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NUTRIENT ENHANCED COASTAL OCEAN PRODUCTIVITY (NECOP): CTD OBSERVATIONS FROM R/V LONGHORN CRUISE MAY 14-21, 1992

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Ann Arbor, Michigan
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CONTENTS

PAGE

ABSTRACT 1

1. INTRODUCTION 1

2. NOTES ON DATA ACQUISITION 1

3. NOTES ON DATA PROCESSING 2

4. CTD LOG 3

5. MAP OF STUDY REGION 4

PLOTS AND TABLES 5

Nutrient Enhanced Coastal Ocean Productivity (NECOP): CTD Observations from R/V *Longhorn* Cruise May 14-21, 1992[1]

Dale Y. Dong, Alan W. Bratkovich, and Scott P. Dinnel[2]

Abstract. This memorandum describes the hydrographic data set acquired as part of NOAA's *Nutrient Enhanced Coastal Ocean Productivity (NECOP)* program. The data were collected on a cruise aboard the R/V *Longhorn* (University of Texas Marine Science Institute) during the period of May 14 to May 21, 1992. The survey spanned a region starting immediately east of the Mississippi River delta and continuing westward to the Texas border.

1. INTRODUCTION

This report describes the hydrographic database acquired as part of the third year field effort of the NOAA-funded Nutrient Enhanced Coastal Ocean Productivity (NECOP) Program. The data presented here were gathered aboard the R/V *Longhorn* from May 14-21, 1992. Dr. A.W. Bratkovich was chief scientist. Included in the report are the CTD log, a map of the ship's track, and plotted and tabulated bin-averaged CTD data.

The general objective of the cruise was to acquire near-synoptic survey data adequate for the accurate description of the physical and biochemical status of shelf waters directly influenced by riverine fluxes associated with the Mississippi and Atchafalaya Rivers.

To gather these data, 86 station locations were assigned in a region of the Gulf of Mexico from the Mississippi River Delta to the south Texas coast. Stations were numbered consecutively from 1 to 86. Stations 41 and 66 were later deleted from cruise plans. One CTD cast was made at each of the 84 remaining stations for a total of 84 casts.

Stations numbers, station locations, approximate bottom depths, and the times of the casts are included in the CTD log. Station positions are also shown on a plan view map of the NECOP study region. The CTD data for each cast are shown in both plot and table. For ease of comparison, data from stations of similar depth and close proximity are plotted using common range and scale. The data in this report include temperature, salinity, density, dissolved oxygen, and light transmission. Associated nutrient, chlorophyll, and water bottle data are reported under a separate cover.

This work was supported by NOAA's Coastal Ocean Program, directed by Dr. D. Scavia. The NECOP component of the program was managed by Drs. D. Atwood, W. Graham, and T. Bright.

2. NOTES ON DATA ACQUISITION

The CTD unit was a Sea-Bird Electronics 911*Plus* CTD System (12 words, 24 Hz) equipped with transmissometer, oxygen sensor, and water bottle rosette (General Oceans). The serial numbers for the CTD and associated sensors were as follows:

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[1]GLERL Contribution No. 834

[2]Univ. of S. Mississippi, Center for Marine Science

SBE 911*Plus* S/N 9P5793-255,
Temperature S/N 031278,
Conductivity S/N 041019,
Pressure (High Resolution Digiquartz) S/N 48171,
Transmissometer (0.25 m path length) S/N 191, and
Oxygen Sensor S/N 130260.

All casts were made from the ship. The descent rate ranged from 0.2 to 0.5 meter per second. Data were recorded using the Sea-Bird Electronics interface box, an on-deck personal computer, and Sea-Bird Electronics software for data acquisition (SEASOFT version 4.003). Latitude and longitude were taken from the ship's Loran. Position is approximate (±20 m). The time was recorded shortly before each cast.

3. NOTES ON DATA PROCESSING

The data processing and the development of application programs were performed by Dale Dong at NOAA Great Lakes Environmental Research Laboratory (GLERL).

Raw CTD data were processed using Sea-Bird Electronics SEASOFT (version 4.003). The data were approximately time-aligned and then bin-averaged by depth (1 meter or 0.5 meter depth bins).

Plotting programs were developed on personal computers using Microsoft FORTRAN (version 5.1) and PLOTWORKS Plot88 (revision 20). Coastline and bottom-contour data were hand-digitized from NOAA navigation charts using a Calcomp digitizing tablet. The bin-averaged CTD data tables were made using Borland Quattro Pro (version 3.0).

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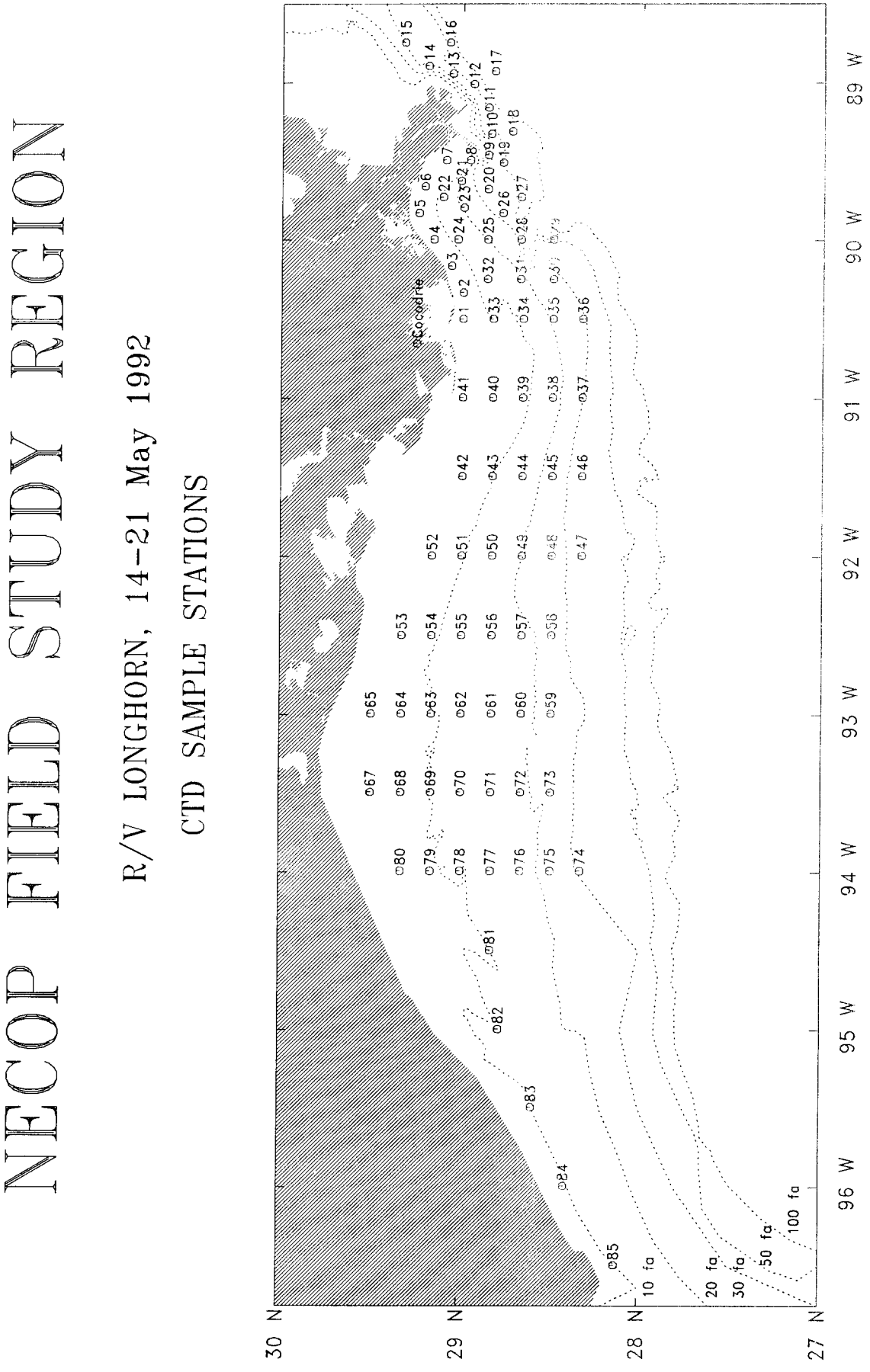
CTD LOG from R/V LONGHORN CRUISE, 14 - 21 MAY 1992

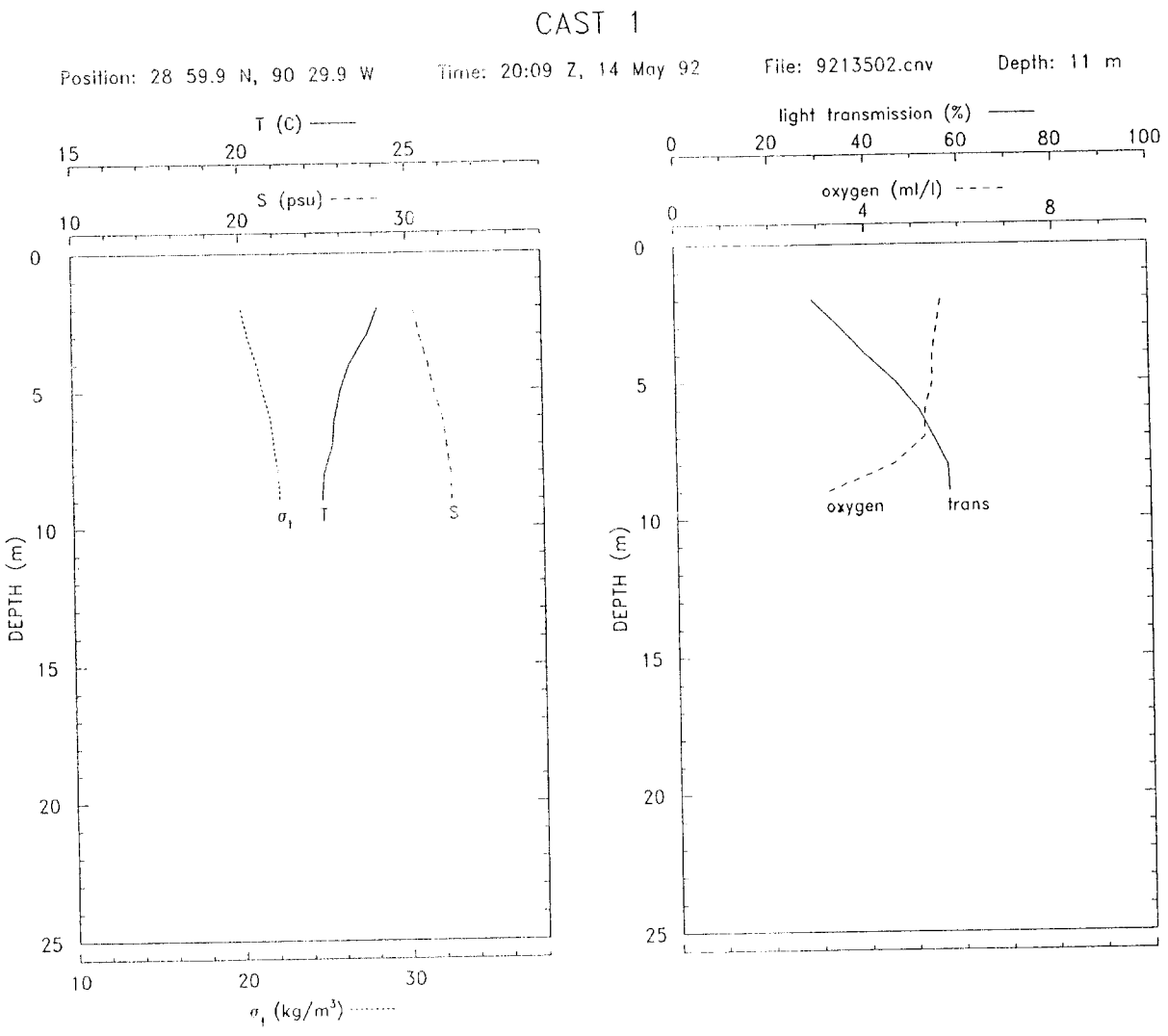
date dy/mo/yr	time (Z)	cast number	latitude (deg N)	longitude (deg W)	depth (m)	operation number
14/05/92	20:09	CAST 1	28 59.9	90 29.9	11	135.02
14/05/92	21:58	CAST 2	29 00.2	90 19.9	11	135.04
14/05/92	23:36	CAST 3	29 04.1	90 09.3	10	135.06
15/05/92	01:14	CAST 4	29 10.4	89 59.5	10	136.02
15/05/92	02:30	CAST 5	29 15.0	89 49.8	9	136.04
15/05/92	03:46	CAST 6	29 12.8	89 39.6	9	136.06
15/05/92	05:12	CAST 7	29 05.9	89 29.9	10	136.08
15/05/92	11:25	CAST 8	28 57.5	89 30.0	33	136.10
15/05/92	12:39	CAST 9	28 51.7	89 27.9	28	136.12
15/05/92	13:45	CAST 10	28 50.9	89 19.9	74	136.14
15/05/92	15:08	CAST 11	28 52.1	89 09.9	111	136.16
15/05/92	16:44	CAST 12	28 57.1	89 00.8	97	136.18
15/05/92	18:08	CAST 13	29 04.0	88 57.1	61	136.20
15/05/92	19:28	CAST 14	29 12.1	88 54.1	45	136.22
15/05/92	21:00	CAST 15	29 20.3	88 44.9	54	136.24
15/05/92	23:08	CAST 16	29 05.2	88 45.0	100	136.26
16/05/92	01:49	CAST 17	28 50.0	88 56.0	450	137.01
16/05/92	05:00	CAST 18	28 44.1	89 18.7	129	137.03
16/05/92	06:43	CAST 19	28 47.0	89 31.1	89	137.05
16/05/92	08:11	CAST 20	28 52.3	89 41.4	64	137.07
16/05/92	09:27	CAST 21	29 00.6	89 37.8	38	137.09
16/05/92	10:46	CAST 22	29 07.2	89 43.9	22	137.11
16/05/92	12:00	CAST 23	29 00.2	89 48.2	38	137.13
16/05/92	13:28	CAST 24	29 02.1	90 00.2	21	137.15
16/05/92	15:07	CAST 25	28 51.1	90 00.3	38	137.17
16/05/92	16:42	CAST 26	28 46.9	89 50.1	62	137.19
16/05/92	17:53	CAST 27	28 41.0	89 49.7	97	137.21
16/05/92	19:14	CAST 28	28 41.0	90 00.5	108	137.23
16/05/92	21:05	CAST 29	28 30.2	90 00.1	94	137.25
16/05/92	22:56	CAST 30	28 30.1	90 15.1	50	137.27
17/05/92	00:22	CAST 31	28 41.2	90 15.2	30	138.02
17/05/92	01:46	CAST 32	28 52.0	90 15.2	22	138.04
17/05/92	03:28	CAST 33	28 50.0	90 30.6	18	138.06
17/05/92	05:05	CAST 34	28 40.2	90 30.1	19	138.08
17/05/92	06:34	CAST 35	28 30.0	90 30.0	38	138.10
17/05/92	08:00	CAST 36	28 20.0	90 29.9	53	138.12
17/05/92	13:22	CAST 37	28 20.0	91 00.0	58	138.14
17/05/92	14:56	CAST 38	28 30.0	91 00.0	34	138.16
17/05/92	16:24	CAST 39	28 40.1	91 00.1	15	138.18
17/05/92	17:51	CAST 40	28 50.1	91 00.2	9	138.20
CAST 41 was deleted from the cruise plan.						
17/05/92	21:08	CAST 42	29 00.6	91 30.7	10	138.22
17/05/92	22:39	CAST 43	28 50.3	91 30.4	19	138.24

date dy/mo/yr	time (Z)	cast number	latitude (deg N)	longitude (deg W)	depth (m)	operation number
18/05/92	00:08	CAST 44	28 40.2	91 30.1	28	139.02
18/05/92	01:39	CAST 45	28 30.1	91 30.1	45	139.04
18/05/92	03:11	CAST 46	28 20.2	91 30.1	65	139.06
18/05/92	11:20	CAST 47	28 20.3	92 00.2	63	139.08
18/05/92	12:45	CAST 48	28 30.5	92 00.2	49	139.10
18/05/92	14:10	CAST 49	28 40.7	92 00.2	38	139.12
18/05/92	15:39	CAST 50	28 50.6	92 00.6	27	139.14
18/05/92	16:53	CAST 51	29 00.4	92 00.1	20	139.16
18/05/92	18:16	CAST 52	29 10.5	92 00.3	8	139.18
18/05/92	21:36	CAST 53	29 21.2	92 30.8	12	139.20
18/05/92	23:10	CAST 54	29 10.7	92 30.5	18	139.22
19/05/92	00:31	CAST 55	29 00.7	92 30.5	24	140.02
19/05/92	02:08	CAST 56	28 50.6	92 30.6	31	140.04
19/05/92	03:35	CAST 57	28 39.8	92 30.2	34	140.06
19/05/92	05:06	CAST 58	28 30.4	92 30.3	49	140.08
19/05/92	11:13	CAST 59	28 30.1	93 00.0	46	140.10
19/05/92	12:31	CAST 60	28 40.2	93 00.0	34	140.12
19/05/92	13:48	CAST 61	28 50.1	93 00.0	27	140.14
19/05/92	15:02	CAST 62	29 00.1	93 00.2	25	140.16
19/05/92	16:21	CAST 63	29 10.1	93 00.2	20	140.18
19/05/92	17:39	CAST 64	29 20.2	93 00.2	17	140.20
19/05/92	18:54	CAST 65	29 30.2	93 00.0	14	140.22
CAST 66 was deleted from the cruise plan.						
19/05/92	22:02	CAST 67	29 30.0	93 30.0	10	140.24
19/05/92	23:26	CAST 68	29 20.0	93 30.0	16	140.26
20/05/92	00:48	CAST 69	29 10.0	93 30.2	18	141.02
20/05/92	02:08	CAST 70	28 59.8	93 30.1	23	141.04
20/05/92	03:33	CAST 71	28 50.0	93 30.4	21	141.06
20/05/92	04:58	CAST 72	28 40.0	93 30.1	30	141.08
20/05/92	06:34	CAST 73	28 30.0	93 30.0	42	141.10
20/05/92	11:13	CAST 74	28 20.1	94 00.1	54	141.12
20/05/92	12:35	CAST 75	28 30.2	94 00.4	40	141.14
20/05/92	13:52	CAST 76	28 40.2	94 00.0	29	141.16
20/05/92	15:08	CAST 77	28 50.0	94 00.0	24	141.18
20/05/92	16:27	CAST 78	28 59.9	94 00.1	20	141.20
20/05/92	17:47	CAST 79	29 10.1	94 00.2	17	141.22
20/05/92	19:06	CAST 80	29 20.0	93 59.9	12	141.24
20/05/92	23:43	CAST 81	28 49.9	94 29.8	21	141.26
21/05/92	02:46	CAST 82	28 46.9	95 00.6	19	142.02
21/05/92	05:57	CAST 83	28 36.7	95 30.7	18	142.04
21/05/92	09:16	CAST 84	28 24.8	96 00.3	18	142.06
21/05/92	12:46	CAST 85	28 08.0	96 30.3	20	142.08
21/05/92	15:46	CAST 86	27 47.6	96 31.9	40	142.10

5.0 MAP OF STUDY REGION



PLOTS AND TABLES

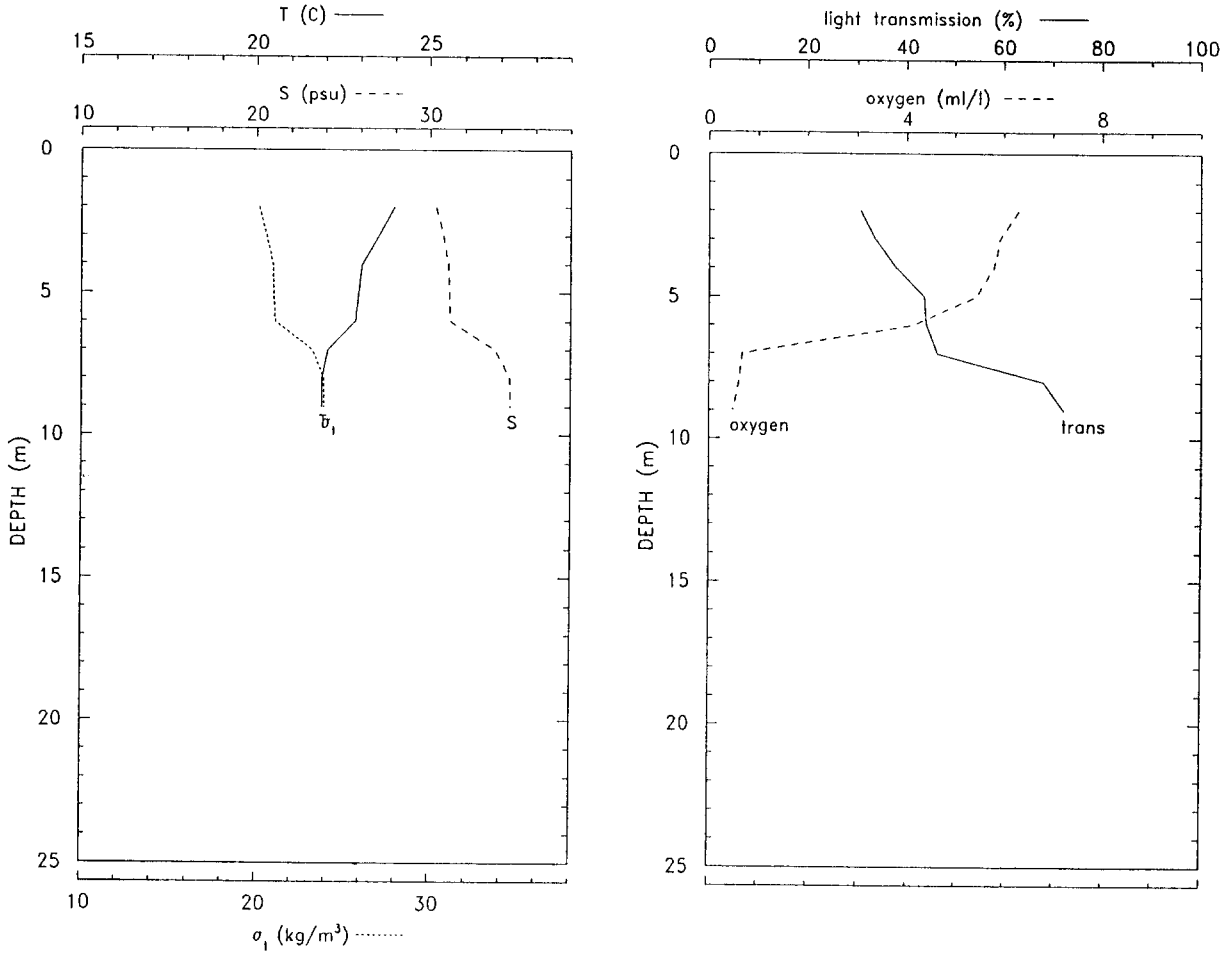


CAST 1

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.12	30.41	20.14	28.88	5.61
3.0	23.80	30.77	20.50	34.71	5.52
4.0	23.28	31.26	21.02	40.06	5.42
5.0	22.98	31.59	21.36	46.42	5.42
6.0	22.80	32.09	21.79	51.24	5.26
7.0	22.72	32.32	21.98	54.36	5.25
8.0	22.47	32.53	22.21	57.30	4.58
9.0	22.41	32.57	22.26	57.65	3.20

CAST 2

Position: 29 00.2 N, 90 19.9 W Time: 21:58 Z, 14 May 92 File: 9213504.cnv Depth: 11 m

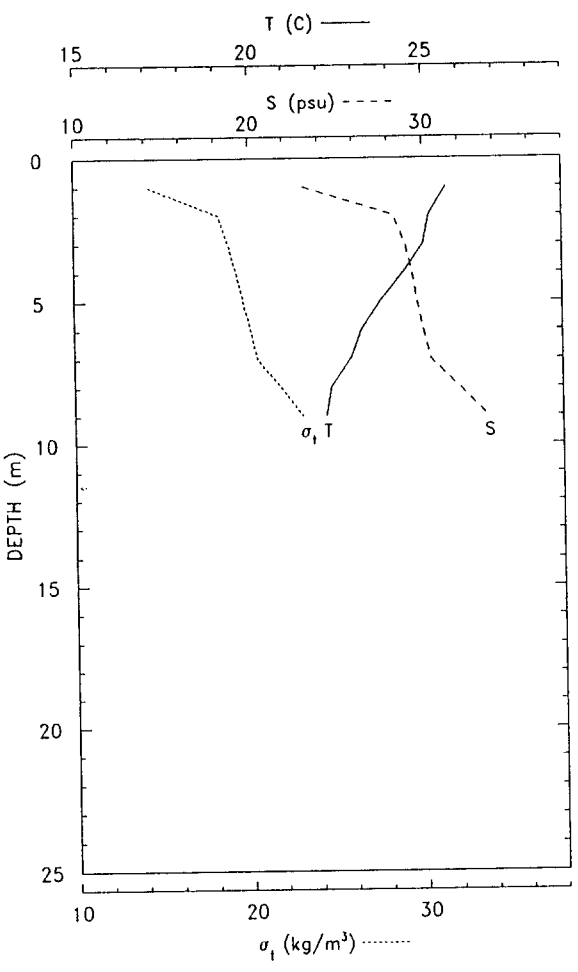


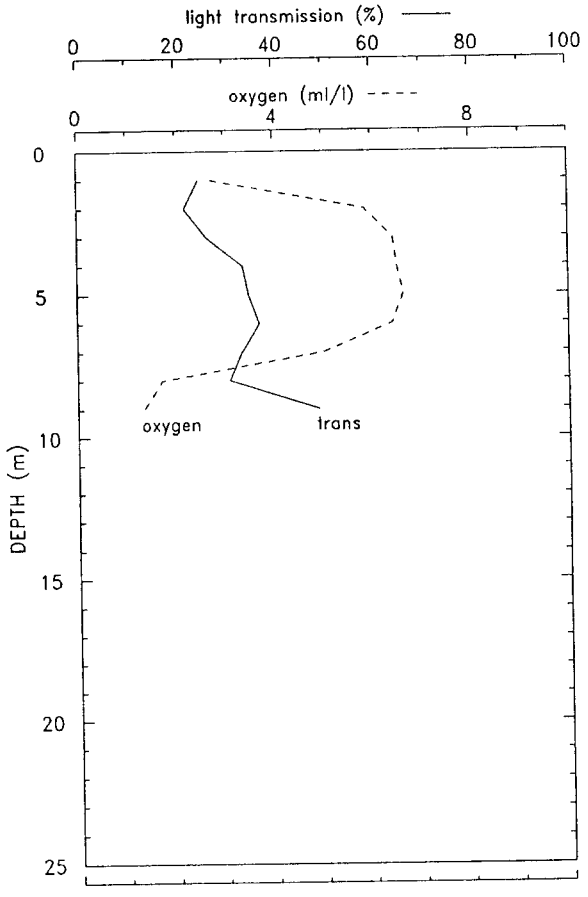
CAST 2

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	23.99	30.38	20.16	30.70	6.30
3.0	23.53	30.78	20.59	33.74	5.92
4.0	23.05	31.08	20.95	37.88	5.80
5.0	22.95	31.12	21.01	43.63	5.45
6.0	22.85	31.19	21.09	44.06	4.11
7.0	22.07	33.75	23.25	46.39	0.69
8.0	21.89	34.55	23.91	68.13	0.61
9.0	21.89	34.56	23.91	72.38	0.49

CAST 3

Position: 29 04.1 N, 90 09.3 W Time: 23:36 Z, 14 May 92 File: 9213506.cnv Depth: 10 m



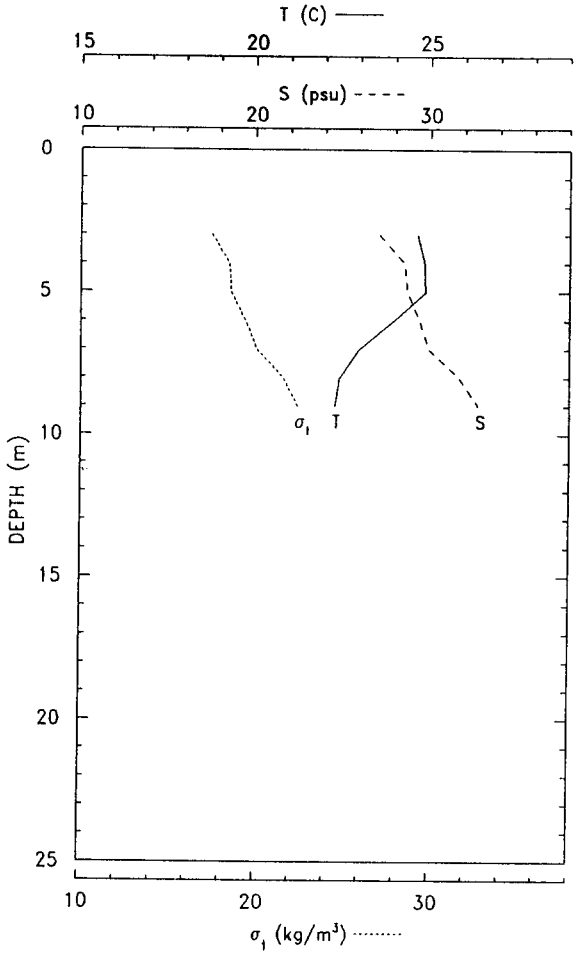


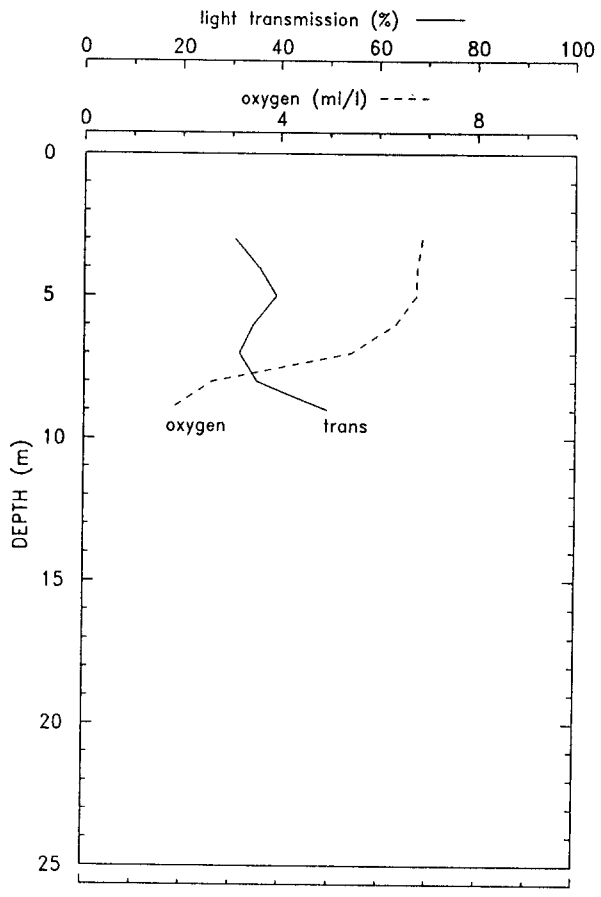
CAST 3

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
1.0	25.67	23.21	14.27	24.83	2.73
2.0	25.17	28.36	18.28	21.83	5.86
3.0	25.01	29.01	18.82	26.42	6.43
4.0	24.45	29.40	19.28	33.70	6.52
5.0	23.78	29.67	19.68	34.89	6.64
6.0	23.23	30.01	20.09	37.08	6.42
7.0	22.92	30.42	20.49	33.53	5.03
8.0	22.34	32.04	21.88	30.98	1.71
9.0	22.20	33.60	23.10	49.18	1.34

CAST 4

Position: 29 10.4 N, 89 59.5 W Time: 01:14 Z, 15 May 92 File: 9213602.cnv Depth: 10 m



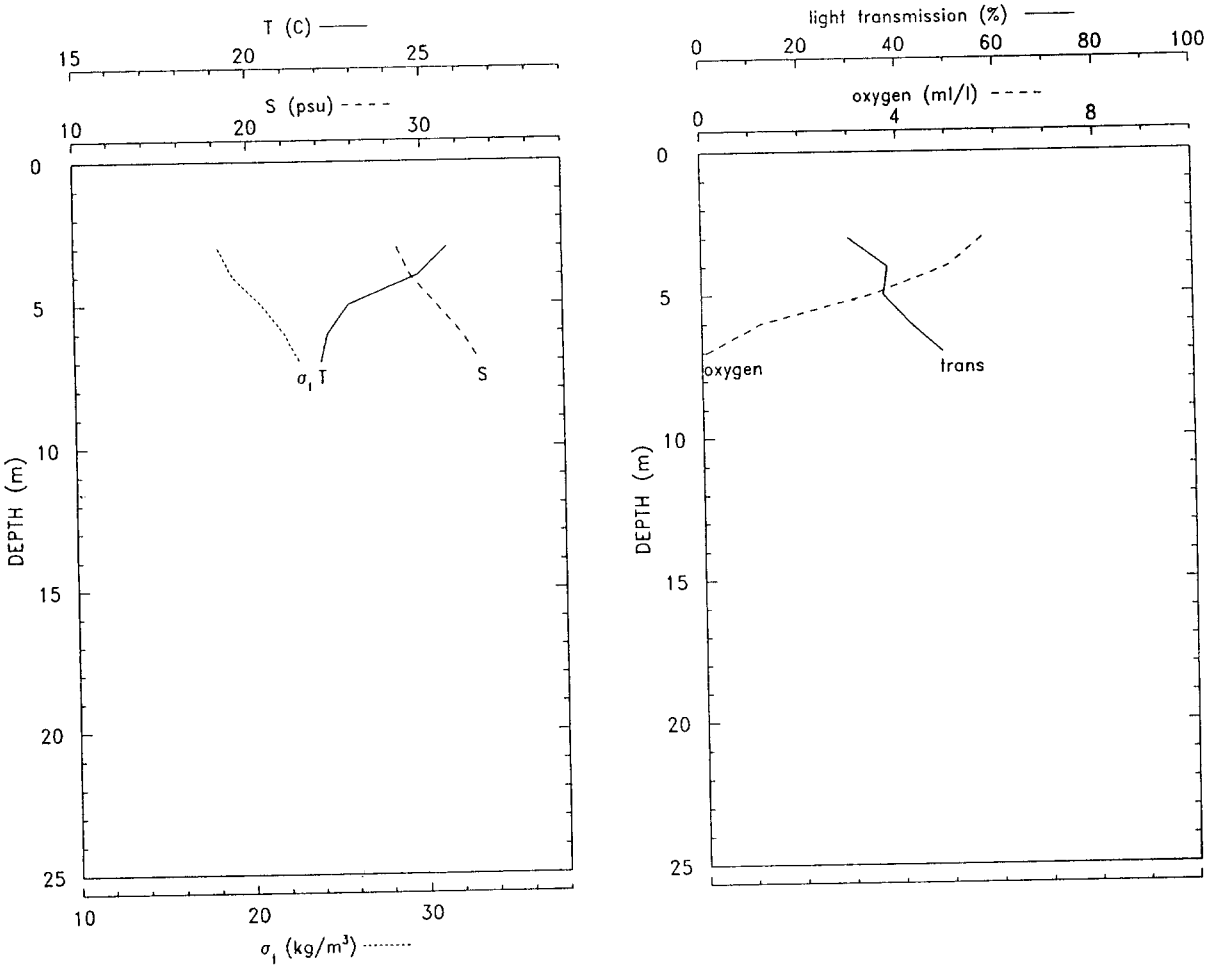


CAST 4

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.64	27.11	17.50	30.68	6.89
4.0	24.85	28.54	18.52	35.63	6.79
5.0	24.88	28.69	18.61	39.25	6.77
6.0	23.97	29.42	19.44	34.44	6.33
7.0	23.00	29.94	20.11	31.61	5.42
8.0	22.44	31.71	21.60	35.23	2.61
9.0	22.30	32.80	22.46	49.52	1.75

CAST 5

Position: 29 15.0 N, 89 49.8 W Time: 02:30 Z, 15 May 92 File: 9213604.cnv Depth: 9 m

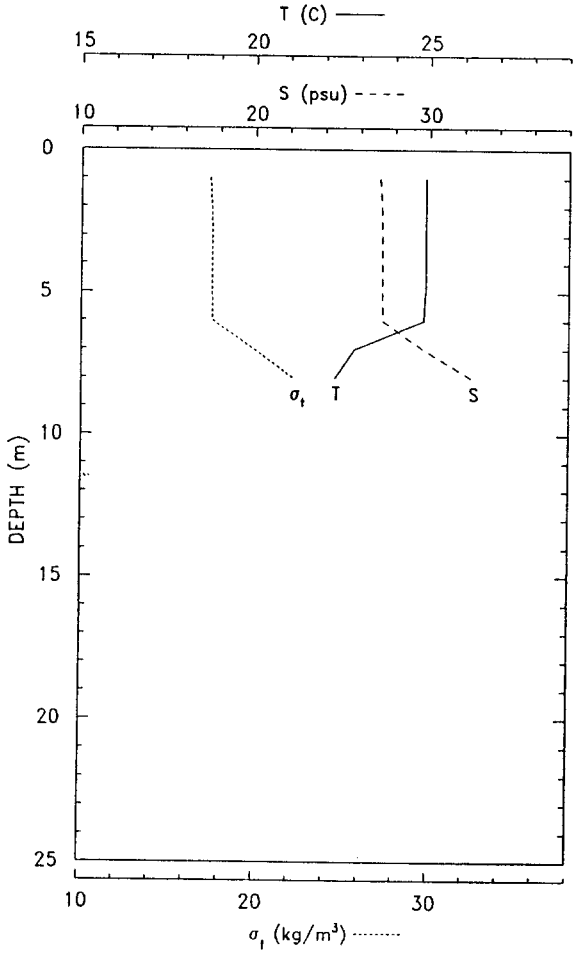


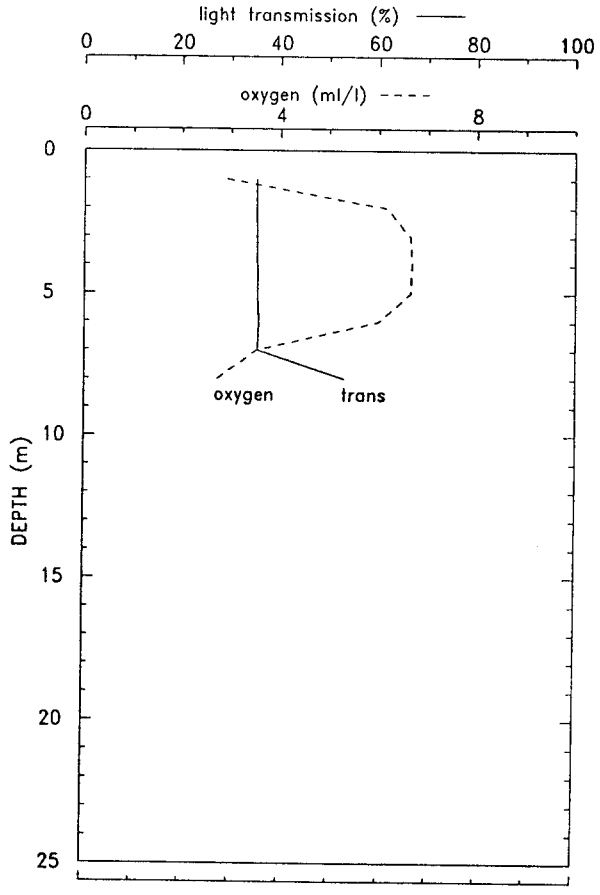
CAST 5

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.71	28.59	18.30	30.01	5.73
4.0	24.86	29.35	19.12	37.89	5.02
5.0	22.90	30.78	20.77	37.01	3.46
6.0	22.28	32.20	22.02	42.46	1.21
7.0	22.07	33.28	22.89	49.16	0.09

CAST 6

Position: 29 12.8 N, 89 39.6 W Time: 03:46 Z, 15 May 92 File: 9213606.cnv Depth: 9 m



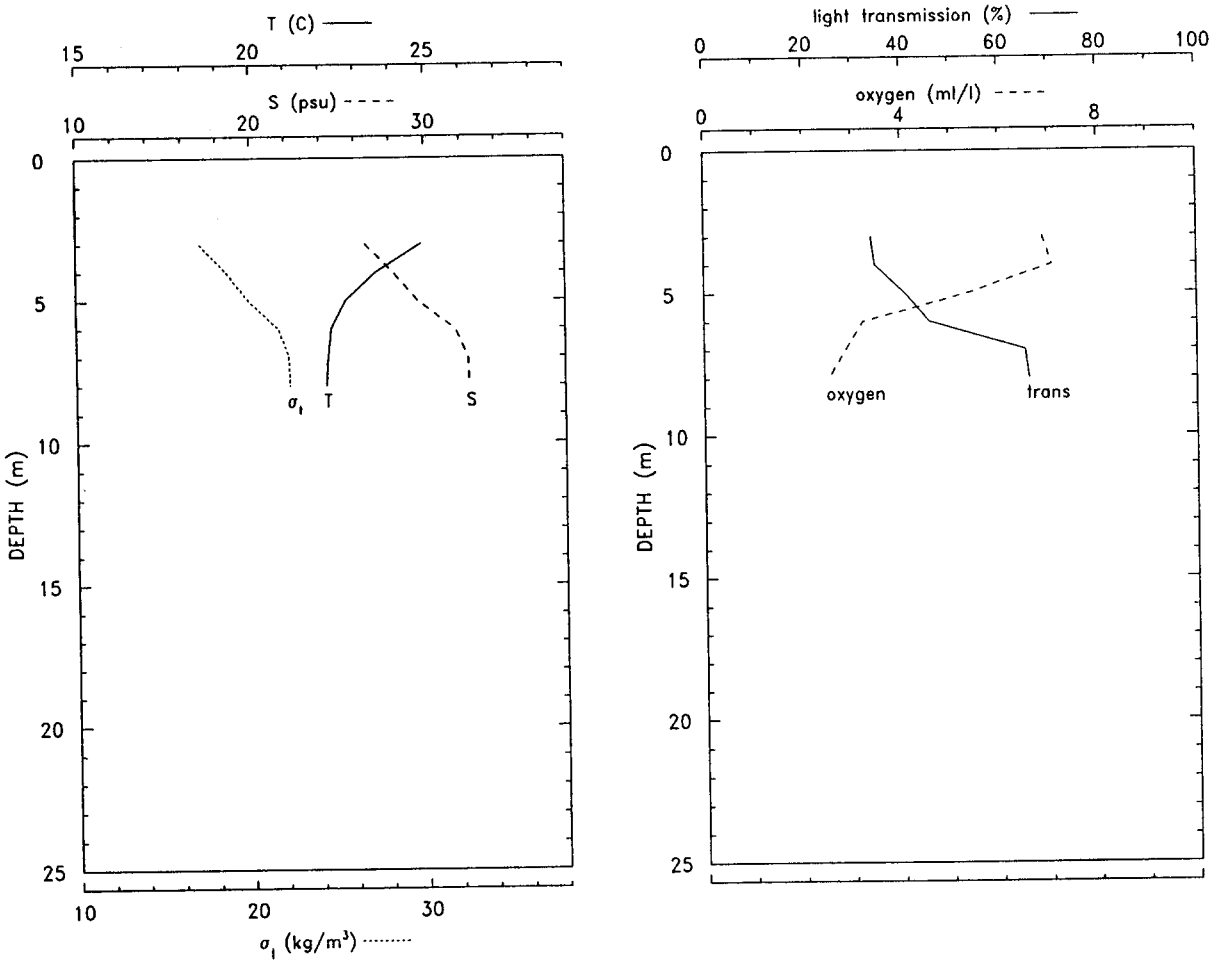


CAST 6

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
1.0	24.89	27.11	17.43	35.11	2.91
2.0	24.90	27.23	17.51	35.12	6.16
3.0	24.90	27.28	17.55	35.24	6.65
4.0	24.90	27.28	17.55	35.32	6.67
5.0	24.89	27.29	17.56	35.34	6.64
6.0	24.84	27.31	17.59	35.59	5.99
7.0	22.84	29.68	19.95	35.34	3.52
8.0	22.29	32.46	22.21	53.24	2.73

CAST 7

Position: 29 05.9 N, 89 29.9 W Time: 05:12 Z, 15 May 92 File: 9213608.cnv Depth: 10 m

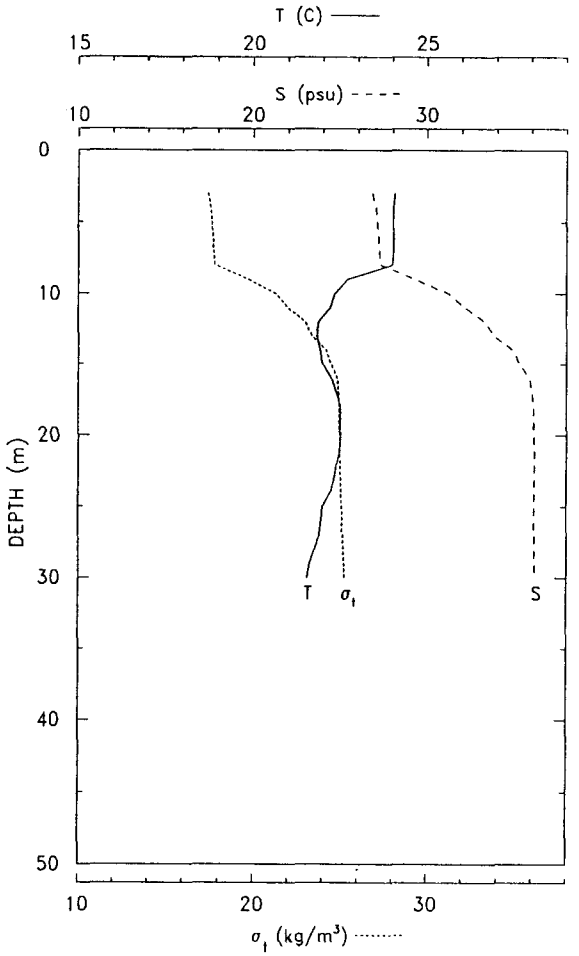


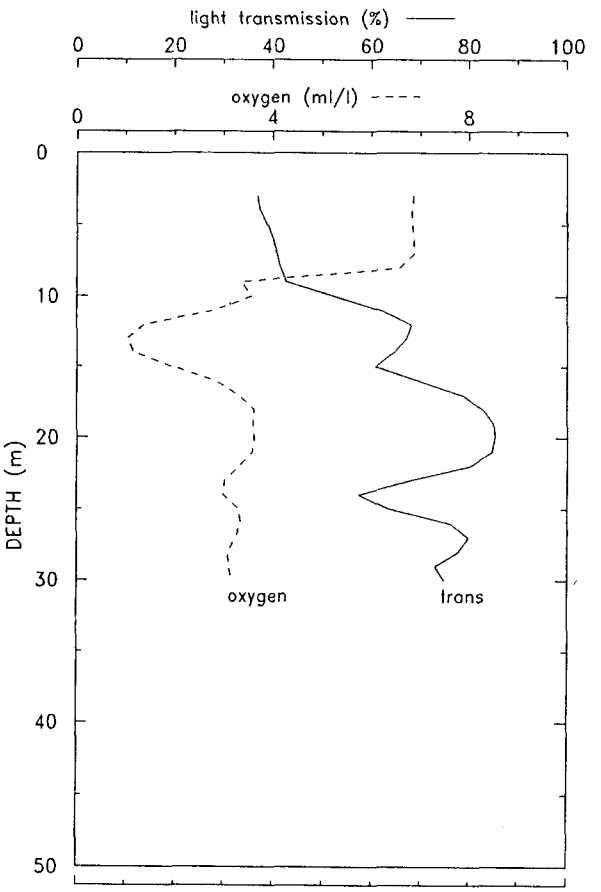
CAST 7

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.91	26.59	17.03	33.98	6.89
4.0	23.63	28.18	18.60	34.77	7.08
5.0	22.74	29.57	19.89	40.82	5.38
6.0	22.31	31.67	21.61	45.74	3.22
7.0	22.22	32.42	22.20	65.24	2.86
8.0	22.17	32.48	22.25	66.06	2.52

CAST 8

Position: 28 57.5 N, 89 30.0 W Time: 11:25 Z, 15 May 92 File: 9213610.cnv Depth: 33 m





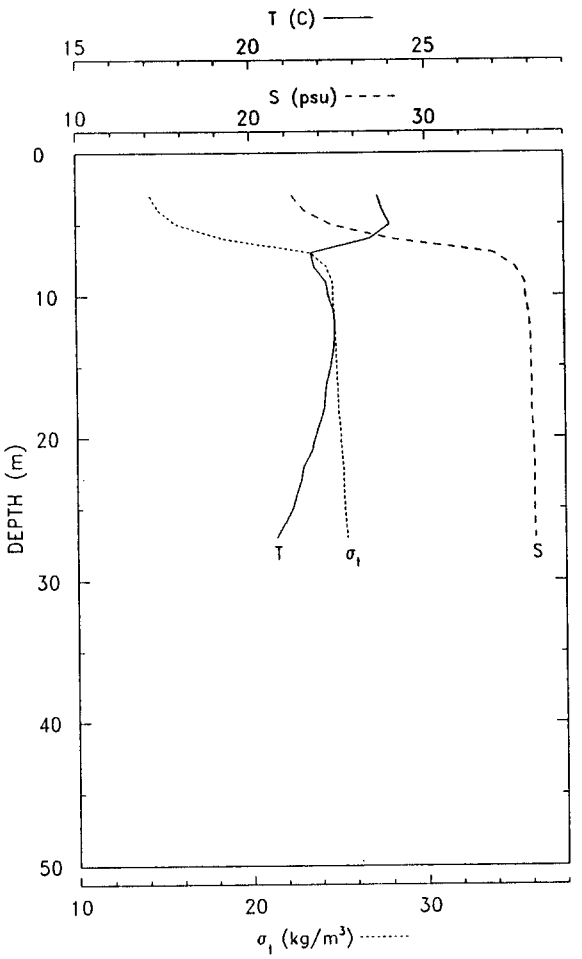
CAST 8

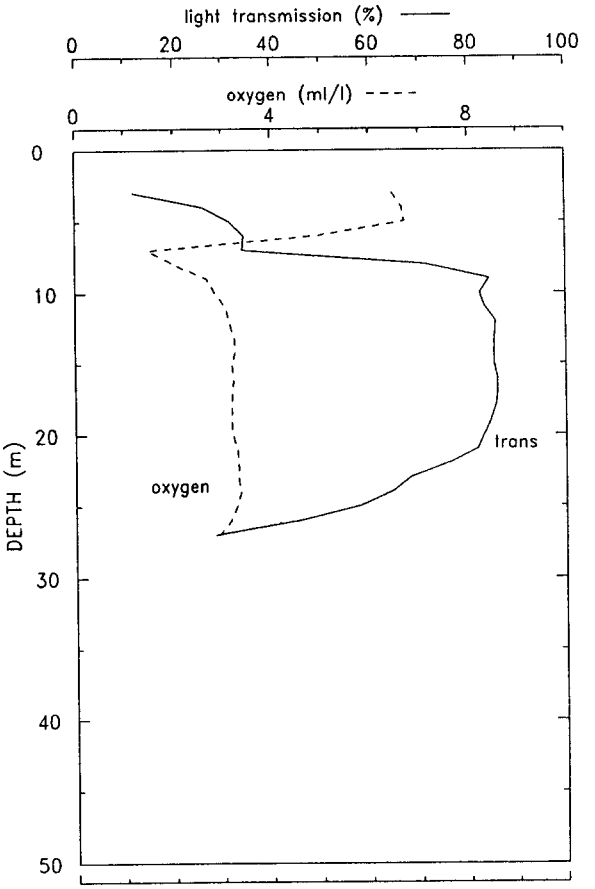
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.07	26.84	17.46	36.92	6.87
4.0	24.03	27.04	17.62	37.49	6.84
5.0	24.03	27.11	17.67	39.01	6.84
6.0	24.03	27.16	17.71	40.08	6.87
7.0	24.02	27.22	17.76	40.90	6.89
8.0	23.98	27.32	17.84	41.63	6.58
9.0	22.71	29.32	19.72	42.84	3.37
10.0	22.35	31.31	21.32	52.52	3.58
11.0	22.22	32.20	22.04	62.19	2.82
12.0	21.88	33.39	23.03	68.20	1.41
13.0	21.83	33.83	23.38	67.15	1.04
14.0	21.92	34.92	24.18	64.53	1.16
15.0	22.00	35.34	24.48	60.88	1.94
16.0	22.26	35.90	24.83	69.85	2.84

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
17.0	22.40	36.04	24.90	78.89	3.31
18.0	22.51	36.12	24.93	82.91	3.63
19.0	22.50	36.13	24.94	85.11	3.61
20.0	22.49	36.14	24.95	85.40	3.63
21.0	22.48	36.15	24.96	84.74	3.59
22.0	22.39	36.15	24.98	80.24	3.33
23.0	22.32	36.16	25.01	68.03	3.03
24.0	22.22	36.16	25.04	57.44	3.00
25.0	22.00	36.16	25.10	63.91	3.31
26.0	21.96	36.17	25.12	76.27	3.36
27.0	21.90	36.17	25.13	79.96	3.25
28.0	21.77	36.17	25.17	77.83	3.09
29.0	21.63	36.19	25.23	73.02	3.11
30.0	21.56	36.19	25.25	74.96	3.17

CAST 9

Position: 28 51.7 N, 89 27.9 W Time: 12:39 Z, 15 May 92 File: 9213612.cnv Depth: 28 m





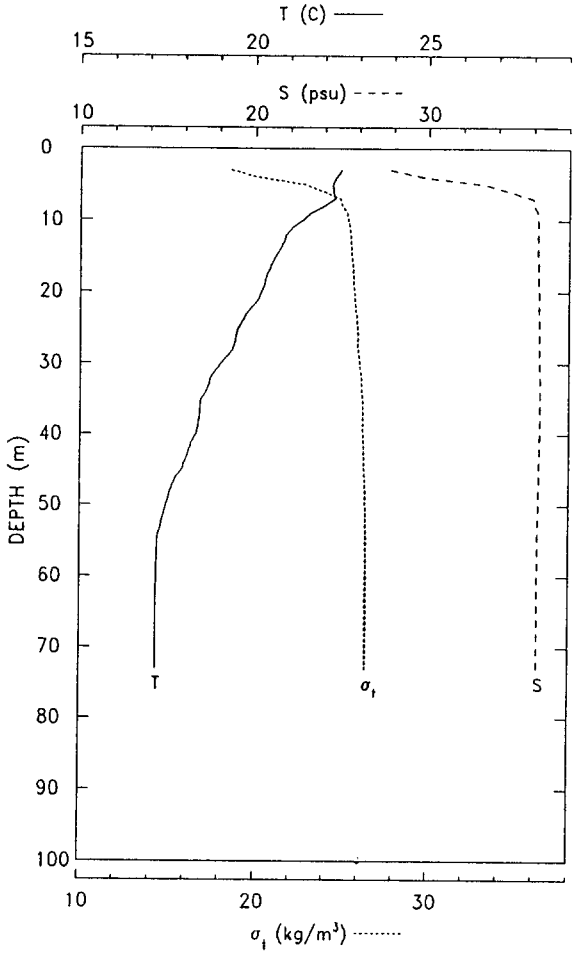
CAST 9

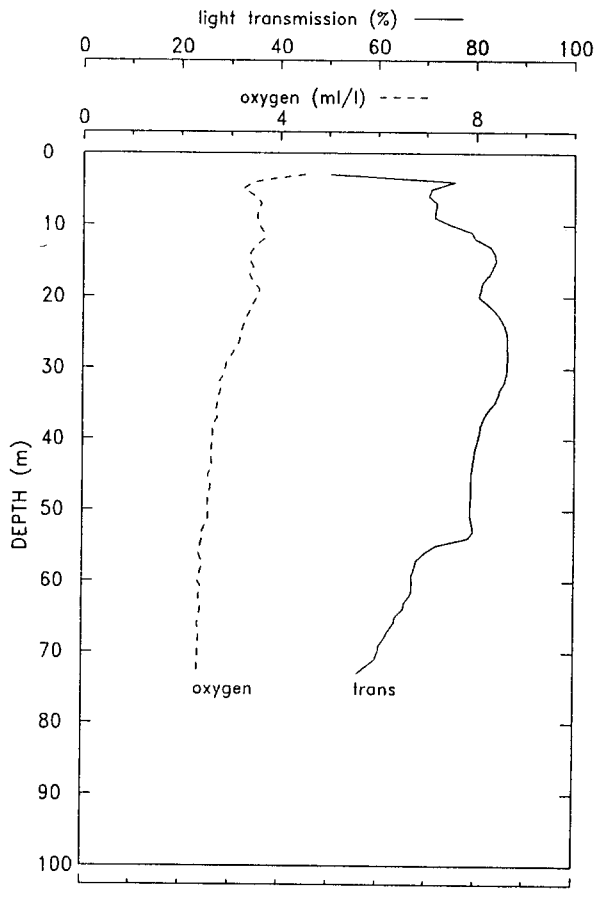
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.65	22.42	14.25	11.90	6.46
4.0	23.79	23.10	14.72	26.09	6.67
5.0	24.01	24.65	15.82	31.65	6.72
6.0	23.44	28.03	18.54	34.65	4.94
7.0	21.74	33.94	23.49	34.32	1.49
8.0	21.84	35.17	24.40	71.02	2.03
9.0	22.17	35.73	24.73	84.34	2.69
10.0	22.24	35.78	24.74	82.41	2.87
11.0	22.38	35.93	24.81	83.43	3.08
12.0	22.42	36.00	24.86	85.57	3.15
13.0	22.40	36.03	24.89	85.36	3.24
14.0	22.37	36.05	24.91	85.27	3.28
15.0	22.30	36.07	24.94	85.25	3.19

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
16.0	22.18	36.07	24.98	85.96	3.24
17.0	22.14	36.08	25.00	85.88	3.20
18.0	22.10	36.09	25.02	85.49	3.20
19.0	21.97	36.13	25.09	84.51	3.19
20.0	21.84	36.17	25.15	83.11	3.21
21.0	21.74	36.20	25.21	81.81	3.30
22.0	21.51	36.21	25.27	75.97	3.33
23.0	21.43	36.21	25.29	68.19	3.32
24.0	21.30	36.20	25.33	64.45	3.38
25.0	21.17	36.20	25.36	57.88	3.29
26.0	20.96	36.22	25.43	45.84	3.17
27.0	20.72	36.24	25.51	28.50	2.94

CAST 10

Position: 28 50.9 N, 89 19.9 W Time: 13:45 Z, 15 May 92 File: 9213614.cnv Depth: 74 m



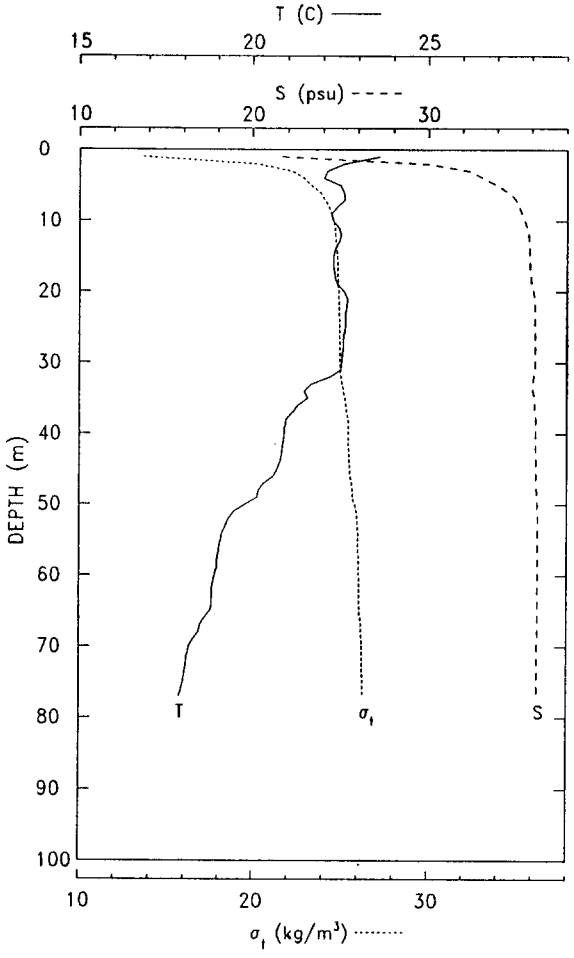


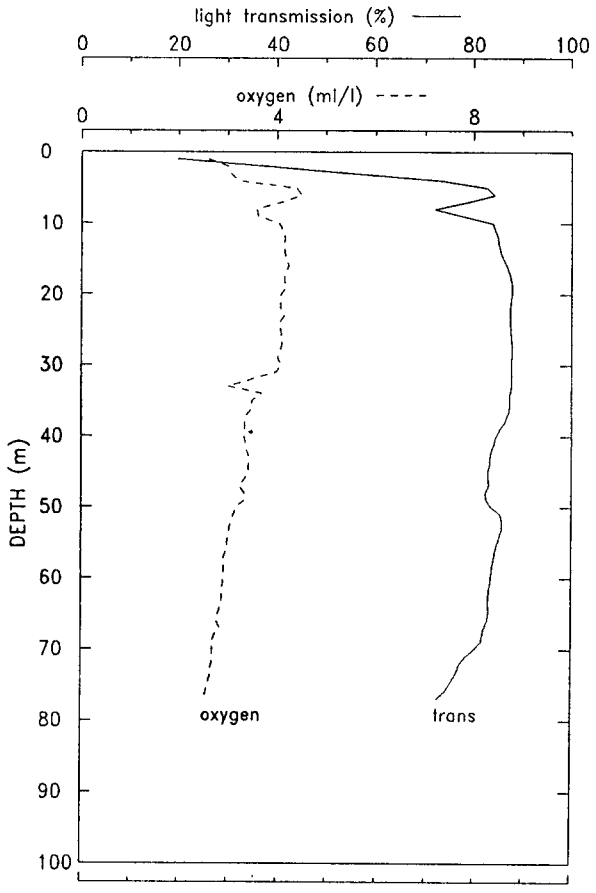
CAST 10

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	22.46	27.78	18.62	50.30	4.50
4.0	22.32	29.70	20.11	75.77	3.46
5.0	22.22	33.25	22.83	71.13	3.24
6.0	22.23	34.68	23.92	70.51	3.49
7.0	22.29	35.96	24.87	72.16	3.62
8.0	21.98	36.00	24.99	71.82	3.53
9.0	21.57	36.24	25.28	71.71	3.54
10.0	21.35	36.24	25.34	74.87	3.57
11.0	21.06	36.24	25.42	79.08	3.67
12.0	20.88	36.23	25.47	79.97	3.67
13.0	20.81	36.24	25.49	82.96	3.50
14.0	20.71	36.25	25.53	83.90	3.39
15.0	20.57	36.26	25.57	84.17	3.39
16.0	20.47	36.26	25.60	83.44	3.46
17.0	20.39	36.27	25.63	82.74	3.37
18.0	20.30	36.27	25.65	81.38	3.47
19.0	20.25	36.27	25.67	81.08	3.58
20.0	20.17	36.28	25.70	80.55	3.55
21.0	20.10	36.29	25.72	82.38	3.45
22.0	19.93	36.30	25.78	83.93	3.39
23.0	19.76	36.31	25.83	85.08	3.31
24.0	19.65	36.32	25.86	85.89	3.26
25.0	19.53	36.33	25.90	86.35	3.21
26.0	19.46	36.33	25.92	86.51	3.18
27.0	19.44	36.33	25.93	86.43	3.13
28.0	19.37	36.33	25.94	86.59	3.03
29.0	19.22	36.34	25.99	86.56	2.93
30.0	19.05	36.35	26.04	86.52	2.89
31.0	18.90	36.36	26.09	86.29	2.87
32.0	18.75	36.37	26.13	85.91	2.77
33.0	18.69	36.37	26.15	85.01	2.80
34.0	18.61	36.37	26.17	84.54	2.75
35.0	18.47	36.37	26.20	83.88	2.74
36.0	18.45	36.37	26.21	82.59	2.71
37.0	18.44	36.37	26.21	81.72	2.74
38.0	18.42	36.37	26.21	81.10	2.65
39.0	18.38	36.36	26.22	80.86	2.64
40.0	18.33	36.36	26.23	80.53	2.64
41.0	18.21	36.35	26.26	80.22	2.62
42.0	18.15	36.35	26.27	79.85	2.61
43.0	18.09	36.34	26.28	79.60	2.62
44.0	18.00	36.34	26.30	79.40	2.64
45.0	17.94	36.33	26.31	79.25	2.56
46.0	17.77	36.32	26.34	79.21	2.59
47.0	17.67	36.31	26.36	79.16	2.61
48.0	17.60	36.30	26.37	79.20	2.54
49.0	17.55	36.29	26.37	79.07	2.56
50.0	17.48	36.29	26.39	78.97	2.56
51.0	17.43	36.28	26.39	79.03	2.57
52.0	17.37	36.28	26.41	79.35	2.52
53.0	17.33	36.27	26.41	79.62	2.44
54.0	17.26	36.26	26.42	78.44	2.43
55.0	17.24	36.26	26.42	72.13	2.41
56.0	17.24	36.26	26.42	69.78	2.37
57.0	17.23	36.26	26.42	68.16	2.43
58.0	17.22	36.25	26.42	67.73	2.43
59.0	17.21	36.25	26.43	67.21	2.39
60.0	17.21	36.25	26.43	67.14	2.35
61.0	17.21	36.25	26.43	67.21	2.44
62.0	17.20	36.25	26.43	66.81	2.38
63.0	17.20	36.25	26.43	65.69	2.40
64.0	17.20	36.25	26.43	65.32	2.42
65.0	17.20	36.25	26.43	63.80	2.38
66.0	17.20	36.25	26.43	63.40	2.35
67.0	17.20	36.25	26.43	62.39	2.39
68.0	17.20	36.25	26.43	61.57	2.38
69.0	17.20	36.25	26.43	60.59	2.37
70.0	17.20	36.25	26.43	60.31	2.37
71.0	17.20	36.23	26.41	59.76	2.36
72.0	17.20	36.25	26.42	57.87	2.35
73.0	17.20	36.25	26.43	56.04	2.35

CAST 11

Position: 28 52.1 N, 89 09.9 W Time: 15:08 Z, 15 May 92 File: 9213616.cnv Depth: 111 m



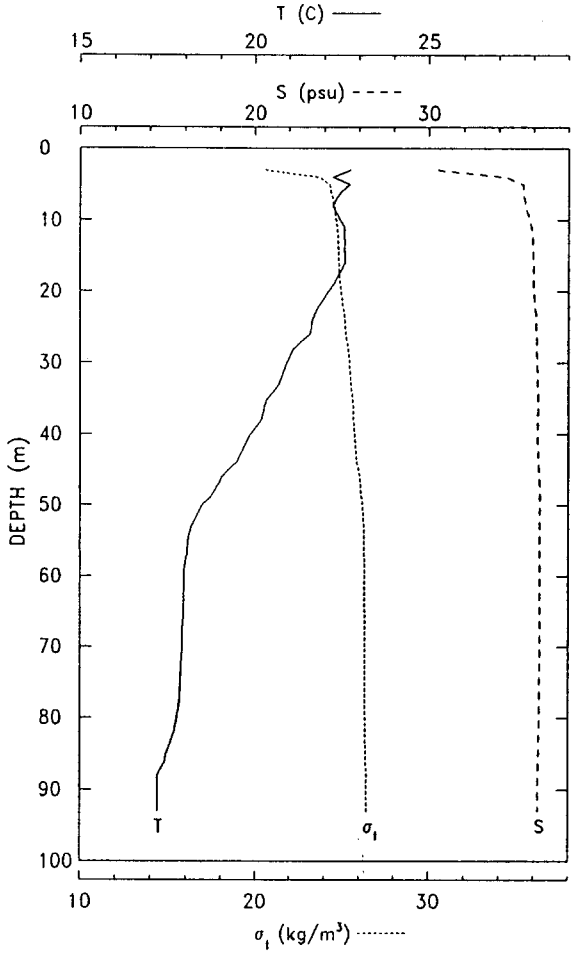


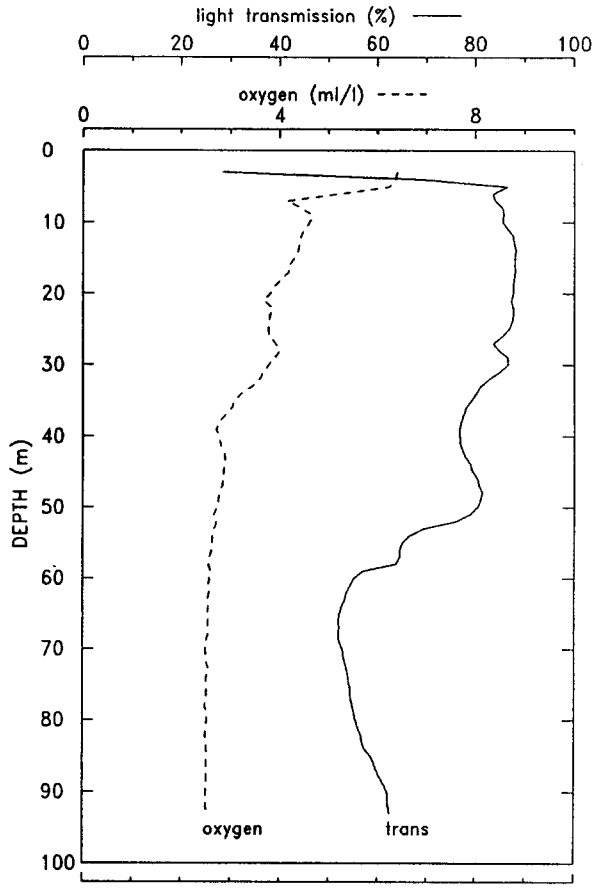
CAST 11

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
1.0	23.60	21.65	13.68	19.76	2.60
2.0	22.61	30.00	20.26	37.79	3.00
3.0	22.12	32.41	22.22	54.93	3.05
4.0	22.02	33.27	22.90	73.41	3.20
5.0	22.49	34.03	23.35	82.78	4.39
6.0	22.59	34.71	23.83	84.30	4.51
7.0	22.62	35.06	24.09	78.56	4.10
8.0	22.40	35.27	24.31	71.88	3.59
9.0	22.23	35.42	24.48	77.90	3.61
10.0	22.29	35.60	24.59	83.88	4.04
11.0	22.45	35.74	24.66	84.38	4.13
12.0	22.51	35.82	24.70	84.96	4.16
13.0	22.45	35.85	24.74	85.10	4.15
14.0	22.35	35.85	24.77	85.43	4.15
15.0	22.29	35.87	24.79	86.01	4.19
16.0	22.29	35.90	24.82	86.78	4.24
17.0	22.32	35.92	24.83	87.33	4.16
18.0	22.34	35.95	24.85	87.68	4.16
19.0	22.42	36.00	24.86	87.86	4.19
20.0	22.60	36.10	24.88	87.79	4.08
21.0	22.70	36.16	24.90	87.60	4.07
22.0	22.68	36.16	24.91	87.40	4.08
23.0	22.64	36.16	24.92	87.44	4.15
24.0	22.64	36.17	24.92	87.43	4.05
25.0	22.64	36.17	24.93	87.56	4.07
26.0	22.60	36.18	24.94	87.72	4.09
27.0	22.58	36.18	24.95	87.78	4.10
28.0	22.57	36.18	24.95	87.84	4.06
29.0	22.55	36.18	24.96	87.81	4.01
30.0	22.53	36.18	24.96	87.76	4.09
31.0	22.51	36.18	24.97	87.73	3.98
32.0	22.20	36.12	25.01	87.78	3.48
33.0	21.67	36.02	25.09	87.73	3.00
34.0	21.46	36.05	25.17	87.42	3.69
35.0	21.57	36.20	25.25	87.36	3.48
36.0	21.28	36.17	25.31	87.42	3.51
37.0	21.13	36.20	25.37	86.99	3.38
38.0	20.95	36.20	25.43	86.42	3.34
39.0	20.91	36.21	25.44	85.36	3.35
40.0	20.90	36.21	25.44	84.58	3.33
41.0	20.88	36.21	25.45	84.20	3.36
42.0	20.86	36.21	25.46	83.69	3.39
43.0	20.83	36.23	25.48	83.46	3.45
44.0	20.78	36.25	25.51	83.37	3.43
45.0	20.71	36.25	25.53	82.97	3.42
46.0	20.60	36.25	25.56	83.05	3.35
47.0	20.33	36.27	25.64	83.18	3.22
48.0	20.18	36.28	25.70	82.34	3.34
49.0	20.14	36.29	25.71	82.67	3.34
50.0	19.80	36.33	25.83	83.68	3.18
51.0	19.47	36.34	25.92	85.40	3.12
52.0	19.32	36.34	25.96	85.75	3.08
53.0	19.23	36.34	25.99	85.81	3.03
54.0	19.13	36.34	26.01	85.32	3.02
55.0	19.09	36.34	26.02	84.92	2.99
56.0	19.05	36.34	26.04	84.51	2.99
57.0	19.01	36.34	26.04	84.24	2.93
58.0	18.98	36.34	26.05	84.00	2.92
59.0	18.97	36.34	26.05	83.76	2.93
60.0	18.91	36.34	26.07	83.66	2.91
61.0	18.86	36.34	26.08	83.41	2.90
62.0	18.85	36.34	26.09	83.27	2.88
63.0	18.83	36.34	26.09	83.06	2.89
64.0	18.83	36.34	26.09	83.14	2.86
65.0	18.78	36.34	26.11	83.11	2.81
66.0	18.61	36.35	26.15	82.94	2.77
67.0	18.48	36.34	26.18	82.28	2.85
68.0	18.44	36.34	26.19	81.93	2.74
69.0	18.28	36.34	26.23	81.61	2.69
70.0	18.16	36.33	26.25	80.21	2.70
71.0	18.12	36.33	26.26	78.53	2.70
72.0	18.09	36.33	26.27	77.33	2.69
73.0	18.07	36.33	26.27	76.76	2.66
74.0	18.03	36.32	26.28	76.05	2.64
75.0	18.00	36.32	26.29	75.13	2.60
76.0	17.95	36.32	26.30	74.15	2.56
77.0	17.88	36.31	26.31	72.61	2.54

CAST 12

Position: 28 57.1 N, 89 00.8 W Time: 16:44 Z, 15 May 92 File: 9213618.cnv Depth: 97 m



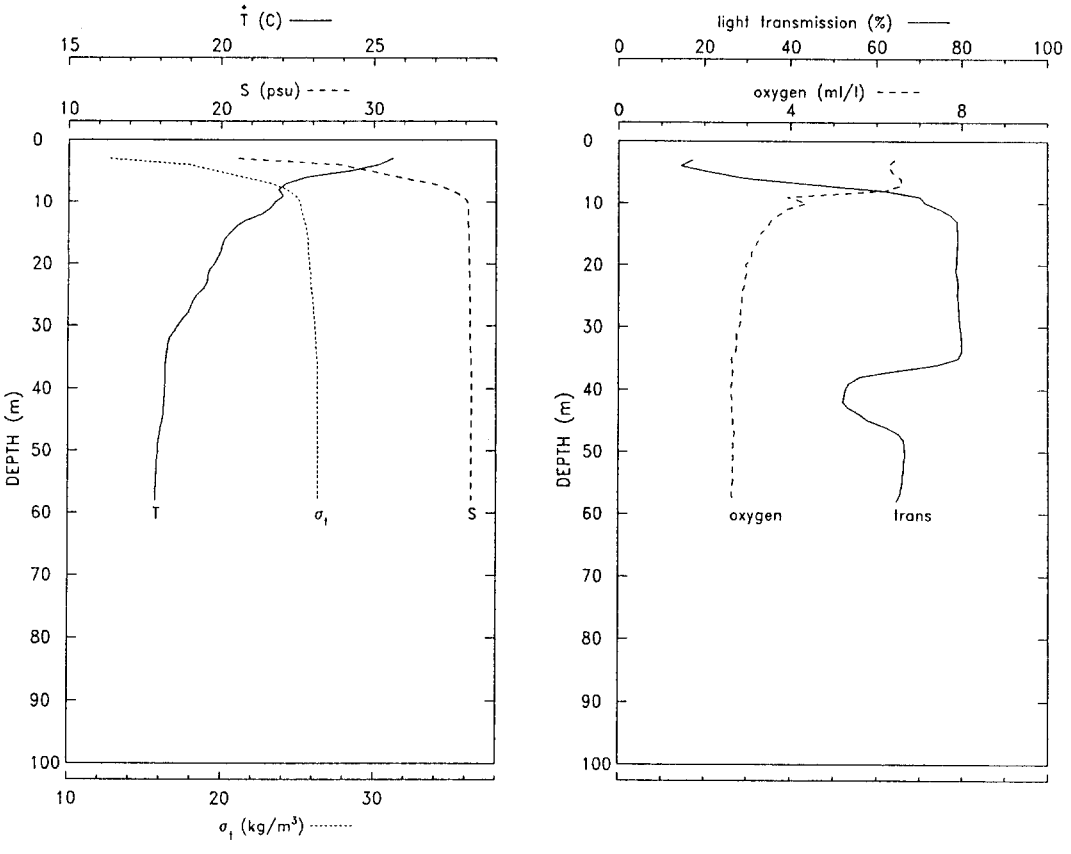


CAST 12

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	22.75	30.52	20.61	28.40	6.41
4.0	22.24	34.45	23.74	69.04	6.36
5.0	22.72	35.38	24.30	86.50	6.25
6.0	22.49	35.38	24.37	83.57	5.25
7.0	22.33	35.46	24.47	84.05	4.15
8.0	22.24	35.51	24.54	85.53	4.45
9.0	22.34	35.65	24.62	85.76	4.68
10.0	22.45	35.76	24.67	85.57	4.62
11.0	22.58	35.90	24.74	86.63	4.52
12.0	22.56	35.93	24.76	87.72	4.44
13.0	22.60	35.96	24.78	87.87	4.41
14.0	22.57	35.96	24.79	88.29	4.38
15.0	22.59	35.98	24.80	88.02	4.31
16.0	22.59	36.01	24.82	87.96	4.21
17.0	22.50	35.99	24.83	88.08	4.19
18.0	22.37	35.98	24.86	87.84	4.03
19.0	22.26	36.00	24.91	87.70	3.89
20.0	22.12	36.03	24.97	87.71	3.82
21.0	21.99	36.05	25.02	87.38	3.67
22.0	21.85	36.04	25.05	87.74	3.85
23.0	21.74	36.13	25.15	87.80	3.81
24.0	21.65	36.12	25.17	87.44	3.78
25.0	21.62	36.14	25.19	86.86	3.77
26.0	21.58	36.18	25.23	85.46	3.79
27.0	21.33	36.19	25.31	83.62	3.92
28.0	21.13	36.19	25.37	84.89	4.01
29.0	21.03	36.21	25.41	86.74	3.91
30.0	20.94	36.22	25.44	86.66	3.78
31.0	20.86	36.23	25.47	85.08	3.67
32.0	20.79	36.24	25.50	82.85	3.60
33.0	20.71	36.25	25.53	81.23	3.45
34.0	20.56	36.26	25.57	80.33	3.23
35.0	20.37	36.26	25.62	79.33	3.07
36.0	20.29	36.26	25.65	78.20	3.03
37.0	20.24	36.25	25.65	77.72	2.91
38.0	20.19	36.25	25.67	77.26	2.78
39.0	20.04	36.25	25.71	76.90	2.72
40.0	19.88	36.24	25.74	76.95	2.77
41.0	19.77	36.24	25.77	76.97	2.80
42.0	19.67	36.25	25.81	77.55	2.86
43.0	19.57	36.27	25.84	78.18	2.90
44.0	19.48	36.28	25.88	79.15	2.88
45.0	19.24	36.31	25.97	79.58	2.86
46.0	19.05	36.35	26.04	80.54	2.86
47.0	18.96	36.37	26.08	80.92	2.84
48.0	18.83	36.38	26.12	81.62	2.78
49.0	18.70	36.38	26.15	81.17	2.76
50.0	18.49	36.38	26.21	80.54	2.75
51.0	18.38	36.37	26.23	79.04	2.68
52.0	18.28	36.37	26.25	76.19	2.73
53.0	18.17	36.37	26.28	69.68	2.68
54.0	18.12	36.37	26.29	66.65	2.66
55.0	18.08	36.37	26.30	65.14	2.64
56.0	18.06	36.36	26.30	64.53	2.64
57.0	18.05	36.36	26.30	64.53	2.59
58.0	18.01	36.36	26.32	63.81	2.57
59.0	17.98	36.37	26.33	56.96	2.61
60.0	17.98	36.37	26.33	55.22	2.58
61.0	17.97	36.37	26.33	54.46	2.57
62.0	17.97	36.37	26.33	53.70	2.58
63.0	17.97	36.37	26.33	53.36	2.55
64.0	17.96	36.37	26.33	52.68	2.56
65.0	17.95	36.37	26.33	52.27	2.55
66.0	17.94	36.37	26.33	52.04	2.56
67.0	17.93	36.37	26.34	52.27	2.55
68.0	17.93	36.37	26.34	52.03	2.56
69.0	17.92	36.37	26.34	52.25	2.52
70.0	17.92	36.36	26.34	52.81	2.51
71.0	17.90	36.36	26.34	53.08	2.53
72.0	17.89	36.36	26.34	53.43	2.53
73.0	17.89	36.36	26.34	53.81	2.58
74.0	17.88	36.36	26.35	54.04	2.52
75.0	17.87	36.36	26.35	54.29	2.51
76.0	17.86	36.36	26.35	54.49	2.52
77.0	17.84	36.36	26.35	54.56	2.53
78.0	17.83	36.35	26.35	54.94	2.50
79.0	17.80	36.35	26.36	55.27	2.53
80.0	17.77	36.35	26.36	55.61	2.53
81.0	17.72	36.34	26.37	56.02	2.51
82.0	17.69	36.34	26.37	56.64	2.51
83.0	17.62	36.33	26.38	56.88	2.51
84.0	17.54	36.32	26.40	57.37	2.53
85.0	17.46	36.31	26.41	58.63	2.55
86.0	17.44	36.30	26.41	59.37	2.53
87.0	17.32	36.29	26.43	59.94	2.53
88.0	17.21	36.27	26.44	60.59	2.52
89.0	17.22	36.27	26.44	61.41	2.52
90.0	17.22	36.27	26.44	62.05	2.52
91.0	17.21	36.27	26.44	62.23	2.52
92.0	17.21	36.27	26.44	62.28	2.51
93.0	17.21	36.27	26.44	62.53	2.53

CAST 13

Position: 29 04.0 N, 88 57.1 W Time: 18:08 Z, 15 May 92 File: 9213620.cnv Depth: 61 m



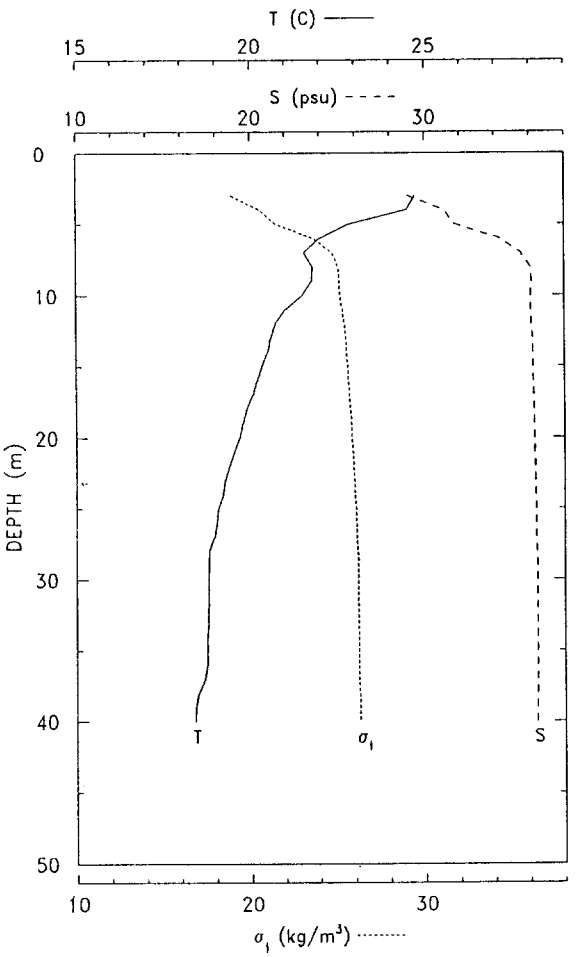
CAST 13

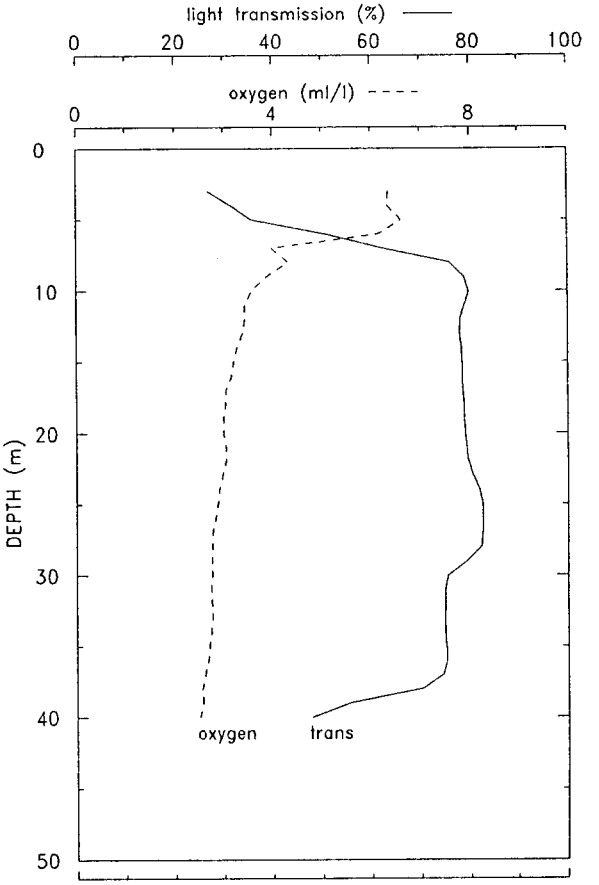
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.61	21.11	12.71	17.34	6.42
4.0	25.15	27.86	17.91	14.49	6.26
5.0	24.20	29.80	19.66	21.49	6.36
6.0	22.78	31.70	21.49	29.79	6.56
7.0	22.13	33.82	23.28	45.54	6.60
8.0	21.87	35.06	24.30	61.70	6.17
9.0	22.03	35.84	24.85	70.14	3.92
10.0	21.76	36.14	25.15	71.31	4.37
11.0	21.61	36.19	25.23	74.84	3.92
12.0	21.33	36.17	25.30	77.36	3.71
13.0	20.81	36.15	25.43	78.87	3.54
14.0	20.49	36.18	25.54	78.82	3.46
15.0	20.30	36.21	25.61	79.05	3.32
16.0	20.12	36.23	25.67	79.10	3.28
17.0	20.04	36.22	25.69	79.05	3.19
18.0	19.99	36.23	25.70	78.86	3.12
19.0	19.90	36.23	25.73	78.75	3.11
20.0	19.79	36.24	25.76	78.78	2.97
21.0	19.62	36.26	25.82	78.60	3.02
22.0	19.55	36.26	25.84	78.84	2.96
23.0	19.53	36.26	25.85	79.04	2.98
24.0	19.43	36.27	25.88	79.01	2.90
25.0	19.21	36.29	25.96	78.94	2.89
26.0	19.06	36.30	26.00	79.15	2.89
27.0	18.98	36.30	26.02	79.22	2.86
28.0	18.90	36.30	26.04	79.28	2.86
29.0	18.72	36.30	26.09	79.43	2.86
30.0	18.59	36.30	26.12	79.49	2.82

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
31.0	18.45	36.30	26.15	79.73	2.77
32.0	18.31	36.30	26.19	79.88	2.76
33.0	18.26	36.32	26.22	79.90	2.77
34.0	18.24	36.34	26.24	79.90	2.74
35.0	18.22	36.36	26.26	79.14	2.65
36.0	18.19	36.39	26.29	74.27	2.67
37.0	18.18	36.39	26.30	64.46	2.68
38.0	18.17	36.39	26.30	55.95	2.66
39.0	18.17	36.39	26.30	53.61	2.66
40.0	18.17	36.39	26.30	52.70	2.63
41.0	18.16	36.39	26.30	52.43	2.64
42.0	18.15	36.39	26.30	52.12	2.67
43.0	18.13	36.39	26.30	53.48	2.65
44.0	18.12	36.39	26.30	56.03	2.65
45.0	18.10	36.38	26.31	58.00	2.68
46.0	18.04	36.38	26.32	61.83	2.68
47.0	18.01	36.38	26.33	64.83	2.72
48.0	17.99	36.38	26.33	66.06	2.66
49.0	17.95	36.37	26.34	66.37	2.69
50.0	17.95	36.37	26.34	66.44	2.67
51.0	17.94	36.37	26.34	66.45	2.69
52.0	17.91	36.37	26.34	66.23	2.66
53.0	17.91	36.37	26.34	66.15	2.67
54.0	17.90	36.37	26.35	66.01	2.67
55.0	17.89	36.37	26.35	65.95	2.67
56.0	17.87	36.36	26.35	65.53	2.64
57.0	17.87	36.36	26.35	65.29	2.65
58.0	17.87	36.36	26.35	64.60	2.67

CAST 14

Position: 29 12.1 N, 88 54.1 W Time: 19:28 Z, 15 May 92 File: 9213622.cnv Depth: 45 m





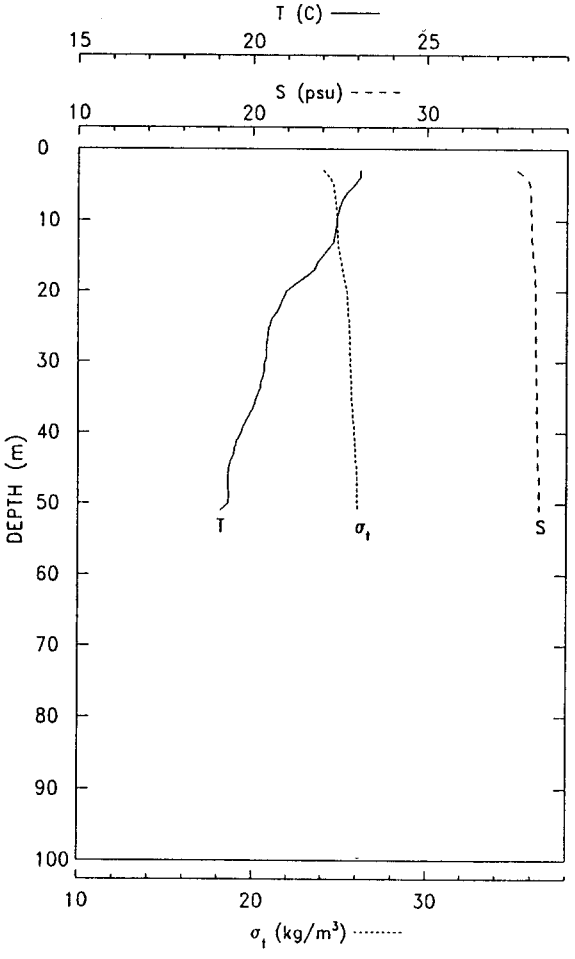
CAST 14

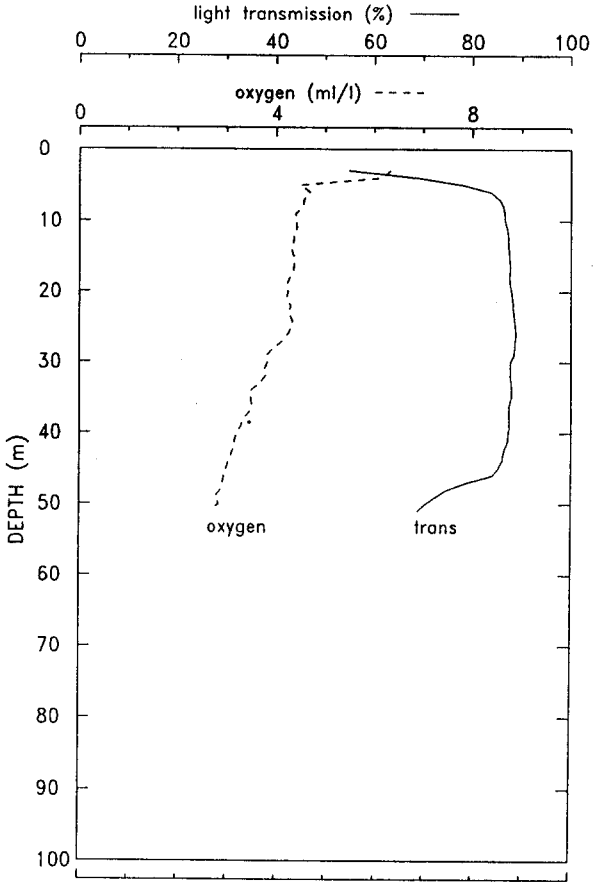
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.73	29.05	18.93	26.89	6.37
4.0	24.49	31.14	20.58	31.63	6.34
5.0	22.84	31.73	21.50	35.91	6.62
6.0	22.01	34.31	23.69	50.73	6.17
7.0	21.56	35.52	24.74	62.26	3.99
8.0	21.81	36.07	25.08	75.93	4.33
9.0	21.79	36.14	25.15	78.85	3.88
10.0	21.51	36.09	25.18	79.79	3.57
11.0	21.03	36.07	25.30	78.93	3.45
12.0	20.72	36.12	25.42	78.02	3.44
13.0	20.60	36.18	25.50	77.87	3.40
14.0	20.51	36.20	25.54	78.26	3.28
15.0	20.34	36.22	25.60	78.45	3.21
16.0	20.19	36.23	25.65	78.48	3.17
17.0	20.08	36.24	25.69	78.60	3.05
18.0	19.90	36.26	25.76	78.89	3.04
19.0	19.78	36.28	25.80	78.84	3.00
20.0	19.69	36.29	25.83	79.06	3.00
21.0	19.54	36.31	25.88	79.37	3.05

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
22.0	19.40	36.31	25.92	79.75	3.05
23.0	19.28	36.32	25.96	80.62	2.97
24.0	19.21	36.35	26.00	81.89	2.91
25.0	19.07	36.38	26.06	82.62	2.88
26.0	19.04	36.38	26.07	82.58	2.83
27.0	18.97	36.39	26.09	82.54	2.76
28.0	18.82	36.41	26.15	82.33	2.76
29.0	18.80	36.43	26.17	79.38	2.76
30.0	18.78	36.43	26.17	75.50	2.76
31.0	18.78	36.43	26.17	74.85	2.73
32.0	18.78	36.43	26.17	74.89	2.75
33.0	18.78	36.43	26.17	74.72	2.75
34.0	18.76	36.43	26.18	74.86	2.74
35.0	18.74	36.43	26.18	75.13	2.70
36.0	18.74	36.43	26.18	75.15	2.67
37.0	18.68	36.43	26.19	74.45	2.60
38.0	18.50	36.42	26.24	70.42	2.54
39.0	18.42	36.41	26.25	55.78	2.55
40.0	18.40	36.41	26.25	47.87	2.50

CAST 15

Position: 29 20.3 N, 88 44.9 W Time: 21:00 Z, 15 May 92 File: 9213624.cnv Depth: 54 m



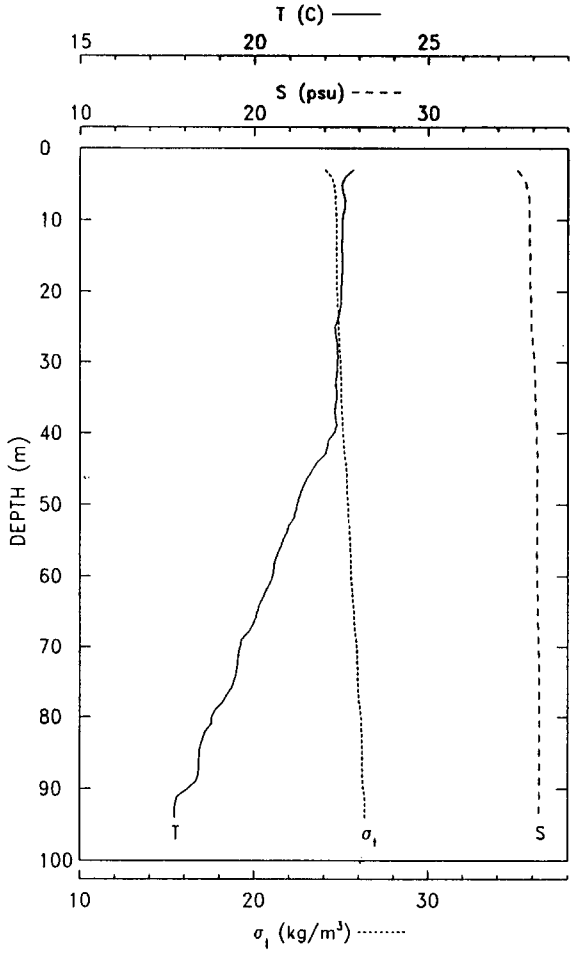


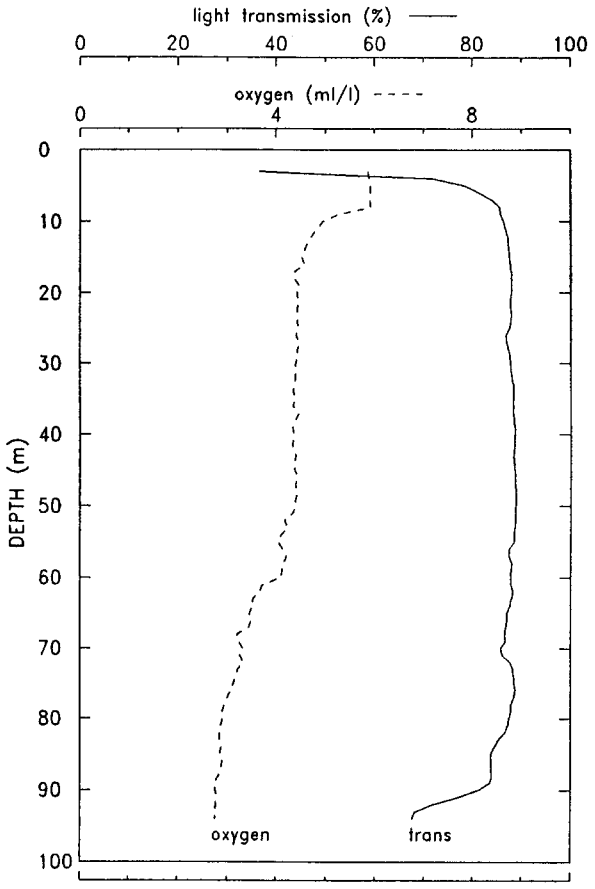
CAST 15

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.10	35.19	24.05	54.88	6.33
4.0	23.09	35.73	24.46	69.00	6.15
5.0	22.93	35.89	24.63	78.41	4.49
6.0	22.73	35.90	24.70	83.94	4.69
7.0	22.60	35.92	24.75	85.58	4.57
8.0	22.51	35.95	24.80	86.25	4.55
9.0	22.45	35.97	24.83	86.58	4.39
10.0	22.41	35.98	24.85	86.63	4.40
11.0	22.40	36.00	24.86	87.05	4.42
12.0	22.36	36.00	24.88	87.36	4.38
13.0	22.34	36.02	24.90	87.34	4.36
14.0	22.18	36.05	24.97	87.42	4.31
15.0	22.02	36.08	25.03	87.55	4.36
16.0	21.85	36.12	25.11	87.71	4.37
17.0	21.77	36.18	25.18	87.72	4.35
18.0	21.53	36.19	25.26	87.51	4.27
19.0	21.23	36.20	25.35	87.75	4.22
20.0	20.97	36.22	25.43	88.02	4.25
21.0	20.88	36.22	25.45	88.23	4.21
22.0	20.79	36.21	25.47	88.33	4.30
23.0	20.69	36.21	25.50	88.44	4.25
24.0	20.53	36.20	25.54	88.54	4.33
25.0	20.48	36.22	25.56	88.77	4.31
26.0	20.43	36.23	25.59	88.88	4.25
27.0	20.41	36.23	25.59	88.73	4.14
28.0	20.39	36.23	25.59	88.69	3.95
29.0	20.40	36.25	25.61	88.48	3.82
30.0	20.34	36.26	25.64	87.81	3.83
31.0	20.32	36.27	25.64	87.77	3.77
32.0	20.30	36.27	25.65	87.80	3.79
33.0	20.22	36.28	25.68	87.92	3.67
34.0	20.19	36.28	25.69	88.12	3.50
35.0	20.12	36.29	25.72	88.03	3.50
36.0	20.05	36.30	25.74	87.63	3.51
37.0	19.97	36.29	25.76	87.56	3.48
38.0	19.86	36.29	25.79	87.55	3.35
39.0	19.74	36.30	25.83	87.55	3.30
40.0	19.68	36.31	25.84	87.40	3.22
41.0	19.57	36.32	25.89	87.27	3.16
42.0	19.50	36.34	25.91	86.75	3.16
43.0	19.47	36.34	25.92	86.33	3.10
44.0	19.39	36.35	25.95	86.11	3.05
45.0	19.33	36.37	25.99	85.37	3.00
46.0	19.30	36.41	26.02	84.17	2.95
47.0	19.31	36.43	26.03	78.93	2.92
48.0	19.32	36.43	26.04	74.91	2.89
49.0	19.34	36.44	26.04	72.55	2.77
50.0	19.31	36.44	26.04	70.48	2.85
51.0	19.08	36.44	26.10	68.89	2.67

CAST 16

Position: 29 05.2 N, 88 45.0 W Time: 23:08 Z, 15 May 92 File: 9213626.cnv Depth: 100 m



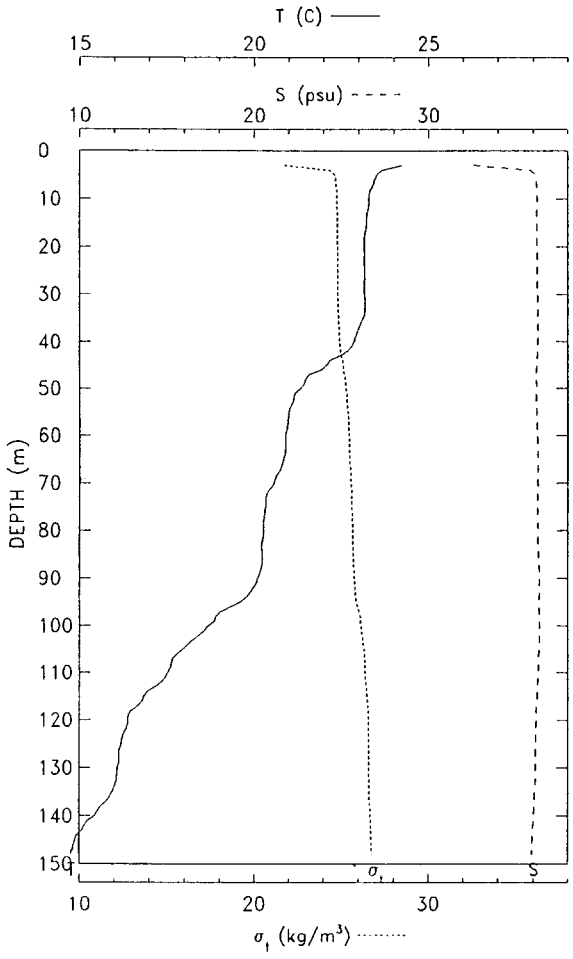


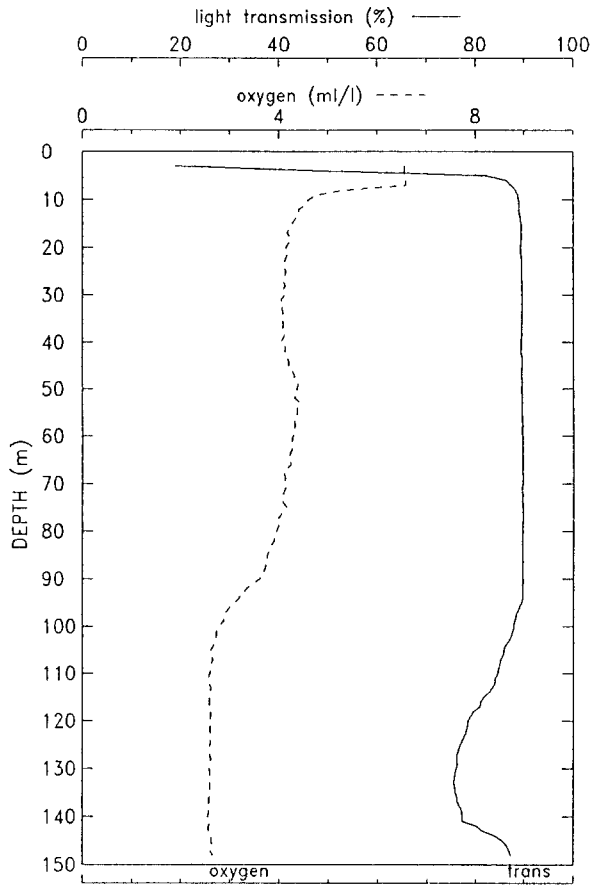
CAST 16

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	22.84	35.10	24.06	36.70	5.87
4.0	22.60	35.49	24.42	71.93	5.90
5.0	22.50	35.62	24.55	78.67	5.92
6.0	22.54	35.71	24.61	81.52	5.93
7.0	22.62	35.78	24.64	84.09	5.92
8.0	22.61	35.80	24.66	85.65	5.93
9.0	22.56	35.80	24.67	85.78	5.26
10.0	22.52	35.81	24.68	86.36	4.94
11.0	22.53	35.82	24.69	86.76	4.84
12.0	22.52	35.82	24.70	87.20	4.74
13.0	22.50	35.82	24.70	87.38	4.65
14.0	22.51	35.82	24.70	87.56	4.59
15.0	22.53	35.83	24.70	87.60	4.53
16.0	22.53	35.84	24.71	87.77	4.59
17.0	22.52	35.84	24.71	87.96	4.39
18.0	22.51	35.85	24.72	87.98	4.39
19.0	22.50	35.85	24.72	87.96	4.50
20.0	22.49	35.87	24.74	88.01	4.43
21.0	22.49	35.90	24.76	87.80	4.47
22.0	22.48	35.92	24.78	87.88	4.45
23.0	22.44	35.93	24.80	88.04	4.44
24.0	22.39	35.93	24.82	87.89	4.44
25.0	22.30	35.93	24.84	87.59	4.47
26.0	22.34	35.96	24.86	86.81	4.42
27.0	22.37	36.00	24.88	87.05	4.49
28.0	22.39	36.04	24.90	87.41	4.45
29.0	22.40	36.08	24.93	87.73	4.45
30.0	22.38	36.10	24.95	87.90	4.42
31.0	22.38	36.12	24.96	87.93	4.41
32.0	22.36	36.13	24.97	88.14	4.41
33.0	22.34	36.12	24.98	88.50	4.39
34.0	22.36	36.14	24.98	88.55	4.38
35.0	22.37	36.15	24.99	88.48	4.40
36.0	22.33	36.15	25.00	88.42	4.36
37.0	22.31	36.16	25.01	88.43	4.48
38.0	22.33	36.20	25.04	88.59	4.40
39.0	22.35	36.24	25.06	88.74	4.35
40.0	22.28	36.24	25.08	88.79	4.38
41.0	22.12	36.22	25.11	88.71	4.37
42.0	22.09	36.24	25.14	88.62	4.36
43.0	22.03	36.27	25.18	88.47	4.43
44.0	21.83	36.27	25.23	88.65	4.39
45.0	21.68	36.28	25.28	88.73	4.40
46.0	21.56	36.26	25.30	88.74	4.46
47.0	21.45	36.24	25.32	88.83	4.41
48.0	21.35	36.24	25.34	88.94	4.44
49.0	21.29	36.24	25.36	88.93	4.42
50.0	21.23	36.24	25.37	88.91	4.40
51.0	21.18	36.24	25.39	88.83	4.36
52.0	21.13	36.25	25.41	88.82	4.18
53.0	20.99	36.27	25.47	88.75	4.26
54.0	20.94	36.28	25.48	88.61	4.13
55.0	20.83	36.27	25.51	88.62	4.06
56.0	20.76	36.26	25.52	87.57	4.16
57.0	20.66	36.25	25.54	87.53	4.23
58.0	20.58	36.24	25.55	88.15	4.15
59.0	20.57	36.25	25.57	87.87	4.14
60.0	20.53	36.26	25.58	87.86	4.10
61.0	20.46	36.27	25.61	87.87	3.73
62.0	20.36	36.29	25.65	88.44	3.67
63.0	20.26	36.29	25.68	88.00	3.53
64.0	20.16	36.30	25.71	87.73	3.54
65.0	20.10	36.30	25.73	87.09	3.47
66.0	20.06	36.30	25.74	87.08	3.50
67.0	19.97	36.31	25.77	86.82	3.45
68.0	19.84	36.32	25.82	86.65	3.21
69.0	19.64	36.33	25.87	86.82	3.24
70.0	19.61	36.35	25.89	85.78	3.33
71.0	19.56	36.37	25.92	86.21	3.27
72.0	19.55	36.38	25.93	87.74	3.34
73.0	19.52	36.37	25.94	88.33	3.23
74.0	19.49	36.37	25.94	88.46	3.19
75.0	19.43	36.37	25.96	88.48	3.13
76.0	19.36	36.36	25.97	88.90	3.09
77.0	19.22	36.36	26.01	88.52	3.01
78.0	19.09	36.37	26.05	87.90	2.95
79.0	18.89	36.39	26.11	87.86	2.90
80.0	18.78	36.40	26.15	87.48	2.91
81.0	18.78	36.41	26.15	87.21	2.87
82.0	18.61	36.38	26.18	86.69	2.85
83.0	18.54	36.37	26.19	85.36	2.85
84.0	18.46	36.37	26.21	84.59	2.89
85.0	18.44	36.37	26.21	83.83	2.86
86.0	18.42	36.37	26.22	83.79	2.91
87.0	18.42	36.37	26.22	83.95	2.89
88.0	18.40	36.37	26.22	84.04	2.83
89.0	18.33	36.37	26.24	83.62	2.74
90.0	18.10	36.37	26.30	81.27	2.77
91.0	17.81	36.37	26.37	77.09	2.80
92.0	17.73	36.36	26.38	71.84	2.77
93.0	17.72	36.36	26.38	68.27	2.79
94.0	17.72	36.35	26.38	67.65	2.75

CAST 17

Position: 28 50.0 N, 88 56.0 W Time: 01:49 Z, 16 May 92 File: 9213701.cnv Depth: 450 m





CAST 17

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.23	32.60	21.76	18.84	6.57
4.0	23.66	35.84	24.38	48.42	6.55
5.0	23.51	36.16	24.67	82.15	6.57
6.0	23.45	36.19	24.70	86.52	6.58
7.0	23.42	36.20	24.73	87.43	6.58
8.0	23.34	36.22	24.76	88.30	5.37
9.0	23.29	36.22	24.78	88.79	4.77
10.0	23.30	36.23	24.78	88.95	4.61
11.0	23.30	36.23	24.78	88.92	4.55
12.0	23.28	36.23	24.79	89.00	4.42
13.0	23.24	36.22	24.79	89.18	4.40
14.0	23.23	36.22	24.79	89.33	4.35
15.0	23.23	36.22	24.79	89.39	4.27
16.0	23.21	36.22	24.80	89.40	4.23
17.0	23.18	36.21	24.80	89.49	4.17
18.0	23.17	36.21	24.81	89.44	4.24
19.0	23.16	36.22	24.81	89.41	4.21
20.0	23.16	36.22	24.82	89.34	4.14
21.0	23.17	36.23	24.82	89.37	4.19

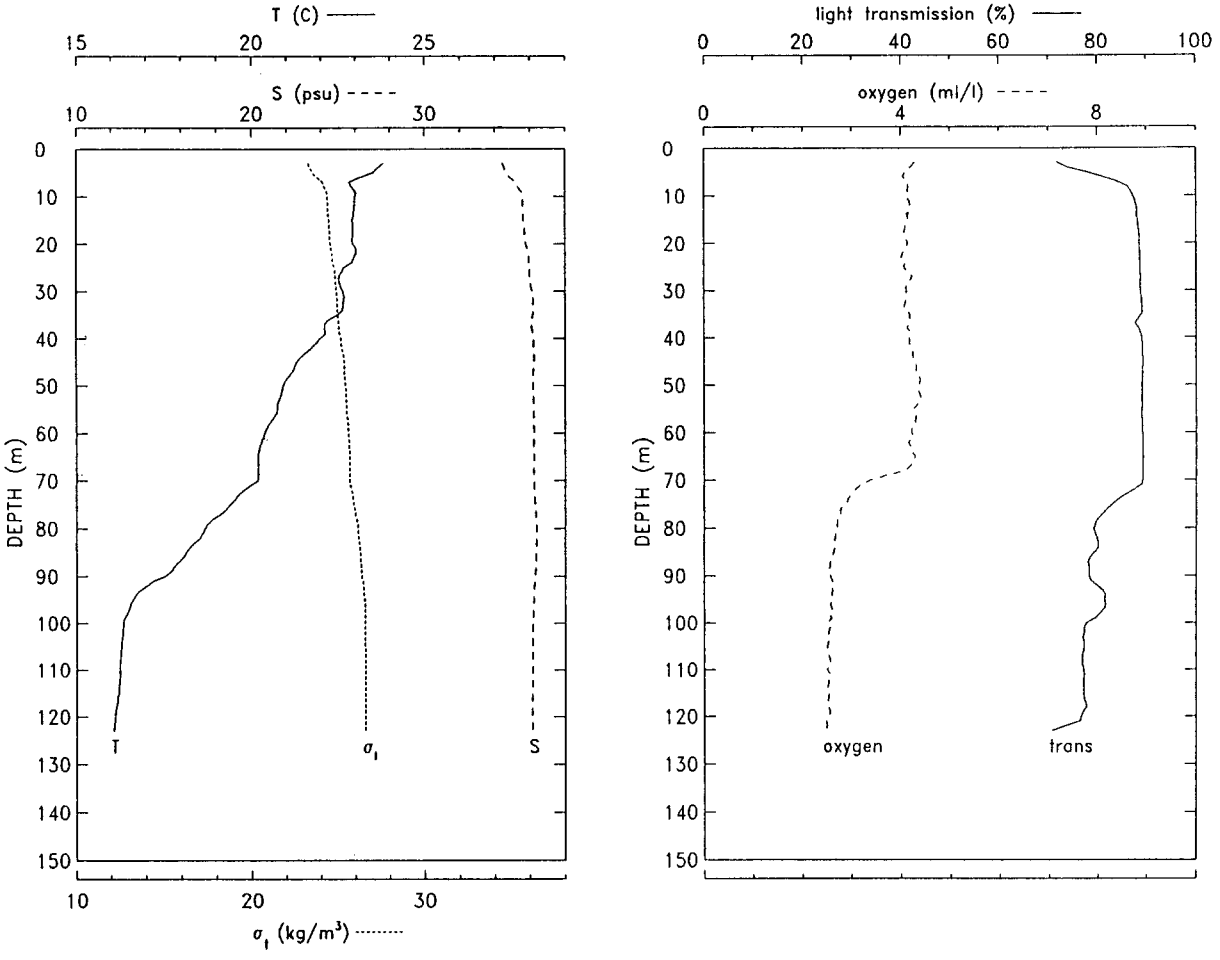
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
22.0	23.17	36.23	24.82	89.52	4.15
23.0	23.16	36.23	24.82	89.53	4.11
24.0	23.17	36.24	24.82	89.54	4.10
25.0	23.17	36.24	24.82	89.53	4.15
26.0	23.17	36.24	24.83	89.52	4.12
27.0	23.17	36.24	24.83	89.61	4.10
28.0	23.16	36.24	24.83	89.64	4.13
29.0	23.16	36.24	24.83	89.62	4.09
30.0	23.17	36.25	24.84	89.62	4.12
31.0	23.18	36.26	24.84	89.69	4.04
32.0	23.19	36.28	24.85	89.63	4.10
33.0	23.20	36.29	24.85	89.69	4.07
34.0	23.18	36.29	24.86	89.65	4.09
35.0	23.14	36.30	24.88	89.60	4.06
36.0	23.07	36.29	24.89	89.61	4.09
37.0	23.02	36.28	24.90	89.56	4.08
38.0	22.96	36.28	24.92	89.53	4.13
39.0	22.92	36.28	24.93	89.50	4.10
40.0	22.88	36.28	24.94	89.41	4.04

continued on next page

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
41.0	22.81	36.28	24.96	89.46	4.14
42.0	22.69	36.27	24.99	89.34	4.12
43.0	22.49	36.26	25.04	89.60	4.17
44.0	22.19	36.25	25.12	89.60	4.20
45.0	22.11	36.24	25.14	89.67	4.20
46.0	21.96	36.23	25.16	89.57	4.26
47.0	21.61	36.19	25.23	89.50	4.32
48.0	21.50	36.18	25.26	89.59	4.32
49.0	21.45	36.21	25.29	89.60	4.41
50.0	21.35	36.20	25.31	89.50	4.37
51.0	21.18	36.19	25.35	89.59	4.35
52.0	21.16	36.19	25.35	89.62	4.34
53.0	21.12	36.19	25.37	89.59	4.45
54.0	21.05	36.20	25.39	89.63	4.38
55.0	21.01	36.21	25.41	89.63	4.38
56.0	21.01	36.23	25.43	89.65	4.35
57.0	20.99	36.23	25.44	89.67	4.33
58.0	20.97	36.24	25.45	89.71	4.34
59.0	20.94	36.24	25.46	89.65	4.30
60.0	20.91	36.25	25.47	89.67	4.29
61.0	20.90	36.26	25.48	89.74	4.27
62.0	20.91	36.28	25.49	89.75	4.27
63.0	20.91	36.29	25.50	89.71	4.26
64.0	20.90	36.29	25.51	89.72	4.22
65.0	20.85	36.28	25.52	89.74	4.22
66.0	20.82	36.29	25.53	89.78	4.25
67.0	20.77	36.30	25.55	89.73	4.13
68.0	20.69	36.29	25.56	89.77	4.11
69.0	20.61	36.28	25.58	89.81	4.14
70.0	20.57	36.29	25.59	89.79	4.11
71.0	20.49	36.29	25.62	89.64	4.14
72.0	20.39	36.27	25.63	89.70	4.10
73.0	20.34	36.26	25.64	89.71	4.08
74.0	20.34	36.26	25.63	89.77	4.09
75.0	20.34	36.26	25.63	89.77	4.16
76.0	20.32	36.26	25.64	89.79	4.08
77.0	20.29	36.26	25.65	89.80	4.02
78.0	20.28	36.28	25.67	89.78	3.96
79.0	20.28	36.28	25.67	89.75	4.00
80.0	20.28	36.29	25.67	89.73	3.95
81.0	20.28	36.29	25.67	89.68	3.95
82.0	20.25	36.29	25.68	89.68	3.91
83.0	20.23	36.30	25.70	89.68	3.84
84.0	20.24	36.32	25.70	89.67	3.83
85.0	20.24	36.33	25.72	89.68	3.77
86.0	20.24	36.34	25.72	89.67	3.78
87.0	20.24	36.35	25.73	89.70	3.74
88.0	20.21	36.36	25.75	89.69	3.72
89.0	20.16	36.36	25.76	89.74	3.65
90.0	20.11	36.37	25.78	89.79	3.62
91.0	20.07	36.37	25.79	89.77	3.49
92.0	19.98	36.37	25.81	89.76	3.36
93.0	19.90	36.37	25.84	89.72	3.26
94.0	19.78	36.36	25.86	89.68	3.20
95.0	19.63	36.35	25.89	89.58	3.11
96.0	19.33	36.33	25.95	89.09	3.00
97.0	19.05	36.36	26.05	88.63	2.93
98.0	18.92	36.39	26.10	88.32	2.87
99.0	18.87	36.39	26.11	88.05	2.87
100.0	18.69	36.38	26.16	87.95	2.79
101.0	18.58	36.39	26.19	87.70	2.73
102.0	18.42	36.38	26.22	87.44	2.74
103.0	18.25	36.37	26.26	86.96	2.71
104.0	18.11	36.36	26.29	86.25	2.68
105.0	17.97	36.35	26.32	85.91	2.62
106.0	17.80	36.33	26.34	85.80	2.63
107.0	17.67	36.32	26.37	85.31	2.67
108.0	17.64	36.32	26.37	85.08	2.62
109.0	17.61	36.31	26.38	84.88	2.62
110.0	17.54	36.31	26.39	84.70	2.60
111.0	17.47	36.30	26.40	84.18	2.58
112.0	17.36	36.29	26.42	84.12	2.58
113.0	17.17	36.27	26.45	83.62	2.63
114.0	16.95	36.24	26.48	82.96	2.62
115.0	16.85	36.23	26.50	81.76	2.60
116.0	16.82	36.23	26.50	81.14	2.60
117.0	16.68	36.21	26.52	80.98	2.61
118.0	16.49	36.19	26.55	79.69	2.63
119.0	16.41	36.18	26.56	79.14	2.62
120.0	16.39	36.18	26.56	78.57	2.61
121.0	16.38	36.17	26.56	78.48	2.62
122.0	16.35	36.17	26.57	78.22	2.60
123.0	16.27	36.16	26.58	77.86	2.62
124.0	16.23	36.15	26.58	77.43	2.62
125.0	16.20	36.15	26.59	76.98	2.61
126.0	16.16	36.14	26.59	76.60	2.58
127.0	16.13	36.14	26.59	76.28	2.59
128.0	16.14	36.14	26.59	76.22	2.62
129.0	16.14	36.14	26.59	76.27	2.62
130.0	16.10	36.13	26.60	76.07	2.59
131.0	16.08	36.13	26.60	75.84	2.60
132.0	16.07	36.13	26.60	75.74	2.60
133.0	16.05	36.12	26.60	75.56	2.61
134.0	16.00	36.12	26.61	75.82	2.60
135.0	15.95	36.11	26.61	75.79	2.61
136.0	15.87	36.09	26.62	76.23	2.59
137.0	15.77	36.08	26.63	76.28	2.58
138.0	15.61	36.06	26.65	76.81	2.59
139.0	15.51	36.04	26.66	77.13	2.58
140.0	15.46	36.03	26.67	77.30	2.55
141.0	15.25	36.00	26.69	77.23	2.62
142.0	15.15	35.99	26.70	80.21	2.57
143.0	15.08	35.98	26.71	81.39	2.57
144.0	14.93	35.96	26.73	83.98	2.64
145.0	14.88	35.95	26.74	85.55	2.63
146.0	14.84	35.95	26.74	86.51	2.65
147.0	14.81	35.94	26.74	86.97	2.60
148.0	14.75	35.93	26.75	87.30	2.66

CAST 18

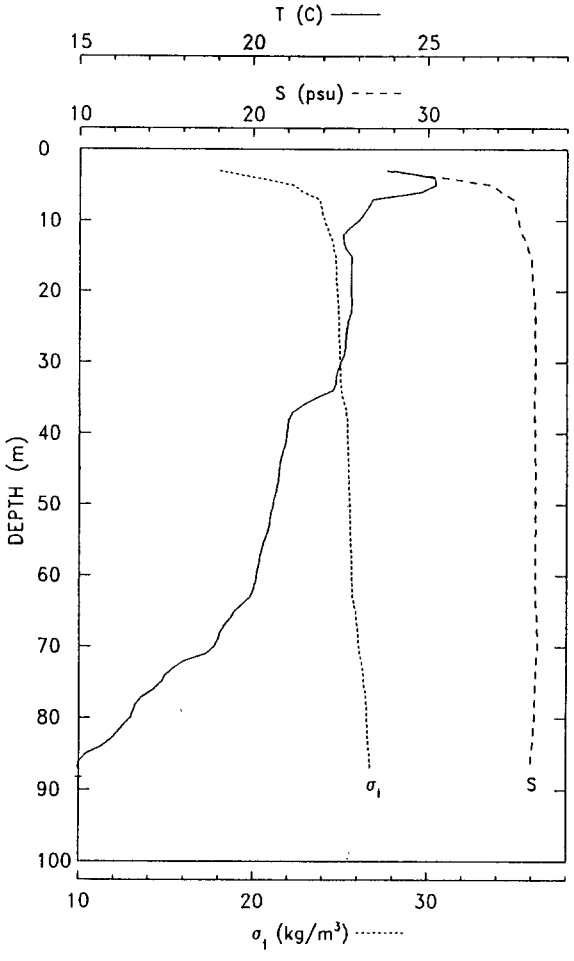
Position: 28 44.1 N, 89 18.7 W Time: 05:00 Z, 16 May 92 File: 9213703.cnv Depth: 129 m

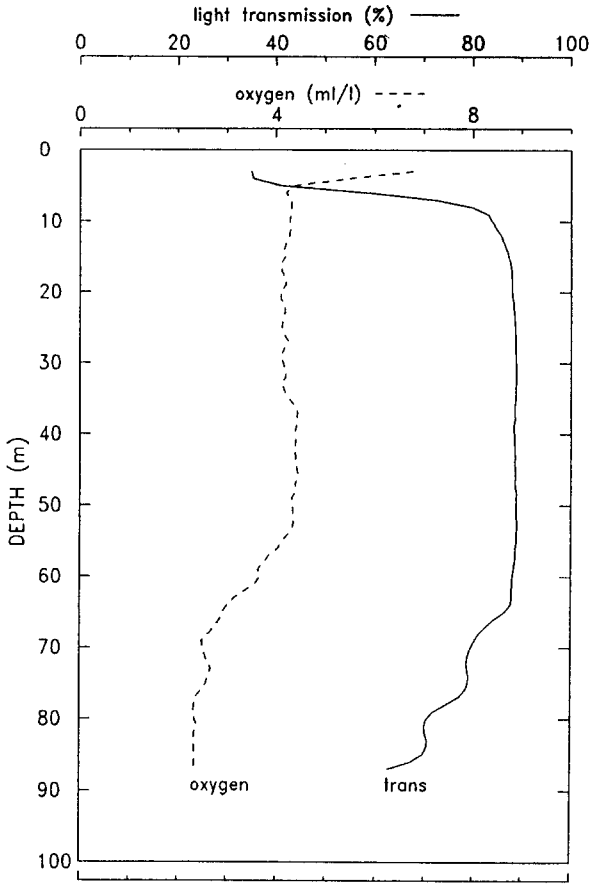


Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.81	34.44	23.27	71.79	4.28
4.0	23.65	34.57	23.42	73.74	4.21
5.0	23.51	34.65	23.52	77.60	4.10
6.0	23.13	34.87	23.80	80.98	4.05
7.0	22.82	35.20	24.14	83.95	4.13
8.0	22.90	35.33	24.22	86.19	4.16
9.0	23.02	35.55	24.35	86.83	4.14
10.0	23.00	35.57	24.37	87.30	4.13
11.0	22.98	35.61	24.40	87.71	4.18
12.0	22.97	35.61	24.41	87.96	4.19
13.0	22.96	35.62	24.42	88.19	4.18
14.0	22.95	35.63	24.43	88.13	4.14
15.0	22.91	35.65	24.45	88.24	4.15
16.0	22.94	35.70	24.48	88.33	4.11
17.0	22.94	35.71	24.49	88.44	4.08
18.0	22.94	35.73	24.51	88.57	4.07
19.0	22.91	35.75	24.53	88.56	4.12
20.0	22.93	35.80	24.56	88.63	4.15
21.0	23.03	35.89	24.60	88.59	4.11
22.0	23.02	35.92	24.63	88.69	4.05
23.0	22.95	35.96	24.68	88.69	4.01
24.0	22.89	35.96	24.70	88.77	4.10
25.0	22.66	36.00	24.79	88.81	4.06
26.0	22.60	35.99	24.80	88.75	4.12
27.0	22.53	35.99	24.82	88.90	4.24
28.0	22.53	36.02	24.85	88.88	4.18
29.0	22.57	36.09	24.88	88.80	4.12
30.0	22.65	36.16	24.91	88.90	4.13
31.0	22.68	36.19	24.93	88.97	4.11
32.0	22.65	36.19	24.94	89.07	4.10
33.0	22.65	36.20	24.95	89.12	4.08
34.0	22.63	36.20	24.95	89.16	4.07
35.0	22.47	36.18	24.98	89.14	4.19
36.0	22.24	36.12	25.01	88.41	4.20
37.0	22.11	36.10	25.03	87.73	4.18
38.0	22.11	36.13	25.05	88.46	4.13
39.0	22.14	36.20	25.09	88.83	4.21
40.0	21.97	36.21	25.15	89.05	4.19
41.0	21.87	36.21	25.17	89.21	4.18
42.0	21.72	36.22	25.22	89.21	4.22
43.0	21.55	36.24	25.28	89.23	4.25
44.0	21.42	36.25	25.33	89.30	4.25
45.0	21.30	36.24	25.36	89.33	4.33
46.0	21.24	36.23	25.37	89.35	4.32
47.0	21.18	36.22	25.37	89.28	4.32
48.0	21.08	36.19	25.38	89.31	4.36
49.0	20.96	36.18	25.40	89.26	4.40
50.0	20.92	36.18	25.42	89.18	4.38
51.0	20.88	36.19	25.44	89.16	4.35
52.0	20.85	36.20	25.45	89.12	4.39
53.0	20.81	36.22	25.48	89.12	4.43
54.0	20.75	36.22	25.49	89.11	4.35
55.0	20.75	36.22	25.50	89.14	4.27
56.0	20.70	36.22	25.51	89.09	4.31
57.0	20.62	36.23	25.53	89.13	4.31
58.0	20.51	36.23	25.56	89.12	4.30
59.0	20.44	36.23	25.58	89.17	4.21
60.0	20.38	36.23	25.60	89.20	4.22
61.0	20.33	36.23	25.61	89.23	4.27
62.0	20.28	36.22	25.62	89.24	4.16
63.0	20.22	36.23	25.64	89.28	4.20
64.0	20.21	36.23	25.64	89.28	4.21
65.0	20.20	36.23	25.64	89.33	4.30
66.0	20.20	36.23	25.64	89.21	4.24
67.0	20.20	36.23	25.64	89.23	4.20
68.0	20.20	36.23	25.64	89.24	4.10
69.0	20.20	36.23	25.64	89.28	3.71
70.0	20.18	36.23	25.65	89.28	3.39
71.0	19.97	36.24	25.72	89.06	3.19
72.0	19.78	36.26	25.78	87.47	3.08
73.0	19.62	36.27	25.83	85.80	3.01
74.0	19.52	36.29	25.87	84.31	2.93
75.0	19.40	36.30	25.91	83.08	2.89
76.0	19.28	36.31	25.95	82.00	2.78
77.0	19.12	36.33	26.01	81.14	2.78
78.0	18.90	36.35	26.08	80.20	2.71
79.0	18.77	36.37	26.13	79.57	2.70
80.0	18.68	36.38	26.16	79.34	2.71
81.0	18.63	36.38	26.18	79.48	2.68
82.0	18.55	36.38	26.19	79.88	2.67
83.0	18.38	36.37	26.23	80.18	2.65
84.0	18.24	36.37	26.26	80.25	2.67
85.0	18.15	36.36	26.28	79.49	2.63
86.0	18.06	36.35	26.30	78.60	2.61
87.0	17.93	36.34	26.31	78.05	2.57
88.0	17.80	36.33	26.34	78.26	2.56
89.0	17.72	36.32	26.35	78.26	2.54
90.0	17.55	36.30	26.38	78.27	2.56
91.0	17.20	36.27	26.44	78.68	2.60
92.0	17.03	36.26	26.48	79.91	2.64
93.0	16.84	36.24	26.50	81.03	2.61
94.0	16.71	36.22	26.53	81.67	2.60
95.0	16.63	36.22	26.54	81.42	2.61
96.0	16.55	36.21	26.55	81.69	2.57
97.0	16.52	36.20	26.55	81.40	2.60
98.0	16.47	36.19	26.56	80.51	2.56
99.0	16.38	36.18	26.57	79.51	2.59
100.0	16.36	36.18	26.57	77.81	2.51
101.0	16.35	36.17	26.57	77.21	2.56
102.0	16.34	36.17	26.57	77.36	2.53
103.0	16.32	36.17	26.57	76.94	2.52
104.0	16.31	36.16	26.57	77.25	2.53
105.0	16.30	36.16	26.57	77.24	2.51
106.0	16.29	36.16	26.57	77.14	2.53
107.0	16.28	36.16	26.58	76.90	2.53
108.0	16.26	36.15	26.58	76.89	2.56
109.0	16.26	36.15	26.58	76.91	2.56
110.0	16.25	36.15	26.58	77.13	2.49
111.0	16.25	36.15	26.58	77.29	2.55
112.0	16.25	36.15	26.58	77.17	2.55
113.0	16.24	36.15	26.58	77.10	2.53
114.0	16.23	36.15	26.58	77.13	2.51
115.0	16.22	36.15	26.58	77.19	2.54
116.0	16.19	36.14	26.58	77.25	2.53
117.0	16.18	36.14	26.59	77.49	2.51
118.0	16.15	36.14	26.59	77.80	2.52
119.0	16.13	36.14	26.59	77.08	2.56
120.0	16.12	36.13	26.59	76.57	2.53
121.0	16.10	36.13	26.59	76.36	2.48
122.0	16.09	36.13	26.59	73.42	2.50
123.0	16.08	36.12	26.60	70.71	2.47

CAST 19

Position: 28 47.0 N, 89 31.1 W Time: 06:43 Z, 16 May 92 File: 9213705.cnw Depth: 89 m



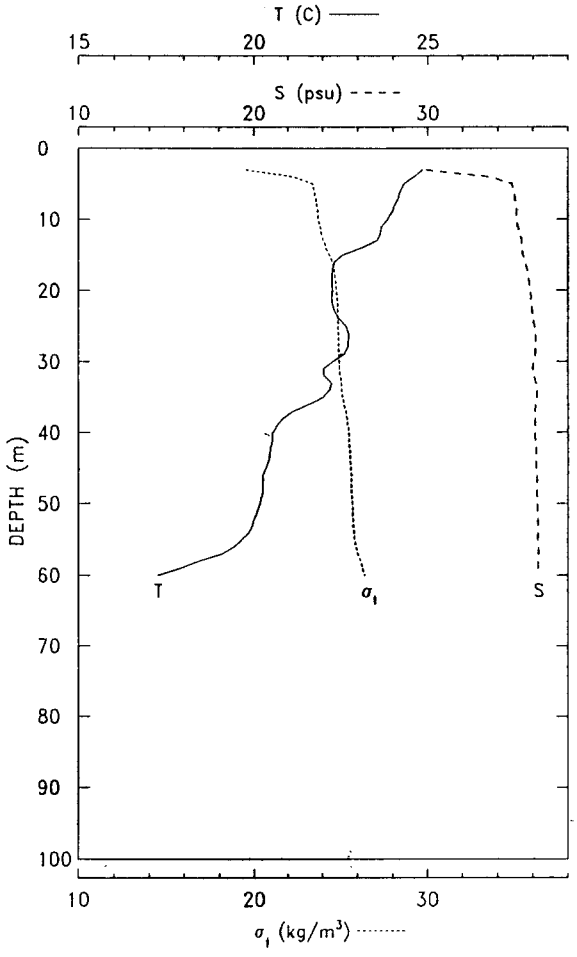


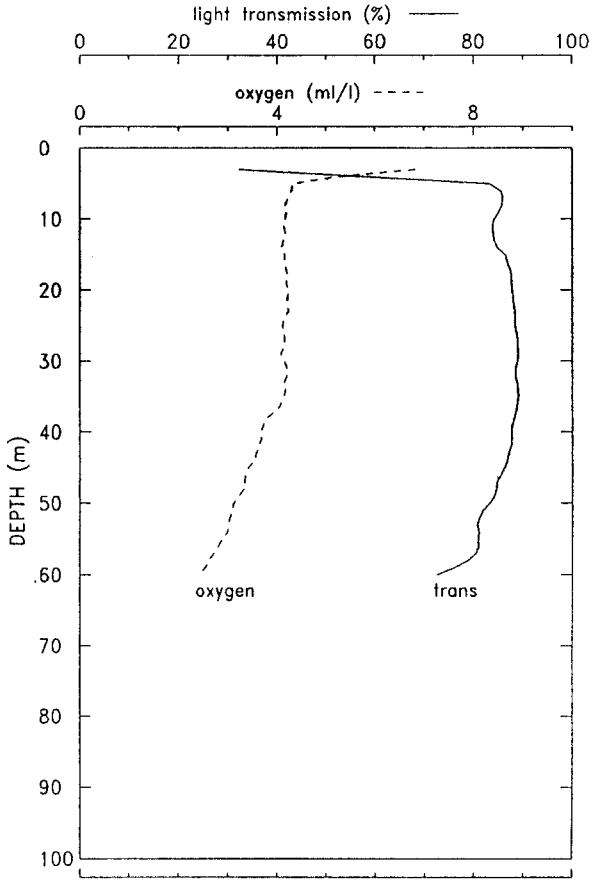
CAST 19

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.01	27.63	18.07	34.96	6.78
4.0	25.19	31.11	20.35	35.35	5.49
5.0	25.23	33.72	22.31	41.04	4.36
6.0	24.78	34.28	22.86	58.85	4.20
7.0	23.41	34.97	23.80	72.76	4.32
8.0	23.31	35.05	23.88	79.93	4.30
9.0	23.17	35.11	23.97	83.12	4.30
10.0	23.01	35.24	24.11	83.96	4.28
11.0	22.78	35.31	24.24	84.77	4.30
12.0	22.58	35.45	24.40	85.85	4.27
13.0	22.59	35.70	24.58	86.39	4.21
14.0	22.65	35.76	24.61	86.91	4.16
15.0	22.81	35.95	24.71	87.31	4.20
16.0	22.82	35.98	24.73	87.72	4.10
17.0	22.80	35.98	24.74	87.92	4.12
18.0	22.80	36.01	24.76	87.99	4.20
19.0	22.80	36.05	24.79	87.96	4.20
20.0	22.80	36.09	24.82	87.97	4.10
21.0	22.81	36.15	24.86	88.17	4.11
22.0	22.82	36.17	24.87	88.39	4.18
23.0	22.81	36.18	24.89	88.54	4.18
24.0	22.73	36.18	24.91	88.61	4.14
25.0	22.70	36.17	24.91	88.71	4.12
26.0	22.67	36.17	24.92	88.79	4.16
27.0	22.64	36.19	24.94	88.72	4.26
28.0	22.63	36.21	24.96	88.79	4.17
29.0	22.60	36.21	24.97	88.90	4.11
30.0	22.51	36.20	24.99	88.91	4.15
31.0	22.44	36.19	25.00	89.00	4.20
32.0	22.38	36.19	25.02	89.00	4.21
33.0	22.38	36.21	25.03	88.92	4.12
34.0	22.30	36.19	25.04	88.89	4.18
35.0	21.82	36.14	25.14	88.86	4.26
36.0	21.44	36.15	25.25	88.65	4.39
37.0	21.14	36.15	25.33	88.64	4.45
38.0	21.02	36.16	25.37	88.75	4.42
39.0	21.00	36.18	25.39	88.41	4.42
40.0	20.98	36.19	25.41	88.55	4.38
41.0	20.94	36.20	25.42	88.54	4.41
42.0	20.90	36.19	25.43	88.68	4.38
43.0	20.85	36.20	25.45	88.75	4.40
44.0	20.79	36.20	25.47	88.65	4.41
45.0	20.76	36.20	25.48	88.77	4.43
46.0	20.75	36.20	25.48	88.84	4.47
47.0	20.72	36.21	25.49	88.70	4.39
48.0	20.68	36.21	25.51	88.91	4.43
49.0	20.62	36.22	25.53	88.92	4.33
50.0	20.58	36.22	25.54	88.96	4.34
51.0	20.53	36.22	25.55	89.00	4.34
52.0	20.50	36.23	25.57	89.03	4.36
53.0	20.47	36.23	25.57	89.09	4.35
54.0	20.43	36.23	25.59	88.94	4.25
55.0	20.35	36.22	25.60	89.00	4.13
56.0	20.29	36.22	25.62	88.77	4.05
57.0	20.22	36.22	25.63	88.77	3.86
58.0	20.19	36.21	25.64	88.64	3.76
59.0	20.14	36.21	25.65	88.40	3.63
60.0	20.11	36.21	25.66	88.17	3.68
61.0	20.07	36.22	25.68	88.14	3.58
62.0	20.02	36.23	25.69	87.98	3.37
63.0	19.94	36.23	25.72	88.03	3.16
64.0	19.70	36.25	25.80	87.83	3.02
65.0	19.49	36.30	25.89	86.60	2.92
66.0	19.37	36.31	25.92	84.48	2.87
67.0	19.19	36.32	25.98	82.88	2.76
68.0	19.06	36.34	26.03	81.41	2.65
69.0	19.01	36.36	26.06	80.41	2.49
70.0	18.89	36.35	26.08	79.68	2.52
71.0	18.66	36.33	26.12	79.12	2.56
72.0	18.05	36.28	26.24	78.83	2.61
73.0	17.74	36.26	26.30	78.96	2.69
74.0	17.52	36.24	26.34	79.33	2.63
75.0	17.40	36.24	26.37	79.17	2.59
76.0	17.18	36.22	26.41	78.55	2.49
77.0	16.85	36.21	26.48	77.25	2.36
78.0	16.65	36.20	26.52	74.71	2.35
79.0	16.58	36.19	26.53	72.06	2.33
80.0	16.50	36.17	26.53	70.67	2.35
81.0	16.28	36.14	26.56	70.21	2.41
82.0	16.11	36.11	26.58	70.38	2.34
83.0	15.92	36.09	26.61	70.82	2.35
84.0	15.64	36.05	26.64	70.57	2.34
85.0	15.19	35.98	26.69	69.80	2.37
86.0	15.01	35.96	26.71	67.38	2.36
87.0	14.97	35.95	26.71	62.68	2.34

CAST 20

Position: 28 52.3 N, 89 41.4 W Time: 08:11 Z, 16 May 92 File: 9213707.cnv Depth: 64 m



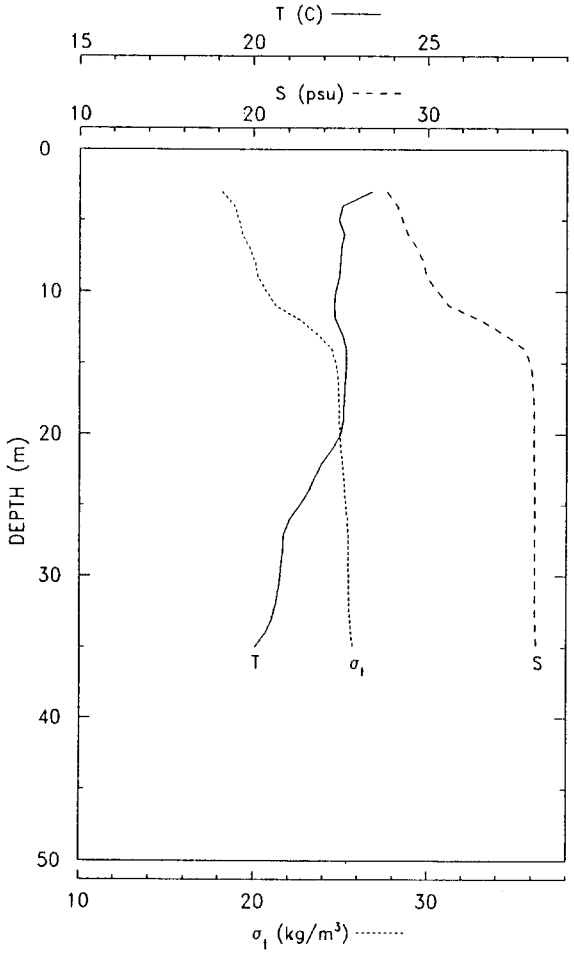


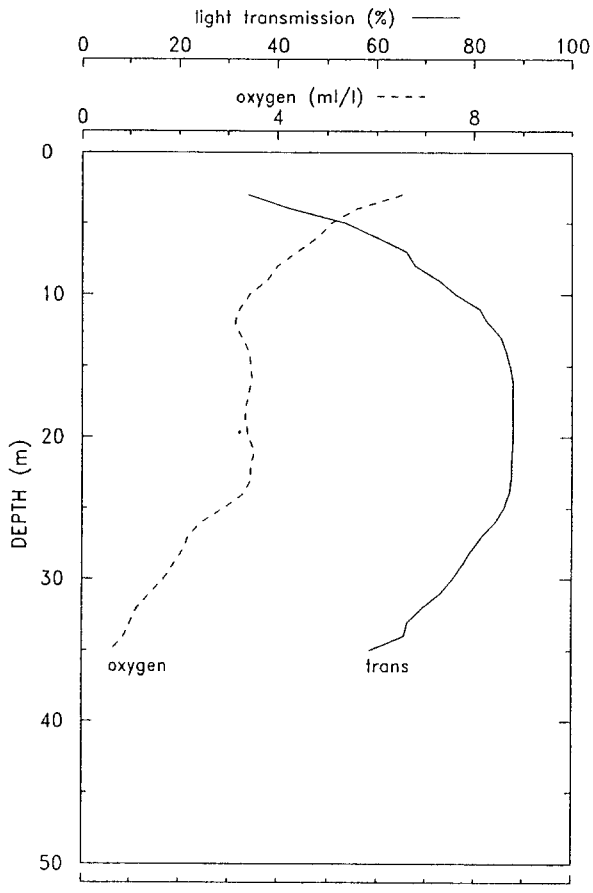
CAST 20

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.84	29.92	19.56	32.27	6.83
4.0	24.61	33.53	22.35	56.89	5.25
5.0	24.31	34.84	23.43	83.25	4.32
6.0	24.21	34.94	23.53	85.48	4.31
7.0	24.15	35.00	23.60	85.98	4.24
8.0	24.05	35.06	23.67	85.79	4.17
9.0	23.97	35.08	23.71	85.12	4.20
10.0	23.84	35.09	23.76	84.25	4.18
11.0	23.68	35.17	23.87	83.87	4.14
12.0	23.64	35.26	23.95	84.12	4.19
13.0	23.55	35.37	24.06	84.30	4.14
14.0	23.11	35.41	24.21	84.89	4.10
15.0	22.58	35.45	24.40	86.43	4.17
16.0	22.34	35.57	24.56	86.85	4.15
17.0	22.28	35.68	24.66	87.40	4.19
18.0	22.26	35.73	24.70	87.76	4.23
19.0	22.27	35.81	24.75	87.74	4.19
20.0	22.29	35.85	24.78	87.88	4.25
21.0	22.25	35.89	24.82	88.04	4.22
22.0	22.28	35.93	24.85	88.15	4.21
23.0	22.35	35.98	24.86	88.35	4.24
24.0	22.48	36.03	24.87	88.45	4.14
25.0	22.67	36.12	24.88	88.36	4.12
26.0	22.74	36.17	24.90	88.76	4.15
27.0	22.73	36.18	24.91	88.99	4.17
28.0	22.72	36.18	24.92	89.02	4.15
29.0	22.61	36.16	24.93	89.10	4.09
30.0	22.28	36.06	24.95	89.01	4.16
31.0	22.02	36.01	24.98	88.59	4.21
32.0	22.05	36.07	25.02	88.55	4.21
33.0	22.27	36.22	25.07	88.93	4.16
34.0	22.20	36.24	25.11	89.08	4.18
35.0	22.02	36.23	25.15	89.22	4.14
36.0	21.62	36.19	25.23	88.97	4.09
37.0	21.16	36.14	25.32	88.79	3.99
38.0	20.87	36.13	25.39	88.33	3.80
39.0	20.69	36.13	25.44	87.88	3.73
40.0	20.56	36.14	25.48	87.69	3.67
41.0	20.55	36.16	25.50	87.79	3.69
42.0	20.50	36.18	25.53	87.74	3.64
43.0	20.47	36.19	25.55	87.17	3.58
44.0	20.44	36.20	25.56	86.88	3.55
45.0	20.36	36.21	25.59	86.40	3.42
46.0	20.27	36.23	25.63	85.66	3.36
47.0	20.26	36.24	25.64	84.79	3.34
48.0	20.26	36.25	25.64	84.74	3.34
49.0	20.24	36.26	25.66	84.33	3.23
50.0	20.17	36.27	25.69	83.40	3.12
51.0	20.11	36.28	25.71	82.04	3.10
52.0	20.03	36.28	25.73	81.24	3.04
53.0	19.97	36.29	25.75	80.76	3.02
54.0	19.86	36.29	25.79	81.20	3.00
55.0	19.64	36.30	25.85	81.00	2.88
56.0	19.42	36.31	25.91	81.11	2.81
57.0	19.08	36.31	26.01	80.47	2.72
58.0	18.43	36.31	26.17	78.86	2.61
59.0	17.90	36.29	26.29	76.14	2.54
60.0	17.23	36.24	26.41	72.54	2.41

CAST 21

Position: 29 00.6 N, 89 37.8 W Time: 09:27 Z, 16 May 92 File: 9213709.cnv Depth: 38 m





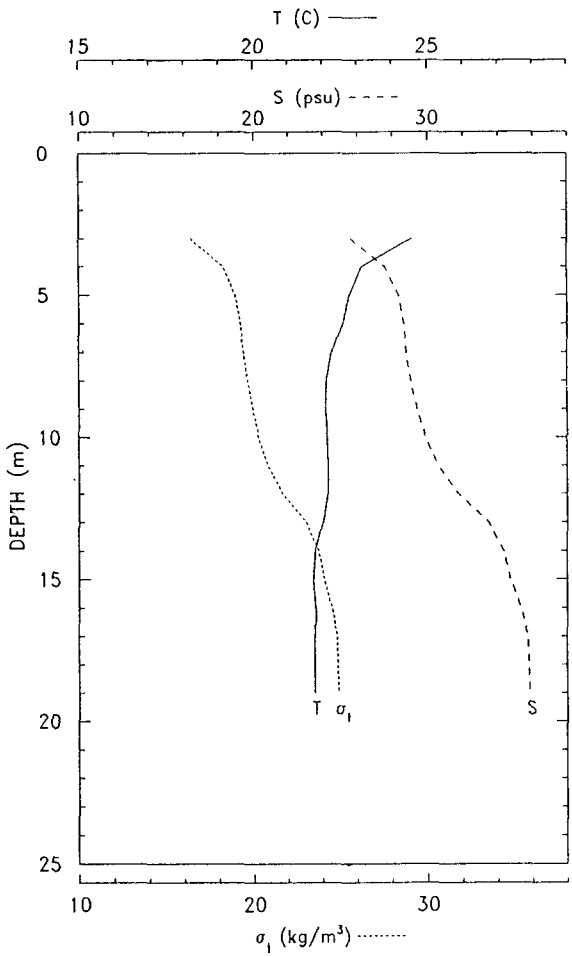
CAST 21

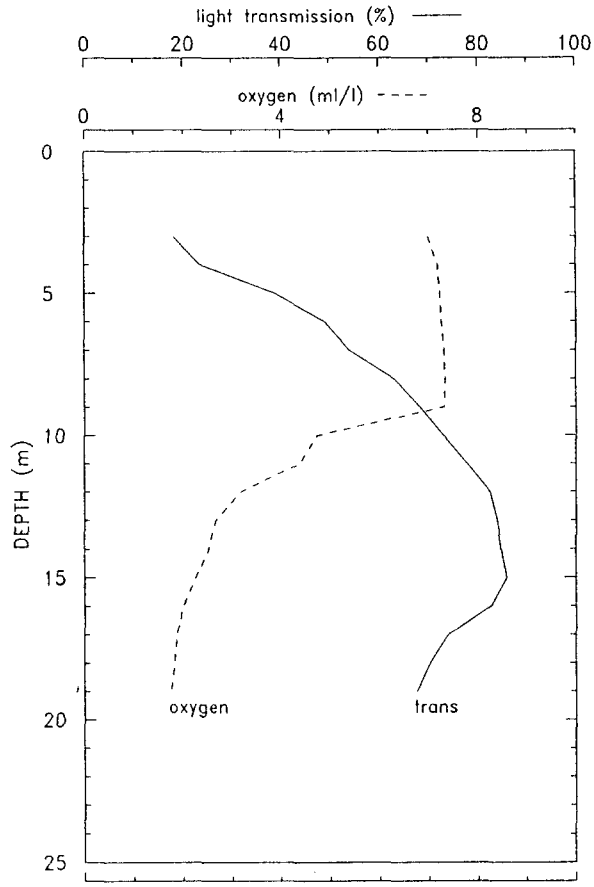
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.40	27.61	18.23	33.97	6.52
4.0	22.55	28.24	18.94	42.62	5.59
5.0	22.44	28.55	19.20	53.61	5.08
6.0	22.61	28.85	19.39	59.98	4.82
7.0	22.51	29.39	19.82	66.05	4.39
8.0	22.49	29.74	20.10	67.91	4.02
9.0	22.45	29.95	20.26	72.74	3.80
10.0	22.35	30.58	20.77	76.31	3.44
11.0	22.30	31.24	21.28	81.11	3.25
12.0	22.36	33.13	22.70	82.91	3.14
13.0	22.54	34.46	23.66	85.50	3.29
14.0	22.65	35.59	24.48	86.60	3.44
15.0	22.65	35.93	24.74	87.42	3.46
16.0	22.64	36.04	24.83	87.97	3.49
17.0	22.62	36.10	24.88	88.02	3.42
18.0	22.59	36.12	24.90	88.04	3.36
19.0	22.58	36.13	24.91	87.98	3.36

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
20.0	22.50	36.12	24.93	87.97	3.41
21.0	22.26	36.15	25.02	87.87	3.54
22.0	21.97	36.14	25.10	87.70	3.46
23.0	21.78	36.17	25.17	87.67	3.47
24.0	21.59	36.18	25.23	87.23	3.31
25.0	21.34	36.18	25.30	86.23	2.92
26.0	21.04	36.18	25.38	84.39	2.47
27.0	20.88	36.18	25.43	81.60	2.19
28.0	20.85	36.18	25.43	79.49	2.07
29.0	20.81	36.18	25.45	77.73	1.89
30.0	20.77	36.18	25.46	75.74	1.68
31.0	20.72	36.18	25.47	73.25	1.43
32.0	20.65	36.18	25.49	69.53	1.15
33.0	20.54	36.19	25.53	66.44	1.01
34.0	20.36	36.22	25.60	65.59	0.88
35.0	20.05	36.27	25.72	58.61	0.62

CAST 22

Position: 29 07.2 N, 89 43.9 W Time: 10:46 Z, 16 May 92 File: 9213711.cnv Depth: 22 m





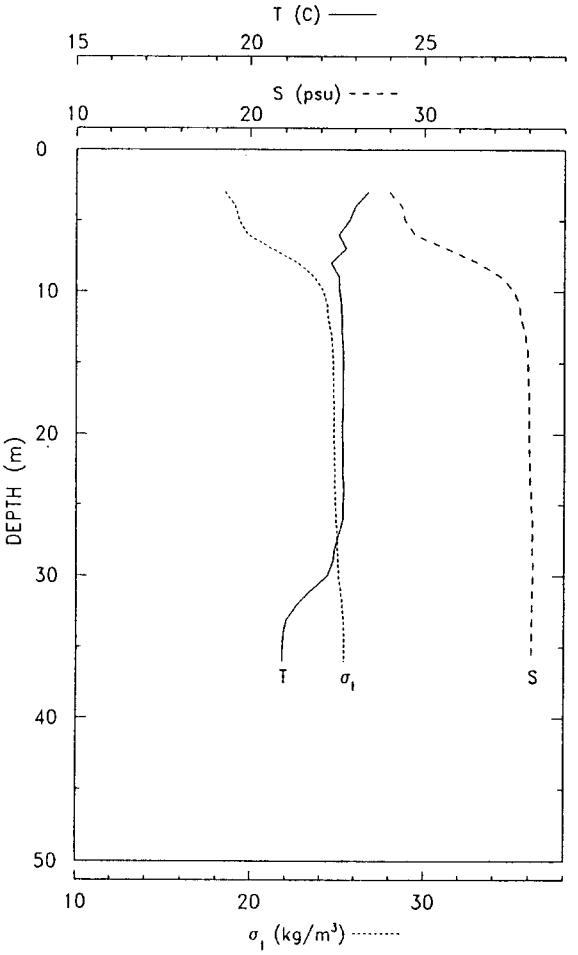
CAST 22

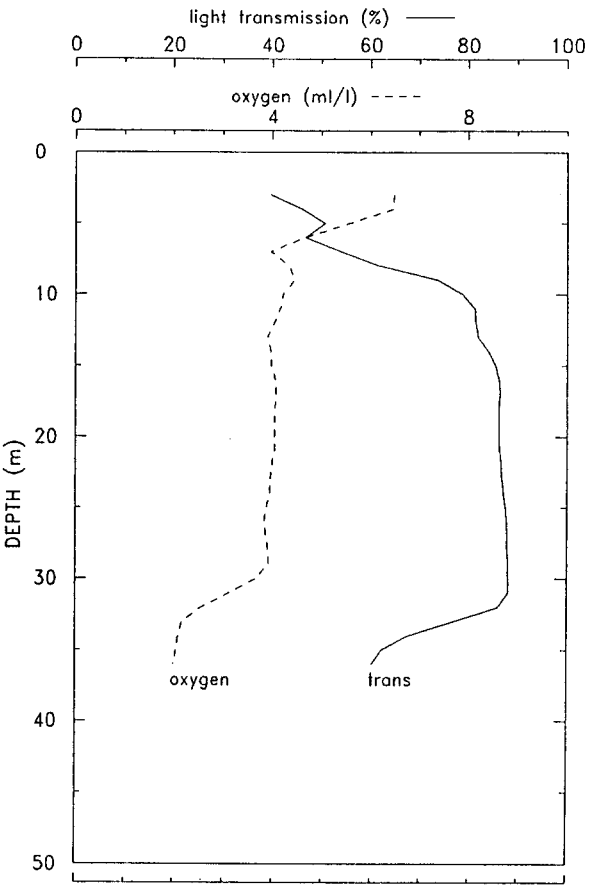
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.57	25.63	16.41	18.14	6.99
4.0	23.15	27.59	18.29	23.56	7.20
5.0	22.79	28.39	18.99	38.84	7.24
6.0	22.59	28.69	19.27	48.99	7.26
7.0	22.26	28.82	19.46	54.04	7.33
8.0	22.11	29.06	19.69	63.11	7.35
9.0	22.08	29.42	19.97	68.28	7.32
10.0	22.14	29.88	20.30	73.03	4.74
11.0	22.18	30.62	20.85	77.82	4.39

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
12.0	22.16	31.75	21.71	82.44	3.18
13.0	22.02	33.47	23.05	83.92	2.65
14.0	21.79	34.36	23.79	84.73	2.52
15.0	21.73	34.74	24.10	85.87	2.25
16.0	21.80	35.35	24.54	82.62	1.99
17.0	21.78	35.74	24.84	74.03	1.88
18.0	21.77	35.79	24.89	70.31	1.82
19.0	21.77	35.83	24.91	67.60	1.76

CAST 23

Position: 29 00.2 N, 89 48.2 W Time: 12:00 Z, 16 May 92 File: 9213713.cnv Depth: 38 m





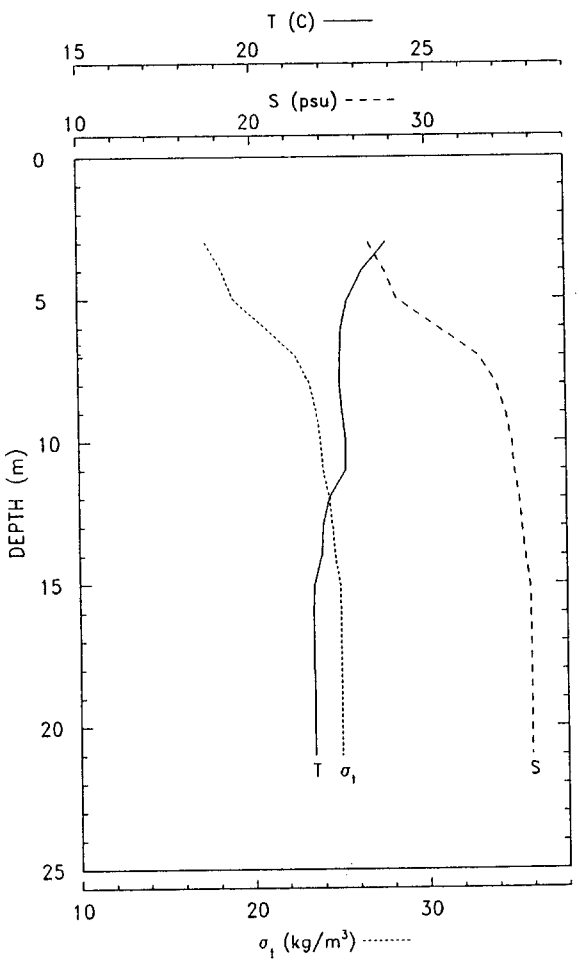
CAST 23

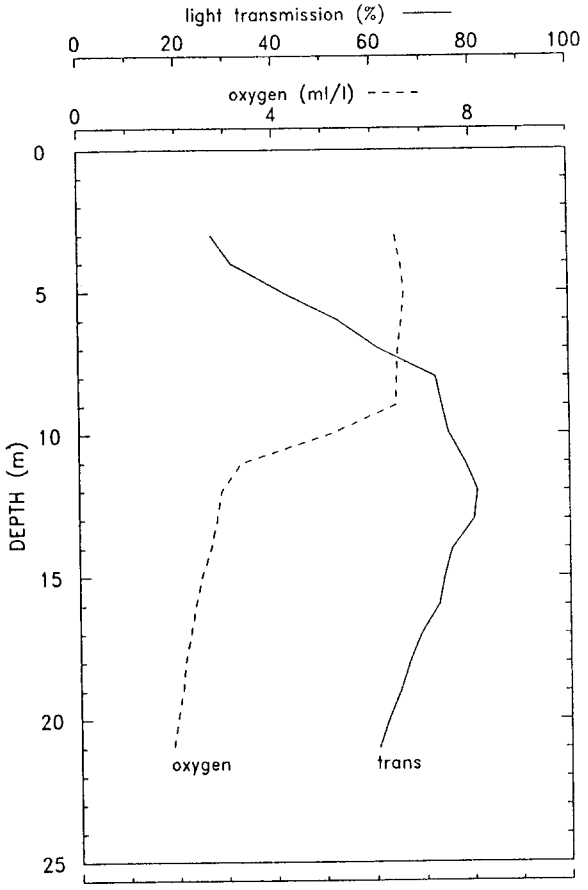
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.39	28.00	18.53	39.64	6.48
4.0	23.02	28.70	19.16	46.04	6.46
5.0	22.84	28.91	19.37	50.79	5.56
6.0	22.53	29.46	19.87	46.62	4.66
7.0	22.75	31.31	21.21	53.95	3.98
8.0	22.30	33.13	22.71	61.69	4.34
9.0	22.55	34.46	23.65	73.85	4.46
10.0	22.55	35.16	24.18	78.90	4.22
11.0	22.61	35.46	24.39	81.29	4.17
12.0	22.63	35.56	24.46	81.48	4.05
13.0	22.64	35.79	24.63	81.89	3.90
14.0	22.66	35.91	24.72	84.08	3.97
15.0	22.66	35.94	24.74	85.57	3.98
16.0	22.67	35.96	24.76	86.26	4.07
17.0	22.67	35.99	24.78	86.42	4.08
18.0	22.66	36.00	24.79	86.21	4.06
19.0	22.65	36.00	24.79	86.16	4.05

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
20.0	22.64	36.01	24.81	86.19	4.05
21.0	22.66	36.03	24.82	86.36	4.05
22.0	22.66	36.05	24.83	86.67	3.99
23.0	22.67	36.08	24.85	86.83	3.96
24.0	22.70	36.12	24.87	87.16	3.95
25.0	22.67	36.14	24.90	87.62	3.89
26.0	22.68	36.20	24.94	87.81	3.84
27.0	22.56	36.23	24.99	87.93	3.89
28.0	22.44	36.22	25.02	88.02	3.92
29.0	22.38	36.24	25.06	88.13	3.93
30.0	22.22	36.24	25.10	88.20	3.68
31.0	21.75	36.22	25.22	88.21	3.14
32.0	21.34	36.20	25.32	86.02	2.57
33.0	21.06	36.18	25.38	76.95	2.19
34.0	20.95	36.17	25.40	67.67	2.10
35.0	20.93	36.17	25.40	62.30	2.06
36.0	20.93	36.16	25.40	60.30	2.01

CAST 24

Position: 29 02.1 N, 90 00.2 W Time: 13:28 Z, 16 May 92 File: 9213715.cnv Depth: 21 m





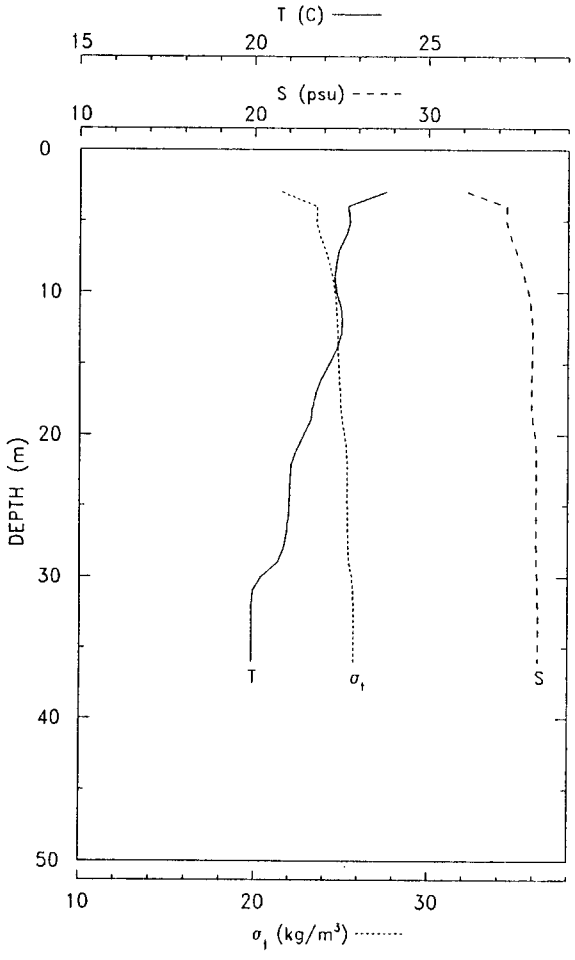
CAST 24

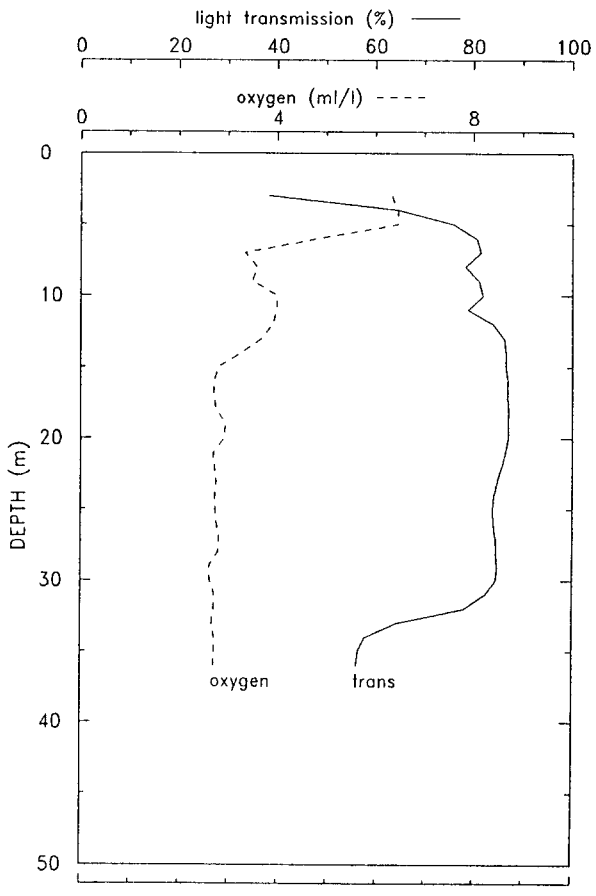
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.88	26.71	17.42	27.31	6.48
4.0	23.17	27.64	18.32	31.33	6.58
5.0	22.76	28.36	18.98	41.82	6.64
6.0	22.56	30.70	20.80	53.17	6.59
7.0	22.52	33.01	22.56	61.32	6.52
8.0	22.50	34.04	23.35	72.67	6.48
9.0	22.58	34.55	23.71	73.95	6.46
10.0	22.68	34.87	23.93	75.31	5.14
11.0	22.66	35.01	24.04	78.60	3.32
12.0	22.18	35.29	24.39	81.08	2.91

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
13.0	22.00	35.43	24.55	80.29	2.81
14.0	21.97	35.63	24.71	75.90	2.68
15.0	21.76	35.87	24.95	74.23	2.49
16.0	21.72	35.90	24.99	73.02	2.37
17.0	21.72	35.91	24.99	69.37	2.26
18.0	21.73	35.92	24.99	66.97	2.14
19.0	21.73	35.92	24.99	65.04	2.08
20.0	21.74	35.92	24.99	62.65	1.98
21.0	21.74	35.92	24.99	60.63	1.88

CAST 25

Position: 28 51.1 N, 90 00.3 W Time: 15:07 Z, 16 May 92 File: 9213717.cnv Depth: 38 m



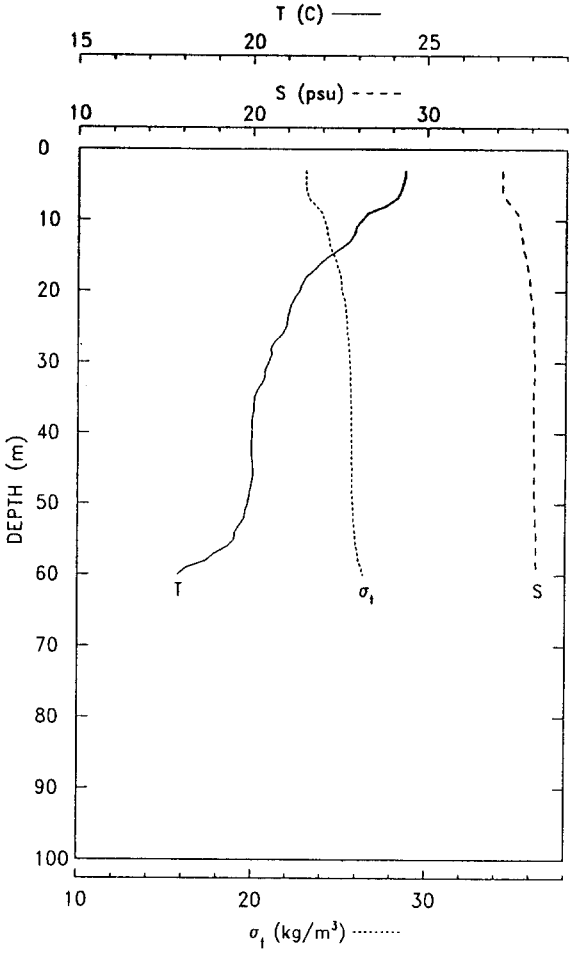


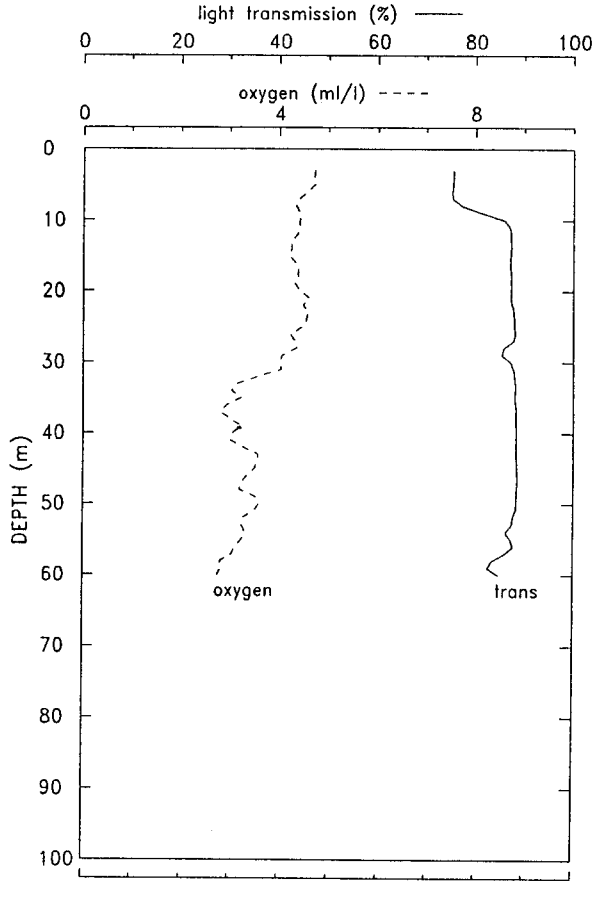
CAST 25

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.80	32.21	21.59	38.23	6.34
4.0	22.70	34.47	23.62	64.60	6.46
5.0	22.76	34.44	23.58	75.95	6.45
6.0	22.65	34.67	23.79	80.62	4.84
7.0	22.46	34.97	24.07	81.48	3.34
8.0	22.37	35.28	24.33	78.40	3.59
9.0	22.31	35.48	24.50	81.17	3.48
10.0	22.37	35.69	24.64	81.96	4.00
11.0	22.49	35.85	24.73	78.91	3.99
12.0	22.52	35.92	24.77	84.02	3.91
13.0	22.50	35.95	24.80	86.27	3.69
14.0	22.37	35.94	24.83	86.66	3.28
15.0	22.17	35.92	24.87	86.66	2.82
16.0	21.95	35.89	24.91	87.14	2.72
17.0	21.79	35.89	24.95	87.05	2.72
18.0	21.70	35.90	24.99	87.33	2.77
19.0	21.63	35.95	25.05	87.14	2.96
20.0	21.43	36.10	25.21	87.23	2.92
21.0	21.24	36.16	25.31	86.61	2.71
22.0	21.08	36.17	25.36	85.86	2.72
23.0	21.04	36.16	25.37	84.97	2.76
24.0	21.03	36.16	25.37	84.26	2.73
25.0	21.01	36.16	25.38	84.00	2.74
26.0	20.98	36.17	25.39	84.13	2.77
27.0	20.94	36.17	25.40	84.58	2.82
28.0	20.86	36.17	25.43	84.71	2.80
29.0	20.68	36.19	25.49	84.97	2.62
30.0	20.21	36.23	25.64	84.54	2.64
31.0	19.96	36.25	25.73	82.44	2.73
32.0	19.93	36.29	25.77	78.17	2.72
33.0	19.93	36.29	25.76	64.41	2.68
34.0	19.93	36.29	25.76	57.98	2.72
35.0	19.93	36.29	25.76	56.52	2.73
36.0	19.93	36.28	25.76	56.21	2.72

CAST 26

Position: 28 46.9 N, 89 50.1 W Time: 16:42 Z, 16 May 92 File: 9213719.cnv Depth: 62 m

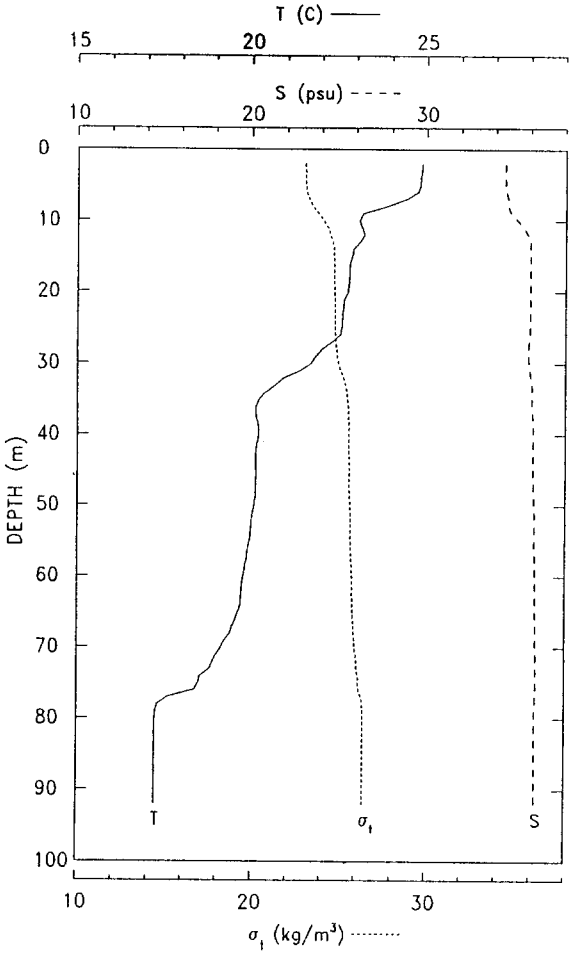


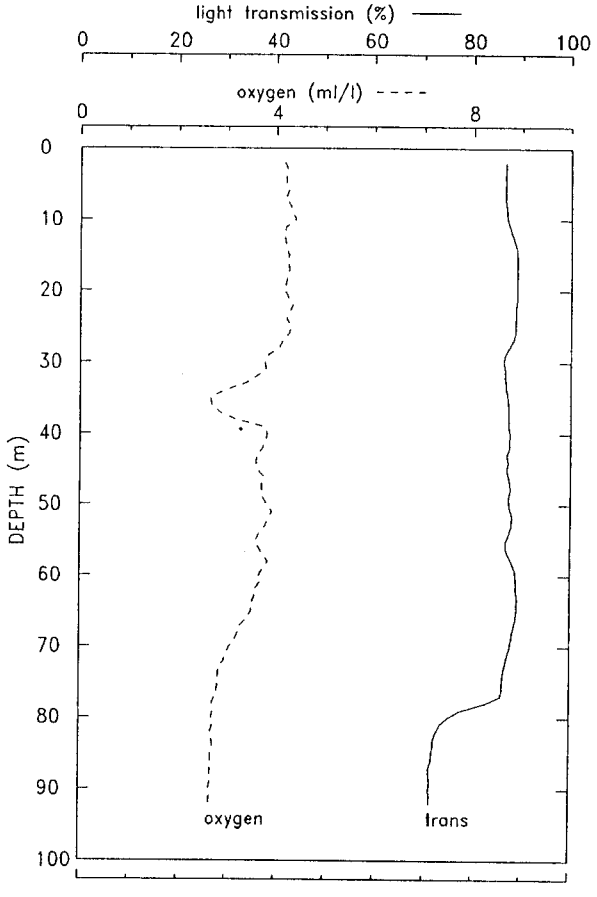


Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.36	34.33	23.03	75.45	4.72
4.0	24.35	34.33	23.03	75.52	4.70
5.0	24.30	34.32	23.04	75.38	4.72
6.0	24.23	34.35	23.08	75.12	4.56
7.0	24.12	34.51	23.24	75.23	4.41
8.0	23.80	34.89	23.62	77.18	4.34
9.0	23.29	35.19	24.00	81.33	4.43
10.0	23.12	35.29	24.12	85.86	4.42
11.0	22.95	35.38	24.23	87.04	4.41
12.0	22.90	35.44	24.30	87.24	4.37
13.0	22.76	35.49	24.38	87.33	4.24
14.0	22.51	35.55	24.49	87.31	4.25
15.0	22.21	35.67	24.67	87.23	4.21
16.0	21.97	35.76	24.81	87.15	4.33
17.0	21.78	35.84	24.92	87.22	4.38
18.0	21.53	35.92	25.05	87.32	4.38
19.0	21.43	35.94	25.09	87.36	4.32
20.0	21.35	35.94	25.12	87.38	4.43
21.0	21.20	36.02	25.22	87.22	4.62
22.0	21.10	36.11	25.31	87.60	4.48
23.0	21.06	36.13	25.34	87.89	4.59
24.0	21.01	36.16	25.38	88.07	4.56
25.0	20.97	36.17	25.39	88.02	4.48
26.0	20.87	36.18	25.43	88.23	4.23
27.0	20.66	36.18	25.49	87.83	4.33
28.0	20.53	36.18	25.52	85.82	4.36
29.0	20.55	36.21	25.54	85.40	4.08
30.0	20.47	36.22	25.57	87.35	4.02
31.0	20.37	36.21	25.59	87.88	4.06
32.0	20.36	36.22	25.60	88.08	3.60
33.0	20.27	36.21	25.61	88.26	3.17
34.0	20.14	36.18	25.62	88.24	3.05
35.0	20.06	36.16	25.63	88.22	3.25
36.0	20.04	36.16	25.64	88.40	2.95
37.0	20.04	36.18	25.65	88.50	2.82
38.0	19.99	36.17	25.66	88.41	3.02
39.0	19.98	36.17	25.66	88.47	3.25
40.0	19.99	36.19	25.67	88.51	3.06
41.0	19.98	36.19	25.67	88.55	3.02
42.0	19.97	36.19	25.68	88.50	3.28
43.0	19.97	36.20	25.69	88.46	3.59
44.0	20.00	36.22	25.69	88.54	3.58
45.0	20.01	36.22	25.69	88.60	3.52
46.0	20.01	36.23	25.70	88.68	3.37
47.0	19.98	36.23	25.70	88.72	3.25
48.0	19.95	36.22	25.71	88.60	3.21
49.0	19.91	36.23	25.72	88.58	3.54
50.0	19.87	36.25	25.75	88.52	3.61
51.0	19.80	36.26	25.78	88.31	3.51
52.0	19.78	36.27	25.79	87.76	3.28
53.0	19.63	36.29	25.84	87.48	3.26
54.0	19.50	36.31	25.89	86.27	3.33
55.0	19.48	36.31	25.90	87.43	3.25
56.0	19.27	36.32	25.96	87.88	3.13
57.0	18.91	36.31	26.05	86.03	3.06
58.0	18.68	36.30	26.10	83.43	2.82
59.0	18.11	36.35	26.28	82.54	2.83
60.0	17.87	36.35	26.34	84.86	2.76

CAST 27

Position: 28 41.0 N, 89 49.7 W Time: 17:53 Z, 16 May 92 File: 9213721.cnv Depth: 97 m



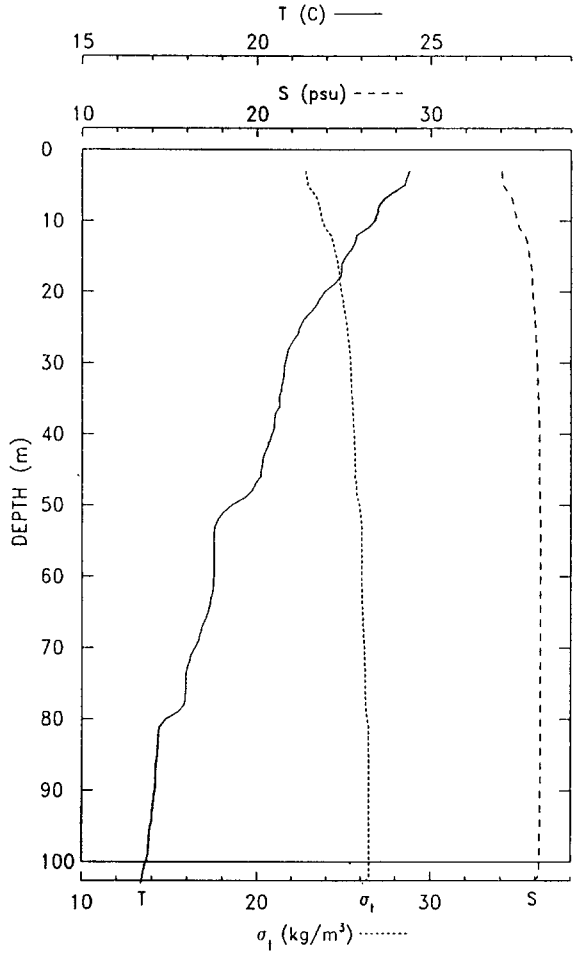


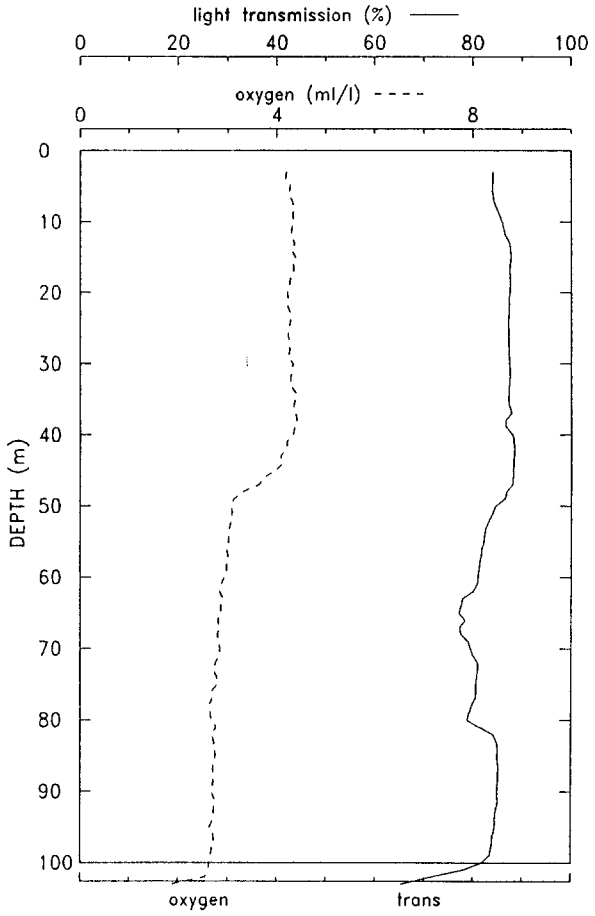
CAST 27

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.88	34.53	23.02	86.62	4.17
3.0	24.86	34.53	23.03	86.58	4.23
4.0	24.83	34.54	23.04	86.44	4.20
5.0	24.81	34.54	23.05	86.55	4.19
6.0	24.74	34.58	23.10	86.49	4.25
7.0	24.41	34.69	23.28	86.50	4.18
8.0	23.85	34.70	23.46	86.63	4.28
9.0	23.20	34.88	23.79	86.77	4.32
10.0	23.09	35.27	24.11	86.93	4.40
11.0	23.16	35.63	24.36	87.39	4.20
12.0	23.24	35.82	24.49	87.86	4.17
13.0	23.10	35.98	24.65	88.39	4.18
14.0	22.92	35.97	24.70	88.90	4.20
15.0	22.89	35.98	24.71	88.91	4.26
16.0	22.82	35.97	24.72	88.95	4.22
17.0	22.80	35.97	24.73	88.97	4.27
18.0	22.80	35.97	24.73	88.96	4.23
19.0	22.79	35.97	24.73	88.92	4.19
20.0	22.76	35.97	24.74	88.95	4.17
21.0	22.66	35.97	24.77	88.96	4.25
22.0	22.63	35.97	24.77	88.81	4.34
23.0	22.61	35.96	24.78	88.80	4.27
24.0	22.60	35.96	24.78	88.76	4.21
25.0	22.59	35.96	24.78	88.71	4.31
26.0	22.55	35.95	24.79	88.67	4.26
27.0	22.31	35.91	24.82	88.20	4.13
28.0	22.03	35.87	24.87	87.35	4.07
29.0	21.85	35.86	24.92	86.50	3.84
30.0	21.70	35.91	24.99	86.18	3.77
31.0	21.39	35.95	25.11	86.57	3.79
32.0	20.93	36.01	25.29	86.60	3.59
33.0	20.68	36.07	25.40	86.71	3.35
34.0	20.41	36.10	25.49	86.94	2.93
35.0	20.22	36.08	25.53	87.18	2.65
36.0	20.13	36.10	25.56	87.31	2.69
37.0	20.12	36.10	25.57	87.38	2.85
38.0	20.15	36.13	25.59	87.33	3.16
39.0	20.21	36.17	25.60	87.37	3.73
40.0	20.21	36.17	25.60	87.67	3.82
41.0	20.17	36.16	25.60	87.55	3.79
42.0	20.14	36.16	25.61	87.48	3.74
43.0	20.12	36.16	25.61	86.96	3.62
44.0	20.12	36.16	25.62	87.25	3.60
45.0	20.13	36.17	25.62	86.93	3.62
46.0	20.13	36.17	25.62	87.24	3.74
47.0	20.13	36.18	25.63	87.66	3.71
48.0	20.13	36.20	25.64	87.77	3.72
49.0	20.12	36.22	25.66	87.33	3.73
50.0	20.08	36.24	25.68	87.46	3.83
51.0	20.04	36.24	25.70	87.86	3.93
52.0	20.00	36.24	25.71	88.13	3.85
53.0	20.00	36.24	25.71	87.94	3.80
54.0	19.97	36.24	25.72	87.45	3.67
55.0	19.96	36.25	25.73	86.87	3.60
56.0	19.91	36.26	25.75	86.80	3.66
57.0	19.88	36.26	25.76	87.30	3.75
58.0	19.85	36.27	25.77	88.00	3.85
59.0	19.82	36.28	25.78	88.63	3.76
60.0	19.79	36.29	25.80	88.89	3.67
61.0	19.75	36.29	25.82	89.08	3.70
62.0	19.73	36.30	25.82	88.98	3.58
63.0	19.71	36.30	25.83	89.31	3.58
64.0	19.70	36.30	25.83	89.17	3.51
65.0	19.63	36.30	25.86	89.14	3.52
66.0	19.57	36.31	25.88	88.95	3.42
67.0	19.47	36.32	25.91	88.55	3.29
68.0	19.41	36.32	25.93	88.24	3.24
69.0	19.26	36.33	25.97	88.11	3.18
70.0	19.16	36.34	26.00	87.85	3.07
71.0	19.02	36.34	26.04	87.34	3.01
72.0	18.92	36.35	26.07	86.94	2.96
73.0	18.84	36.35	26.10	86.62	2.85
74.0	18.57	36.37	26.18	86.39	2.85
75.0	18.51	36.36	26.19	86.28	2.84
76.0	18.39	36.35	26.21	86.23	2.82
77.0	17.64	36.32	26.37	85.87	2.78
78.0	17.33	36.31	26.44	82.65	2.71
79.0	17.27	36.30	26.45	77.70	2.74
80.0	17.25	36.30	26.45	75.14	2.71
81.0	17.25	36.29	26.45	73.52	2.73
82.0	17.24	36.29	26.45	72.83	2.69
83.0	17.24	36.29	26.45	72.31	2.71
84.0	17.24	36.29	26.45	72.22	2.73
85.0	17.24	36.29	26.45	72.04	2.70
86.0	17.24	36.29	26.45	71.85	2.69
87.0	17.24	36.29	26.45	71.29	2.69
88.0	17.24	36.29	26.45	71.32	2.69
89.0	17.24	36.29	26.45	71.56	2.69
90.0	17.24	36.29	26.45	71.33	2.67
91.0	17.24	36.29	26.44	71.47	2.68
92.0	17.24	36.29	26.44	71.53	2.67

CAST 28

Position: 28 41.0 N, 90 00.5 W Time: 19:14 Z, 16 May 92 File: 9213723.cnv Depth: 108 m

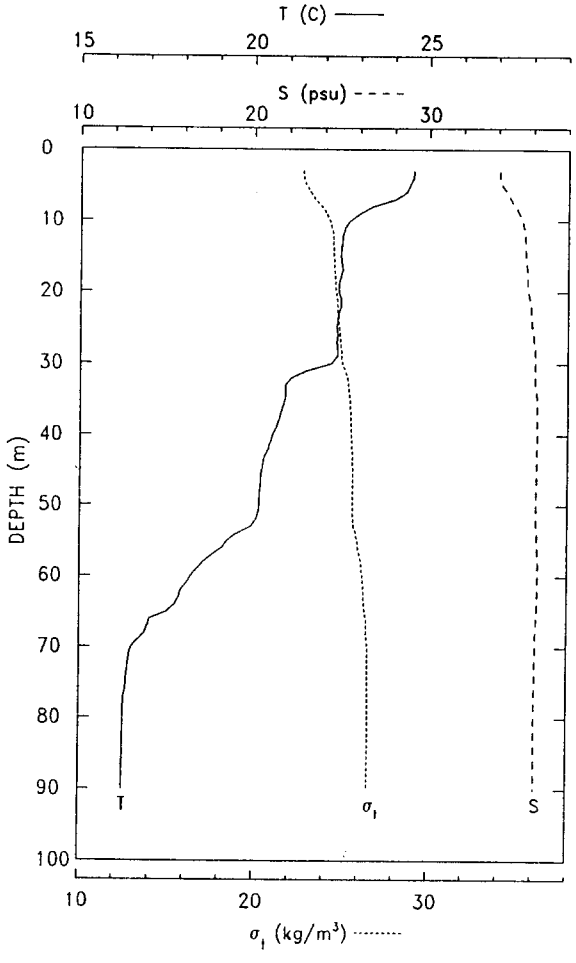


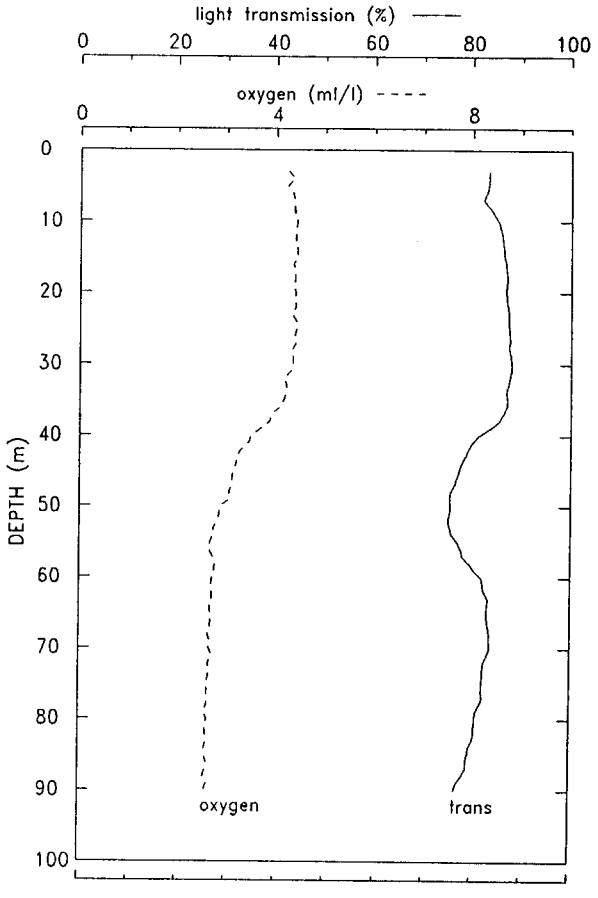


Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.40	34.05	22.80	83.99	4.21
4.0	24.31	34.10	22.87	84.02	4.19
5.0	24.25	34.14	22.92	83.91	4.28
6.0	23.95	34.42	23.22	83.96	4.25
7.0	23.66	34.66	23.49	84.17	4.31
8.0	23.51	34.75	23.60	84.74	4.36
9.0	23.48	34.85	23.68	85.35	4.34
10.0	23.40	34.94	23.77	85.90	4.33
11.0	23.20	35.07	23.93	86.23	4.31
12.0	22.88	35.37	24.25	86.64	4.30
13.0	22.83	35.51	24.37	87.44	4.38
14.0	22.72	35.59	24.46	87.61	4.30
15.0	22.56	35.65	24.55	87.71	4.39
16.0	22.45	35.72	24.64	87.49	4.34
17.0	22.45	35.80	24.70	87.41	4.35
18.0	22.40	35.83	24.74	87.53	4.28
19.0	22.20	35.83	24.79	87.60	4.27
20.0	21.95	35.83	24.86	87.47	4.22
21.0	21.81	35.88	24.94	87.31	4.25
22.0	21.70	35.91	25.00	87.36	4.23
23.0	21.53	35.95	25.07	87.38	4.29
24.0	21.34	35.97	25.14	87.18	4.28
25.0	21.24	36.01	25.20	87.20	4.26
26.0	21.18	36.02	25.22	87.23	4.24
27.0	21.03	36.05	25.29	87.20	4.25
28.0	20.92	36.07	25.33	87.30	4.28
29.0	20.87	36.08	25.35	87.39	4.24
30.0	20.81	36.10	25.38	87.46	4.34
31.0	20.78	36.11	25.40	87.59	4.30
32.0	20.77	36.12	25.41	87.53	4.29
33.0	20.73	36.13	25.43	87.44	4.28
34.0	20.71	36.15	25.45	87.35	4.39
35.0	20.64	36.18	25.49	87.21	4.39
36.0	20.67	36.22	25.51	87.48	4.36
37.0	20.54	36.19	25.53	87.91	4.40
38.0	20.51	36.21	25.55	86.61	4.42
39.0	20.51	36.23	25.57	86.84	4.37
40.0	20.44	36.23	25.59	88.05	4.34
41.0	20.37	36.24	25.61	88.31	4.21
42.0	20.29	36.24	25.63	88.53	4.21
43.0	20.20	36.24	25.65	88.36	4.09
44.0	20.16	36.24	25.66	88.29	4.14
45.0	20.13	36.24	25.67	88.16	4.00
46.0	20.12	36.23	25.67	88.21	3.75
47.0	19.96	36.25	25.73	88.14	3.66
48.0	19.86	36.25	25.76	86.86	3.33
49.0	19.65	36.26	25.82	86.54	3.14
50.0	19.28	36.28	25.93	84.67	3.06
51.0	19.05	36.28	25.99	84.14	3.09
52.0	18.90	36.28	26.03	83.37	3.08
53.0	18.80	36.28	26.05	82.72	3.04
54.0	18.77	36.28	26.06	82.41	3.02
55.0	18.77	36.28	26.06	82.28	3.03
56.0	18.77	36.28	26.06	81.88	2.97
57.0	18.77	36.28	26.06	81.81	3.01
58.0	18.77	36.28	26.06	81.46	2.98
59.0	18.77	36.28	26.06	81.33	2.98
60.0	18.77	36.28	26.06	81.14	2.93
61.0	18.77	36.28	26.06	80.93	2.87
62.0	18.74	36.29	26.07	80.18	2.84
63.0	18.69	36.29	26.09	77.94	2.91
64.0	18.67	36.29	26.10	77.70	2.87
65.0	18.61	36.29	26.11	77.28	2.88
66.0	18.53	36.29	26.13	78.54	2.80
67.0	18.45	36.29	26.15	77.31	2.84
68.0	18.38	36.29	26.17	77.60	2.79
69.0	18.34	36.29	26.18	79.12	2.81
70.0	18.22	36.29	26.21	79.59	2.84
71.0	18.12	36.29	26.23	80.15	2.83
72.0	18.08	36.29	26.24	81.05	2.75
73.0	18.01	36.29	26.26	81.07	2.72
74.0	17.97	36.29	26.27	80.90	2.78
75.0	17.97	36.29	26.27	80.69	2.79
76.0	17.97	36.29	26.27	80.70	2.68
77.0	17.95	36.30	26.28	80.55	2.69
78.0	17.93	36.30	26.29	79.84	2.63
79.0	17.75	36.30	26.33	79.33	2.65
80.0	17.40	36.29	26.41	78.88	2.68
81.0	17.23	36.29	26.45	81.53	2.77
82.0	17.19	36.29	26.46	84.18	2.67
83.0	17.20	36.30	26.46	84.82	2.72
84.0	17.18	36.29	26.46	85.08	2.74
85.0	17.16	36.29	26.47	84.97	2.76
86.0	17.14	36.29	26.47	85.11	2.71
87.0	17.12	36.28	26.47	85.21	2.71
88.0	17.11	36.28	26.47	85.14	2.72
89.0	17.10	36.28	26.48	85.03	2.70
90.0	17.09	36.28	26.48	84.95	2.67
91.0	17.05	36.27	26.48	85.04	2.74
92.0	17.04	36.27	26.48	84.92	2.73
93.0	17.02	36.27	26.49	84.60	2.72
94.0	17.00	36.27	26.49	84.48	2.70
95.0	16.96	36.26	26.49	84.51	2.64
96.0	16.93	36.26	26.50	84.05	2.71
97.0	16.92	36.25	26.50	83.91	2.73
98.0	16.90	36.25	26.50	83.71	2.69
99.0	16.89	36.24	26.50	83.41	2.66
100.0	16.83	36.23	26.50	81.85	2.63
101.0	16.78	36.22	26.51	78.04	2.61
102.0	16.74	36.22	26.52	71.33	2.56
103.0	16.69	35.74	26.15	65.31	1.90

CAST 29

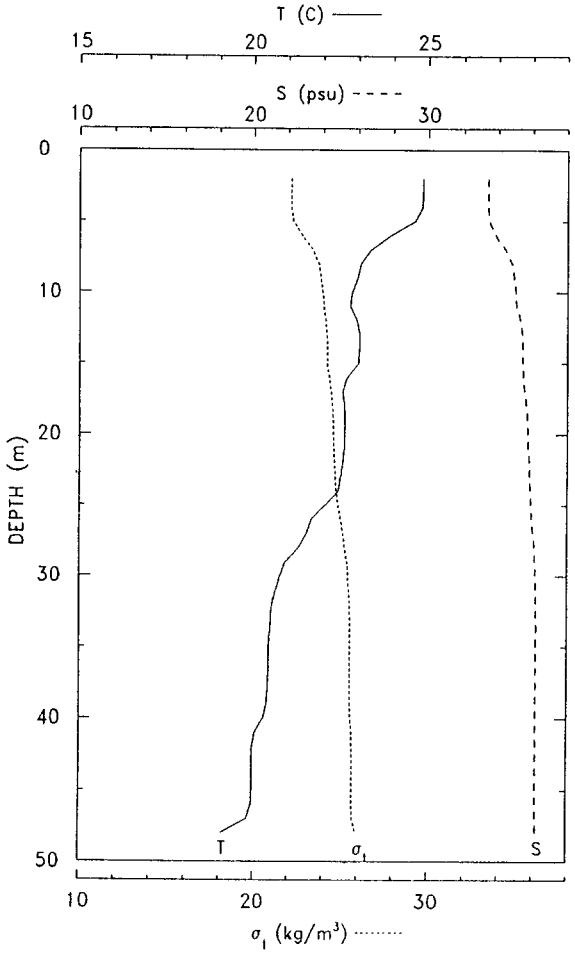
Position: 28 30.2 N, 90 00.1 W Time: 21:05 Z, 16 May 92 File: 9213725.cnv Depth: 94 m

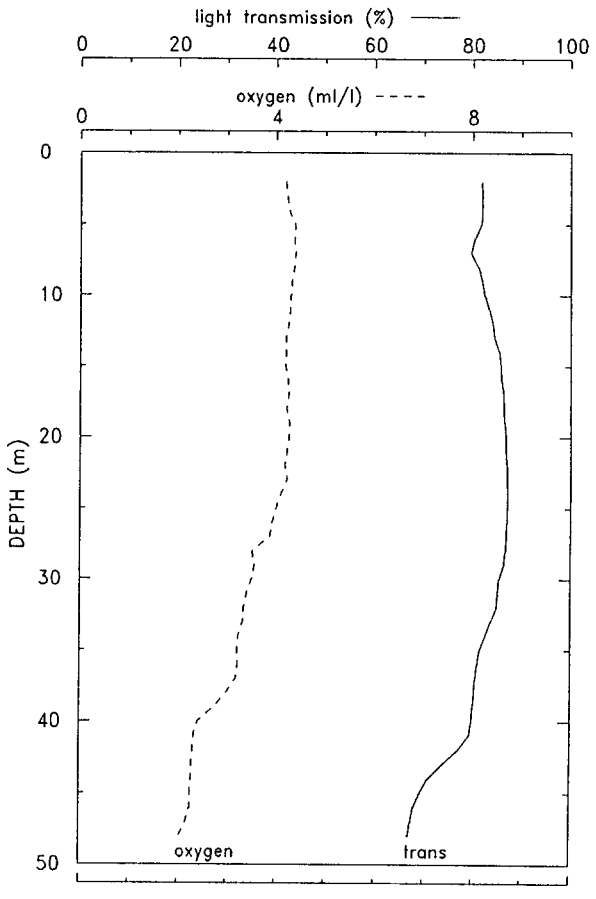




Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.54	34.04	22.76	83.36	4.24
4.0	24.53	34.05	22.77	83.37	4.38
5.0	24.43	34.18	22.90	83.15	4.23
6.0	24.33	34.50	23.17	82.83	4.33
7.0	24.02	34.70	23.41	82.17	4.36
8.0	23.37	34.99	23.82	83.39	4.37
9.0	23.01	35.20	24.08	84.40	4.38
10.0	22.72	35.36	24.29	85.34	4.42
11.0	22.58	35.46	24.40	85.67	4.40
12.0	22.52	35.53	24.48	85.97	4.39
13.0	22.49	35.54	24.49	86.23	4.38
14.0	22.48	35.55	24.50	86.37	4.43
15.0	22.46	35.57	24.52	86.46	4.44
16.0	22.50	35.61	24.54	86.79	4.35
17.0	22.52	35.64	24.56	86.95	4.38
18.0	22.44	35.66	24.59	87.10	4.38
19.0	22.40	35.67	24.61	86.93	4.36
20.0	22.40	35.71	24.65	86.77	4.40
21.0	22.48	35.82	24.71	86.98	4.38
22.0	22.47	35.86	24.74	87.24	4.41
23.0	22.40	35.88	24.78	87.38	4.32
24.0	22.36	35.91	24.81	87.38	4.41
25.0	22.35	35.95	24.84	87.53	4.41
26.0	22.38	36.02	24.88	87.61	4.38
27.0	22.35	36.04	24.91	87.61	4.41
28.0	22.39	36.14	24.98	87.53	4.33
29.0	22.37	36.17	25.00	87.92	4.34
30.0	22.20	36.16	25.05	88.05	4.35
31.0	21.52	36.14	25.22	87.99	4.30
32.0	21.07	36.14	25.35	87.62	4.17
33.0	20.89	36.14	25.40	87.29	4.23
34.0	20.89	36.22	25.45	86.96	4.21
35.0	20.89	36.26	25.49	87.26	4.16
36.0	20.83	36.26	25.50	87.03	4.10
37.0	20.76	36.25	25.52	86.41	3.91
38.0	20.70	36.25	25.53	85.57	3.88
39.0	20.63	36.26	25.55	83.74	3.69
40.0	20.54	36.26	25.58	81.36	3.50
41.0	20.48	36.26	25.60	80.05	3.45
42.0	20.41	36.26	25.61	79.25	3.30
43.0	20.32	36.25	25.63	78.63	3.20
44.0	20.27	36.24	25.64	77.88	3.20
45.0	20.23	36.23	25.64	77.46	3.15
46.0	20.21	36.23	25.64	76.94	3.12
47.0	20.20	36.23	25.65	76.48	3.12
48.0	20.18	36.22	25.65	75.72	3.06
49.0	20.17	36.22	25.65	75.54	3.07
50.0	20.16	36.22	25.65	75.70	2.88
51.0	20.15	36.22	25.66	75.51	2.87
52.0	20.08	36.22	25.68	75.18	2.84
53.0	19.94	36.23	25.72	75.56	2.75
54.0	19.51	36.27	25.86	75.92	2.74
55.0	19.26	36.29	25.94	77.15	2.68
56.0	19.11	36.29	25.98	77.78	2.66
57.0	18.82	36.30	26.06	78.11	2.73
58.0	18.56	36.32	26.15	79.52	2.79
59.0	18.38	36.33	26.20	80.52	2.76
60.0	18.21	36.33	26.24	82.10	2.72
61.0	18.09	36.33	26.27	82.30	2.70
62.0	17.92	36.33	26.31	82.62	2.72
63.0	17.86	36.32	26.32	83.45	2.72
64.0	17.76	36.32	26.34	83.31	2.67
65.0	17.54	36.30	26.38	83.16	2.69
66.0	17.04	36.25	26.47	83.31	2.70
67.0	16.97	36.24	26.47	83.50	2.68
68.0	16.90	36.23	26.48	83.71	2.64
69.0	16.71	36.21	26.52	83.69	2.69
70.0	16.52	36.21	26.55	83.83	2.67
71.0	16.45	36.20	26.57	83.24	2.73
72.0	16.44	36.19	26.57	82.56	2.65
73.0	16.42	36.19	26.57	82.34	2.67
74.0	16.39	36.19	26.57	82.36	2.65
75.0	16.38	36.18	26.57	82.26	2.63
76.0	16.36	36.18	26.57	82.20	2.63
77.0	16.30	36.17	26.58	82.39	2.62
78.0	16.30	36.17	26.58	81.77	2.64
79.0	16.30	36.17	26.58	81.09	2.57
80.0	16.29	36.17	26.58	80.90	2.64
81.0	16.30	36.17	26.58	80.74	2.60
82.0	16.29	36.16	26.58	80.66	2.61
83.0	16.28	36.16	26.58	80.35	2.63
84.0	16.28	36.16	26.58	79.65	2.59
85.0	16.28	36.16	26.58	79.39	2.58
86.0	16.28	36.16	26.58	79.01	2.63
87.0	16.27	36.16	26.58	79.03	2.61
88.0	16.26	36.16	26.58	78.21	2.56
89.0	16.26	36.16	26.58	77.16	2.65
90.0	16.26	36.16	26.58	76.66	2.59

Position: 28 30.1 N, 90 15.1 W Time: 22:56 Z, 16 May 92 File: 9213727.cnv Depth: 50 m





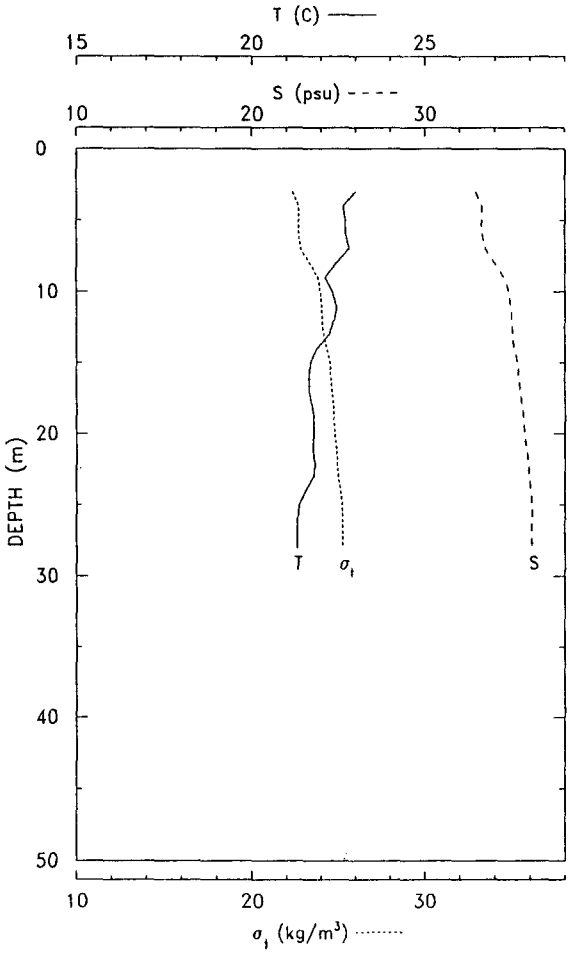
CAST 30

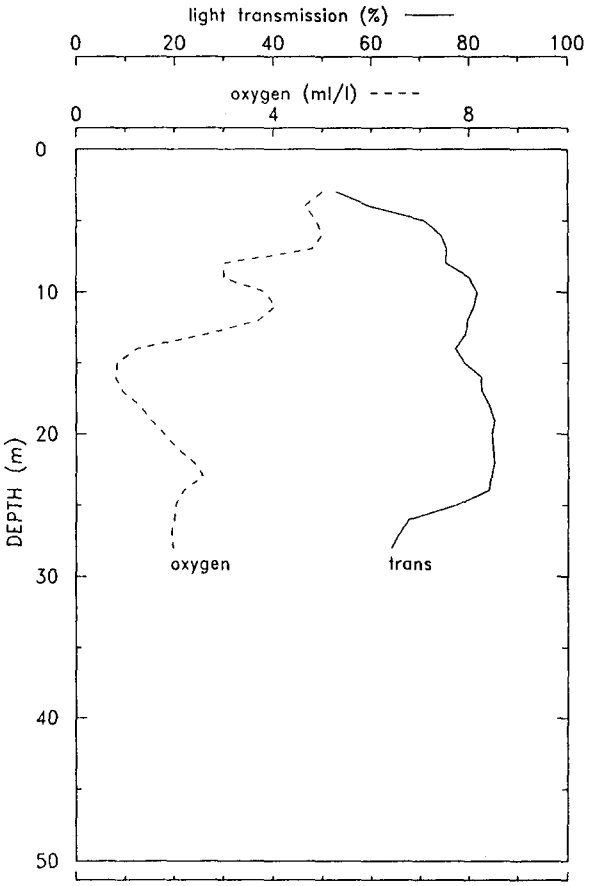
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.85	33.38	22.17	81.83	4.19
3.0	24.85	33.37	22.16	81.96	4.22
4.0	24.83	33.38	22.17	81.90	4.26
5.0	24.61	33.46	22.30	81.70	4.39
6.0	23.92	33.84	22.79	80.39	4.37
7.0	23.37	34.44	23.40	79.64	4.39
8.0	23.07	34.80	23.77	81.12	4.37
9.0	22.97	34.90	23.87	81.94	4.32
10.0	22.82	34.99	23.97	82.45	4.30
11.0	22.77	35.05	24.04	83.39	4.29
12.0	22.96	35.28	24.16	84.07	4.26
13.0	23.05	35.40	24.23	84.50	4.20
14.0	23.04	35.42	24.24	85.49	4.20
15.0	23.02	35.42	24.25	85.78	4.19
16.0	22.69	35.46	24.37	85.97	4.25
17.0	22.56	35.56	24.48	86.38	4.27
18.0	22.62	35.66	24.54	86.49	4.22
19.0	22.62	35.70	24.58	86.65	4.28
20.0	22.62	35.73	24.60	86.90	4.27
21.0	22.61	35.76	24.63	86.98	4.23
22.0	22.56	35.79	24.66	87.11	4.18
23.0	22.50	35.82	24.70	87.14	4.23
24.0	22.44	35.89	24.77	87.28	4.11
25.0	22.06	35.90	24.89	87.22	4.01

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
26.0	21.67	35.92	25.01	87.14	3.92
27.0	21.53	36.04	25.14	86.96	3.88
28.0	21.30	36.13	25.27	86.84	3.53
29.0	20.93	36.13	25.38	86.49	3.57
30.0	20.79	36.17	25.45	85.53	3.51
31.0	20.67	36.20	25.50	85.27	3.41
32.0	20.55	36.22	25.55	85.05	3.35
33.0	20.51	36.23	25.56	83.90	3.34
34.0	20.49	36.23	25.57	82.80	3.24
35.0	20.46	36.23	25.58	81.60	3.22
36.0	20.46	36.22	25.58	81.14	3.23
37.0	20.45	36.22	25.58	80.80	3.19
38.0	20.44	36.22	25.58	80.52	3.00
39.0	20.40	36.22	25.59	80.24	2.76
40.0	20.30	36.22	25.61	79.99	2.41
41.0	20.06	36.22	25.68	79.51	2.34
42.0	19.98	36.22	25.70	77.23	2.31
43.0	19.98	36.22	25.70	74.01	2.29
44.0	19.98	36.22	25.70	71.12	2.29
45.0	19.97	36.22	25.70	69.41	2.27
46.0	19.96	36.22	25.70	68.17	2.26
47.0	19.83	36.22	25.74	67.60	2.18
48.0	19.07	36.25	25.96	67.04	2.04

CAST 31

Position: 28 41.2 N, 90 15.2 W Time: 00:22 Z, 17 May 92 File: 9213802.cnv Depth: 30 m





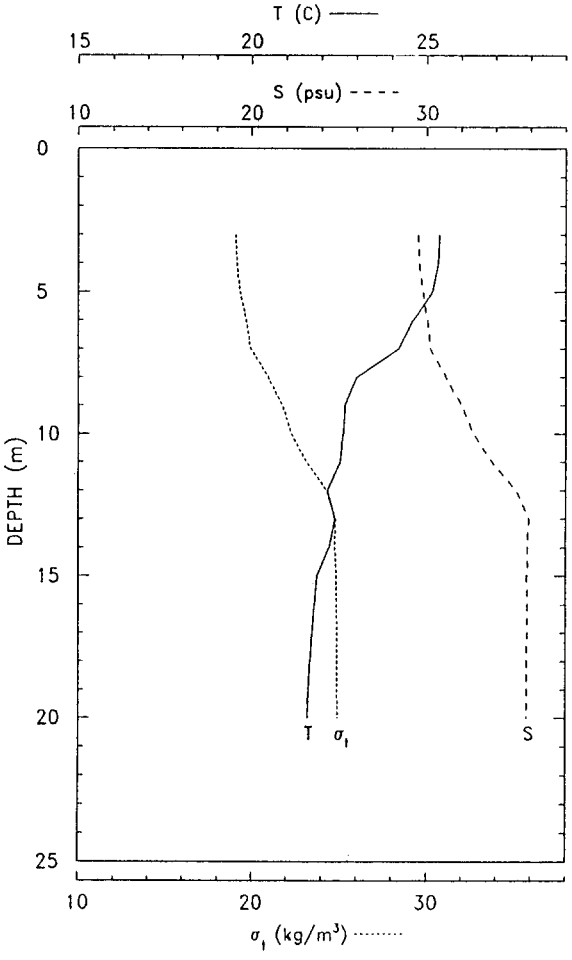
CAST 31

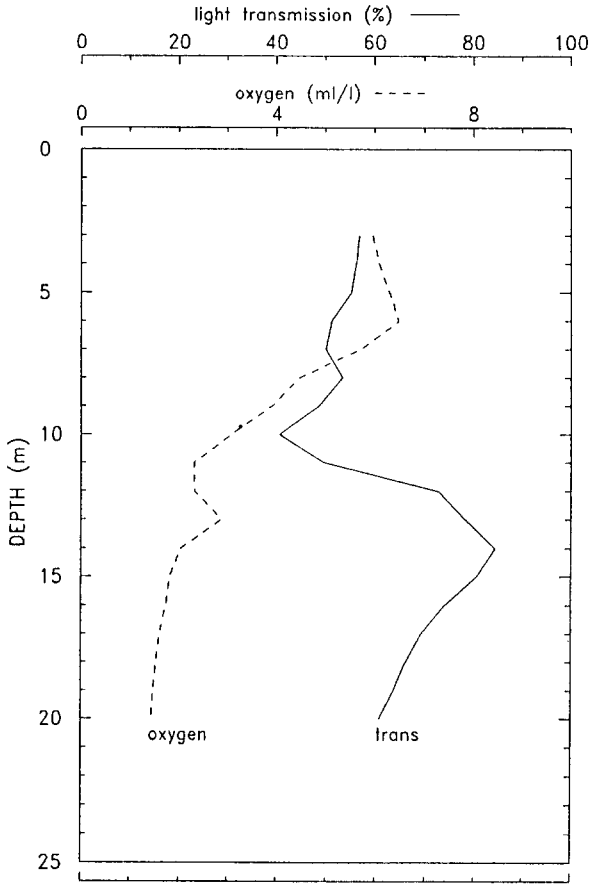
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.01	32.91	22.35	52.89	4.99
4.0	22.64	33.23	22.69	59.70	4.65
5.0	22.70	33.24	22.68	70.74	4.87
6.0	22.72	33.28	22.71	74.25	5.00
7.0	22.81	33.45	22.82	75.44	4.79
8.0	22.44	33.96	23.31	75.27	3.01
9.0	22.12	34.56	23.85	80.04	3.00
10.0	22.33	34.79	23.96	81.68	3.85
11.0	22.45	34.91	24.02	81.00	4.05
12.0	22.38	34.95	24.07	79.64	3.70
13.0	22.24	35.02	24.16	79.29	2.64
14.0	21.88	35.11	24.33	77.25	1.23
15.0	21.68	35.28	24.52	79.10	0.83

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
16.0	21.65	35.36	24.59	82.50	0.81
17.0	21.66	35.43	24.64	82.72	0.96
18.0	21.73	35.54	24.71	84.21	1.29
19.0	21.79	35.61	24.74	85.16	1.51
20.0	21.79	35.71	24.81	84.76	1.80
21.0	21.76	35.80	24.90	84.96	2.07
22.0	21.81	35.88	24.94	85.22	2.40
23.0	21.80	35.97	25.01	84.56	2.60
24.0	21.54	36.06	25.15	84.08	2.19
25.0	21.36	36.09	25.23	77.46	2.03
26.0	21.32	36.10	25.24	67.73	2.00
27.0	21.31	36.10	25.25	65.84	1.96
28.0	21.30	36.10	25.25	64.14	1.98

CAST 32

Position: 28 52.0 N, 90 15.2 W Time: 01:46 Z, 17 May 92 File: 9213804.cnv Depth: 22 m



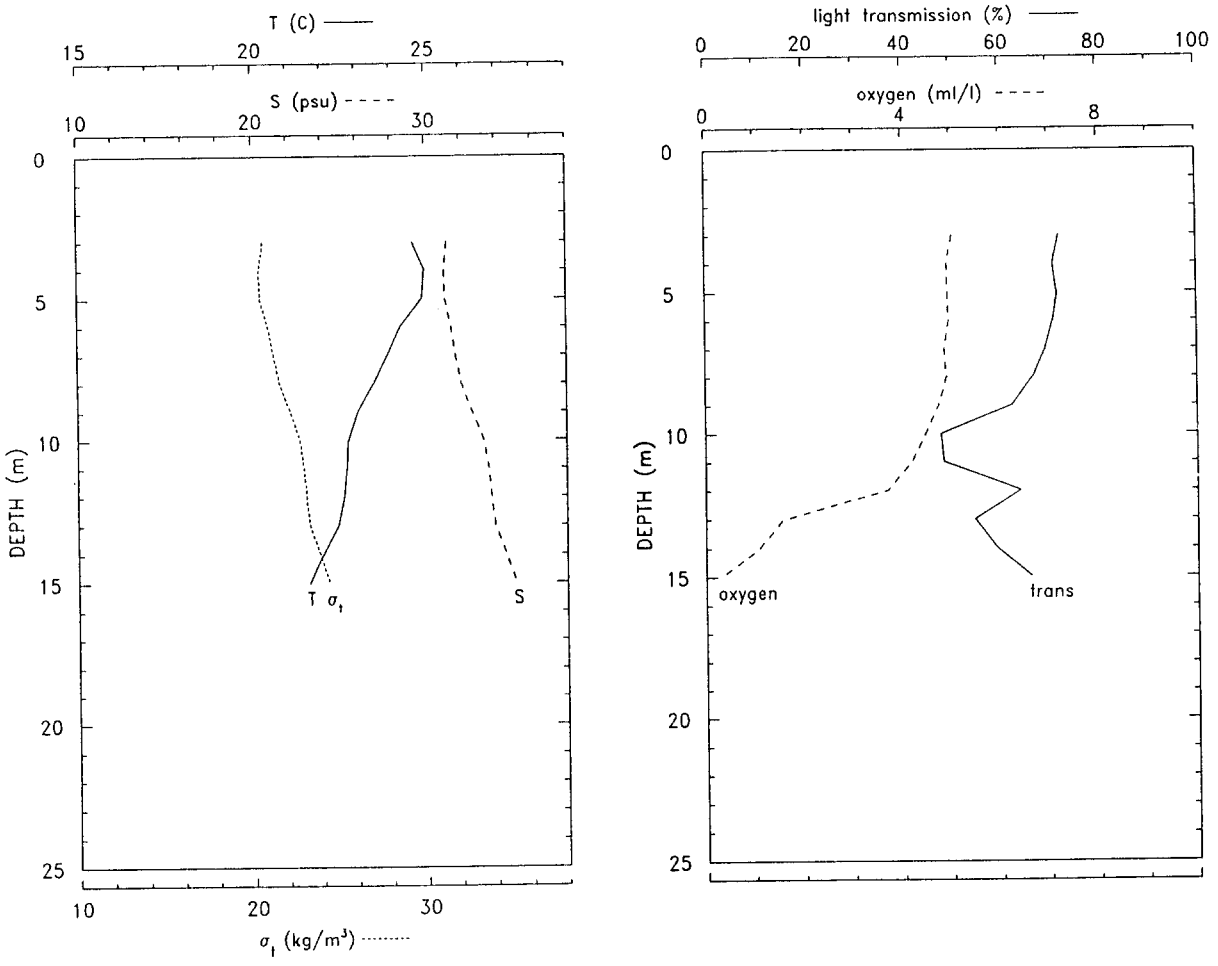


CAST 32

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.38	29.51	19.09	56.95	5.96
4.0	25.33	29.58	19.15	56.32	6.09
5.0	25.16	29.78	19.35	55.28	6.30
6.0	24.61	30.04	19.72	51.27	6.50
7.0	24.21	30.21	19.96	50.06	5.71
8.0	23.01	31.11	20.99	53.53	4.47
9.0	22.67	32.04	21.79	48.71	3.92
10.0	22.62	32.72	22.32	40.66	3.09
11.0	22.54	33.80	23.16	49.80	2.32
12.0	22.17	35.19	24.31	72.84	2.32
13.0	22.39	35.91	24.80	78.34	2.88
14.0	22.22	35.82	24.78	84.44	2.05
15.0	21.88	35.79	24.86	80.63	1.81
16.0	21.81	35.81	24.89	74.05	1.73
17.0	21.75	35.80	24.90	69.35	1.61
18.0	21.69	35.79	24.91	66.26	1.54
19.0	21.64	35.79	24.92	63.82	1.48
20.0	21.61	35.78	24.92	60.83	1.45

CAST 33

Position: 28 50.0 N, 90 30.6 W Time: 03:28 Z, 17 May 92 File: 9213806.cnv Depth: 18 m

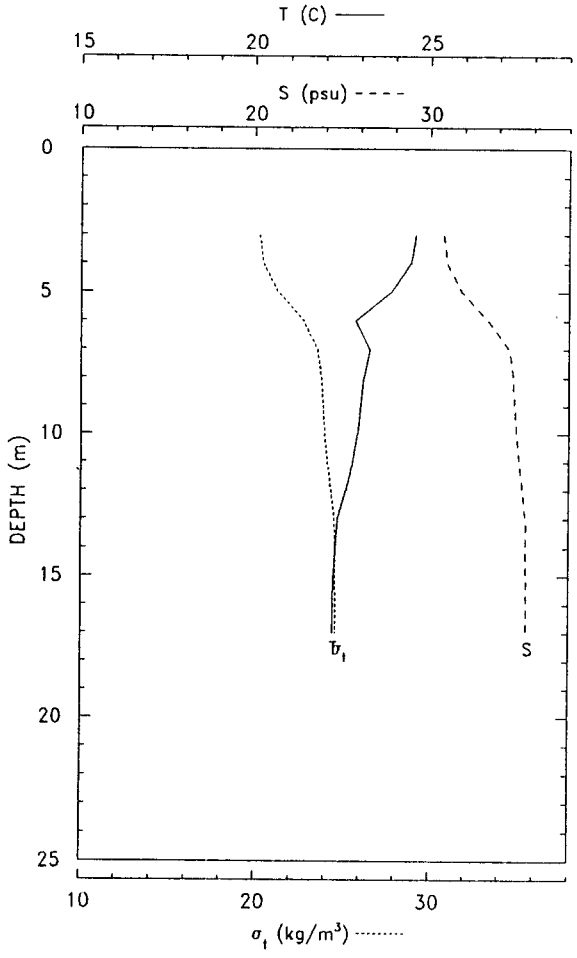


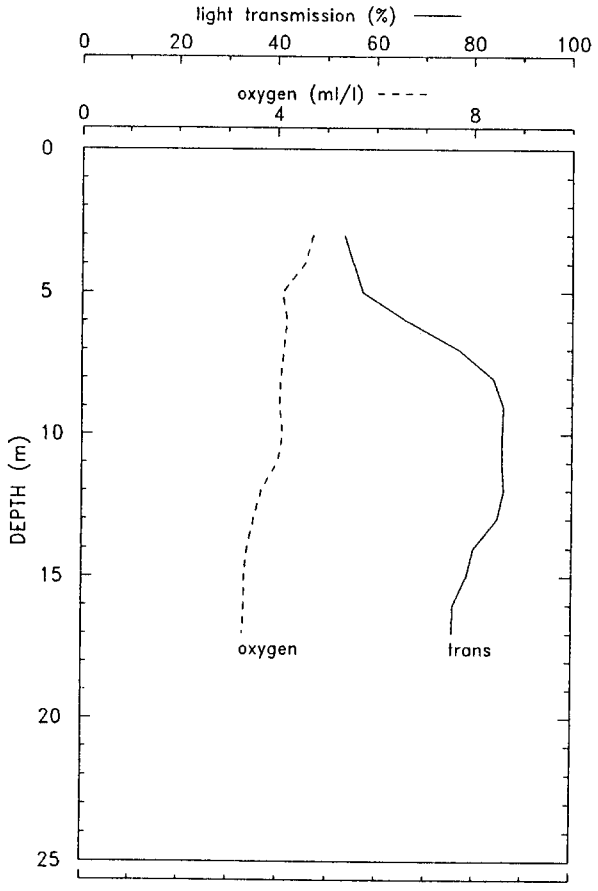
CAST 33

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.63	31.29	20.65	72.21	5.05
4.0	24.98	31.09	20.40	70.97	4.93
5.0	24.91	31.14	20.46	71.82	4.94
6.0	24.27	31.50	20.92	70.94	4.96
7.0	23.89	31.74	21.21	69.36	4.87
8.0	23.49	32.05	21.56	66.76	4.92
9.0	23.03	32.67	22.16	62.38	4.74
10.0	22.75	33.31	22.72	47.93	4.48
11.0	22.72	33.59	22.94	48.58	4.18
12.0	22.63	33.75	23.09	64.13	3.69
13.0	22.46	33.93	23.28	54.64	1.58
14.0	22.01	34.55	23.87	59.24	1.09
15.0	21.63	35.10	24.40	66.35	0.30

CAST 34

Position: 28 40.2 N, 90 30.1 W Time: 05:05 Z, 17 May 92 File: 9213808.cnv Depth: 19 m



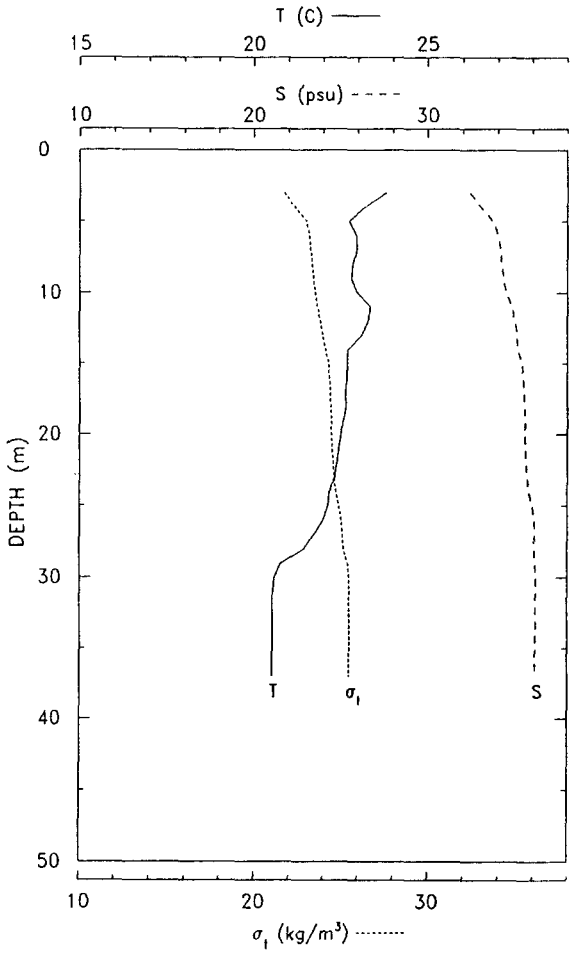


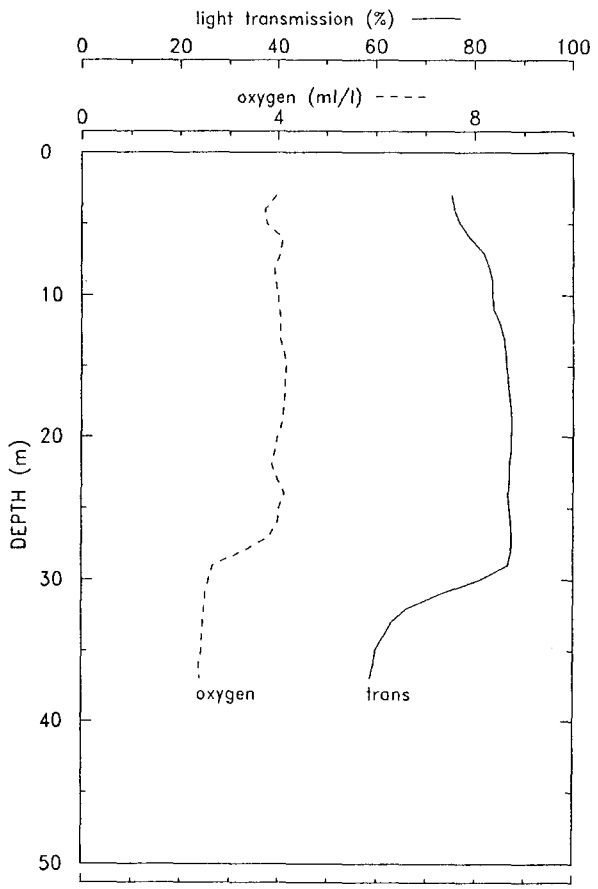
CAST 34

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.59	30.76	20.27	53.50	4.72
4.0	24.45	30.98	20.47	55.39	4.56
5.0	23.88	31.86	21.31	57.28	4.11
6.0	22.87	33.38	22.74	66.38	4.20
7.0	23.28	34.62	23.56	77.06	4.14
8.0	23.10	34.85	23.79	83.99	4.08
9.0	23.02	34.94	23.89	86.16	4.06
10.0	22.93	35.04	23.98	85.92	4.12
11.0	22.79	35.19	24.14	85.83	4.01
12.0	22.60	35.39	24.35	86.23	3.69
13.0	22.36	35.56	24.54	84.83	3.54
14.0	22.31	35.57	24.57	80.06	3.41
15.0	22.26	35.59	24.60	78.62	3.35
16.0	22.23	35.60	24.61	75.96	3.34
17.0	22.23	35.59	24.60	75.79	3.31

CAST 35

Position: 28 30.0 N, 90 30.0 W Time: 06:34 Z, 17 May 92 File: 9213810.cnv Depth: 38 m





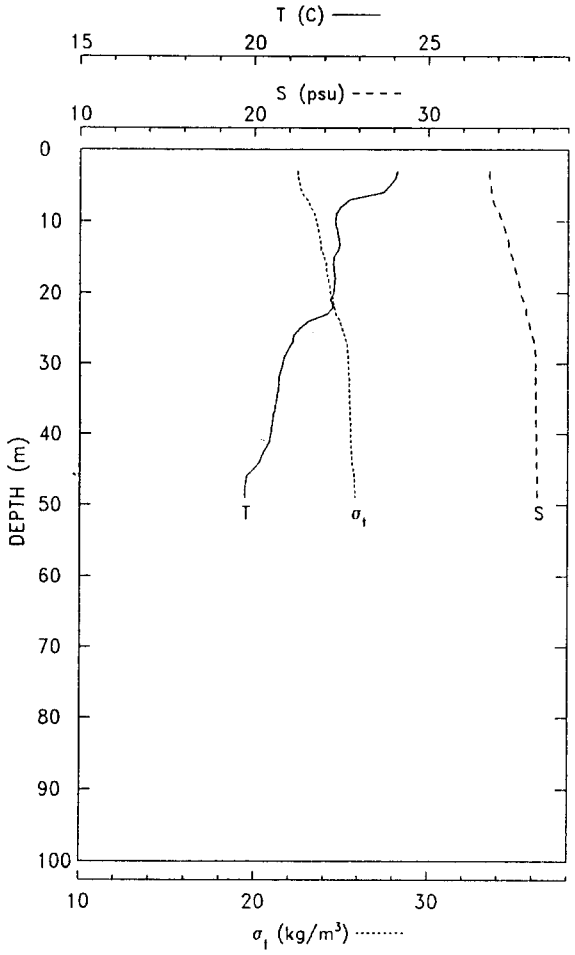
CAST 35

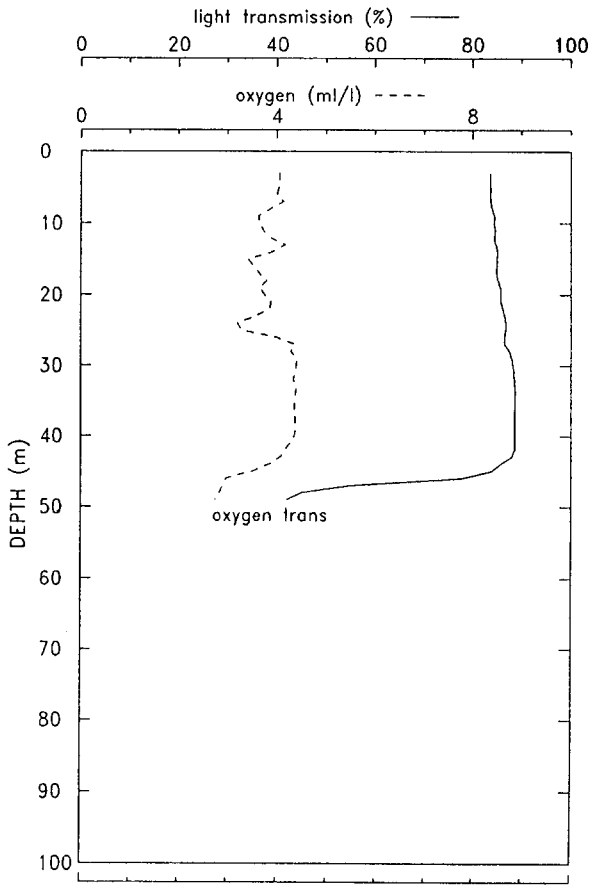
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.81	32.39	21.73	75.27	3.97
4.0	23.21	33.04	22.39	75.92	3.73
5.0	22.75	33.74	23.05	77.14	3.78
6.0	22.96	34.01	23.20	79.12	4.10
7.0	22.98	34.13	23.28	81.69	4.05
8.0	22.86	34.24	23.40	82.81	3.93
9.0	22.81	34.30	23.46	83.55	3.96
10.0	22.99	34.48	23.54	83.51	4.01
11.0	23.35	34.78	23.67	83.76	4.02
12.0	23.29	34.98	23.84	85.16	4.06
13.0	23.10	35.09	23.98	85.86	4.05
14.0	22.72	35.17	24.15	86.20	4.13
15.0	22.70	35.38	24.31	86.40	4.18
16.0	22.69	35.47	24.38	86.77	4.15
17.0	22.65	35.52	24.43	87.03	4.15
18.0	22.67	35.55	24.45	87.33	4.12
19.0	22.58	35.55	24.47	87.47	4.09
20.0	22.52	35.56	24.50	87.37	4.00

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
21.0	22.46	35.59	24.54	87.36	3.94
22.0	22.40	35.62	24.58	86.97	3.88
23.0	22.33	35.66	24.63	86.92	3.98
24.0	22.21	35.80	24.77	86.71	4.14
25.0	22.15	35.98	24.92	86.91	4.02
26.0	22.00	36.10	25.05	87.11	3.99
27.0	21.75	36.10	25.13	87.33	3.82
28.0	21.45	36.12	25.22	87.36	3.30
29.0	20.78	36.15	25.43	86.69	2.66
30.0	20.60	36.18	25.50	81.09	2.57
31.0	20.56	36.18	25.51	72.97	2.51
32.0	20.55	36.18	25.51	66.26	2.49
33.0	20.55	36.18	25.51	63.08	2.47
34.0	20.55	36.17	25.51	61.46	2.44
35.0	20.55	36.17	25.51	59.75	2.43
36.0	20.55	36.17	25.51	59.48	2.39
37.0	20.55	36.17	25.51	58.80	2.40

CAST 36

Position: 28 20.0 N, 90 29.9 W Time: 08:00 Z, 17 May 92 File: 9213812.cnv Depth: 53 m



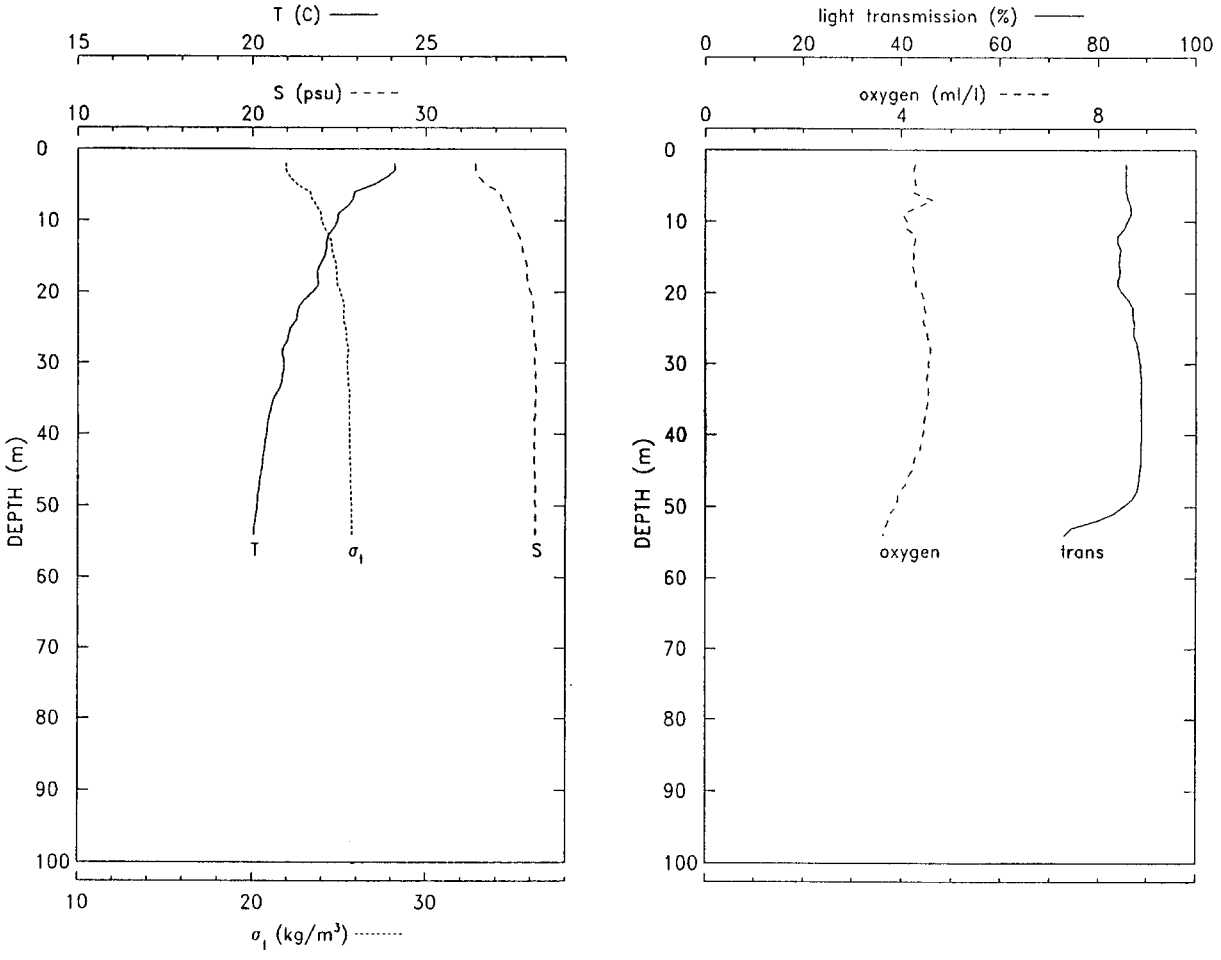


CAST 36

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.12	33.52	22.49	83.68	4.06
4.0	24.06	33.54	22.52	83.64	4.06
5.0	23.89	33.60	22.61	83.72	4.05
6.0	23.70	33.64	22.71	83.59	4.01
7.0	22.74	33.71	23.03	83.70	4.13
8.0	22.49	33.88	23.23	83.99	3.87
9.0	22.35	34.11	23.45	84.48	3.63
10.0	22.32	34.26	23.57	84.35	3.66
11.0	22.37	34.39	23.65	84.69	3.73
12.0	22.41	34.53	23.74	84.48	3.86
13.0	22.44	34.63	23.81	84.86	4.18
14.0	22.43	34.66	23.84	85.16	3.92
15.0	22.28	34.82	24.00	85.04	3.42
16.0	22.26	34.97	24.12	85.06	3.53
17.0	22.30	35.04	24.17	84.98	3.65
18.0	22.33	35.14	24.23	85.34	3.80
19.0	22.30	35.25	24.33	85.77	3.65
20.0	22.28	35.31	24.37	85.83	3.76
21.0	22.19	35.46	24.51	85.88	3.89
22.0	22.28	35.63	24.62	86.24	3.85
23.0	22.10	35.65	24.69	86.62	3.58
24.0	21.55	35.77	24.93	86.83	3.20
25.0	21.30	35.84	25.05	86.82	3.30
26.0	21.13	35.97	25.19	86.61	4.00
27.0	21.10	36.10	25.30	86.63	4.37
28.0	20.98	36.14	25.37	87.66	4.29
29.0	20.88	36.17	25.42	88.13	4.41
30.0	20.83	36.17	25.43	88.39	4.40
31.0	20.77	36.16	25.45	88.52	4.39
32.0	20.72	36.16	25.46	88.70	4.34
33.0	20.70	36.17	25.47	88.76	4.40
34.0	20.69	36.19	25.49	88.78	4.38
35.0	20.66	36.20	25.50	88.78	4.36
36.0	20.61	36.20	25.52	88.76	4.36
37.0	20.57	36.20	25.53	88.64	4.38
38.0	20.54	36.20	25.53	88.71	4.37
39.0	20.51	36.20	25.54	88.62	4.39
40.0	20.48	36.21	25.56	88.69	4.36
41.0	20.45	36.21	25.56	88.66	4.28
42.0	20.35	36.21	25.59	88.65	4.16
43.0	20.25	36.23	25.63	88.01	4.07
44.0	20.17	36.23	25.66	85.73	3.85
45.0	19.99	36.25	25.72	83.86	3.51
46.0	19.79	36.27	25.79	77.69	2.98
47.0	19.76	36.27	25.80	55.31	2.92
48.0	19.75	36.27	25.80	45.12	2.85
49.0	19.75	36.27	25.80	42.05	2.77

CAST 37

Position: 28 20.0 N, 91 00.0 W Time: 13:22 Z, 17 May 92 File: 9213814.cnv Depth: 58 m

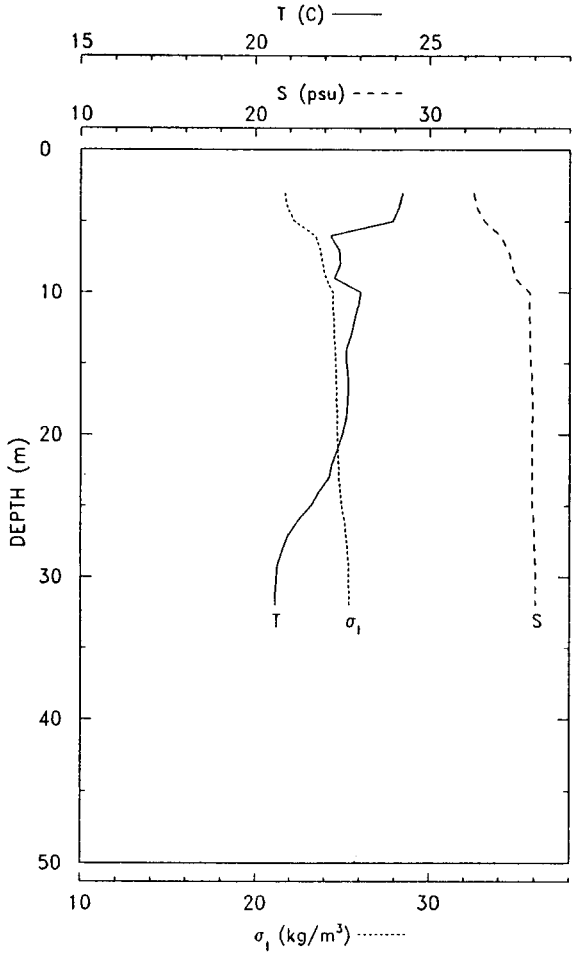


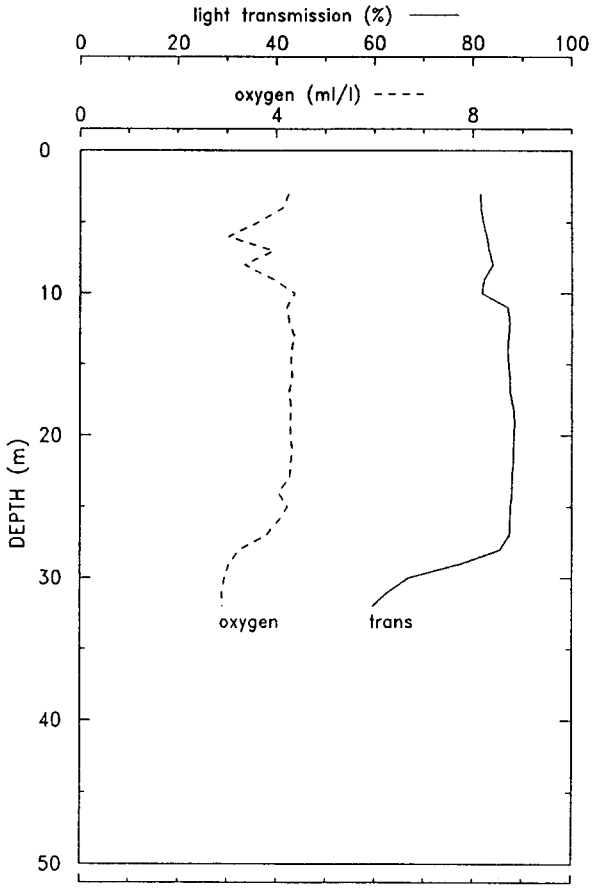
CAST 37

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.12	32.83	21.97	85.81	4.28
3.0	24.11	32.84	21.98	85.85	4.25
4.0	23.85	33.09	22.24	85.85	4.27
5.0	23.49	33.48	22.64	85.85	4.29
6.0	22.94	34.22	23.36	85.91	4.25
7.0	22.90	34.36	23.48	86.25	4.64
8.0	22.75	34.67	23.76	86.74	4.30
9.0	22.48	34.87	23.98	86.81	4.03
10.0	22.46	34.89	24.00	86.09	4.12
11.0	22.34	35.09	24.19	85.43	4.10
12.0	22.20	35.32	24.41	84.08	4.29
13.0	22.15	35.50	24.56	84.01	4.27
14.0	22.13	35.53	24.59	84.80	4.24
15.0	22.10	35.64	24.68	84.42	4.25
16.0	21.98	35.78	24.82	84.30	4.22
17.0	21.88	35.78	24.85	84.64	4.26
18.0	21.89	35.80	24.86	84.22	4.30
19.0	21.92	35.87	24.90	84.13	4.29
20.0	21.75	36.03	25.07	85.08	4.42
21.0	21.54	36.11	25.20	86.30	4.45
22.0	21.37	36.18	25.29	87.13	4.47
23.0	21.31	36.10	25.25	87.17	4.49
24.0	21.28	36.11	25.27	87.42	4.44
25.0	21.12	36.21	25.38	87.41	4.51
26.0	21.06	36.22	25.41	87.38	4.52
27.0	21.01	36.24	25.44	88.01	4.54
28.0	20.88	36.32	25.53	88.24	4.59
29.0	20.89	36.26	25.48	88.52	4.57
30.0	20.92	36.24	25.47	88.74	4.54
31.0	20.91	36.28	25.50	88.74	4.57
32.0	20.87	36.31	25.52	88.99	4.51
33.0	20.84	36.27	25.51	88.97	4.55
34.0	20.76	36.35	25.59	88.92	4.55
35.0	20.63	36.31	25.60	89.01	4.53
36.0	20.56	36.26	25.57	88.93	4.52
37.0	20.52	36.29	25.61	89.01	4.50
38.0	20.47	36.23	25.57	88.92	4.46
39.0	20.45	36.26	25.60	88.96	4.46
40.0	20.42	36.24	25.60	88.94	4.43
41.0	20.38	36.22	25.59	88.92	4.40
42.0	20.36	36.25	25.62	88.89	4.38
43.0	20.33	36.24	25.62	88.87	4.28
44.0	20.30	36.22	25.62	88.82	4.23
45.0	20.27	36.26	25.65	88.63	4.22
46.0	20.24	36.23	25.64	88.46	4.11
47.0	20.22	36.26	25.66	88.30	4.08
48.0	20.18	36.26	25.68	87.86	3.94
49.0	20.16	36.24	25.67	86.98	3.94
50.0	20.15	36.30	25.71	85.13	3.91
51.0	20.12	36.27	25.70	83.06	3.76
52.0	20.09	36.29	25.72	79.53	3.74
53.0	20.07	36.29	25.73	74.49	3.67
54.0	20.05	36.28	25.72	73.00	3.64

CAST 38

Position: 28 30.0 N, 91 00.0 W Time: 14:56 Z, 17 May 92 File: 9213816.cnv Depth: 34 m





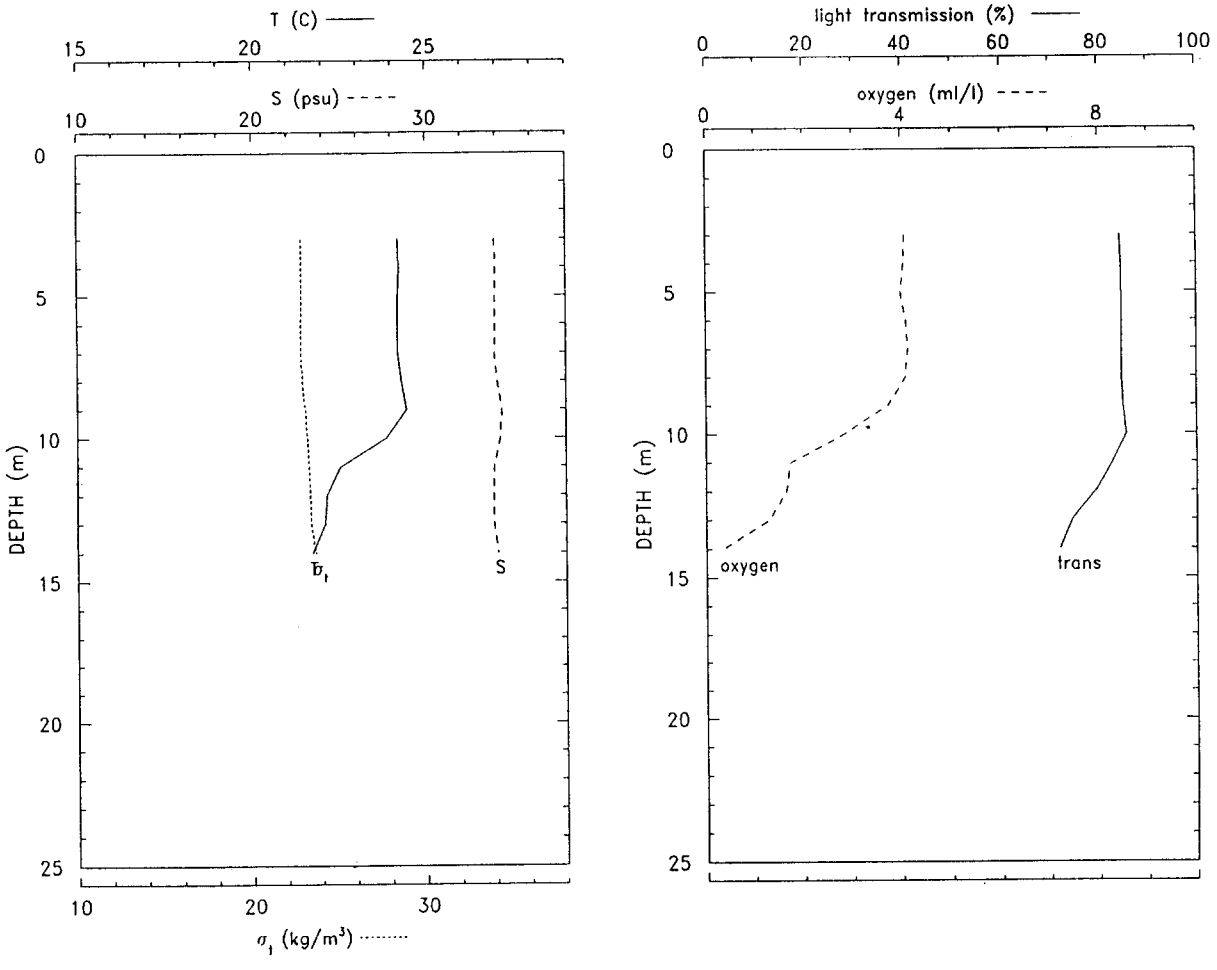
CAST 38

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.23	32.52	21.70	81.48	4.25
4.0	24.12	32.69	21.86	81.65	4.12
5.0	23.94	33.18	22.28	82.13	3.64
6.0	22.18	34.07	23.46	82.88	3.02
7.0	22.42	34.54	23.75	83.34	3.94
8.0	22.46	34.73	23.88	84.07	3.35
9.0	22.28	34.89	24.06	82.32	3.94
10.0	23.03	35.73	24.48	81.84	4.38
11.0	22.96	35.71	24.48	87.06	4.21
12.0	22.84	35.73	24.53	87.51	4.26
13.0	22.76	35.74	24.56	87.28	4.37
14.0	22.63	35.75	24.61	87.01	4.31
15.0	22.64	35.80	24.64	87.26	4.31
16.0	22.68	35.85	24.67	87.55	4.32
17.0	22.69	35.89	24.70	87.65	4.26

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
18.0	22.65	35.89	24.71	88.26	4.31
19.0	22.61	35.88	24.72	88.48	4.28
20.0	22.51	35.87	24.73	88.34	4.27
21.0	22.38	35.88	24.78	88.27	4.33
22.0	22.23	35.87	24.82	88.21	4.29
23.0	22.14	35.86	24.83	87.88	4.26
24.0	21.84	35.86	24.92	87.96	4.04
25.0	21.61	35.86	24.98	87.66	4.22
26.0	21.25	35.94	25.14	87.48	4.03
27.0	20.97	35.99	25.26	87.40	3.80
28.0	20.80	36.02	25.33	85.51	3.25
29.0	20.66	36.04	25.38	77.49	3.03
30.0	20.61	36.04	25.39	67.00	2.95
31.0	20.60	36.04	25.40	62.81	2.90
32.0	20.59	36.04	25.40	59.64	2.90

CAST 39

Position: 28 40.1 N, 91 00.1 W Time: 16:24 Z, 17 May 92 File: 9213818.cnv Depth: 15 m

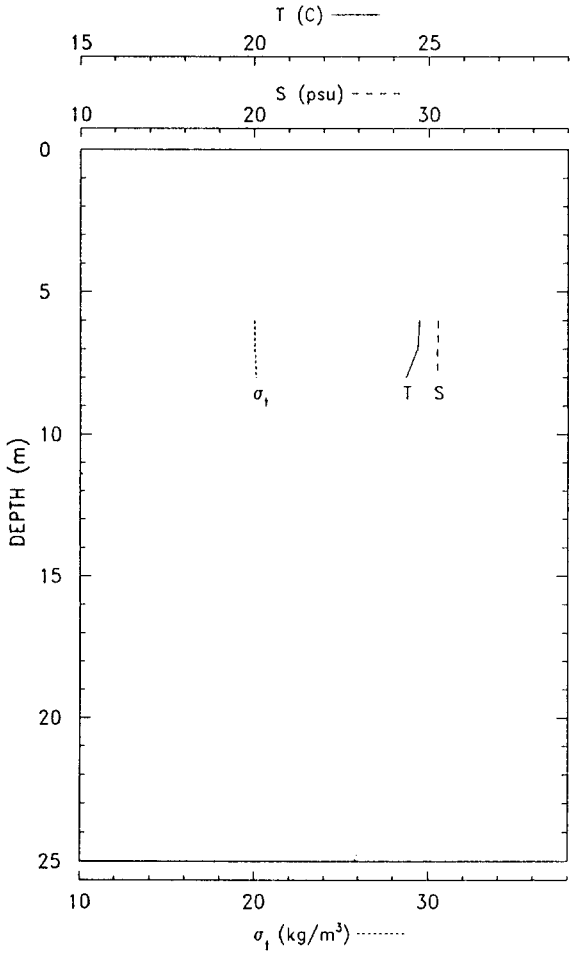


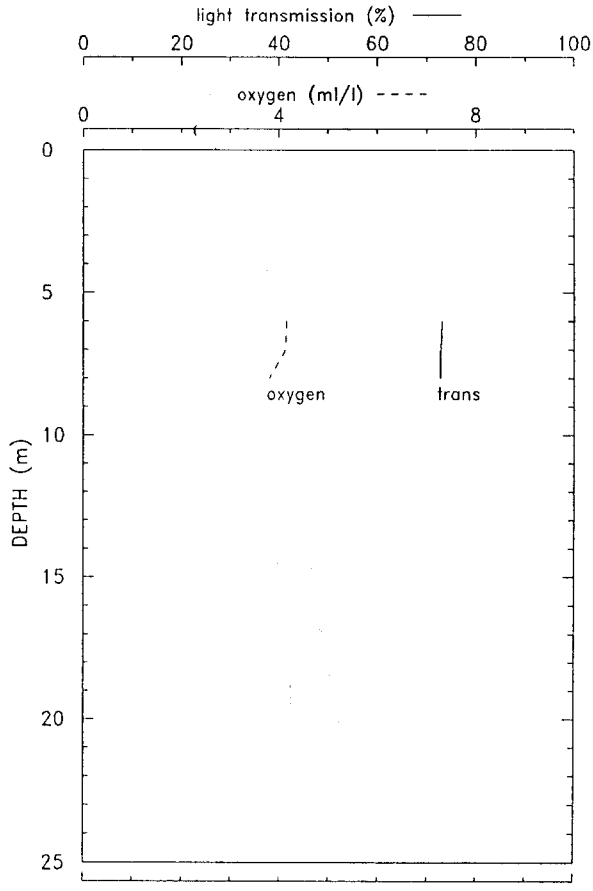
CAST 39

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.20	33.95	22.79	84.36	4.07
4.0	24.23	33.99	22.81	84.61	4.05
5.0	24.20	33.96	22.79	84.68	3.99
6.0	24.19	33.94	22.79	84.64	4.09
7.0	24.18	33.93	22.78	84.63	4.14
8.0	24.29	34.08	22.86	84.66	4.09
9.0	24.44	34.33	23.00	84.98	3.72
10.0	23.85	34.25	23.12	85.63	2.82
11.0	22.54	33.89	23.22	82.76	1.74
12.0	22.14	33.86	23.31	79.39	1.65
13.0	22.08	33.89	23.35	74.61	1.30
14.0	21.72	34.11	23.62	72.05	0.33

CAST 40

Position: 28 50.1 N, 91 00.2 W Time: 17:51 Z, 17 May 92 File: 9213820.cnv Depth: 9 m





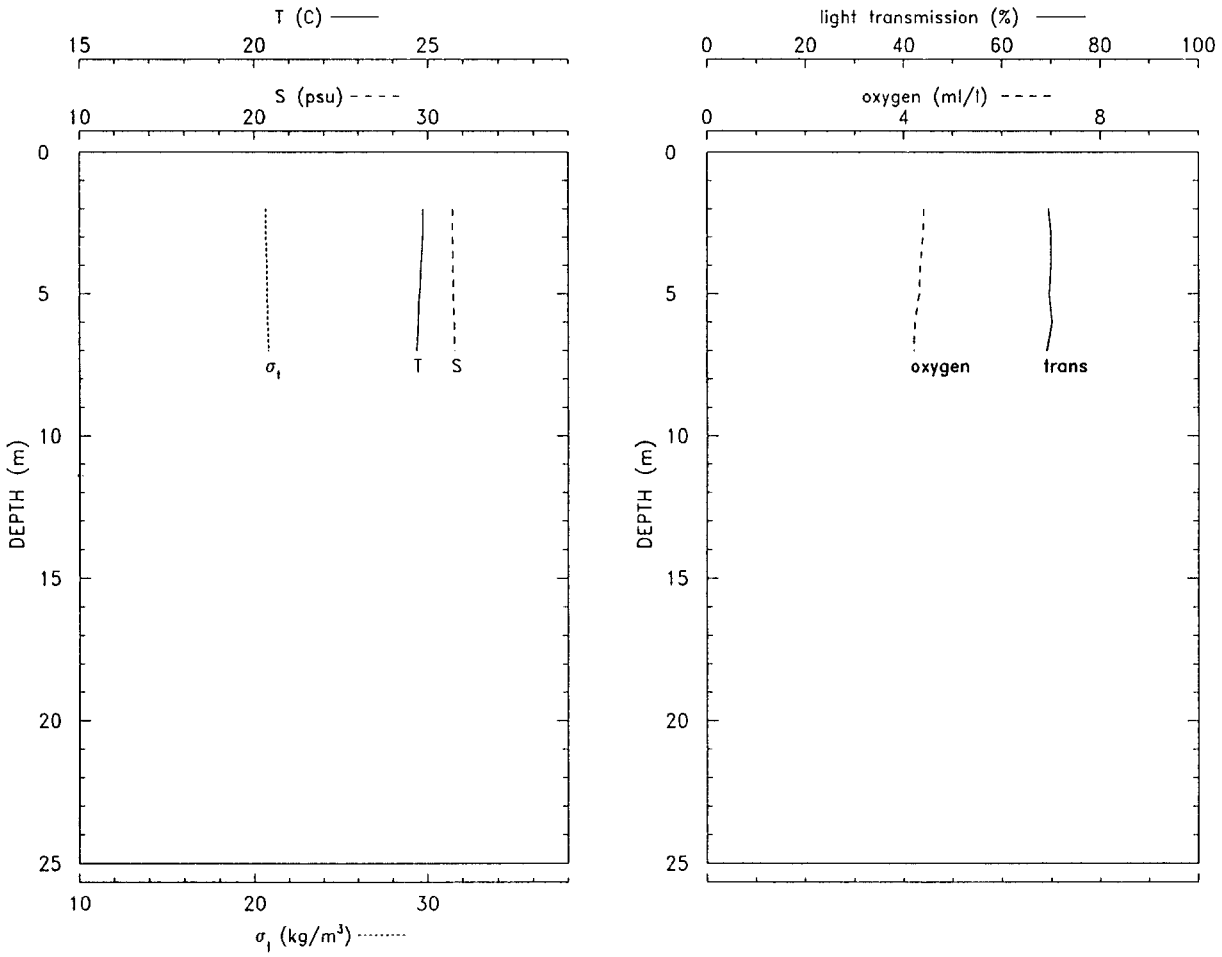
CAST 40

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
6.0	24.74	30.52	20.04	73.13	4.17
7.0	24.69	30.52	20.06	72.91	4.15
8.0	24.37	30.49	20.13	72.82	3.82

CAST 41 was deleted from cruise plan

CAST 42

Position: 29 00.6 N, 91 30.7 W Time: 21:08 Z, 17 May 92 File: 9213822.cnv Depth: 10 m

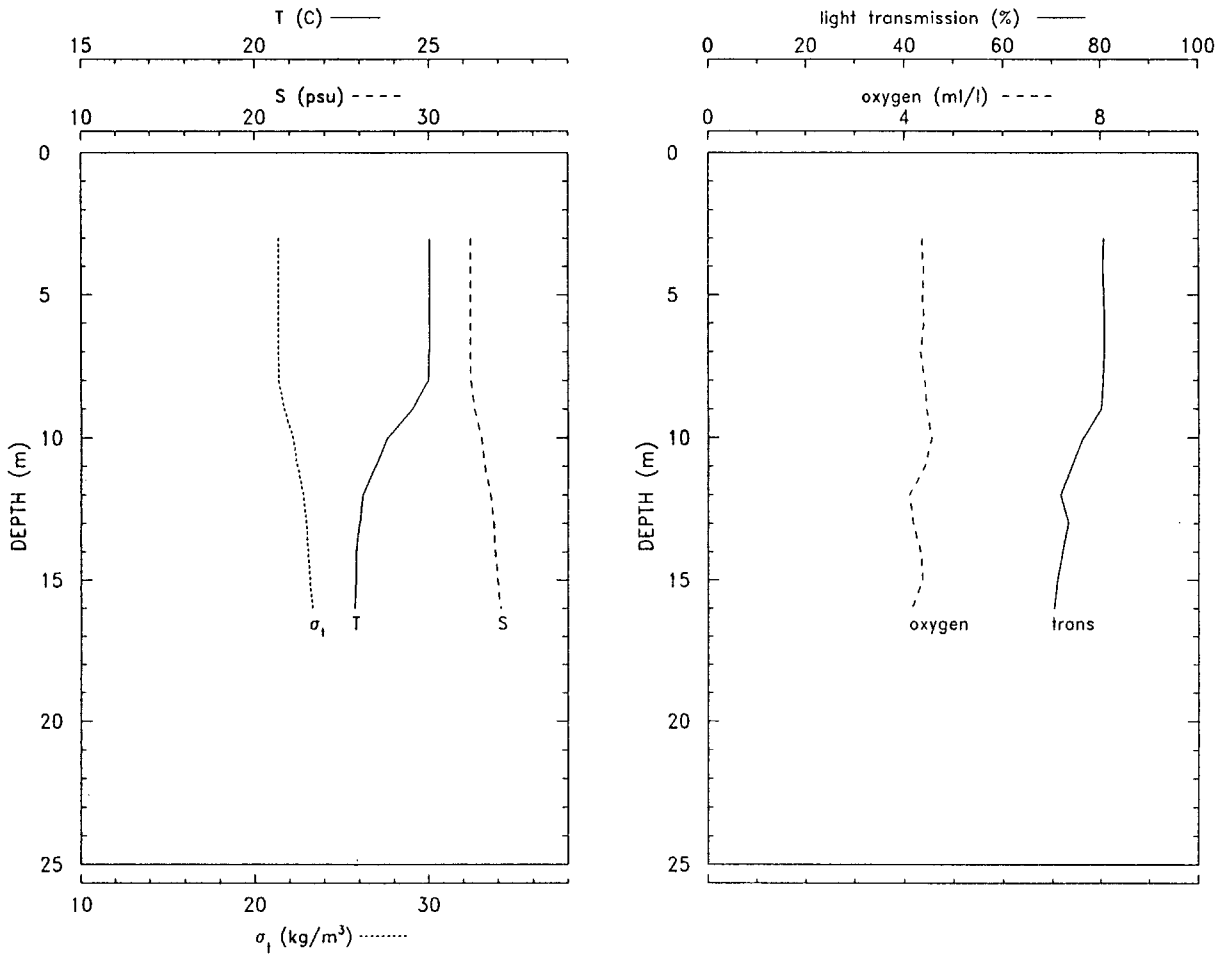


CAST 42

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.87	31.41	20.67	69.40	4.42
3.0	24.86	31.41	20.68	70.02	4.39
4.0	24.81	31.45	20.72	69.94	4.33
5.0	24.77	31.48	20.75	69.54	4.32
6.0	24.74	31.51	20.78	70.13	4.23
7.0	24.69	31.55	20.83	69.07	4.21

CAST 43

Position: 28 50.3 N, 91 30.4 W Time: 22:39 Z, 17 May 92 File: 9213824.cnv Depth: 19 m

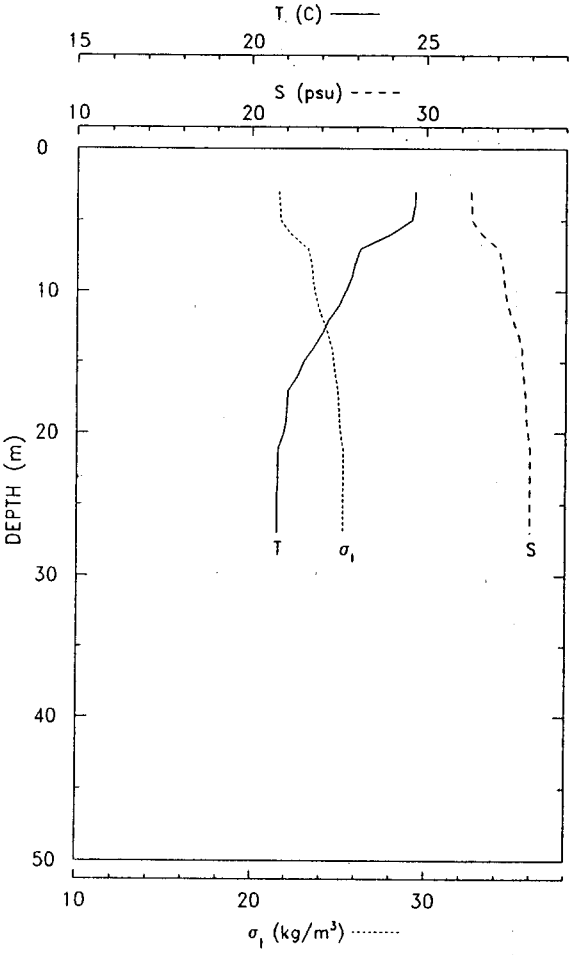


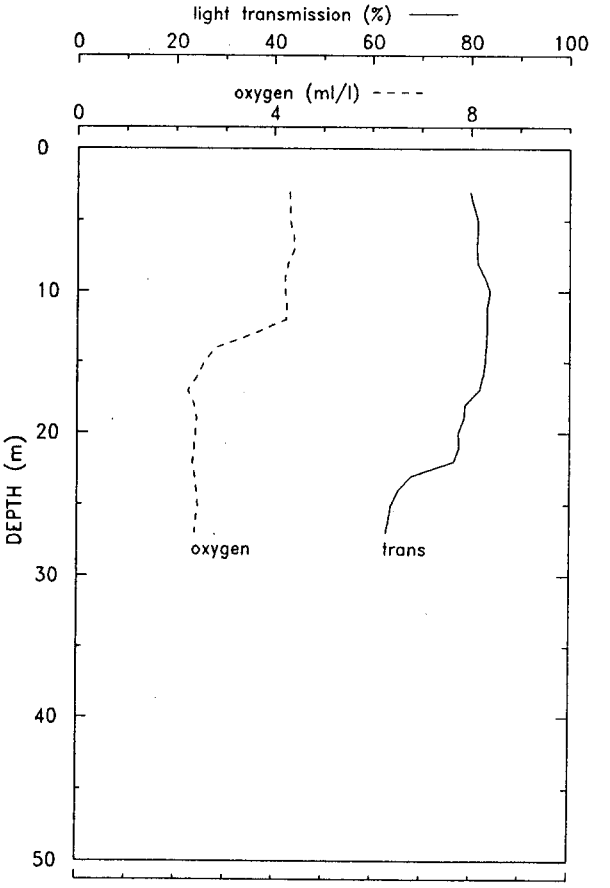
CAST 43

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.03	32.42	21.38	80.74	4.36
4.0	25.03	32.42	21.38	80.48	4.39
5.0	25.03	32.42	21.39	80.71	4.38
6.0	25.02	32.42	21.39	80.87	4.40
7.0	25.02	32.42	21.39	80.79	4.34
8.0	25.00	32.45	21.42	80.58	4.42
9.0	24.54	32.67	21.72	80.17	4.46
10.0	23.81	33.06	22.23	76.53	4.57
11.0	23.46	33.26	22.48	74.10	4.42
12.0	23.11	33.59	22.83	71.80	4.11
13.0	23.02	33.78	23.01	73.43	4.19
14.0	22.91	33.85	23.09	72.20	4.34
15.0	22.91	34.00	23.20	71.15	4.38
16.0	22.87	34.17	23.34	70.48	4.16

CAST 44

Position: 28 40.2 N, 91 30.1 W Time: 00:08 Z, 18 May 92 File: 9213902.cnv Depth: 28 m





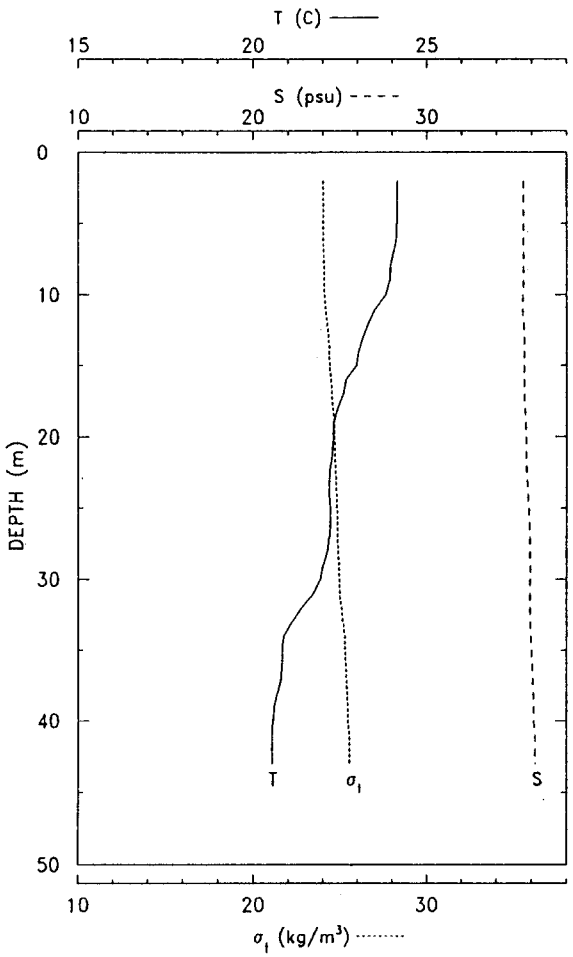
CAST 44

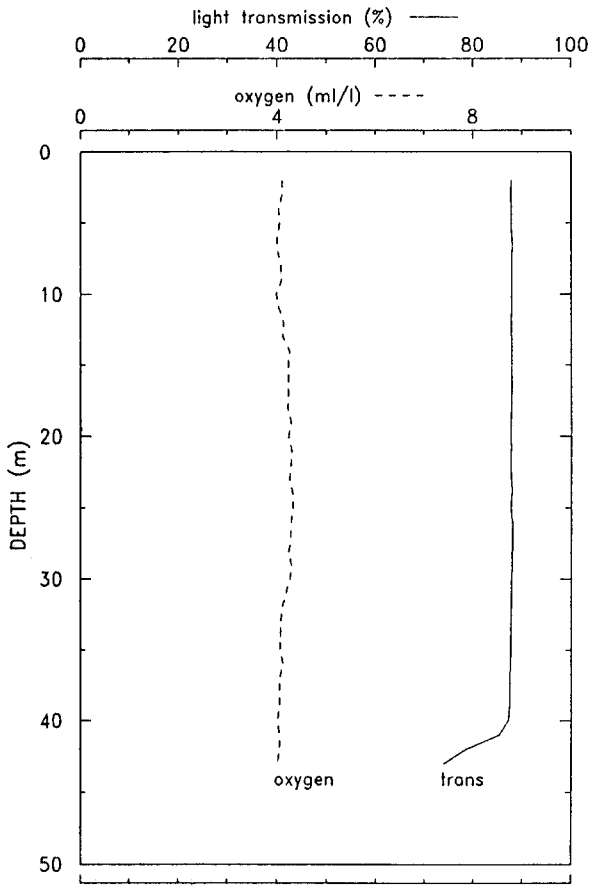
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.68	32.51	21.55	79.85	4.32
4.0	24.66	32.57	21.61	80.54	4.33
5.0	24.58	32.58	21.64	81.35	4.32
6.0	23.97	33.19	22.28	81.29	4.40
7.0	23.10	34.13	23.25	81.14	4.41
8.0	22.97	34.32	23.43	81.37	4.29
9.0	22.87	34.42	23.53	82.73	4.22
10.0	22.71	34.48	23.63	83.84	4.23
11.0	22.52	34.67	23.82	83.33	4.26
12.0	22.23	34.93	24.10	83.28	4.25
13.0	22.04	35.25	24.40	83.20	3.59
14.0	21.79	35.45	24.62	83.14	2.80
15.0	21.51	35.49	24.73	82.87	2.58

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
16.0	21.33	35.57	24.84	82.44	2.44
17.0	21.06	35.66	24.98	81.69	2.25
18.0	21.04	35.72	25.03	78.90	2.38
19.0	21.01	35.74	25.05	78.59	2.42
20.0	20.93	35.83	25.14	77.39	2.40
21.0	20.78	35.94	25.27	77.62	2.37
22.0	20.76	35.95	25.28	76.54	2.34
23.0	20.76	35.95	25.29	68.16	2.39
24.0	20.76	35.95	25.29	65.38	2.42
25.0	20.75	35.95	25.29	64.00	2.45
26.0	20.75	35.95	25.29	63.47	2.41
27.0	20.75	35.95	25.29	62.88	2.39

CAST 45

Position: 28 30.1 N, 91 30.1 W Time: 01:39 Z, 18 May 92 File: 9213904.cnv Depth: 45 m





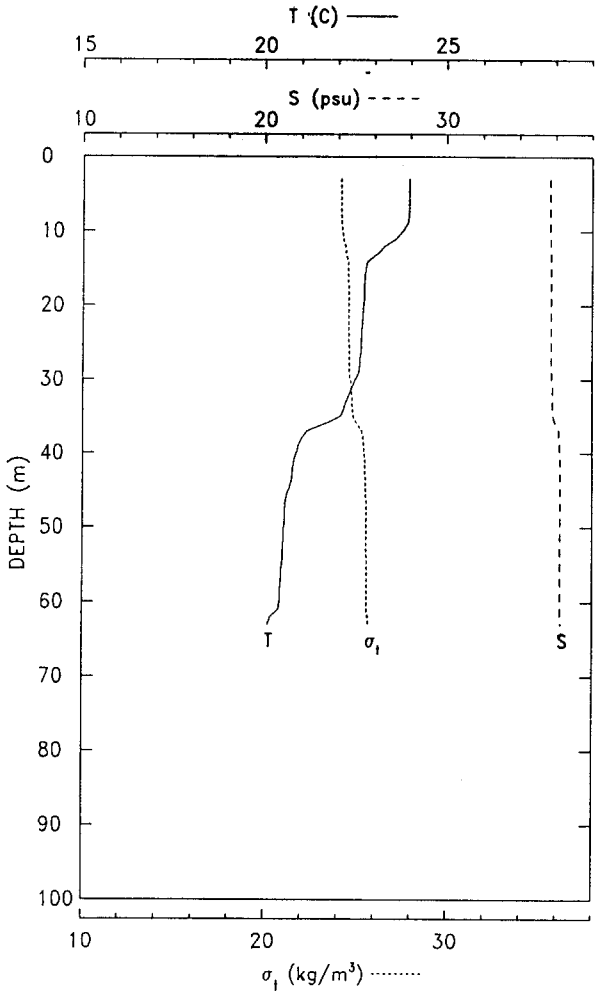
CAST 45

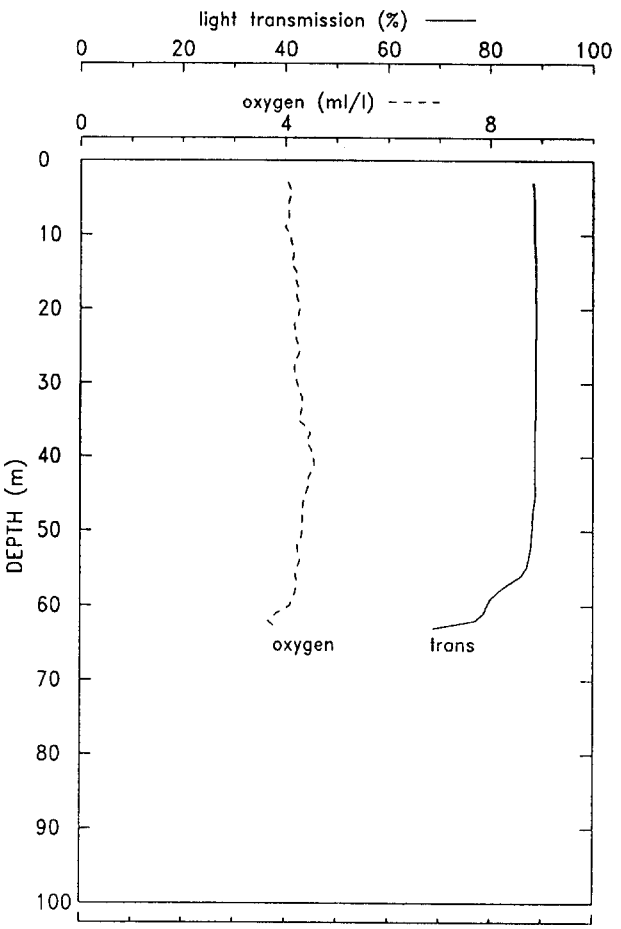
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.15	35.55	24.02	87.86	4.10
3.0	24.15	35.55	24.02	87.67	4.11
4.0	24.14	35.55	24.02	87.79	4.04
5.0	24.13	35.55	24.02	87.80	4.06
6.0	24.13	35.55	24.02	87.98	4.01
7.0	24.03	35.55	24.05	87.97	4.02
8.0	23.95	35.55	24.07	87.92	4.09
9.0	23.93	35.55	24.08	87.98	4.09
10.0	23.82	35.53	24.10	87.95	4.00
11.0	23.52	35.52	24.18	87.91	4.05
12.0	23.32	35.57	24.27	87.79	4.14
13.0	23.16	35.60	24.34	87.86	4.13
14.0	23.03	35.60	24.38	87.91	4.26
15.0	22.97	35.59	24.39	87.93	4.24
16.0	22.66	35.60	24.49	87.97	4.24
17.0	22.60	35.64	24.54	87.89	4.24
18.0	22.43	35.65	24.60	87.93	4.23
19.0	22.30	35.68	24.65	87.70	4.30
20.0	22.29	35.71	24.68	87.71	4.25
21.0	22.28	35.71	24.68	87.81	4.31
22.0	22.22	35.73	24.71	87.75	4.29

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
23.0	22.18	35.76	24.75	87.89	4.26
24.0	22.18	35.82	24.79	88.00	4.33
25.0	22.22	35.87	24.82	87.82	4.33
26.0	22.22	35.89	24.83	88.09	4.29
27.0	22.20	35.91	24.85	88.15	4.29
28.0	22.13	35.93	24.89	88.06	4.24
29.0	22.01	35.94	24.93	88.01	4.31
30.0	21.94	35.94	24.95	87.90	4.27
31.0	21.74	35.91	24.98	87.87	4.19
32.0	21.38	35.91	25.09	87.86	4.11
33.0	21.12	35.94	25.18	87.82	4.08
34.0	20.88	35.98	25.28	87.75	4.08
35.0	20.83	35.99	25.30	87.76	4.07
36.0	20.84	36.05	25.34	87.63	4.13
37.0	20.81	36.08	25.37	87.52	4.06
38.0	20.72	36.10	25.41	87.57	4.06
39.0	20.62	36.12	25.45	87.49	4.06
40.0	20.59	36.15	25.48	87.26	4.01
41.0	20.55	36.21	25.54	85.47	4.06
42.0	20.55	36.22	25.55	78.76	4.06
43.0	20.54	36.22	25.55	74.10	4.01

CAST 46

Position: 28 20.2 N, 91 30.1 W Time: 03:11 Z, 18 May 92 File: 9213906.cnv Depth: 65 m



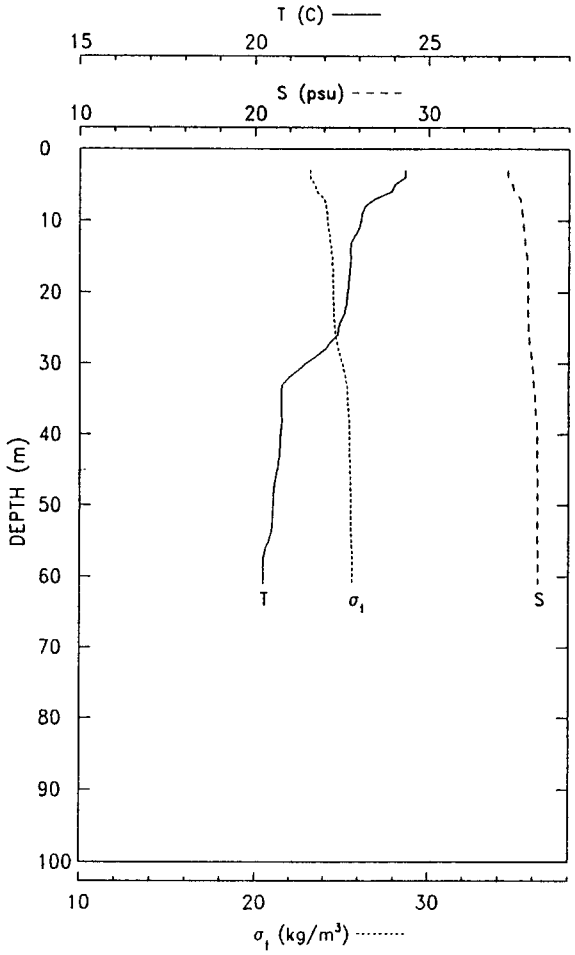


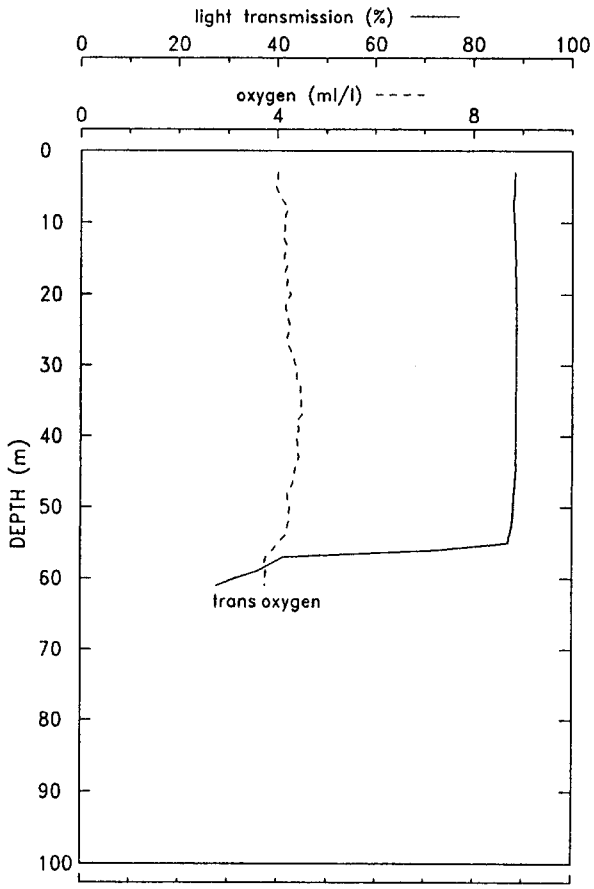
CAST 46

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.97	35.68	24.17	88.41	4.04
4.0	23.97	35.68	24.17	88.51	4.11
5.0	23.97	35.68	24.17	88.55	4.09
6.0	23.96	35.68	24.17	88.57	4.05
7.0	23.96	35.68	24.17	88.57	4.07
8.0	23.96	35.68	24.17	88.55	4.07
9.0	23.92	35.68	24.19	88.60	4.00
10.0	23.79	35.69	24.23	88.61	4.11
11.0	23.60	35.71	24.30	88.63	4.13
12.0	23.28	35.73	24.41	88.75	4.16
13.0	23.09	35.73	24.46	88.81	4.16
14.0	22.83	35.74	24.55	88.85	4.12
15.0	22.76	35.74	24.57	88.87	4.22
16.0	22.74	35.74	24.57	88.91	4.20
17.0	22.73	35.74	24.57	88.94	4.25
18.0	22.72	35.74	24.58	88.90	4.22
19.0	22.72	35.74	24.58	88.91	4.26
20.0	22.70	35.74	24.58	88.92	4.29
21.0	22.69	35.74	24.59	88.93	4.25
22.0	22.68	35.74	24.59	88.93	4.18
23.0	22.67	35.74	24.59	88.94	4.19
24.0	22.66	35.74	24.60	88.92	4.21
25.0	22.64	35.74	24.60	88.90	4.27
26.0	22.64	35.74	24.60	88.90	4.28
27.0	22.62	35.75	24.61	88.89	4.20
28.0	22.60	35.75	24.62	88.86	4.18
29.0	22.57	35.76	24.64	88.86	4.21
30.0	22.47	35.79	24.68	88.83	4.24
31.0	22.39	35.80	24.72	88.81	4.28
32.0	22.31	35.81	24.75	88.81	4.34
33.0	22.22	35.82	24.78	88.82	4.35
34.0	22.17	35.82	24.80	88.83	4.32
35.0	22.08	35.83	24.83	88.81	4.26
36.0	21.66	35.97	25.05	88.76	4.42
37.0	21.17	36.16	25.33	88.66	4.50
38.0	21.02	36.19	25.40	88.67	4.42
39.0	20.92	36.21	25.44	88.71	4.51
40.0	20.88	36.22	25.46	88.77	4.55
41.0	20.80	36.23	25.49	88.70	4.57
42.0	20.77	36.24	25.50	88.76	4.53
43.0	20.76	36.24	25.51	88.71	4.45
44.0	20.73	36.24	25.52	88.73	4.45
45.0	20.67	36.25	25.53	88.77	4.41
46.0	20.59	36.25	25.56	88.63	4.36
47.0	20.56	36.25	25.57	88.49	4.34
48.0	20.55	36.25	25.57	88.31	4.33
49.0	20.54	36.25	25.57	88.18	4.33
50.0	20.53	36.25	25.58	88.15	4.33
51.0	20.52	36.25	25.58	88.04	4.31
52.0	20.52	36.25	25.58	87.93	4.24
53.0	20.51	36.25	25.58	87.71	4.26
54.0	20.50	36.25	25.59	87.43	4.29
55.0	20.48	36.25	25.59	87.08	4.23
56.0	20.46	36.25	25.59	86.04	4.20
57.0	20.45	36.25	25.60	83.68	4.24
58.0	20.44	36.25	25.60	81.76	4.20
59.0	20.43	36.25	25.60	80.18	4.15
60.0	20.42	36.25	25.60	79.35	4.10
61.0	20.38	36.24	25.61	78.75	3.83
62.0	20.16	36.25	25.67	77.01	3.67
63.0	20.09	36.26	25.70	68.87	3.83

CAST 47

Position: 28 20.3 N, 92 00.2 W Time: 11:20 Z, 18 May 92 File: 9213908.cnv Depth: 63 m



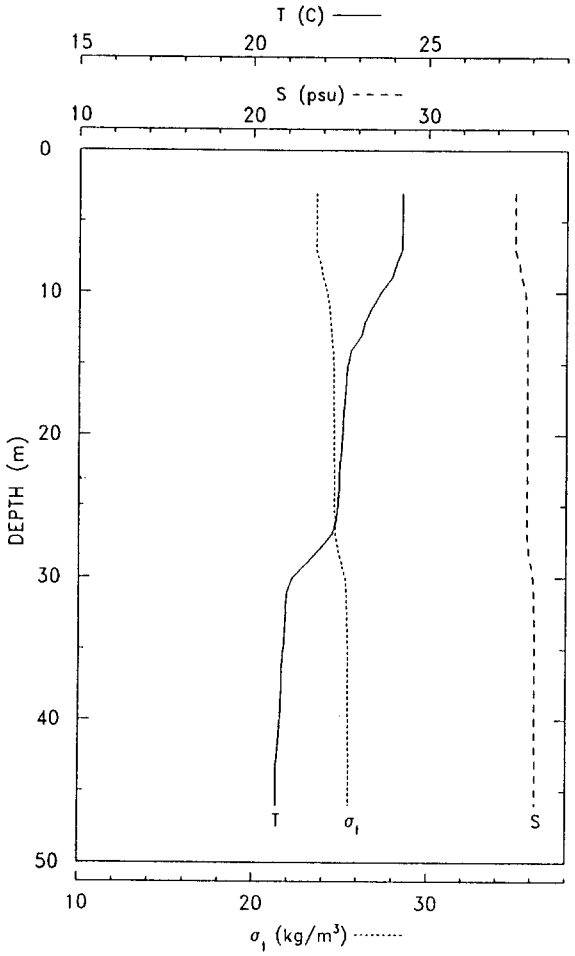


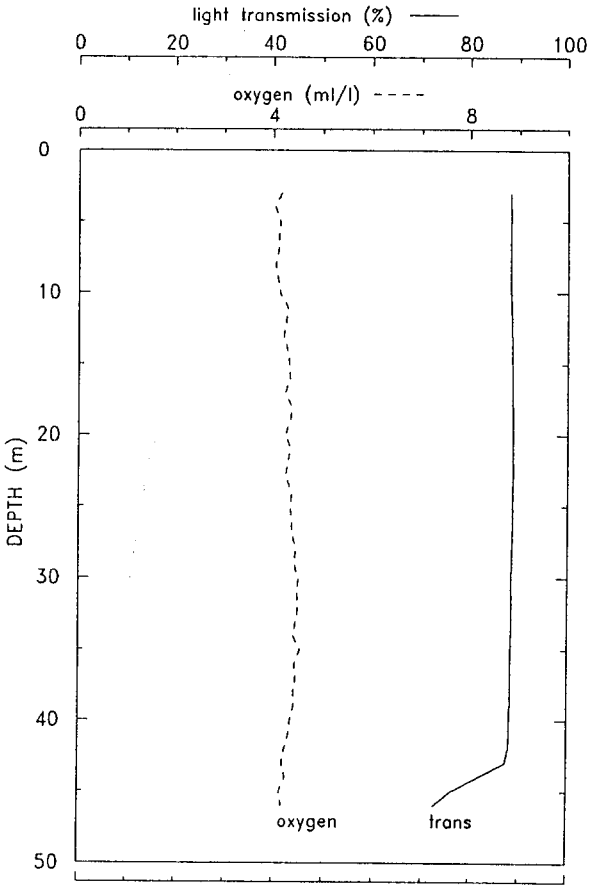
CAST 47

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.32	34.54	23.20	88.48	4.01
4.0	24.33	34.54	23.19	88.49	4.02
5.0	24.03	34.80	23.48	88.41	3.97
6.0	23.92	34.90	23.59	88.38	4.03
7.0	23.45	35.27	24.01	88.15	4.12
8.0	23.18	35.31	24.12	88.19	4.24
9.0	23.09	35.35	24.18	88.33	4.16
10.0	23.07	35.39	24.21	88.34	4.16
11.0	23.01	35.43	24.26	88.37	4.15
12.0	22.90	35.47	24.32	88.44	4.12
13.0	22.79	35.50	24.38	88.59	4.18
14.0	22.76	35.56	24.43	88.58	4.16
15.0	22.78	35.62	24.47	88.67	4.13
16.0	22.77	35.64	24.49	88.66	4.20
17.0	22.75	35.66	24.51	88.57	4.15
18.0	22.73	35.67	24.52	88.69	4.21
19.0	22.71	35.67	24.53	88.64	4.18
20.0	22.69	35.67	24.53	88.71	4.28
21.0	22.67	35.68	24.54	88.74	4.17
22.0	22.64	35.68	24.56	88.76	4.18
23.0	22.59	35.69	24.57	88.75	4.21
24.0	22.49	35.69	24.61	88.77	4.25
25.0	22.42	35.70	24.63	88.80	4.25
26.0	22.40	35.70	24.64	88.81	4.20
27.0	22.19	35.77	24.75	88.78	4.21
28.0	22.03	35.83	24.84	88.78	4.29
29.0	21.78	35.88	24.95	88.77	4.33
30.0	21.47	35.94	25.08	88.73	4.37
31.0	21.24	35.97	25.17	88.77	4.40
32.0	20.98	36.00	25.26	88.78	4.40
33.0	20.78	36.03	25.34	88.75	4.48
34.0	20.76	36.07	25.37	88.74	4.47
35.0	20.77	36.09	25.38	88.78	4.49
36.0	20.76	36.10	25.40	88.75	4.49
37.0	20.76	36.13	25.43	88.76	4.50
38.0	20.78	36.18	25.46	88.71	4.39
39.0	20.76	36.20	25.47	88.64	4.44
40.0	20.75	36.21	25.49	88.72	4.39
41.0	20.72	36.21	25.49	88.71	4.42
42.0	20.72	36.22	25.50	88.62	4.40
43.0	20.71	36.22	25.50	88.62	4.44
44.0	20.68	36.22	25.51	88.64	4.38
45.0	20.65	36.23	25.53	88.63	4.35
46.0	20.60	36.24	25.55	88.54	4.34
47.0	20.57	36.24	25.55	88.47	4.30
48.0	20.55	36.24	25.56	88.37	4.20
49.0	20.54	36.24	25.57	88.29	4.22
50.0	20.53	36.24	25.57	88.22	4.25
51.0	20.52	36.24	25.57	88.12	4.24
52.0	20.51	36.24	25.58	88.01	4.24
53.0	20.49	36.24	25.58	87.74	4.20
54.0	20.46	36.24	25.59	87.40	4.16
55.0	20.40	36.25	25.61	87.13	4.02
56.0	20.31	36.25	25.64	72.55	3.91
57.0	20.26	36.26	25.65	41.20	3.77
58.0	20.25	36.26	25.66	38.60	3.74
59.0	20.24	36.26	25.66	35.92	3.76
60.0	20.24	36.26	25.66	31.34	3.75
61.0	20.24	36.26	25.66	27.62	3.75

CAST 48

Position: 28 30.5 N, 92 00.2 W Time: 12:45 Z, 18 May 92 File: 9213910.cnv Depth: 49 m





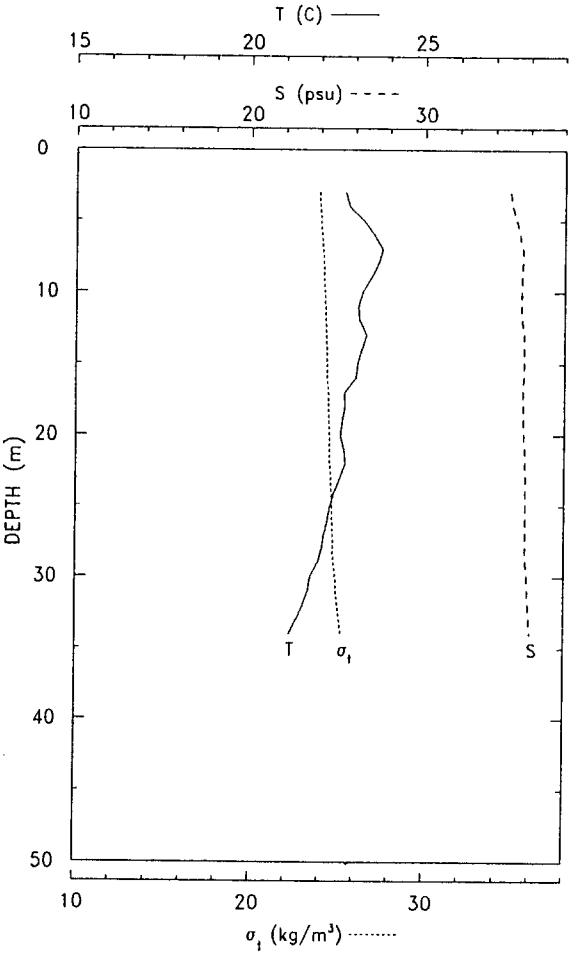
CAST 48

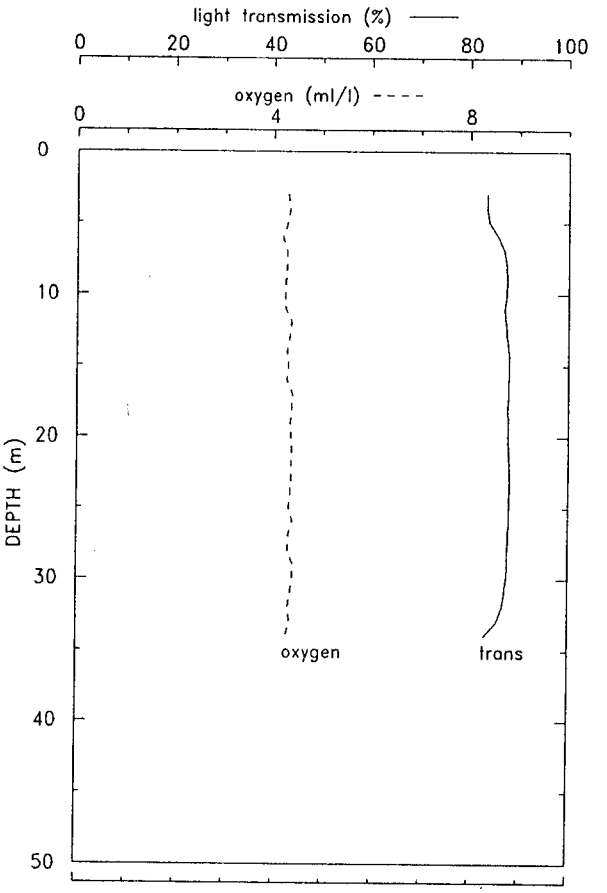
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.25	35.04	23.60	88.23	4.16
4.0	24.25	35.04	23.59	88.25	4.03
5.0	24.25	35.04	23.60	88.25	4.14
6.0	24.25	35.04	23.60	88.20	4.12
7.0	24.24	35.05	23.60	88.19	4.11
8.0	24.08	35.28	23.83	88.22	4.05
9.0	23.94	35.44	23.99	88.17	4.10
10.0	23.65	35.64	24.23	88.25	4.14
11.0	23.41	35.70	24.35	88.39	4.30
12.0	23.22	35.74	24.43	88.52	4.27
13.0	23.10	35.75	24.47	88.58	4.22
14.0	22.81	35.77	24.57	88.61	4.30
15.0	22.72	35.77	24.60	88.66	4.34
16.0	22.67	35.76	24.61	88.70	4.36
17.0	22.65	35.76	24.61	88.71	4.25
18.0	22.61	35.75	24.62	88.76	4.38
19.0	22.57	35.75	24.63	88.77	4.36
20.0	22.56	35.75	24.63	88.77	4.26
21.0	22.54	35.75	24.64	88.74	4.36
22.0	22.50	35.75	24.65	88.82	4.30
23.0	22.47	35.76	24.66	88.81	4.26
24.0	22.46	35.76	24.66	88.77	4.39

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
25.0	22.44	35.76	24.67	88.75	4.36
26.0	22.39	35.76	24.69	88.74	4.39
27.0	22.26	35.77	24.73	88.73	4.40
28.0	21.92	35.84	24.88	88.71	4.48
29.0	21.55	35.97	25.08	88.60	4.45
30.0	21.15	36.11	25.30	88.50	4.53
31.0	20.99	36.15	25.37	88.54	4.50
32.0	20.95	36.17	25.40	88.56	4.52
33.0	20.95	36.20	25.42	88.57	4.48
34.0	20.93	36.22	25.45	88.54	4.42
35.0	20.89	36.22	25.46	88.48	4.57
36.0	20.85	36.22	25.47	88.42	4.46
37.0	20.84	36.22	25.47	88.40	4.48
38.0	20.84	36.22	25.47	88.38	4.44
39.0	20.82	36.22	25.48	88.36	4.44
40.0	20.79	36.22	25.48	88.30	4.37
41.0	20.76	36.22	25.49	88.21	4.34
42.0	20.74	36.22	25.50	88.09	4.25
43.0	20.69	36.23	25.52	87.45	4.20
44.0	20.67	36.24	25.53	81.91	4.27
45.0	20.67	36.24	25.53	76.36	4.16
46.0	20.67	36.24	25.53	72.65	4.19

CAST 49

Position: 28 40.7 N, 92 00.2 W Time: 14:10 Z, 18 May 92 File: 9213912.cnv Depth: 38 m





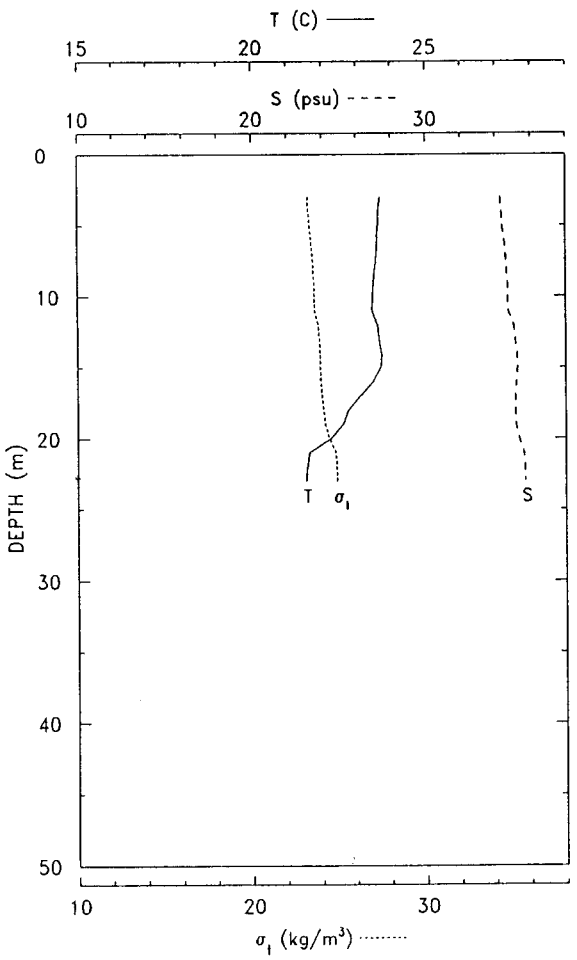
CAST 49

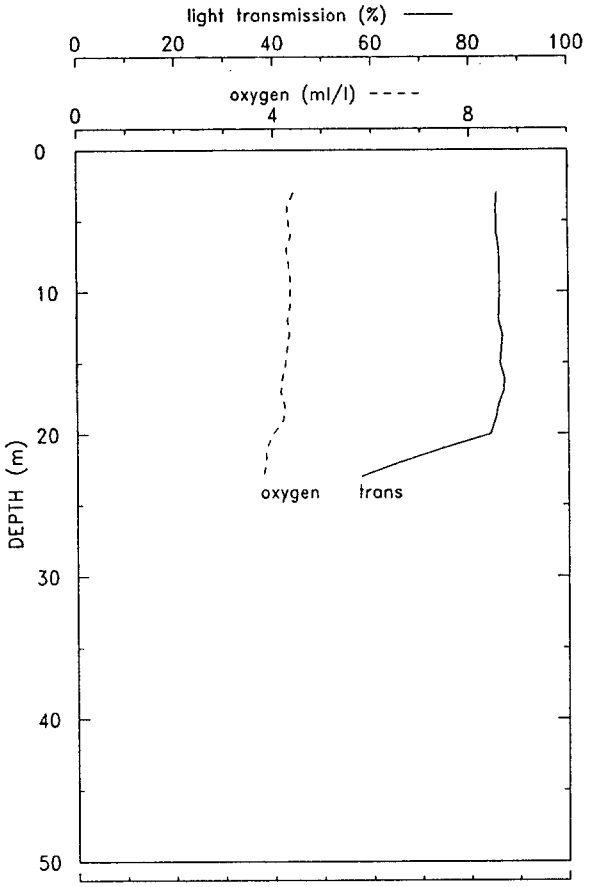
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	22.71	34.86	23.92	83.50	4.29
4.0	22.83	34.96	23.95	83.41	4.34
5.0	23.25	35.20	24.01	83.87	4.29
6.0	23.55	35.40	24.08	85.70	4.19
7.0	23.80	35.58	24.14	86.95	4.28
8.0	23.67	35.57	24.17	87.43	4.27
9.0	23.46	35.52	24.20	87.56	4.25
10.0	23.22	35.49	24.24	87.40	4.24
11.0	23.10	35.51	24.29	87.01	4.24
12.0	23.15	35.54	24.31	87.29	4.38
13.0	23.34	35.66	24.34	87.53	4.34
14.0	23.20	35.65	24.37	87.97	4.28
15.0	23.08	35.64	24.40	87.99	4.32
16.0	23.04	35.64	24.41	87.99	4.28
17.0	22.71	35.60	24.48	87.94	4.40
18.0	22.73	35.62	24.48	87.74	4.38

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
19.0	22.64	35.62	24.51	87.85	4.35
20.0	22.58	35.65	24.55	87.78	4.37
21.0	22.69	35.70	24.56	87.90	4.38
22.0	22.74	35.74	24.58	88.13	4.37
23.0	22.59	35.76	24.63	88.19	4.37
24.0	22.42	35.76	24.68	88.22	4.36
25.0	22.31	35.76	24.71	88.13	4.33
26.0	22.23	35.77	24.74	88.04	4.40
27.0	22.13	35.77	24.77	87.88	4.32
28.0	22.08	35.76	24.78	87.78	4.31
29.0	21.96	35.78	24.83	87.73	4.42
30.0	21.74	35.86	24.95	87.63	4.40
31.0	21.67	35.89	24.99	87.27	4.36
32.0	21.52	35.94	25.07	86.74	4.32
33.0	21.34	36.00	25.16	85.62	4.35
34.0	21.14	36.07	25.27	83.04	4.27

CAST 50

Position: 28 50.6 N, 92 00.6 W Time: 15:39 Z, 18 May 92 File: 9213914.cnv Depth: 27 m





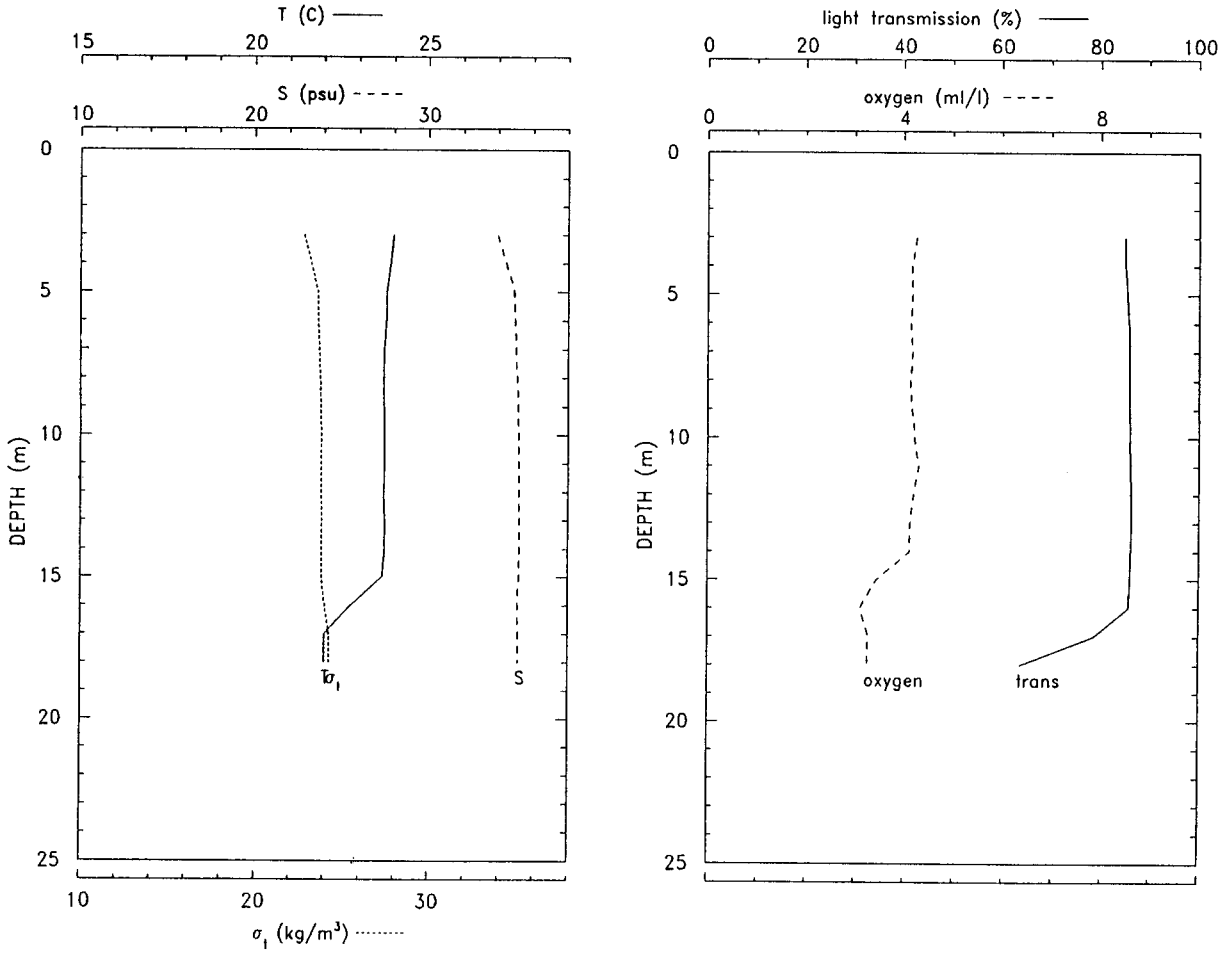
CAST 50

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.70	34.32	23.21	85.53	4.41
4.0	23.64	34.36	23.27	85.31	4.28
5.0	23.63	34.43	23.32	85.41	4.31
6.0	23.61	34.54	23.41	85.50	4.36
7.0	23.60	34.62	23.47	85.92	4.27
8.0	23.56	34.66	23.52	86.06	4.32
9.0	23.51	34.71	23.57	86.04	4.34
10.0	23.48	34.71	23.58	86.05	4.34
11.0	23.46	34.75	23.61	85.90	4.34
12.0	23.62	35.06	23.80	85.79	4.29
13.0	23.67	35.16	23.86	86.59	4.32

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
14.0	23.75	35.27	23.92	86.35	4.27
15.0	23.71	35.27	23.93	86.06	4.25
16.0	23.49	35.23	23.97	86.95	4.18
17.0	23.13	35.16	24.02	86.85	4.14
18.0	22.77	35.15	24.12	85.74	4.22
19.0	22.62	35.18	24.18	85.15	4.19
20.0	22.26	35.36	24.42	84.13	3.97
21.0	21.64	35.61	24.79	74.55	3.84
22.0	21.59	35.66	24.83	65.80	3.84
23.0	21.56	35.68	24.86	57.81	3.78

CAST 51

Position: 29 00.4 N, 92 00.1 W Time: 16:53 Z, 18 May 92 File: 9213916.cnv Depth: 20 m

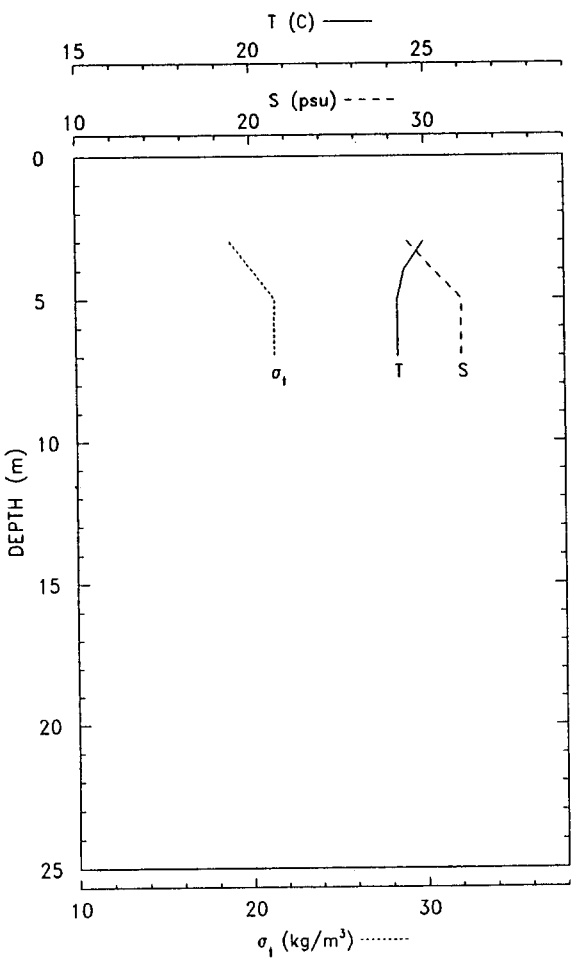


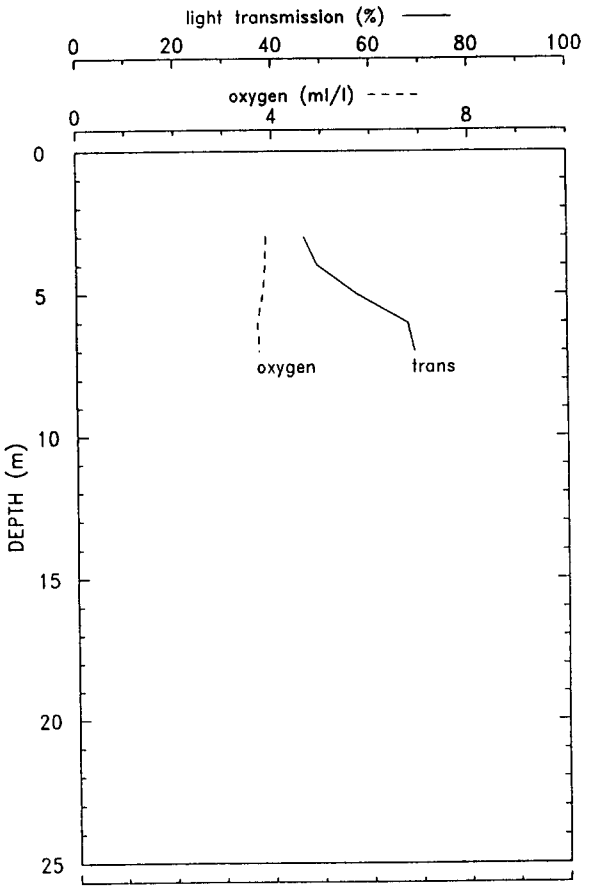
CAST 51

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	23.99	33.95	22.85	84.94	4.27
4.0	23.90	34.46	23.27	85.01	4.16
5.0	23.79	34.92	23.65	85.44	4.18
6.0	23.78	34.96	23.67	85.78	4.14
7.0	23.72	35.02	23.74	85.97	4.18
8.0	23.71	35.09	23.80	85.93	4.14
9.0	23.71	35.15	23.84	85.99	4.17
10.0	23.72	35.17	23.86	86.03	4.22
11.0	23.74	35.20	23.87	86.13	4.31
12.0	23.71	35.20	23.88	86.24	4.20
13.0	23.74	35.22	23.89	86.33	4.13
14.0	23.73	35.22	23.89	86.26	4.12
15.0	23.66	35.20	23.89	86.13	3.46
16.0	22.79	35.11	24.08	85.82	3.12
17.0	22.03	35.15	24.33	78.60	3.29
18.0	22.03	35.15	24.33	63.66	3.27

CAST 52

Position: 29 10.5 N, 92 00.3 W Time: 18:16 Z, 18 May 92 File: 9213918.cnv Depth: 8 m



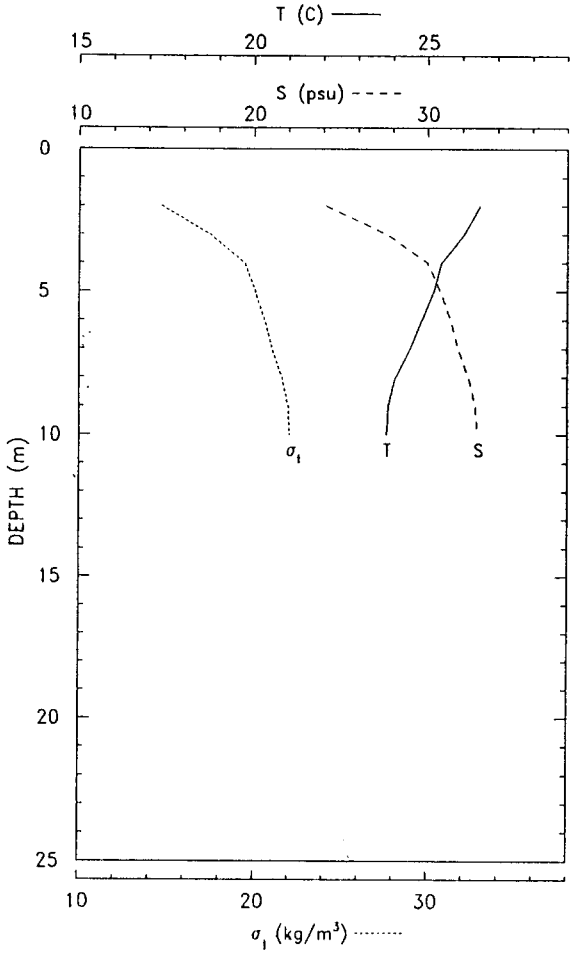


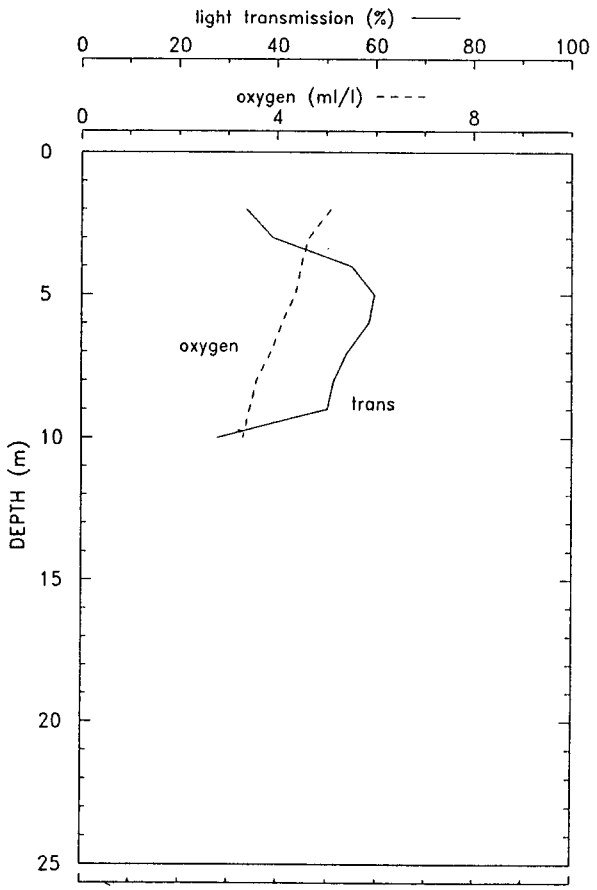
CAST 52

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.97	29.01	18.84	46.51	3.87
4.0	24.41	30.53	20.15	49.22	3.85
5.0	24.22	32.16	21.43	57.28	3.80
6.0	24.23	32.10	21.38	67.53	3.69
7.0	24.23	32.10	21.38	68.97	3.73

CAST 53

Position: 29 21.2 N, 92 30.8 W Time: 21:36 Z, 18 May 92 File: 9213920.cnv Depth: 12 m



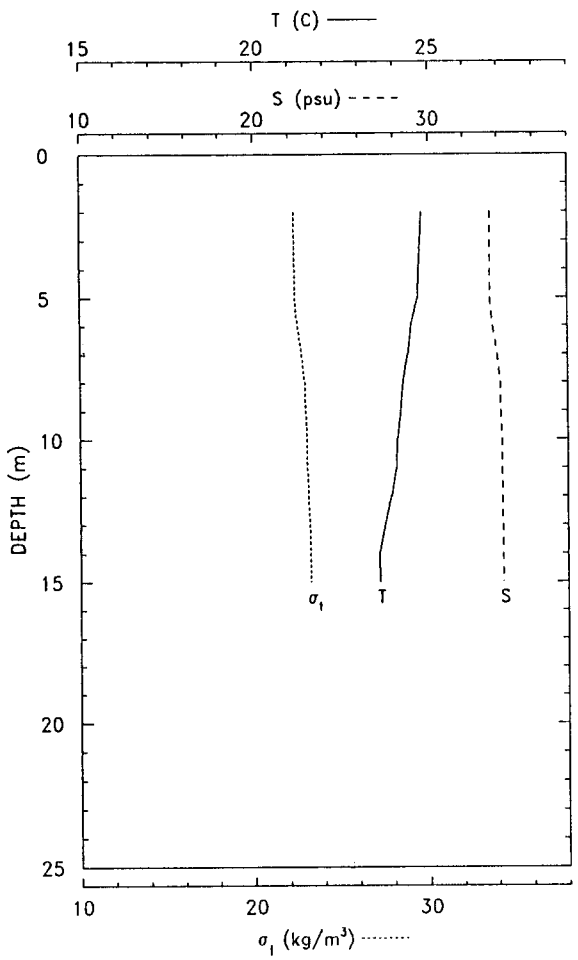


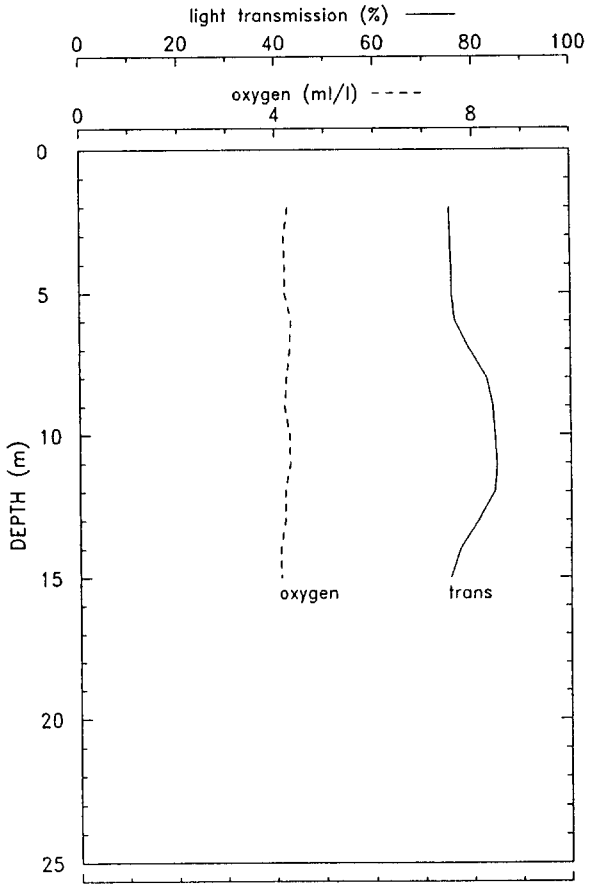
CAST 53

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	26.51	24.14	14.72	33.67	5.08
3.0	26.05	27.69	17.52	39.14	4.65
4.0	25.40	30.00	19.45	55.00	4.49
5.0	25.18	30.74	20.07	59.69	4.37
6.0	24.83	31.33	20.62	58.53	4.10
7.0	24.49	31.75	21.04	54.25	3.88
8.0	24.07	32.35	21.61	51.51	3.59
9.0	23.87	32.76	21.99	50.19	3.45
10.0	23.81	32.81	22.05	27.83	3.31

CAST 54

Position: 29 10.7 N, 92 30.5 W Time: 23:10 Z, 18 May 92 File: 9213922.cnv Depth: 18 m



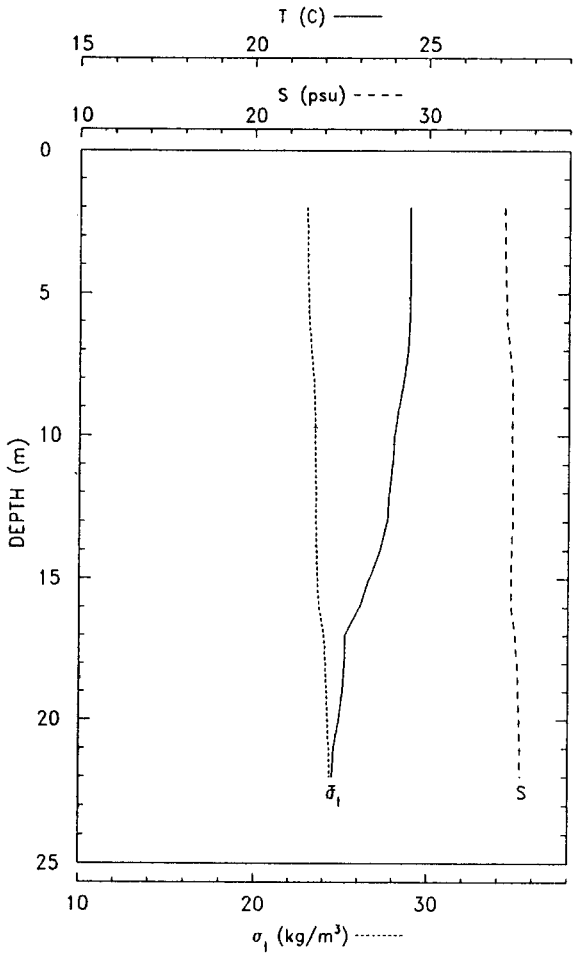


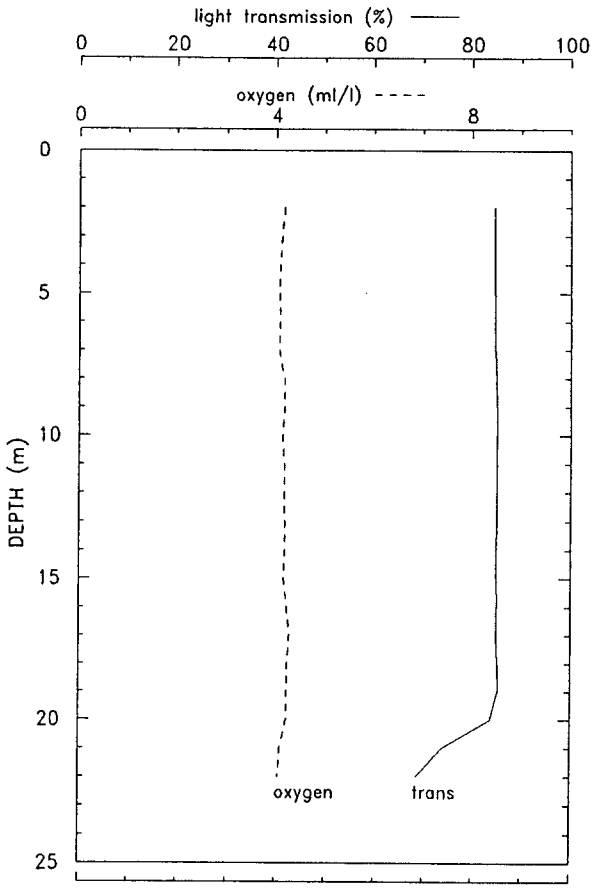
CAST 54

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.80	33.56	22.32	75.34	4.26
3.0	24.76	33.57	22.34	75.48	4.17
4.0	24.71	33.59	22.36	75.67	4.19
5.0	24.69	33.59	22.37	75.74	4.19
6.0	24.50	33.73	22.53	76.48	4.32
7.0	24.41	33.99	22.76	79.43	4.29
8.0	24.27	34.16	22.92	82.87	4.23
9.0	24.20	34.18	22.96	84.14	4.19
10.0	24.10	34.23	23.03	84.48	4.29
11.0	24.08	34.25	23.05	84.83	4.29
12.0	23.94	34.27	23.11	84.35	4.19
13.0	23.75	34.29	23.18	81.09	4.19
14.0	23.59	34.29	23.23	77.35	4.09
15.0	23.61	34.28	23.22	75.42	4.11

CAST 55

Position: 29 00.7 N, 92 30.5 W Time: 00:31 Z, 19 May 92 File: 9214002.cnv Depth: 24 m



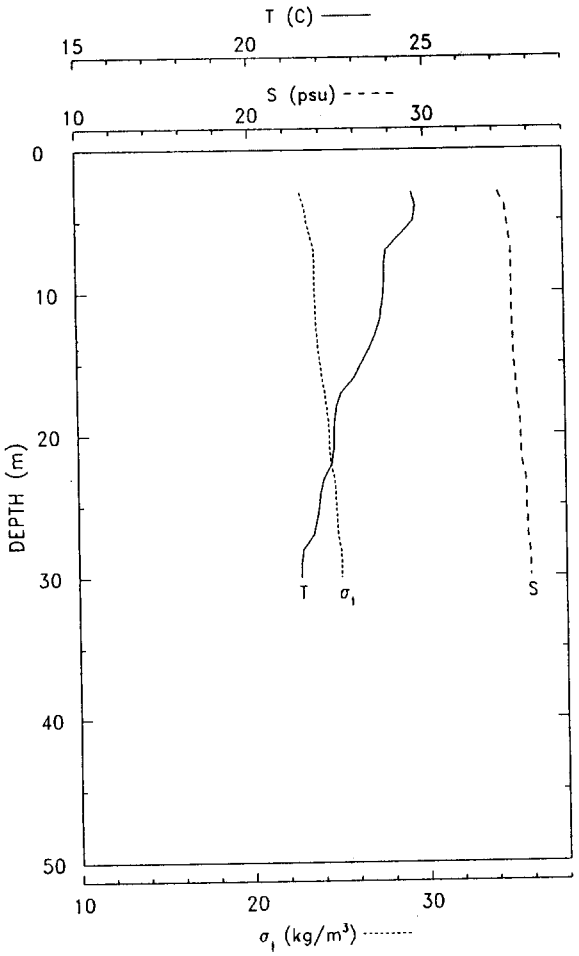


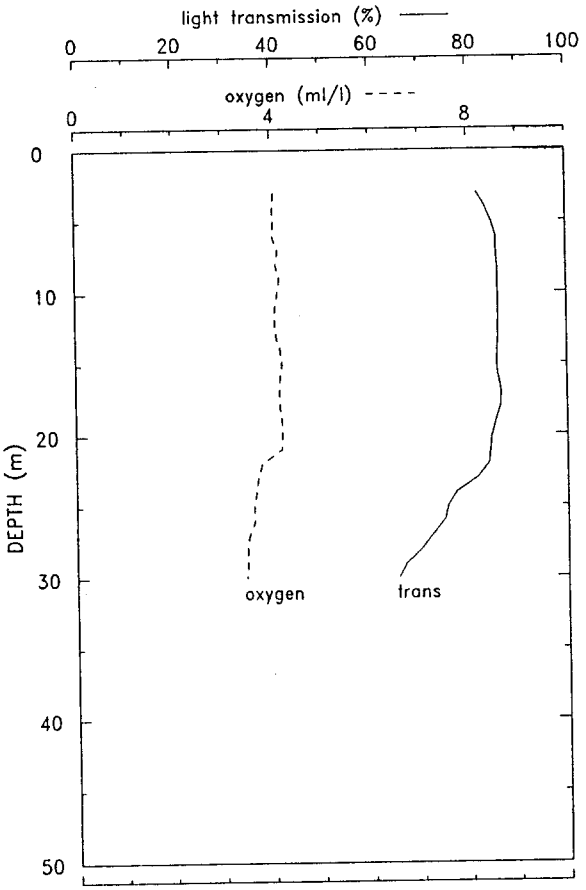
CAST 55

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.48	34.32	22.98	84.53	4.17
3.0	24.47	34.36	23.02	84.57	4.12
4.0	24.48	34.36	23.02	84.58	4.08
5.0	24.47	34.44	23.08	84.67	4.07
6.0	24.46	34.49	23.12	84.68	4.09
7.0	24.42	34.63	23.24	84.75	4.07
8.0	24.31	34.81	23.40	84.97	4.19
9.0	24.15	34.81	23.45	85.16	4.19
10.0	24.02	34.78	23.47	85.13	4.15
11.0	23.98	34.81	23.51	85.05	4.18
12.0	23.89	34.83	23.54	85.01	4.18
13.0	23.84	34.82	23.56	85.07	4.19
14.0	23.63	34.79	23.59	84.92	4.19
15.0	23.32	34.73	23.64	85.00	4.17
16.0	23.04	34.77	23.75	85.10	4.23
17.0	22.62	34.99	24.04	85.05	4.29
18.0	22.61	35.11	24.13	85.29	4.24
19.0	22.56	35.18	24.20	85.42	4.23
20.0	22.46	35.22	24.25	83.94	4.23
21.0	22.31	35.27	24.34	74.09	4.11
22.0	22.26	35.31	24.38	68.73	4.06

CAST 56

Position: 28 50.6 N, 92 30.6 W Time: 02:08 Z, 19 May 92 File: 9214004.cnv Depth: 31 m





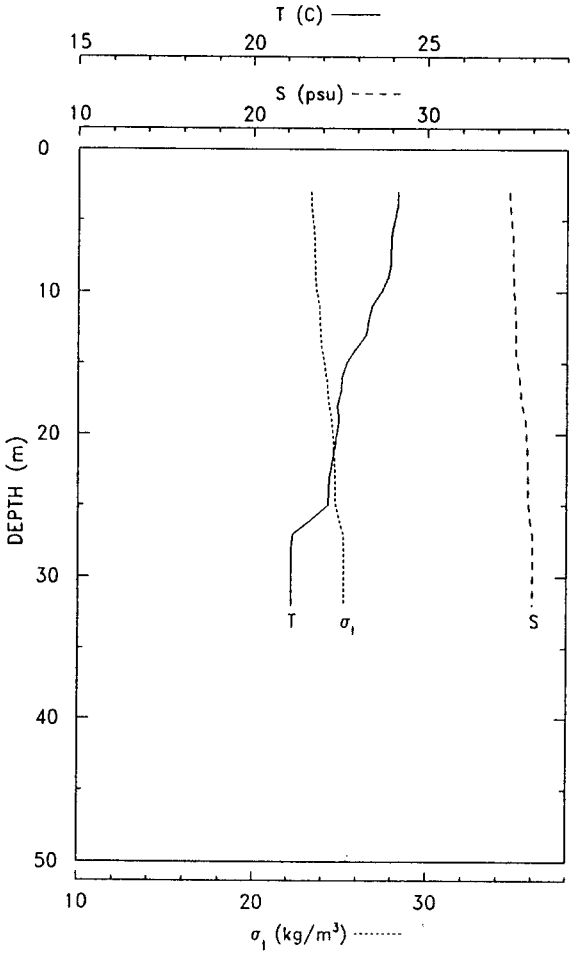
CAST 56

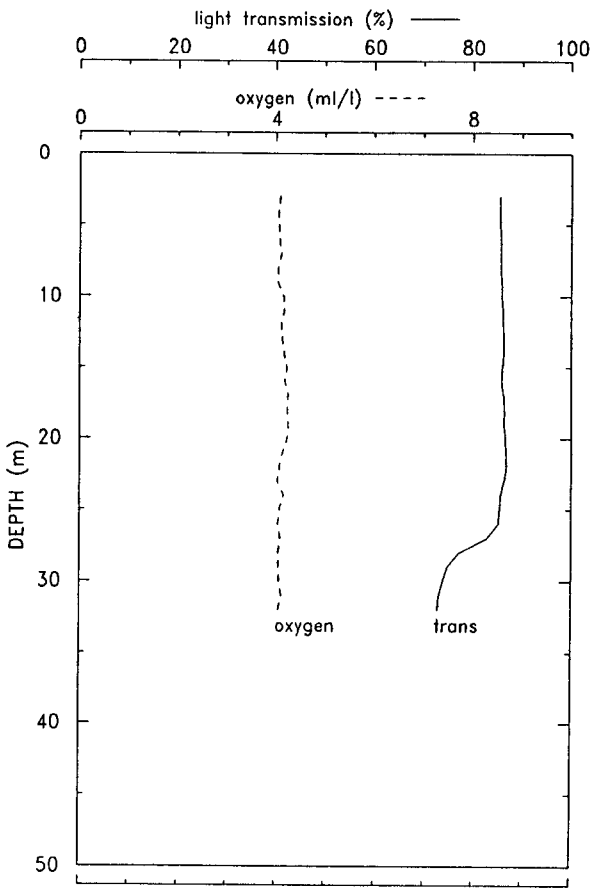
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.64	34.30	22.93	81.98	4.07
4.0	24.76	34.70	23.19	83.70	4.05
5.0	24.68	34.80	23.29	84.91	4.06
6.0	24.30	34.92	23.49	85.79	4.04
7.0	23.91	35.02	23.69	85.88	4.15
8.0	23.84	35.01	23.70	86.06	4.11
9.0	23.85	35.02	23.70	86.10	4.18
10.0	23.82	35.02	23.71	86.17	4.14
11.0	23.76	35.02	23.73	86.20	4.07
12.0	23.71	35.05	23.77	86.17	4.08
13.0	23.56	35.07	23.82	86.14	4.10
14.0	23.39	35.09	23.89	85.93	4.19
15.0	23.17	35.14	23.99	85.81	4.22
16.0	22.96	35.21	24.10	86.19	4.18

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
17.0	22.60	35.25	24.24	86.70	4.16
18.0	22.44	35.32	24.34	86.49	4.17
19.0	22.39	35.42	24.43	85.51	4.21
20.0	22.36	35.45	24.46	84.74	4.21
21.0	22.36	35.46	24.47	84.41	4.20
22.0	22.30	35.51	24.52	84.14	3.79
23.0	22.08	35.71	24.74	81.85	3.71
24.0	21.98	35.76	24.80	77.49	3.67
25.0	21.92	35.76	24.82	75.55	3.62
26.0	21.85	35.79	24.86	74.82	3.63
27.0	21.76	35.82	24.91	72.45	3.52
28.0	21.46	35.92	25.07	70.11	3.48
29.0	21.41	35.94	25.10	67.05	3.48
30.0	21.40	35.94	25.10	65.45	3.46

CAST 57

Position: 28 39.8 N, 92 30.2 W Time: 03:35 Z, 19 May 92 File: 9214006.cnv Depth: 34 m





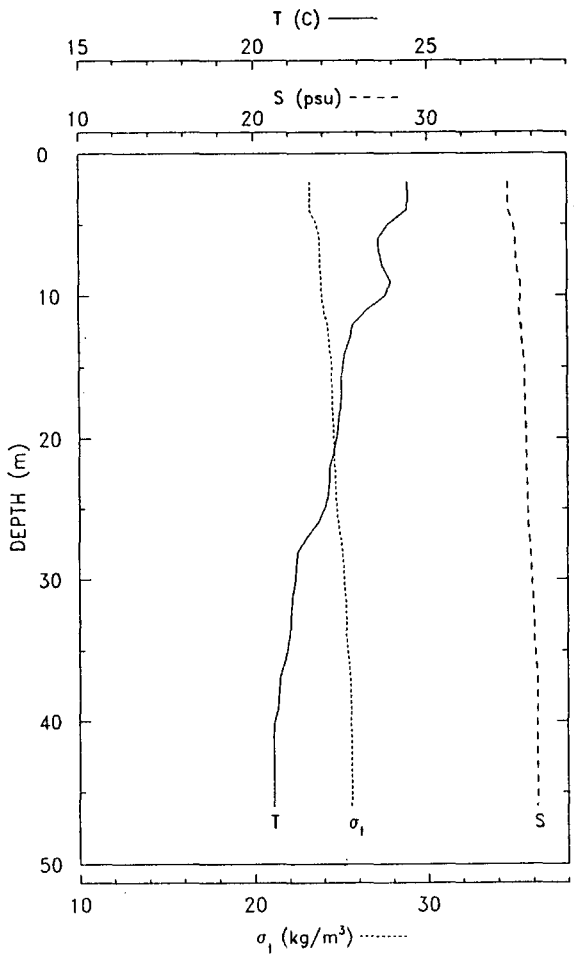
CAST 57

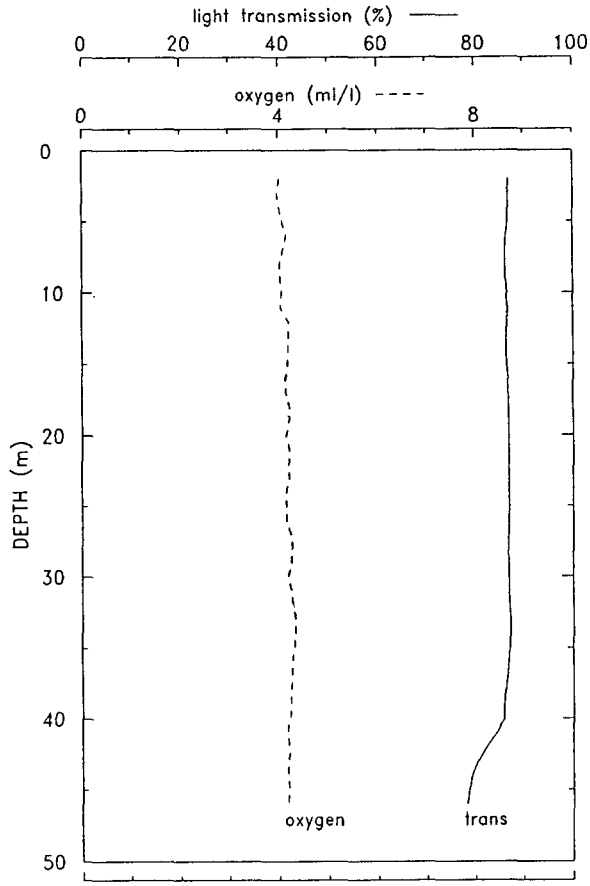
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.17	34.67	23.34	85.50	4.08
4.0	24.16	34.68	23.36	85.53	4.06
5.0	24.07	34.77	23.45	85.49	4.07
6.0	23.97	34.86	23.54	85.74	4.08
7.0	23.97	34.87	23.55	85.78	4.11
8.0	23.96	34.88	23.56	85.72	4.05
9.0	23.88	34.89	23.60	85.86	4.04
10.0	23.69	34.93	23.68	85.86	4.16
11.0	23.42	35.02	23.83	86.09	4.17
12.0	23.32	35.04	23.87	86.17	4.12
13.0	23.25	35.04	23.89	86.31	4.14
14.0	22.96	35.03	23.97	86.33	4.17
15.0	22.69	35.14	24.13	86.10	4.23
16.0	22.56	35.26	24.26	85.93	4.19
17.0	22.54	35.35	24.33	86.40	4.26

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
18.0	22.43	35.40	24.41	86.54	4.24
19.0	22.47	35.59	24.54	86.36	4.26
20.0	22.41	35.66	24.61	86.67	4.23
21.0	22.36	35.71	24.66	86.86	4.14
22.0	22.29	35.74	24.70	86.87	4.08
23.0	22.21	35.75	24.73	86.44	4.04
24.0	22.19	35.76	24.75	85.70	4.16
25.0	22.17	35.78	24.76	85.48	4.08
26.0	21.71	35.88	24.97	85.34	4.05
27.0	21.18	36.01	25.22	82.99	4.10
28.0	21.12	36.03	25.25	77.44	4.06
29.0	21.12	36.03	25.25	74.97	4.05
30.0	21.12	36.03	25.25	74.01	4.07
31.0	21.12	36.03	25.25	73.24	4.11
32.0	21.12	36.03	25.25	72.98	4.06

CAST 58

Position: 28 30.4 N, 92 30.3 W Time: 05:06 Z, 19 May 92 File: 9214008.cnv Depth: 49 m





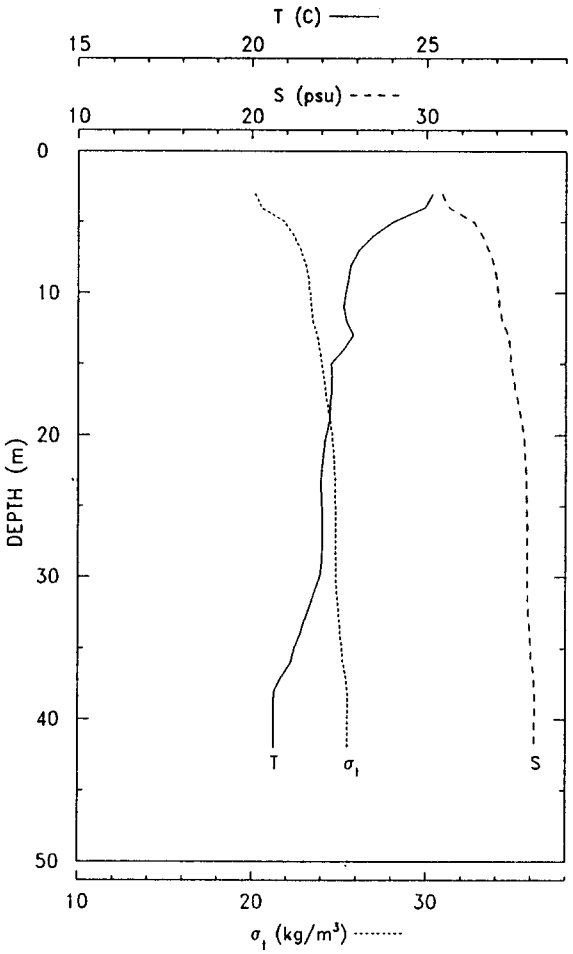
CAST 58

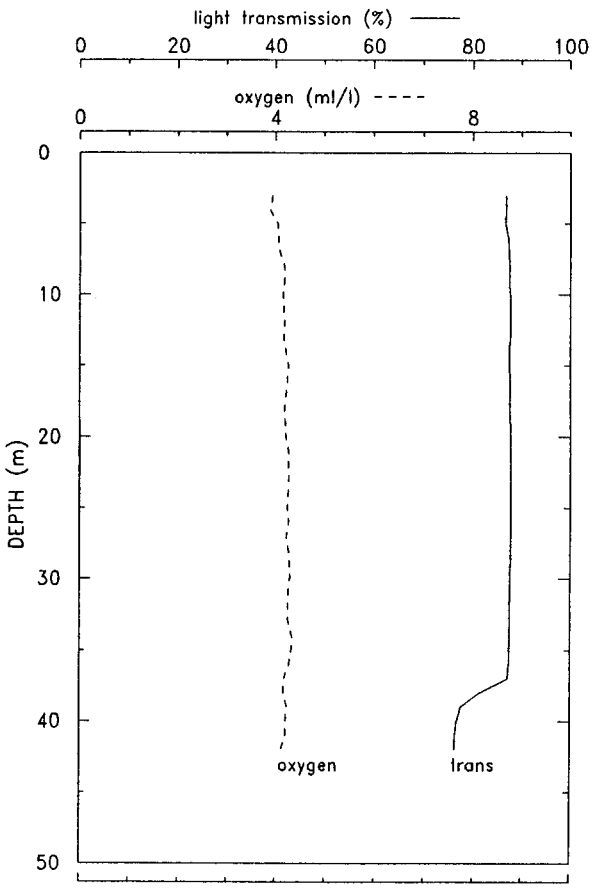
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.43	34.63	23.23	87.05	4.03
3.0	24.45	34.61	23.22	86.89	3.97
4.0	24.43	34.67	23.26	86.97	4.03
5.0	23.89	34.96	23.65	86.90	4.09
6.0	23.59	35.05	23.80	86.48	4.17
7.0	23.63	35.07	23.81	86.24	4.10
8.0	23.72	35.12	23.81	86.29	4.03
9.0	23.94	35.30	23.88	86.38	4.03
10.0	23.79	35.34	23.96	86.69	4.08
11.0	23.26	35.25	24.05	86.86	4.05
12.0	22.85	35.35	24.24	86.65	4.21
13.0	22.76	35.40	24.31	86.55	4.20
14.0	22.61	35.47	24.40	86.48	4.19
15.0	22.54	35.55	24.48	86.58	4.18
16.0	22.53	35.56	24.49	86.89	4.14
17.0	22.52	35.56	24.50	86.94	4.16
18.0	22.48	35.57	24.52	86.99	4.22
19.0	22.42	35.59	24.55	86.96	4.21
20.0	22.37	35.60	24.57	87.02	4.15
21.0	22.28	35.61	24.61	86.99	4.21
22.0	22.18	35.64	24.66	87.06	4.20
23.0	22.18	35.69	24.69	87.05	4.22
24.0	22.14	35.70	24.71	87.07	4.15

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
25.0	22.03	35.71	24.75	87.05	4.15
26.0	21.84	35.75	24.83	86.95	4.15
27.0	21.51	35.79	24.96	86.92	4.24
28.0	21.26	35.89	25.10	86.86	4.26
29.0	21.21	35.93	25.14	86.97	4.26
30.0	21.19	35.95	25.17	87.00	4.19
31.0	21.10	36.01	25.23	87.00	4.26
32.0	21.07	36.03	25.26	87.10	4.28
33.0	21.05	36.05	25.28	87.20	4.33
34.0	21.02	36.08	25.31	87.24	4.33
35.0	20.95	36.14	25.38	87.24	4.31
36.0	20.85	36.21	25.46	86.97	4.26
37.0	20.73	36.24	25.52	86.63	4.26
38.0	20.71	36.25	25.52	86.24	4.24
39.0	20.67	36.25	25.54	85.96	4.23
40.0	20.59	36.24	25.56	85.91	4.20
41.0	20.55	36.24	25.57	84.56	4.17
42.0	20.54	36.24	25.57	82.41	4.20
43.0	20.54	36.24	25.57	80.58	4.18
44.0	20.54	36.24	25.57	79.37	4.17
45.0	20.54	36.24	25.57	78.76	4.19
46.0	20.54	36.24	25.56	78.32	4.16

CAST 59

Position: 28 30.1 N, 93 00.0 W Time: 11:13 Z, 19 May 92 File: 9214010.cnv Depth: 46 m





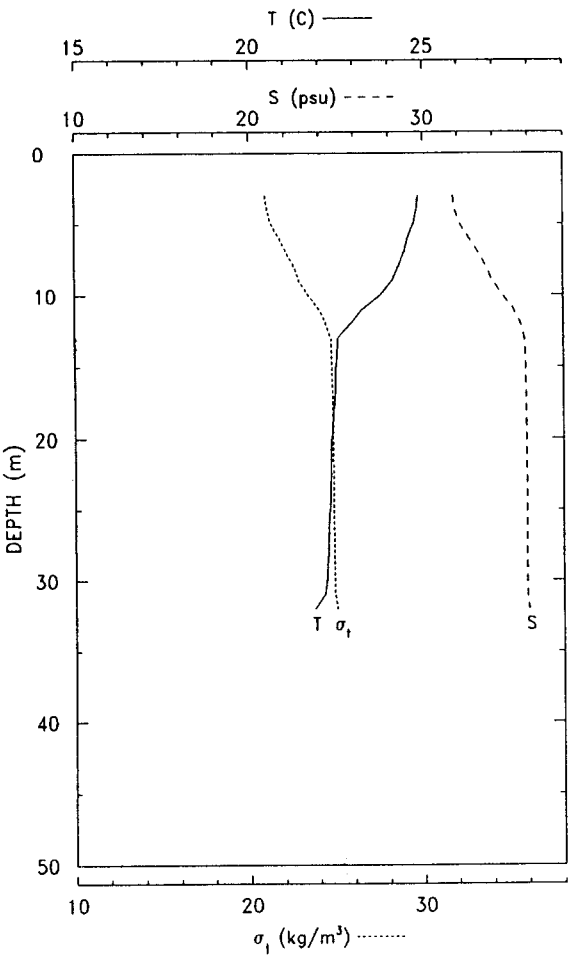
CAST 59

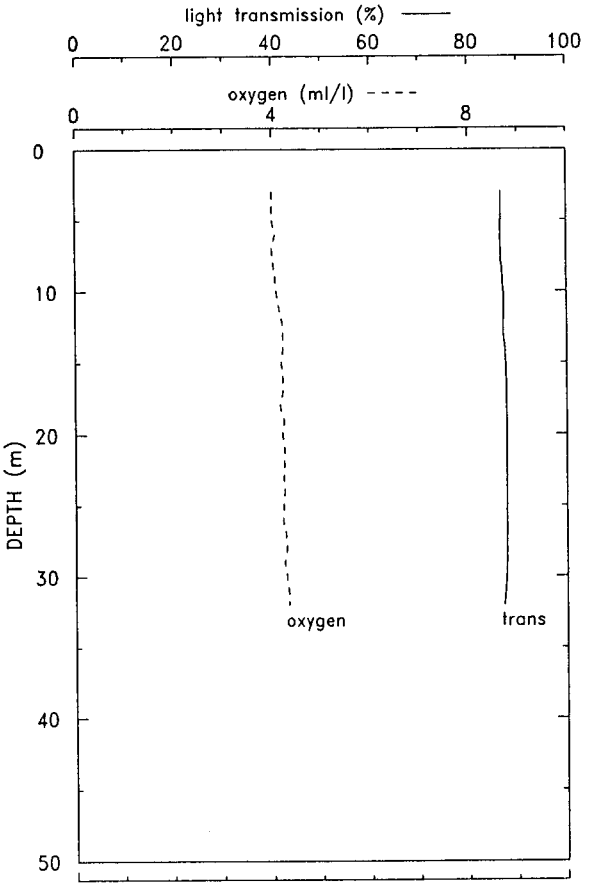
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.17	30.88	20.18	86.85	3.95
4.0	24.94	31.29	20.56	86.80	3.90
5.0	24.05	32.70	21.89	86.63	4.05
6.0	23.47	33.19	22.43	87.22	4.07
7.0	23.07	33.57	22.83	87.42	4.09
8.0	22.85	33.85	23.11	87.59	4.19
9.0	22.78	34.03	23.26	87.57	4.19
10.0	22.69	34.13	23.36	87.68	4.16
11.0	22.64	34.18	23.42	87.76	4.17
12.0	22.72	34.35	23.52	87.72	4.20
13.0	22.92	34.76	23.77	87.70	4.17
14.0	22.64	34.84	23.92	87.57	4.22
15.0	22.27	34.89	24.06	87.53	4.27
16.0	22.31	35.03	24.16	87.68	4.25
17.0	22.30	35.18	24.28	87.59	4.23
18.0	22.25	35.31	24.38	87.64	4.19
19.0	22.24	35.49	24.52	87.68	4.21
20.0	22.14	35.60	24.63	87.70	4.22
21.0	22.09	35.67	24.70	87.77	4.28
22.0	22.04	35.71	24.75	87.81	4.27

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
23.0	22.00	35.75	24.79	87.80	4.28
24.0	22.01	35.77	24.80	87.80	4.27
25.0	22.02	35.79	24.81	87.83	4.25
26.0	22.03	35.80	24.82	87.83	4.27
27.0	22.05	35.82	24.83	87.81	4.22
28.0	22.04	35.83	24.84	87.81	4.27
29.0	22.02	35.83	24.84	87.77	4.29
30.0	21.96	35.82	24.86	87.76	4.29
31.0	21.81	35.82	24.90	87.76	4.27
32.0	21.68	35.87	24.97	87.65	4.26
33.0	21.53	35.90	25.04	87.58	4.26
34.0	21.41	35.96	25.12	87.59	4.34
35.0	21.23	36.03	25.21	87.48	4.33
36.0	21.14	36.07	25.27	87.49	4.28
37.0	20.87	36.18	25.43	87.26	4.18
38.0	20.66	36.23	25.52	81.50	4.17
39.0	20.64	36.23	25.53	77.63	4.24
40.0	20.64	36.23	25.53	76.84	4.22
41.0	20.64	36.23	25.53	76.47	4.21
42.0	20.64	36.22	25.53	76.34	4.13

CAST 60

Position: 28 40.2 N, 93 00.0 W Time: 12:31 Z, 19 May 92 File: 9214012.cnv Depth: 34 m





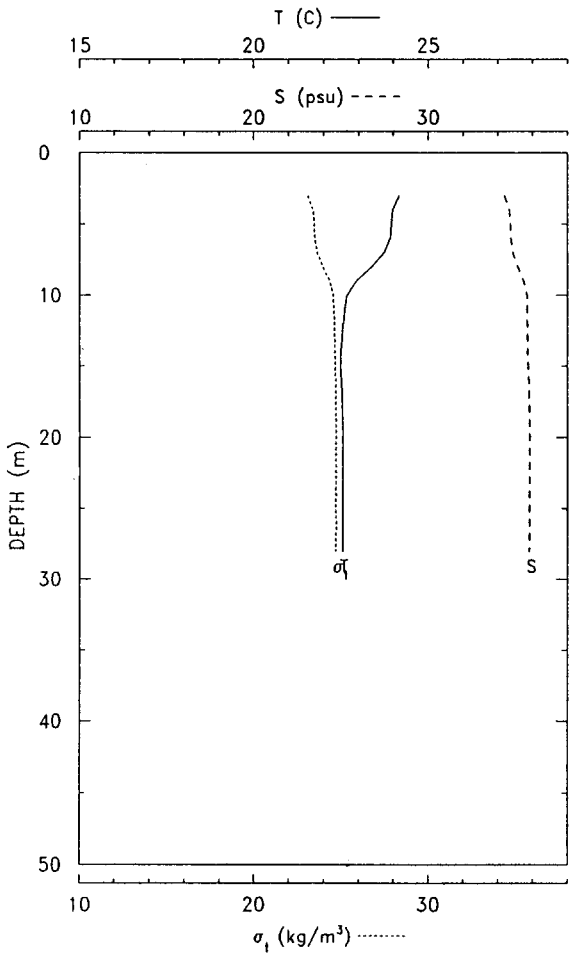
CAST 60

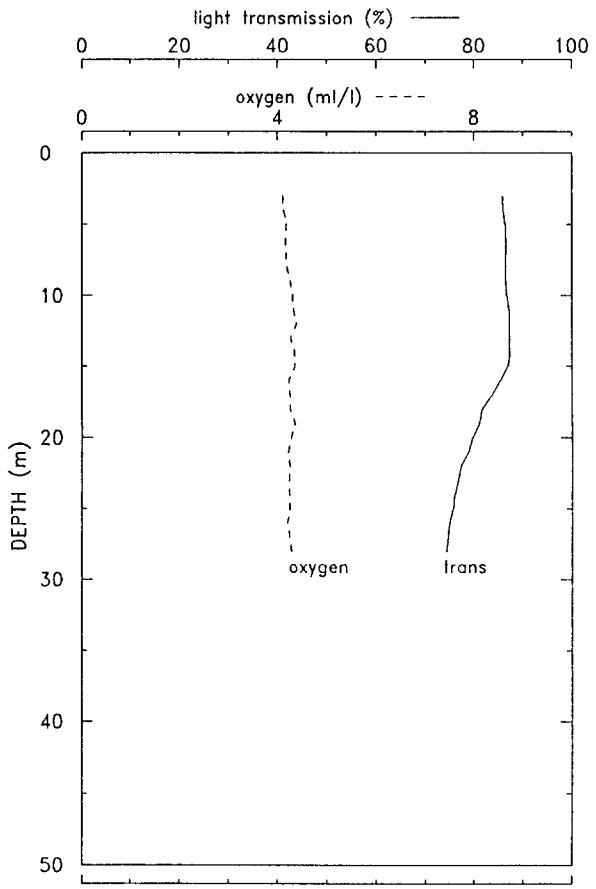
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.86	31.75	20.93	86.69	4.00
4.0	24.82	31.90	21.06	86.68	4.00
5.0	24.73	32.17	21.28	86.69	4.01
6.0	24.56	32.69	21.73	86.61	4.07
7.0	24.45	33.19	22.14	86.67	4.00
8.0	24.29	33.68	22.56	86.73	4.03
9.0	24.11	34.01	22.86	86.97	4.06
10.0	23.77	34.59	23.40	87.15	4.08
11.0	23.25	35.21	24.02	87.11	4.13
12.0	22.92	35.60	24.41	87.10	4.20
13.0	22.55	35.82	24.68	87.04	4.22
14.0	22.52	35.85	24.72	87.45	4.22
15.0	22.49	35.87	24.74	87.59	4.19
16.0	22.48	35.88	24.75	87.68	4.22
17.0	22.47	35.89	24.77	87.74	4.22

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
18.0	22.43	35.90	24.78	87.74	4.17
19.0	22.39	35.90	24.79	87.74	4.24
20.0	22.36	35.90	24.80	87.72	4.21
21.0	22.33	35.90	24.81	87.73	4.26
22.0	22.34	35.91	24.81	87.72	4.24
23.0	22.33	35.91	24.82	87.75	4.22
24.0	22.32	35.91	24.82	87.75	4.25
25.0	22.30	35.91	24.83	87.77	4.22
26.0	22.27	35.91	24.83	87.76	4.21
27.0	22.27	35.92	24.84	87.76	4.27
28.0	22.26	35.93	24.85	87.67	4.29
29.0	22.23	35.93	24.86	87.70	4.24
30.0	22.21	35.93	24.87	87.62	4.29
31.0	22.16	35.95	24.89	87.43	4.32
32.0	21.87	36.03	25.04	87.14	4.32

CAST 61

Position: 28 50.1 N, 93 00.0 W Time: 13:48 Z, 19 May 92 File: 9214014.cnv Depth: 27 m





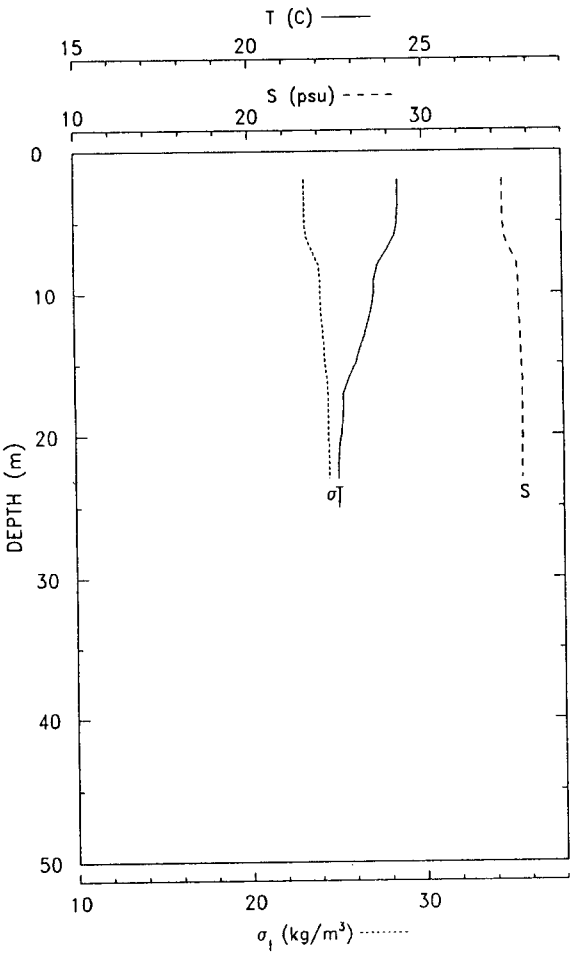
CAST 61

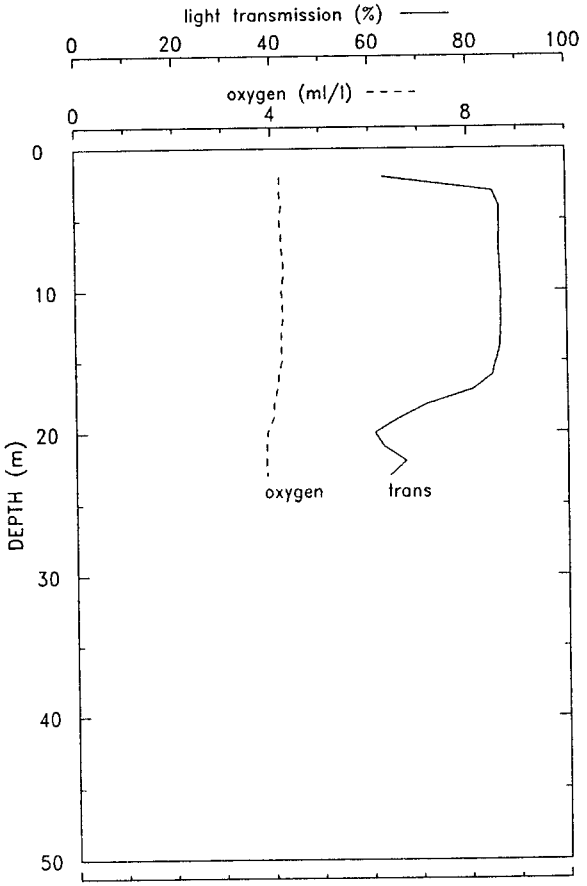
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.18	34.39	23.13	85.92	4.11
4.0	23.99	34.69	23.41	86.04	4.13
5.0	23.95	34.75	23.47	86.50	4.19
6.0	23.91	34.76	23.49	86.55	4.18
7.0	23.75	34.89	23.63	86.57	4.18
8.0	23.39	35.18	23.96	86.52	4.20
9.0	22.94	35.52	24.35	86.61	4.27
10.0	22.66	35.70	24.56	86.77	4.32
11.0	22.60	35.71	24.59	87.23	4.34
12.0	22.55	35.72	24.61	87.23	4.39
13.0	22.52	35.73	24.63	87.27	4.28
14.0	22.49	35.75	24.65	87.34	4.36
15.0	22.48	35.77	24.67	87.00	4.37

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
16.0	22.51	35.81	24.69	85.54	4.24
17.0	22.52	35.82	24.69	83.85	4.27
18.0	22.54	35.83	24.70	81.78	4.27
19.0	22.55	35.84	24.70	81.17	4.37
20.0	22.55	35.84	24.70	79.83	4.29
21.0	22.55	35.84	24.71	78.99	4.23
22.0	22.55	35.85	24.71	77.35	4.26
23.0	22.55	35.85	24.71	76.74	4.25
24.0	22.55	35.85	24.71	76.06	4.26
25.0	22.55	35.85	24.71	75.83	4.26
26.0	22.55	35.85	24.71	75.00	4.21
28.0	22.55	35.85	24.71	74.38	4.29

CAST 62

Position: 29 00.1 N, 93 00.2 W Time: 15:02 Z, 19 May 92 File: 9214016.cnv Depth: 25 m





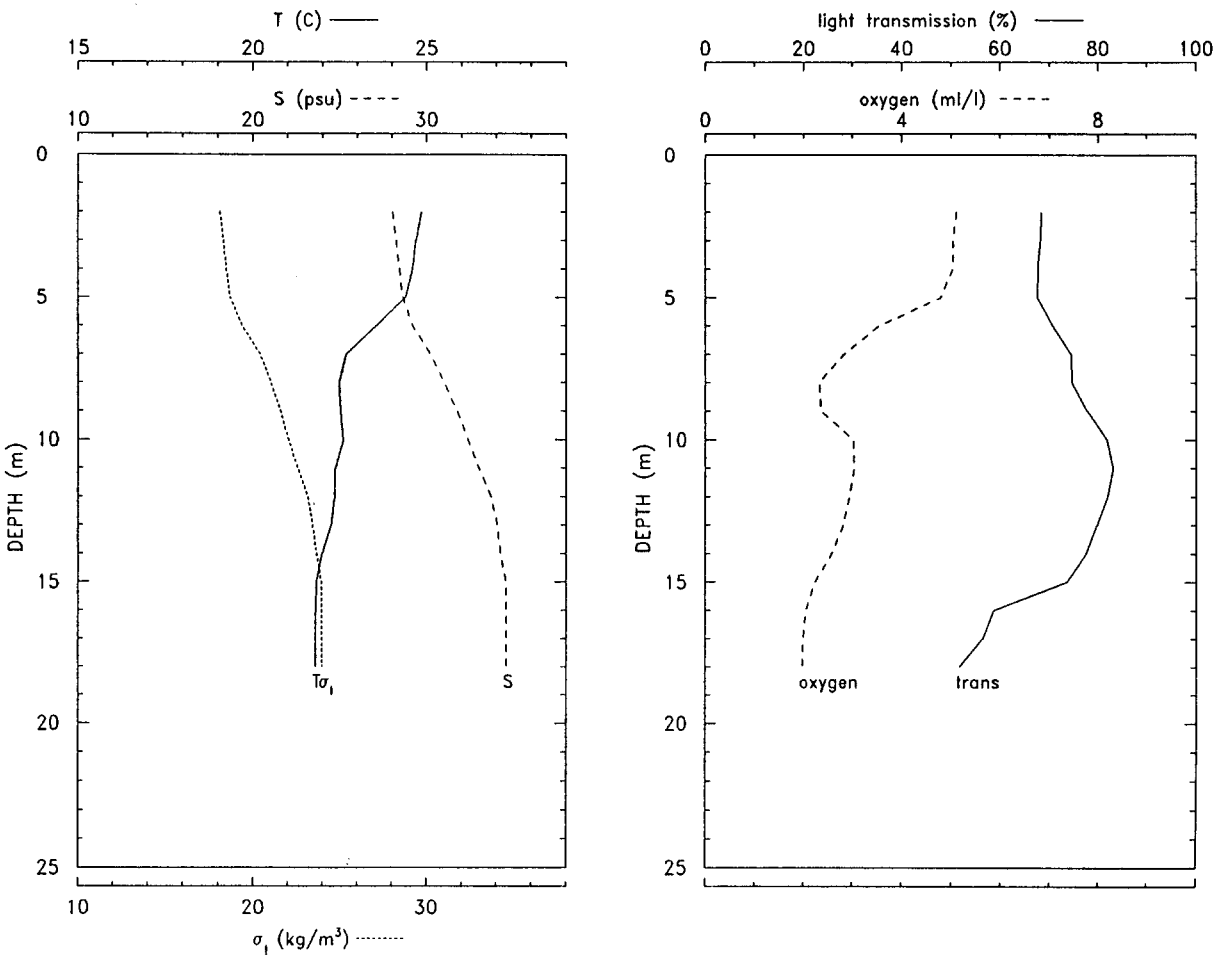
CAST 62

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.29	34.57	23.23	62.72	4.19
3.0	24.29	34.57	23.23	85.06	4.17
4.0	24.29	34.57	23.23	86.39	4.21
5.0	24.26	34.58	23.25	86.42	4.17
6.0	24.18	34.66	23.33	86.39	4.20
7.0	23.96	35.01	23.66	86.32	4.21
8.0	23.70	35.40	24.03	86.42	4.24
9.0	23.60	35.45	24.10	86.60	4.25
10.0	23.59	35.45	24.10	86.66	4.20
11.0	23.52	35.48	24.14	86.53	4.22
12.0	23.42	35.51	24.20	86.58	4.23

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
13.0	23.31	35.56	24.27	86.47	4.19
14.0	23.16	35.57	24.32	86.27	4.19
15.0	23.05	35.60	24.37	85.49	4.20
16.0	22.86	35.64	24.47	84.73	4.14
17.0	22.71	35.63	24.50	80.90	4.11
18.0	22.70	35.63	24.50	71.77	4.04
19.0	22.66	35.63	24.51	65.84	4.02
20.0	22.62	35.62	24.52	60.75	3.89
21.0	22.56	35.61	24.53	62.81	3.88
22.0	22.53	35.61	24.53	67.24	3.87
23.0	22.53	35.61	24.53	63.94	3.88

CAST 63

Position: 29 10.1 N, 93 00.2 W Time: 16:21 Z, 19 May 92 File: 9214018.cnv Depth: 20 m

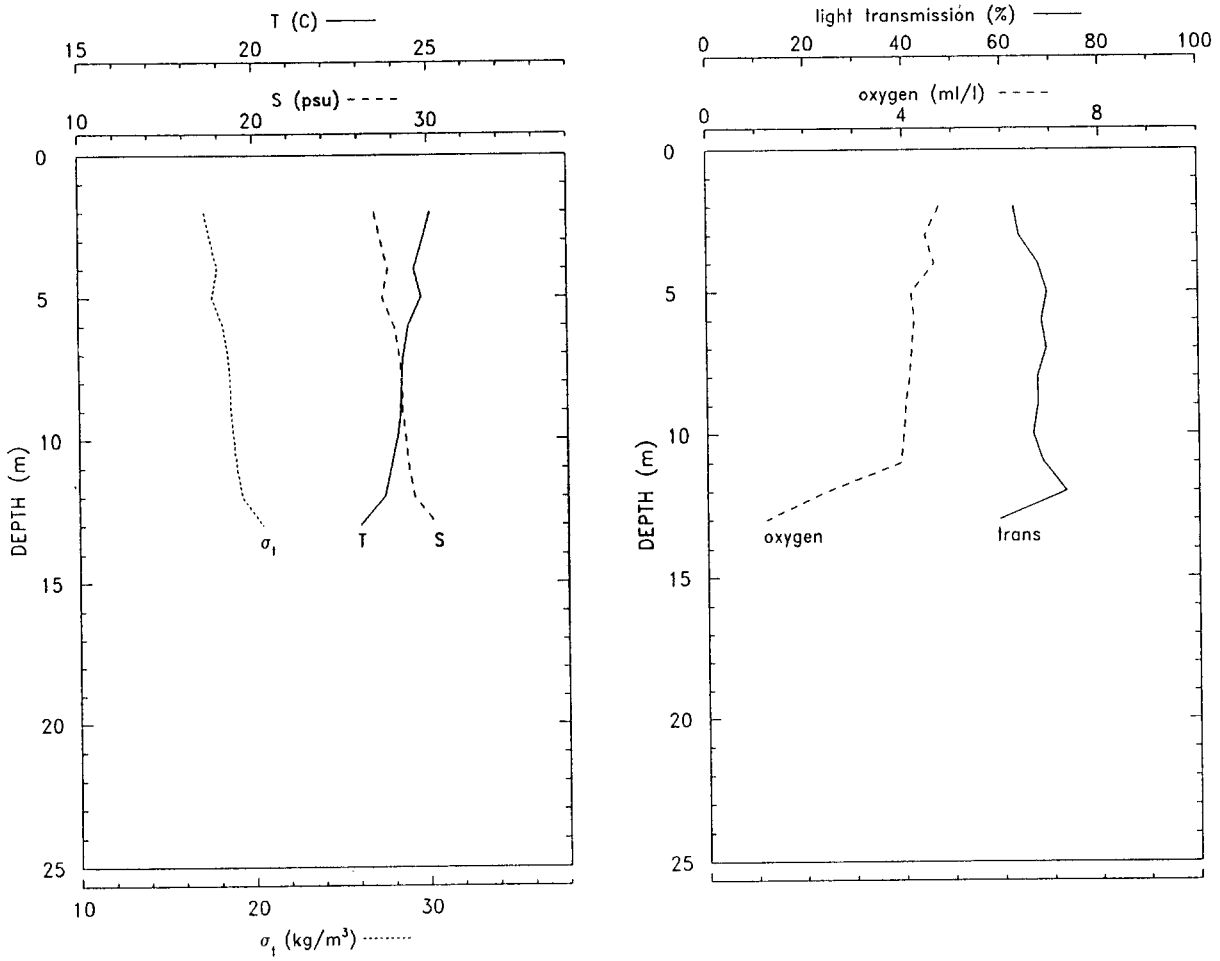


CAST 63

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.86	28.05	18.14	68.43	5.11
3.0	24.71	28.26	18.35	68.24	5.04
4.0	24.61	28.44	18.51	67.75	5.03
5.0	24.40	28.65	18.73	67.63	4.79
6.0	23.57	29.21	19.39	70.78	3.55
7.0	22.68	30.25	20.43	74.54	2.84
8.0	22.48	31.00	21.05	74.71	2.33
9.0	22.52	31.74	21.60	77.91	2.37
10.0	22.60	32.37	22.06	81.92	3.03
11.0	22.37	33.01	22.60	83.22	3.05
12.0	22.35	33.73	23.16	82.02	2.95
13.0	22.25	34.08	23.45	79.81	2.82
14.0	21.99	34.28	23.68	77.53	2.59
15.0	21.83	34.58	23.94	73.58	2.24
16.0	21.81	34.58	23.95	58.75	2.06
17.0	21.80	34.59	23.96	56.53	2.00
18.0	21.80	34.59	23.97	51.70	1.98

CAST 64

Position: 29 20.2 N, 93 00.2 W Time: 17:39 Z, 19 May 92 File: 9214020.cnv Depth: 17 m

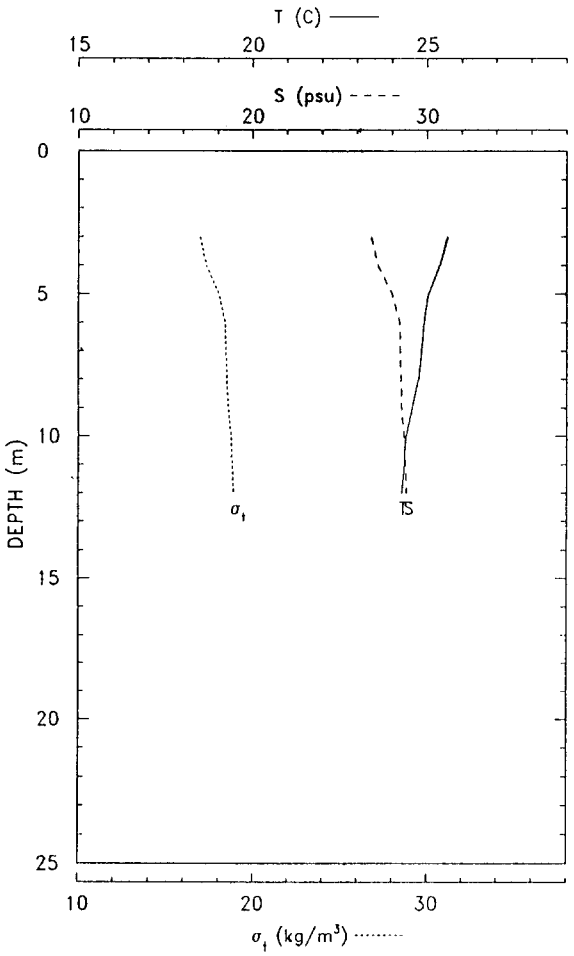


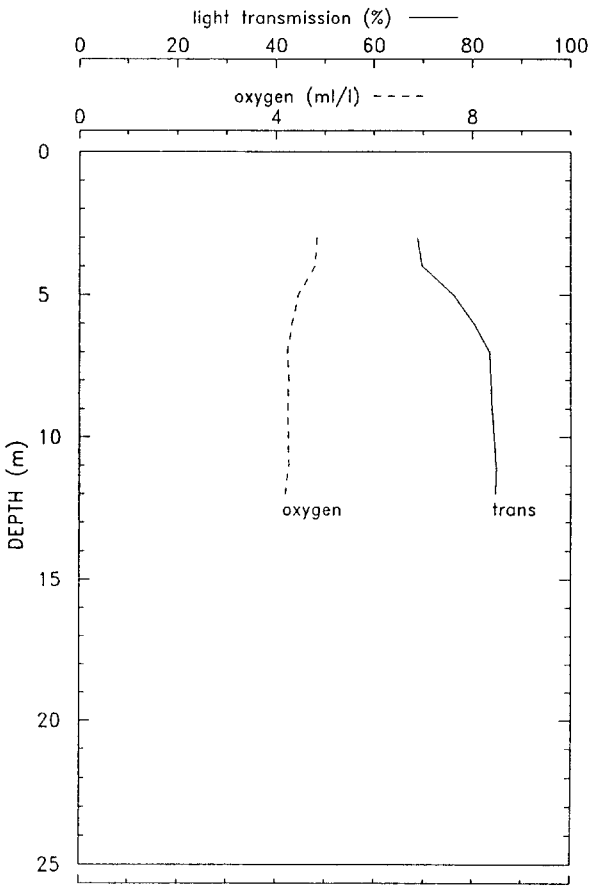
CAST 64

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.09	26.95	17.24	62:55	4.74
3.0	24.86	27.34	17.61	63.63	4.45
4.0	24.61	27.73	17.97	67.46	4.64
5.0	24.83	27.42	17.68	69.28	4.17
6.0	24.45	28.07	18.28	68.08	4.22
7.0	24.31	28.38	18.55	69.06	4.17
8.0	24.25	28.52	18.67	67.24	4.13
9.0	24.21	28.55	18.70	67.36	4.04
10.0	24.10	28.72	18.87	66.33	3.99
11.0	23.92	28.88	19.04	68.38	3.94
12.0	23.74	29.21	19.34	73.08	2.43
13.0	23.04	30.48	20.50	59.34	1.19

CAST 65

Position: 29 30.2 N, 93 00.0 W Time: 18:54 Z, 19 May 92 File: 9214022.cnv Depth: 14 m





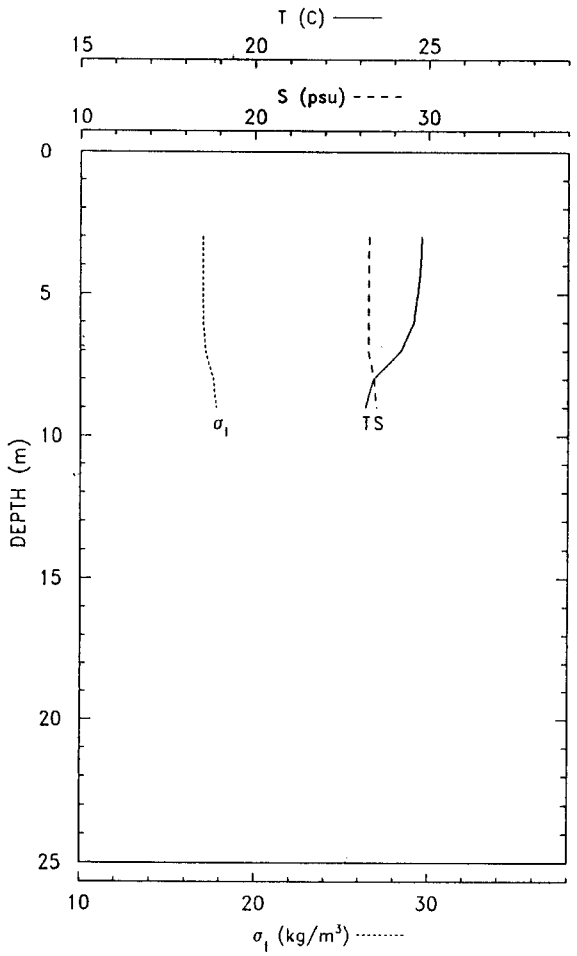
CAST 65

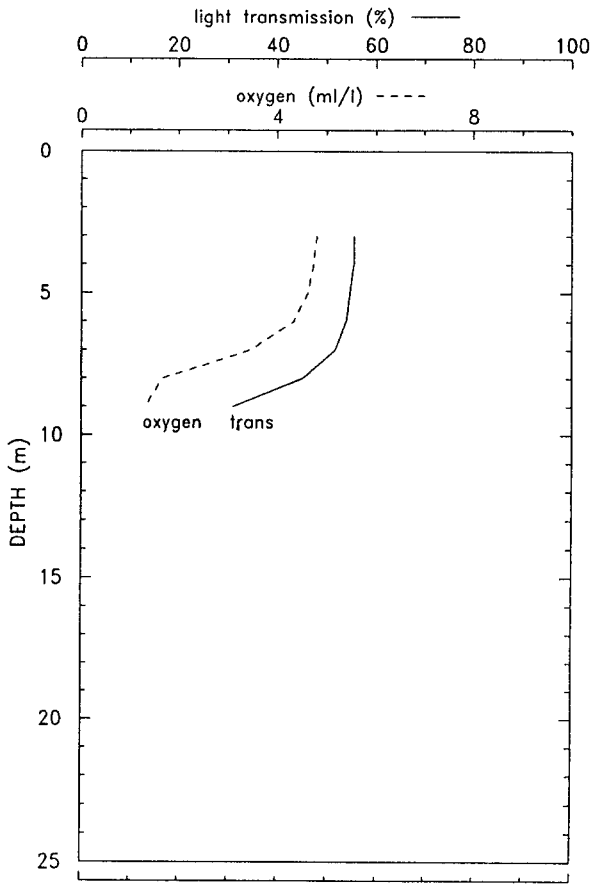
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.59	26.82	17.00	68.85	4.84
4.0	25.36	27.21	17.36	69.85	4.80
5.0	25.04	28.04	18.08	76.18	4.46
6.0	24.91	28.44	18.42	80.35	4.33
7.0	24.84	28.47	18.46	83.58	4.24
8.0	24.76	28.50	18.51	83.83	4.28
9.0	24.57	28.56	18.61	84.13	4.25
10.0	24.40	28.69	18.76	84.52	4.26
11.0	24.35	28.76	18.83	84.98	4.27
12.0	24.28	28.85	18.91	84.76	4.20

CAST 66 was deleted from the cruise plan.

CAST 67

Position: 29 30.0 N, 93 30.0 W Time: 22:02 Z, 19 May 92 File: 9214024.cnv Depth: 10 m



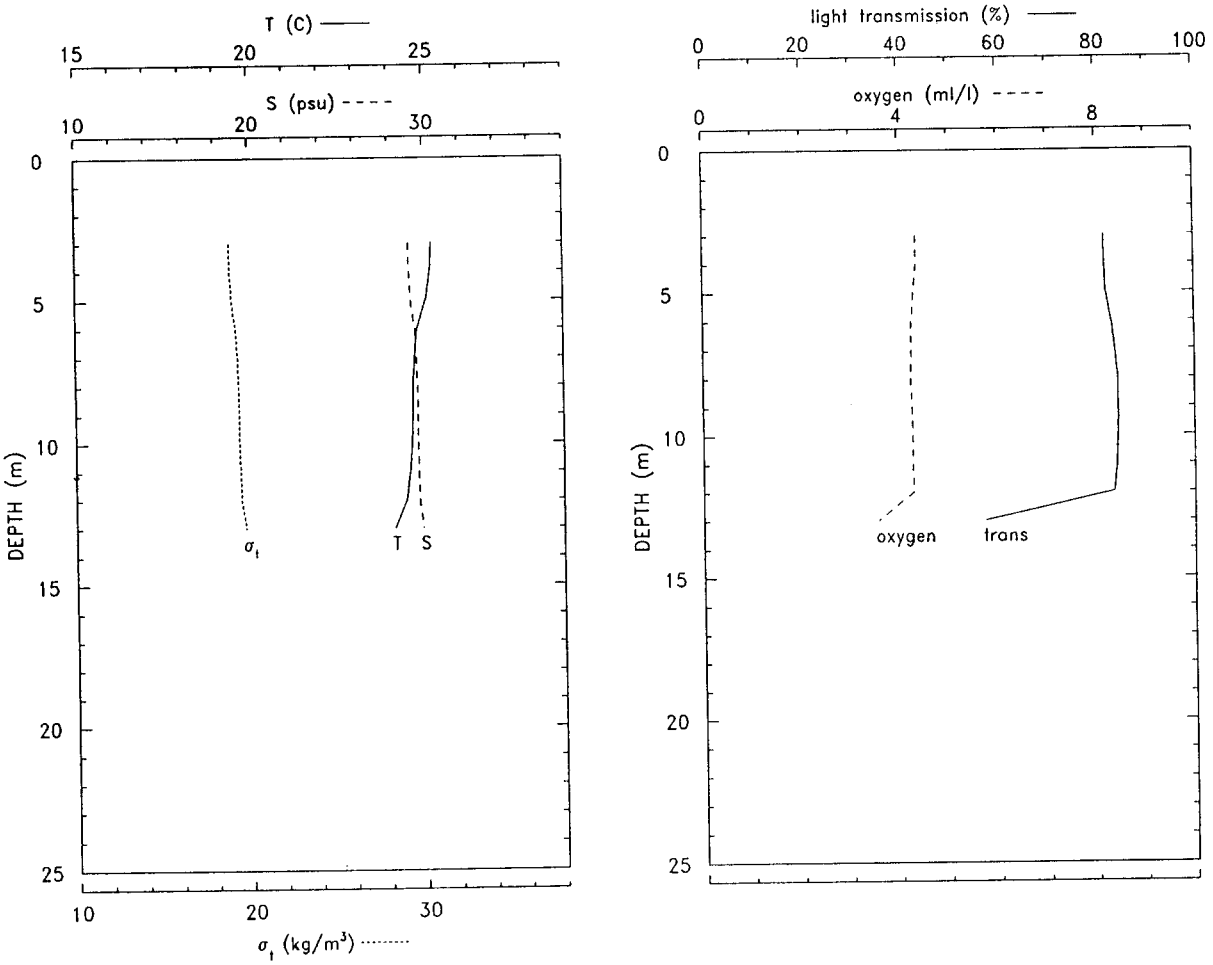


CAST 67

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.81	26.55	17.03	55.53	4.81
4.0	24.78	26.54	17.03	55.52	4.74
5.0	24.69	26.53	17.05	54.68	4.63
6.0	24.58	26.52	17.07	53.96	4.34
7.0	24.20	26.54	17.19	51.73	3.46
8.0	23.40	26.86	17.66	45.25	1.68
9.0	23.17	26.98	17.82	31.13	1.33

CAST 68

Position: 29 20.0 N, 93 30.0 W Time: 23:26 Z, 19 May 92 File: 9214026.cnv Depth: 16 m

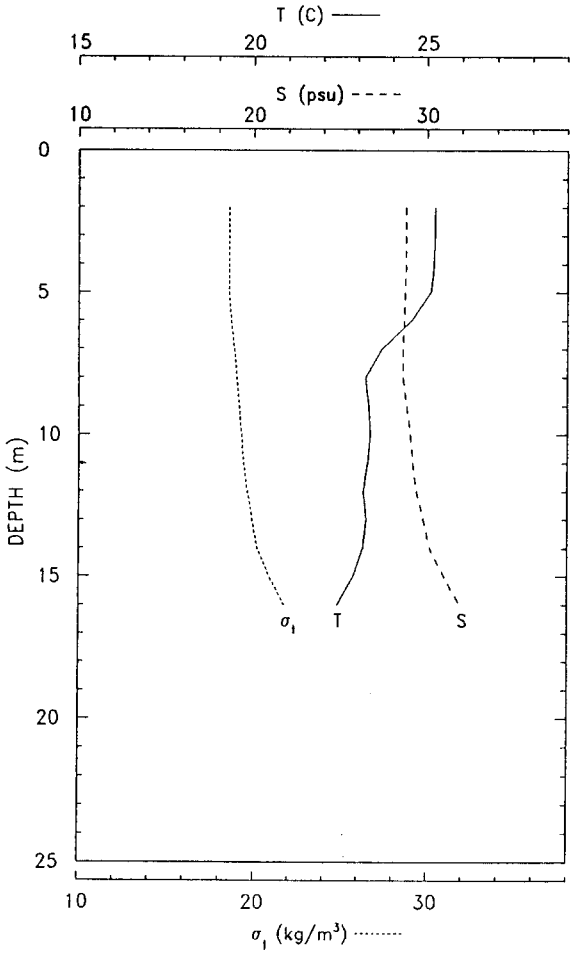


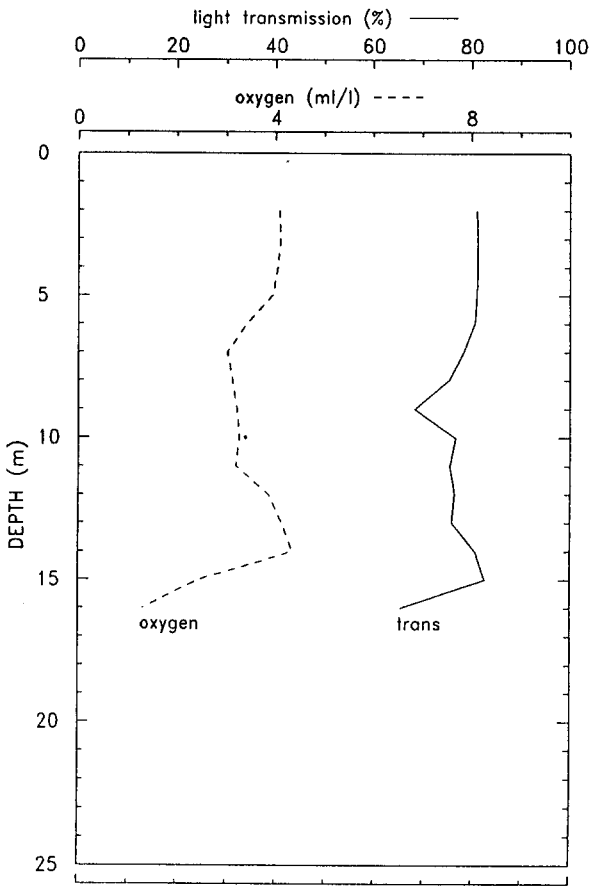
CAST 68

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.23	29.17	18.88	81.68	4.35
4.0	25.19	29.20	18.91	81.85	4.36
5.0	25.06	29.29	19.02	82.11	4.30
6.0	24.82	29.48	19.23	83.10	4.25
7.0	24.74	29.57	19.32	83.80	4.25
8.0	24.68	29.63	19.38	84.39	4.23
9.0	24.67	29.63	19.38	84.48	4.26
10.0	24.65	29.64	19.40	84.37	4.27
11.0	24.58	29.66	19.44	84.13	4.27
12.0	24.49	29.71	19.50	83.52	4.27
13.0	24.15	29.91	19.75	57.46	3.56

CAST 69

Position: 29 10.0 N, 93 30.2 W Time: 00:48 Z, 20 May 92 File: 9214102.cnv Depth: 18 m



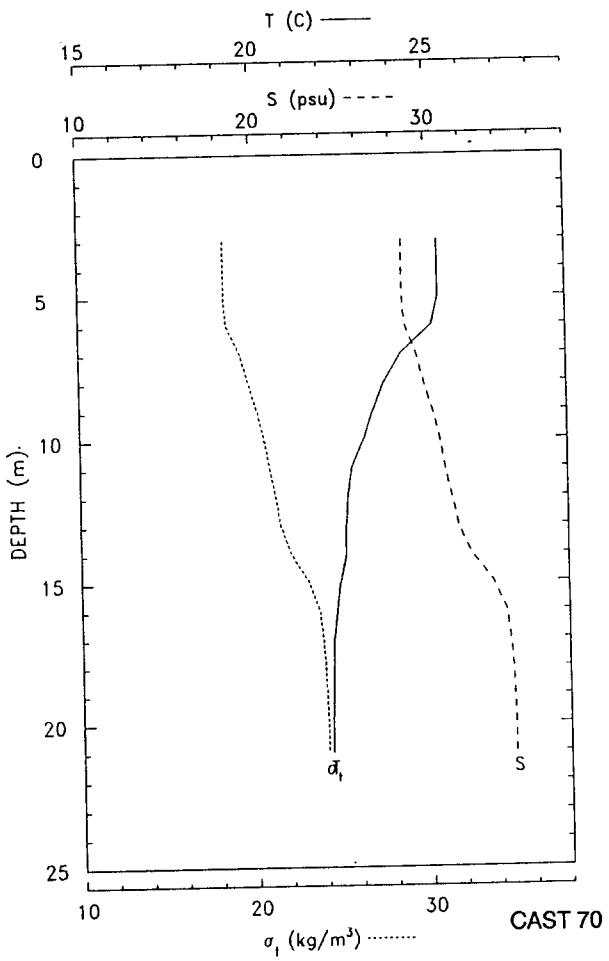


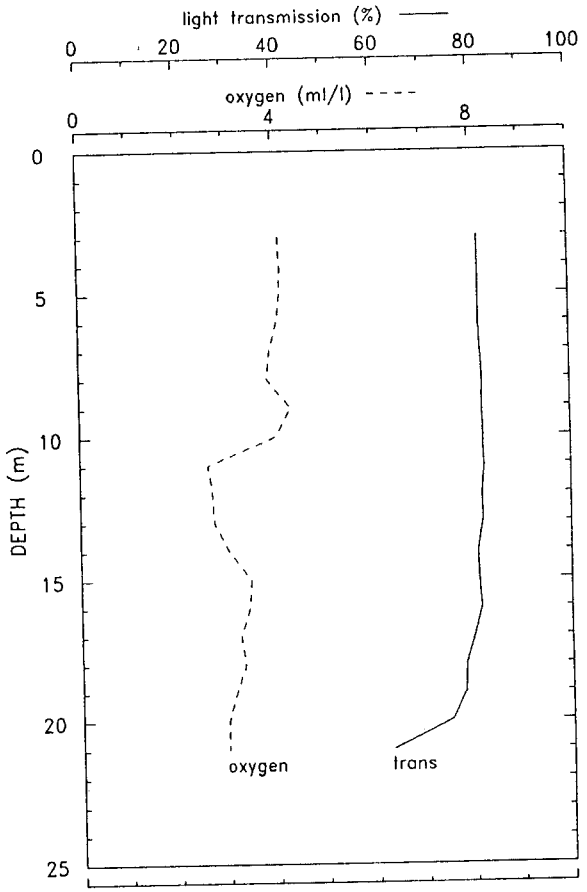
CAST 69

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.22	28.77	18.58	81.09	4.08
3.0	25.22	28.77	18.58	81.32	4.10
4.0	25.21	28.77	18.58	81.28	4.05
5.0	25.10	28.75	18.60	81.05	3.94
6.0	24.54	28.68	18.71	80.65	3.41
7.0	23.70	28.62	18.90	78.39	3.02
8.0	23.22	28.60	19.03	75.39	3.13
9.0	23.32	28.83	19.17	68.52	3.22
10.0	23.37	29.05	19.32	76.80	3.27
11.0	23.30	29.19	19.45	75.61	3.19
12.0	23.18	29.41	19.65	76.61	3.86
13.0	23.26	29.81	19.93	76.04	4.13
14.0	23.16	30.19	20.24	80.78	4.35
15.0	22.88	31.00	20.94	82.72	2.46
16.0	22.41	31.93	21.77	65.61	1.32

CAST 70

Position: 28 59.8 N, 93 30.1 W Time: 02:08 Z, 20 May 92 File: 9214104.cnv Depth: 23 m

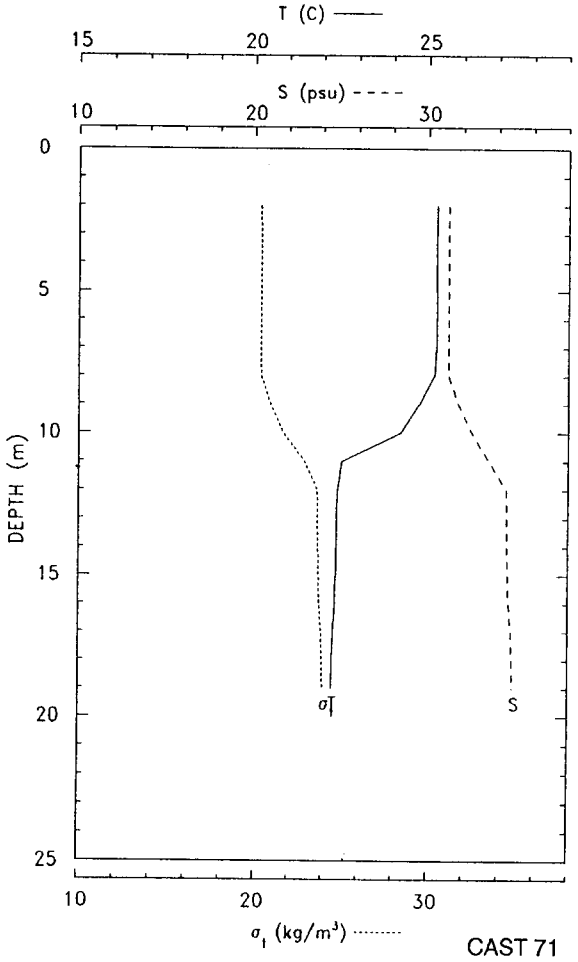




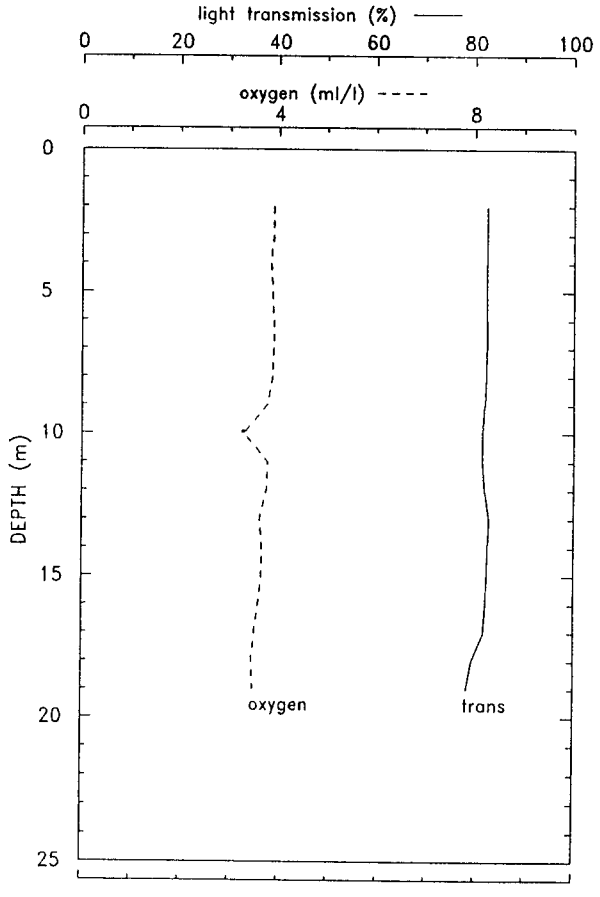
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.34	28.61	18.43	81.66	4.12
4.0	25.34	28.61	18.42	81.69	4.15
5.0	25.34	28.61	18.42	81.66	4.13
6.0	25.15	28.74	18.57	81.66	4.07
7.0	24.24	29.37	19.32	81.86	3.91
8.0	23.75	29.80	19.78	82.23	3.85
9.0	23.42	30.29	20.25	82.09	4.32
10.0	23.15	30.69	20.63	82.19	4.01
11.0	22.79	30.97	20.94	82.37	2.63
12.0	22.67	31.34	21.26	81.89	2.72
13.0	22.61	31.67	21.52	82.03	2.75
14.0	22.61	32.42	22.09	81.00	3.05
15.0	22.43	33.69	23.11	81.16	3.48
16.0	22.32	34.39	23.67	81.56	3.44
17.0	22.23	34.60	23.85	80.03	3.26
18.0	22.21	34.72	23.95	78.21	3.34
19.0	22.19	34.78	24.00	77.97	3.15
20.0	22.15	34.84	24.06	75.13	2.98
21.0	22.16	34.84	24.05	63.14	2.99

CAST 71

Position: 28 50.0 N, 93 30.4 W Time: 03:33 Z, 20 May 92 File: 9214106.cnv Depth: 21 m



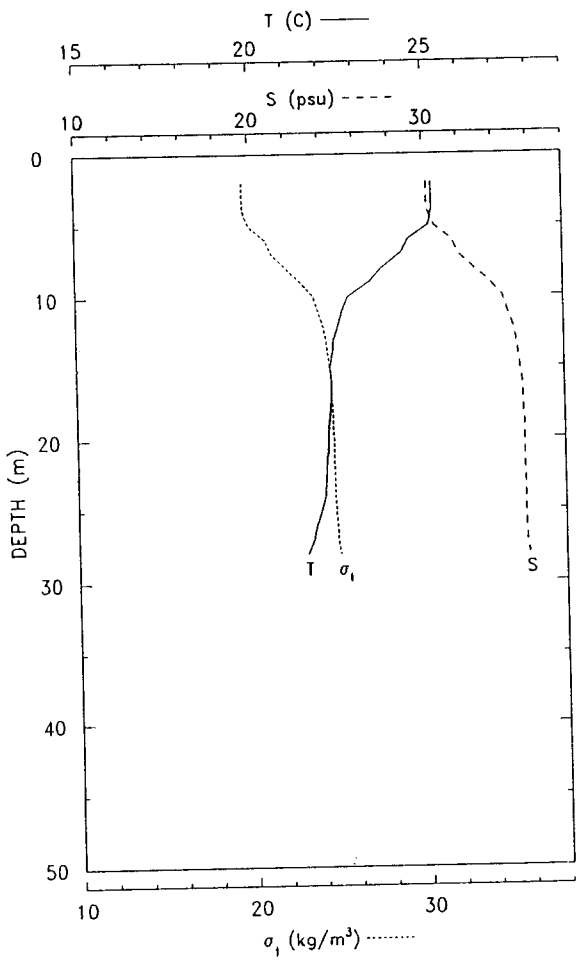
CAST 71

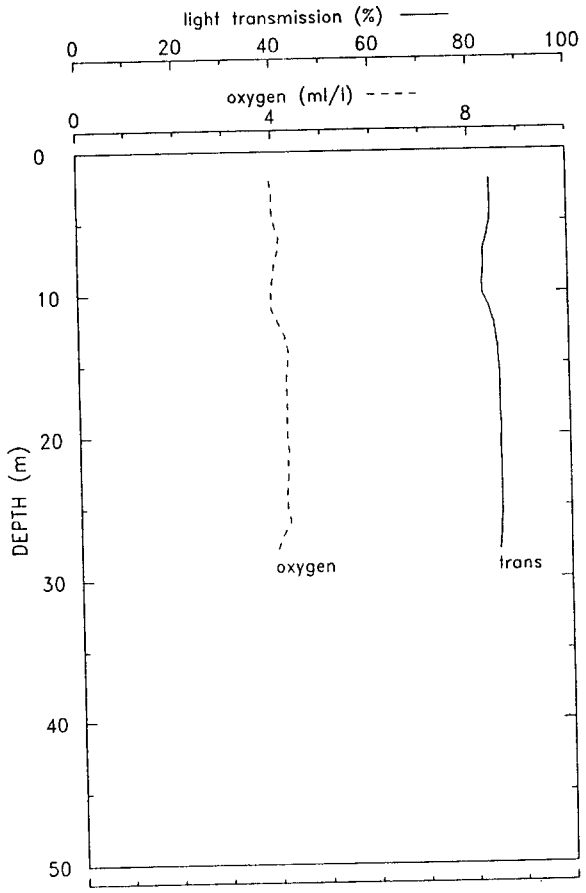


Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.24	31.14	20.36	82.44	3.89
3.0	25.23	31.14	20.36	82.48	3.90
4.0	25.23	31.14	20.36	82.46	3.84
5.0	25.23	31.14	20.36	82.40	3.88
6.0	25.23	31.14	20.36	82.48	3.90
7.0	25.23	31.14	20.36	82.49	3.90
8.0	25.17	31.17	20.40	82.41	3.89
9.0	24.75	31.72	20.94	82.08	3.78
10.0	24.22	32.50	21.69	81.61	3.30
11.0	22.55	33.51	22.93	81.65	3.78
12.0	22.43	34.46	23.69	82.11	3.76
13.0	22.40	34.48	23.71	82.98	3.62
14.0	22.39	34.51	23.74	82.69	3.67
15.0	22.38	34.55	23.77	82.53	3.66
16.0	22.36	34.62	23.83	82.38	3.60
17.0	22.31	34.75	23.94	81.93	3.52
18.0	22.28	34.80	23.99	79.54	3.47
19.0	22.26	34.84	24.02	78.45	3.49

CAST 72

Position: 28 40.0 N, 93 30.1 W Time: 04:58 Z, 20 May 92 File: 9214108.cnv Depth: 30 m





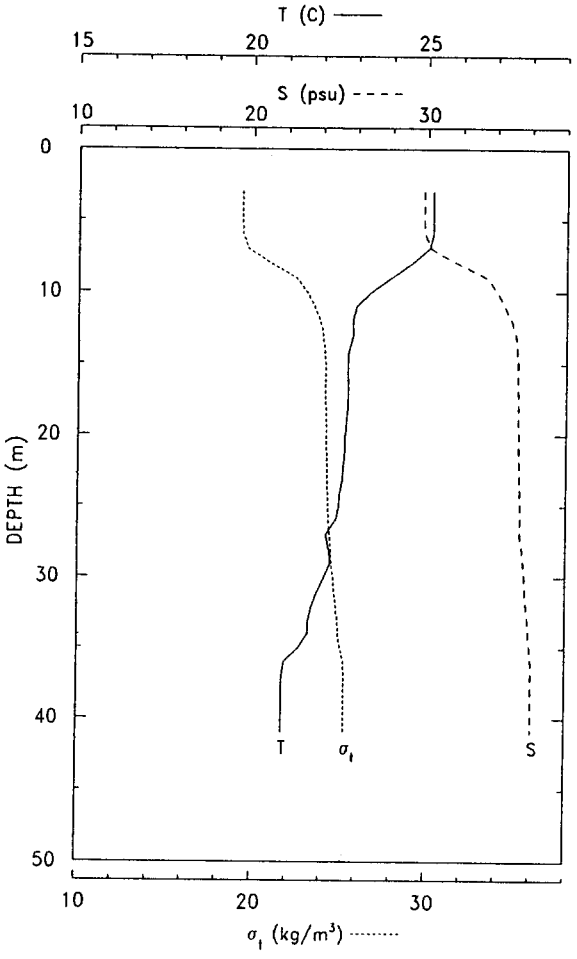
CAST 72

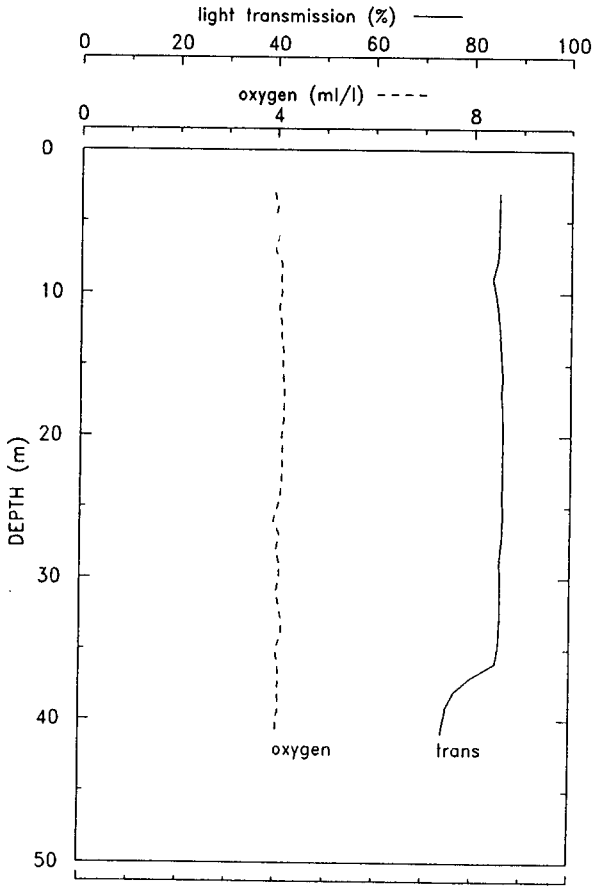
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.25	30.21	19.65	84.33	3.95
3.0	25.25	30.20	19.65	84.41	4.00
4.0	25.25	30.26	19.69	84.38	3.98
5.0	25.17	30.62	19.99	84.24	4.03
6.0	24.56	31.65	20.95	83.55	4.13
7.0	24.34	32.01	21.28	82.74	4.10
8.0	23.81	32.86	22.08	82.78	4.02
9.0	23.42	33.82	22.92	82.57	3.99
10.0	22.83	34.55	23.64	82.49	3.96
11.0	22.65	34.81	23.89	83.84	3.96
12.0	22.52	35.12	24.16	84.72	4.09
13.0	22.38	35.28	24.33	85.12	4.22
14.0	22.35	35.39	24.42	85.57	4.28
15.0	22.27	35.49	24.52	85.74	4.27

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
16.0	22.32	35.61	24.59	85.85	4.23
17.0	22.30	35.63	24.62	85.83	4.24
18.0	22.26	35.66	24.65	85.83	4.24
19.0	22.21	35.67	24.67	85.88	4.23
20.0	22.19	35.68	24.68	85.88	4.23
21.0	22.17	35.69	24.70	85.79	4.26
22.0	22.12	35.69	24.71	85.92	4.24
23.0	22.11	35.70	24.72	85.94	4.24
24.0	22.08	35.70	24.73	85.94	4.21
25.0	21.96	35.71	24.77	85.92	4.22
26.0	21.82	35.74	24.83	85.77	4.28
27.0	21.73	35.76	24.88	85.68	4.12
28.0	21.55	35.87	25.00	85.46	4.01

CAST 73

Position: 28 30.0 N, 93 30.0 W Time: 06:34 Z, 20 May 92 File: 9214110.cnv Depth: 42 m



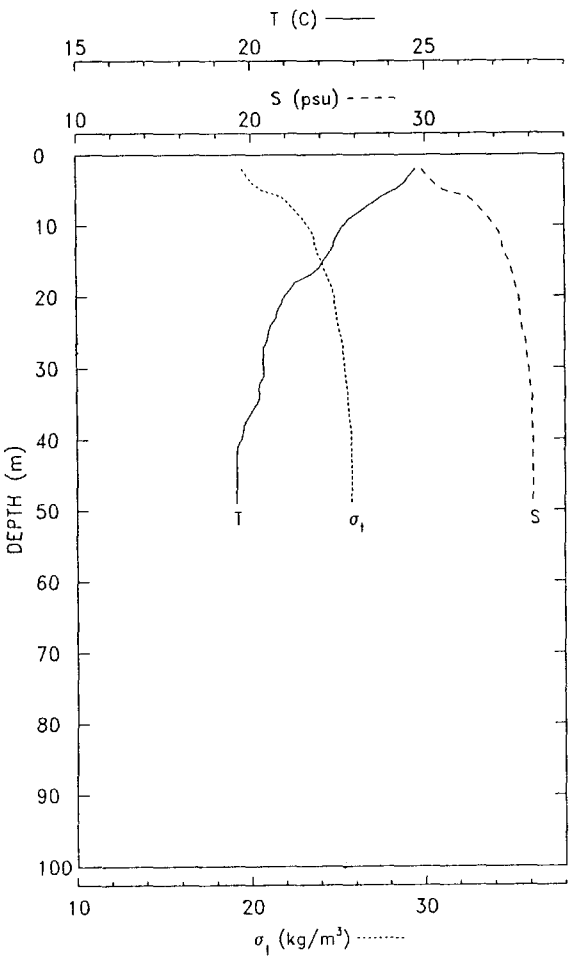


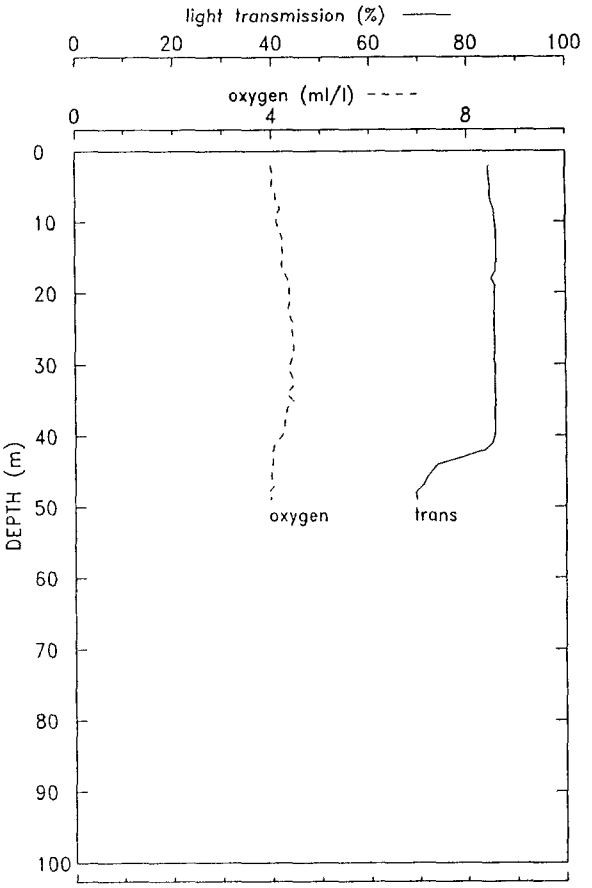
CAST 73

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	25.15	29.78	19.36	85.04	3.95
4.0	25.15	29.79	19.36	85.02	4.02
5.0	25.15	29.80	19.37	85.00	3.95
6.0	25.14	29.83	19.40	85.00	4.03
7.0	25.03	30.20	19.71	84.99	3.97
8.0	24.55	31.68	20.97	84.62	4.11
9.0	23.97	33.43	22.46	83.79	4.09
10.0	23.40	34.03	23.08	84.41	4.11
11.0	22.98	34.46	23.53	84.89	4.06
12.0	22.87	34.85	23.86	85.26	4.10
13.0	22.89	35.10	24.04	85.38	4.10
14.0	22.78	35.18	24.14	85.60	4.15
15.0	22.74	35.23	24.18	85.77	4.13
16.0	22.75	35.22	24.18	85.89	4.15
17.0	22.75	35.24	24.19	85.68	4.17
18.0	22.74	35.26	24.20	85.93	4.16
19.0	22.70	35.27	24.22	85.96	4.16
20.0	22.66	35.28	24.24	85.98	4.11
21.0	22.65	35.29	24.25	85.96	4.14
22.0	22.62	35.32	24.29	85.98	4.12

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
23.0	22.60	35.33	24.30	85.97	4.13
24.0	22.53	35.36	24.34	86.03	4.11
25.0	22.50	35.39	24.38	86.07	4.05
26.0	22.42	35.40	24.41	86.10	3.95
27.0	22.14	35.39	24.48	86.03	4.09
28.0	22.22	35.52	24.55	85.71	4.01
29.0	22.27	35.60	24.60	85.40	4.09
30.0	22.09	35.68	24.71	85.64	4.09
31.0	21.90	35.71	24.79	85.60	4.02
32.0	21.74	35.78	24.88	85.61	4.09
33.0	21.64	35.86	24.97	85.59	4.13
34.0	21.63	35.93	25.03	85.53	4.14
35.0	21.37	35.99	25.15	85.35	4.02
36.0	20.94	36.08	25.34	84.79	4.06
37.0	20.89	36.09	25.36	79.97	4.09
38.0	20.88	36.09	25.36	76.58	4.06
39.0	20.88	36.09	25.36	75.05	4.09
40.0	20.88	36.09	25.36	74.48	4.03
41.0	20.88	36.09	25.36	73.91	4.03

Position: 28 20.1 N, 94 00.1 W Time: 11:13 Z, 20 May 92 File: 9214112.cnv Depth: 54 m





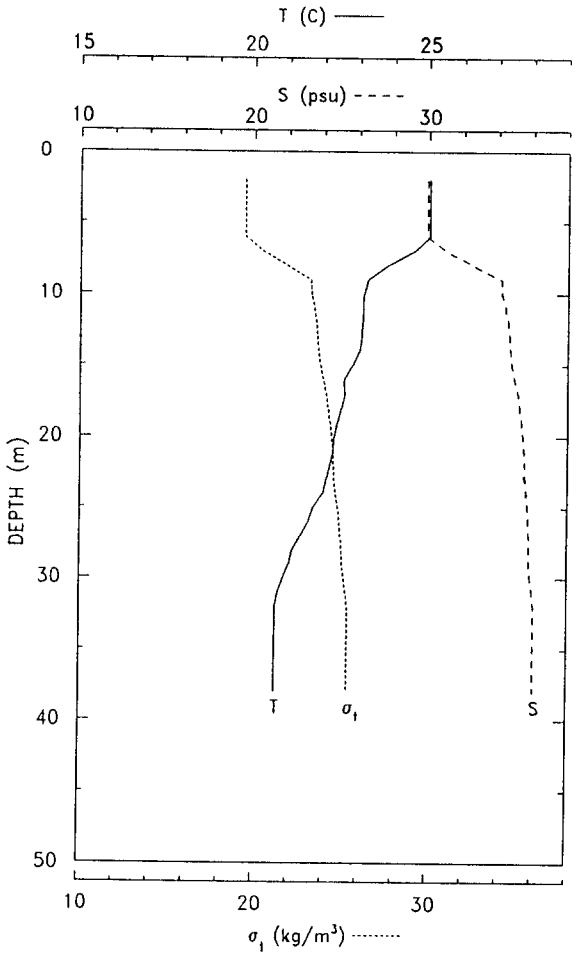
CAST 74

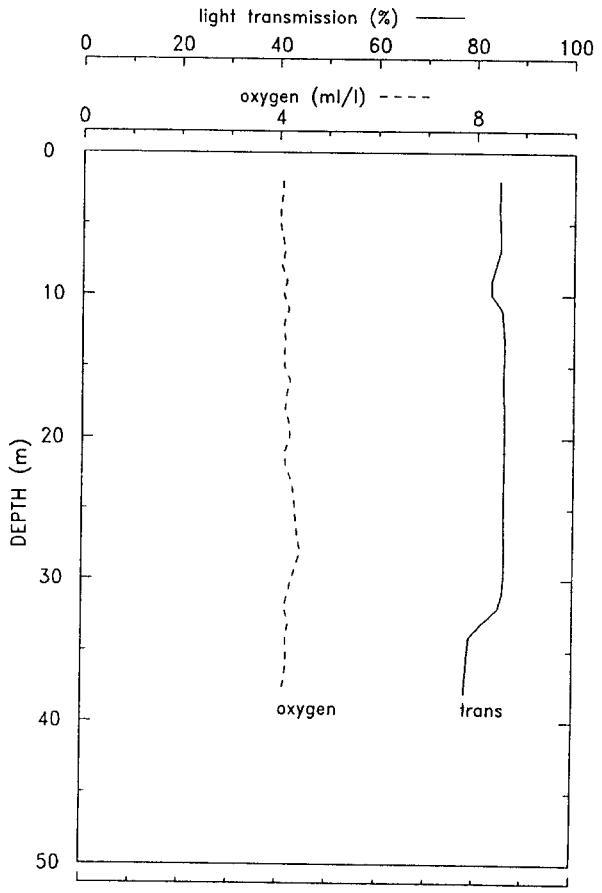
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.74	29.83	19.52	84.56	3.99
3.0	24.57	30.15	19.81	84.47	4.02
4.0	24.42	30.50	20.12	84.59	4.03
5.0	24.14	31.08	20.64	84.82	4.00
6.0	23.75	32.47	21.80	84.64	4.07
7.0	23.45	32.94	22.24	84.78	4.08
8.0	23.16	33.32	22.61	85.34	4.16
9.0	22.84	33.69	22.99	85.57	4.11
10.0	22.67	34.00	23.27	85.79	4.10
11.0	22.53	34.28	23.53	85.86	4.17
12.0	22.40	34.39	23.64	85.90	4.21
13.0	22.34	34.45	23.71	85.94	4.21
14.0	22.24	34.61	23.85	85.95	4.22
15.0	22.08	34.82	24.06	85.94	4.24
16.0	21.96	34.93	24.18	85.87	4.21
17.0	21.70	35.06	24.35	85.82	4.25
18.0	21.27	35.13	24.52	84.93	4.33
19.0	21.13	35.29	24.68	85.73	4.36
20.0	20.95	35.35	24.78	85.57	4.35
21.0	20.88	35.40	24.83	85.63	4.36
22.0	20.76	35.43	24.89	85.55	4.35
23.0	20.72	35.48	24.93	85.59	4.36
24.0	20.57	35.52	25.01	85.49	4.43
25.0	20.50	35.60	25.09	85.56	4.41

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
26.0	20.45	35.73	25.20	85.64	4.43
27.0	20.37	35.79	25.27	85.63	4.44
28.0	20.36	35.84	25.31	85.68	4.44
29.0	20.34	35.89	25.35	85.44	4.43
30.0	20.36	35.94	25.38	85.74	4.37
31.0	20.37	36.00	25.42	85.74	4.37
32.0	20.25	36.01	25.46	85.64	4.45
33.0	20.22	36.06	25.51	85.66	4.43
34.0	20.26	36.13	25.55	85.69	4.30
35.0	20.18	36.13	25.58	85.70	4.44
36.0	20.03	36.12	25.61	85.69	4.33
37.0	19.90	36.06	25.60	85.68	4.29
38.0	19.80	36.13	25.68	85.75	4.26
39.0	19.77	36.15	25.70	85.79	4.25
40.0	19.72	36.16	25.72	85.60	4.20
41.0	19.63	36.16	25.75	85.19	4.06
42.0	19.60	36.16	25.76	83.60	4.02
43.0	19.59	36.16	25.76	79.18	4.04
44.0	19.59	36.16	25.76	73.92	4.02
45.0	19.58	36.16	25.76	72.84	3.99
46.0	19.58	36.16	25.76	71.61	4.00
47.0	19.58	36.16	25.76	70.93	4.05
48.0	19.58	36.16	25.76	69.38	3.93
49.0	19.58	36.16	25.76	69.68	4.00

CAST 75

Position: 28 30.2 N, 94 00.4 W Time: 12:35 Z, 20 May 92 File: 9214114.cnv Depth: 40 m





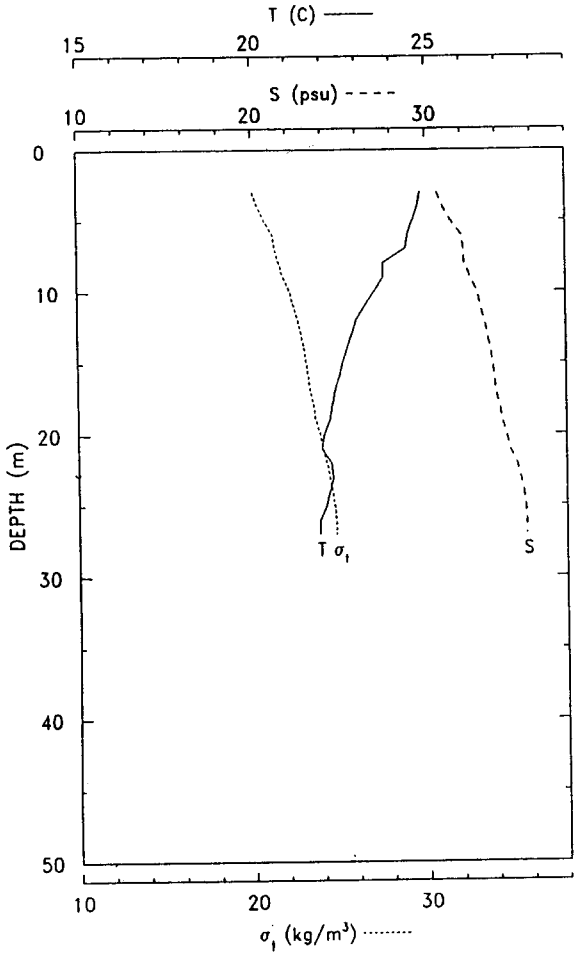
CAST 75

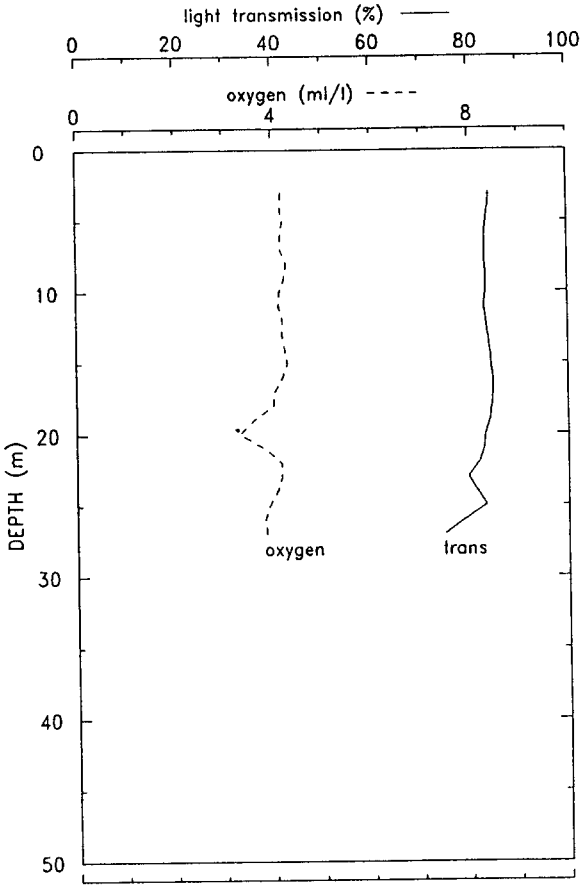
Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.03	29.92	19.50	84.78	4.07
3.0	25.03	29.92	19.50	84.80	4.06
4.0	25.03	29.92	19.50	84.66	4.02
5.0	25.03	29.92	19.50	84.86	4.02
6.0	25.03	29.92	19.50	84.99	4.08
7.0	24.59	31.00	20.44	84.96	4.12
8.0	23.84	32.55	21.84	84.01	4.06
9.0	23.26	34.20	23.25	83.12	4.16
10.0	23.14	34.23	23.31	83.14	4.10
11.0	23.13	34.43	23.47	85.31	4.22
12.0	23.10	34.59	23.60	85.69	4.12
13.0	23.09	34.66	23.65	85.86	4.13
14.0	23.03	34.71	23.71	85.91	4.13
15.0	22.84	34.80	23.83	85.93	4.13
16.0	22.59	34.94	24.00	85.85	4.25
17.0	22.61	35.16	24.17	85.91	4.18
18.0	22.52	35.26	24.27	86.01	4.14
19.0	22.40	35.37	24.39	86.04	4.22
20.0	22.31	35.44	24.47	86.06	4.24

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
21.0	22.29	35.52	24.54	86.01	4.13
22.0	22.18	35.55	24.59	86.00	4.16
23.0	22.09	35.56	24.62	85.97	4.26
24.0	22.00	35.65	24.72	85.88	4.32
25.0	21.72	35.73	24.85	85.88	4.34
26.0	21.59	35.76	24.92	85.95	4.37
27.0	21.37	35.81	25.01	85.98	4.40
28.0	21.13	35.80	25.07	86.08	4.47
29.0	21.04	35.81	25.10	85.96	4.38
30.0	20.87	35.89	25.21	86.01	4.28
31.0	20.72	35.99	25.33	85.75	4.21
32.0	20.64	36.08	25.42	84.85	4.13
33.0	20.63	36.09	25.42	81.78	4.23
34.0	20.63	36.08	25.42	79.02	4.17
35.0	20.63	36.08	25.42	78.68	4.18
36.0	20.63	36.08	25.42	78.44	4.18
37.0	20.63	36.08	25.42	78.29	4.16
38.0	20.63	36.08	25.42	78.12	4.09

CAST 76

Position: 28 40.2 N, 94 00.0 W Time: 13:52 Z, 20 May 92 File: 9214116.cnv Depth: 29 m



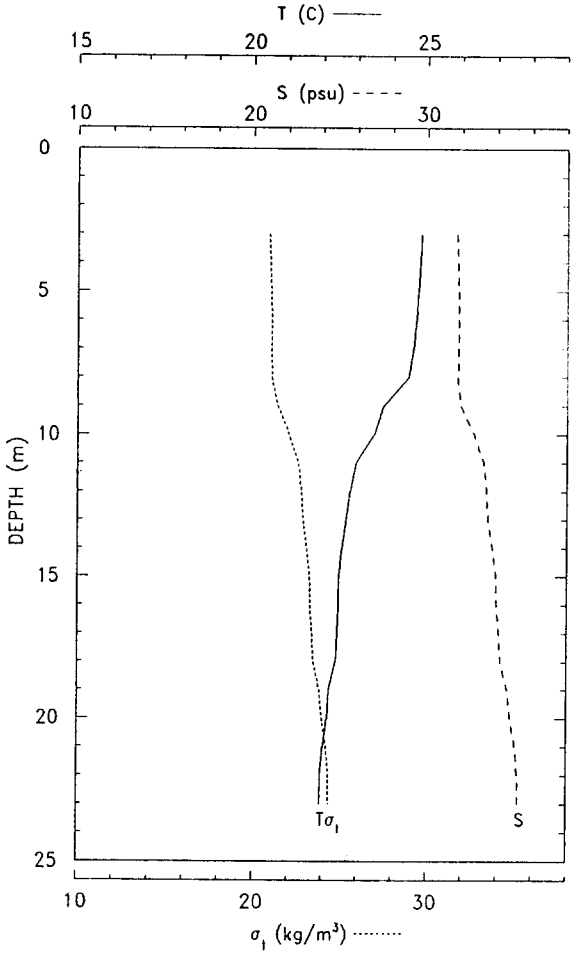


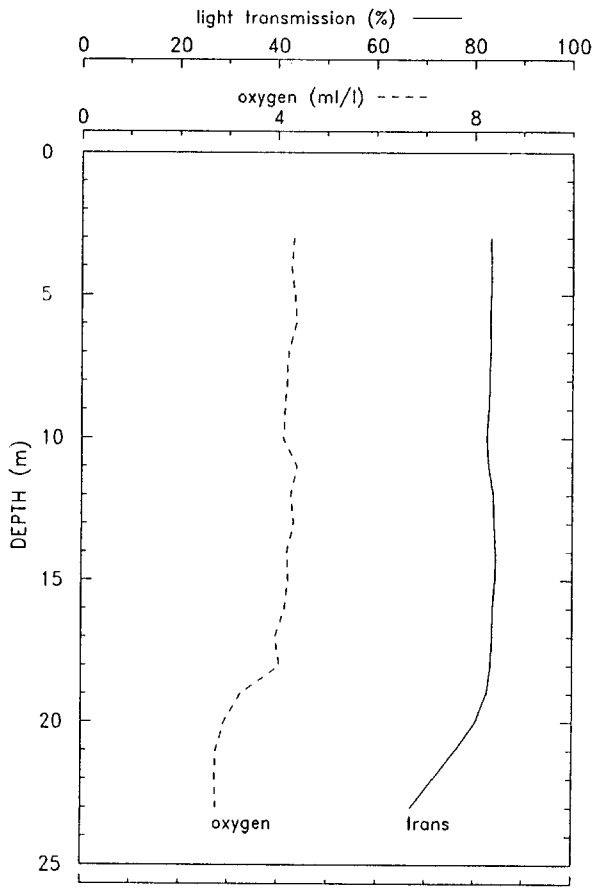
CAST 76

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.86	30.66	20.11	84.15	4.19
4.0	24.78	31.01	20.40	84.00	4.17
5.0	24.63	31.46	20.78	83.56	4.23
6.0	24.50	32.04	21.26	83.26	4.18
7.0	24.42	32.17	21.38	83.24	4.17
8.0	23.78	32.20	21.59	83.31	4.29
9.0	23.77	32.55	21.85	83.41	4.25
10.0	23.52	32.92	22.21	83.44	4.15
11.0	23.25	33.09	22.42	83.06	4.13
12.0	22.99	33.32	22.66	83.46	4.21
13.0	22.86	33.48	22.82	83.84	4.20
14.0	22.73	33.66	23.00	84.19	4.25
15.0	22.59	33.78	23.13	84.41	4.30
16.0	22.49	33.88	23.23	84.80	4.21
17.0	22.36	33.97	23.34	84.81	4.04
18.0	22.28	34.16	23.51	84.54	4.02
19.0	22.21	34.29	23.62	84.11	3.62
20.0	22.05	34.55	23.87	83.14	3.33
21.0	21.97	34.73	24.02	82.85	3.85
22.0	22.24	35.11	24.24	81.88	4.17
23.0	22.30	35.33	24.39	79.69	4.18
24.0	22.20	35.51	24.55	81.48	4.08
25.0	22.10	35.61	24.66	83.32	3.93
26.0	21.92	35.65	24.73	79.06	3.83
27.0	21.90	35.65	24.74	74.99	3.87

CAST 77

Position: 28 50.0 N, 94 00.0 W Time: 15:08 Z, 20 May 92 File: 9214118.cnv Depth: 24 m



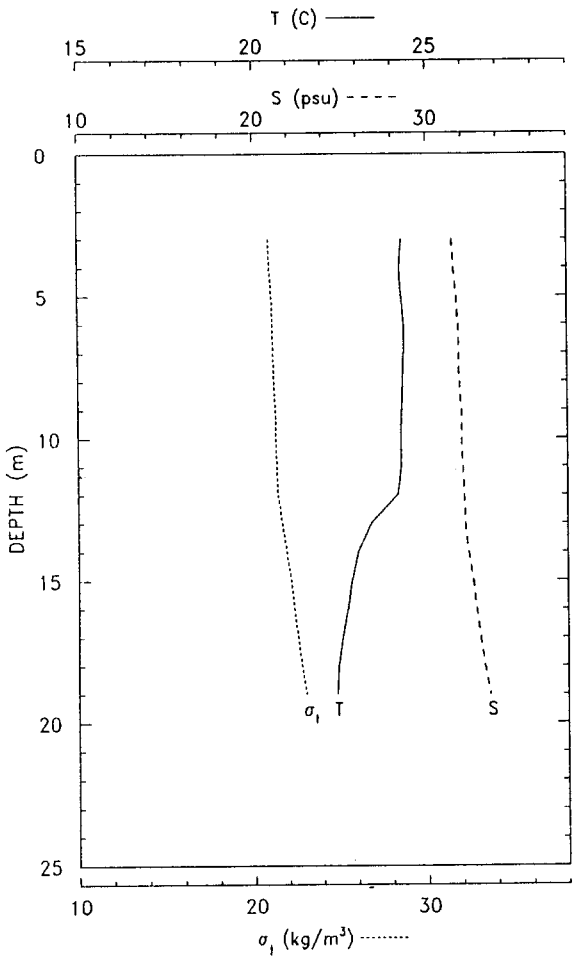


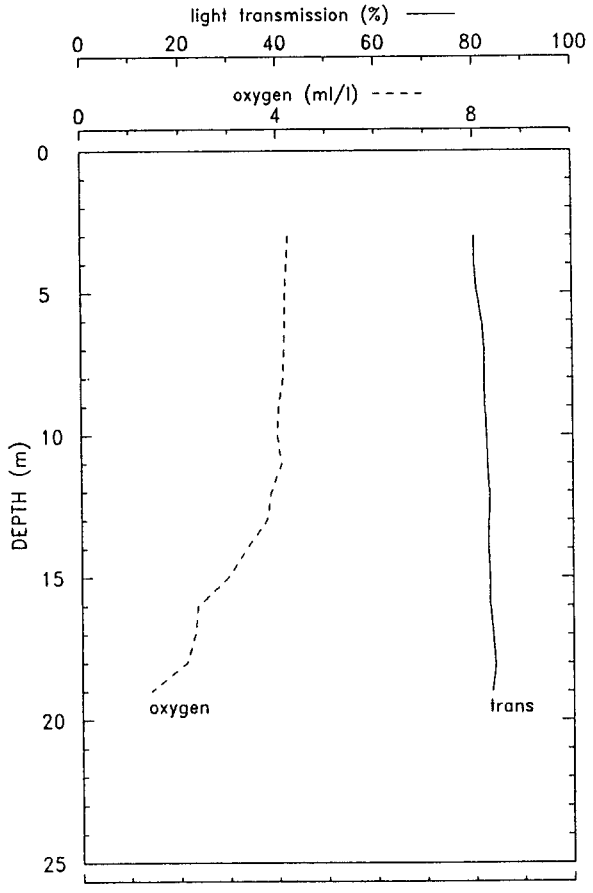
CAST 77

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.83	31.70	20.90	83.29	4.33
4.0	24.79	31.76	20.96	83.40	4.28
5.0	24.75	31.82	21.02	83.39	4.36
6.0	24.70	31.82	21.03	83.21	4.38
7.0	24.62	31.81	21.05	83.32	4.22
8.0	24.47	31.77	21.06	83.14	4.20
9.0	23.74	31.94	21.40	83.01	4.15
10.0	23.48	32.72	22.07	82.54	4.12
11.0	22.96	33.25	22.62	82.93	4.39
12.0	22.80	33.42	22.79	83.90	4.26
13.0	22.68	33.51	22.89	84.14	4.33
14.0	22.57	33.75	23.11	84.47	4.20
15.0	22.48	33.95	23.29	84.34	4.22
16.0	22.47	33.99	23.32	83.83	4.15
17.0	22.44	34.12	23.43	83.68	3.96
18.0	22.40	34.22	23.52	83.39	4.05
19.0	22.20	34.61	23.87	82.62	3.26
20.0	22.15	34.79	24.02	80.39	2.92
21.0	22.04	35.08	24.27	76.25	2.75
22.0	21.96	35.22	24.39	71.71	2.74
23.0	21.95	35.24	24.42	67.15	2.75

CAST 78

Position: 28 59.9 N, 94 00.1 W Time: 16:27 Z, 20 May 92 File: 9214120.cnv Depth: 20 m



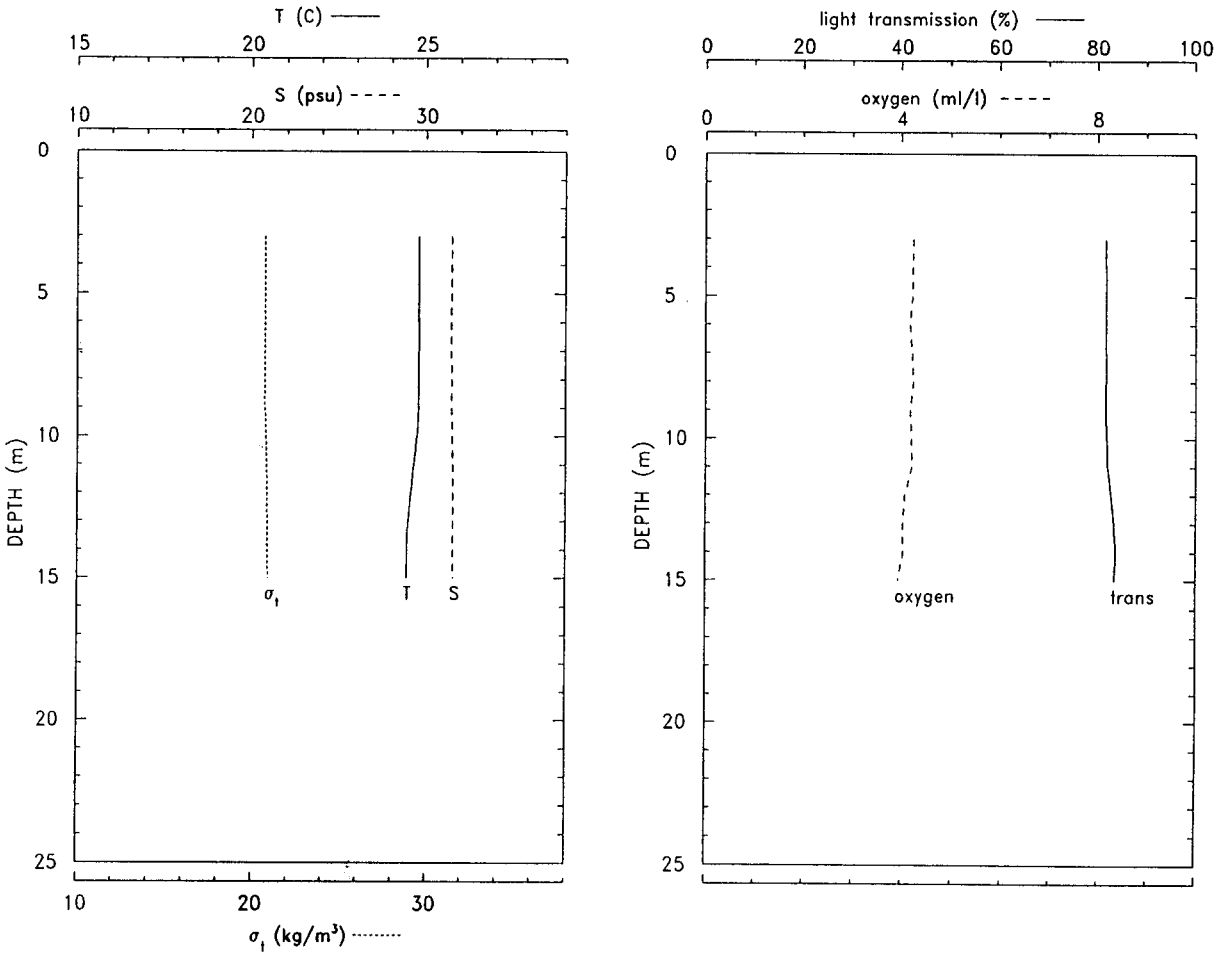


CAST 78

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.28	31.48	20.90	80.32	4.24
4.0	24.23	31.54	20.96	80.23	4.20
5.0	24.28	31.71	21.07	80.79	4.16
6.0	24.35	31.80	21.12	81.68	4.15
7.0	24.34	31.83	21.14	82.10	4.14
8.0	24.31	31.88	21.19	82.08	4.12
9.0	24.28	31.96	21.26	82.27	4.03
10.0	24.26	31.99	21.29	82.54	3.99
11.0	24.25	32.04	21.33	82.70	4.08
12.0	24.16	32.11	21.41	83.16	3.87
13.0	23.39	32.15	21.67	82.92	3.77
14.0	23.02	32.34	21.91	82.87	3.36
15.0	22.84	32.60	22.17	83.19	2.98
16.0	22.72	32.79	22.34	83.20	2.36
17.0	22.57	33.01	22.55	83.73	2.30
18.0	22.44	33.25	22.77	84.30	2.12
19.0	22.40	33.57	23.02	83.50	1.41

CAST 79

Position: 29 10.1 N, 94 00.2 W Time: 17:47 Z, 20 May 92 File: 9214122.cnv Depth: 17 m

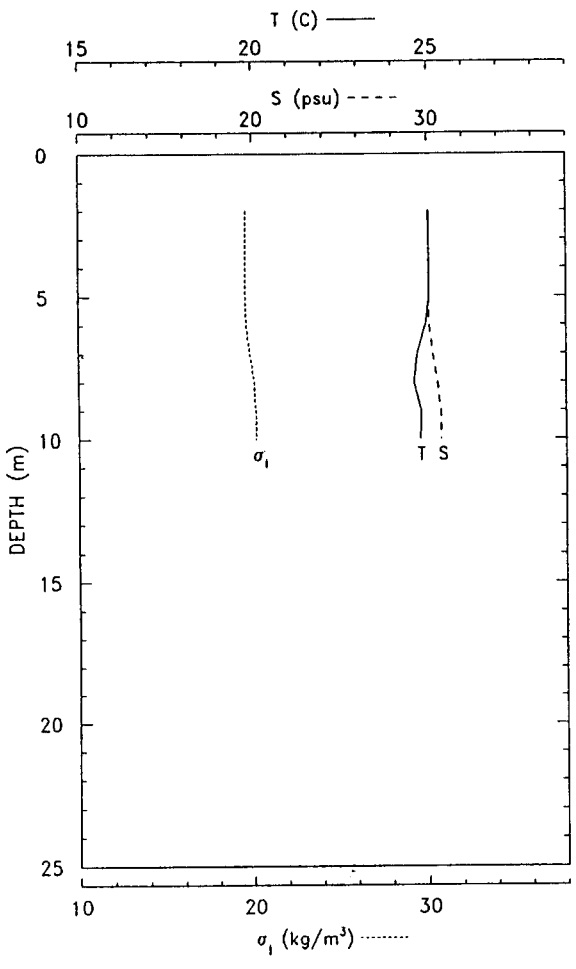


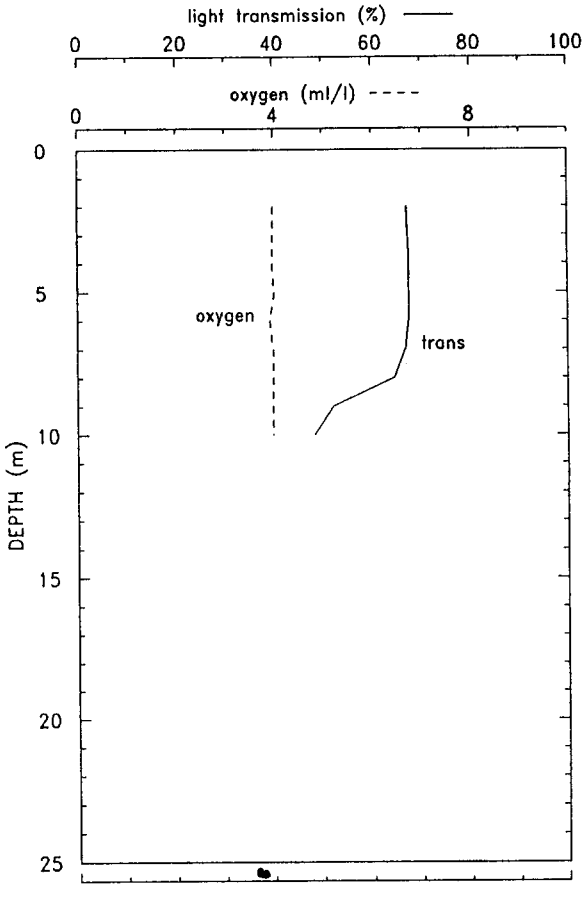
CAST 79

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.79	31.49	20.75	81.64	4.26
4.0	24.79	31.48	20.75	81.70	4.23
5.0	24.79	31.48	20.75	81.71	4.23
6.0	24.80	31.48	20.74	81.73	4.18
7.0	24.80	31.48	20.74	81.82	4.22
8.0	24.79	31.48	20.75	81.81	4.25
9.0	24.79	31.49	20.76	81.74	4.19
10.0	24.74	31.53	20.80	81.92	4.21
11.0	24.65	31.58	20.86	82.05	4.22
12.0	24.58	31.57	20.88	82.74	4.08
13.0	24.50	31.57	20.90	83.35	4.04
14.0	24.46	31.57	20.91	83.79	4.05
15.0	24.43	31.57	20.92	83.46	3.94

CAST 80

Position: 29 20.0 N, 93 59.9 W Time: 19:06 Z, 20 May 92 File: 9214124.cnv Depth: 12 m



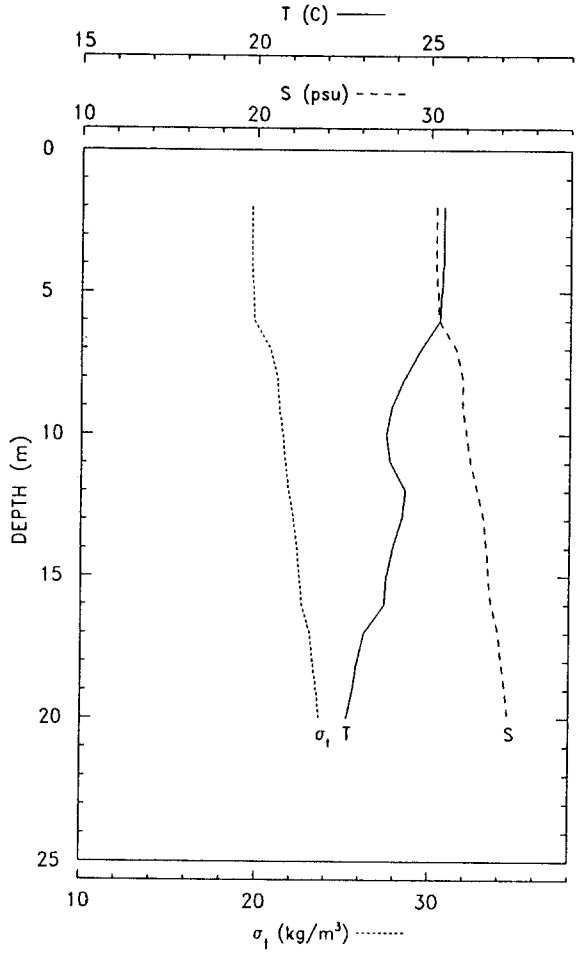


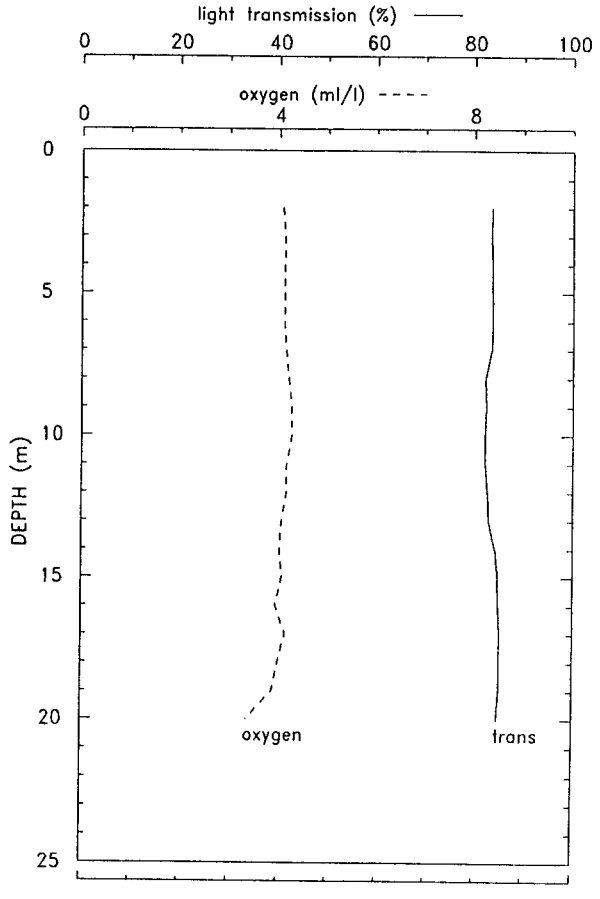
CAST 80

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.03	30.11	19.64	67.15	3.99
3.0	25.06	30.10	19.63	67.42	3.99
4.0	25.06	30.10	19.63	67.55	3.98
5.0	25.05	30.10	19.63	67.59	4.02
6.0	24.95	30.13	19.68	67.48	3.93
7.0	24.72	30.33	19.90	66.88	4.00
8.0	24.63	30.59	20.13	64.61	4.00
9.0	24.83	30.77	20.20	52.22	3.99
10.0	24.79	30.78	20.22	48.36	3.99

CAST 81

Position: 28 49.9 N, 94 29.8 W Time: 23:43 Z, 20 May 92 File: 9214126.cnv Depth: 21 m



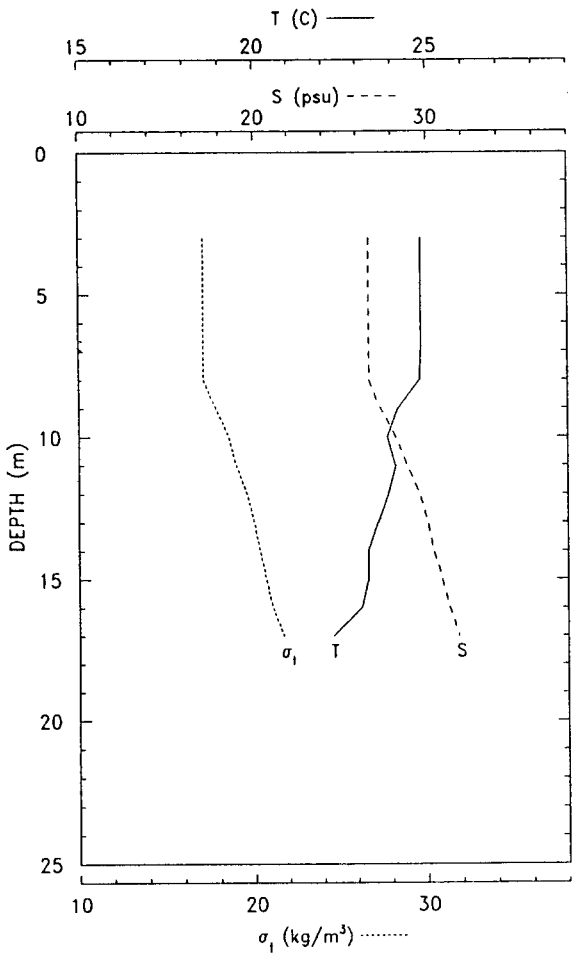


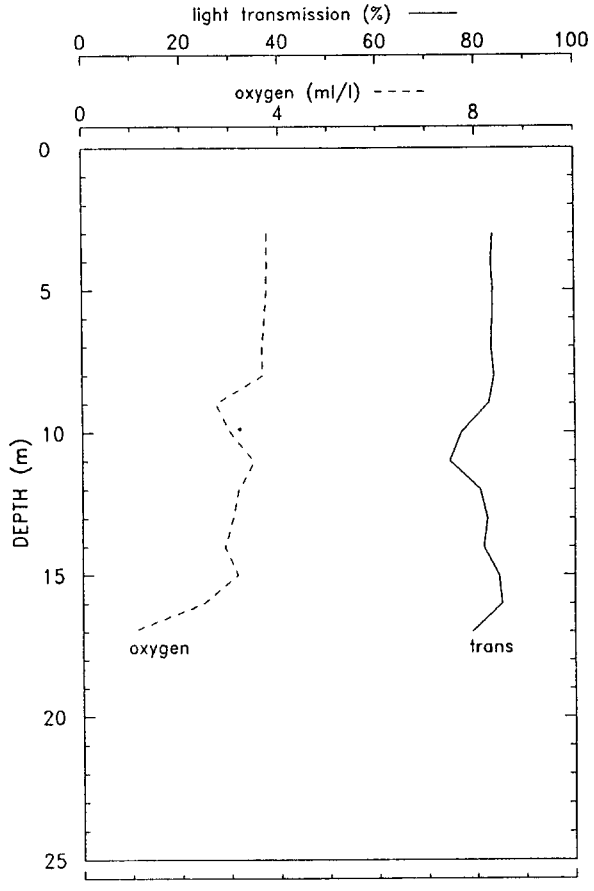
CAST 81

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	25.37	30.33	19.70	83.58	4.07
3.0	25.38	30.32	19.70	83.40	4.12
4.0	25.37	30.33	19.71	83.66	4.12
5.0	25.32	30.42	19.79	83.73	4.12
6.0	25.27	30.49	19.86	83.70	4.12
7.0	24.73	31.50	20.78	83.58	4.15
8.0	24.27	31.86	21.19	82.36	4.21
9.0	23.91	31.86	21.30	82.62	4.27
10.0	23.74	32.10	21.52	82.31	4.27
11.0	23.86	32.34	21.67	82.37	4.17
12.0	24.30	32.76	21.86	82.81	4.16
13.0	24.20	33.10	22.14	83.08	4.06
14.0	23.94	33.28	22.36	84.43	4.03
15.0	23.76	33.39	22.50	84.97	4.08
16.0	23.71	33.56	22.64	85.10	3.95
17.0	23.11	33.99	23.13	85.36	4.15
18.0	22.93	34.14	23.31	85.34	4.00
19.0	22.80	34.38	23.52	85.34	3.88
20.0	22.62	34.52	23.68	84.97	3.38

CAST 82

Position: 28 46.9 N, 95 00.6 W Time: 02:46 Z, 21 May 92 File: 9214202.cnv Depth: 19 m



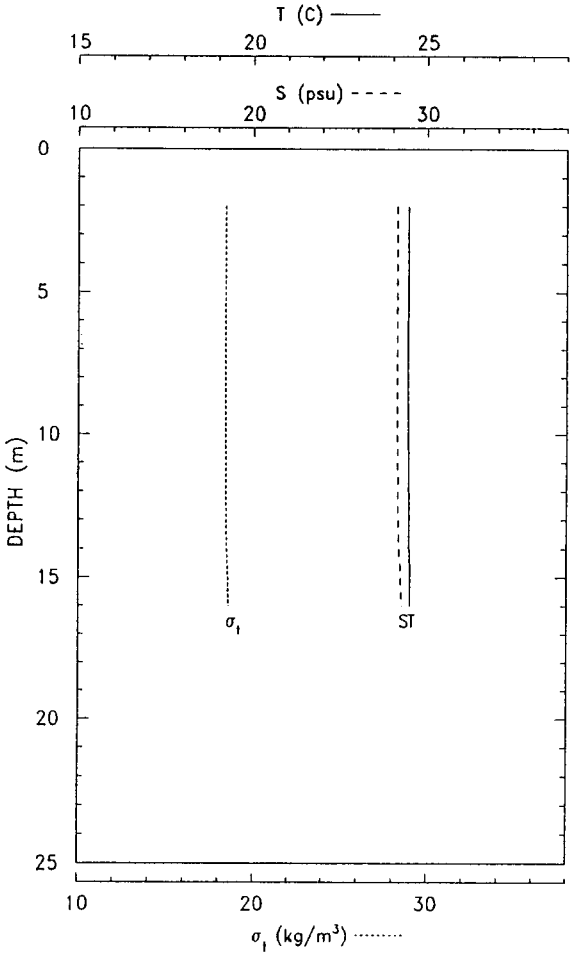


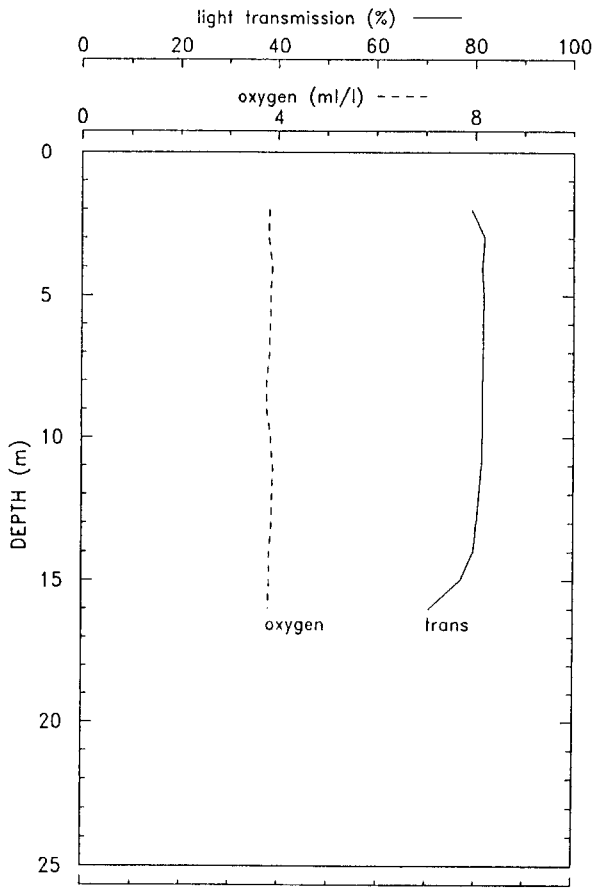
CAST 82

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.84	26.68	17.12	83.68	3.75
4.0	24.85	26.68	17.12	83.23	3.75
5.0	24.85	26.68	17.12	83.63	3.75
6.0	24.84	26.68	17.12	83.54	3.70
7.0	24.84	26.68	17.12	83.26	3.65
8.0	24.82	26.69	17.13	83.85	3.67
9.0	24.19	27.35	17.81	82.67	2.72
10.0	23.87	28.22	18.55	77.09	3.01
11.0	24.11	28.88	18.98	74.69	3.49
12.0	23.89	29.62	19.60	80.98	3.17
13.0	23.60	30.06	20.02	82.45	3.05
14.0	23.31	30.38	20.35	81.64	2.89
15.0	23.31	30.86	20.71	84.73	3.14
16.0	23.12	31.28	21.08	85.37	2.44
17.0	22.30	31.82	21.72	79.20	0.99

CAST 83

Position: 28 36.7 N, 95 30.7 W Time: 05:57 Z, 21 May 92 File: 9214204.cnv Depth: 18 m



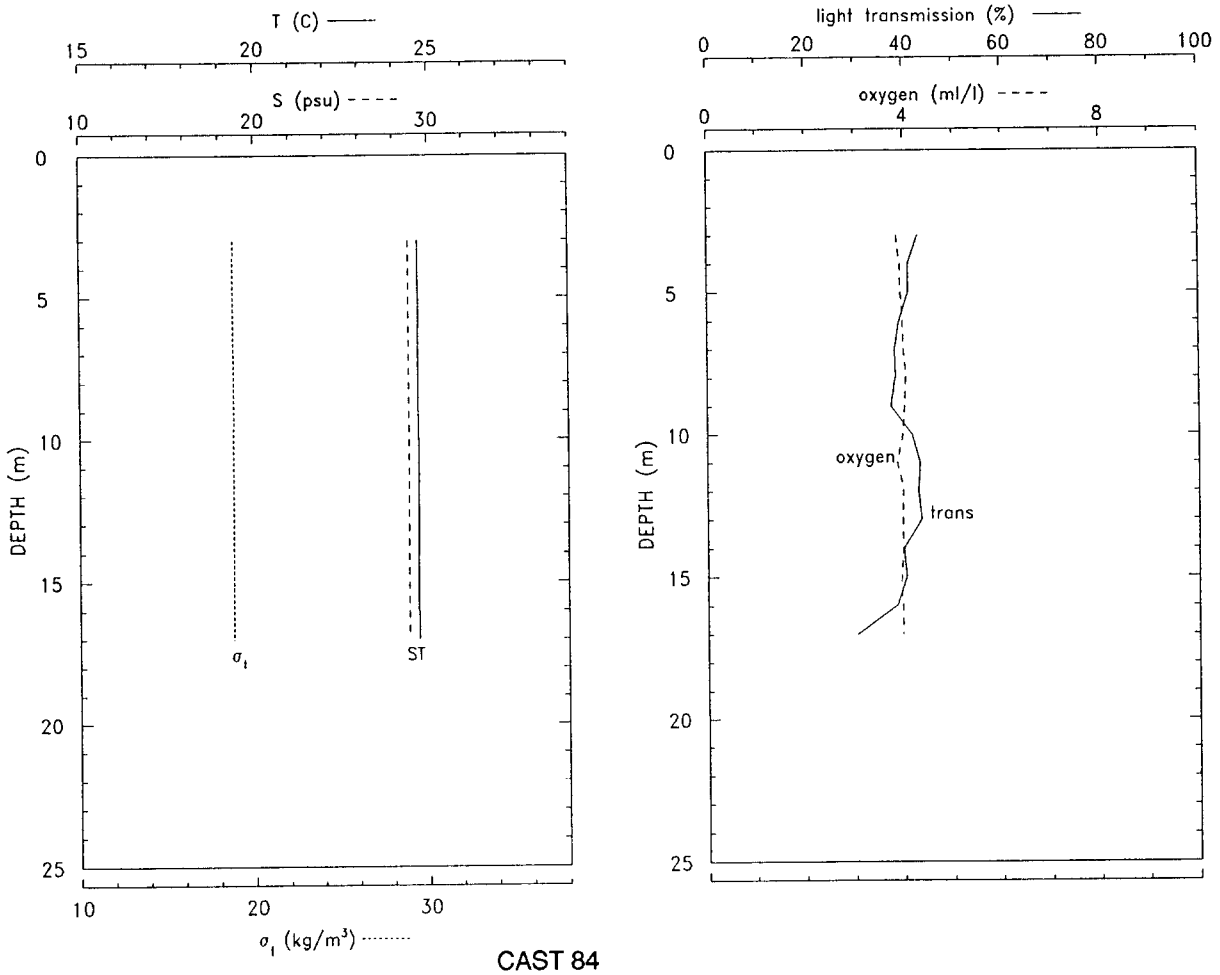


CAST 83

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.45	28.26	18.42	79.25	3.82
3.0	24.45	28.27	18.43	81.97	3.81
4.0	24.45	28.27	18.43	81.45	3.89
5.0	24.45	28.27	18.43	81.75	3.85
6.0	24.45	28.27	18.43	81.62	3.84
7.0	24.45	28.27	18.43	81.68	3.83
8.0	24.45	28.27	18.43	81.60	3.77
9.0	24.45	28.27	18.43	81.54	3.77
10.0	24.45	28.28	18.43	81.50	3.85
11.0	24.47	28.31	18.45	81.42	3.89
12.0	24.48	28.32	18.46	80.85	3.88
13.0	24.48	28.34	18.47	80.34	3.87
14.0	24.50	28.39	18.51	79.80	3.82
15.0	24.51	28.49	18.58	77.14	3.82
16.0	24.52	28.56	18.63	70.76	3.81

CAST 84

Position: 28 24.8 N, 96 00.3 W Time: 09:16 Z, 21 May 92 File: 9214206.cnv Depth: 18 m

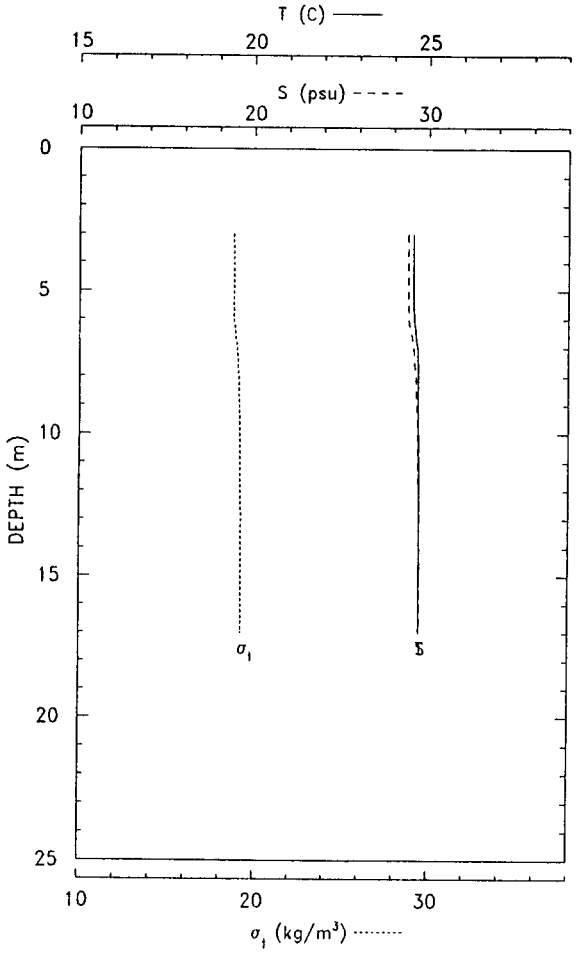


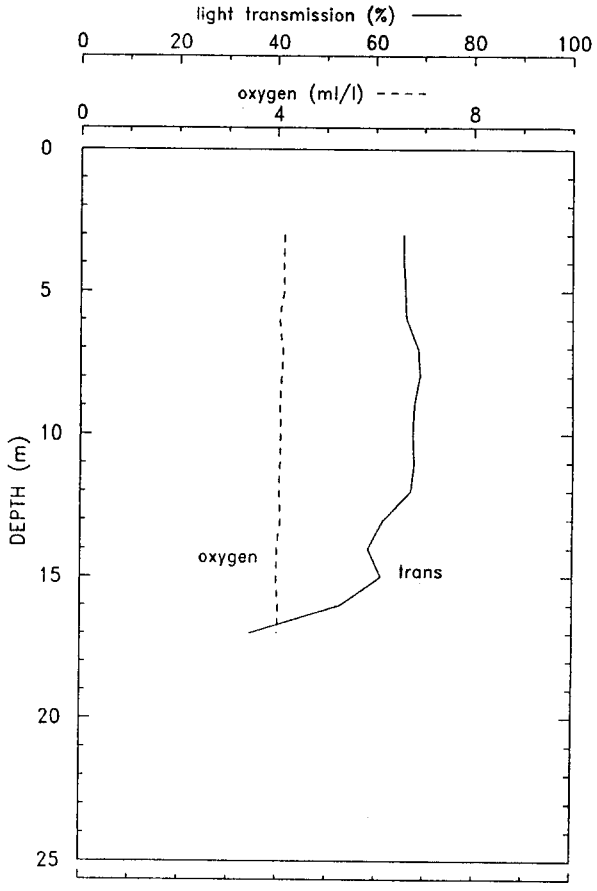
CAST 84

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.71	28.88	18.81	42.85	3.86
4.0	24.71	28.88	18.81	40.94	3.93
5.0	24.71	28.88	18.81	40.98	3.94
6.0	24.72	28.88	18.81	39.11	3.98
7.0	24.71	28.88	18.81	38.18	4.00
8.0	24.71	28.88	18.81	38.39	4.05
9.0	24.71	28.88	18.81	37.46	4.02
10.0	24.71	28.88	18.81	41.60	3.97
11.0	24.72	28.88	18.81	43.16	3.87
12.0	24.72	28.88	18.81	42.83	3.99
13.0	24.72	28.88	18.81	43.47	3.97
14.0	24.71	28.88	18.81	39.92	3.98
15.0	24.71	28.88	18.81	40.46	3.93
16.0	24.72	28.88	18.81	38.51	3.96
17.0	24.72	28.88	18.81	30.42	3.96

CAST 85

Position: 28 08.0 N, 96 30.3 W Time: 12:46 Z, 21 May 92 File: 9214208.cnv Depth: 20 m



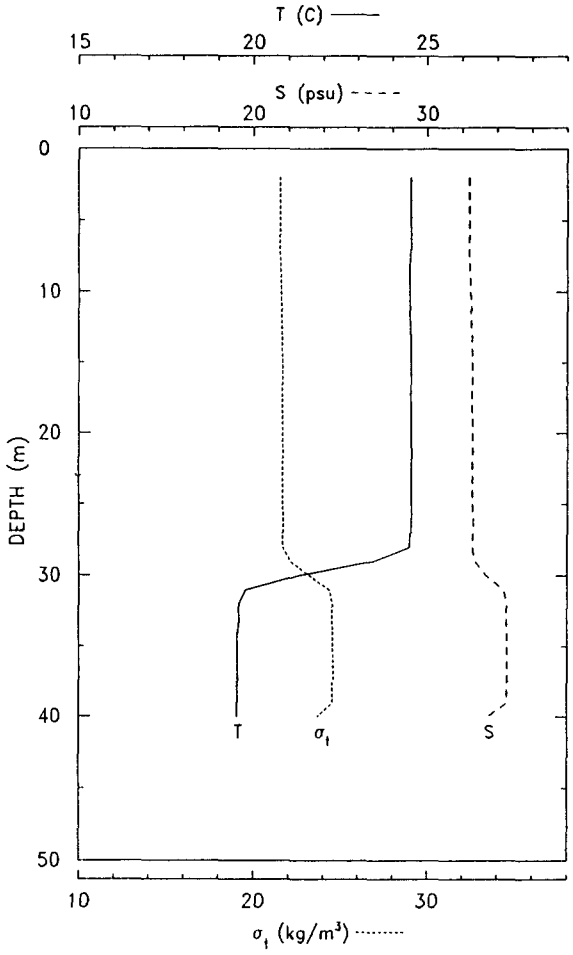


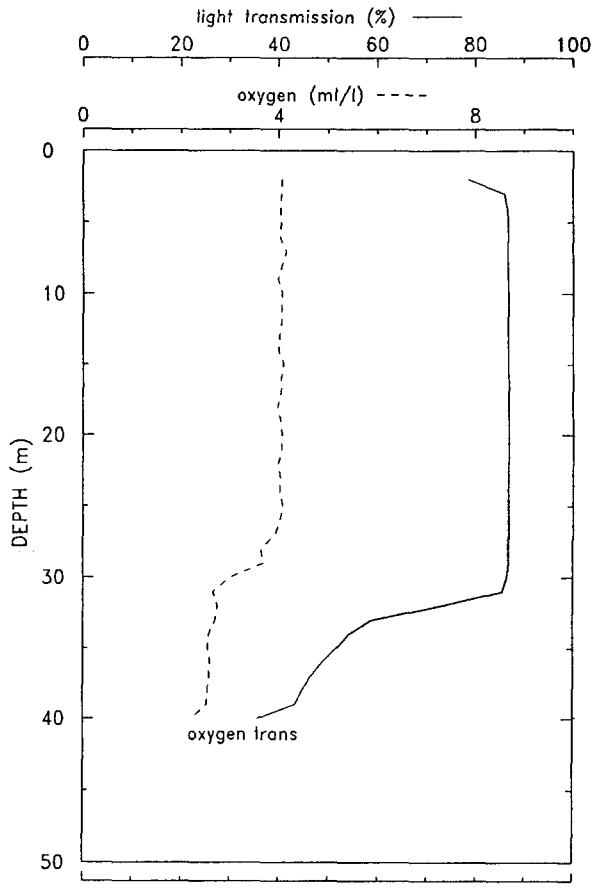
CAST 85

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
3.0	24.55	28.82	18.81	65.75	4.14
4.0	24.56	28.82	18.81	65.80	4.13
5.0	24.56	28.83	18.82	66.14	4.14
6.0	24.59	28.86	18.83	66.45	4.04
7.0	24.69	29.15	19.02	68.83	4.12
8.0	24.70	29.28	19.11	69.25	4.10
9.0	24.71	29.32	19.14	68.14	4.06
10.0	24.72	29.38	19.19	67.84	4.07
11.0	24.73	29.40	19.19	68.13	4.06
12.0	24.73	29.44	19.22	67.44	4.04
13.0	24.74	29.47	19.25	61.82	4.07
14.0	24.74	29.48	19.26	58.60	4.00
15.0	24.73	29.48	19.26	61.31	4.00
16.0	24.73	29.48	19.26	52.98	4.03
17.0	24.73	29.48	19.26	34.44	4.01

CAST 86

Position: 27 47.6 N, 96 31.9 W Time: 15:46 Z, 21 May 92 File: 9214210.cnv Depth: 40 m





CAST 86

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
2.0	24.54	32.40	21.52	78.70	4.07
3.0	24.55	32.40	21.52	86.01	4.06
4.0	24.54	32.41	21.52	86.54	4.04
5.0	24.54	32.40	21.52	86.67	4.06
6.0	24.54	32.40	21.52	86.67	4.02
7.0	24.54	32.41	21.52	86.71	4.16
8.0	24.51	32.43	21.55	86.70	4.08
9.0	24.50	32.45	21.56	86.79	3.99
10.0	24.50	32.45	21.57	86.79	4.07
11.0	24.51	32.51	21.61	86.74	4.06
12.0	24.52	32.54	21.63	86.76	4.07
13.0	24.53	32.56	21.64	86.80	4.02
14.0	24.53	32.56	21.64	86.83	4.00
15.0	24.54	32.57	21.64	86.76	4.11
16.0	24.54	32.57	21.65	86.82	4.05
17.0	24.54	32.57	21.65	86.83	4.06
18.0	24.54	32.57	21.65	86.84	3.98
19.0	24.54	32.57	21.65	86.84	4.05
20.0	24.54	32.57	21.65	86.84	4.07
21.0	24.54	32.58	21.65	86.87	4.06

Depth (m)	Temp (deg C)	Salinity (psu)	sigma-t (kg/m3)	Trans (%)	Oxygen (ml/l)
22.0	24.54	32.59	21.66	86.82	3.99
23.0	24.54	32.59	21.66	86.90	4.05
24.0	24.54	32.59	21.66	86.91	4.03
25.0	24.54	32.59	21.66	86.87	4.09
26.0	24.54	32.60	21.67	86.86	4.03
27.0	24.54	32.61	21.67	86.91	3.92
28.0	24.50	32.62	21.70	86.87	3.64
29.0	23.45	32.76	22.11	86.90	3.70
30.0	21.32	33.40	23.19	86.51	3.02
31.0	19.80	34.41	24.37	85.48	2.66
32.0	19.59	34.57	24.54	72.65	2.75
33.0	19.62	34.56	24.53	58.89	2.70
34.0	19.56	34.59	24.56	54.23	2.58
35.0	19.55	34.59	24.57	51.67	2.56
36.0	19.55	34.60	24.58	48.79	2.60
37.0	19.55	34.60	24.57	46.45	2.57
38.0	19.54	34.59	24.57	44.90	2.56
39.0	19.54	34.59	24.57	43.40	2.54
40.0	19.54	33.46	23.71	35.76	2.21

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