
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		On Date														
		on 29 Date	22 JULY		Stati	on 30 Date	: 22 JULY		Stati	on 31 Date	: 26 JULY		Stati	on 32 Date	: 23 JULY	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	OBS
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	TEND
		04 44 02 N			04'37'44"N			•	04°27'50"N	04°26'20"N	04 28 26"N	_	04°48'26"N	04°48'16"N		
		01 23 28 W	01 23'32"W	<u> </u>	01'23'56"W	01°24'19"W	01°23'55"W		01 17'33"W	01 17'30'W	01°17'26"W		01°49'53"W			
Warp L.	170m	170m	•	<u> </u>	200m	200m			200m	200m			90m	90m	, ,	<u> </u>
Depth	41m	43m	41m	<u> </u>	50m	53m	50m		60m	65m	52m	- ·	23m	24m	22m	
Time	10:40	11 10	10:15	10:27	12:50	13:20	12:20	12:24	6:03	6:33	5:45	5:56	6:15	6:25	5:45	5:50

	Stati	on 33 Date	: 23 JULY		Stati	on 34 Date	23 JULY		Stati	on 35 Date	: 24 ЛИХ		Stati	on 36 Date	: 94 .II II V	
1	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	OBS.	FISHING O		OCEAN.	OBS
ļ	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.				-					04 47 35 N				04°45'55"N	04°44'43"N		
	01 49 43 W		01'49'40"W	<u> </u>	01°49'51"W		01°50'00"W	· .	02°14'29"W	02'14'45"W	02°13'55"W		02'15'17"W	02'15'19"W	02 15 17 W	
Warp L.	110m	110m			200m	200m	•	-	110m	110m	-	-	140m	140m		•
Depth	32m	35m	30m	-	51m	55m	51m	<u> </u>	30m	30m	26m		42m	48m	40m	-
Time	7:25	7:55	7:04	7:12	9:23	9:53	8:55	9:06	6:30	6:40	6:03	6:07	7:52	8:22	7:39	7:44

			24 JULY		Stati	on 38 Date	: 25 JULY		Stati	on 39 Date	: 25 JULY	••	Stati	on 40 Date	: 25 JULY	
	FISHING O		OCEAN.		FISHING O		OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	OBS.
	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
	04°42'56"N				04 59 15 N				04'57'03"N	04 55'38"N	04'57'39"N		04 52 54"N	04'52'18"N	04°53'24"N	
Lon.			02'15'04"W	· .	02 47 40 W	02°48'13"W	02 47'38"W		02'48'18"W						02'47'45"W	
Warp L.	170m	170m	<u> </u>		110m	110m			140m	140m	•	•	200m	200m		
Depth Time	53m	59	51m	<u> </u>	23m	30m	21m		37m	42m	33m	•	50m	53m	51m	
Time	9:00	9:30	8:44	8:51	6:05	6:35	5:46	5:50	7:13	7:43	6:55	7:03	8:35	8:50	8:15	8:23

	Stat	ion 41 Date	: 31 JULY		Stati	on 42 Date	: 1 AUGUST	'	Stati	on 43 Date	: 2 AUGUST	,	Stati	on 44 Date	3 AUGUST	•
1	FISHING O	PERATION	OCEAN	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN	OBS.	FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END		LEND
Lat.		05 46 10 'N			05 36'41"N	05'36'49"N	05 37 01 N		05°27'50"N	05°27'06"N		_				
Lon.		01 04 16 E	01°05'15"E	-	00°25'56"E	00°25'32"E	00°26'37"E		00°05'15"E						00°24'58"W	
Warp L.	260m	260m	•		260m	260m		-	260m	260m	•	-	300m	300m		<u> </u>
Depth	77m	77m	76m	-	77m	78m	76m	•	76m	92m	75m		96m	97m	91m	<u> </u>
Time	10:15	10:43	9:53	9.59	9:28	9:45	9:09	9:16	10:15	10:37	9:59	10:06	9:30	9:55	9:13	9:19

[on 45 Date	3 AUGUST		Stati	on 46 Date	: 26 JULY		Stati	on 47 Date	: 26 JULY		Stati	on 48 Date	: 23 JULY	
	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	OBS.	FISHING O	PERATION	OCEAN.	OBS.	FISHING O		OCEAN.	ORS
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat.		04°53'37"N			04 24 21 N				04°23'41"N	04°23'40"N	04 23 50"N	-	04°28'04"N			
		00'32'16"W	00°32'04"W	<u> </u>	01°05'29"W	01°04'32"W	01°06'04"W		01 14 17 W	01'15'19"W	01°14'47"W			01°54'06"W		
Warp L.	280m	280m	<u> </u>	<u> </u>	290m	290m			280m	280m		•	260m	260m	02 00 11 11	 -
Depth	85m	93m	78m	<u> </u>	93m_	94m	98m		79m	84m	75m	-	76m	79m	76m	1 - 1
Time	7:15	7:32	6:55	7:03	10:50	11:20	10:38	10:45	8:30	8:43	8:15	8:21	12:00	12:30	11:44	11:51

1		ion 49 Date	: 24 JULY		Stat	on 50 Date	25 JULY		Stati	on M1 Date	: 4 AUGUS	T	Stati	on M2 Date	e : 4 AUGUS	T
	FISHING O		OCEAN	OBS,	FISHING O	PERATION	OCEAN	OBS.	FISHING O		OCEAN		FISHING O		OCEAN.	
<u> </u>	START	END	START	END	START	END	START	END	START	END	START	END	START	END	START	END
Lat					04°44'22"N	04°42'58"N	04 45 14 N	-	05 21 43 N	05°21'22"N					05'20'23"N	
		02 17'56"W	02 17'36"W		02 48'10"W	02°47'40"W	02°48'37"W		00 25 50 W						00°21'55"W	
Warp L.	260m	260m			260m	260m			100m	100m	-		120m	120m	00 21 00 11	\vdash
Depth	78m	81m	76m	<u> </u>	77m	77m	76m	·	22m	24m	19m		32m	37m	30m	H . I
Time	10:50	11:20	10:31	10:38	10:36	11:05	10:17	10:23	6:05	6:35	5:42	5:46	7:20	7:50	7:05	7:11
				_										, .00	, 1.00	1 1,77

Table 1-5-1 (10) Dates and locations of the fishing operations and the oceanographic observations

The 5th survey (20 Jul. - 5 Aug. 2002)

the 5th s	survey (ZU JI	11 3 Aug. Z	UUZ)					
	Stati	on M3 Date	: 4 AUGUS'	Г	Stati	on M4 Date	4 AUGUS	Γ
)	FISHING O		OCEAN.		FISHING O	PERATION	OCEAN.	
	START	END	START	END	START	END	START	END
Lat.	05'20'40"N	05 22 19"N	05°19'58"N	-	05 24'31"N	05'25'08"N	05 23'41"N	-
Lon.	00°18'27"W	00'18'16"W	00°18'38"W	-	00'16'41"W	00'15'11"W	00 17'56"W	
Warp L.	110m	110m	-	-	120m	120m		
Depth	37m	33m	37m	·	31m	31m	31m	
Time	9:19	9:49	9:05	9:09	10.55	11:25	10:14	10:19

Table 1-6-1 (1) Oce

Station 1	The 2nd survey (4 Oct 18 Oct. 2000) Station 1 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3]											
Depth[m]	Salinity	Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]					
0.5	35.43	24.90	0.90	53.54	10.00	23.69						
5	35.44	24.83	0.92	53.48	9.83	23.73	23.75					
10	35.75	23.05	0.60	52.02	2.35	24,49	24.53					
Station 2												
	Salinity					SigmaT[Kg/m3]	Density[Kg/m3]					
0.5	33.92	26.44	0.81	53.08	8.52	22.08	22.09					
5	35.29	25.81	0.79	54,31	6.80	23.31	23,34					
10	35.60	25.63	0.62	54.55	7.69		23.65					
15	35.64	25.13	0.72	54.08	10.87	23.79						
20	35.86		0.56	50.71	2.66	24.97						
25 30	35.91 35.86	19,29	0.42	48.29	2.75	25.64						
Station 3	30.00	18.58	0.35	47.50	2.29	25.79	25.92					
	Calinity	Tomp	Cholonolnobl	Conduction Cond	77	C:rtt[xz(o]	Density[Kg/m3]					
0.5	34.42	25.71	0.65	53.01	1 uro(ppm) 6.80	22.68						
5	34.71	25.64	0.64	53.35	6.36							
10	35.50		0.54	54.29	3.70							
15	35.58		0.55	54.25	2.24	23.73						
20	35.61	23.59	0.56	52.41	1.62	24.23						
25	35.93	20.93	0.44	50.02	0.65	25.22						
30	35.95		0.39	49.90	0.70	25.28						
35	35.94		0.41	49.51	0.69	25.37						
40	35.91	19.48	0.46	48.49	0.46							
45	35.85		0.41	47.59								
Station 4				11.00	0.10	L 20.10	20.80					
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	CondlmS/cml	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]					
0.5	35.65	25.24	0.32	54.19	1.87	23.76	23.76					
5	35.67	25.20	0.34	54.18	0.06							
10	35.68	25.20	0.30	54.19	0.34	23.79						
15	35.68	25.17	0.31	54.16	0.31	23.80						
20	35.68	24.91	0.54	53.90	1.91	23.89	23.97					
Station 5												
Depth[m]		Temp[°C]				SigmaT[Kg/m3]	Density[Kg/m3]					
0.5	35.59	25.25	0.27	54.12	0.47	23.71	23.71					
5	35.59		0.25	54.11	0.20	23.72						
10	35.59	25.24	0.26	54.11	0.20	23.72						
15	35.59	25.14	0.28	54.02	0.25	23.75						
20	35.52	23.99	0.34	52.71	0.27	24.04						
25	35.78		0.63		0.29	24.97						
30	35.89 35.80		0.62	50.14	0.45	25.15						
Station 6	33.60	20.86	0.72	49.51	1.35	25.22	25.37					
	Salinito	Temp[9C]	Choloralanti	Condles Size-1	Turblessel	Ciamantizata ol	Density[Kg/m3]					
0.5	35.60	25.14	0.21	54.02	1.33							
5	35.62		0.21	53.99	0.30	23.76						
10	35.61	25.09	0.21	53.99	0.30	23.78 23.78						
15	35.60		0.21	53.92	0.32	23.78						
20	35.58			53.70	0.27							
25	35.55		0.45	51.11	0.27	24.52						
30	35.88		0.63		0.21		25,44					
35	35.89		0.59	48.06	0.30	25.68	25,84					
40	35.86		0.55	47.41	2.58	25.81	25.99					
					2.00	L	20,99					

eanograhi	c data						
Station 7							
	Salinity	Temn[°C]	Choloroloph	Cond[mg/am]	Turblenmi	Ciamanitza/_ gi	Density[Kg/m3]
0.5	35.66	25.14	0.28	54.11	0.37		
5	35.67	25.11	0.28	54.11	0.57	23.80	
10	35.68	24.97	0.38	53.95		23.81	23.84
15	35.69	24.91	0.54		0.48	23.86	
Station 8	00.00	24.01	0.04	53.90	0.74	23.89	23.96
Depth[m]	Qalinitu	TampleCl	Chalanalanki	Candlaction	m 1 []	C: mirr / ol	Density[Kg/m3]
0.5	35.68	24.66	0.38				
5	35.68	24.66		53.61	0.45	23.96	23.96
10	35.68	24.66	0.38	53.61	0.33	23.96	23.98
			0.38	53.62	0.30	23.96	24.01
15	35.68	24.65	0.38	53.61	0.31	23.96	
20 25	35.68 35.69		0.39	53.56	0.40		
30	_	24.19	0.45	53.15	0.42	24.11	24.22
	35.80	21.87	0.69	50.85	0.69	24.86	24.99
Station 9	Ct. 11 11	m toot					
Deptnimi	Salinity	Temp[C]	Cholorolppbi			SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.64	24.74	0.25	53.65	0.33	23.90	23.91
5	35,65	24.70	0.28		0.28	23.93	23.95
10	35.66		0.34	53.54	0.29		24.00
15	35.66	24.57	0.46	53.50	0.30	23.97	24.04
20	35.63	24.35	0.55	53.24	0.30	24.02	24.10
25	35.79	21.59	0.67	50.55	0.28	24.94	
30	35.91	20.37	0.70	49.42	0.48	25.36	25.49
35	35.87	20.04	0.59	49.02	0.36	25.41	25.57
40	35.89	19.20	0.58	48.19	0.43	25.65	25.83
Station 1	D						20.00
Depth[m]	Salinity	Temp[°C]	Cholorolopbl	Cond mS/cml	Turbinami	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.45	26.00	0.18	54.73	4.14	23.37	23.37
5	35.55	26.01	0.17	54.88	0.21	23.45	23.47
10	35.57	26.01	0.16	54.90	0.20	23.46	23.50
15	35.60	25.87	0.17	54.80	0.25	23.53	23.59
Station 1			0.27	04.00	0.20	20.00	23.09
Depth[m]	Salinity	Temp[°C]	Choloroloph	Cond mS/cm	Turblooml	SigmaT[Kg/m2]	Density[Kg/m3]
0.5	33.33	26.10	0.88	51.90	14.24	21.75	
5	35.53	26.13	0.14	55.00	0.24		21.75
10	35.53	26.11	0.16	54.96		23.39	23.42
15	35.54	26.04	0.18	54.96	0.21 0.24	23.40	23.45
20	35.54	25.77				23.43	23.50
25	35.62		0.25	54.63	0.30	23.52	23.60
30		25.31	0.35	54.23	0.30	23.71	23.82
	35.69	24.85	0.49	53.85	0.39	23.91	24.04
Station 13	35.70	24.78	0.45	53.79	0.50	23.94	24.09
		m 1901	(a) 1 T	0 1 0 1			
Depth[m]		Temp[C]	Cholorolppb				Density[Kg/m3]
0.5	35.47	26.32	3.66	55.11	38.47	23.29	23.29
5	35.54	26.30	0.11	55.17	0.22	23.35	23.37
10	35.53	26.14	0.12	55.00	0.25	23.39	23.44
15	35.55	26.08	0.15	54.95	0.25	23.42	23.49
20	35.57	25.99	0.17	54.89	0.22	23.47	23.55
25	35.57	25.99	0.20	54.89	0.23	23,47	23.58
30	35.60	25.52	0,27	54.44	0.25	23.64	23.77
35	35.70	24.77	0.60	53.76	0.30	23.94	24.10
40	35.69	24.73	0.59	53.73	0.30	23.95	24.10
45	35.71	22.57	0.49	51.48	0.44	24.59	
			0.40	01.46	0.44	Z4.59	24.79

Table 1-6-1 (2) Oceanograpic data

The 2nd a	survey (4	Oct	18	Oct.	2000)
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Station 13							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	32.76	26.50	2.87	51.50	226.15	21.19	21.20
5	35.51	26.32	0.10	55.16	0.22	23.32	23,34
10	35.53	26.19	0.11	55.04	0.24	23.38	23.42
15	35.54	26.17	0.13	55.02	0.25	23.39	23.45
20	35.56	26.12	0.15	55.02	0.28	23.42	23.50
25	35.55	26.08	0.16	54.97	0.27	23.43	23.54
30	35.67	24.79	0.55	53.75	0.30	23.91	24.04
35	35.72	24.54	0.65	53.56	0.37	24.02	24.17
40	35.72	24.54	0,60	53.56	0.38	24.02	24.20
45	35.80	21,73	0.56	50.71	0.33	24.90	25.10
50	35.85	20.56	0.47	49.54	0.25	25,26	25.48
55	35.90	19.74	0.38	48.77	0.20	25.52	25.76
Station 14							
Depth[m]	Salinity	Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.47	26.24	0.27	55.01	24.03		23.32
5	35.50	26.23	0.17	55.05	0.60	23.34	23.36
10	35,50	26.02	0.25	54.83	0.70	23.41	23.45
Station 15							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.49	26.34	0.23	55.15	31.59	23.30	23.31
5	35.54	26.30	0.13	55.16	0.31	23.35	23.37
10	35.54	26.06	0.16	54.93	0.30	23.42	23,47
15	35.55	25.95	0.18	54.82	0.32	23.47	23.53
20	35.62	25.41	0.53	54.33	0.71	23.68	23.77
Station 16			_				
Depth[m]	Salinity	Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	33.07	26.00	36.81	51.40	220.05	21.58	21.59
5	35.48	25.99	0.11	54.77	0.19	23.41	23.43
10	35.47	25.76	0.12	54.51	0.18	23.46	23.51
15	35.48	25.64	0.16	54.40	0.20	23.51	23.57
20	35.59	24.42	0.58	53.25	0.59	23.96	24.05
25	35.61	24.30	0.76	53.14	0.70	24.01	24.12
30	35.62	24.20	0.79	53.07	0.82	24.06	24.19
Station 17							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	34.70	26.09	1.38	53.79	68.20	22.78	22.79
5	35.43	26.11	0.13	54.81	0.20	23,32	23.34
10	35.43	26.10	0.15	54.81	0.15	23.33	23.37
15	35.69	25.48	0.24	54.50	0.25	23.72	23.78
20	35.63	24.70	0.41	53.61	0.36	23.91	24.00
25	35.67	24.27	0.49	53.21	1.11	24.07	24.18
30	35.67	24.21	0.48	53.14	1.68	24.09	24.22
35	35.68	23.71	0.51	52.63	11.22	24.25	24.40
40	35.72	23.05	0.55	51.99	0.53	24.47	24.64

Stat	 1	0

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	34.35	26.26	0.82	53.47	83.21	22.47	22.47
5	35.42	26.30	0.10	55.00	0.20	23.26	23.28
10	35.42	26.28	0.13	54.99	0.20	23.26	23.31
15	35,45	26.27	0.15	55.01	0.20	23.30	23.36
20	35.68	25.57	0.22	54.60	0.25	23.68	23.77
25	35.74	24.70	0.37	53.76	0.30	23.99	24.10
30	35.69	23.91	0.63	52.85	0.30	24.19	24.32
35	35.70	23.25	0.64	52.16	0.29	24.39	24.55
40	35.77	21.80	0.49	50.74	0.30	24.86	25.04
45	35.79	21.45	0.48	50.40	0.38	24.96	25.16
Station 16	35.79	21.40	0.50	50.34	0.44	24.98	25.20

Station 19

Depth[m]	Salinity	Temp[°C]	Cheloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	33.29	26.50	35.73	52,21	151.17	21.60	21.60
5	35.42	26.48	0.10	55.20	2.88	23.20	23,22
10	35.43	26.40	0.10	55.13	0.20	23.23	23.27
15	35.53	26.25	0.16	55.12	0.23	23.36	23.42
20	35.67	25.59	0.22	54.60	0.26	23.67	23.75
25	35.76	24.60	0.39	53.67	0.30	24.04	24.15
30	35.68	23.54	0.79	52.44	0.37	24.29	24,42
35	35.67	22.85	0.76	51.71	0.30	24,49	24.64
40	35.73	22.02	0.57	50.93	0.22	24.77	24.95
45	35.78	20.51	0.45	49,41	0.20	25.22	25.42
50	35.82	20.31	0.45	49.26	0.30	25.31	25.53
5 5	35.82	19.94	0.46	48.88	0.31	25.41	25,65
60	35.84	18.98	0.39	47.91	0.34	25.67	25.93

Station 20

1	Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
1	0.5	35.35	26.11	13.78	54.71	59.30	23.26	23.26
l	5	35.44	26.13	0.16	54.85	0.31	23.33	23.35
Ĺ	10	35,44	26 12	0.21	54.84	0.30	23.33	23,37
Ĺ	15	35.44	26.11	0.21	54.84	0.33	23.34	23.40

Station 21

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	34.31	26.04	0.39	53.19	3.98	22.50	22.50
5	35.40	26.12	0.17	54.80	0.20	23.30	23.33
10	35.41	26.12	0.18	54.81	0.20	23.31	23.35
15	35.42		0.20	54.81	0.20	23.32	23.38
20	35.50	25.71	0.51	54.49	0.61	23.50	23.59

Station 22

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/em]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5		25.69	0.18				23.51
5	35.59		0.18	54.56	-0.02	23.59	23.61
10	35.58	25.44	0.20	54.32	0.23	23.65	23.69
15	35.64		0.53	53.40	30.35	2 3.97	24.04
20	35.73	23.56	1.46	52.54	0.86	24.33	
25	35.78		1.55	52.08	0.85	24.50	24,61
30	35.85	22.06	1.48	51.11	1.00	24.85	24.98

Table 1-6-1 (3) Oceanographic data

35.80

35.79

35.77

35.64

35.85

35.90

35.92

18.15

17.91

17.68

17.60

17.43

21.29

20.73

20.23

0.48

0.42

0.34

0.32

0.34

4.01

3.24

1.40

47.02

46.77

46.51

46.43

46.25

51.03

50.30

49.78

49.28

Depth[m] Salinity Temp[°C] Cholorolppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3]

0.20

0.18

0.18

0.20

0.18

48.80

2.10

1.66

0.78

40

45

50

55

60

10

15

Station 32

The 2nd	survey	(4	Oct.	-	18	Oct.	2000)
Station	23						

Station 23					_		
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.17	26.02	24.18	54.36	228.60	23.15	23.16
5	35.59	25.88	0.42	54.80	0.29	23.52	23.54
10	35.63	25.40	4.25	54.35	2.84	23.70	23.74
15	35.67	25.16	1.35	54.14	0.50	23.80	23.86
20	35.74	24.31	1,26	53.33	0.55	24.11	24.19
25	35.81	22.12	1.06	51.12	0.59	24.80	24.91
30	35.87	21.07	0.97	50.10	0.70	25.14	25.27
35	35.90	20,62	0.95	49.68	0.78	25.29	25.44
Station 24							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/em]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	32.25	25.93	6.09	50.15	125.64	20.99	20.99
5	35.55	25.87	0.38	54.73	0.61	23.49	23.51
10	35.54	25.79	0.30	54.63	0.50	23.51	23.55
15	35.49	24.93	0.37	53.65	0.47	23.73	23.80
20	35.58		0.42	51.91	0.42	24.33	24,42
25	35.78		0.45	50.18	0.30	25.02	25.13
30	35.89	19.83	0.54	48.83	0.29	25.49	25.62
35	35.82	18,07	0.44	46.93	0.28	25.88	26.04
40	35.80	17.83	0.53	46.67	0.40	25.93	26.11
45	35.78	17.77	0.66	46.59	0.50	25.93	26.13
Station 2							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.47		4.40	54.39	69.22	23.50	23.50
5	35.50	25.62	0.65	54.40	0.69	23.53	23.55
10	35.54	23.14	0.73	51.84	0.65	24.30	24.35
15	35.79	20.99	0.50	49.92	0.39	25.10	25.16
20	35.77	20.57	0.47	49.45	0.45	25.20	25.29
25	35.85	19.51	0.50	48.45	0.30	25.54	25.65
30	35.85	19.31	0.51	48.26	0.26	25.59	25.73
35	35.85	18.92	0.49	47.85	0.25	25.70	25.85
40	35.76	17.55	0.45	46.34	0.30	25.97	26.15
45	35.74	17.24	0.42	46.01	0.31	26.03	26.23
50	35.74	17.16	0.38	45.92	0.32	26.04	26.26
55	35.75	17.08	0.37	45.85	0.39	26.07	26.31
Station 2	6		•				
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond mS/cm	Turbippml	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.58		0.81	52.05	1.38		24.30
5	35.70	23.08	0.73		1.00	24.45	24,47
10	35.77				1.25	24.61	24.66
15	35.85	20.79	3.36		1.87		25.26
Station 2	7		-				
Depth[m]	Salinity	Temp[°C]	Choloro(ppb)	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.56			52.73			
5	35.83		0.52	·			
10	35.84				1.20		
15	35.89						25.40
20	35.93		1.16		1.28		25.50

anograhi	c data						
Station 2	8						
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.72	24.71	1.11	53.72	19.98	23.97	23.98
5	35.69	23.54	0.37	52.46	0.51	24.30	24.32
10	35.77	21.70	0.56	50.62	0.43	24.88	24.93
15	35.85	20.98	0.71	49.97	0.48	25.15	25.21
20	35.90	20.32	0.91	49.34	0.69	25.36	25.45
25	35.96	19.76			0.77	25.56	25.67
30 Station 2	35.96	19,72	0.68	48.80	0.81	25.57	25.70
		Temo[°C]	Cholorolpph	Cond[mS/cm]	Turbinami	SigmaT[Kg/m3]	Doneitu Kalma
0.5	35.61	25.20	5.99	54.10	82.59	23.74	23.74
5	35.67	24.17	0.32	53.10	0.53	24.10	24.12
10	35.72	21.57	0.66		0.50	24.10	24.12
15	35.85	19.63	0.56		1.07	25.51	25.57
20	35.91	19.34	0.73		0.30	25.63	25.72
25	35.91	19.32	0.79		0.32	25.64	25.75
30	35.94	19.26		48.30	0.45	25.68	25.81
35	35.93			48.09	0.46		25.87
40	35.92	18.94		47.96	0.58	25.74	25.92
Station 3	o –						20.02
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	34.72	25.85	0.53	53.55	16.98	22.87	22.87
5	35.76	24.87	0.35	53.95	0.51	23.96	23.98
10	35.63	21.67	1.03		0.45	24.79	24.83
15	35.90	19.19	0.59	48.18	0.25	25.66	25.73
20	35.88	18.86	0.60	47.82	0.23		25.82
25	35.88	18.78	0.57	47.74	0.21	25.75	25.86
30	35.88	18.70	0.53	47.65	0.25	25.77	25.91
35	35.91	18.74	0.54	47.73	0.40	25.78	25.94
40	35.90	18.64	0.50	47.62	0.48	25.80	25.98
45	35.89	18.51	0.41	47.47	0.50	25.83	26.03
Station 3							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density [Kg/m3]
0.5	35.53	25.00	0.35	53.78	125.14	23.74	23.75
5	35.56	24.32	0.45	53.11	0.50	23.98	24.00
10	35.57	23.31	1.26	52.06	0.72	24.28	24.32
15	35.62	22.08	1.00	50.84	0.56	24.67	24.74
20	35.84	19.86	0.85	48.81	0.41	25.44	25.53
25	35.90	19.42	0.73	48.42	0.30	25.60	25.71
30	35.90	19.05	0.64	48.04	. 0.21	25.70	25.83
35	35.87	18.54	0.54	47.48	0.20	25.80	25.95
40	05.00	10.15	0.40				_0.00

25.86

25.91

25.96

25.98

26.01

24.63

25.06

25.26

25.40

26.04

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26.18

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26.27

24.64

25.09

25.30

Table 1-6-1 (4) Oceanographic data

55 60

25.94

35.81 35.77

35.76

17.46

17.31

0.31

0.27

46.26

46.12

0.97

0.95

26.00

26.03

_						1	fable 1−6−1 (4
The 2nd su Station 33		Oct. ~ 18 C	ot. 2000)				
		Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.36	22.66	1.28	51.10	29.19	24.31	24.31
5	35.82	22.10	1.86	51.10	0.85	24.81	24.83
10	35.91	20.67	2.58	49.72	0.80	25.28	
15	35.92	20.11	0.84	49.15	0.51	25.44	25.50
20	35.91	19.83	0.81	48.85	0.47	25.51	25.59
25	35.90	19.56	0.62	48.56	0.84	25.57	25.68
30	35.89	19.32	0.51	48.31	1.03	25.62	
Station 34			-				
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.10	24.16	0.46	52.32	71.25	23.68	23.68
5	35.64	23.84	0.60	52.70	0.62	24.17	24.19
10	35.70	22.94	0.83	51.84	0.51	24.49	24.53
15	35.74	22.41	1.00	51.33	0.50	24.66	24.73
20	35.91	19.71	0.62	48.73	0.28	25.54	25.63
25	35.92	19.12	0.58	48.13	0.25	25.69	
30	35.93	18.94	0.58	47.96	0.34	25.75	25.88
35	35.91	18.79	0.48	47.79	0.31	25.77	25.92
40	35.89	18.52	0.48	47.48	0.30	25.82	
45	35.85	18.33	0.44	47.24	0.22	25.84	26.04
50	35.83	18.06	0.38	46.95	0.20	25.89	26.12
Station 3							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.34	23.42	1.73	51.88	0.78	24.07	24.08
5	35.35	23.42	1.65	51.89	0.63	24.08	24.10
10	35.35	23.35	1.82	51.81	0.68	24.10	24.15
15	35.38	23.07	2.23	51.56	0.76	24.20	
20	35.78	19.73	1.40	48.60	3.59	25.43	25.52
25	35.85	19.02	0.75	47.95	7.53	25.67	25.78
Station 36							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.14	23.53	1.14	51.72	28.41	23.89	23.89
5	35.33	23,34	1.65	51.77	0.70	24.09	24,11
10	35.44	22.76	2.60	51.31	0.71	24.34	24.38
15	35.61	21.69	2.65	50.41	0.95	24.77	24.83
20	35.79	20.00	2.34	48.89	1,17	25.37	25,46
25	35.89	19.30	0.60	48.28	1,29	25.63	25.73
30	35.87	19.18	0.57	48.13	2.03	25.64	25.77
35	35.87	19.03	0.53	47.98	2.68	25.67	25.83
Station 3'							
Depth[m]	Salinity	Templ ^o Cl	Cholorolppbl				Density[Kg/m3]
0.5	35.30	23.76	1.61	52.17	5.63	23.94	23.95
5	35.31	23.70	2.10	52.13	0.77	23.96	23.99
10	35.38	23.22	2.67	51.71	0.74	24.16	24,20
15	35.49	22.77	2.64	51.39	0.72	24.38	24.44
20	35.66	21.87	2.24	50.67	0.72	24.76	24.85
25	35.82	20.78	1,41	49.72	0.71	25.18	25.28
30	35.95	19.59	0.39	48.66	0.30	25.59	
35	35.92	19.27	0.34	48.29	0.24	25.65	25.81
40 45	35.90 35.87	19.05 18.79	0.31 0.28	48.04 47.74	0.30 0.20	25.69	25.87

anograni	C data						
Station 3							
Depth[m]				CondlmS/cml			Density[Kg/m3]
0.5	34.96	23.30	2.87		12.56	23.82	23.82
	35,11	23.21	3.14	51,35	1.49	23.96	23.98
10	35.81	20.16	3.11			25.34	25.38
15	35.82		1.06			25.52	25.59
20	35.84	18.80	0.72	47.70	1.89	25.71	25.80
Station 39		mPCI	[C1-1[1]	[a 1 a]	m if 3	[C: m[r. al	D : frr ! al
Deptn(m) 0.5	34.96	23.24	Choloro(ppb)	Cond[mS/cm]			Density[Kg/m3]
			2.59		1,15	23.84	23.84
5	35.18		3.76		1,07		24.22
10	35.82		0.86		0.32	25.52	25.56
15	35.84		0.74		0.41	25.62	25.69
20	35.84	18.71	0.69	47.61	0.25	25.74	25.82
25	35.82		0.51	47.36	0.34	25.78	25.89
30	35.83		0.67	47.16	0.20	25.84	25.97
35	35.83	18.17	0.90	47.06	0.21	25.86	26.02
Station 4		1			·		
Depth[m]		Temp[°C]		Cond[mS/cm]			Density[Kg/m3]
0.5	35.13	23.30	2.22		0.80		23.95
5	35.17		2.44	51,26	0.86	24.05	24.08
10	35.51	20.07	1.63	48.61	0.66	25.13	25.17
15	35.84		0.93	47.75	0.37	25.70	25.77
20	35.85	18.67	0.74	47.58	0.27	25.76	25.84
25	35.84	18.60	1.37	47.49	0.23	25.77	25.88
30	35.84	18.50	0.63	47.40	0.20	25.79	25.92
35	35.83	18.30	0.56	47.18	0.20		25.99
40	35.83	18.23	0.53	47.11	0.20	25.85	26.03
45	35.83	18.18	0.50	47,07	0.20		26.06
50	35.83				0.20	25.87	26.09
Station 4							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	34.00	25.89	0.55	52.63	6.66		22.32
5	34.34	25.83	0.62	53.02	6.42	22.59	22.61
10	35.62	25.51	0.47	54.45	2.40	23.66	23.70
15	35.54	24.46	0.41	53.23	1.27	23,92	23.98
20	35.65	22.77	0.43	51.60	0.65	24.49	24.58
25	35.69	22.41	0.47	51.26	0.78	24.62	24.73
30	35.95	20.58	0.44	49.69	0.54	25.33	25.46
35	35.90		0.48		0.38	25.60	25.75
40	35.86		0.49		0.30		25.95
45	35.85	18.35	0.43		0.30		26.04
50	35.83		0.38		0.52	25.88	26.10
55	35.81	17.85	0.34		0.67	25.93	26.17
60					0.07		20.17

26.17 26.26 26.31

Table 1-6-1 (5) Oceanographic data

The 2nd	survey	(4	Oct	18	Oct.	2000)
O	40					

Station 4							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5		26.17	0.59			19.58	19.58
5	35.54	26.18	0.11	55.05	0.26	23.39	23.41
10	35.54	26.12	0.11	54.98	0.27	23.40	23.45
15	35.54	26.11	0.14	54.97	0.24	23.40	23.47
20	35.54	26.09	0.15	54.95	0.21	23.41	23.50
25	35.58	25.96	0.17	54.88	0.20	23.49	23.60
30	35.58	25.88	0.22	54.78	0.21	23.51	23.64
35	35.55	25.32	0.43	54.16	0.27	23.66	23.82
40	35.55	24.57	0.66	53.36	0.38	23.89	24.06
45	35.68	23.02	0.60	51.91	0.37	24.45	24.64
50	35.82	20.54	0.42	49,49	0.47	25.25	25.47
55	35.87	19.86	0.35	48.85	0.30	25.47	25.71
60	35.87	19.66	0.34	48.64	0.30	25.51	25.78
65	35.88	19.61	0.33	48.61	0.32	25.53	25.82
70	35.86	19.24	0.33	48.21	0.52	25.62	25.93
Station 4	_						
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.63	24.87	0.24	53.78	2.54	99 96	02.00

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.63	24.87	0.24	53.78	2.54	23.86	23.86
5	35.65	24.78	0.25	53.70	0.26	23.90	23.92
10	35.65	24.73	0.28	53.66	0.28	23.91	23.96
15	35.66	24.58	0.33	53.51	0.25	23.97	24.04
20	35,62	23.66	0.63	52.50	0.34	24.21	24.30
25	35.87	20.83	0.74	49.85	0.25	25.21	25.32
30	35.92	20.31	0.72	49.37	0.30	25.38	25.51
35	35.93	19.56	0.75	48.60	0.30	25.59	25.75
40	35.94	19.45	0.69	48.50	0.30	25.63	25.80
45	35.93	19.20	0.69	48.24	0.32	25.68	25.88
50	35.89	18.55	0.53	47.52	0.25	25.82	26.04
55	35.88	18.34	0.49	47.29	0.21	25.87	26.11
Station 4	35.87	18.19	0.49	47.13	0.49	25.89	26.15

V							
Station 4							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3
0.5	35.44	26.82	4.53	55.58	75.00	23.11	23.1
5	35.51	26.67	0.11	55.53	0.25	23.21	23.2
10	35.53	26.27	0.11	55.12	0.25	23.35	23.3
15	35.54	26.18	0.15	55.06	0.25	23.39	23.4
20	35.56	26.08	0.17	54.97	0.25	23.43	23.5
25	35.52	25.62	0.31	54.44	0.29	23.55	23.6
30	35.70	24.73	0.72	53.73	0.33	23.95	24.0
35	35.72	24.50	0.72	53.50	0.38	24.04	24.1
40	35.76	22.13	0.66	51.08	0.41	24.76	24.9
45	35.83	21.00	0.59	49.98	0.43	25.13	25.3
50	35.84	20.56	0.49	49.55	0.27	25.26	25.4
55	35,88	19.72	0.43	48.72	0.20	25.51	25.7
60	35.88	19.35	0.34	48.33	0.19	25.60	25.8
65	35.85	18.62	0.29	47.55	0.28	25.77	26.0
70	35.86	18.33	0.28	47,27	0.20	25.85	26.1
75	35.84	18.25	0.28	47.17	0.44	25.86	

Station 45

Depth[m]	Salinity	Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	32.83	26.81	21.03				
5	35.41	26.62	0.11	55.33	0.20	23.15	23.17
10	35,43	26.45	0,11	55.18	0.20	23.22	23.26
15	35.59	26.05	0.16	54.97	0.25	23.46	23.53
20	35,71	25.20	0.27	54.24	0.30	23.82	23.90
25	35.74	24.89	0.38	53.96	0.30	23.93	24.04
30	35.67	23.75	0,84	52,65	0.35	24.22	24.35
35	35.72	23.05	0.79	51.99	0.31	24.47	24.62
40	35.76	22.20	0.62	51.15	0.30	24.75	24.92
45	35.81	20.69	0.47	49.62	0.20	25.20	25.39
50	35.82	20.23	0.44	49.16	0.20	25.32	25.54
55	35.81	20.16	0.43	49.09	0.20	25.35	25.58
60	35.83	20.04	0.38	48.99	0.28	25.39	25.65
65	35.86	19.27	0.39	48,24	0.30	25.61	25.90
70	35.86	18.65	0.38	47.59	0.42	25.76	

Depthimi	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5			0.45	54,69	2.42	23.47	23,48
5	35.53		0.44	54.70	21.17	23.48	23.50
10	35.36			52.95	19.37	23.79	23.84
15	35.62		0.72	49,49	26.29	25.02	25.08
20	35.86			48,60	0.54	25.52	25.60
25	35.80	19.24	0.59	48.12	0.51	25.58	25.68
30	35.85		0.65	47.53	25.25	25.78	25.91
35	35.84	18.33	0.71	47.22	0.45	25.83	25.99
40	35.80	17.95	0.55	46.79	0.29	25.90	26.0
45	35.76		0.34	46.13	0.24	26.01	26.21
50	35.75	17.02	0.36	45.80	0.64	26.09	26.31
55	35.75	16.97	0.34	45.75	29.45	26.10	26.34
60	35.74	16.98		45.75	24.31	26.09	26.36
65 tation 4	35.74	16.98	0.32	45.75	0.83	26.09	26.38

Station 4							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.5	35.49	26.16	0.38	54.96		23.35	
. 5	35.54	23.72	0.46	52.45	0.45	24.13	24.15
10	35.61	22.55	0.89	51.31	0.44	24.53	24.57
15	35.82	20.55	0.95	49.49	2.19	25.24	25.31
20	35.92	19.47	0.71	48.48	0.48	25.60	
25	35.91	19.35	0.67	48.36	0.29	25.63	
30	35.90	19.10	0.61	48.09	0.22	25.68	25,81
35	35.90	18.89	0.58	47.87	0.75	25.74	25.89
40	35.85	18.29	0.60	47.19	0.32	25.85	
45	35.81	18.00	0.49	46.86	0.25	25.89	
50	35.81	17.81	0.40	46.67	0.19	į	26.16
55	35.77	17.52	0.35	46.32	0.15	25.98	
60	35.76	17.22	0.25	46.02	0.20		26.31
65	35.74	17.00	0.22	45.77	0.14	26.09	
70	35.75	16.98	0.20				

Table 1-6-1 (6) Oceanographic data

The 2nd survey (4 Oct. - 18 Oct. 2000) Station 48.

5 35.35 24.45 0.71 52.96 0.59 23.78 23.80	Detable 1							
0.5	Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
10 35.45 23.43 1.70 52.02 0.64 24.16 24.20 15 36.64 22.14 1.27 50.92 11.65 24.67 24.73 20 35.92 19.46 0.46 48.48 0.26 25.60 25.69 25.60 25.69 25 35.94 19.19 0.43 48.23 0.20 25.69 25.60 30 35.93 18.79 0.40 47.81 0.20 25.78 25.92 35 35.93 18.65 0.39 47.67 0.20 25.82 25.88 40 35.89 18.35 0.37 47.31 0.20 25.86 26.04 45 35.89 18.33 0.34 47.30 2.12 25.86 26.04 45 35.89 18.33 0.34 47.30 2.12 25.88 26.07 50 35.90 18.34 0.33 47.31 91.23 25.88 26.10 55 35.85 18.10 0.31 47.03 0.22 25.90 26.14 25.40 25.85 25.90 26.14 25.20 25.30 25.90 26.14 25.20 25.30 25.30 25.30 26.14 25.20 25.30 2	0.5	35.37	24.56	2.36				23.76
15	5			0.71	52.96	0.59	23.78	23.80
20 35.92 19.46			23.43		52.02	0.64	24.16	24.20
25 35.94 19.19 0.43 48.23 0.20 25.69 25.80 30 35.93 18.79 0.40 47.81 0.20 25.78 25.92 35.93 18.65 0.39 47.67 0.20 25.82 25.98 40 35.89 18.36 0.37 47.31 0.20 25.86 26.04 45 35.89 18.33 0.34 47.30 2.12 25.88 26.07 50 35.90 18.34 0.33 47.31 91.23 25.88 26.07 55 35.85 18.10 0.31 47.03 0.22 25.98 26.10 26.14 26.10 27.00 2	15	35.64	22.14	1.27	50.92	11.65	24.67	24.73
30 35.93 18.79 0.40 47.81 0.20 25.78 25.92 35 35.93 18.65 0.39 47.67 0.20 25.82 25.98 40 35.89 18.36 0.37 47.31 0.20 25.86 26.04 45 35.89 18.34 0.33 47.30 2.12 25.88 26.07 50 35.90 18.34 0.33 47.31 91.23 25.88 26.10 55 35.85 18.10 0.31 47.03 0.22 25.90 26.14 Station 49 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 34.20 24.41 1.20 51.35 52.17 22.92 22.92 22.92 5 35.32 24.04 1.27 52.48 0.64 23.87 23.89 10 35.36 23.59 1.55 55.07 0.61 24.04 24.08 15 35.55 22.70 1.97 51.39 0.63 24.44 24.55 20 35.71 21.77 1.58 50.62 0.60 24.82 24.41 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.66 25.68 40 35.92 18.73 0.36 47.73 0.20 25.88 25.94 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.68 25.64 40 35.92 18.73 0.36 47.73 0.20 25.88 25.84 40 35.92 18.73 0.36 47.73 0.20 25.88 25.84 20 35.84 19.04 0.39 48.01 0.20 25.68 25.68 24.40 35.92 18.73 0.36 47.73 0.20 25.80 25.69 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 22.76 5 35.83 18.47 0.62 47.36 0.20 25.88 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 35.83 18.47 0.62 47.36 0.20 25.82 25.90 35 35.83 18.37 0.60 47.21 0.27 25.83 25.90 36 35.84 18.35 0.99 47.25 0.21 25.75 25.84 20 35.83 18.35 0.99 47.25 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.89 25.90 25.90 36 35.84 18.93 0.63 47.11 0.22 25.85 25.90 36 35.84 18.93 0.63 47.11 0.22 25.85 25.90 36 35.84 18.94 0.69 44.24 46.89 0.20 25.99 25.90 36 35.84 17.99 0.48 46.89 0.20 25.99 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.99 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.99 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.99 25.90 26.14 55 35.89 17.78 0.35 46.64 0.17 25.95 25.22 66 35.79 17.72 0.34 46.66 0.18 25.95 25.22	20	35.92	19.46	0.46	48,48	0.26	25.60	25.69
35 35.93 18.65 0.39 47.67 0.20 25.82 25.98 40 35.89 18.36 0.37 47.31 0.20 25.86 26.04 45 35.89 18.33 0.34 47.30 2.12 25.88 26.07 50 36.90 18.34 0.33 47.31 91.23 25.88 26.10 55 35.85 18.10 0.31 47.03 0.22 25.90 25.10 26.14 25.15 35.85 18.10 0.31 47.03 0.22 25.90 26.14 26.10 25	25	35.94	19.19	0.43	48.23	0.20	25.69	25.80
35 35,93 18.65 0.39 47.67 0.20 25.82 25.98	30	35.93	18.79	0.40	47.81	0.20	25.78	25.92
45 35.89 18.33 0.34 47.30 2.12 25.88 26.07 50 35.90 18.34 0.33 47.31 91.23 25.88 26.10 55 35.85 18.10 0.31 47.03 0.22 25.90 26.14 Station 49	35			0.39	47.67	0.20	25.82	
Station 49 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] Den	40	35.89	18.36	0.37	47.31	0.20	25.86	26.04
Station 49 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3]	45	35.89	18.33	0.34	47.30	2.12	25.88	26.07
Depth[m] Salinity Temp[°Cl Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3]	50	35.90	18.34	0.33	47.31	91.23	25.88	26.10
Depth m Salinity Temp °C Choloro pph Cond mS/cm Turb ppm SigmaT[Kg/m3] Density[Kg/m3]			18.10	0.31	47.03	0.22	25.90	26,14
0.5 34.20 24.41 1.20 51.35 52.17 22.92 22.92 5 35.32 24.04 1.27 52.48 0.64 23.87 23.89 10 35.36 23.59 1.55 52.07 0.61 24.04 24.08 15 35.55 22.70 1.97 51.39 0.63 24.44 24.50 20 35.71 21.77 1.58 50.62 0.60 24.82 24.91 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.69 35 36.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76								
0.5 34.20 24.41 1.20 51.35 52.17 22.92 22.92 5 35.32 24.04 1.27 52.48 0.64 23.87 23.89 10 35.36 23.59 1.55 52.07 0.61 24.04 24.08 15 35.55 22.70 1.97 51.39 0.63 24.44 24.50 20 35.71 21.77 1.58 50.62 0.60 24.82 24.91 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.69 35 36.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76 22.76	Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
10 35 36 23.59 1.55 52.07 0.61 24.04 24.08 15 35.55 22.70 1.97 51.39 0.63 24.44 24.50 20 35.71 21.77 1.58 50.62 0.60 24.82 24.91 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 \$\$\$\$Station 50\$\$\$Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 35.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.35 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.60 47.21 0.27 25.83 25.90 36.03 45 35.84 17.99 0.48 46.89 0.20 25.92 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 25.91 25.95 50.25 35.83 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	0.5	34.20	24.41	1.20	51.35	52.17	22.92	
15 35.55 22.70 1.97 51.39 0.63 24.44 24.50 20 35.71 21.77 1.58 50.62 0.60 24.82 24.91 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 25.00 25.97 25.00 25.97 25.00 25.97 25.00 25.00 25.97 25.00 25.00 25.97 25.00 25.00 25.00 25.00 25.97 25.00					52.48	0.64	23.87	23.89
20 35.71 21.77 1.58 50.62 0.60 24.82 24.91 25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.69 35 35.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.60 25.97 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.99 56.69 22.76 22.76 0.5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.75 25.84 25 35.83 <		35.36	23.59	1.55	52.07	0.61	24.04	24.08
25 35.90 19.89 0.97 48.90 0.52 25.48 25.59 30 35.89 19.58 0.43 48.58 0.29 25.56 25.69 35 35.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.75 25.21 <	15	35.55	22.70	1.97	51.39	0.63	24.44	24.50
30 35.89 19.58 0.43 48.58 0.29 25.56 25.69 35 35.88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.35 0.60 47.21 0.27 25.83 25.99 40 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.32 0.60 47.21 0.27 25.85 26.03 45 35.83 18.32 0.60 47.21 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 25.95 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65.24 25.95 26.24 26.54 26.55 35.79 17.72 0.34 46.56 0.18 25.95 26.24					50.62	0.60	24.82	24.91
35 35,88 19.04 0.39 48.01 0.20 25.68 25.84 40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.93 0.60		35.90	19.89	0.97	48.90	0.52	25.48	25.59
40 35.92 18.73 0.36 47.73 0.20 25.80 25.97 Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.23 0.60 47.21 0.27		35.89	19.58	0.43	48.58	0.29	25.56	25.69
Station 50 Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 35.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22	35			0.39	48.01	0.20	25.68	25.84
Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3] 0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 35.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03			18.73	0.36	47.73	0.20	25.80	25.97
0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 36.83 18.23 0.60 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
0.5 33.74 23.79 2.15 50.09 56.69 22.76 22.76 5 35.24 23.35 3.49 51.66 0.83 24.02 24.04 10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 36.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 36.83 18.23 0.60 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 <td< td=""><td>Depth[m]</td><td>Salinity</td><td>Temp[°C]</td><td>Choloro[ppb]</td><td>Cond[mS/cm]</td><td>Turb[ppm]</td><td>SigmaT[Kg/m3]</td><td>Density[Kg/m3]</td></td<>	Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
10 35.66 20.21 1.77 48.94 0.55 25.21 25.26 15 35.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81	0.5	33.74	23.79	2.15				22.76
15 35.85 18.86 0.66 47.78 0.21 25.71 25.78 20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 36.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79	5	35.24	23.35	3.49	51.66	0.83	24.02	24.04
20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	10		20.21	1.77	48.94	0.55	25,21	25.26
20 35.85 18.69 0.81 47.60 0.21 25.75 25.84 25 35.83 18.47 0.62 47.36 0.20 25.79 25.90 30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24						0.21	25.71	
30 35.83 18.35 0.59 47.25 0.21 25.82 25.96 35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	20	35.85	18.69	0.81	47.60	0.21	25.75	
35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24			18.47	0.62	47.36	0.20	25.79	25.90
35 35.83 18.32 0.60 47.21 0.27 25.83 25.99 40 35.83 18.23 0.63 47.11 0.22 25.85 26.03 45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24			18.35	0.59	47.25	0.21	25.82	25.96
45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	35		18.32	0.60	47.21	0.27	25.83	25.99
45 35.84 18.04 0.50 46.93 0.20 25.90 26.10 50 35.84 17.99 0.48 46.89 0.20 25.92 26.14 55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24						0.22		
55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	45	35.84	18.04	0.50	46.93	0.20		
55 35.82 17.88 0.42 46.75 0.20 25.93 26.17 60 35.81 17.78 0.35 46.64 0.17 25.95 26.22 65 35.79 17.72 0.34 46.56 0.18 25.95 26.24			17.99	0.48	46.89	0.20	25.92	26.14
65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	55	35.82	17.88	0.42	46.75	0.20		
65 35.79 17.72 0.34 46.56 0.18 25.95 26.24	60	35.81	17.78	0.35	46.64	0.17	25.95	26.22
	65	35.79	17.72	0.34	46.56	0.18		
	70	35.79	17.66	0.34	46.50		25.96	26.27

The 3rd survey (25 Jul. - 13 Aug. 2001) Station 1

30 35

35.81

40 35.77

19.39

18.72

Station 1	ne	sra	survey	(25	Juj.	-	13 /	Aug.	2001)	
	sta	tion	1							

Station 1							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.36	21.13	0.89	49.51	6.30	24.74	24.74
5	35.63	20.39	0.86	49.10	3.90	25,14	25.16
10	35.83	19.67	0.74	48.59	2.50	25.49	25.53
15	35.83		0.50	48.37	1.35	25.54	25.60
20	35.83	19.31	0.60	48.23	2.75	25.58	25.67
Station 2					-	r	
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]				Density[Kg/m3]
0.55	35.37	21.50		49.91	5.63	24.63	24.64
5	35.46		0.75	49.91	5.09	24.74	24.77
10	35.71	21.05		49.87	2.04	25.02	
15	35.76			49.63	0.86	25.14	25.21
20	35.80	20.44		49.35	0.64	25.26	25.35
	35.82	19.51	0.43	48.41	0.30	25.52	25.63
30	35.83	19,14		48.05	1.89		25.75
Station 3	35.82	19.00	0.48	47.89	1.70	25.65	25.81
	Salinity	Town OC	Choloroloph	Conding Class	Tamble	le:mfiz(al	Density[Kg/m3]
0.75	35.04	21.88	0.50	49.88			
5	35.18	21.76		49.88	2.07 1.57	24.28	24,29
10	35.54	21.60		50.23	0.72		24.44
15	35.76	20.27	0.38	49.13	0.12		24.78
20	35.80	19.93		48.83	0.46		25.34
25	35.82	19.74	0.65	48.64	0.35	25.40	25.48
30	35.81	19.15		48.03	0.35	25.45 25.60	25.56
35	35.80	18.40		47.26	0.26	25.79	25.74
40	35.79	18.19		47.03	0.20	25.83	25.94
45	35.79	18.09		46.93	0.26	25.85	26.01
50	35.75	17.77	0.34	46.56	0.75	25.85	26.05
55	35.72	17.12	0.32	45.87	2.72	26.04	26.13
Station 4			0.02	40.01	2.12	20.04	26.28
Depth[m]	Salinity	Temp[°C]	Chalaroloub	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.78	21.51	5.08	50.44	1.59	24.95	24.95
5	35.78	21.51	5.30	50.44	1.61	24.95	24.97
10	35.79	21.13		50.05	2.14	25.06	25.11
15	35.79	21.00	2.18	49.92	2.00	25.10	25.16
20	35.80	20.21	1.09	49,12	9.64	25.32	25.41
Station 5							20.11
Depth[m]	Salinity	Temp[°C]	Choloro(ppb)	Cond[mS/cm]	Turbippm	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.79	21.63	3.68	50,58	1.10	24.92	24.93
5	35.79	21.62	3.52	50.56	1.08	24.92	24.95
10	35.79	21.46	3.10	50.40	1.03	24.97	25.01
15	35.75	20.96	1.51	49.84	0.81	25.08	25.14
20	35.81	20.17	0.81	49.09	0.97	25.33	25.42
25	35.79	19.77	0.63	48.65	2.73	25.43	25,54
30	35.80	19.55	0.59	48.44	2.99	25.49	25.62
35	95.81	19 30	0.60	40.00	2.07	05.44	25.32

48.28

47.55

0.60

0.54

3.67

4.84

25.54 25.68

25.70

Table 1-6-1 (7) Oceanograhic data

The	3rd	survey	(25	Jul	13	Aug.	2001	I)
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Station 6							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.65	35.78	21.93	0.42	50.87	19.59	24.83	24.84
5	35.78	21.81	0.55	50.74	0.66	24.86	24.88
10	35.78	21.60	0.78	50.54	0.61	24.92	24.97
15	35.73	21.25	0.90	50.11	0.60	24.98	25.05
20	35.81	19.55	1.19	48.44	0.47	25.50	25.59
25	35.80	19.08	0.51	47.94	0.35	25.61	25.72
30	35.77	18.63	0.37	47.45	0.35	25.71	25.84
35	35.79	18.49	0.33	47.34	0.87	25.76	25.91
40	35.79	18.45	0.36	47.31	1.35	25.77	25.95
45	35.76	18.30	0.45	47.11	3.48	25.79	25.98
50	35.72	17.42	0.63	46.16	6.53	25.97	26.19
55	35.72	17.27	0.97	46.02	9.10	26.00	26.24
Station 7					_		
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.78	20.79	3.93	49.69	1.71	25.15	25.15
5	35.79	20.60	4.28	49.51	1.20	25.21	25.23
10	35.78	20.36	2.72	49.24	1.35	25.26	25.31
15	35.80	20.04	2.16	48.94	1.81	25.36	25.43
20	35.80	19.82	1.67	48.71	2.62	25.43	25.52
Station 8							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.95	35.80	20.70		49.62	1.15	25.18	25.18
5	35.80	20.70	4.50	49.62	1.10	25.18	25.21
10	35.80	20.69	4.20	49.61	1.15	25.18	25.23
15	35.80	20.36	2.29	49.27	0.88	25.28	25.35
20	35.82	19.72	1.20	48.63	1.19	25.46	25.55
25	35.82	19.53	0.79	48.42	1.56	25.51	25.62
30	35.81	19.43	0.68	48.32	1.33	25.53	25.66
Station 9							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.80	21.32	0.34	50.26	1.30	25.01	25.02
5	35.79	21.30	0.39	50.23	0.53	25.01	25.04
10	35.80	20.87	1.87	49.79	0.80		25.19
15	35.80	20.74	2.21	49.66	0.63	25.17	25.24
20	35.78	19.75	1.48	48.61	0.63	25.42	25.51
25	35.81	19.58	1.33	48.47	0.52	25.49	25.60
30	35.78	19.22	0.97	48.07	0.56	25.57	25.70
35	35.80	18.71	0.79	47.58	0.74	25.71	25.86
40	35.79	18.35	0.50	47.20	0.50	25.79	25.97
45	35.77	18.15	1.08	46.97	0.97	25.83	26.03
50	35.77	18.09		46.91	2.30		26.06
Station 1						25.51	20.00
Depth[m]	Salinity	Temp[°C]	Cholorolophl	Cond[mS/cm]	Turbloom	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.77	20.94	0.95	49.83	1.58		25.10
5	35.77	20.53		49.41	1.78		25.23
10	35.78	20.11	1.08	48.99	2.58	25.33	25.38
15	35.80	19.22	1.14	48.09	4.71	25.57	25.64
<u></u>				70.00	3.11	20.01	20.04

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Station 11							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.68	21.67	0.86	50.48	0.87	24.84	24.84
5	35.73	20.68	0.82	49.51	0.70	25.14	
10	35.81	19.44	0.68	48.32	0.75	25.53	
15	35.78	18.83	0.59	47.66	0.48	25.66	
20	35.77	18.47	0.48	47.28	0.58	25.74	
25	35.77	18.37	0.50	47.19	1.03	25.77	
30	35.76	17.96	0.49			25.87	26.00
Station 12	2					·	
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.7	35.57	22.51	0.54	51.22	0.47	24.51	24.51
5	35.57	22.43	0.59	51.14	0.40	24.53	
10	35.78	19.88	0.55	48.75	0.30	25.39	25.43
15	35.80	19.03	0.44	47.89	0.20	25.63	25.69
20	35.79	18.50	0.32	47.33	0.20	25.75	25.84
25	35.78	18.31	0.35	47.14	0.20	25.79	
30	35.77	17.87	0.28	46.68	0.21	25.90	
35	35.75	17.48	0.27	46.25	0.20	25.97	26.13
40	35.73	17.32	0.27	46.08	0.36	26.00	26.18
45	35.73	17.15	0.23	45.91	0.29	26.04	26.24
50	35.73	17.11	0.23	45.86	0.45	26.05	26.27
Station 13				7		-	
Depth[m]	Salinity	Temp[°C]	Cholorolopbl	CondlmS/cml	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.49	22.91	0.33	51.53	0.32	24.33	24.34
5	35.49	22.21	0.46	50.80	0.33	24.53	24.55
10	35.76	20.09	0.41	48.94	0.24	25.32	25.37
15	35.79	19.69	0.42	48.57	0.24	25.45	25.52
20	35.83	19.30	0.43	48.20	0.21	25.58	25.67
25	35.81	18.84	0.39	47.71	0.20	25.68	25.79
30	35.78	18.37	0.30	47.20	0.20	25.78	25.91
35	35.78	18.01	0.27	46.83	0.20	25.87	
40	35.75	17.70	0.29	46.48	0.20	25.92	26.02
45	35.73	17.22	0.25	45.98	0.20	26.02	26.10
50	35.73	17.10	0.22	45.85	0.21	26.05	26.22
55	35.70	16.77	0.22	45.49	0.21	26.11	26.27
60	35.68	16.50	0.18	45.19	0.30	26.11	26.35
65	35.67	16.42	0.83	45.11	8.24		26.42
Station 14		10.11	0.00	40.11	0.24	26 .16	26.45
Depth[m]		Temp[°C]	Cholorolpphl	Condin Stem	Turblooml	CiamoT[Valmo]	Density[Kg/m3]
0.65	35.73	21.17	0.99	50.01	1.56	25.00	
5	35.72	21.10	0.95	49.93	1.56	25.00	25.01
10	35.81	19.34	0.88	48.23	0.58	25.55	25.04
15	35.80	19.19	0.94	48.05	1.14	25.58	25.60
20	35.80	19.03	0.87	47.90	4.30		25.65
Station 1		15.00	0.01	41.50	4.30	25.63	25.71
		Temp[°C]	Cholorolophi	Candim Clami	T., 1	C:	Density[Kg/m3]
0.55	35.71	21.38	0.69	50.21			
	35.70	21.09	0.83		0.80	24.93	24.94
			0.00	49.89	0.70	25.00	25.02
5			0.65	40 02	0.00	0 0 0 0	
5 10	35.72	20.05	0.65	48.85	0.60	25.30	25.35
5 10 15	35.72 35.82	20.05 19.53	0.60	48.43	0.47	25.51	25.58
5 10	35.72	20.05					25.35 25.58 25.68 25.80

Table 1-6-1 (8) Oceanographic data

The 3rd su		Jul 13 /	Aug. 2001)			'	labie I-0-I (8)
Station 10		m teal	0.1.1.1.1	o no i	m . ()	o mirro	
Depth[m]	Salinity 35.48						Density[Kg/m3]
5	35.48	22.75	0.41 0.45	51.35	27.16	24.37	24.37
10	35.49	22.73 22.57	0.49		0.30	24.37	24.40
15	35.49	21.93			0.31	24.43	24.47
20	35.75	19.69			0.30	24.61 25.42	24.67 25.50
25	35.81	19.01	0.43		0.30	25.64	
30	35.79	18.39			0.69		
Station 1'		10.00	0.11	17.24	0.00		20.01
		Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.39	23.20	0.39		0.39	24.18	
5	35.38	23,13			0.29	24.19	
10	35.41	22.51	0.44	51.01	0.30	24.38	
15	35.77	19.69	0.38	48.53	0.20	25.43	25.50
20	35.82	18.95	0.43	47.84	0.21	25.66	25.75
25	35.80	18.70	0.39	47.55	0.20	25.72	25.82
30	35.78	18.39	0.39	47.23	0.23	25.78	25.91
35	35.77	18.09	0.41	46.90	1.09	25.83	25.99
40	35.77	17.86	0.36	46.66	2.56	25.90	26.07
Station 18							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.28	23.71	0.32	52.09	0.28	23.94	23.94
. 5	35.26	23.59	0.34	51.95	0.21	23.96	23.98
10	35.27	23.43	0.40	51.80	0.30	24.02	24.06
15	35.75	20.53	0.34	49.38	0.25	25.19	25.26
20	35.79	19.21	0.45	48.07	0.24	25.58	25.66
25	35.80	18.79	0.35	47.65	0.25	25.69	25.80
30	35.79	18.62	0.33		0.21	25.73	25.86
35	35.78	18.50	0.32		0.20	25.75	25.90
40	35.77	17.95	0.31	46.76	0.21	25.88	26.05
45	35.74	17.68	0.27	46.46	0.24	25.93	26.12
50	35.75	17.60	0.32	46.38	1.27	25.95	26,17
Station 19							
	Salinity						Density[Kg/m3]
0.65	35.32	23.04	0.48	51.45	0.34	24.16	24.17
5	35.32	23.04	0.50	51.44	0.32	24.16	
10	35.39	22.56	0.51	51.04	0.34	24.36	24.40
15	35.59	20.91	0.76	49.57	0.53	24.97	25,03
20	35.78	19.16	0.74	48.00	0.43	25.58	25.67
25	35.73	18.67	0.51	47.44	0.39	25.66	25.77
30 35	35.77	18.07	0.47	46.89	0.22	25.85	25.98
40	35.75	17.89	0.38	46.68	0.25	25.88	26.03
45	35.74 35.72	17.41	0.22 0.22	46.17	0.20	25.98	26.16
50	35.72	17.11 16.95	0.22	45.84 45.68	0.35 0.70	26.04	26.24
55	35.70	16.84	0.24	45.55 45.55	0.70	26.07	26.29
60	35.70	16.84	0.23			26.09	26.33
Station 20		10.02	0.23	45.54	0.86	26,10	26.36
		TempleCi	Cholorolanti	Cond[m@/om]	Turblanni	CiamaTilV-/- of	Density[Kg/m3]
0.6	35.00	23.85	0.83				
5	35.00	23.77	0.82	51.87	43.63	23.68	23.69
10	35.55	23.77	1.00	51.87	1.41	23.77	23.79
15				50.87	1.10	24.58	24.62
20	35.82	20.61	1,14	49.55	2.48	25.23	25.29
20	35.82	20.53	1.59	49.47	13.61	25.25	25.34

eanograhi	c data						
Station 2		·					
Depth[m]		Temp[°C]	Choloro(ppb)	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.10	23.86	0.33	52.01	7.23	23.76	23.77
5	35.13	23.76	0.40	51.95	0.48	23.82	23.84
10	35.56	22.19	0.76	50.87	0.74	24.59	24.64
15 20	35.82 35.82	20.53	0.82	49,47	0.86	25.24	25.31
Station 2		19.98	0.80	48.90	2.63	25.39	25.48
		Tomp[C]	Chalamalambl	C1[C()	m	C:mlrz / ol	Density[Kg/m3]
0.65	35.13	24.14	0.27	52.34	0.38	23.70	Density[Kg/m3] 23.70
5	35.12	23.98	0.25	52.17	0.30	23.74	23.76
10	35.27	23.25	0.50	51.60	0.42	24.07	24.11
15	35.81	19.76	0.72	48.65	0.40	25.44	25.51
20	35.80	19.44	0.75	48.32	0.30	25.52	25.61
25	35.80	19.21	0.68	48.08	0.87	25.58	25.69
30	35.79	19.14	0.68	48.00	1.96	25.59	25.72
Station 23							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.16	24.80	0.27	53.07	1.36	23.53	23.53
5	35.15	24.54	0.28	52,78	0.39	23.59	23.62
10	35.28	23.28	0.72	51.65	0.49	24.07	24.11
15	35.80	20.51	1.10	49.43	0.39	25.24	25.30
20	35.81	19.64	0.79	48.53	0.30	25.48	25.56
25	35.79	18,91	0.76	47.76	0.30	25.65	25.76
30	35.78	18.39	0.62	47.22	0.50	25.77	25.91
35	35.78	18.30	0.54	47.13	0.72	25.79	25.95
40 Station 2	35.78	18.28	0.56	47.11	1.13	25.80	25.98
Depth[m]		m [0.01]	0) 1 F 11	A 35 A	m 1 F 1		
0.55	35.08	25.01	Choloro[ppb]	CondimS/cmi	Turbippmi		Density[Kg/m3]
5	35.08	25.01 24.95	0.24 0.27	53.19 53.13	1.80	23.40	23.41
10	35.14	24.33	0.27	52.44	0.34	23.42 23.69	23.44
15	35.69	20.48	1.47	49.25	0.42	25.16	23.73
20	35.80	19.51	1.35	48.39	0.61	25.50	25.22 25.59
25	35.78	18.84	1.23	47,67	3,24	25.66	25.77
30	35.77	18.09	0.98	46.90	17.00	25.84	25.97
35	35.75	17.73	0.29	46.51	0.35	25.92	26.07
40	35.74	17.35	0.33	46.11	31.17	26.00	26.18
45	35.74	17.33	0.33	46.09	25.61	26.00	26.20
50	35.74	17.32	0.34	46.09	34.50	26.01	26.23
Station 2							
Depth[m]		Temp[°C]				SigmaT[Kg/m3]	Density[Kg/m3]
5	35.18	24.11	0.22	52.38	0.30	23.75	23.77
10	35.29	22.95	0.46	51.32	0.44	24.17	24.22
15	35.67	20.41	0.82	49.17	0.60	25.17	25.23
20	35.78	19.22	0.69	48.06	0.44	2 5.56	25.65
25	35.78	18.62	0.58	47.45	0.32	25.72	25.83
30 35	35.78 95.77	18.08	0.38	46,91	0.22	25.86	25.99
40	35.77 35.76	18.01	0.35	46,81	0.20	25.86	26.01
45		17.76	0.30	46.55	0.20	25.92	26.09
	35.72	17.58	0.28	46.32	0.21	25.93	26.13
50	35.73	17.32	0.22	46.07	0.20	26.00	26.22
55	35.70	17.07	0.21	45.79	0.20	26.04	26.28
60	35.69	16.74	0.20	45,43	0.30	26.11	26.37
65	35.67	16.49	0.17	45.16	0.32	26.14	26.43

Table 1-6-1 (9) Oceanograpic data

The	3rd	survey	(25	Jul.	-	13	Aug.	2001)

	3						
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.29	23.26	0.64	51.63	6.56	24.08	24.08
5	35,32	22.79	0.73	51.19	2.09	24.24	24.26
10	35.82	20.47	0.92	49,41	3.85	25.26	25.31
15	35.81	20.45	1.06	49.37	6.22	25.26	25.33
Station 2'							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.8	35.26	23.43	0.38	51.78	14.96	24.01	24.01
5	35.29		0.39	51.70	0.50	24.06	24.08
10	35.67	21.29	0.60	50.07	0.59	24.93	24.97
15	35.82	20.02	0.75	48.94	2.36	25.38	25.45
20	35.82	19.99	0.77	48.91	4.75	25.39	25.48
25	35.82	19.99	0.82	48.91	5.01	25.39	25.50
Station 28							
Depth[m]		Temp[°C]	Choloro[ppb]		Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.65	35.21	23.50	0.30	51.78	0.51	23.95	23.95
5	35.25	23.20	0.35	51.51	0.44	24.06	24.09
10	35.77	20.31	0.38	49.18	0.43	25.27	25.31
15	35.83	19.60	0.50	48.51	0.85	25.50	25.56
20	35.82	19.55	0.59	48.46	1.43	25.51	25.60
25	35.82	19.55	0.59	48.45	1.95	25.51	25.62
30	35.82	19.55	0.61	48.45	2.35	25.51	25.64
35	35.81	10 86	0.05	שו חז		0	
		19.55	0.67	48.45	3.47	25.50	25.65
Station 29	9						
Station 29 Depth[m]	9 Salinity	Temp[°C]	Choloro[ppb]				25.65 Density[Kg/m3]
Station 29 Depth[m] 0.7	9 Salinity 35.17	Temp[°C] 24.04	Choloro[ppb]	Cond[mS/cm] 52.29	Turb[ppm] 0.56	SigmaT[Kg/m3] 23.76	Density[Kg/m3] 23.77
Station 29 Depth[m] 0.7 5	Salinity 35.17 35.29	Temp[°C] 24.04 22.91	Choloro[ppb] 0.26 0.39	Cond[mS/cm] 52.29 51.28	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
Station 29 Depth[m] 0.7 5 10	Salinity 35.17 35.29 35.80	Temp[°C] 24.04 22.91 20.20	Choloro[ppb] 0.26 0.39 0.61	Cond[mS/cm] 52.29 51.28 49.09	Turb[ppm] 0.56	SigmaT[Kg/m3] 23.76 24.18	Density[Kg/m3] 23.77
Station 29 Depth[m] 0.7 5 10 15	Salinity 35.17 35.29 35.80 35.83	Temp[°C] 24.04 22.91 20.20 19.27	Choloro[ppb] 0.26 0.39 0.61 0.52	Cond[mS/cm]	Turb[ppm] 0.56 0.40 0.46 0.56	SigmaT[Kg/m3] 23.76 24.18	Density[Kg/m3] 23.77 24.21
Station 29 Depth[m] 0.7 5 10 15 20	Salinity 35.17 35.29 35.80 35.83 35.83	Temp[°C] 24.04 22.91 20.20 19.27 18.99	Choloro[ppb] 0.26 0.39 0.61 0.52	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86	Turb[ppm] 0.56 0.40 0.46 0.56 0.75	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65	Density[Kg/m3] 23.77 24.21 25.36
Station 29 Depth[m] 0.7 5 10 15 20 25	Salinity 35.17 35.29 35.80 35.83 35.83	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58	Cond[mS/cm]	Turb[ppm] 0.56 0.40 0.46 0.56 0.75	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58	Density[Kg/m3] 23.77 24.21 25.36 25.65
Station 29 Depth[m] 0.7 5 10 15 20 25 30	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80	Temp ⁶ Cl 24.04 22.91 20.20 19.27 18.99 18.63 18.59	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54	Cond[mS/cm]	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74
Station 29 Depth[m] 0.7 5 10 15 20 25 30 35	9 Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54 0.53	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.42	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90
Station 29 Depth[m] 0.7 5 10 15 20 25 30 35	9 Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.45	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87
Station 28 Depth[m]	9 Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54 0.53	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.42 47.39	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.81	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92
Station 28 Depth[m]	9 Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.79 0	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56 18.54 Temp[°C]	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54 0.53 0.60 Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.42 47.39	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.81	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90
Station 25 Depth[m] 0.7 5 10 15 20 25 30 35 40 Station 3 Depth[m] 0.55	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.79 0 Salinity 35.16	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56 18.54 Temp[°C] 24.20	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.42 47.39 Cond[mS/cm] 52.44	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66 1.11 Turb[ppm]	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 SigmaT[Kg/m3] 23.70	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90
Station 28 Depth	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.80 35.79 0 Salinity 35.16	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56 18.54 Temp[°C] 24.20 24.19	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.42 47.39 Cond[mS/cm] 52.44 52.43	Turb[ppm]	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.63 25.74 25.74 25.74 SigmaT[Kg/m3]	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3]
Station 28 Depth m 0.7 5 10 15 20 25 30 35 40 Station 36 Depth m 0.55 5 10	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.79 0 Salinity 35.16 35.15	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.56 18.54 Temp[°C] 24.20 24.19 23.49	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.45 47.42 47.39 Cond[mS/cm] 52.44 52.43	Turb[ppm]	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 SigmaT[Kg/m3] 23.70 23.70 23.95	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70
Station 28 Depth[m]	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.79 0 Salinity 35.16 35.15 35.21 35.46	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56 18.54 Temp[°C] 24.20 24.19 23.49 22.51	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 SigmaT[Kg/m3] 23.70 23.70 23.95 24.43	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72
Station 28 Depth[m]	Salinity 35.17 35.29 35.80 35.81 35.81 35.80 35.80 35.80 35.80 35.79 Calinity 35.16 35.15 36.46 35.81	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.56 18.54 Temp[°C] 24.20 24.19 23.49 22.51 19.75	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54 0.53 0.60 Choloro[ppb] 0.20 0.22 0.48 0.88	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.42 47.39 Cond[mS/cm] 52.44 52.43 51.76 51.08 48.65	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66 0.81 1.11 Turb[ppm] 0.60 0.38 0.50 0.49	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 SigmaT[Kg/m3] 23.70 23.95 24.43 25.45	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72 23.99
Station 28 Depth[m]	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.80 35.80 35.16 35.15 35.16 35.15 35.16 35.18	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.56 18.54 Temp[°C] 24.20 24.19 23.49 22.51 19.75 18.51	Choloro[ppb] 0.26 0.39 0.61 0.52 0.58 0.60 0.54 0.53 0.60 Choloro[ppb] 0.20 0.22 0.48 0.88 0.86 0.49	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.39 Cond[mS/cm] 52.44 52.43 51.76 51.08 48.65 47.36	Turb[ppm]	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 SigmaT[Kg/m3] 23.70 23.70 23.95 24.43 25.45	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72 23.99 24.49
Station 28 Depth[m]	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.80 35.79 Salinity 35.16 35.15 35.21 35.46 35.81 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.54 Temp[°C] 24.20 24.19 23.49 22.51 19.75 18.51	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.45 47.42 47.39 Cond[mS/cm] 52.44 52.43 51.76 51.08 48.65 47.36	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66 0.81 1.11 Turb[ppm] 0.60 0.38 0.50 0.49 0.32 0.32 0.25	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 25.74 23.70 23.70 23.95 24.43 25.45 25.76	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72 23.99 24.49 25.54
Station 28 Depth	Salinity 35.17 35.29 35.80 35.80 35.80 35.80 35.80 35.80 35.80 35.79 0 Salinity 35.16 35.15 35.21 36.46 35.81 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.56 18.54 Temp[°C] 24.20 24.19 23.49 22.51 19.75 18.51 17.95	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.48 47.45 47.42 47.39 Cond[mS/cm] 52.44 52.43 51.76 51.08 48.65 47.36 46.75	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66 0.81 1.11 Turb[ppm] 0.60 0.38 0.50 0.49 0.32 0.25 0.30 0.59	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 25.74 25.74 25.76 23.70 23.96 24.43 25.45 25.76 25.87	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.84 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72 23.99 24.49 25.54 25.87
Station 28 Depth[m]	Salinity 35.17 35.29 35.80 35.83 35.81 35.80 35.80 35.80 35.80 35.79 Salinity 35.16 35.15 35.21 35.46 35.81 35.80 35.80	Temp[°C] 24.04 22.91 20.20 19.27 18.99 18.63 18.59 18.54 Temp[°C] 24.20 24.19 23.49 22.51 19.75 18.51	Choloro[ppb]	Cond[mS/cm] 52.29 51.28 49.09 48.17 47.86 47.45 47.42 47.39 Cond[mS/cm] 52.44 52.43 51.76 51.08 48.65 47.36	Turb[ppm] 0.56 0.40 0.46 0.56 0.75 0.60 0.66 0.81 1.11 Turb[ppm] 0.60 0.38 0.50 0.49 0.32 0.32 0.25	SigmaT[Kg/m3] 23.76 24.18 25.32 25.58 25.65 25.73 25.74 25.74 25.74 25.74 23.70 23.70 23.95 24.43 25.45 25.76	Density[Kg/m3] 23.77 24.21 25.36 25.65 25.74 25.87 25.90 25.92 Density[Kg/m3] 23.70 23.72 23.99 24.49 25.54 25.87 26.00

Station 3	l						
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turbloom	SigmaT[Kg/m3]	Density Kg/m3
0.75	35.17	23.94	0.22	52.17	0.28	23.78	23.79
5	35.17	23.94	0.23	52.18	0.25	23.79	23.81
10	35.14	23.83	0.26	52.04	0.23	23.80	23.84
15	35.34	22.00	0.45	50.40	0.30	24.48	24.54
20	35.76	19.72	0.56	48.55	0.45	25.41	25.50
25	35.76	18.45	0.57	47.25	0.31	25.74	25.88
30	35.78	18.08	0.40	46.90	0.21	25.85	25.98
35	35.74	17.63	0.23	46.40	0.20	25.93	26.09
40	35.72	17.25	0.22	45.99	0.20	26.00	26.18
45	35.71	17.10	0.21	45.83	0.20	26.04	26.24
50	35.69	16.94	0.19	45.64	0.20	26.06	26.28
55	35.66	16.46	0.16	45.13	0.26	26.15	26.39
60	35.66	16.41	0.16	45.09	0.29	26.16	26.43
Station 3							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density Kg/m3
0.6	35.73	21.77	0.75	50.64	3.84	24.84	24.84
5	35.73	21.57	0.86	50.43	3.00	24.89	24.92
10	35.80	20.76	0.92	49.68	2.62	25.17	25.2
15	35.81	19.60	0.76	48.49	3.86	25.49	25.55
20	35.82	19.53	0.94	48.42	13.95	25.51	25.60
Station 3							
Depth[m]	Salinity	Temp[°C]	Choloro[pph]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3
0.55	35.65	22,20	0.59	50.98	20.14	24.65	24.68
5	35.56	21.84	0.65	50.51	0.75	24.69	24.71
10	35.82	20.01	0.71	48.92	0.50	25.39	25.43
15	35.81	19.49	0.57	48.38	0.37	25.51	25.58
20	35.81	19.15	1.07	48.03	0.69	25.60	25.69
25	35.80	18.95	0.58	47.81	0.38	25.65	25.76
30	35.79	18.80	0.57	47.65	0.39	25.68	25.81
35	35.79	18.54	0.41	47.39	0.95	25.75	25.90
40	35.78	18.30	0.37	47.13	2.16	25.80	25.97
Station 3							

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	34.77	23.21	0.54	50.90	22.36	23.70	23.70
5	34.78	23.09	0.58	50.80	0.64	23.74	23.77
10	35.24	22.22	0.74	50.49	0.79	24.34	24.38
15	35.79	20.32	0.41	49.22	0.38	25.28	25.35
20	35.80	19.53	0.46	48.41	0.33	25.50	
25	35.79	19.16	0.41	48.01	0.27	25.58	
30	35.77	18.90	0.33	47.73	0.22	25.64	25.77
35	35.76	18.18	0.31	46.98	0.25	25.81	25.96
40	35.76	18.09	0.32	46.90	0.24	25.83	26.01
45	35.76	18.01	0.38	46.82	0.23	25.85	26.05
50	35.74	17.57	0.32	46.34	0.36	25.95	
Station 3	5			-			

Diamon o							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density Kg/m3
0.7	33.48	23.87	1.28	49.88	3.21		
5	34.09			50.81	2.63	22.96	
10	35.16				1.97	24.33	24.38
15	35.76			10.10	4.75	25.18	25.25
20	35.78	19.81	0.79	48.68	8.63	25,41	25.50

Table 1-6-1 (10) Oceanographic data

The 3rd	survøy	(25	Jul.	-	13	Aug.	200	I)
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Station 36					_		
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.06	22.51	0.57	50.55	0.60	24.12	24.12
5	35.10	22.39	0.59	50.49	0.70	24.19	24.21
10	35.20	22.16	0.58	50.39	0.93	24.32	24.37
15	35.50	21.11	0.59	49.68	2.05	24.85	24.91
20	35.75	19.99	0.56	48.83	3.16	25.34	25.43
25	35.80	19.16	0.51	48.03	1.62	25.59	25.71
30	35.79	18.71	0.40	47.56	0.63	25.69	25.83
35	35.79	18.76	0.41	47.61	0.57	25.69	25.84
Station 37							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turblppml	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.14	22.46	0.68	50.61	1.05	24.19	24.20
5	35.16	22.38	0.60	50.56	0.56	24.24	24.26
10	35.41	21.49	0.63	49.95	0.70	24.67	24.71
15	35.80	19.89	0.63	48.78	1.11	25.40	25.47
20	35.81	19.65	0.61	48.54	1.16	25.48	25.56
25	35.79	19.50	0.54	48.37	1.03	25.50	25.61
30	35.80	19.00	0.43	47.87	0.44	25.63	25.77
35	35.79	18.68	0.35	47.53	0.30	25.71	25.86
40	35.77	18.00	0.28	46.81	0.29	25.86	26.04
45	35.76	17.79	0.27	46.59	0.67	25.91	26.11
50	35.75	17.73	0.30	46.52	1.11	25.92	26.14
55	35.74	17.71	0.30	46.49	1.92	25.91	26.16
Station 38							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
5	34.16	22.82	1.21	49.70	1.37	23.35	23.37
10	35.78	20.70	0.66	49.59	2.15	25.17	25.22
15	35.78	20.48	0.55	49.37	1.96	25.23	25.30
20	35.79	19.90	0.52	48.78	1.32	25.39	25.48
Station 39							
Depth[m]	Salinity.	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
. 5	33.87	23.13	0.97	49.65	0.83	23.05	23.07
10	35.44	21,16	0.58	49.65	0.58	24.79	24.83
15	<u>35.78</u>	19.88	0.48	48.74	0.35	25.39	25.45
20	35.78	19.77	0.53	48.64	0.40	25.42	25.51
25	35.81	19.31	0.49	48.19	0.33	25.56	25.67
30	35.80	18.54	0.35	47.40	1.31	25.75	25.88
35	35.79	18.52	0.38	47.37	2.92	25.75	25.90
40	35.79	18.51	0.38	47.35	3.07	25.76	25.93
Station 40				 			
Depth[m]	Salinity						Density[Kg/m3]
0.55	34.52	23.38	0.65	50.75	0.60	23.46	23.46
5	34.51	23.20	0.64	50.56	0.40	23.50	23.53
10	35.47	20.11	0.57	48.61	0.42	25.10	25.14
15	35.81	19.16	0.58	48.03	0.38	25.60	25.66
20	35.80	19.09	1.23	47.96	0.46	25.62	25.70
25	35.80	18.97	0.69	47.84	0.36	25.65	25.76
30	35.79	18.84	0.59	47.69	0.34	25.67	25.80
35	35.78	18.71	0.62	47.55	0.32	25.69	25.85
40	35.77	18.20	0.44	47.02	0.30	25.81	25.99
45	35.76	18.10	0.39	46.90	0,25	25.83	26.03
50	35.77	18.00	0.35	46.82	0.50	25.86	26.08
l 55 l	35.77	17.97	0.33	46.79	0.66	25.87	26.11

Station 41

		_					
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.95	35.10	22.02	0.33		1.65		
5	35.17	21.88	0.43	50.06	1.49	24.38	24.41
10	35.60	21.51	0.58	50.22	0.59	24.82	24.86
15	35.80	20.20	0.80	49.10	0.44	25.32	25.39
20	35.81	19.83	0.76	48.74	0.34	25.43	25.52
25	35.81	19.20	0.51	48.08	0.25	25.59	25.70
30	35.77	18.56	0.44	47.37	0.26	25.72	25.85
35	35.80	18.24	0.39	47.09	0.20	25.82	25.98
40	35.73	17.96	0.33	46.73	0.29	25.84	26.02
45	35.75	17.66	0.30	46.44	0.50	25.94	26.14
50	35.73	17.31	0.28	46.07	1.04	_ 26.00	26.22
55	35.69	17.01	0.23	45.72	0.40	26.05	26.29
_60	35.62	16.14	0.18	44.76	0.70	26.19	26.46
65	35.63	15.98	0.15	44.61	0.30	26.24	26.53
70	35.62	15.87	0.15	44.50	0.54	26.26	26.57
75	35.57	15.65	0.16	44.22	0.68	26.26	26.60
Station 4							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.75	35.78	21.95	0.38	50.90	0.60	24.83	24.83
5	35.77	21.73	0.52	50.66	0.60	24.88	24.90
10	35.77	21.68	1.07	50.59	0.70	24.90	24.94
15	35.78		0.71	50.42	0.60	24.95	25.02
20	35.70	20.98	1.36	49.79	0.66	25.03	25.12
25	35.82	19.73	1.66	48.65	0.52	25.46	25.57
30	35.82	19.62	0.73	48.53	0.38	25.49	25.62
<u>3</u> 5	35.81	19.31	0.78	48.21	0.42	25.56	25.72
40	35.79	19.16	0.92	48.03	0.32	25.59	25.76
45	35.79	18.92	0.50	47.78	0.30	25.64	25.84
50	35.79	18.71	0.68	47.57	0.30	25.70	25.92
55	35.78	18.45	0.44	47.29	0.35	25.75	26.00
60	35.78	18.18	0.39	47.02	0.58	25.83	26.09
65	35.76	17.79	0.28	46.60	0.68	25.91	26.20
Station 4	35.73	17.30	0.28	46.07	0.86	26.00	26.31

Station 43

DUMBUUT 1							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.79	21.69	0.43				24.91
. 5	35.76	21.53	0.66	50.43	0.70	24.93	24.95
10	35.77	21.04	2.07	49.94	1.27	25.07	25.12
_15	35.77	20.23	1.08	49.09	0.70	25.29	25.36
20	35.82	19.15	0.77	48.04	0.52	25.61	25.70
25	35.80	18.76	0.49	47.62	0.46	25.69	25.80
_30	35.80	18.65	0.47	47.52	0.44	25.72	25.86
35	35.79	18.32	0.41	47.16	0.41	25.80	25.95
40	35.79	18.27	0.39	47.11	0.41	25.81	25.98
45	35.78	18.15	0.42	46.97	0.55	25.83	26.03
50	35.73	17.66	0.62	46.42	1.66	25.91	26.13
55	35.70	_16.99	0.33	45.72	1.01	26.06	26.30
_60	35.70	16.74	0.29	45.45	0.68	26.12	26.38
65	35.62	16.21	0.24	44.84	0.53	26.18	26.47
70	35.62	15.87	0.21	44.48	0.60	26.25	26.56
75	35.56	15.44	0.21	44.00	0.68		26.63

Table 1-6-1 (11) Oceanographic data

The 3rd survey (25 Jul. - 13 Aug. 2001)

Station 44							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.44	23.33	0.27	51.91	0.31	24.18	24.18
5	35.41	23.12	0.30		0.30	24.22	24.24
10	35.47	22.23	0.43	50.79	0.30	24.51	24.55
15	35.79	19.89	0.33	48.77	0.20	25.40	25.46
20	35.81	19.28	0.35	48.17	0.20	25.57	25.66
25	35.82	19.05	0.37	47.94	0.20	25.64	25.75
30	35.78	18.36	0.28	47.19	0.20	25.78	25.92
35	35.75	18.03	0.29	46.82	0.21	25.85	26.00
40	35.74	17.54	0.29	46.31	0.20	25.96	26.13
45	35.73	17.37	0.28		0.20	25.99	26.19
50	35.73	17.20	0.27	45.95	0.20	26.03	26.25
55	35.72	17.05	0.22	45.80	0.20	26.06	26.30
60	35.71	16.81	0.21	45.53	0.21	26.11	26.37
Station 4					_		
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.31	23.15	0.39	51.55	4.40	24.13	24.13
5	35.31	23.12	0.38	51.51	0.30	24.14	24.16
10	35.38	22.53	0.49	50.99	0.31	24.36	24.40
15	35.77	19.47	0.65	48.31	0.44	25.49	25.56
20	35.79	18.49	0.49	47.33	0.29	25,75	25.84
25	35.78	18,21	0.42	47.03	0,24	25.82	25.93
30	35.79	18.09	0.43	46.93	0.25	25.86	25.99
35	35.78	17.96	0.37	46.78	0.24	25.88	26.03
40	35.75	17.71	0.43		0.20	25.92	26.10
45	35.74	17.42	0.39		0.20	25.99	26.19
50	35.72	17.02	0.22		0.25	26.06	26.28
55	35.71	16.93	0.22	45.66	0.29	26.08	26.32
Station 46	3						20.02
Depth[m]	Salinity	Temp[°C]	Cholorolopb	CondlmS/cml	Turblepml	SigmaT[Kg/m3]	Density[Kg/m3]
0.55	35.17	24.33	0.20	52.59	0.28	23.68	23.68
5	35.16	24.19	0.25		0.26	23.71	23.73
10	35.23	23.27	0.45		0.30	24.03	24.08
15	35.58	20.98	0.52		0.51	24.94	25.00
20	35.77	19.46	0.67	***	0.52	25.49	25.58
25	35.76	18.58	0.55		0.30	25.71	25.82
30	35.77	18.33	0.55	47.14	0.29	25.78	25.91
35	35.77	17.98	0.33		0.20	25.87	26.02
40	35.76	17.74	0.29		0.20	25.92	26.09
45	35.73	17.31	0.23		0.20	26.00	26.20
50	35.71	16.97	0.20		0.20	26.07	26.29
55	35.71	16.87	0.19		0.20	26.09	26.33
60	35.71	16.76	0.18		0.20	26.12	26.38
65	35.69	16.64	0.18		0.23	26.13	26.42
70	35.68	16.56			0.20	26.14	26.42
75	35.64	16.29	0.17		0.22	26.14	26.40
80	35.65	16.11	0.14		0.22	26.22	
	20.00	10.11	0.14	476,775		20.22	26.58

Sta	tion	47

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.65	35.21	24,13	0.17				
5	35.21		0.18	52.41	0.25	23.76	
10	35.22	23.44	0.28	51.74	0.25	23.98	24.02
15	35.49	21.70	0.51	50.27	0.45	24.67	24.74
20	35.80	19.46	0.66	48.34	0.48	25.51	25.60
25	35.79		0.56	47.29	0.30	25.76	25.87
30	35.78		0.49	46.89	0.25	25.86	25.99
35	35.73		0.30	46.47	0.20	25.91	26.06
40	35.72		0.21	45.96	0.20	26.01	26.19
45	35.70		0.20	45.62	0.20	26.07	26.27
50	35.69		0.15	45.29	0.20	26.14	26.36
55	35.67		0.16	45.05	0.20	26.17	26.42
60	35.63		0.14	44.74	0.20	26.21	26.47
65	35.62	15.95	0.13	44.58	0.30	26.24	26.53
70	35.61	15.94	0.13	44.56	0.30	26.23	26.55
75	35.62		0.14	44.56	0.32	26.24	26.58
80	35.62	15.92	0.15	44.56	0.35	26.24	
Station 4	8						

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3
0.55	34.95	23.57	0.41		0.59		23.7
5	35.04	23.16	0.50	51.21	0.50	23.92	23.9
10	35.52	22.01	0.63	50.62	0.50	24.61	24.60
15	35.81	19.88	0.68	48.78	0.41	25.41	25.48
20	35.79	19.62	0.67	48.49	0.31	25.46	25.5
25	35.80	19.19	0.57	48.07	0.32	25.59	25.70
30	35.78	18.43	0.43	47.26	0.28	25.77	25.90
35	35.77	27.00	0.37	46.79	0.24	25.87	26.02
40	35.74	17.60	0.27	46.37	0.20	25.94	26.12
45 Station 49	35.74	17.56	0.28	46.32	0.22	25.95	26.15

DOMESTICAL 4	Depth[m] Salinity Temp[°C] Choloro[ppb] Cond[mS/cm] Turb[ppm] SigmaT[Kg/m3] Density[Kg/m3]										
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]				
0.85	35.06	22.93	0.54	50.99							
5	35.06	22.91	0.61	50.97	0.48	24.00					
10	35.16	22.56	0.59	50.75	0.50	24.18					
15	35.41	21.61	0.54	50.08	0.45	24.64	24.70				
20	35.82	19.73	0.44	48.63	0.30	25.46					
25	35.81	19.67	0.42	48.57	0.45	25.46					
30	35.80	19.14	0.36	48.02	0.34	25.60	25.73				
35	35.78	18.56	0.33	47.40	0.48	25.73					
40	35.77	18.08	0.30	46.89	0.26	25.84					
45	35.74	17.60	0.24	46.36	0.20	25.94					

Table 1-6-1 (12) Oceanographic data

The 3rd survey (25 Jul. - 13 Aug. 2001) Station 50

Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
. 5	34.75				0.30		23.62
10	35.10	22.46	0.53	50.56	0.31	24.16	24.21
15	35.83	19.58	0.65	48.49	0.45	25.50	25.57
20	35.81	19.21	0.60	48.10	0.36	25.59	25.68
25	35.78	19.03	0.49	47.88	0.30	25.61	25.72
30	35.80	18.56	0.46	47.42	0.35	25.75	25.88
35	35.78	18.30	0.43	47.13	0.30	25.80	25.95
40	35.78	18.20	0.38	47.03	0,30	25.82	26.00
45	35.76	17.88	0.39	46.68	0.24	25.89	26.08
50	35.75	17,82	0.37	46.62	0.23	25.89	26.12
55	35.74	17.67	0.36	46.44	0.23	25.91	26.16
60	35.74	17.51	0.35	46.29	0.20	25.95	26.22
65	35.70	17.33	0.30	46.06	0.20	25.97	26.26
70	35.71	17.04	0.25	45.79	0.30	26.05	26.36
75	35.70	16.96	0.22	45.70	0.45	26.06	26.39
80	35.70	16.93	0.27	45.66	0.60	26.07	26.42

The 4th survey (29 Oct. - 16 Nov. 2001) Station 1

Station 1							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	32.69	28.13	0.35	53.04	8.59	20,62	20.62
	34.63	28.25	0.17	55.96	1.38		
10	34.90	26.90					
15	34.93	26.56					22.87
Station 2							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	33.28	27.67	0.61	53,42			21.22
5	34.71	26.75	0.15				22.61
10	34.86						22.87
15	34.89	26.31	0.16				
20	34.96						
Station 3						·	
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	31.44	27.76	0.69	50.87		19.80	19.81
_ 5	34.33						
10	35.09						22.82
15	35.06						
20	35.08						23.00
25	35.08				0.30		23.03
30	35.09						23.07
35	35.05				0.33		23.10
40	35.05						
45	35.06				0.34	-	23.14
50	35.07						23.22
Station 4	0010.	20,20	0.00	04.00	0.10	20.04	23.26
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turbloom	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	34.99	28.23	0.17	56.45	6.92	22.32	22.32
5	35.02		0.12			22.34	22.36
10	35.02		0.12				
15	35.05		0.15		0.56		
20	35.06						
Station 5		·			-15-	22	44.01
Depth[m]	Salinity	Temp[°C]	Choloro ppb	CondImS/cml	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.01	27.87	0.12	56.10	18.70	22.45	22.45
5	35.03	27.87	0.00	56.13	0.30		22.45 22.49
10	35.04	27.87	0.00		0.30	22.47	22.49
15	35.04	27.75	0.00	56.02	0.23	22.51	22.51
20	35.03	27.35	0.06	55,58	0.23	22.63	22,57
25	35.07	26.63	0.30				
Station 6				<u> </u>	0	24.00	23.00
	Salinity	Temp[°C]	Chalaralaph	CondimS/cm]	Turblnoml	CiamaT[Ka/m3]	Density[Kg/m3]
0.6	35.02	27.95	0.69	56.19	108.22	22.43	
5.0	35.04	27.91	0.03	56.18	0.33	22.43	22.43
10	35.04	27.89	0.01	56.18	0.33		22.48
15	35.03	27.85	0.01		_	22.46	22.50
20	35.04	27.58	0.01	56.11	0.27	22.47	22.54
25	35.05	27.11		55.84	0.23	22.56	22.65
30	35.12	26.64	0.06	55.37	0.30	22,73	22.83
35			0.08	54.96	0.20	22.93	23.06
	35.15	26.33	0.15	54.69	0.24	23.04	23.20
40	35.18	26.18	0.25	54.57	0.29	23.12	23.29
45	35.18	26.10	0.50	54.49	0.48	23.14	23.34

Table 1-6-1 (13) Oceanographic data

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22.88 23.12

35.17

35.17

27.03

26.94

The 4th su	rvev (29	Oct - 16	Nov. 2001)			Т	able 1-6-1 (1
Station 7					_		
Depthim	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.15	27.58	0.69	55.98	4.11	22.65	22.6
5	35.16	27.58	0.56	56.00	1.39		22.68
10	35.18	27.35	0.27	55.78	1.00		22.79
15 Station 8	35.17	26.93	0.36	55.34	1.11	22.87	22.9
	Calinita	Town [9C]	Chalanalanhi	C1[C/1	70) []	O mirr (al	D : 500 t = 2
0.6	35.12	27.38	0.31			SigmaT[Kg/m3]	
5	35.16	27.39	0.16	55,74	25.59	22.69	22.69
10	35.16	27.38	0.16	55.80	0.60	22.72	22.74
15	35.16	27.37	0.15	55.80 55.78	0.60 0.60	22.72	22.70
20	35.15	27.03	0.14	·		22.72	22,70
25	35.16	26.44	0.14	55.42	0.50		22.9
30	35.17	26.36	0.11	54.81 54.74	0.34 0.43	23.02 23.05	23.13 23.18
Station 9	20111	20.00	<u> </u>	01.11	0.43	20.00	23.10
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3
0.6	35.11	27.50	0.06	5 5.8 5	1.71	22.65	22.6
5	35.12	27.49	0.03	55.85	0.30		22.68
10	35.13	27.45	0.05	55.83	0,30		22.72
15	35.12	27.40	0.05	55.76	0.30	22.68	22.78
20	35.13	27.17	0.08	55.54	0.30	22.77	22.86
25	35.16	26.85	0.09	55.23	0.30		22.99
30	35.18	26.51	0.12	54.92	0.26		23.14
35	35.16	26.09	0.22	54.44	0.25	23.13	23.28
40	35.18	25.99	0.27	54.37	0.24	23.18	23.35
45	35.20	25.94	0.31	54.34	0.29	23.21	23.40
50	35.25	25.85	0.36	54.31	0.74	23.27	23.49
Station 10							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3
0.6	34.49	28.22	0.49	55.72	2.88	21.94	21.98
5	34.89	28.27	0.16	56.36	1.58	22.23	22.2
10	34.90	28.27	0.16	56.37	1.61	22.24	22.28
15	34.90	28.27	0.17	56.38	1.57	22.23	22.30
Station 11		m [0.01	(a) 1 () 1	Ta 1 a 3			·
Depthimi	Salinity	Temp[°C]	Cholorolppb			SigmaT[Kg/m3]	
0.6	34.89	28.22	0.38	56.30	9.63	22.24	22.25
5	34.91	28.23	0.04	56.32	0.33	22.25	22.27
10	34.91	28.23	0.04	56.33	0.32	22.25	22.30
15	34.90	28.23	0.03	56.33	0.30	22.25	22.32
20	35.10	27.50	0.17	55.83	0.44	22.63	22.72
25 Station 12	35.17	27.07	0.19	55.49	0.45	22.83	22.98
		m foot	01 1 1 1	a 11 a 1	55 · / I	Fr	
Deptn[m]	Salmity	Temp[*C]	Cholorolpph	CondimS/cml		SigmaT[Kg/m3]	
0.6	34.89	28.15	0.03	56.22	1.40		22.27
5	34.89	28.15	0.01	56.22	0.25	22.26	22.29
10 15	34.89	28.15	0.03	56.22	0.25	22.26	22.31
	34.89	28.15	0.02	56.22	0.29	22.26	22.33
20	34.90	28.13	0.04	56.22	0.35	22,28	22.37
25	35.13	27.42	0.05	55.80	0.26	22.68	22.79
30	35.13	27.23	0.07	55.60	0.27	22.74	22.88
35	35.16	26.59	0.16	54.98	0.26	22.97	23.12

Depth[m]	Salinity	Tempf°Cl	Cholorolpphl	Cond[mS/cm]	Turblooml	SigmaT[Ka/mol	Density[Kg/m3]
0.6	35.13	27.99	0.15	56.40	35.61	22.49	
5	35.17	28.00				22.52	
10	35.17	28.00				22.52	22.56
15	35.16					22.58	22.64
20	35.25	26.77			0.28	22.98	23.07
25	35.25	26.45	0.09	54.93		23.08	23.19
30	35.23	26.32	0.11			23.11	23.24
35	35,27	26.14	0.25			23.19	23.35
40	35.28	25.93	0.36			23.27	23.45
station 14							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turblooml	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.00	28.26	0.25	56.51	2.88	22.31	22.31
5	35.00	28.28		56.53	2.87	22.31	22.33
10	35.00	28.28	0.26	56.53	2.89	22.31	22.35
15	35.01	28.28		56.54	3.89	22.31	22.38
20	35.01	28.28	0.31	56.54	3.40	22.31	22.40
station 16							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density Kg/m3
0.6	34.97	28.22	0.16	56.42	4.66	22.31	22.31
5	34.98			56.44	1.16	22.31	22.33
10	34.99	28.23		56.45	1.23	22.32	22.36
15	34.99			56.45	1.28	22.31	22.38
20	34.99	28.23	0.17	56.45	1.48	22.31	22.40
Station 16							
Depth[m]	Salinity	Temp[°C]	Choloro(ppb)	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density Kg/m3
0.6	34.91	28.08	0.90	56.17	39.80	22.30	22.30
5	34.99			56.31	0.28	22.36	22.38
10	34.99	28.08			0.25	22.36	22.41
15	35.00	27.93	0.03		0.28	22.42	22.49
20	35.12	27.40	0.10	55.76	0.31	22.68	22.77
25	35.12	27.41	0.16		0.45	22.68	22.79
30	35.14	27.41	0.22	55.80	0.57	22.69	22.82
Station 17							
Depthim	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density Kg/m3
0.6	35.03	28.07	2.22	56.34	33.12	22.40	22.40
5	35.04	28.03	-0.03	56.32	0.31	22.42	22.44
10	35.05	27.96	0.00		0.28	22.45	22.49
15	35.05	27.95	0.00	56.24	0.27	22.45	22.51
20	35.06		0.01	56.12	0.25	22.50	22.59
25	35.17	27.40	0.03	55.83	0.25	22.72	22.83
30	35.17	27,12	0.09	55.54	0.30	22.81	22.94
35	35.17	27.03	0.13	55.44	0.33	00.04	

0.13

0.22

55.44

55.36

0.33

22.99

23.04

22.84

Table 1-6-1 (14) Oceanographic data

The 4th su Station 18		Oct 16	Nov. 2001)				
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.04	28.14		56.42	0.32	22.38	22.38
5	35.04		-0.02	56.40	0.38	22.40	22,42
10	35.05	27.90				22.46	22.50
15	35.04	27.78		56.05	0.25	22.50	22.57
20	35.10	27.30			0.25	22.70	22.79
25	35.15	27.20	0.05	55.59	0.25	22.77	22.88
30	35.18	27.13	0.05	55.57	0.23	22.82	22,95
35	35.20	26.94	0.09	55.39	0.25	22.89	23.04
40	35.13	26.50	0.12	54.83	0.28	22.97	23.15
45	35.16	26.33	0.17	54.71	0.30	23.05	23.25
50	35.21				0.56	23.13	23.35
Station 1			5.10	02.00	0.00	20.10	20.00
Denth[m]	Salinity	Temp[°C]	Choloroloph	Cond[mS/cm]	Turbloom	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.17	28.24	0.29	56.71	125.01	22.44	22.45
5	35.19		·0.01	56.64	0.31	22.49	
10	35.17	27.95		56,42	0.28		22.58
15	35.17	27.91			0.29	22.55	22.61
20	35.15	27.80			0.28	22.57	22.66
25	35.11	27.58			0.25	22.62	22.73
30	35.07	26.56		54.80	0.23	22.92	23.04
35	35.18	26.21	0.14	54.59	0.18	23.10	23.26
40	35.27	25.94	0.14	54.43	0.18	23.26	23.43
45	35.29	25.66	0.13	54.16	0.22	23.36	23.43
50	35.33	25.21	0.49		0.31		
55	35.43	24.73	0.49	53.38	0.24	23.53	23.75
60	35.43	24.73	0.54	52.74	0.27	23.74	23.98
65	35.47	23,44	0.47			23.94	24.20
70	35.61	21.87	0.45		0.35	24.16	
Station 20		21.07	0.39	50.63	0.59	24.72	25.03
		m [901	Ch. 1 [G 1 G/ 1	m 161	O: mirz (al	Density[Kg/m3]
0.6	35.10	27.72	0.23				
5					15.58	22.56	22.56
10	35.10	27.71	0.19		0.65	22.57	22.59
15	35.17 35.36	27.72	0.22	56.18	0.68	22.62	22.66
Station 2		27.45	0.41	56.16	0.67	22.85	22.91
		m (POI	Ck-l[1]	a 1 a 1	FS 14 3	C: mitt : all	75 1 177 (a)
	34.98					SigmaT[Kg/m3]	
0.6 5	35.05	27.70 27.69	0.15	55.88	23.35	22.48	22.48
10	35.34	27.50	0.12	55.97 56.18	0.46	22.54	22.56
15						22.82	22.86
20	35.35	27.49	0.16	56.18	0.47	22.83	22.89
Station 20	35.36	27.46	0.27	56.17	0.57	22.84	22.93
		m Mali	(I) 1 (1.7	0 1 0 1	6 1 1	mire . 3	
Tehru(m)	Dannity	rempt CI					Density[Kg/m3]
0.6 5	35.17 35.26	27.99 27.62	8.49 0.03	56.44	48.87	22.52	22.53
10				56.20	0.31	22.71	22.74
	35.27	27.60	0.04	56.19	0.29	22.73	22,78
15	35.30	27.57	0.08	56.18	0.38	22.76	22.83
20	35.34	27.49	0.05	56.17	0.28	22.82	22.91
25	35.39	27.50	0.07	56.25	0.28	22.85	22.96
30	35,39	27.43	0.05	56,18	0.30	22.88	23.01

Station 2		r					
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]			SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.22	27.86	0.52	56.38	7.64	22.61	22.61
	35.22	27.54	0.00	56.05	0.26	22,72	22.74
10	35.21	27.41	0.00	55.90	0.29	22.75	22.79
15	35.21	27.38	0.00	55.87	0.29	22.76	22.82
20	35.21	27.37	0.03	55.85	0.30	22.76	22.85
25	35.24	27.35	0.04	55.88	0.30	22.78	22.89
30	35.30		0.09	56.02	0.29	22.82	22.95
35	35.38		0.27	55.97	0.44	22.93	23.08
40	35.40	27,14	0.38	55.89	0.50	22.98	23.15
Station 2				· · · · · · · · · · · · · · · · · · ·			
Depthlm	Salinity	Templ C	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]		Density[Kg/m3]
0.6	35.33	27.37	0.06	56.02	0.38	22.85	22.86
5	35.33		0.05	56.02	0.27	22.85	22.88
10	35.33		0.06	56.02	0.24	22.85	22.90
15	35.33		0.07	56.03	0.25	22.85	22.92
20	35.34		0.05	56.04	0.25	22.86	22.94
25	35.35	27.36	0.07	56.04	0.22	22.87	22.97
30	35.34	27.28	0.08	55.95	0.26	22.88	23.01
35	35.39		0.25	55.55	0.30	23.06	23.21
40	35.39	26.65	0.33	55.37	0.36	23.13	23.30
45	35.39	26.60	0.37	55.30	0.34	23.14	23.34
50	35.40	26.54	0.37	55.25	0.45	23.17	23.38
Station 2							
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]
0.6	35.23	27.44	0.03	55.96	0.45	22.75	22.75
5	35.23	27.39	0.02	55.90	0.30	22.77	22.79
10	35.25	27.38	0.04	55.91	0.28	22.78	
15	35.27	27.37	0.05	55.94	0.28	22.81	22.87
20	35.30	27.32	0.05	55.93	0.26	22.84	22.93
25	35.31	27.20	0.09	55.82	0.28	22.89	
30	35.32	27.11	0.11	55.74	0.30	22.93	23.06
35	35.33	27.06	0.16	55.71	0.30	22.95	23.10
40	35.36	26.87	0.29	55.65	0.30	23.04	23.21
45	35.40	26.85	0.32	55.57	0.30	23.07	23.26
50	35.40	26.54	0.45	55.26	0.30	23.17	23.38
55	35.39	26.01	0.55	54.68	0.37	23.32	23.56
60	35.41	25.54	0.48	54.21	0.42	23.49	23.75
65	35.67	21.26	0.44	50.07	0.55	24.93	25.22
Station 2	5						20.22
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond mS/cml	Turbloom	SigmaT[Ke/m3]	Density[Kg/m3]
0.6	34.82	27.94	0.23	55.90	1.34	22.28	22.29
5	34.83	27.93	0.22	55.89	0.51	22.29	22.31
10	35.32	27.60	0.53	56.25	1.80	22.77	22.81
15	35.36	27.48	0.41	56.18	1.19	22.84	22.90
Station 2'				00,10	1.10	24.04	22.90
Depth[m]		Temp[°C]	Chalaraland	CondimSicmi	Turblened	SigmaT[Kalm 9]	Density[Kg/m3]
0.6	34.71	27.87	1.21	55.67	61.07	22.22	
5	35.17	27.86	0.05	56.31			22.22
10	35.36	27.54	0.06	56.24	0.32	22,57	22,59
15	35.38	27.46	0.05		0.29	22.81	22.86
20	35.38	27.38		56.19	0.24	22.86	22.92
<u> ۵</u> 0	30.30	41.00	0.21	56.11	0.32	22.89	22.97

Table 1-6-1 (15) Oceanograhic data

The 4th	survey	(29	Oct.	- 16	Nov.	2001)
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Station 28										
Depth[m]	Salinity	Temp[°C]	Choloro[pph]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]			
0.6	35.38	27.81	0.10	56.57	5.60	22.74	22.75			
5	35.38	27.79	0.01	56.55	0.30	22.75	22,77			
10	35,38	27.75	0.01	56.50	0.29	22.77	22.81			
15	35.38	27.74	0.02	56.49	0.26	22.77	22.83			
20	35.36	27.55	0.03	56.27	0.27	22.81	22.90			
25	35.39	27.37	0.13	56.10	0.30	22.89				
30	35.40	27.29	0.33	56.04	0.50	22.93	23.06			
Station 29										
Depth(m)		Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]			
0.6	35.24	27.73	0.04	56.28	1.09	22.67	22.67			
5	35.24	27.48	-0.01	56.01	0.25	22.75	22.77			
10	35,24	27.42	0.00	55.95	0.27	22.77	22.81			
15	35.25	27.41	0.00	55.96	0.30	22.78	22.84			
20	35.28	27.43	0.00	56.02	0.28	22.79	22.88			
25	35.37	27.50	0.04	56.23	0.30	22.84	22.94			
30	35.38	27.47	0.06	56.21	0.31	22.86	22.99			
35	35.39	27.42	0.12	56.17	0.34	22.88	23.03			
40	35.40	27.41	0.16	56.17	0.44	22.89	23.06			
Station 3										
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]			
0.6	35.23	27.95	0.00	56.48	4,00	22.58	22.59			
5	35.22	27.56	0.00	56.08	0.30	22.71	22.73			
10	35.22	27.52	0.00	56.03	0.30	22.72	22.76			
15	35.23	27.49	0.00	56.00	0.29	22.73	22.80			
20	35.23	27.43	0.03	55.96	0.30	22.76	22.84			
25	35.23	27.31	0.05	55.81	0.30	22.79	22.90			
30	35.25	27.25	0.07	55.78	0.30	22.82	22.96			
35	35.35	27.31	0.16	55.99	0.39	22.89	23.04			
40	35.36	27.30	0.21	56.00	0.44	22.90	23.07			
45	35.37	27.30	0.23	56.00	0.41	22.90	23.10			
50	35.37	27.29	0.26	56.01	0.50	22.90	23.12			
Station 3					-					
Depth[m]	Salinity	Temp[°C]	Cholorolppbl	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]			
0.6	35.21	27.88	0.02	56.39	30.38	22.59	22.60			
5	35.21	27.86	-0.01	56.37	0.28	22.60	22.62			
10	35.23	27.54	0.01	56.07	0.27	22.72	22.76			
15	35.25	27.50	0.01	56.05	0.30	22.75	22.81			
20	35.26	27,43	0.05	56.00	0.27	22.78	22.87			
25	35.33	27.25	0.08	55.91	0.28	22.89	23.00			
30	35.35	27.22	0.13	55.90	0.31	22.91	23.04			
35	35.37	27.22	0.17	55.91	0.32	22.93	23.08			
40	35.39	27,15	0.34	55.89	0.32	22.97	23.14			
45	35.41	26.06	0.60	54.76	0.36	23.33	23.52			
50	35.41	25.63	0.56	54.31	0.30	23.46	23.68			
55	35.46	24.71	0.65	53.41	0.32	23.78	24.02			
60	35.68	22.06	0.67	50.90	0.56	24.72	24.98			
Station 32						-				
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turb[ppm]	SigmaT[Kg/m3]	Density[Kg/m3]			
0.6	35.32	27.87	0.04	56.54	8.83	22.68	22.68			
5	35.32	27.88	0.03	56.55	0.28	22.67	22.70			
10	35.32	27.87	0.03	56.55	0.26	22.68	22.73			
15	35.31	27.77	0.06	56.43	0.28	22.70	22.77			
20	35.37	27.45	0.10	56.16	0.29	22.85	22.94			
	•					22,00	22.04			

Station 33									
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond mS/cm	Turbipomi	SigmaT[Ke/m3]	Density[Kg/m3]		
0.7	35.27	27.61	0.01	56.18	33.91	22.73			
5	35.27	27.61	0.00			22,72			
10	35.27	27.61	0.02			22.73			
15	35.27	27.61	0.04			22.73			
20	35.28	27.61	0.04	56.22		22.74			
25	35.34	27.55	0.10			22.80			
30	35.39	27.35				22.90			
	Station 34								
Depth[m]	Salinity	Temp[°C]	Choloro[ppb]	Cond[mS/cm]	Turbloom	SigmaT[Kg/m3]	Density[Kg/m3]		
0.6	35.22	27,71	0.68	56.23	11.42	22.65			
5	35.23	27.66	0.00	56.19		22.68			
10	35.22	27.54	0.00		0.25	22.71			
15	35.22	27.49	0.00			22.72			
20	35.22	27.48		55.99	0.29	22.74			
25	35.25	27.45	0.04	56.00	0.29	22.76			
30	35.29	27,44		56.05		22.79			
35	35.33	27.43	0.10	56.09		22.83			
40	35.39	27.39		56.14	0.30	22.89			
45	35.40	27.31	0.22	56.07	0.33	22.92			
50	35.38	26.96		55.67	0.45	23.02			
Station 38	5	•							
Depth[m]	Salinity	Temp[°C]	Choloroloph	Cond[mS/cm]	Turbinami	SigmaT\Ka/m3	Density[Kg/m3]		
0.6	35.23	28.06	0.11	56.61	1.18	22.55	22.55		
5	35.23	28.07	0.10		0.47	22.55			
10	35.23	28.08				22.54			
15	35.31	28.13		56.80		22.59			
20	35.25	27.78		56.35	1,71	22.65			
25	35.30	27.49	0.72	56.12	6.73				
Station 36		21.10	0.12	30.12	6.13	22.79	22.90		
		Temp[°C]	Chalarainphi	CondimStam	Turblanal	C:T[V-/0]	Density[Kg/m3]		
0.6	35.20	28.03	0.17	56.53	8.04	22.54			
5	35.20	28.01	0.10	56.53	0.34	22.55	22.54		
10	35.29	27.96		56.59	0.34				
15	35.29	27.95	0.05	56.59	0.20	22.63			
20	35.30	27.94	0.06	56.58	0.30	22.64	22.70		
25	35.31	27.88	0.16	56.55		22.65	22.73		
30	35.31	27.63	0.10	56.28	0.55 2.98	22.67	22.77		
Station 37		21.00	0.43	00.26	2.98	22.75	22.88		
		Temp[°C]	Cholorolophi	Cond[mg/cm]	Tuebles 1	Cinna TIZ-1 Oli	Density[Kg/m3]		
0.7	35.25	27.80	0.08	56.36	ruro(ppm)				
5	35.25	27.80		56.37	9.04 0.31	22.65	22.65		
10	35.25	27.79	0.01	56.36	_	22.65	22.67		
15	35.25	27.79	0.01	56.36	0.26	22.65	22.70		
20	35.26	27.78	0.08		0.25	22.65	22.72		
25	35.26	27.78	0.04	56.36	0.25	22.66	22.75		
30	35.26	27.79	0.05	56.37	0.25	22.66	22.77		
35	35.29	27.80	0.08	56.38	0.25	22.66	22.79		
40	35.36	27.55		56.43	0.24	22.68	22.83		
45	35.37	27.55	0.32	56.26	0.71	22.81	22.98		
50	35.37		0.38	56.22	0.85	22.84	23.03		
5V [00.07	27.37	0.44	56.09	0.90	22.88	23.09		