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CTD Observations in the
Coastal Transition Zone
Off Northern California
18-27 May 1987

by

Richard E. Schramm
Jane Fleischbein
Robert Marsh
Adriana Huyer
P. Michael Kosro
Tim Cowles
Nan Dudek

Data Report 141
Reference 88-3
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stations was 500 m. Temperature, salinity, light transmission and fluorescence were measured at all stations. This report presents vertical profile plots and tabulations of data at selected depths for each station; vertical sections of temperature, salinity, and potential density anomaly (sigma-theta) for the long alongshore sections; and maps of temperature, salinity, potential density anomaly, dynamic topography and fluorescence at selected depths.

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ABSTRACT

Wecoma cruise W8705A was conducted in May 1987 as part of the pilot study for the Coastal Transition Zone project. CTD observations were made in the coastal transition zone off northern California between 37.5°N and 41.5°N. Strong winds (with speeds up to 35 kts) prevailed during the survey, but 98 stations were completed successfully. They were concentrated along three alongshore transects, at distances of 60, 90 and 150 km from the coast. Maximum sampling depth at most stations was 500 m. Temperature, salinity, light transmission and fluorescence were measured at all stations. This report presents vertical profile plots and tabulations of data at selected depths for each station; vertical sections of temperature, salinity and potential density anomaly (σ - θ) for the long alongshore and cross-shore sections; and maps of temperature, salinity, potential density anomaly and dynamic topography at selected depths.

ACKNOWLEDGMENTS

We are grateful to all those who participated in this cruise, and particularly to the master, crew and the marine technicians of the R/V Wecoma for their expert work during the persistently rough weather on this cruise. Pat Collier assisted in the preparation of this report. This study is funded by the Office of Naval Research, contract number N00014-87-K-0242.

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INTRODUCTION

This was the second of three mapping cruises designed to determine the general character of the mesoscale flow field in the Coastal Transition Zone off northern California during the winter and late spring of 1987. All three cruises were intended to have the same basic sampling pattern (shown in Figure 1) covering an alongshore extent of about 450 km. The cruise track was designed to consist of three modular units (A,B, and C, south of Pt. St. George, Cape Mendocino and Pt. Arena, respectively), each of which would take about three days to complete, and thus provide a synoptic mesoscale survey of each unit. Each module included alongshore transects at about 90 and 150 km from shore, and cross-shore transects either (1) extending out 60 km from the coast or (2) connecting the alongshore transects. The combination of three modules yields two continuous alongshore sections (Lines I and II, 150 and 90 km from shore respectively) each about 450 km long, and a discontinuous alongshore transect about 60 km offshore. On each cruise, we planned to make closely spaced CTD casts to 500 m on the outer transects of the southern modules; it is in this region that seaward jets and narrow filaments of cold surface waters had been observed previously (Flament et al., 1985; Kosro and Huyer, 1986). On each cruise, we operated a 300 kHz acoustic-Doppler current profiler continuously and obtained continuous underway surface temperature and salinity data. Complementary biological observations were made on all three cruises by T. Cowles and L. Small of Oregon State University, R.T. Barber and F.A. Chavez of Duke University, and M. Abbott and R. Hood of Scripps Institution of Oceanography. Mark Abbott, Bob Whritner and Melissa Ciandro of the Scripps Satellite Facility provided transmission to the ship of sea surface temperature maps derived from the AVHRR sensor on the NOAA9 satellite. The CTD data from the February cruise have been presented in an

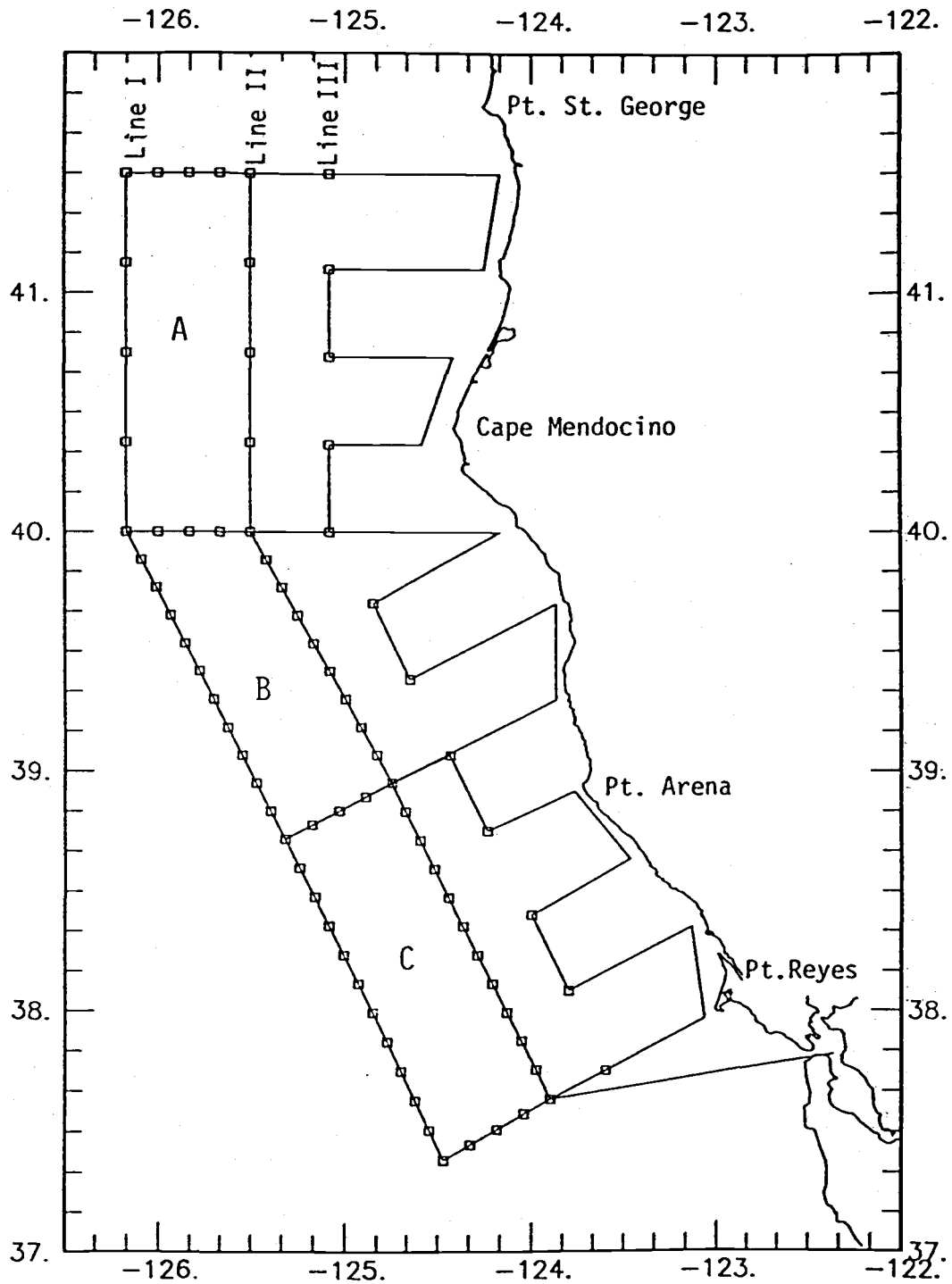


Figure 1. The basic sampling plan for the three CTZ mapping cruises in 1987. Actual sampling during each cruise varied from this pattern because of weather and other constraints.

earlier report (Schramm et al., 1987); this data report presents the CTD data from the May cruise.

The ship departed from San Francisco, California on the morning of 18 May 1987, and arrived at Station 1 at 37°38'N, 123°54'W on the south side of Module C (Figure 2) at 2300 UT. Winds were favorable for coastal upwelling and increasing in strength from about 10 to 25 kts at this time (Figure 3). We worked offshore to Station 5 (Figure 2, Table 1) and then turned to work northwestward along Line I (Figures 1, 2). During 19 May, winds increased in strength to more than 30 kts, and by the end of Station 15 (near the northwest corner of Module C; Figure 2) it was too rough to continue CTD operations. We proceeded northeastward to intersect Line II at about 39°N and Line III at 39°10'N. Since it was still too rough to run sections perpendicular to the coast, we turned southeastward along Line III. By first light on 20 May the wind had dropped sufficiently (to 28 kts) to resume CTD operations with Station 16 (Table 1), and we continued to work southeastward along Line III to Station 20 (Figure 2). From Station 21 (at the same location as Station 1) we worked northwestward along Line II to Station 32. Since wind speeds had dropped to less than 20 kts, we turned offshore to complete the perimeter of the offshore rectangle of Module C with Stations 33-36, and then backtracked toward the coast to begin Module B.

On 22 May, Stations 37-40 were occupied on the southern inshore sections of Module B. Since the strong winds had caused us to be behind schedule, we continued northward along Line III rather than making the inshore sections at the northern end of Module B. At Station 42, we turned offshore along 40°00'N and worked to Station 47 at the northwest corner of Module B, and then worked southeastward along Line I to Station 58 at the southwestern corner of Module B. We repeated two stations along its southern boundary, and

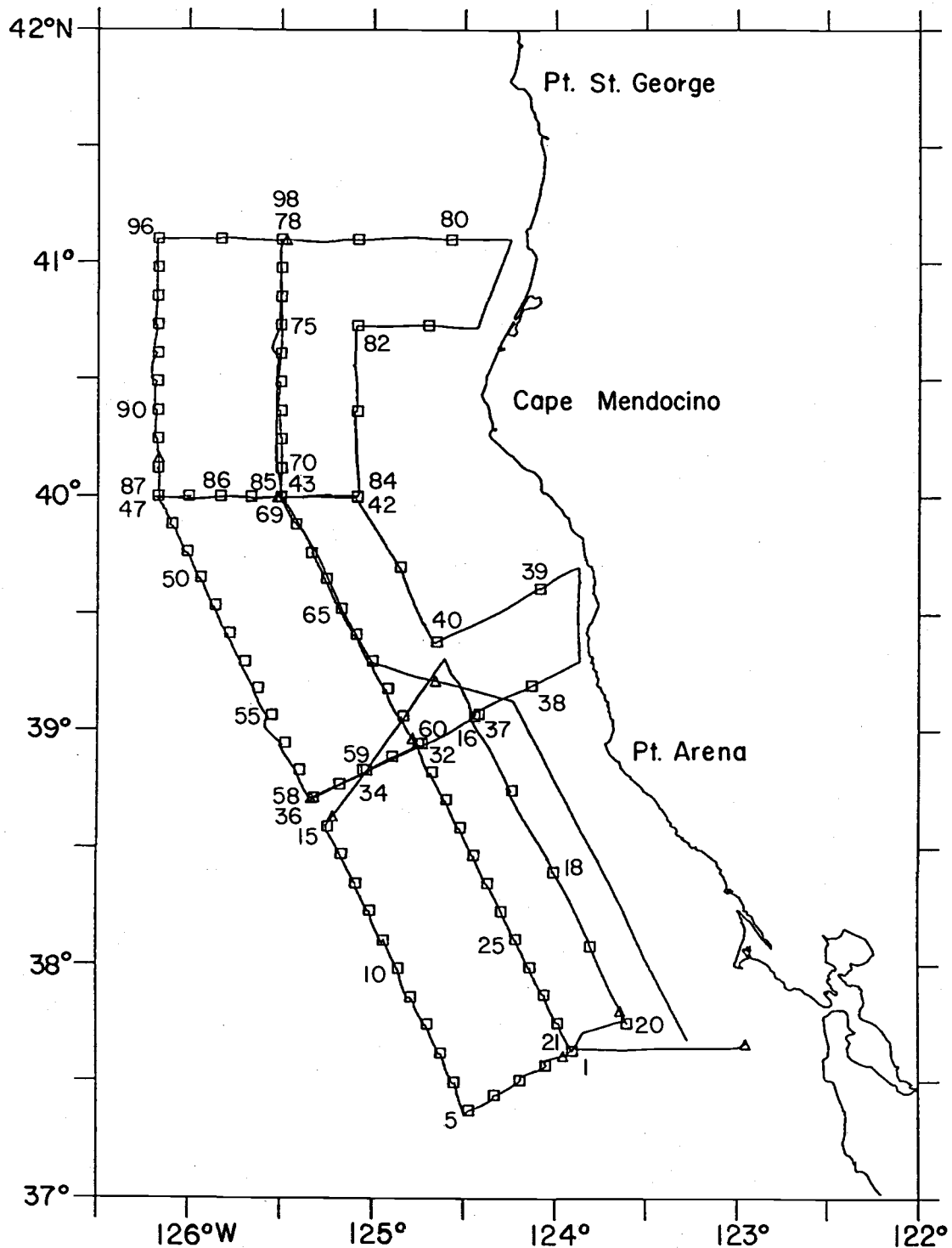


Figure 2. Ship's track during the second CTZ mapping cruise, W8705A, R/V Wecoma, 18-27 May 1987. Triangles indicate the start of each new day; squares indicate the position of CTD stations.

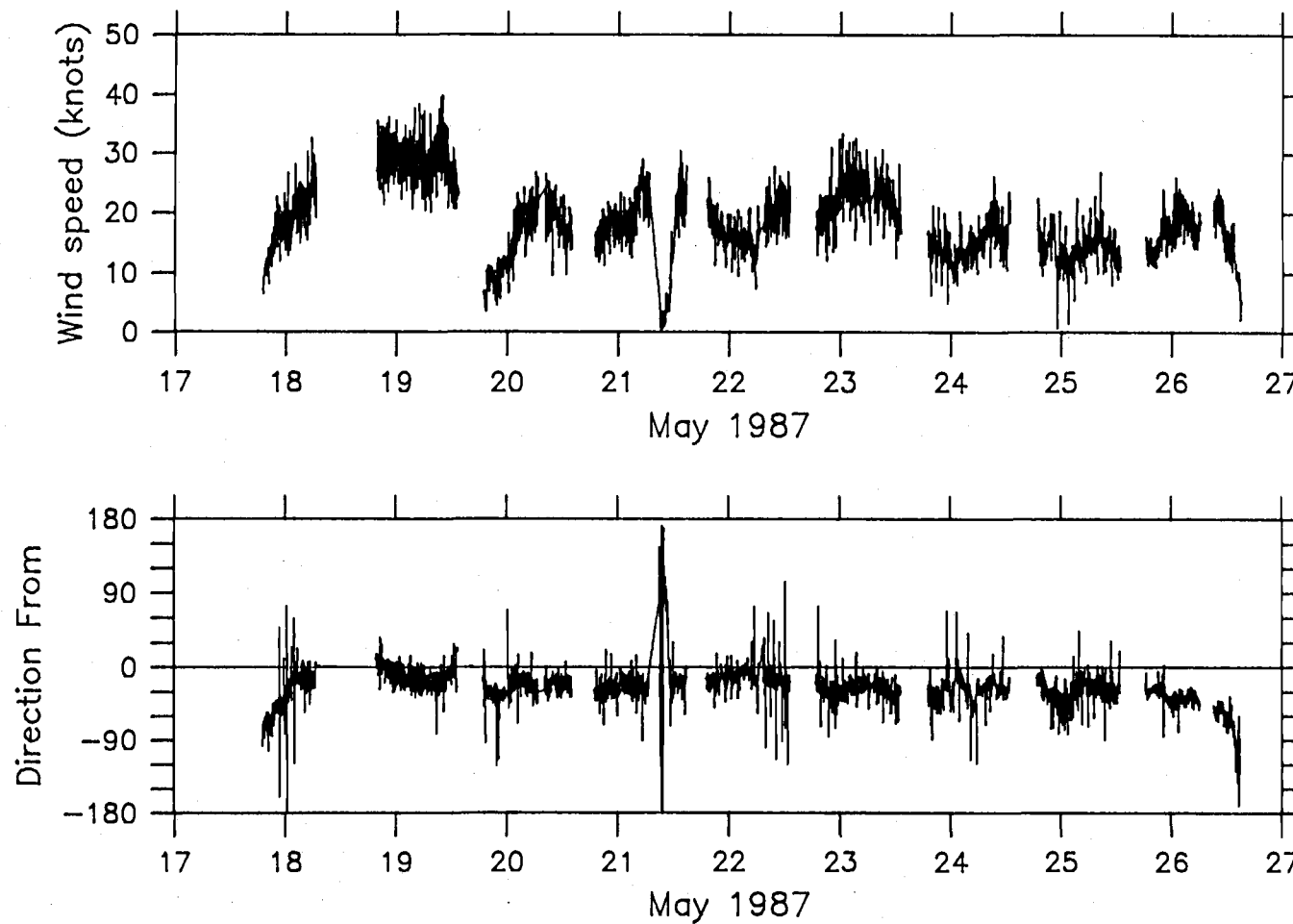


Figure 3. Speed and direction of the wind vectors recorded at two-minute intervals. Note the data gaps that occurred each day.

Table 1. List of CTD stations occupied during W8705A, showing date, time, location, weather and sea.state. All casts were made to 500 dbar and included measurements of light transmission and fluorescence as well as temperature, conductivity and pressure.

Date	Time (UT)	Stn No.	Latitude (N)	Longitude (W)	Depth (m)	Wind		Atmos. Press.	Swell			Air Temp	
						Dir	Spd		Dir	Ht	Per	Dry	Wet
18 May	2306	1	37 37.9	123 54.1	3477	315	22	1012.2	310	10	7		
19 May	0052	2	37 34.1	124 02.8	3594	320	18	1011.8	320	10	8		
	0217	3	37 30.4	124 11.2	3594	345	22	1012.0	320	10	8		
	0337	4	37 26.6	124 19.7	3926	350	25	1012.6	325	12	8		
	0500	5	37 22.7	124 28.2	4021	340	23	1013.4	325	12	8		
	0656	6	37 29.8	124 33.0	4040	350	27	1013.2	325	12	8		
	0834	7	37 37.3	124 37.4	4040	346	24	1013.1	325	12	8		
	1011	8	37 44.8	124 41.8	3874	010	30	1012.5	325	12	8		
	1149	9	37 51.8	124 47.2	3763	340	28	1012.2	330	12	10		
	1326	10	37 59.2	124 51.2	3758	355	27	1011.9	340	15	8		
	1514	11	38 06.3	124 56.1	3905	350	30	1012.9	340	14	8		
	1720	12	38 13.9	125 0.5	3900	350	30	1013.6	340	14	8		
	1900	13	38 21.0	125 5.0	4403	000	37	1014.4	340	14	8		
	2040	14	38 28.5	125 9.7	3736	000	30	1014.9	350	14	8		
	2239	15	38 35.6	125 14.3	3546	355	34	1014.6	350	14	8		
20 May	1256	16	39 03.8	124 26.4	3303	000	28	1011.8	340	14	8		
	1540	17	38 45.0	124 14.0	3298	350	24	--	330	14	8		
	1856	18	38 24.0	124 00.1	2742	346	08	1014.3	330	12	10		
	2155	19	38 4.9	123 48.0	3059	337	12	1014.1	330	12	10		
21 May	0029	20	37 45.1	123 36.0	2916	325	12	1013.4	320	12	8		
	0242	21	37 38.0	123 54.0	3481	350	20	1014.9	340	10	8	13.8	10.8
	0410	22	37 45.1	123 58.8	3492	340	18	1015.5	340	10	8		
	0537	23	37 52.4	124 03.2	3736	345	20	1016.4	340	10	8		
	0715	24	37 59.5	124 7.8	3736	320	20	1016.9	340	10	8	13.9	11.0
	0838	25	38 06.7	124 12.5	3736	345	20	1016.8	340	10	10	14.1	10.9
	1002	26	38 13.8	124 17.2	3717	347	22	1017.1	340	10	10	14.2	11.0
	1132	27	38 21.1	124 21.8	3853	350	18	1016.7	340	10	8	13.7	10.9
	1302	28	38 28.3	124 26.5	3596	345	18	1017.0	330	8	8	13.9	11.2
	1426	29	38 35.4	124 31.0	3616	345	18	1017.6	330	8	8	13.9	11.3
	1554	30	38 42.6	124 35.7	3629	345	15	1018.2	330	8	8		
	1737	31	38 49.6	124 40.4	3580	340	13	1019.3	330	8	8	15.2	12.4
	1913	32	38 56.9	124 45.0	3409	323	16	1021.2	330	8	8	15.1	12.0
	2017	33	38 53.5	124 53.5	3500	332	18	1021.2	330	8	8	15.1	12.1
	2115	34	38 50.1	125 02.9	3498	333	18	1021.2	330	8	8	15.8	12.5
	2226	35	38 46.4	125 10.4	3436	338	19	1021.2	330	8	8	15.8	12.4
	2332	36	38 43.0	125 19.0	3600	345	23	1021.1	330	8	8	15.0	12.2
22 May	0427	37	39 04.4	124 25.0	3286	345	24	1020.0	330	8	8		
	0707	38	39 11.8	124 7.6	905	353	20	1020.0	330	8	8	13.8	11.2
	1137	39	39 36.7	124 4.9	921	340	14	1019.0	330	8	8	13.0	10.7
	1447	40	39 23.0	124 39.0	2967	340	29	1020.5	330	10	7		
	1836	41	39 42.1	124 51.0	1856	345	18	1021.8	330	8	8	14.9	11.7
	2109	42	40 00.2	125 5.1	1574	345	16	1022.2	330	8	8	16.1	12.1
	2329	43	40 00.0	125 30.1	2957	345	16	1021.8	330	6	7	13.5	11.3
23 May	0051	44	40 00.0	125 40.0	3455	350	17	1022.0	330	6	7		
	0210	45	40 00.0	125 49.9	3664	350	16	1021.7	340	6	7	14.2	11.3
	0338	46	40 00.0	126 00.1	3780	345	17	1022.3	335	6	7	13.5	11.2
	0514	47	40 00.0	126 10.0	4066	350	15	1023.7	335	6	7		

Table 1. Cont'd.

Date	Time (UT)	Stn No.	Latitude		Longitude		Depth (m)	Wind		Atmos. Press.	Swell			Air Temp	
			(N)		(W)			Dir	Spd		Dir	Ht	Per	Dry	Wet
24 May	0631	48	39 52.9		126 05.4		3789	352	19	1023.1	335	6	7	14.3	11.9
	0739	49	39 45.9		126 00.5		3675	003	20	1022.8	335	6	7	14.5	11.2
	0848	50	39 39.3		125 56.2		3771	000	20	1022.0	335	6	7	14.5	11.5
	0958	51	39 32.1		125 51.5		3808	353	22	1021.4	335	6	7	14.6	11.5
	1107	52	39 25.0		125 46.8		3775	345	21	1021.1	340	6	7	13.8	10.9
	1225	53	39 17.9		125 41.9		3689	345	25	1020.8	340	6	7	13.9	10.8
	1337	54	39 11.0		125 37.4		3615	340	23	1021.1	340	6	6	13.0	10.8
	1501	55	39 04.0		125 32.9		3674	345	21	1021.1	340	6	7	15.0	11.7
	1648	56	38 56.9		125 28.4		3709	340	22	1021.4	340	8	7	13.5	11.0
	1814	57	38 50.0		125 23.6		3694	345	22	1021.4	340	8	7	14.4	11.2
	1928	58	38 43.1		125 18.9		3608	350	22	1021.8	340	8	7	16.7	12.1
	2116	59	38 50.0		125 01.9		3473	339	20	1021.2	340	8	8	16.3	12.5
	2316	60	38 56.8		124 43.8		3470	335	25	1020.0	345	8		15.7	11.7
	0048	61	39 03.9		124 50.0		3284	330	27	1019.5	340	8	7	15.2	12.0
	0215	62	39 10.9		124 55.0		3105	335	28	1019.2	340	9	8	14.5	11.4
	0339	63	39 18.0		125 00.0		3032	345	22	1019.5	340	8	7	13.3	11.1
	0518	64	39 24.9		125 05.2		3017	340	25	1020.4	340	9	8		
	0641	65	39 31.5		125 10.0		3300	332	26	1021.1	340	8	8	13.4	11.2
	0812	66	39 39.1		125 14.9		3205	344	26	1020.2	340	8	8	14.2	11.6
	0936	67	39 45.8		125 19.8		3300	345	22	1020.0	340	8	8	14.1	11.1
	1108	68	39 53.0		125 24.9		3040	320	23	1019.9	340	8	8	13.5	11.2
	1223	69	39 59.9		125 30.1		2995	325	25	1019.5	335	7	8	13.8	11.0
	1335	70	40 07.3		125 29.9		2464	335	18	1019.2	335	7	7	13.2	11.1
	1443	71	40 14.7		125 30.0		2240	345	18	1019.8	335	7	7	13.4	11.2
	1554	72	40 22.0		125 30.0		1639	340	17	1020.2	335	7	7	13.8	11.2
	1709	73	40 29.4		125 30.1		2823	335	17	1019.7	335	7	7	14.0	11.5
	1822	74	40 36.7		125 30.1		2860	325	15	1019.5	320	7	7	15.0	12.0
	1946	75	40 44.0		125 30.1		2859	325	18	1019.8	325	6	7	15.7	12.0
	2103	76	40 51.3		125 30.0		3013	315	14	1019.5	330	6	7	15.9	12.1
	2210	77	40 58.7		125 30.0		3065	330	13	1019.2	330	6	7	16.0	12.3
	2327	78	41 06.0		125 30.0		3093	355	16	1018.4	330	6	7	14.5	11.9
May 25	0133	79	41 06.0		125 05.0		2982	000	17	1017.5	340	6	7	14.5	12.0
	0401	80	41 06.0		124 34.6		906	335	15	1017.2	350	6	7	13.1	10.9
	0852	81	40 44.0		124 42.0		958	340	21	1016.5	350	6	7	14.1	11.3
	1059	82	40 43.9		125 05.1		2644	350	19	1016.3	350	6	7	13.8	11.5
	1317	83	40 21.9		125 05.1		1615	350	24	1016.5	330	8	7	13.0	10.6
	1539	84	40 00.0		125 05.1		1572	335	21	1017.2	340	7	7	12.8	11.2
	1759	85	40 00.0		125 30.0		2992	340	16	1017.2	340	8	7	13.5	11.6
	1958	86	40 00.0		125 49.9		3664	340	14	1018.2	340	8	7	15.1	11.6
	2202	87	40 00.0		126 09.9		4064	325	19	1018.2	340	8	7	15.9	12.6
	2312	88	40 07.2		126 10.0		4036	330	12	1017.6	010	8	7	16.0	13.0
May 26	0031	89	40 14.7		126 10.1		4026	320	16	1017.2	010	8	7	14.8	12.3
	0142	90	40 22.0		126 10.1		2880	320	12	1016.7	310	8	7	15.8	13.4
	0253	91	40 29.4		126 10.2		3092	325	11	1016.6	340	8	7	13.6	12.2
	0415	92	40 36.6		126 10.1		3118	340	15	1016.7	340	8	7	13.0	11.6
	0526	93	40 44.0		126 10.1		3120	340	20	1016.8	340	8	7	14.0	11.9
	0653	94	40 51.3		126 10.1		3112	335	13	1017.1	340	8	7	14.1	12.0
	0803	95	40 58.7		126 10.0		3098	342	18	1017.0	340	6	7	14.4	12.0
	0914	96	41 06.0		126 10.0		3065	350	14	1016.9	340	6	7	14.0	11.9
	1105	97	41 06.0		125 49.9		3091	345	14	1015.9	340	6	7	13.9	11.9
	1258	98	41 06.0		125 30.0		3091	340	14	1015.7	340	6	7	13.9	12.0

then worked northwestward along Line II to complete Module B with Station 69 on 24 May.

We began work in Module C by continuing northward along Line II on 24 May. Preliminary CTD and ADCP data from Module B had indicated a strong, narrow current flowing onshore across Lines I and II just south of 40°N . We suspected there might be another strong narrow current flowing offshore in the southern portion of Module A, and therefore continued the close (14 km) spacing between CTD stations. Since brisk winds and rough seas were still prevalent, we decided to truncate Module A at $41^{\circ}06'\text{N}$ (well after crossing the expected offshore-flowing jet), rather than continuing northward to $41^{\circ}30'\text{N}$ as originally planned. In the expectation that we would again see the jet as a southward current, we turned toward shore, following station 78. We completed two inshore sections in Module A, and then proceeded southward along Line III, occupying Stations 82-84. A few stations along $40^{\circ}00'\text{N}$ were repeated and another closely-spaced alongshore section was completed along Line I. This section, too, showed a strong narrow current flowing offshore on the north side of the Mendocino Ridge. Stations 96-98 closed the offshore rectangle of Module A, and CTD operations were suspended at about 1300 UT on 26 May. To obtain additional ADCP and surface temperature and salinity data across the pair of jets near 40°N , we proceeded southward along Line II to $39^{\circ}10'\text{N}$. We then turned inshore to collect underway data along a line about 12 nm inshore of Line III in order to partially fill the gap left in Module C. The ship returned to San Francisco at about 1600 UT on 27 May.

Personnel participating in the cruise were Michael Kosro (chief scientist), Adriana Huyer, Tim Cowles, Rich Schramm, Jane Fleischbein, Henry Pittock, Pat Collier, Ted Benson, Nan Dudek and Kevin Krefft of Oregon State University; Francisco Chavez and Patrick Whaling of Duke University; Robert

Petty of UC Santa Barbara; and Raleigh Hood and Victoria Cowles of Scripps Institution of Oceanography.

SAMPLING AND CALIBRATION PROCEDURES

A Neil Brown Instruments Mark IIIb conductivity-temperature depth (CTD) probe (#2561) was used to obtain continuous profiles of temperature and salinity and pressure at each station. The profiling package consisted of the CTD mounted below a General Oceanics Rosette sampler with twelve 5 liter Niskin bottles. Mounted adjacent to the CTD were a Sea Tech 25 cm transmissometer (s/n 33D) and a Sea Tech Fluorometer (s/n 27). The CTD was fitted with a 1600 decibar pressure sensor. The fast response thermistor was disabled and replaced in the circuitry with a precision 10 ohm resistor to permit only the platinum thermometer's temperature signal to be digitized. The time constant of the platinum resistance thermometer of the probe had earlier been determined to be 0.235 sec (Fleischbein et al., 1987) using estimates of the slope of the phase spectrum between the measured temperature and conductivity as suggested by Millard, Toole and Swartz (1980). The CTD was set to sample at its maximum rate of 32 Hz. The entire instrument package was lowered at a rate of about 45 meters per minute to a depth of 500 decibars.

OSU's CTD probe #2561 was calibrated for pressure, temperature and conductivity by the manufacturer in December 1986. Previous experience has indicated that the CTD pressure and temperature sensors are very stable over a period of several months: temperature to within a few millidegrees and pressure to within a few decibars. At a few stations, protected reversing thermometers were mounted on one bottle; these thermometers are calibrated once every three years at the Northwest Regional Calibration Center and have

an accuracy of $\pm 0.02^{\circ}\text{C}$. The temperatures recorded by these thermometers were the same as the CTD temperature within the stated accuracy of the reversing thermometers. The CTD temperature sensor was calibrated in the laboratory at OSU in August 1987; results of that calibration (mean difference less than 0.001°C from the standard) confirmed that no correction was needed. The CTD pressure at the surface prior to a cast was recorded at regular intervals during the cruise; it always remained less than 0.5 dbar which is within the stated accuracy of the pressure sensor (± 1.6 dbar) so no correction was applied to the CTD pressure data.

The CTD conductivity calibration can vary considerably with time, even over a few weeks or months. Normally the conductivity calibration is expressed as a multiplier to the raw conductivity; if the overall conductivity range is very small (as in the upper 500 m off northern California) an additive correction may be used instead. No CTD conductivity correction was required for the February cruise (Schramm et al, 1987), but the conductivity cell used in February failed on a subsequent cruise and was replaced prior to W8705A. The replacement cell had not been used or calibrated in several years. We collected water samples at each station from Niskin bottles at selected depths to provide in situ conductivity calibration data. Bottles were tripped during the up-cast, and the CTD data to be compared with the samples were recorded at the actual depth at which each bottle was tripped. Duplicate salinity samples were drawn from selected bottles and stored in round 4-oz. glass bottles with new poly-seal caps, with an additional outer seal of 'Parafilm'. One complete set of the salinity samples was analyzed on a Guildline 8400A Autosol salinometer (OSU's #3) after the ship returned to Newport (i.e., during late June and July 1987). Duplicates were analyzed mainly to check those sample values which showed

relatively large differences from the CTD. The Guildline Autosol determines water sample salinity with a precision of ± 0.002 and an accuracy of ± 0.003 . Sample conductivities were calculated using the sample salinity value with the CTD temperature and pressure values; a value of $42.914 \text{ mmho cm}^{-1}$ for the conductivity of standard seawater at 15°C (Culkin and Smith, 1980) was used to convert the measured sample conductivity ratios to conductivity. Sample conductivities were compared to CTD conductivities which had been corrected for temperature and pressure effects on the cell. Ten out of 210 CTD-sample differences were much larger than the others, as large as several standard deviations; these occurred in regions of sharp vertical gradients and were eliminated from the in situ calibration data set. The remaining sample conductivity values indicate there was a definite trend in the CTD calibration during the first half of the cruise, with conductivity differences gradually decreasing from about $0.014 \text{ mmho cm}^{-2}$ at the first station to about $0.004 \text{ mmho cm}^{-2}$ at Station 49. During the last half of the cruise, the calibration remained steady. Thus the data from the cruise was divided into two parts to determine the appropriate CTD conductivity correction: Stations 1-49, and Stations 50-98. A least-squares fit to the conductivity differences from the first group yielded the equation:

$$C = C_0 - 0.0131 + 0.000194 N$$

where C is the corrected conductivity, C_0 is the raw conductivity data, and N is the consecutive station number (between 1 and 49). Applying this correction resulted in small conductivity differences (Table 2) with a mean of zero and a standard deviation of $0.0024 \text{ mmho cm}^{-2}$. There was no definite trend during the second half of the cruise; the mean conductivity difference for Stations 50-98 was 0.0028 and the standard deviation was $0.003 \text{ mmho cm}^{-2}$.

Table 2. Results of in situ calibration samples, W8705A Stations 1-49: station number, sample depth (Z), additive conductivity correction for CTD data (DLC), and the comparison between sample and corrected CTD values of temperature (T), conductivity (C) and salinity (S).

STA	Z	DLC	Sample Values		CTD Values			Differences	
			S	C	T	C	S	DC	DS
1	4	-0.0129	33.303	38.633	12.410	38.635	33.305	-0.002	-0.002
1	14	-0.0129	33.305	38.640	12.411	38.642	33.307	-0.002	-0.002
1	24	-0.0129	33.312	38.573	12.326	38.576	33.314	-0.003	-0.002
1	69	-0.0129	33.533	35.767	8.993	35.765	33.531	0.002	0.002
1	389	-0.0129	34.140	33.966	6.211	33.967	34.142	-0.001	-0.002
1	497	-0.0129	34.185	33.371	5.447	33.373	34.188	-0.003	-0.003
2	10	-0.0127	33.370	38.428	12.110	38.432	33.374	-0.004	-0.004
2	412	-0.0127	34.112	33.670	5.897	33.672	34.115	-0.002	-0.003
3	205	-0.0125	34.020	35.020	7.593	35.020	34.021	-0.001	-0.001
3	308	-0.0125	34.045	34.290	6.708	34.287	34.042	0.003	0.003
3	499	-0.0125	34.167	33.391	5.486	33.394	34.171	-0.003	-0.004
4	10	-0.0123	33.310	38.634	12.401	38.636	33.312	-0.002	-0.002
5	5	-0.0121	32.917	37.352	11.445	37.352	32.917	0.000	0.000
5	408	-0.0121	34.141	33.929	6.160	33.923	34.134	0.006	0.007
6	3	-0.0119	32.840	37.807	12.034	37.807	32.840	0.000	0.000
6	410	-0.0119	34.133	34.072	6.326	34.065	34.126	0.007	0.007
7	10	-0.0117	32.782	37.776	12.062	37.775	32.781	0.001	0.001
7	32	-0.0117	32.781	37.785	12.063	37.785	32.781	0.000	0.000
7	504	-0.0117	34.147	33.535	5.665	33.535	34.147	0.000	0.000
8	4	-0.0115	32.814	37.638	11.877	37.629	32.805	0.009	0.009
9	6	-0.0114	32.673	38.128	12.576	38.129	32.674	-0.001	-0.001
9	307	-0.0114	34.071	35.366	7.873	35.367	34.073	-0.002	-0.002
10	10	-0.0112	32.699	38.127	12.543	38.129	32.702	-0.003	-0.003
10	145	-0.0112	33.731	37.099	10.207	37.104	33.736	-0.005	-0.005
10	285	-0.0112	34.054	35.427	7.969	35.425	34.051	0.003	0.003
10	504	-0.0112	34.135	33.754	5.923	33.755	34.136	-0.001	-0.001
11	25	-0.0110	32.664	38.333	12.803	38.334	32.664	0.000	0.000
12	3	-0.0108	32.677	38.722	13.224	38.724	32.679	-0.002	-0.002
13	5	-0.0106	32.693	38.647	13.123	38.648	32.693	0.000	0.000
13	50	-0.0106	32.693	38.654	13.109	38.655	32.694	-0.001	-0.001
13	498	-0.0106	34.153	33.619	5.757	33.619	34.152	0.001	0.001
14	5	-0.0104	32.707	38.801	13.275	38.802	32.708	-0.001	-0.001
14	25	-0.0104	32.706	38.796	13.261	38.797	32.707	-0.001	-0.001
15	5	-0.0102	32.738	38.932	13.382	38.934	32.740	-0.002	-0.002
15	297	-0.0102	34.078	35.317	7.817	35.320	34.081	-0.003	-0.003
16	11	-0.0100	33.023	37.103	11.050	37.100	33.020	0.003	0.003
16	410	-0.0100	34.090	33.645	5.892	33.640	34.084	0.005	0.006
17	11	-0.0098	32.993	37.742	11.786	37.745	32.996	-0.003	-0.003
17	418	-0.0098	34.099	33.389	5.592	33.391	34.101	-0.002	-0.002
18	3	-0.0096	32.895	37.522	11.658	37.526	32.899	-0.004	-0.004
20	401	-0.0092	34.173	33.996	6.206	33.996	34.173	0.000	0.000
21	3	-0.0090	33.310	38.375	12.123	38.374	33.309	0.001	0.001
21	502	-0.0090	34.185	33.297	5.362	33.297	34.185	0.000	0.000
22	3	-0.0088	33.467	38.373	11.946	38.374	33.468	-0.001	-0.001
22	295	-0.0088	34.109	34.649	7.048	34.648	34.108	0.001	0.001
23	2	-0.0086	33.442	38.689	12.316	38.688	33.441	0.001	0.001
24	20	-0.0084	33.525	37.833	11.289	37.831	33.523	0.002	0.002
24	330	-0.0084	34.077	34.171	6.532	34.172	34.078	-0.001	-0.001
25	3	-0.0082	33.103	38.031	11.982	38.027	33.098	0.005	0.005

Table 2 (Cont'd).

STA	Z	DLC	Sample Values		CTD Values			Differences	
			S	C	T	C	S	DC	DS
25	491	-0.0082	34.148	33.167	5.257	33.166	34.147	0.001	0.001
26	3	-0.0080	32.868	37.925	12.131	37.921	32.864	0.004	0.004
26	368	-0.0080	34.044	33.768	6.096	33.767	34.043	0.001	0.001
27	36	-0.0079	32.980	37.049	11.026	37.047	32.978	0.002	0.002
27	205	-0.0079	34.003	34.993	7.581	34.995	34.005	-0.002	-0.002
28	10	-0.0077	32.991	37.858	11.915	37.858	32.991	0.000	0.000
28	233	-0.0077	33.976	34.615	7.176	34.611	33.972	0.004	0.004
28	365	-0.0077	34.059	33.723	6.032	33.722	34.059	0.000	0.000
29	2	-0.0075	32.903	37.676	11.819	37.676	32.903	0.000	0.000
29	26	-0.0075	33.016	37.258	11.221	37.259	33.017	-0.001	-0.001
29	311	-0.0075	34.060	34.203	6.594	34.204	34.061	-0.001	-0.001
30	301	-0.0073	34.054	34.233	6.639	34.234	34.054	0.000	0.000
31	47	-0.0071	32.863	37.443	11.586	37.441	32.861	0.002	0.002
31	152	-0.0071	33.827	35.597	8.456	35.598	33.827	0.000	0.000
31	429	-0.0071	34.099	33.486	5.695	33.488	34.102	-0.002	-0.003
32	4	-0.0069	32.786	38.456	12.806	38.453	32.783	0.003	0.003
32	467	-0.0069	34.118	33.319	5.470	33.320	34.119	-0.001	-0.001
33	3	-0.0067	32.719	38.408	12.832	38.407	32.718	0.001	0.001
34	15	-0.0065	32.611	38.463	13.011	38.462	32.610	0.001	0.001
34	427	-0.0065	34.076	33.555	5.796	33.555	34.076	0.000	0.000
35	340	-0.0063	34.019	34.439	6.884	34.440	34.020	-0.001	-0.001
36	3	-0.0061	32.672	38.626	13.125	38.623	32.669	0.003	0.003
36	400	-0.0061	34.104	34.234	6.541	34.237	34.107	-0.003	-0.003
37	253	-0.0059	34.013	34.526	7.029	34.526	34.014	0.000	-0.001
37	502	-0.0059	34.134	33.066	5.152	33.062	34.130	0.004	0.004
38	3	-0.0057	32.759	37.865	12.190	37.864	32.758	0.001	0.001
39	3	-0.0055	32.906	37.389	11.499	37.387	32.905	0.001	0.001
39	310	-0.0055	34.016	34.003	6.416	34.005	34.017	-0.001	-0.001
39	470	-0.0055	34.119	33.427	5.589	33.427	34.118	0.001	0.000
40	40	-0.0053	32.766	37.373	11.622	37.372	32.765	0.001	0.001
40	339	-0.0053	34.053	34.137	6.514	34.138	34.054	-0.001	-0.001
41	293	-0.0051	34.020	34.028	6.448	34.029	34.021	-0.001	-0.001
42	31	-0.0049	33.033	37.246	11.186	37.246	33.033	0.000	0.000
42	244	-0.0049	34.013	34.208	6.680	34.209	34.014	-0.001	-0.001
43	220	-0.0047	34.003	34.238	6.735	34.239	34.005	-0.002	-0.002
43	301	-0.0047	34.044	33.698	6.051	33.697	34.043	0.001	0.001
43	442	-0.0047	34.128	33.153	5.285	33.154	34.129	-0.001	-0.001
43	504	-0.0047	34.179	32.960	4.987	32.960	34.179	0.000	0.000
44	54	-0.0046	33.465	36.114	9.456	36.119	33.470	-0.005	-0.005
44	215	-0.0046	33.984	34.400	6.938	34.403	33.987	-0.003	-0.003
44	485	-0.0046	34.158	33.089	5.163	33.090	34.159	0.000	-0.001
45	3	-0.0044	33.138	36.999	10.812	36.999	33.137	0.001	0.001
45	231	-0.0044	34.010	34.334	6.830	34.337	34.013	-0.003	-0.003
45	490	-0.0044	34.160	32.984	5.040	32.985	34.161	-0.001	-0.001
46	293	-0.0042	33.970	33.595	6.013	33.596	33.971	-0.001	-0.001
46	464	-0.0042	34.101	32.837	4.945	32.831	34.094	0.006	0.007
47	347	-0.0040	34.019	33.444	5.768	33.445	34.020	-0.001	-0.001
48	3	-0.0038	32.763	38.862	13.277	38.863	32.764	-0.001	-0.001
48	225	-0.0038	33.952	34.469	7.042	34.469	33.952	0.000	0.000
48	375	-0.0038	34.010	33.205	5.494	33.205	34.011	0.000	-0.001
49	3	-0.0036	32.754	38.742	13.157	38.745	32.756	-0.002	-0.002

Thus for these stations the CTD conductivity was corrected according to the equation :

$$C = C_0 - 0.0028$$

where C is the corrected conductivity and C_0 is the raw conductivity.

Applying this correction resulted in differences with a mean of zero and a standard deviation of $0.0026 \text{ mmho cm}^{-2}$ (Table 3).

The transmissometer measures the light transmitted by a collimated beam of nearly monochromatic (660 nm) light through a path length of 25 cm. It provides an analog output of 0 to 5 VDC, corresponding to 0 to 100 % transmission. This output is digitized by the CTD using the full integer range of 0 to 4095, and merged into the data stream. Prior to the cruise, the manufacturer calibrated the transmissometer against a distilled water standard. Readings in air were also obtained at this time for comparison with readings in air obtained during the cruise. The results are used to correct the measured voltage using the formula:

$$\text{VOLTS} = (\text{AIROLD} / \text{AIRNEW}) * (\text{TVOLT} - \text{ZERO})$$

where VOLTS is the corrected voltage, AIROLD is the voltage output in air obtained during the precalibration (4.741 V in this case), AIRNEW is the voltage output obtained in air during the cruise (4.738 V in this case), TVOLT is the measured voltage output, and ZERO is the voltage output when the light path is completely blocked (0.0007 V in this case). The formula

$$\text{TRANS} = (\text{VOLTS} / 5) * 100.$$

was used to convert the corrected voltage to percent transmission.

The fluorometer measures the fluorescence emitted by photosynthetic pigments (chlorophyll and related pigments) in marine phytoplankton following excitation with blue light from a xenon flashlamp. The fluorometer provides analog output of 0 to 5 VDC, with adjustable sensitivity ranges and integration time constants. The fluorometer was operated at a mid-range

Table 3. Results of in situ calibration samples from W8705A Stations 50-98: comparison between sample and corrected CTD values of temperature (T), conductivity (C), and salinity (S). CTD values have been corrected by subtracting 0.0028 mmho cm⁻² from the raw conductivity data.

STA	Z	Sample Values		CTD Values			Difference	
		S	C	T	C	S	DC	DS
50	29	32.766	38.785	13.177	38.781	32.762	0.004	0.004
50	467	34.169	33.863	6.029	33.863	34.169	0.000	0.000
51	30	32.757	38.697	13.091	38.696	32.756	0.001	0.001
51	473	34.131	33.652	5.828	33.653	34.132	-0.001	-0.001
52	4	32.772	38.747	13.141	38.747	32.771	0.001	0.001
52	65	32.766	38.704	13.072	38.705	32.767	-0.001	-0.001
52	245	34.022	35.514	8.117	35.519	34.027	-0.005	-0.005
52	461	34.161	34.065	6.265	34.063	34.160	0.001	0.001
52	460	34.160	34.070	6.272	34.070	34.161	-0.001	-0.001
53	28	32.787	38.789	13.158	38.790	32.788	-0.001	-0.001
53	280	34.045	35.205	7.736	35.205	34.045	0.000	0.000
54	2	32.736	38.463	12.873	38.467	32.739	-0.004	-0.003
54	59	32.737	38.465	12.847	38.471	32.743	-0.006	-0.006
54	250	34.027	35.437	8.025	35.440	34.030	-0.002	-0.003
54	473	34.169	33.920	6.090	33.922	34.171	-0.002	-0.002
55	20	32.706	38.223	12.636	38.226	32.709	-0.003	-0.003
55	494	34.180	33.835	5.974	33.837	34.182	-0.002	-0.002
56	30	32.712	38.099	12.488	38.097	32.710	0.002	0.002
57	3	32.648	38.537	13.055	38.535	32.646	0.002	0.002
57	343	34.062	34.422	6.820	34.422	34.062	0.000	0.000
58	2	32.640	38.511	13.036	38.513	32.642	-0.002	-0.002
58	465	34.076	33.386	5.588	33.385	34.075	0.001	0.001
59	3	32.695	38.772	13.258	38.766	32.689	0.007	0.006
59	425	34.086	33.540	5.770	33.542	34.089	-0.003	-0.003
60	28	32.982	37.420	11.436	37.420	32.982	0.000	0.000
60	225	33.985	34.794	7.369	34.795	33.986	-0.001	-0.001
61	3	32.757	37.626	11.929	37.625	32.756	0.001	0.001
61	211	33.983	35.051	7.663	35.055	33.987	-0.004	-0.004
62	3	32.741	37.926	12.277	37.923	32.738	0.003	0.003
62	260	33.997	34.594	7.118	34.592	33.995	0.002	0.002
62	448	34.085	33.342	5.538	33.344	34.088	-0.002	-0.003
63	9	32.656	38.059	12.518	38.060	32.657	-0.001	-0.001
63	377	34.039	33.593	5.900	33.594	34.041	-0.002	-0.002
64	2	32.700	38.485	12.939	38.488	32.702	-0.002	-0.002
64	296	33.968	33.992	6.459	33.996	33.972	-0.004	-0.004
65	9	32.651	38.332	12.824	38.331	32.650	0.001	0.001
65	497	34.148	33.169	5.257	33.171	34.149	-0.001	-0.001
66	440	34.122	33.296	5.453	33.293	34.120	0.002	0.002
67	28	32.743	38.778	13.197	38.780	32.745	-0.002	-0.002
67	415	34.043	33.011	5.223	33.015	34.047	-0.003	-0.004
68	3	32.737	38.538	12.953	38.539	32.738	-0.001	-0.001
68	224	33.951	34.213	6.758	34.218	33.957	-0.005	-0.006
69	2	33.168	37.436	11.259	37.436	33.168	0.000	0.000
69	54	33.509	36.134	9.431	36.132	33.507	0.002	0.002
69	284	34.034	33.808	6.192	33.806	34.033	0.001	0.001
70	2	33.121	37.535	11.419	37.531	33.118	0.003	0.003
70	130	33.960	34.656	7.288	34.659	33.964	-0.003	-0.004
70	361	34.086	33.186	5.404	33.184	34.085	0.001	0.001

Table 3 (Cont'd).

STA	Z	Sample Values		CTD Values			Difference	
		S	C	T	C	S	DC	DS
71	2	32.997	37.217	11.208	37.210	32.991	0.006	0.006
71	332	34.085	33.447	5.713	33.453	34.092	-0.007	-0.007
72	9	33.014	37.436	11.427	37.435	33.013	0.001	0.001
72	459	34.138	33.109	5.218	33.110	34.138	0.000	0.000
73	473	34.155	33.069	5.149	33.068	34.153	0.001	0.002
74	291	34.042	34.117	6.526	34.116	34.041	0.001	0.001
74	365	34.078	33.603	5.879	33.601	34.076	0.002	0.002
75	492	34.085	32.793	4.897	32.796	34.088	-0.002	-0.003
76	80	32.748	36.574	10.737	36.574	32.749	-0.001	-0.001
76	279	33.955	34.194	6.706	34.195	33.956	-0.001	-0.001
77	65	32.656	36.625	10.905	36.626	32.657	-0.001	-0.001
77	500	34.092	32.837	4.936	32.837	34.091	0.001	0.001
78	3	32.513	37.663	12.249	37.662	32.512	0.001	0.001
78	30	32.519	37.205	11.722	37.206	32.520	-0.001	-0.001
78	485	34.082	32.889	5.011	32.889	34.082	0.000	0.000
79	106	33.879	35.286	8.081	35.284	33.877	0.002	0.002
79	265	33.961	33.859	6.332	33.853	33.955	0.006	0.006
80	25	33.221	35.817	9.404	35.821	33.224	-0.003	-0.003
80	501	34.142	33.300	5.408	33.304	34.146	-0.003	-0.004
81	2	33.520	36.481	9.826	36.479	33.519	0.001	0.001
81	450	34.124	33.223	5.364	33.223	34.124	0.000	0.000
82	3	33.007	36.594	10.509	36.592	33.005	0.002	0.002
82	295	34.039	33.918	6.305	33.915	34.036	0.003	0.003
82	399	34.051	33.300	5.548	33.297	34.049	0.002	0.002
83	134	33.894	35.173	7.927	35.173	33.894	0.000	0.000
83	499	34.165	32.994	5.042	32.995	34.165	0.000	0.000
84	310	33.994	33.434	5.800	33.434	33.994	0.000	0.000
85	454	34.148	33.118	5.221	33.120	34.149	-0.001	-0.001
86	374	34.093	33.400	5.632	33.397	34.090	0.003	0.003
87	2	32.655	38.534	13.044	38.534	32.655	0.000	0.000
87	334	33.979	33.487	5.863	33.487	33.979	0.000	0.000
88	503	34.144	32.972	5.035	32.973	34.145	-0.001	-0.001
89	432	34.117	33.176	5.327	33.176	34.118	-0.001	-0.001
90	2	33.084	38.082	12.059	38.079	33.081	0.003	0.003
90	259	34.011	34.142	6.601	34.141	34.010	0.001	0.001
90	479	34.140	33.062	5.153	33.066	34.144	-0.003	-0.004
92	241	33.958	34.910	7.518	34.911	33.959	-0.001	-0.001
93	404	34.045	33.769	6.078	33.769	34.046	-0.001	-0.001
94	10	32.584	38.133	12.683	38.131	32.581	0.003	0.003
94	302	34.000	34.387	6.864	34.387	34.000	0.000	0.000
95	17	32.510	37.766	12.360	37.767	32.511	-0.001	-0.001
95	415	33.998	33.202	5.483	33.203	33.999	-0.001	-0.001
96	15	32.522	37.809	12.394	37.809	32.522	0.000	0.000
97	5	32.490	37.401	11.984	37.399	32.488	0.002	0.002
97	19	32.499	37.401	11.967	37.394	32.492	0.007	0.007
97	230	33.920	34.963	7.621	34.961	33.918	0.002	0.002
97	458	34.076	33.365	5.567	33.363	34.075	0.001	0.001
98	4	32.506	37.077	11.606	37.076	32.505	0.001	0.001
98	36	32.512	37.067	11.573	37.062	32.507	0.005	0.005
98	124	33.282	35.926	9.411	35.922	33.277	0.005	0.005
98	415	34.013	33.096	5.348	33.094	34.011	0.001	0.002

setting which provided an operational sensitivity range of approximately 0.2 to 8.0 μg pigment per liter. The analog output is digitized by the CTD and merged into the data stream. Calibration samples from multiple depths were obtained via rosette samples from over 50 stations per cruise. *In vivo* fluorescence values from the fluorometer were compared with the extracted pigment concentrations obtained from the calibration samples, using standard chlorophyll extraction techniques for frozen, filtered samples. The calibration resulted in the following conversions for the voltages reported in this report, with r , the correlation coefficient, shown for each result:

May-Day (0630-1900 local time (GMT-7))

upper 50 meters

$$\text{total pigment} = 1.06 * \text{volts} + 0.35 \quad r = .73$$

(n = 105)

$$\text{chlorophyll a} = 0.83 * \text{volts} + 0.26 \quad r = .69$$

(n = 105)

below 50 meters

$$\text{total pigment} = 0.57 * \text{volts} + 0.56 \quad r = .59$$

(n = 23)

$$\text{chlorophyll a} = 0.48 * \text{volts} + 0.27 \quad r = .69$$

(n = 23)

May-Night (1900-0630 local time (GMT-7))

upper 50 meters

$$\text{total pigment} = 0.90 * \text{volts} + 0.24 \quad r = .76$$

(n = 93)

$$\text{chlorophyll a} = 0.71 * \text{volts} + 0.13 \quad r = .77$$

(n = 93)

below 50 meters

$$\text{total pigment} = 0.63 * \text{volts} + 0.20 \quad r = .60$$

(n = 15)

$$\text{chlorophyll a} = 0.50 * \text{volts} + 0.06 \quad r = .61$$

(n = 15)

The poor correlations below 50 meters are the consequence of degradation of

photosynthetic pigments via the grazing processes of zooplankton. The in situ chlorophyll values at 5 meters are shown in Figure 4.

CTD DATA PROCESSING PROCEDURES

The CTD data are recorded at sea on a Kennedy 9-track data logger, with many stations on each tape. Data logging normally begins as soon as the CTD probe is in the water, and continues until after the probe has reached the maximum depth. The first step in data processing is to obtain a directory of the data tape using program NBCTD3. For each station, this directory lists the header data, the block number in which the instrument descent begins, and the maximum pressure. NBCTD3 is then used to create disc files of pressure, temperature, conductivity and transmissometer counts for each cast. This program also corrects the conductivity data for variations in cell geometry due to pressure and temperature changes. Using program CTDRED6 we then apply the temperature, conductivity and pressure calibrations (described above), and check for extraneous values and extreme gradients. This program applies a recursive filter designed by R. Millard (S. Hayes, pers. comm.) to the conductivity data to remove the phase difference introduced by the finite response time ($T = 235$ msec) of the temperature sensor; this filter has the form

$$C(n) = a_0 C(n-1) + (1-a_0) C_1(n)$$

where $C_1(n)$ is the observed value plus the calibration adjustment, $C(n)$ is the filtered value of the n^{th} scan, and $a_0 = T / (T + t_i) = 0.880$ is a constant determined from the time constant T and the time interval t_i between scans. The same recursive filter is applied to the pressure data to reduce the digitizing noise and ensure that the pressure data is in phase with the

temperature and conductivity data at low frequencies (<1 Hz). Practical salinity (Lewis, 1978) is computed from the temperature and the filtered conductivity and pressure data using standard algorithms (Fofonoff and Millard, 1983) and a value of 42.914 to convert CTD conductivity to conductivity ratio (Culkin and Smith, 1980).

The filtered pressure data are used to eliminate the ascending scans caused by ship's motion. Data collected during descent are sorted into 2 dbar bins, and the extremes and averages of each variable are computed for each bin. Profiles of the temperature and salinity extremes are plotted to determine whether further editing is needed, and the 2 dbar mean temperatures and salinities constitute the processed data. When editing appears to be necessary, the original data files are examined in detail; data points that are rejected are replaced by linearly interpolated values, and the files are reprocessed using CTDRED6.

During cruise W8705A a loose connection inside of the transmissometer caused intermittent voltage drops in the transmissometer power. Due to the infrequency and short duration of the voltage drops, the problem was not detected until Station 74. The problem would cause the transmissometer data to drop suddenly to a value of zero within a few frames of data and then to slowly return from zero to near its original value again after some period of time, typically within one second (32 frames). The transmissometer was successfully repaired during Station 77. Altogether 39 stations were affected by the problem during the period of time covered by Station 6 through 76.

To remove the spikes caused by the voltage dropouts, the raw, unfiltered data files from program NBCTD3 were pre-processed through a program called TRAN2. In this program, the first 100 frames of data were accepted as given.

From this point each successive frame's transmissometer value was compared to the running average and standard deviation of the preceding five frames of data. If the data value was less than the running mean minus ten counts or less than the running mean minus ten standard deviations, then the data was set to a value of -88 to indicate an off-scale condition. In addition, if the data value was zero, a flag was set to indicate to the program that a voltage drop had occurred. In this case, data would continue to be set to -88 until the transmissometer value had returned to within 2.5 standard deviations or 2 counts (whichever was greater) of the mean.

The output file from TRAN2 was then run through a modified version of program CTDRED6 (CTDRED8) which ignored values of -88 when computing the average transmissometer values for each depth bin. If all of the data within a bin were -88, then the transmissometer output for that bin was set to -88. Otherwise the value retained was the average of all of the on-scale (greater than zero) points within a bin.

The processed data files containing integral pressure, and average temperature, conductivity, salinity, transmission, etc., are archived. These files are used to calculate other parameters of interest such as potential temperature (θ), potential density anomaly (σ_θ), specific volume anomaly, geopotential anomaly, sound velocity, etc., from the new equation of state of sea-water (UNESCO, 1981) using standard algorithms (Fofonoff and Millard, 1983). In this data report we show only profile plots of temperature, salinity, σ_θ , fluorescence voltage and light transmission vs. pressure, and tables of temperature, salinity, σ_θ , specific volume anomaly, geopotential anomaly, light transmission and fluorescence voltage at selected pressures.

DATA PRESENTATION

The hydrographic data are summarized in maps, vertical sections, and profile plots. For each alongshore and cross-shore section, we show the vertical distribution of temperature, salinity and sigma-theta, contoured subjectively. Tick marks at the top of each section indicate station positions at which a CTD cast was made.

For the complete survey, we show maps of temperature, salinity and sigma-theta at eleven standard depths: 0, 25, 50, 75, 100, 150, 200, 250, 300, 400 and 500 db. Maps of dynamic heights of the sea surface relative to 50, 100, 200 and 500 db, of the 25, 50 and 100 db surfaces relative to 250 db; and of the 25, 50, 100, 150 and 200 db surfaces relative to 500 db are included. All of the maps were contoured subjectively.

Averages and standard deviations of the profiles of temperature, salinity and sigma-theta vs pressure are presented for each module (Figure 5) and for each alongshore transect (Figure 6). The average and standard deviations for the temperature vs salinity curve are also shown (Figure 7).

Vertical profiles of temperature, salinity and sigma-theta vs. pressure are presented for the 98 stations. In addition, a second plot shows the vertical profiles of light transmission and fluorescence with the salinity profile repeated to facilitate comparisons among variables.

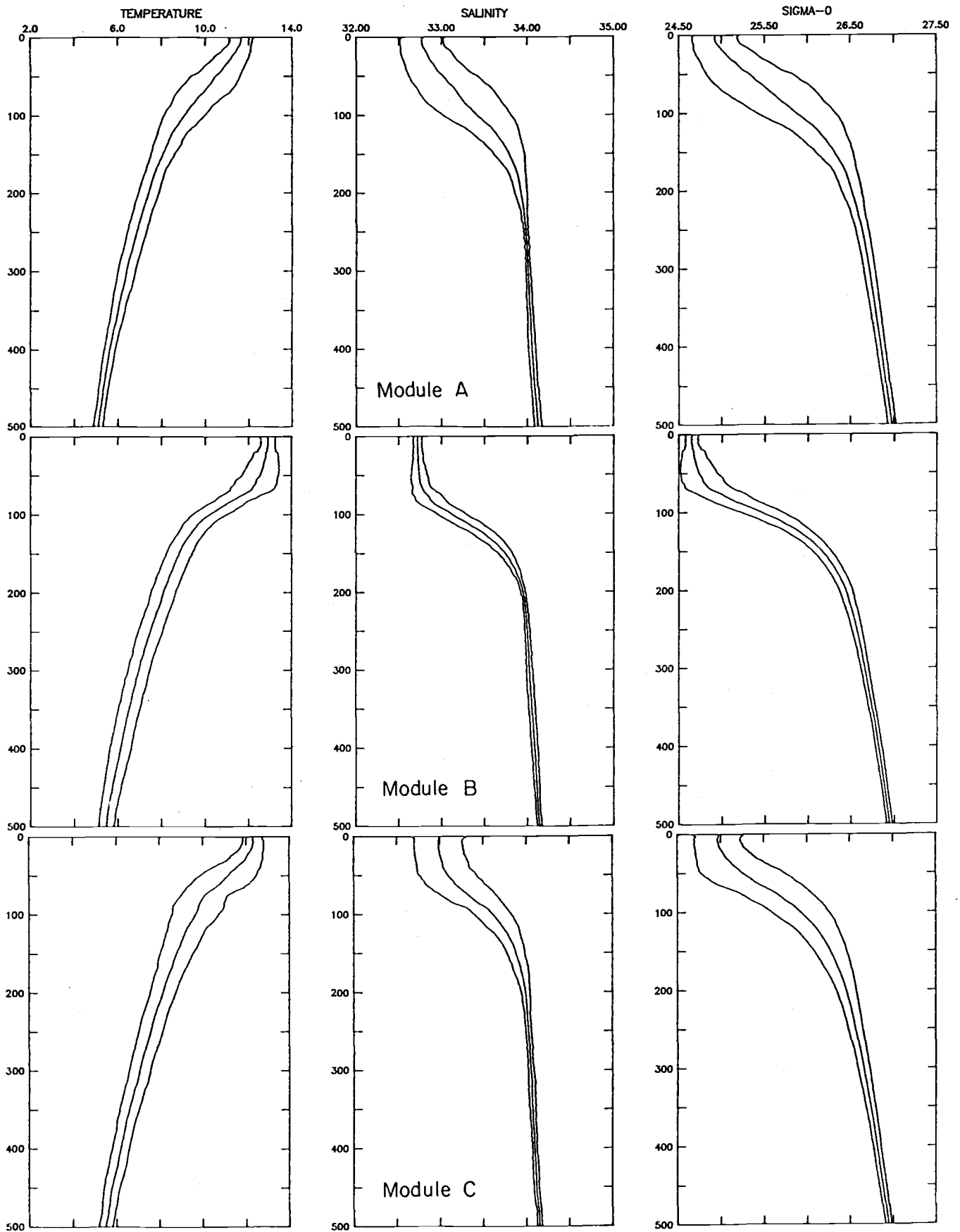


Figure 5. Overall averages, and the average plus and minus the standard deviation of temperature, salinity and potential density anomaly, calculated and displayed as a function of pressure for modules A, B and C.

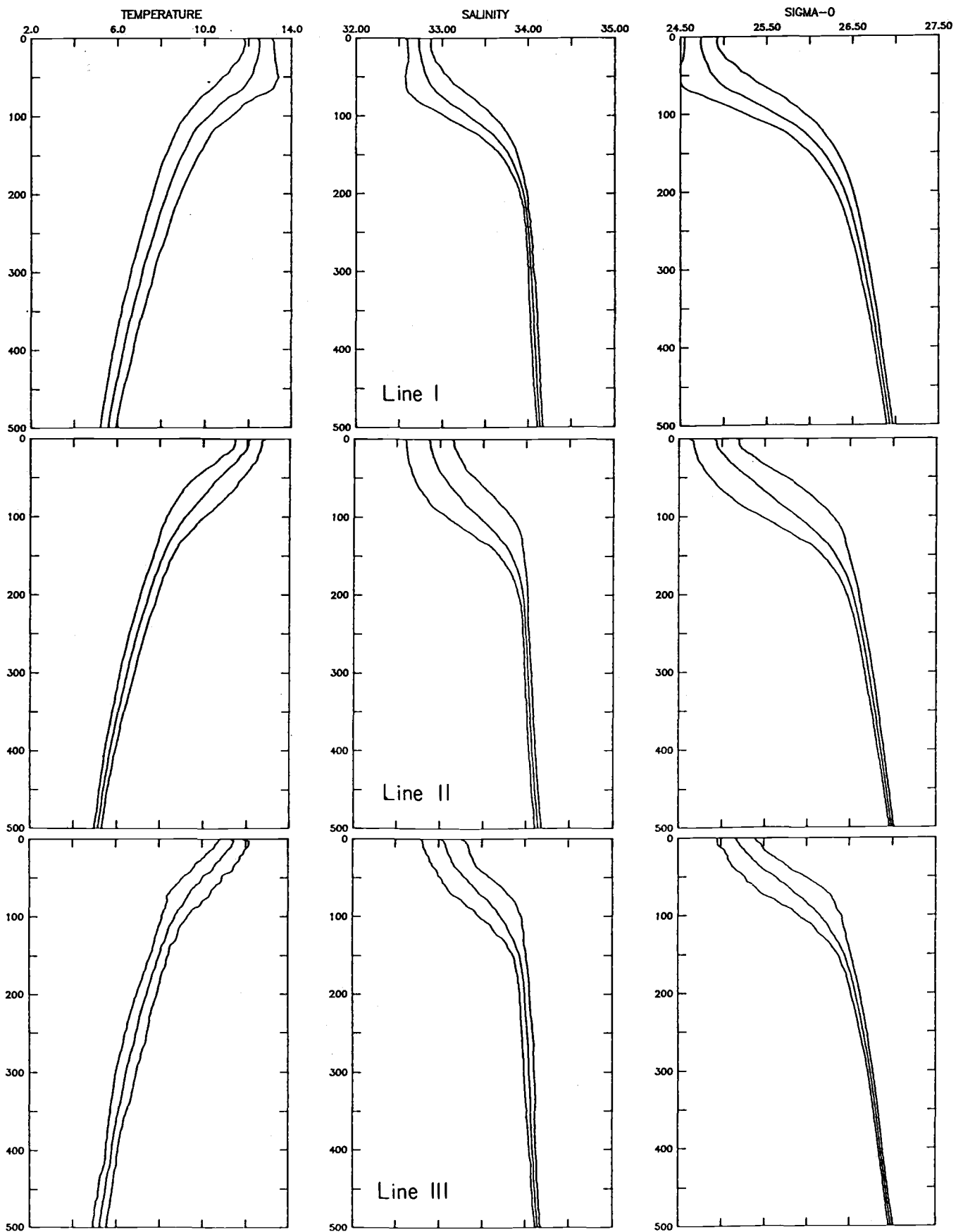


Figure 6. Overall averages, and the average plus and minus the standard deviation of temperature, salinity and potential density anomaly, calculated and displayed as a function of pressure for Lines I, II and III.

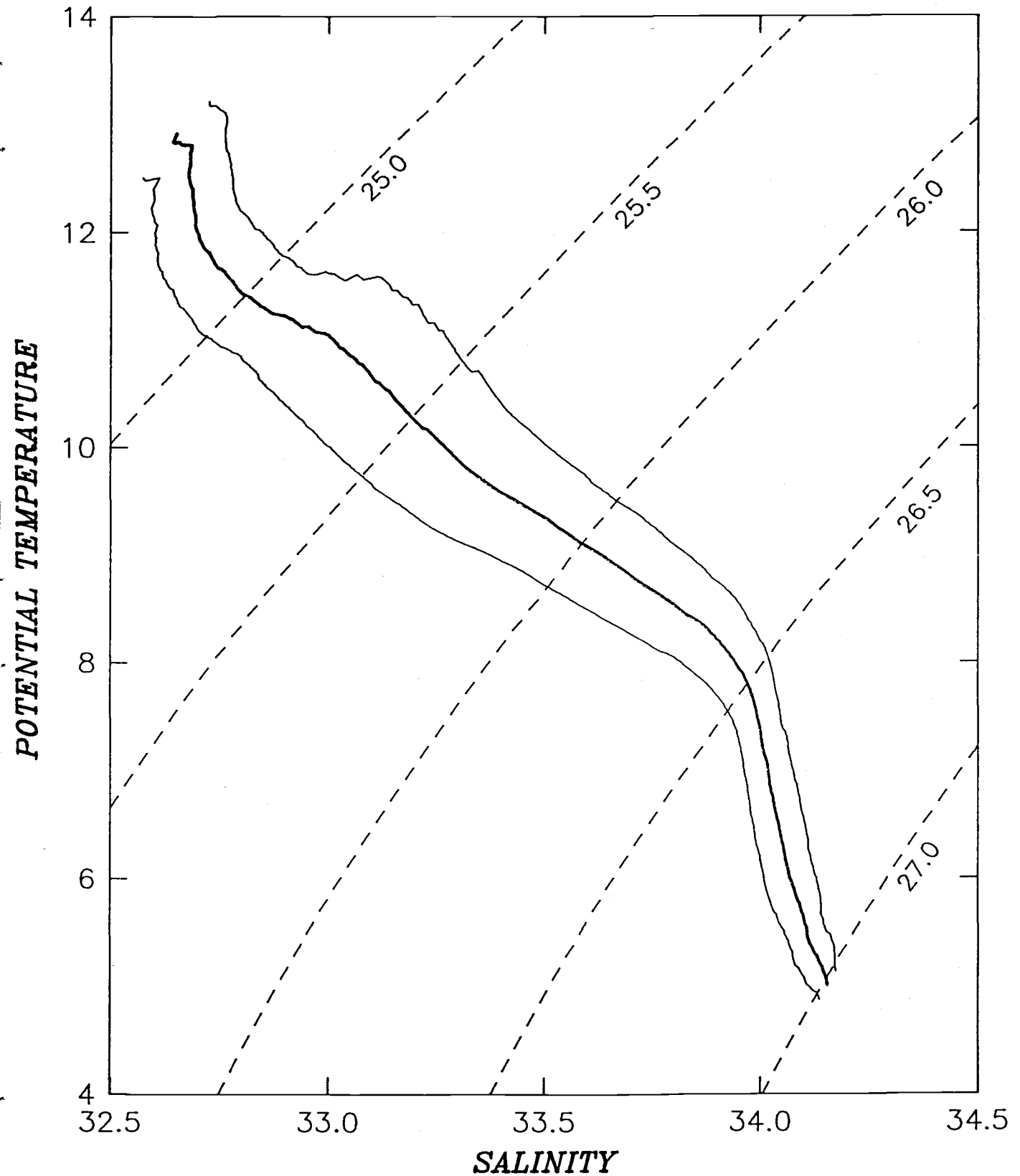


Figure 7. Average potential T-S curve calculated from the 98 CTD casts, and the average plus and minus the standard deviations of temperature and salinity, calculated as a function of sigma-theta (intervals of 0.01 kg/m^3), and shown only for the density range covered by at least 10 stations. Dashed curves are lines of constant sigma-theta.

For each station, we also present tabulations of selected parameters at standard depths. Header information for each station includes:

STA NO	Consecutive station number
LAT	Latitude in degrees and minutes north of the equator
LONG	Longitude in degrees and minutes west of the Greenwich meridian
DATE	Day, Month, Year
TIME	Universal Time (Greenwich Mean Time)
PROBE	Serial number of the CTD probe
DEPTH	Sonic depth in meters, corrected according to Matthews Tables.

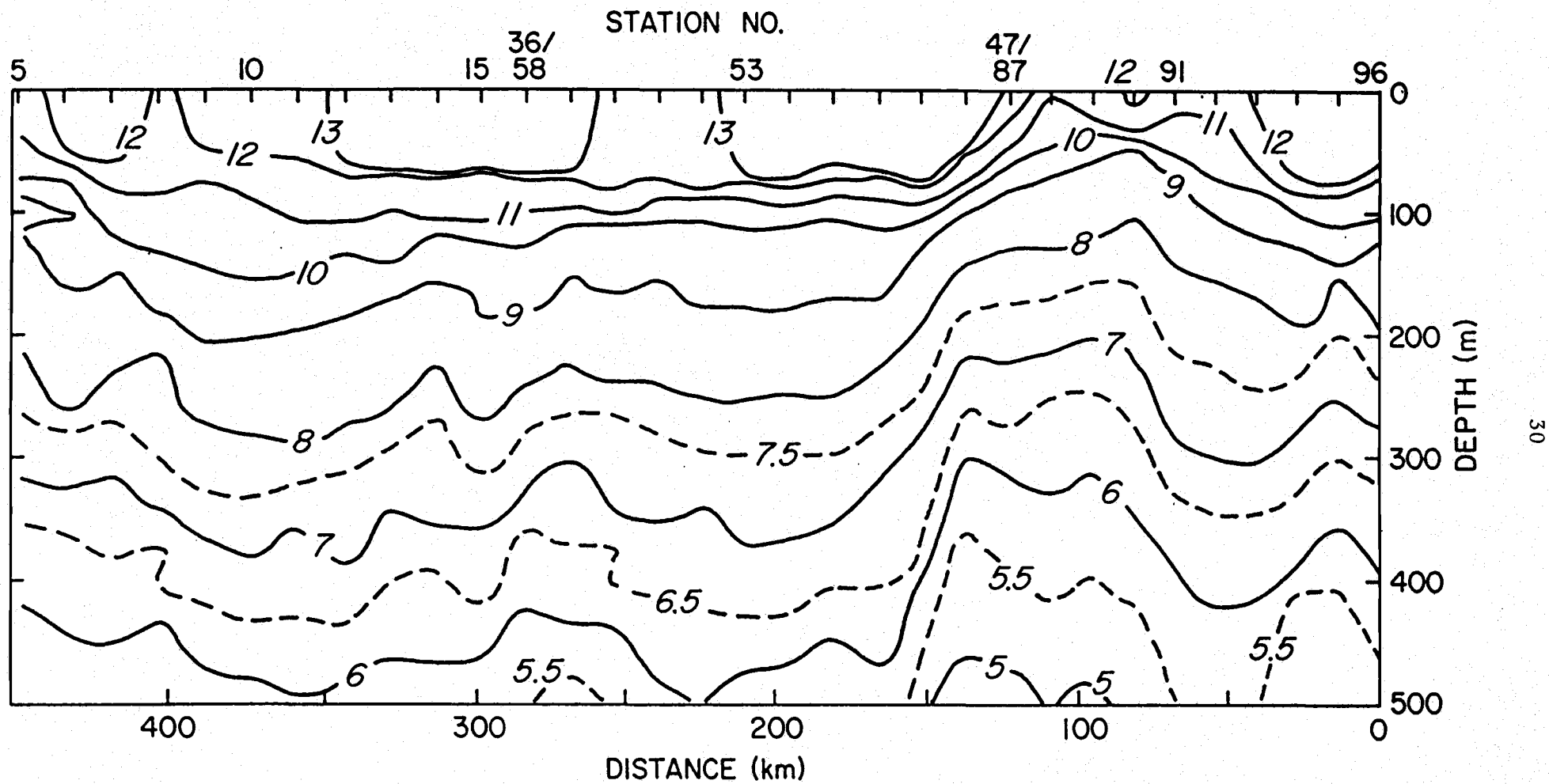
The data table for each station gives values of temperature in °C (TEMP), practical salinity (SAL), potential temperature (POTEN TEMP), potential density anomaly in kg/m^3 (SIGMA THETA), specific volume anomaly in $10^{-8} \text{ m}^3/\text{kg}$ (SVA), geopotential anomaly (dynamic height, DELD) in dynamic meters, light transmission (TRN) in percent, and fluorescence (FL) in volts.

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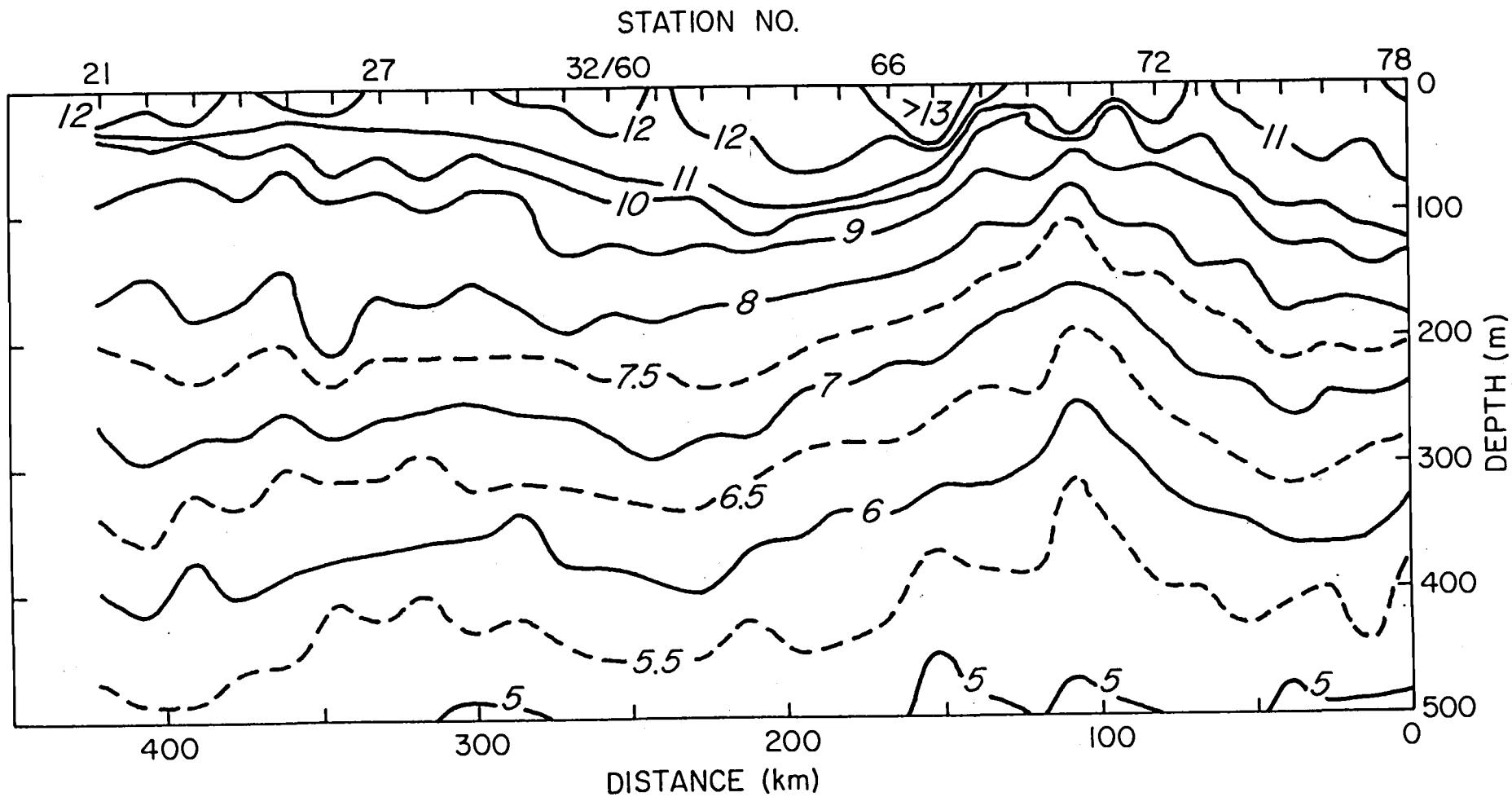
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Vertical Sections

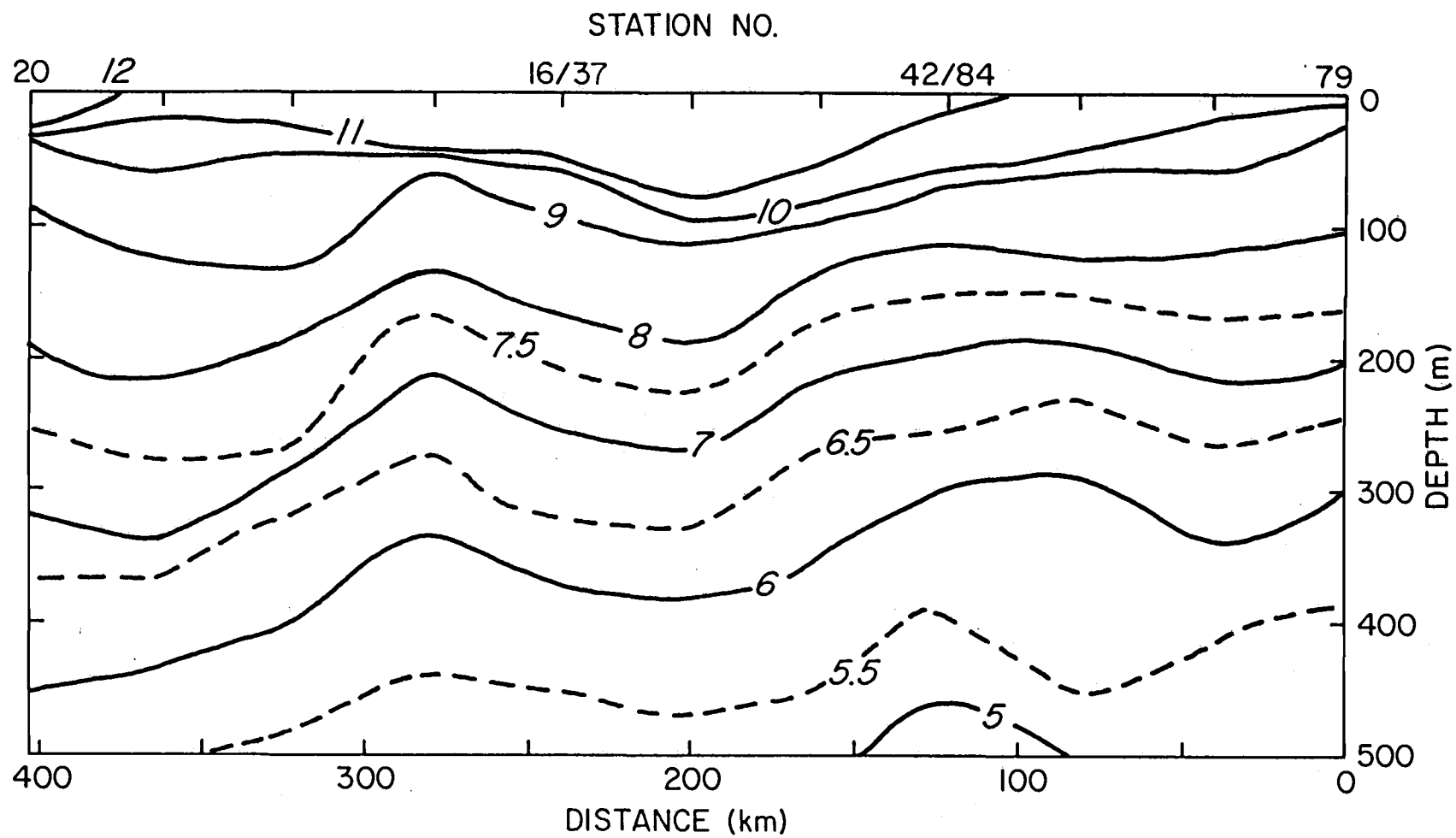
Alongshore



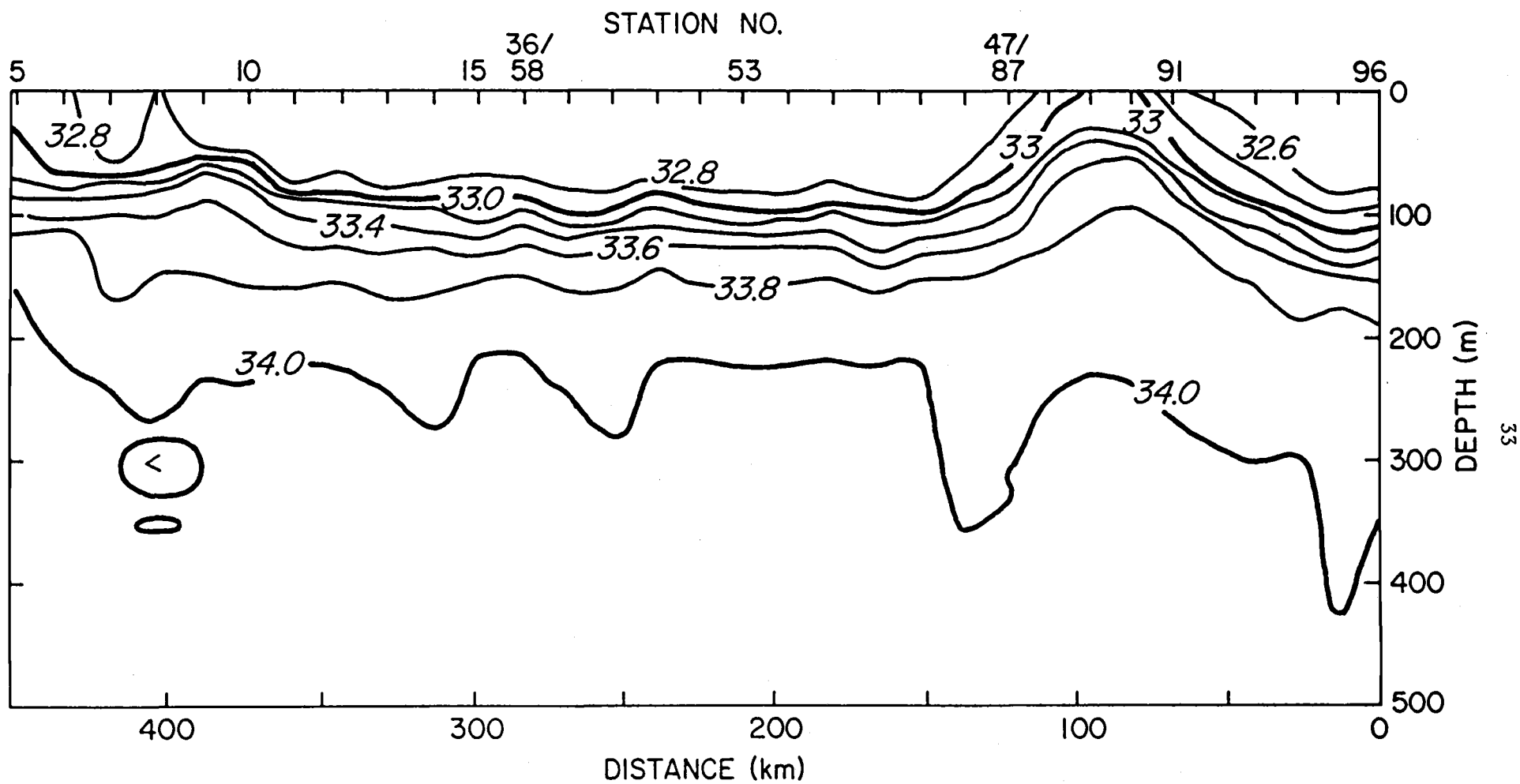
Temperature (°C) Line I 19-26 May 1987



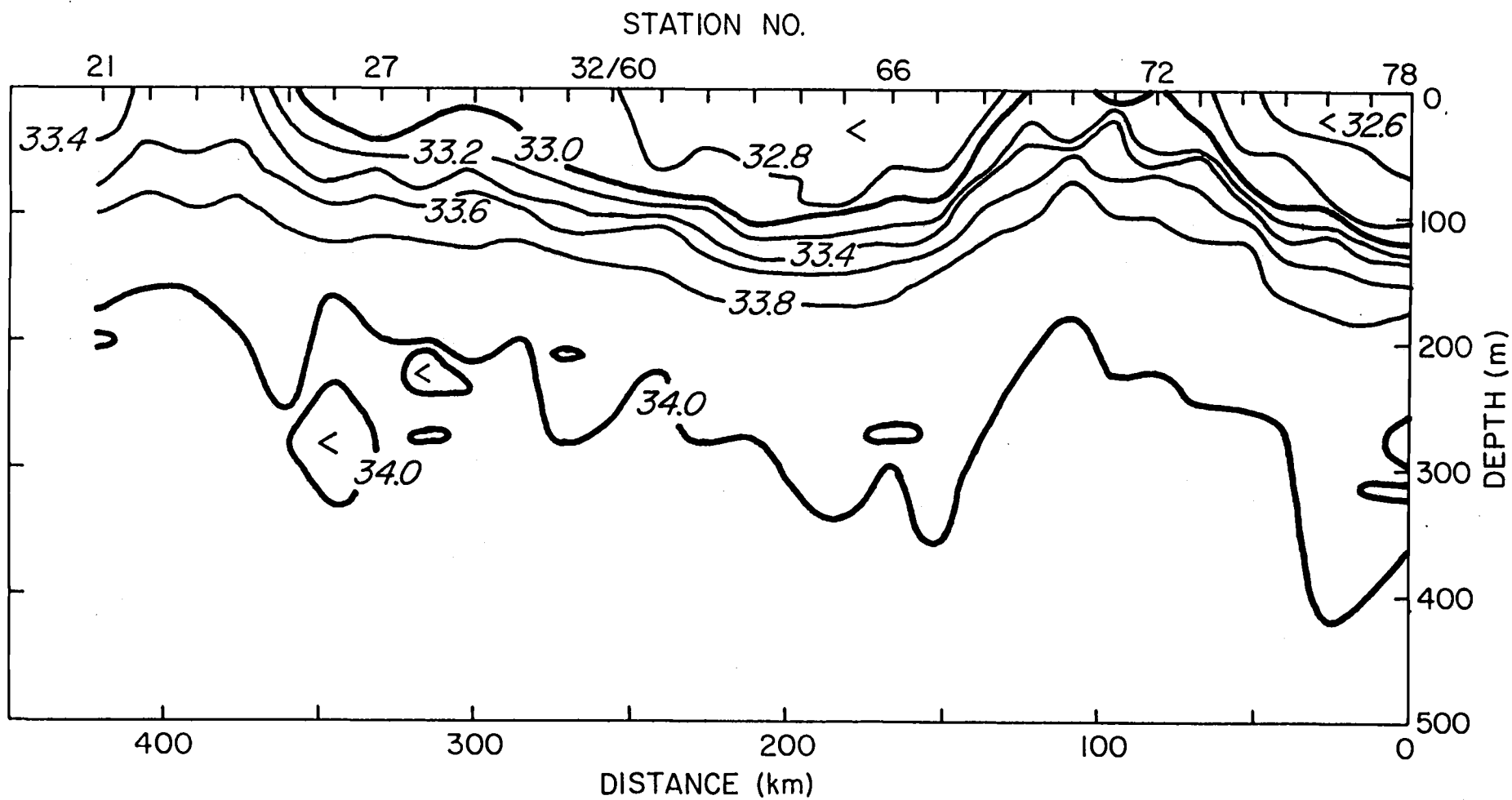
Temperature (°C) Line II 18-24 May 1987



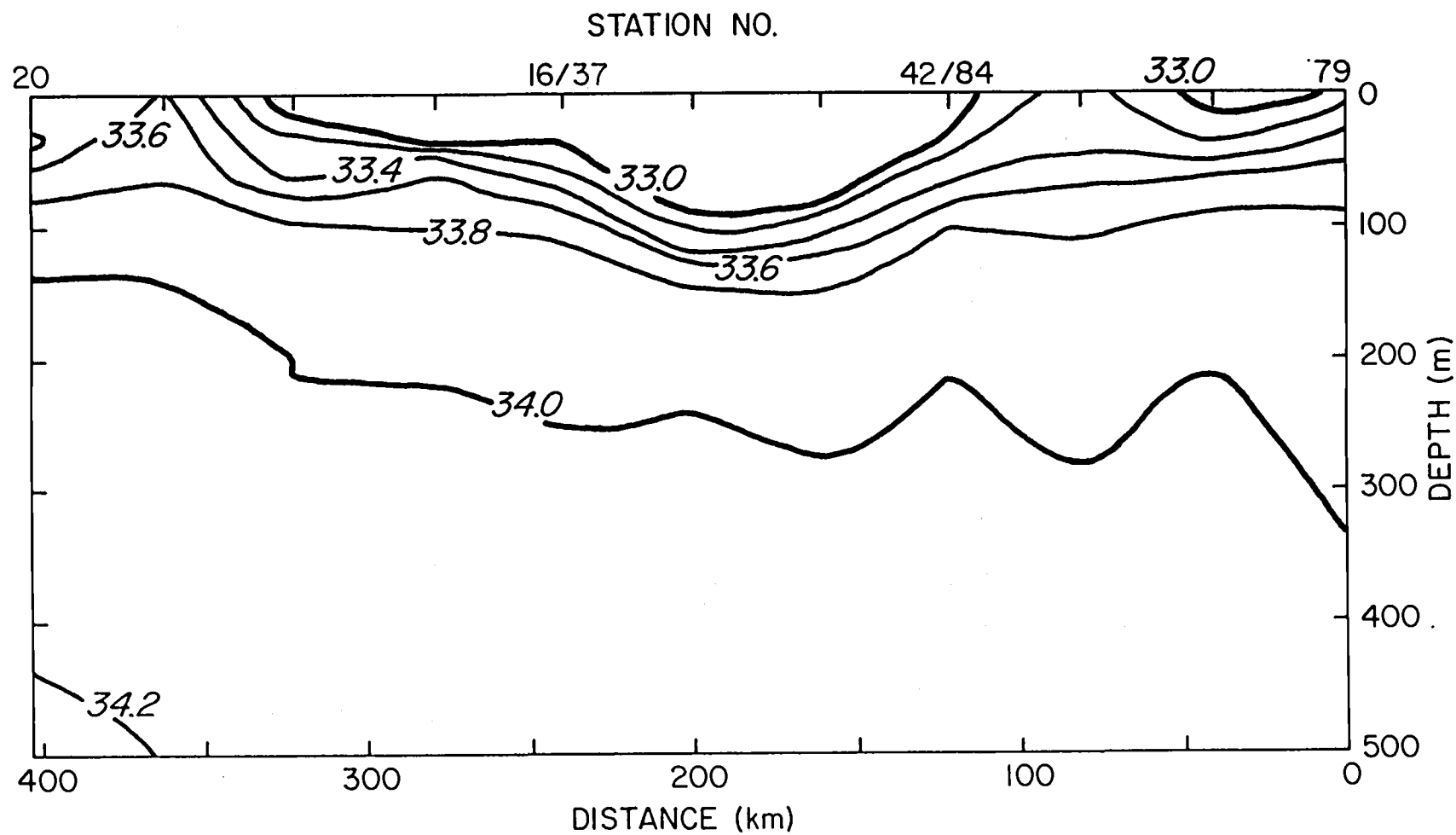
Temperature (°C) Line III 21-25 May 1987



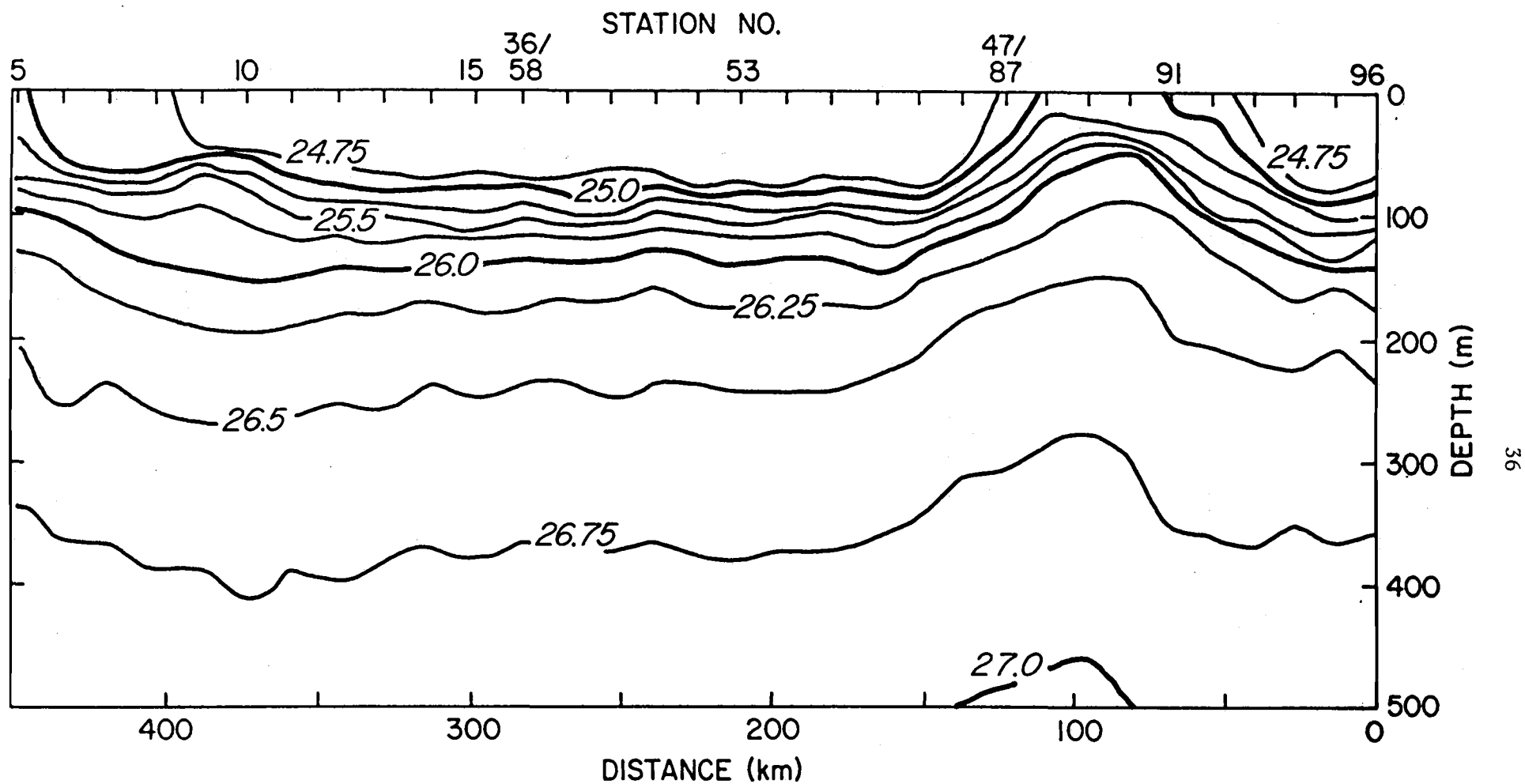
Salinity Line I 19-26 May 1987



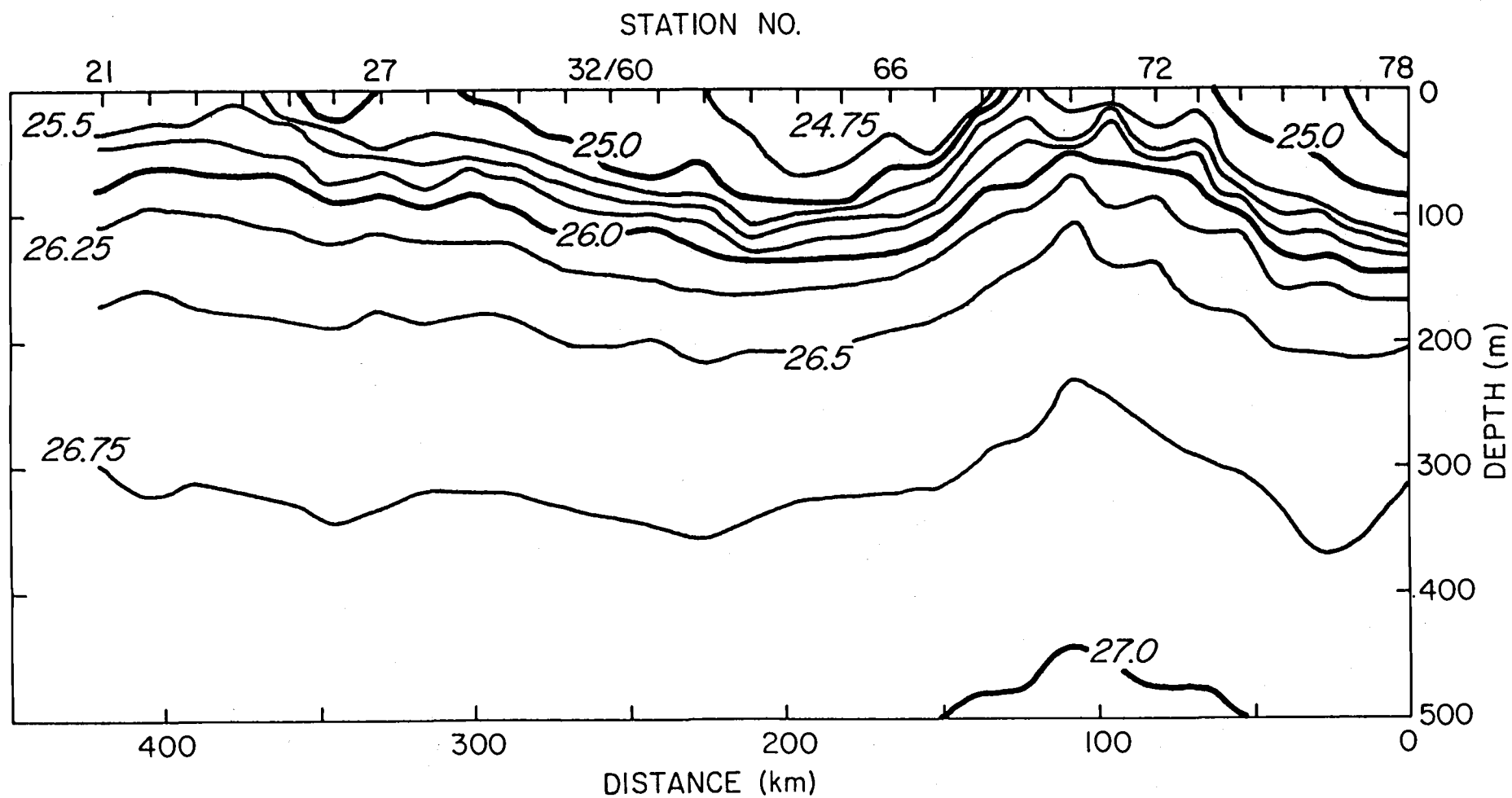
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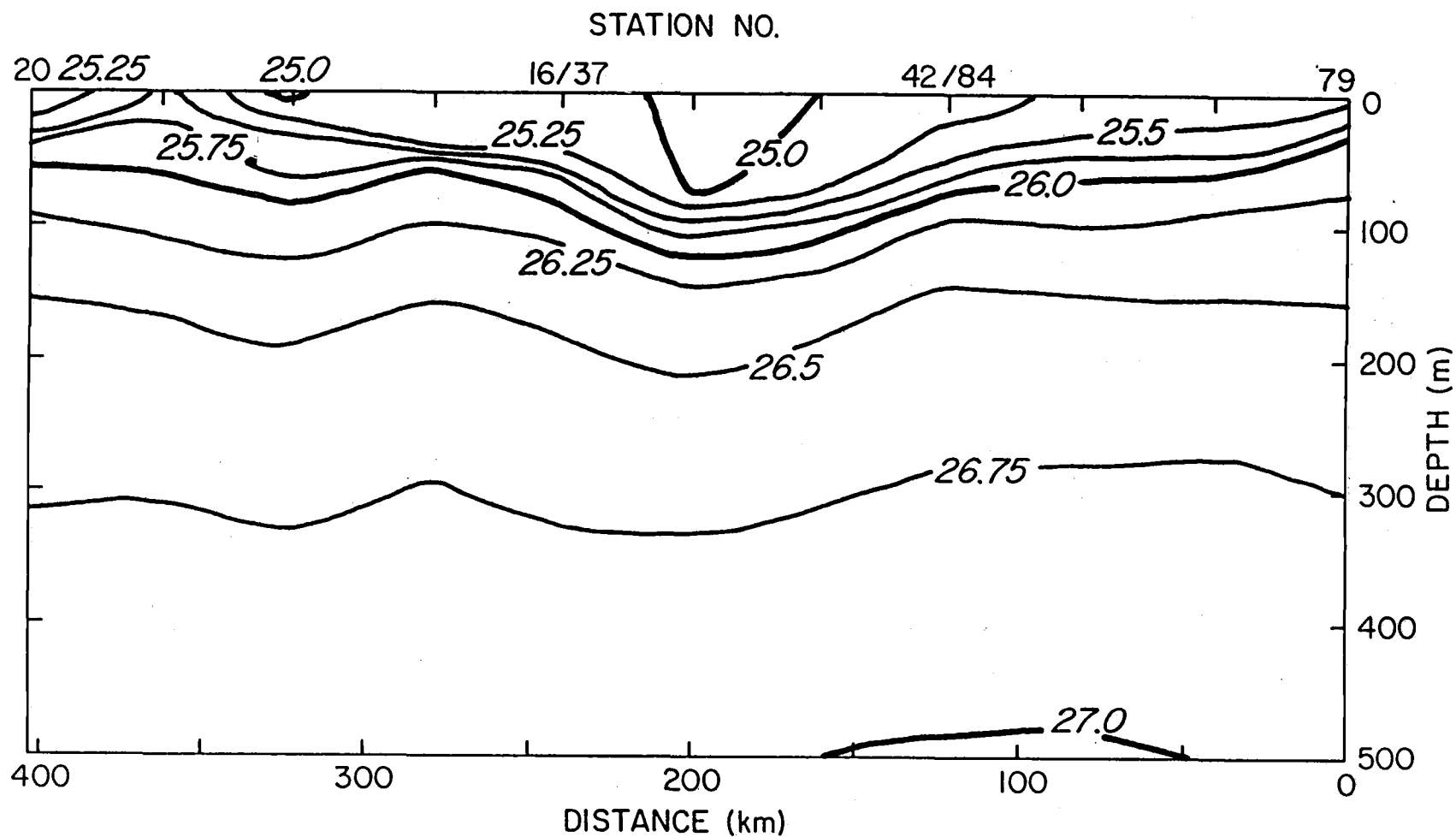
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Sigma- θ Line I 19-26 May 1987



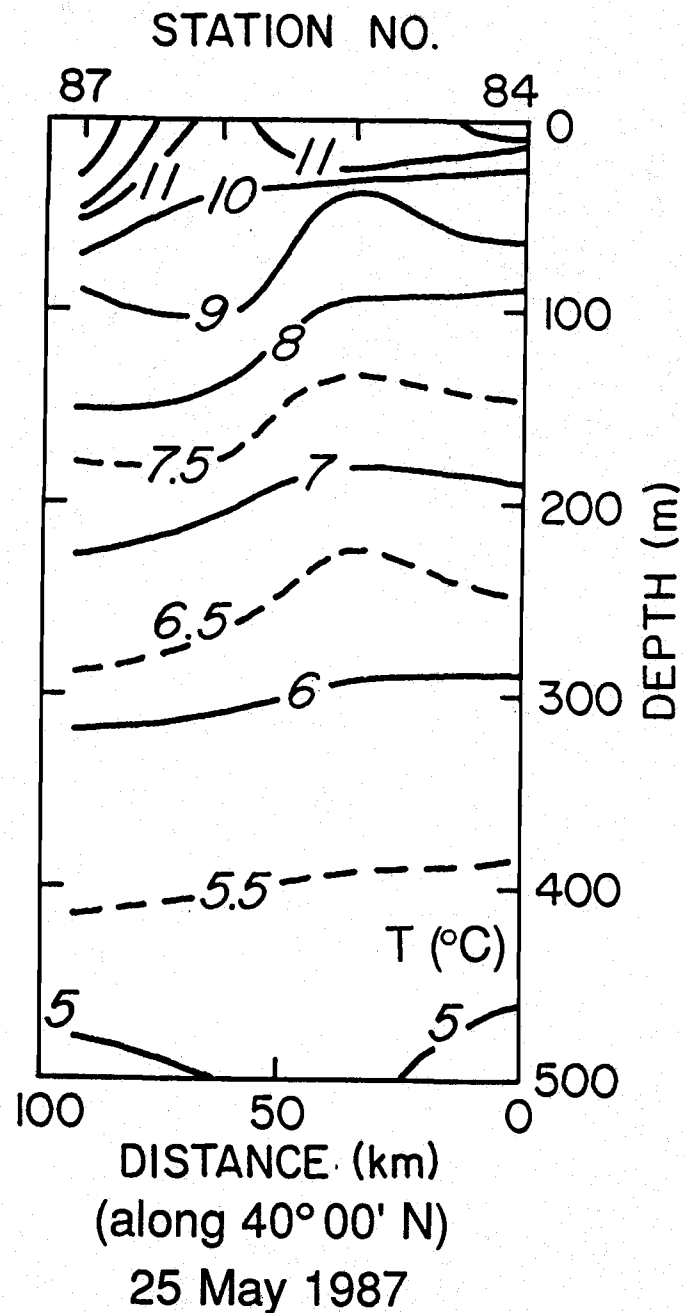
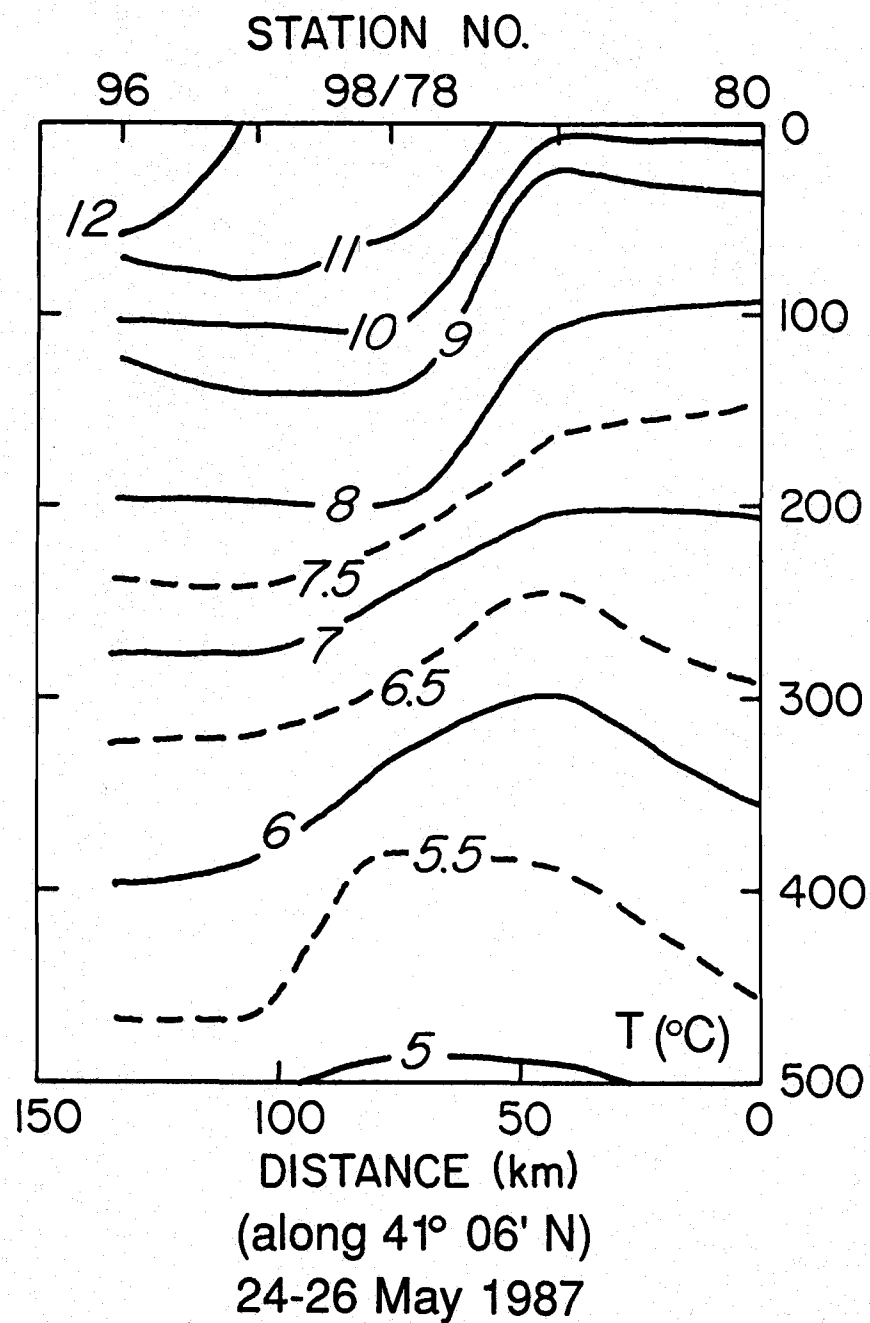
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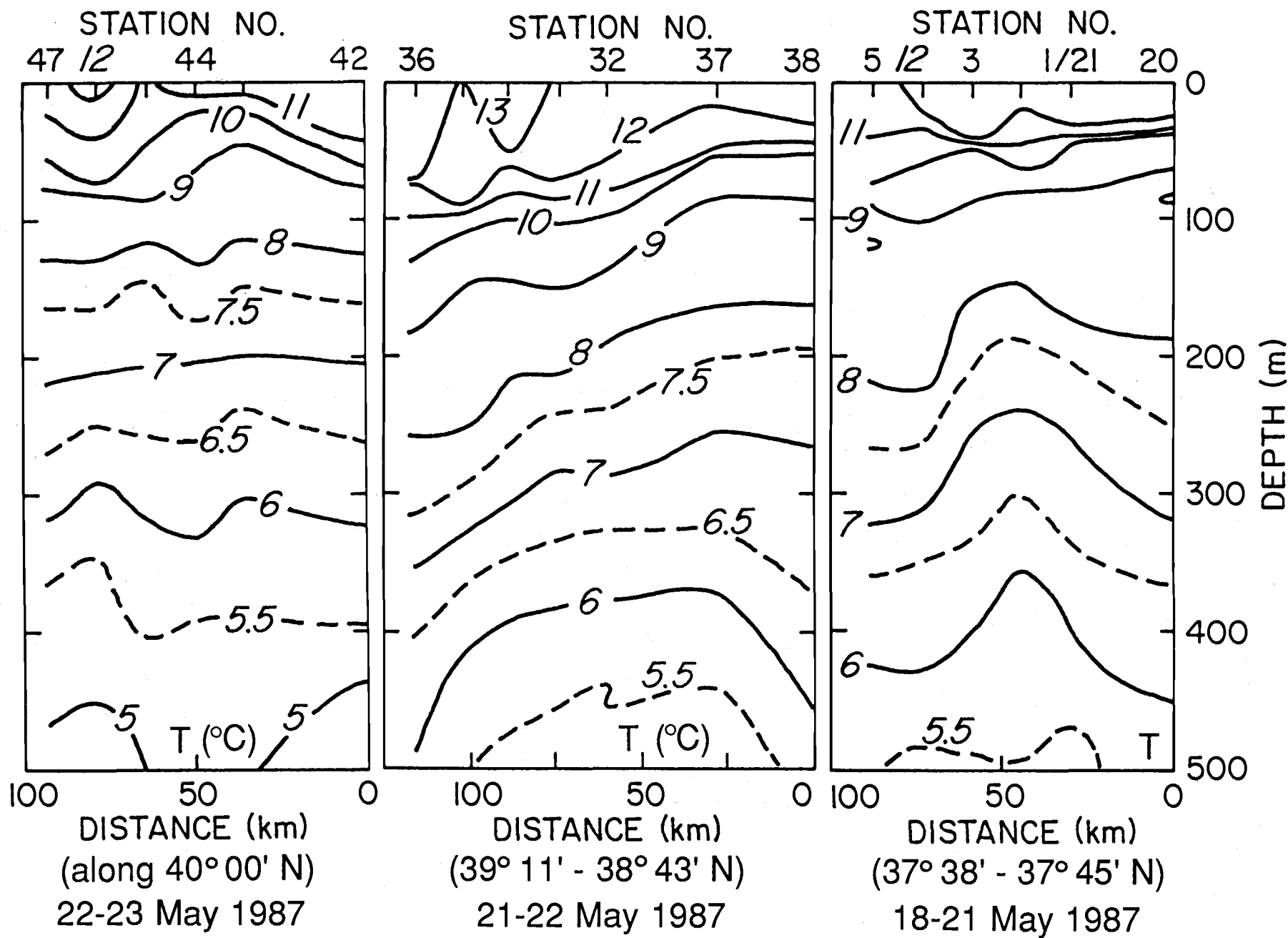


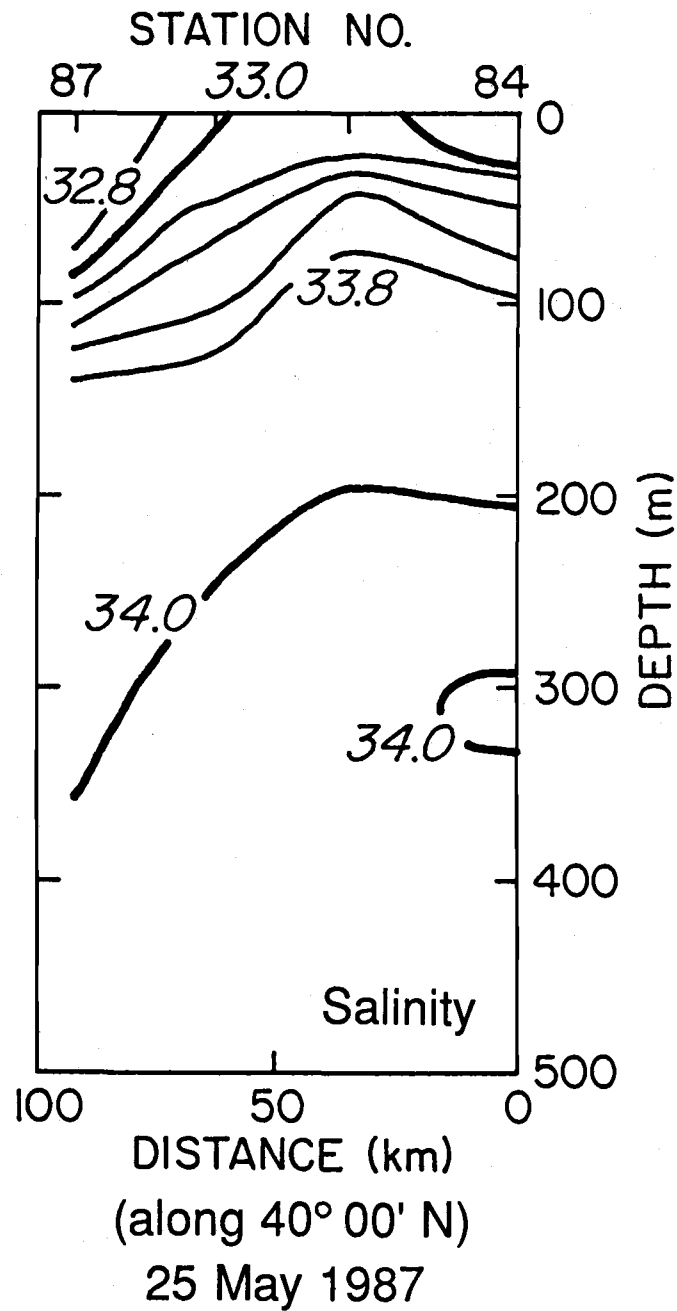
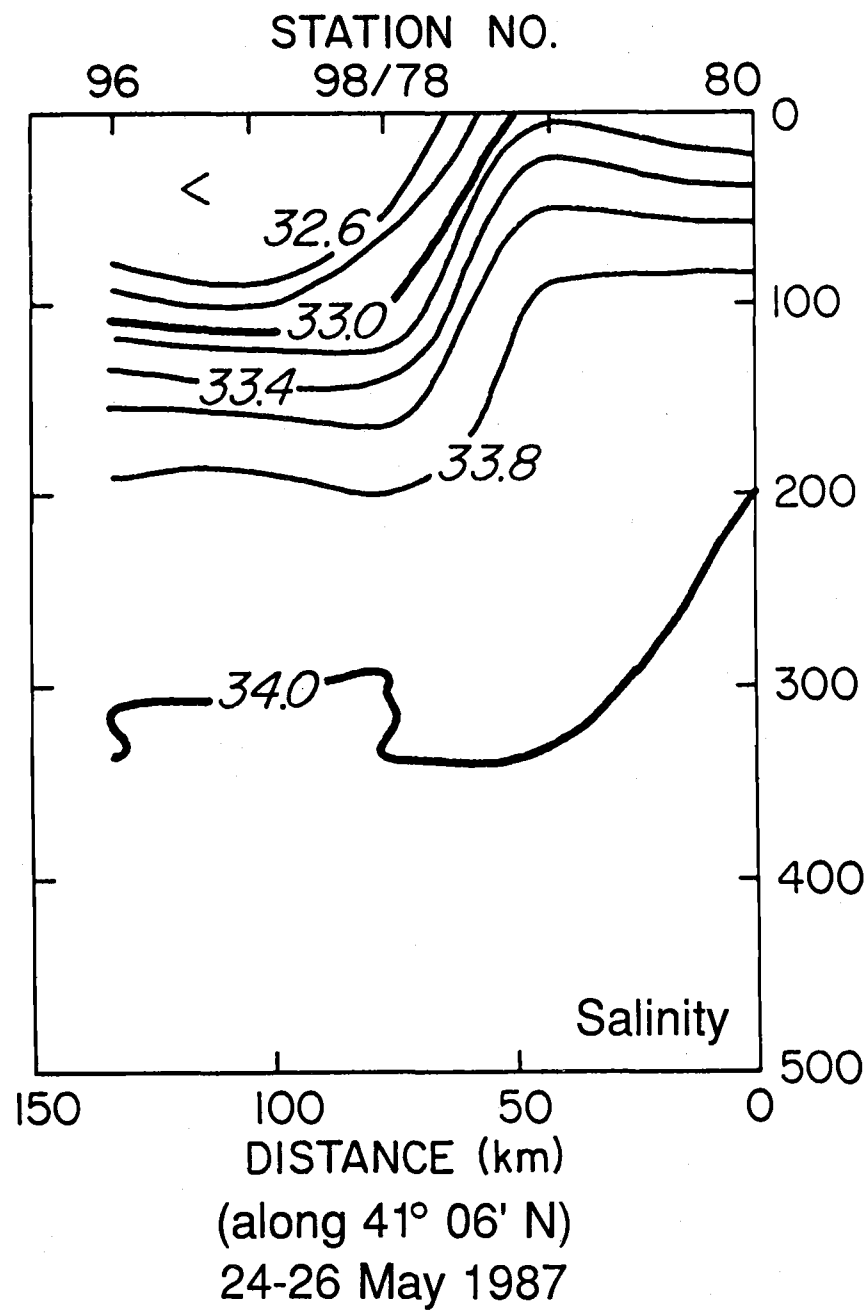
Sigma- θ Line III 21-25 May 1987

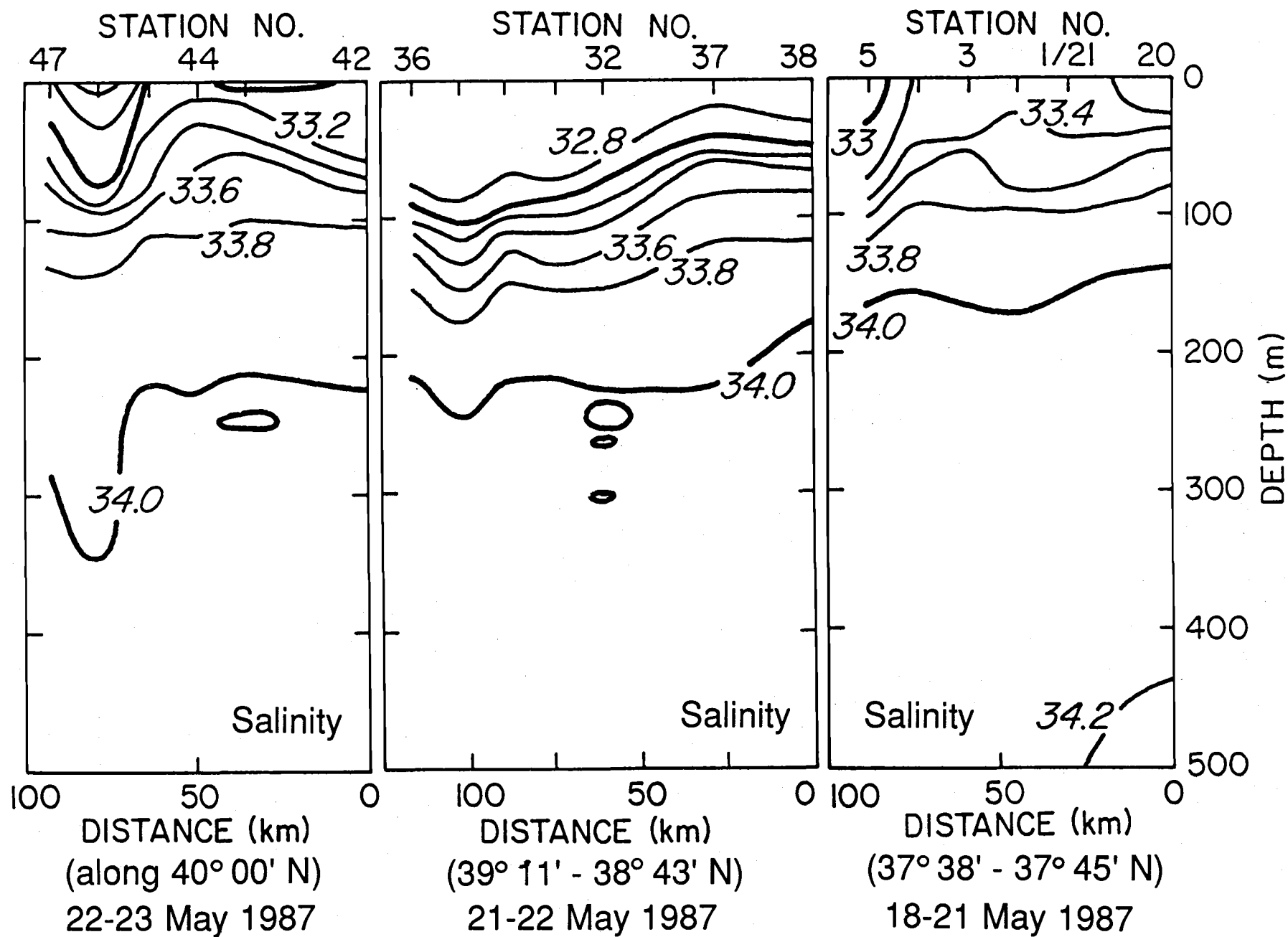
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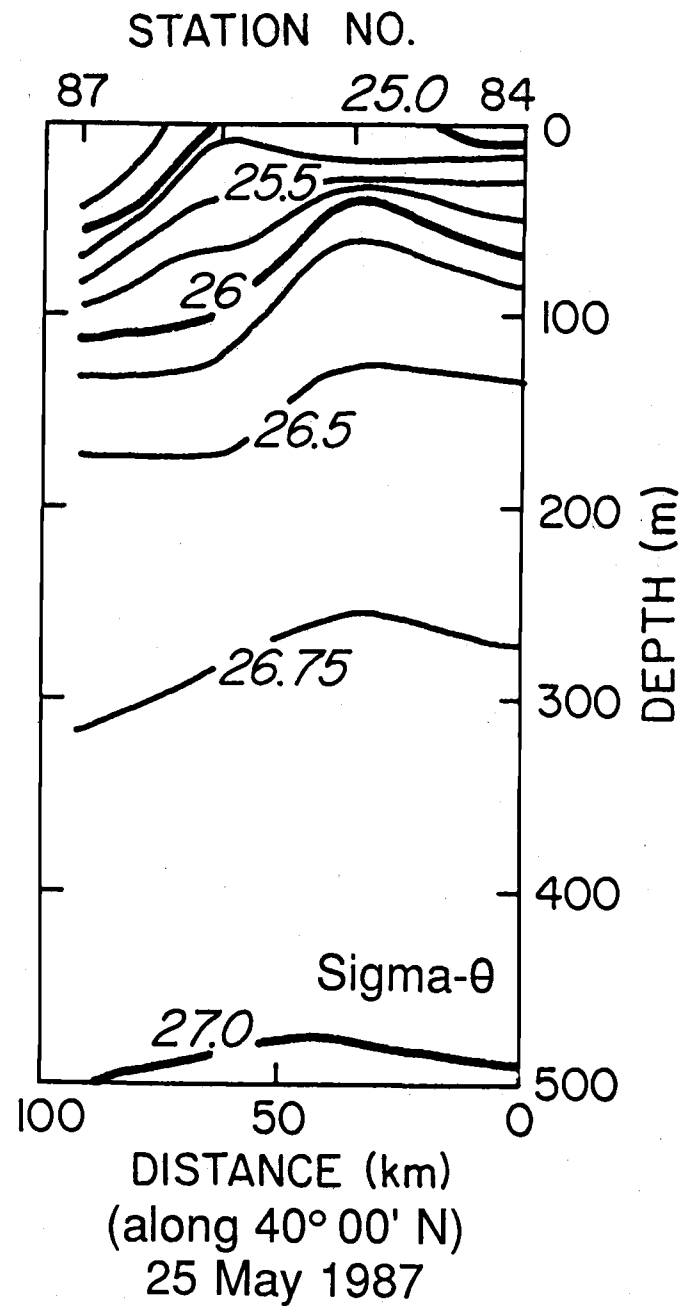
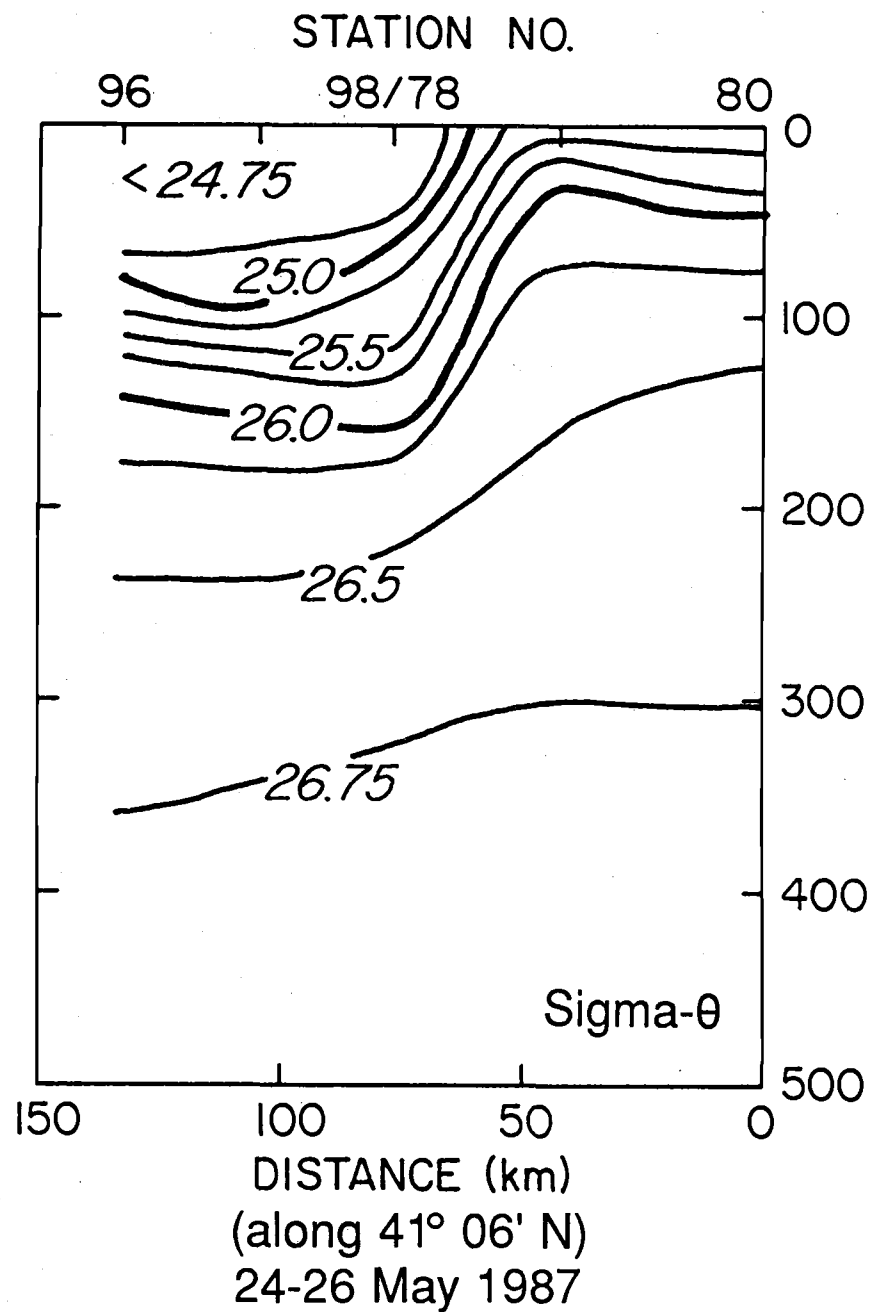
Cross-shore

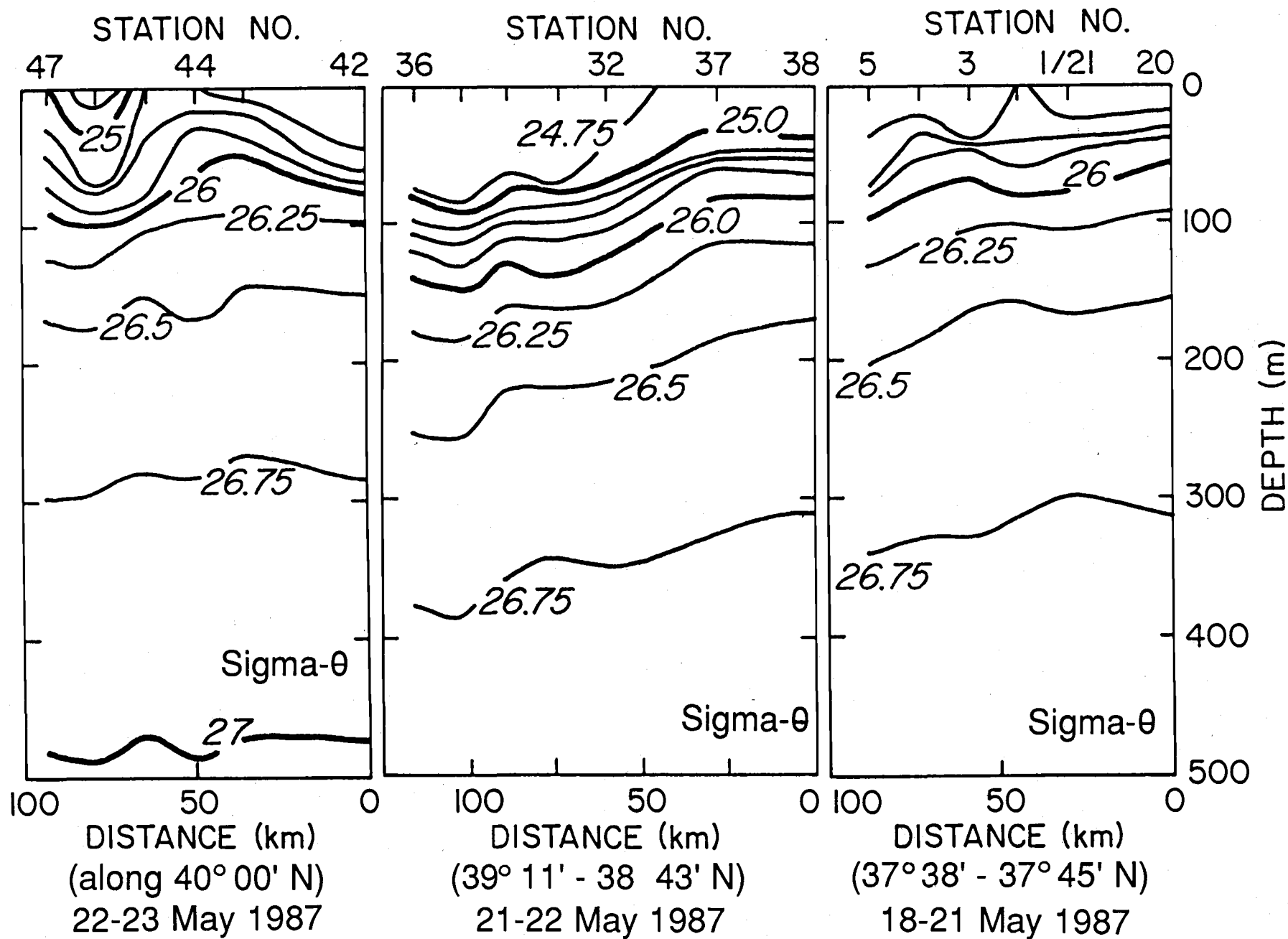




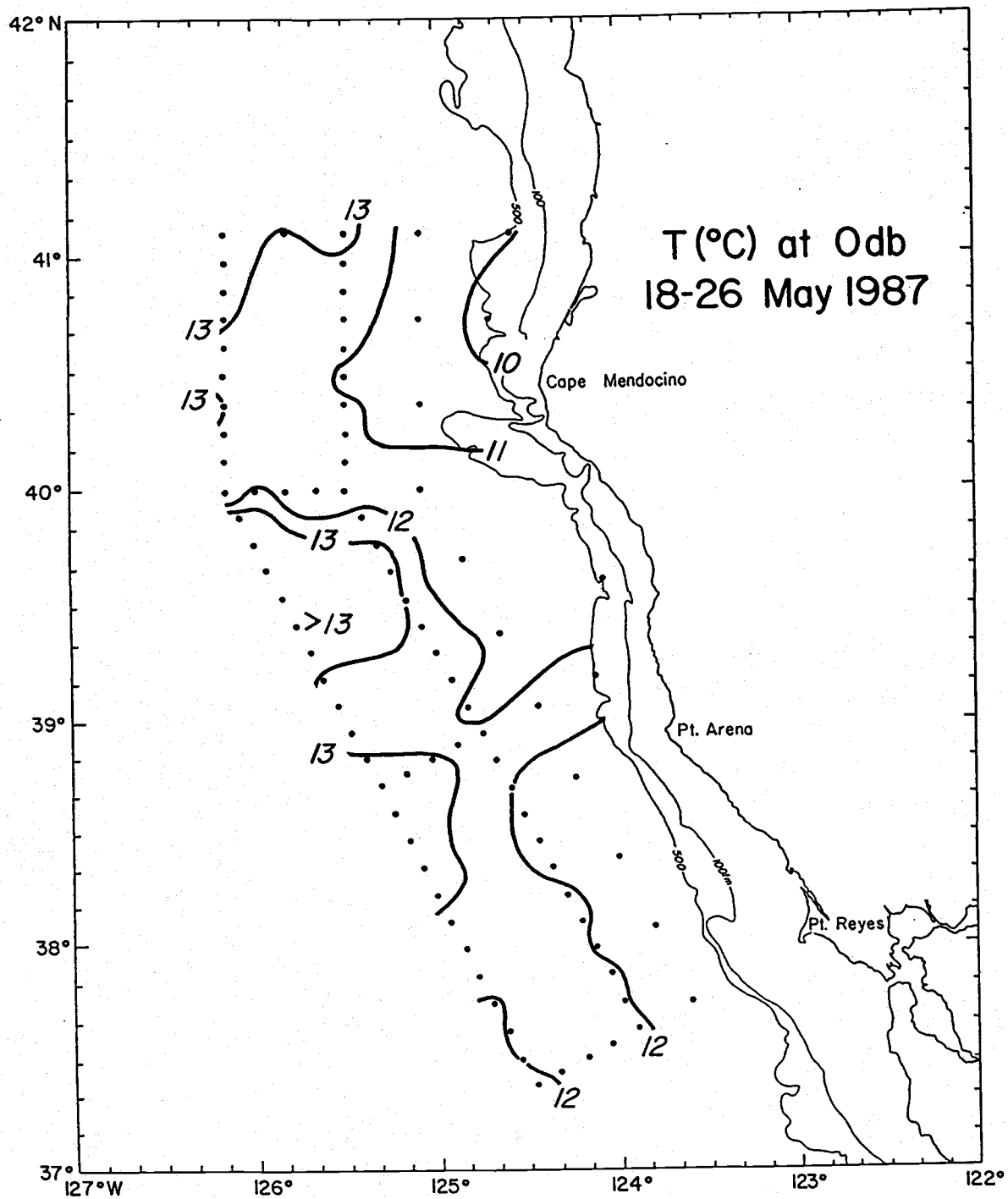


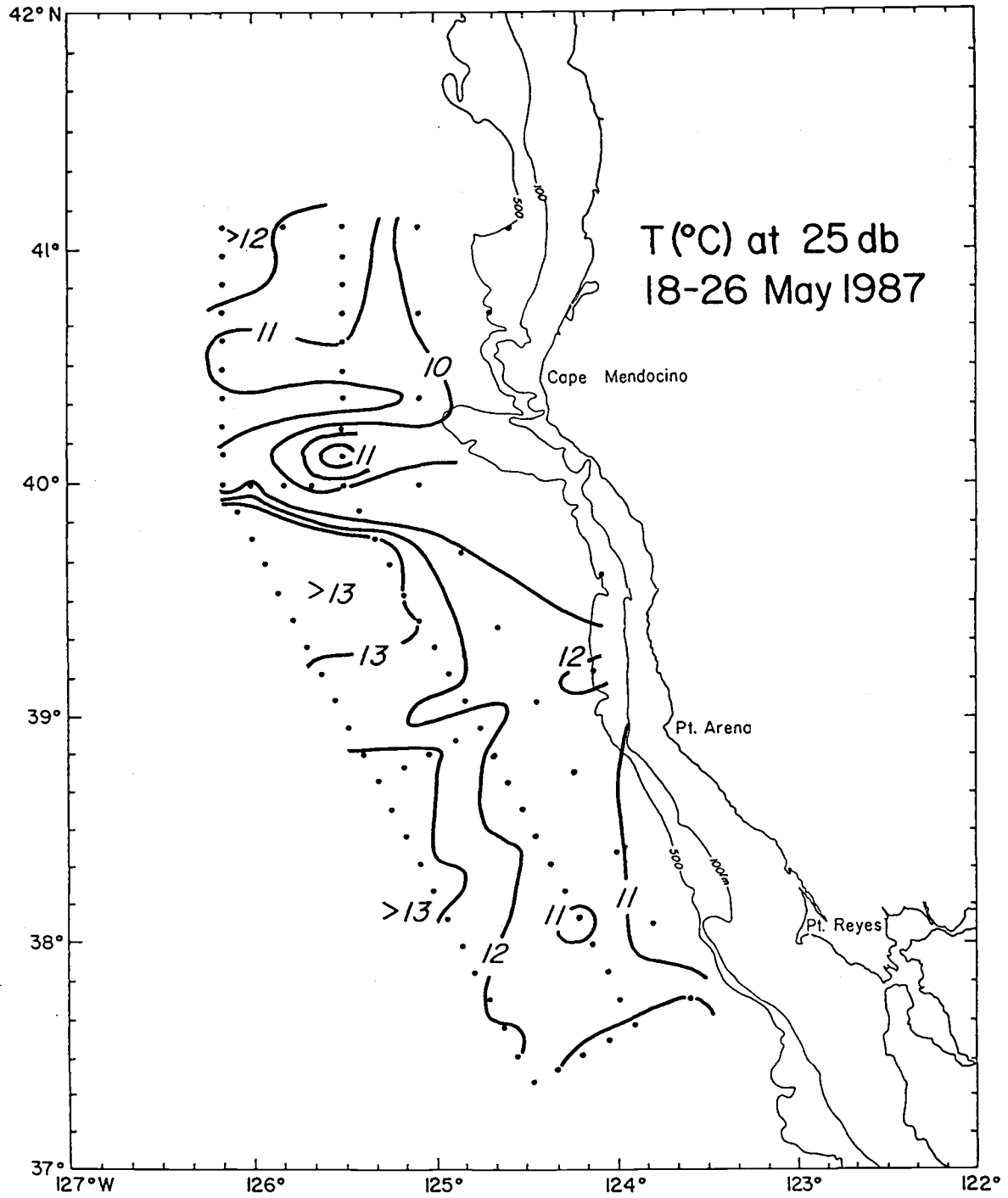


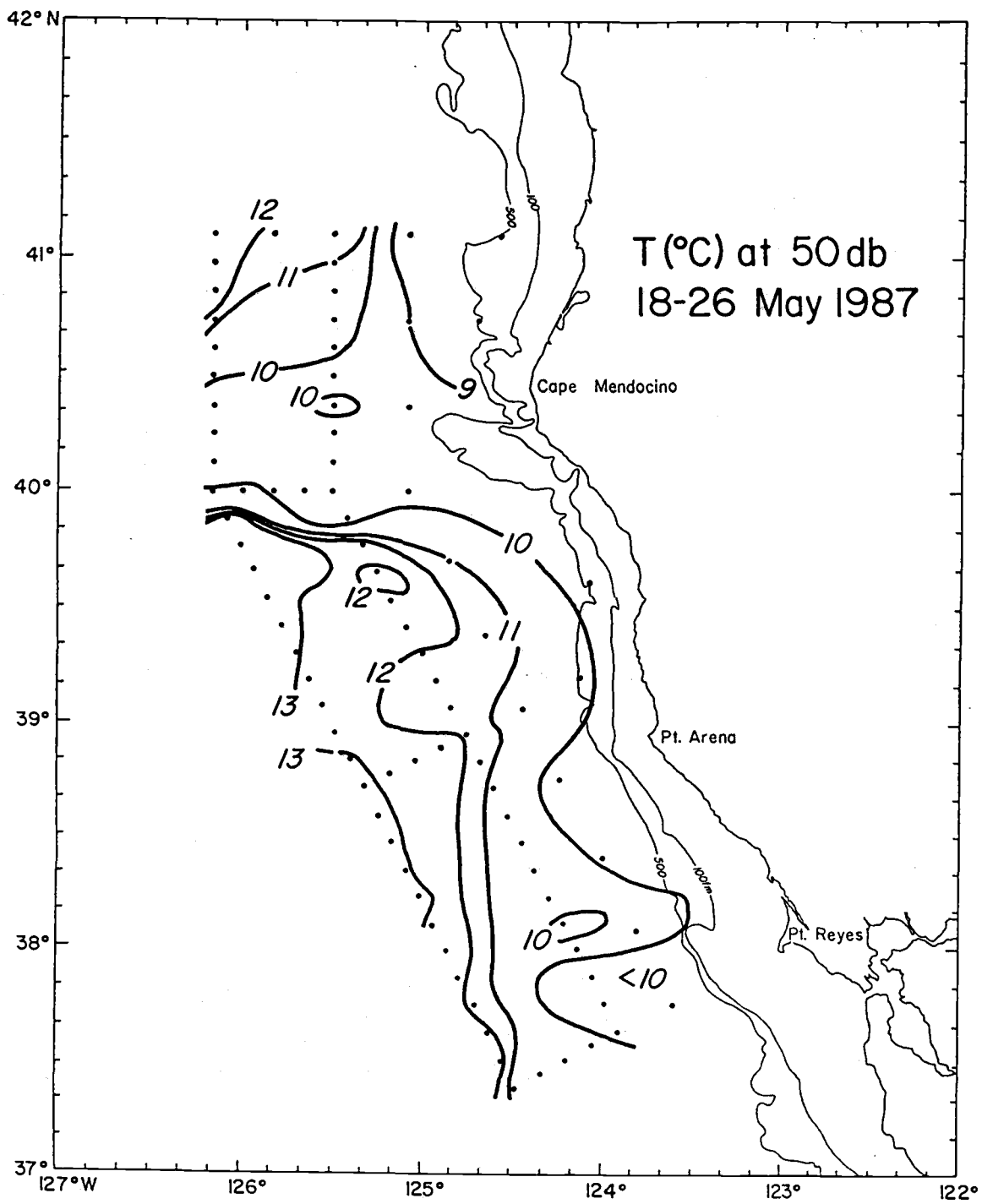


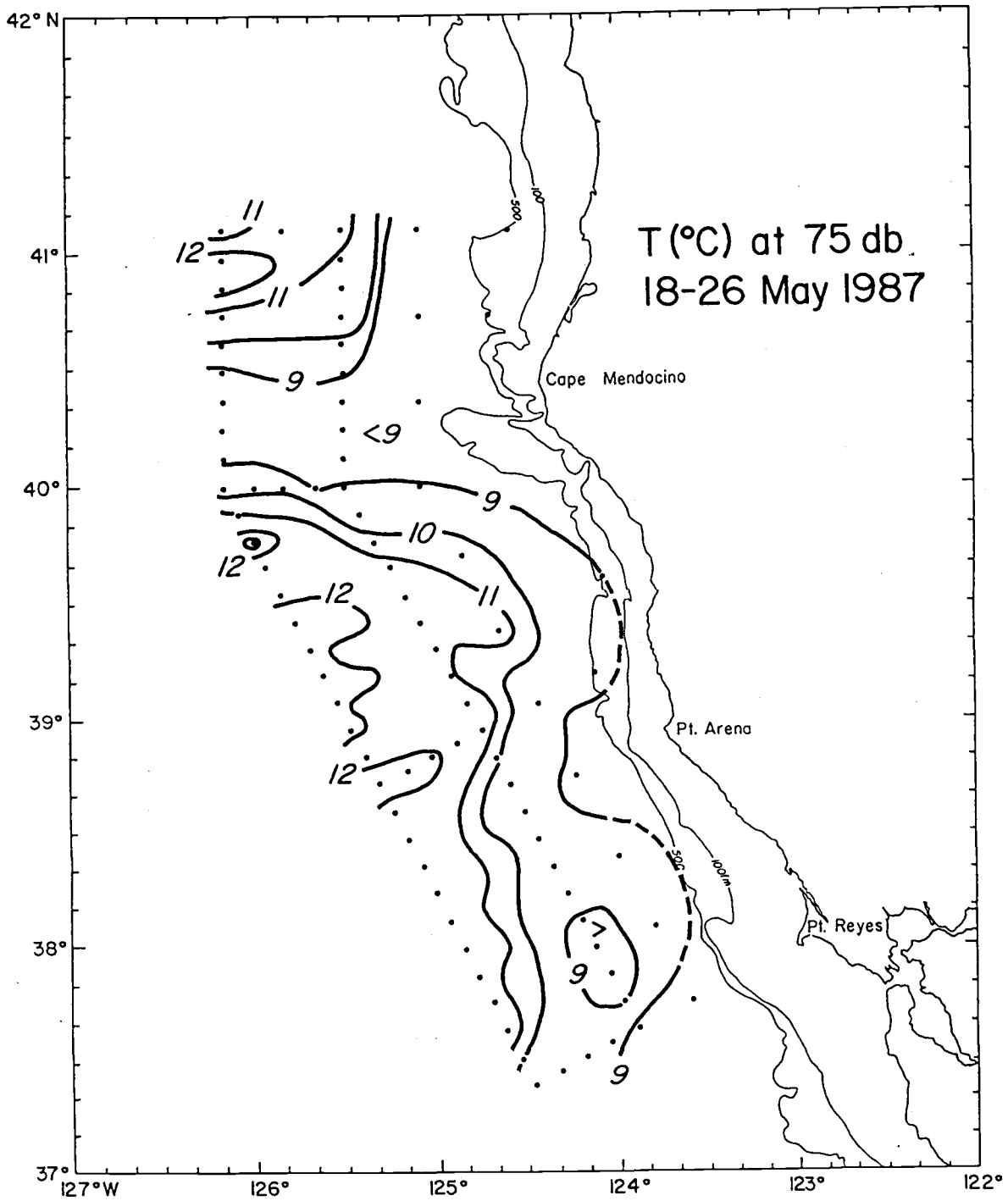


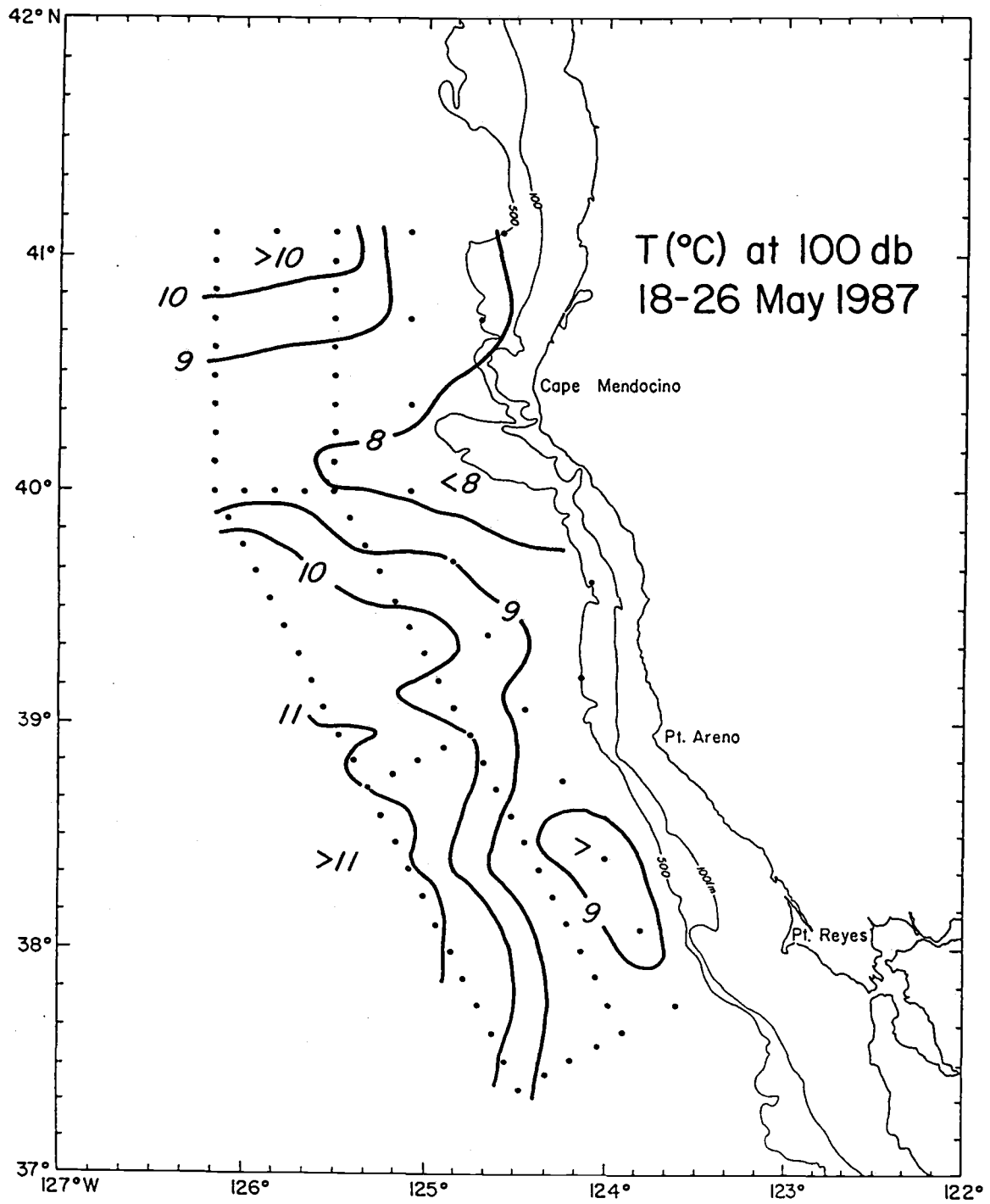
Maps at Selected Depths

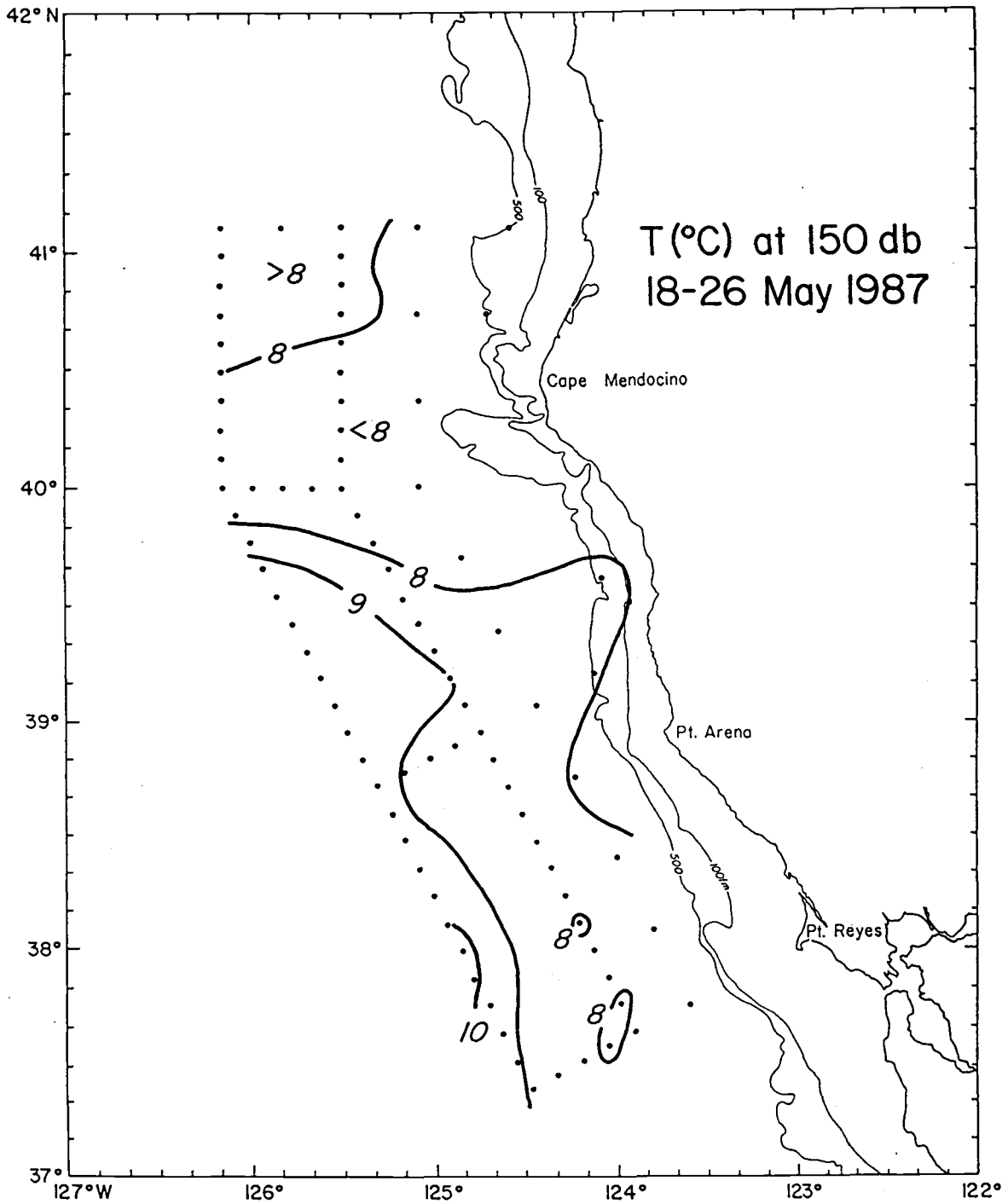


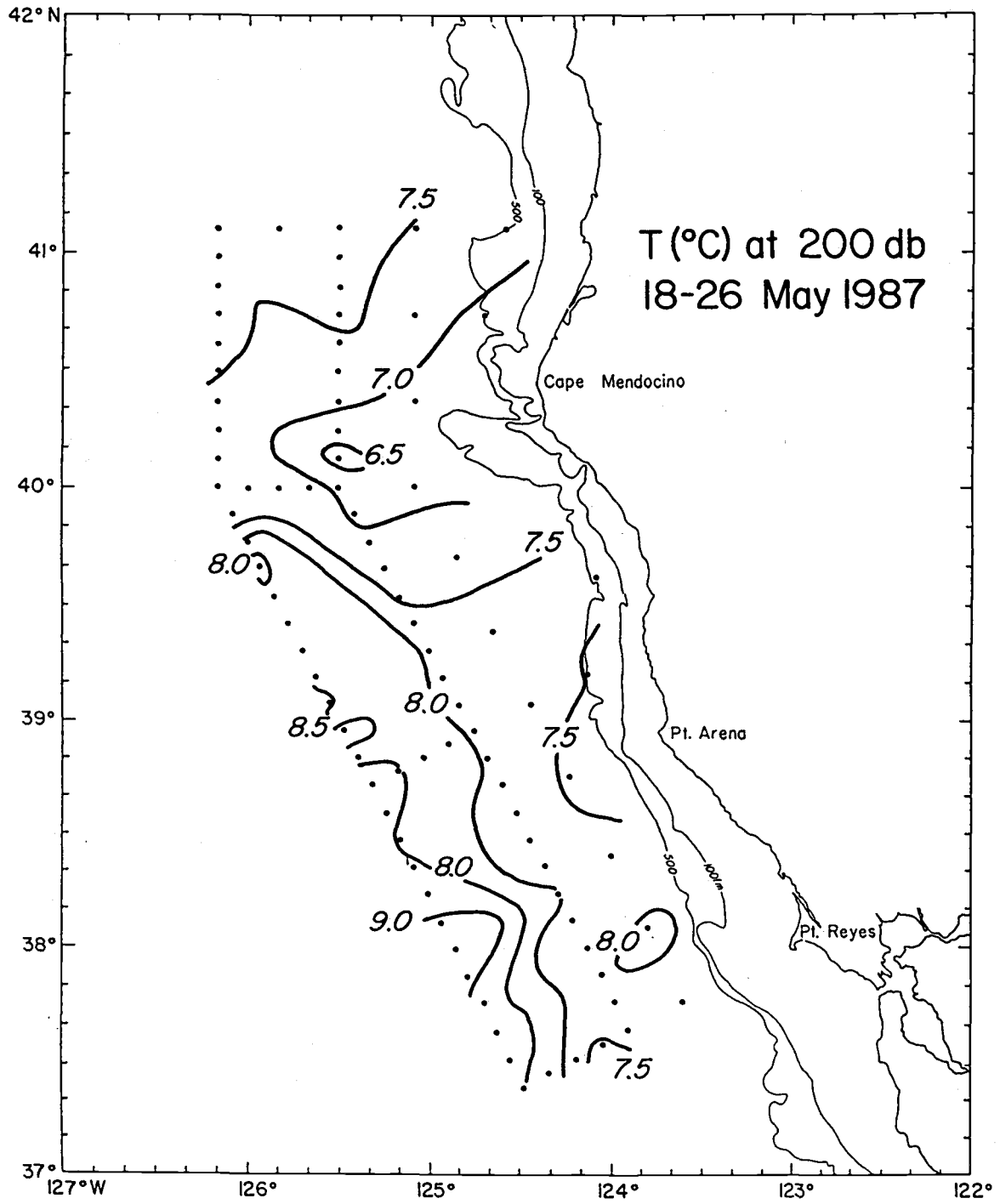


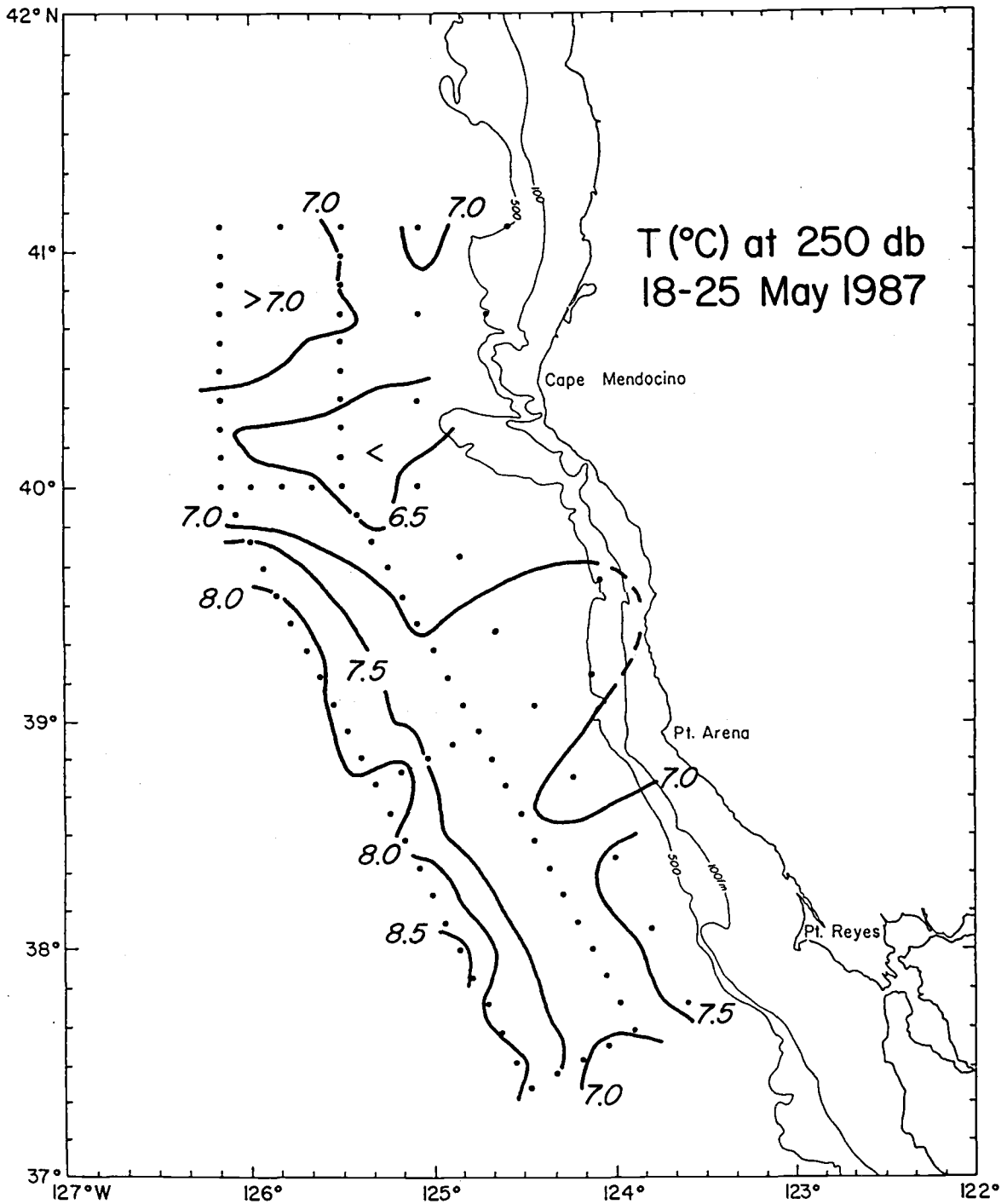


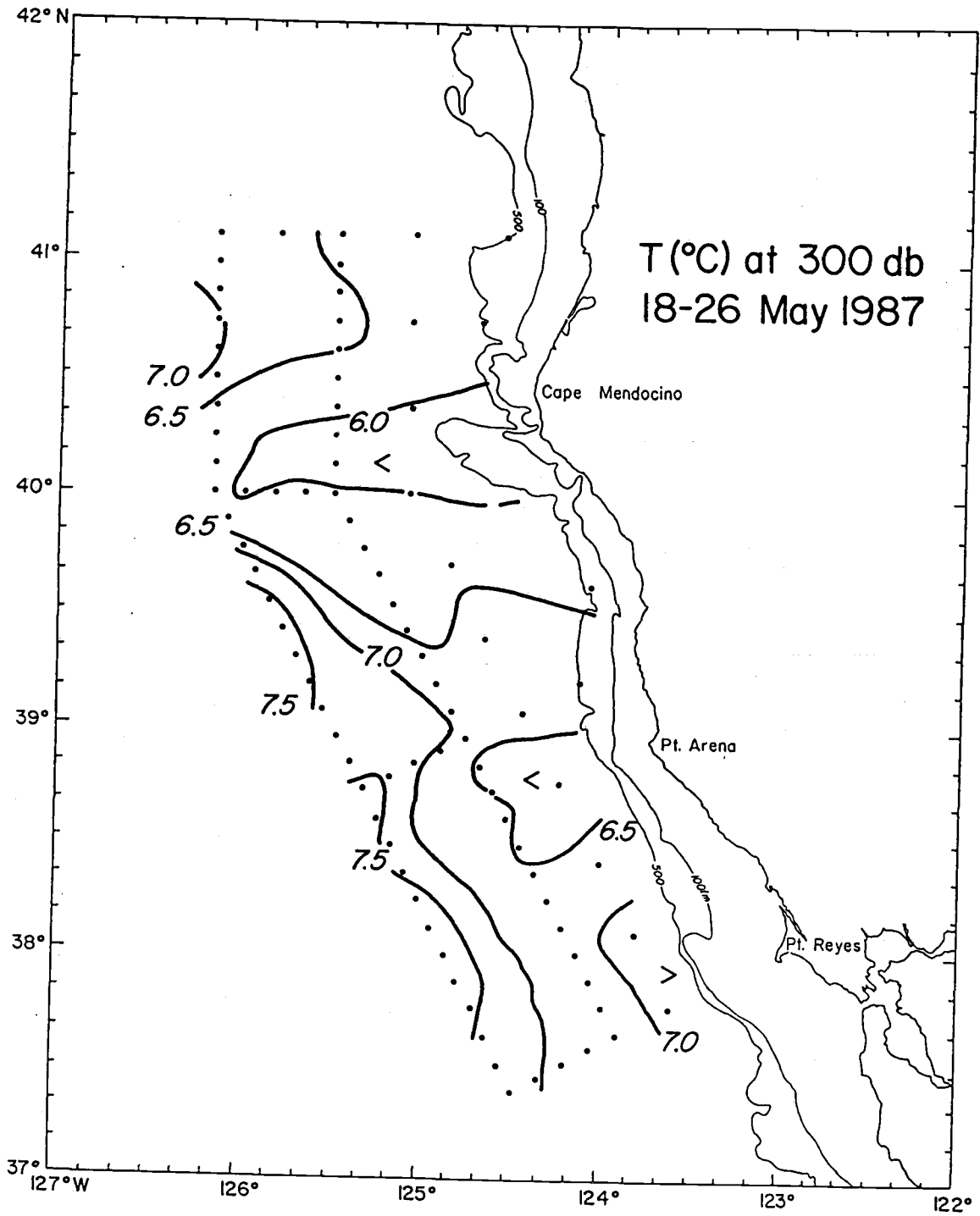


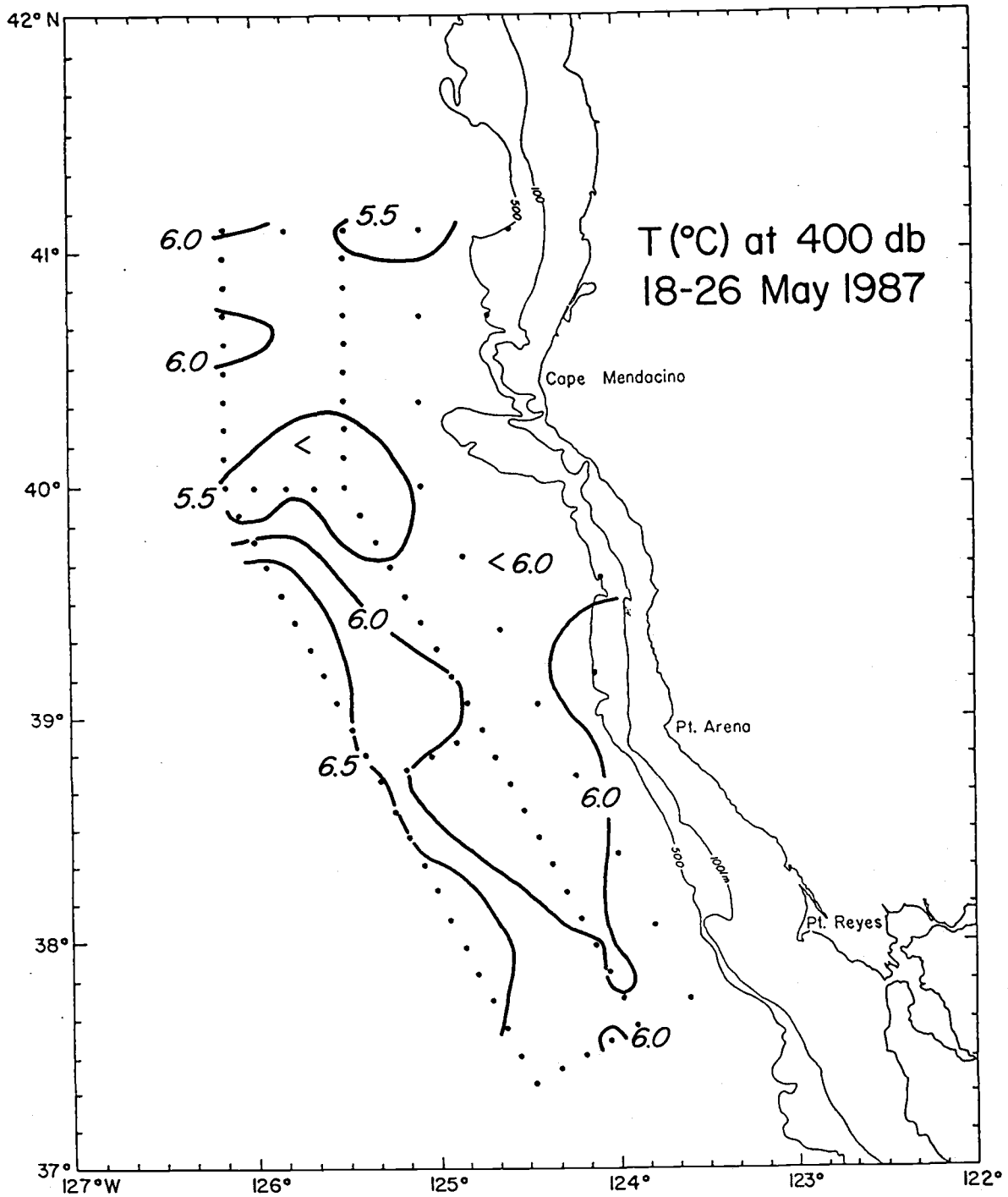


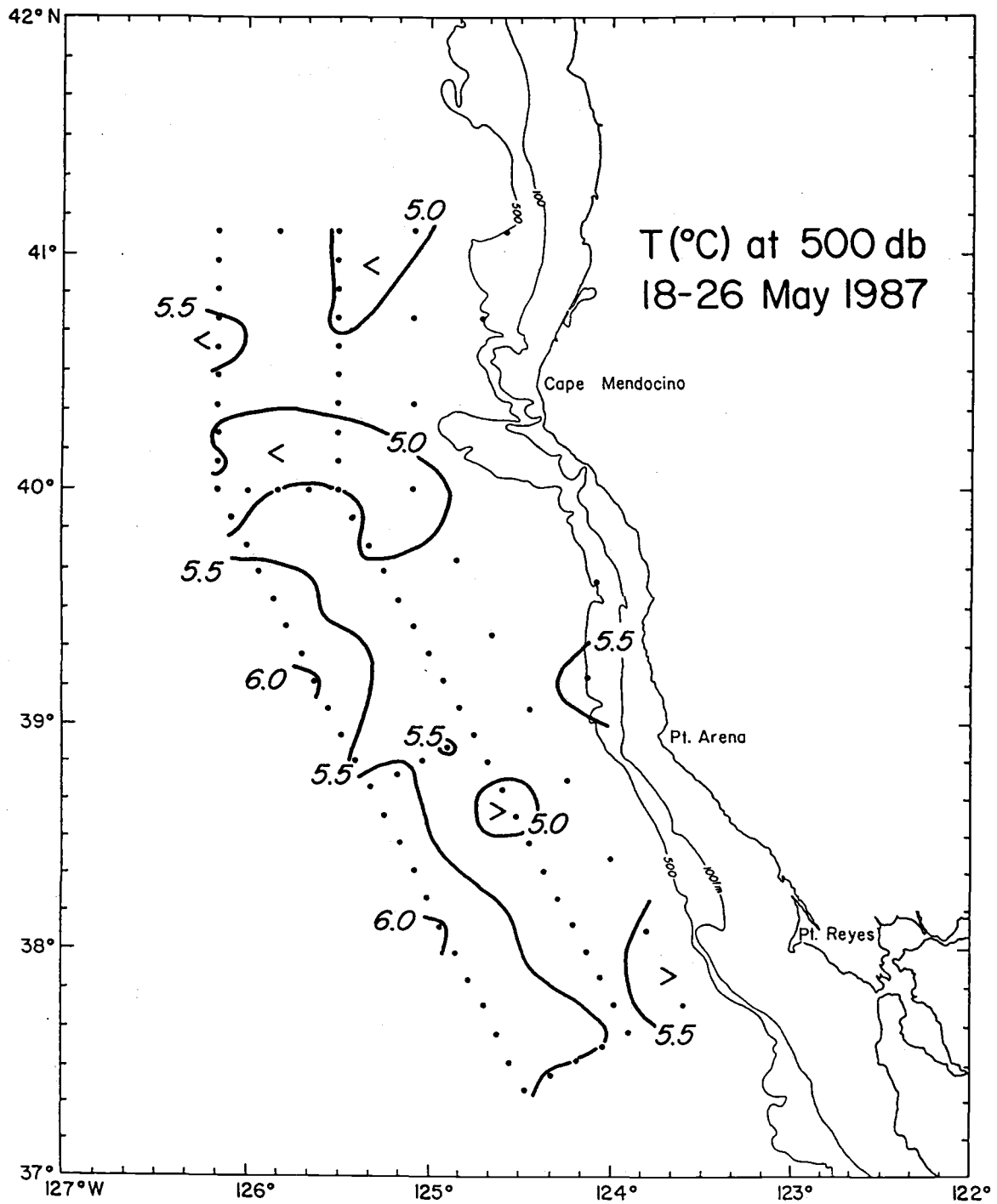


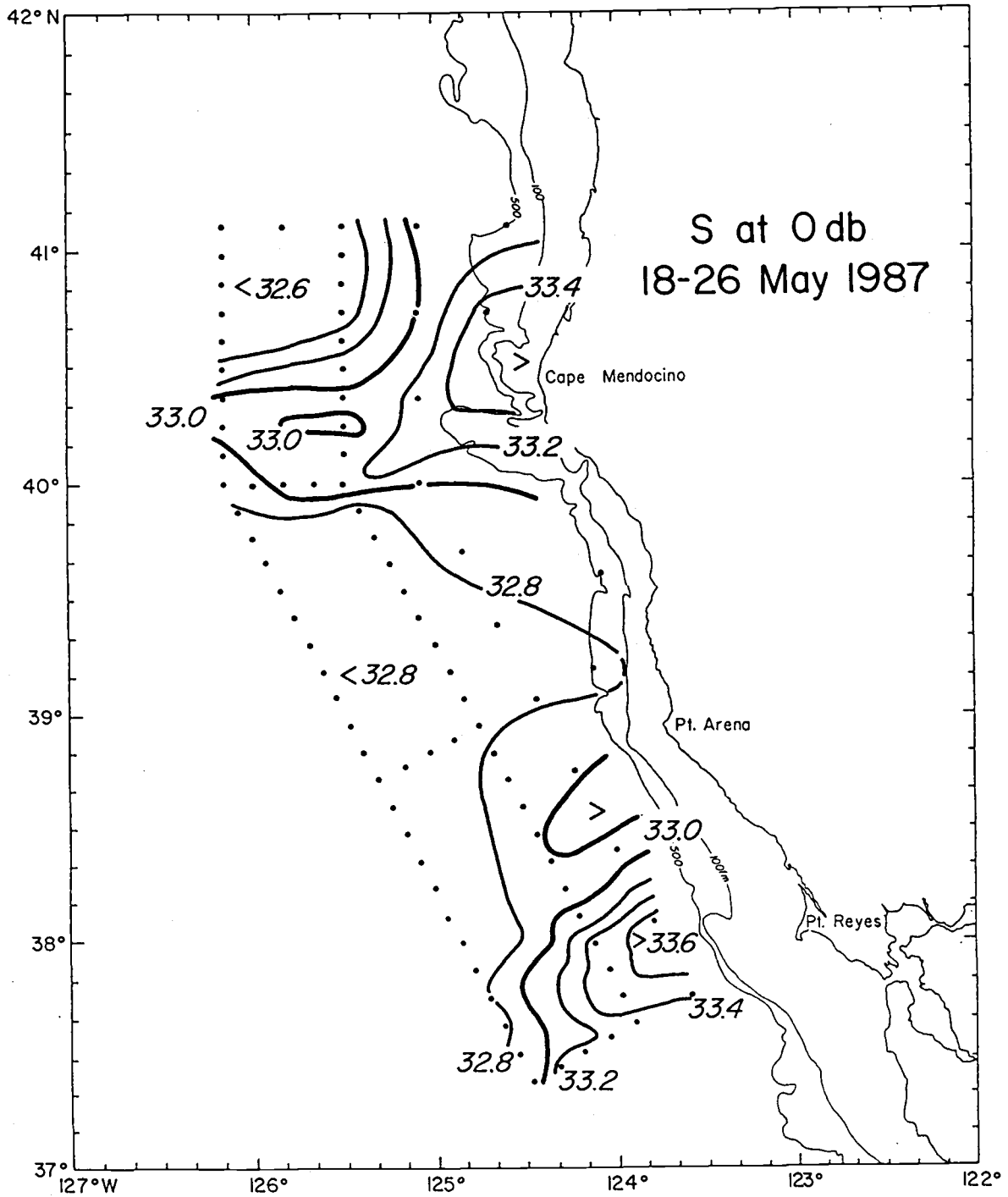


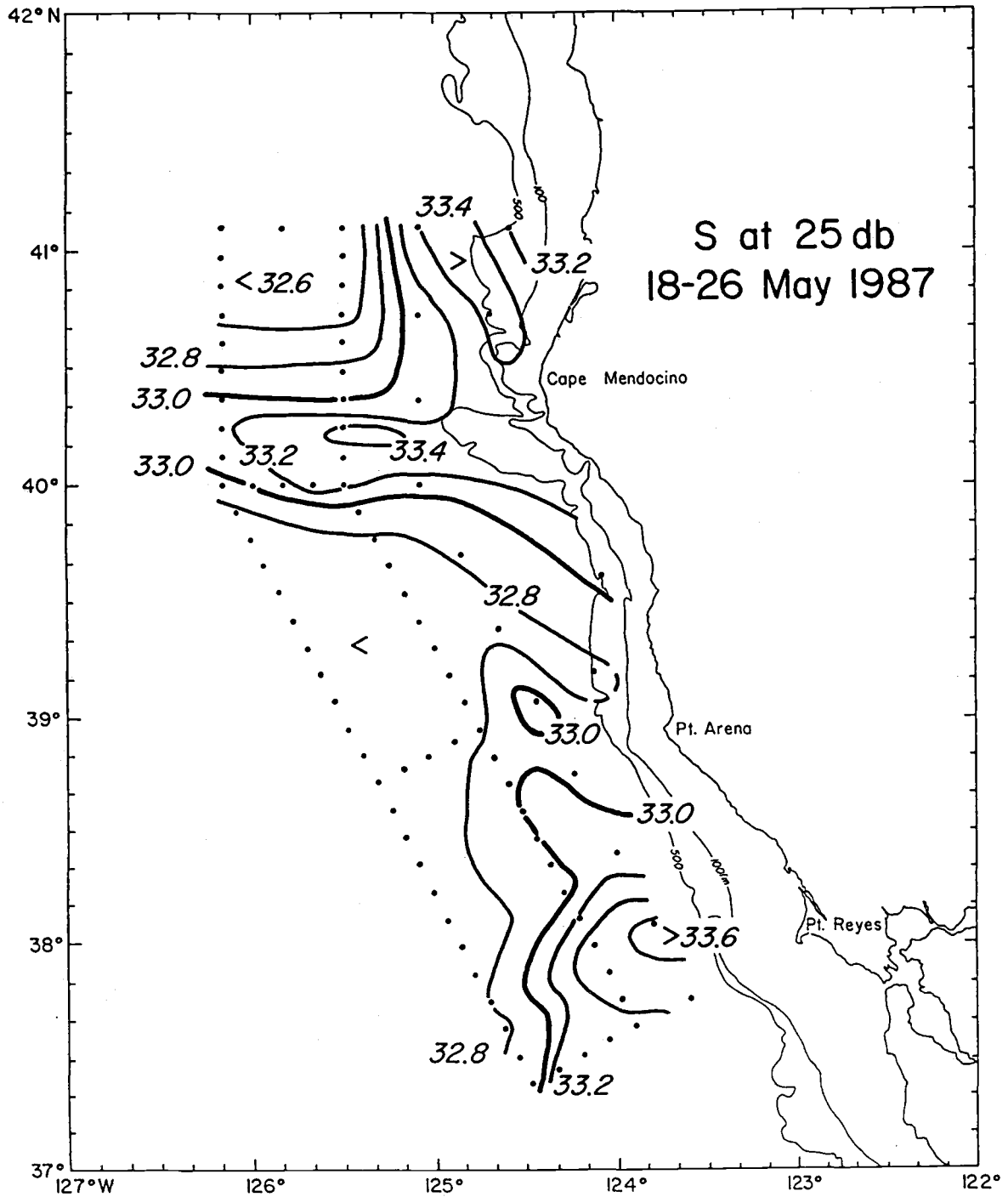


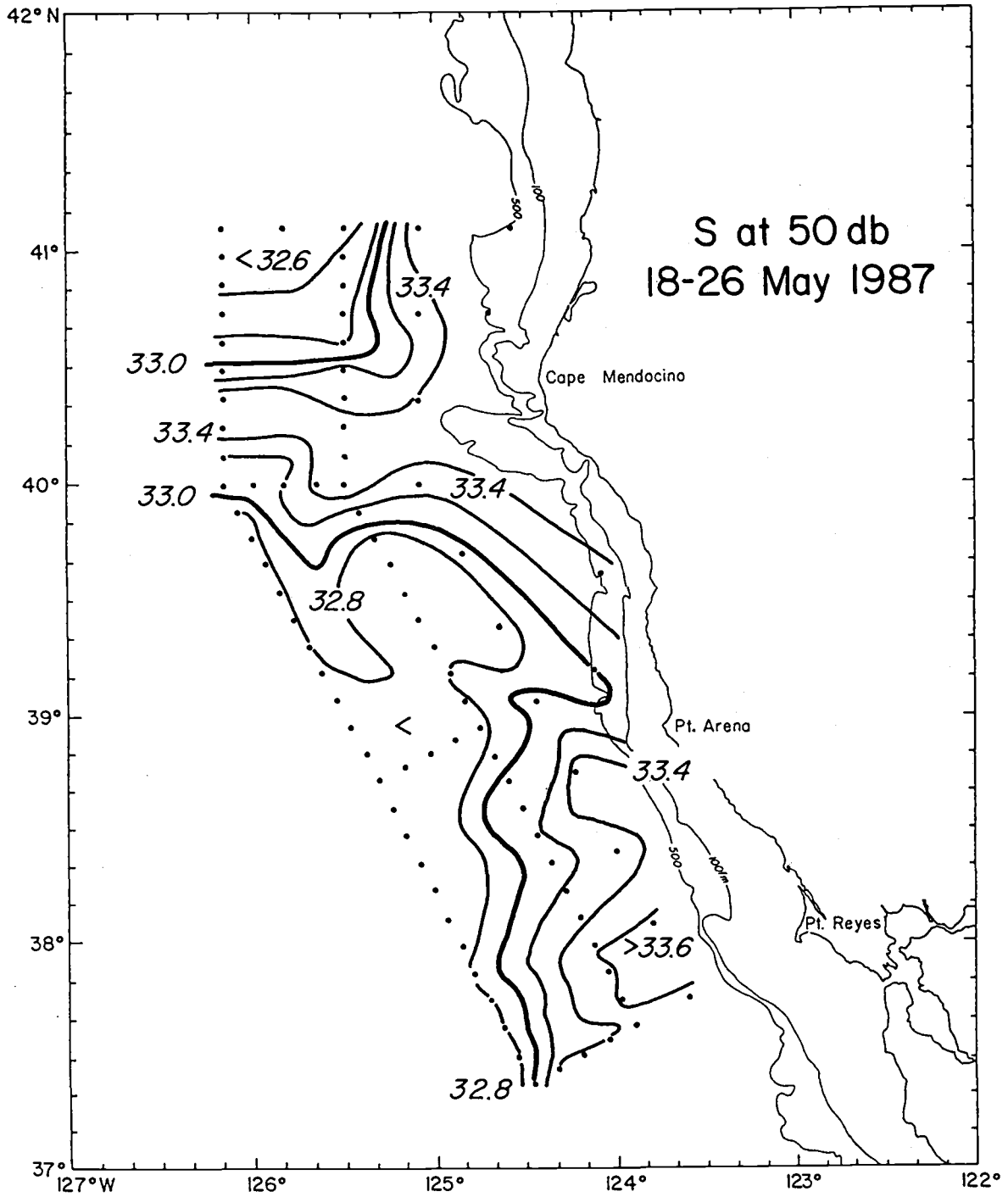


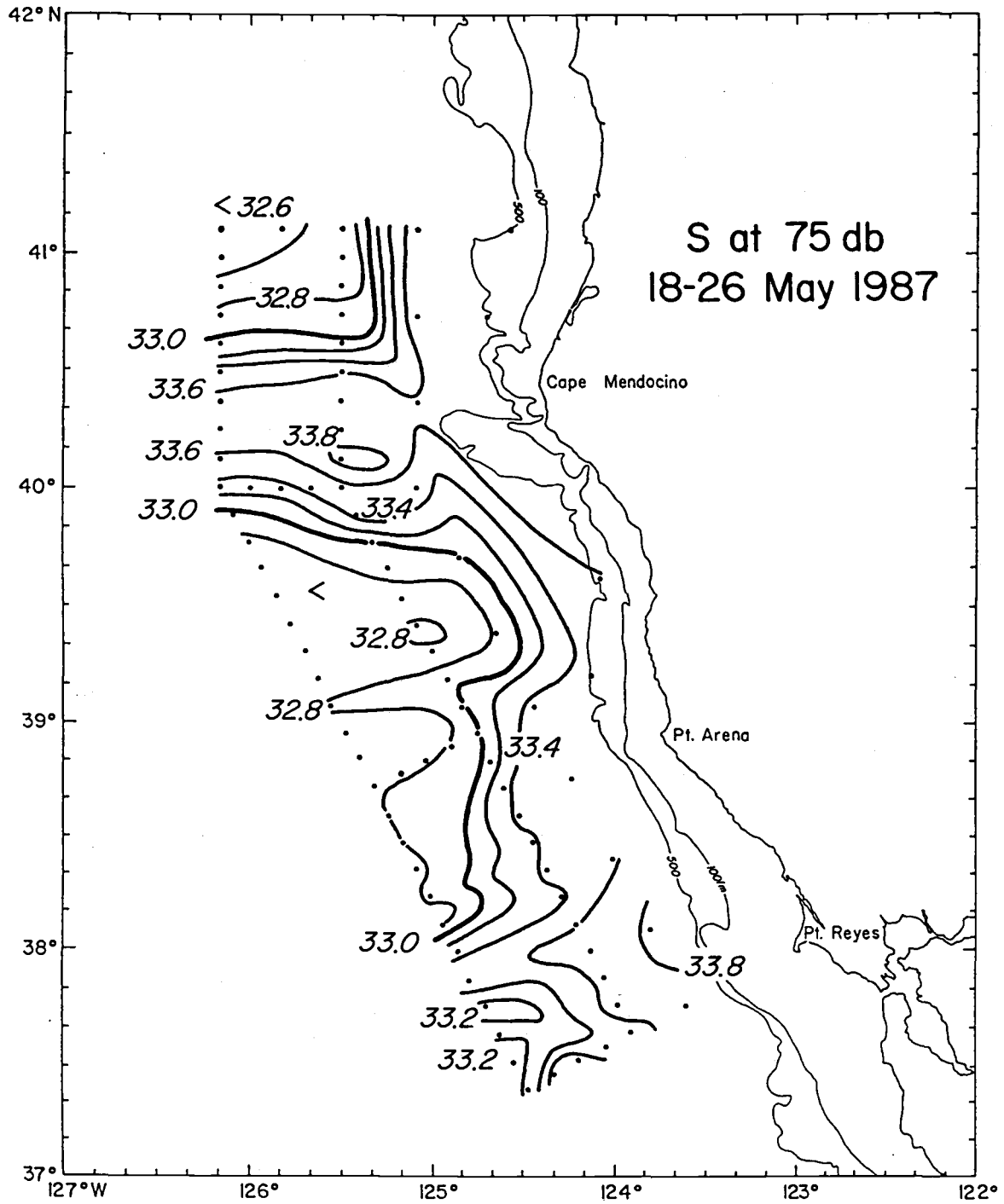


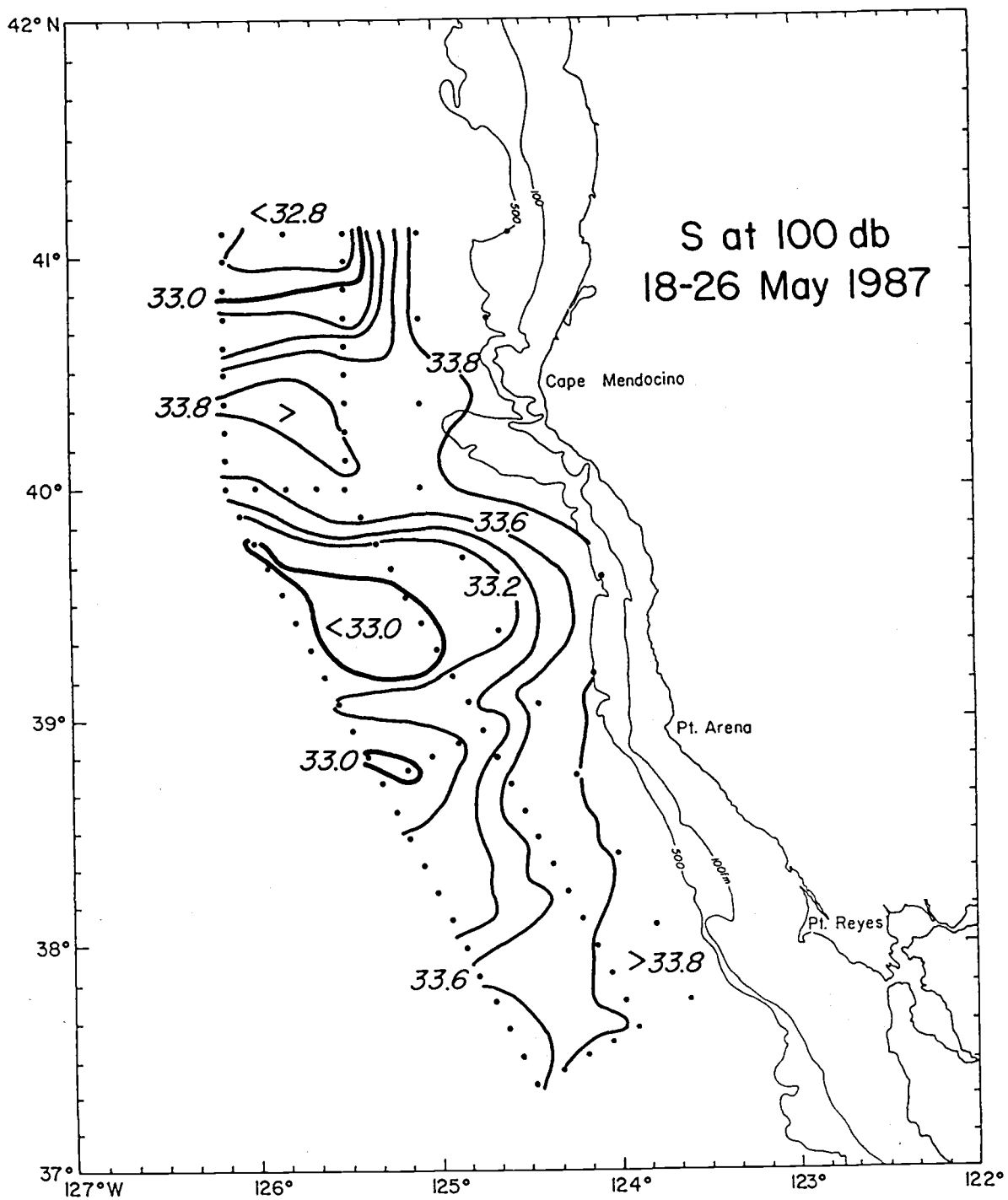


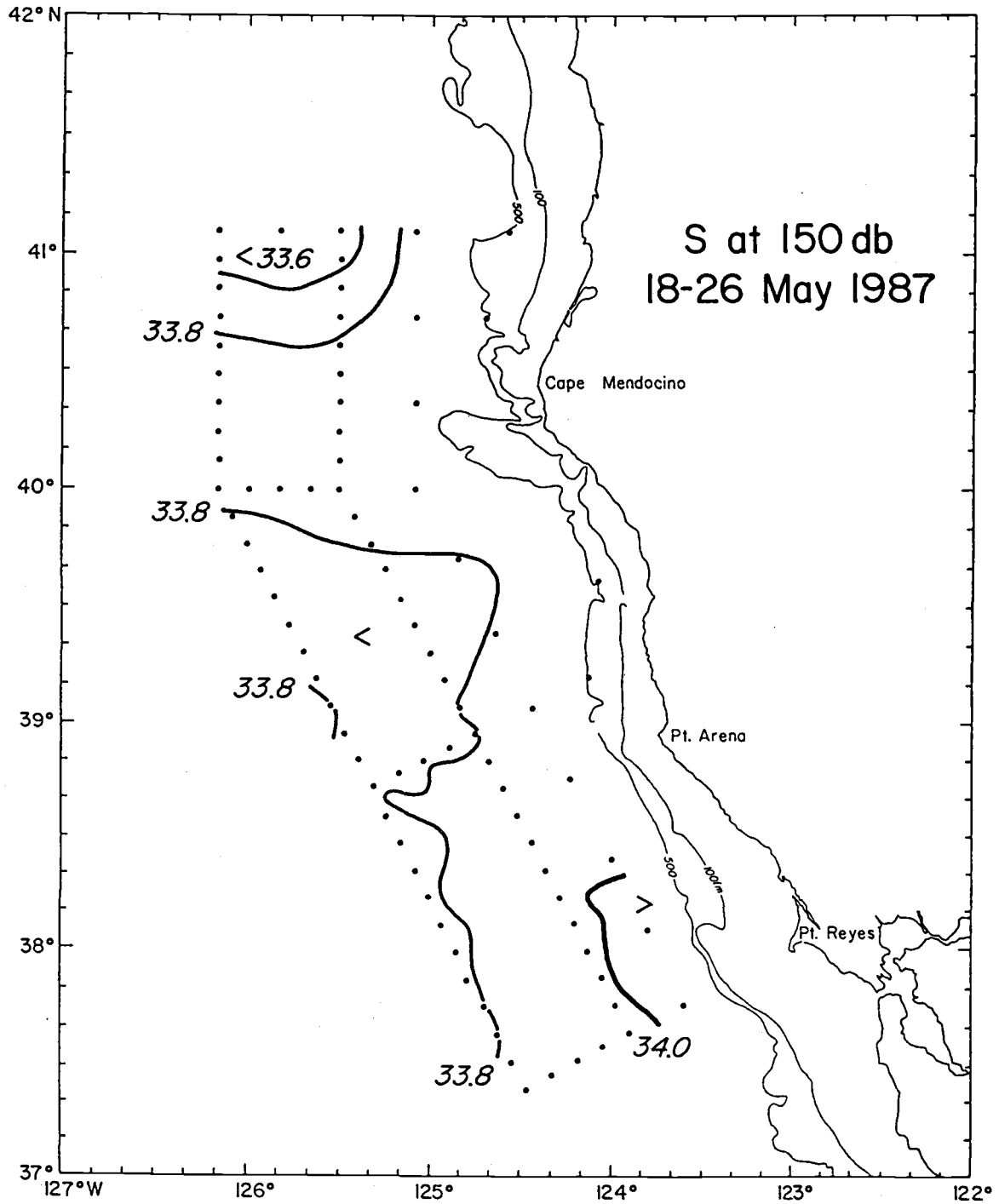


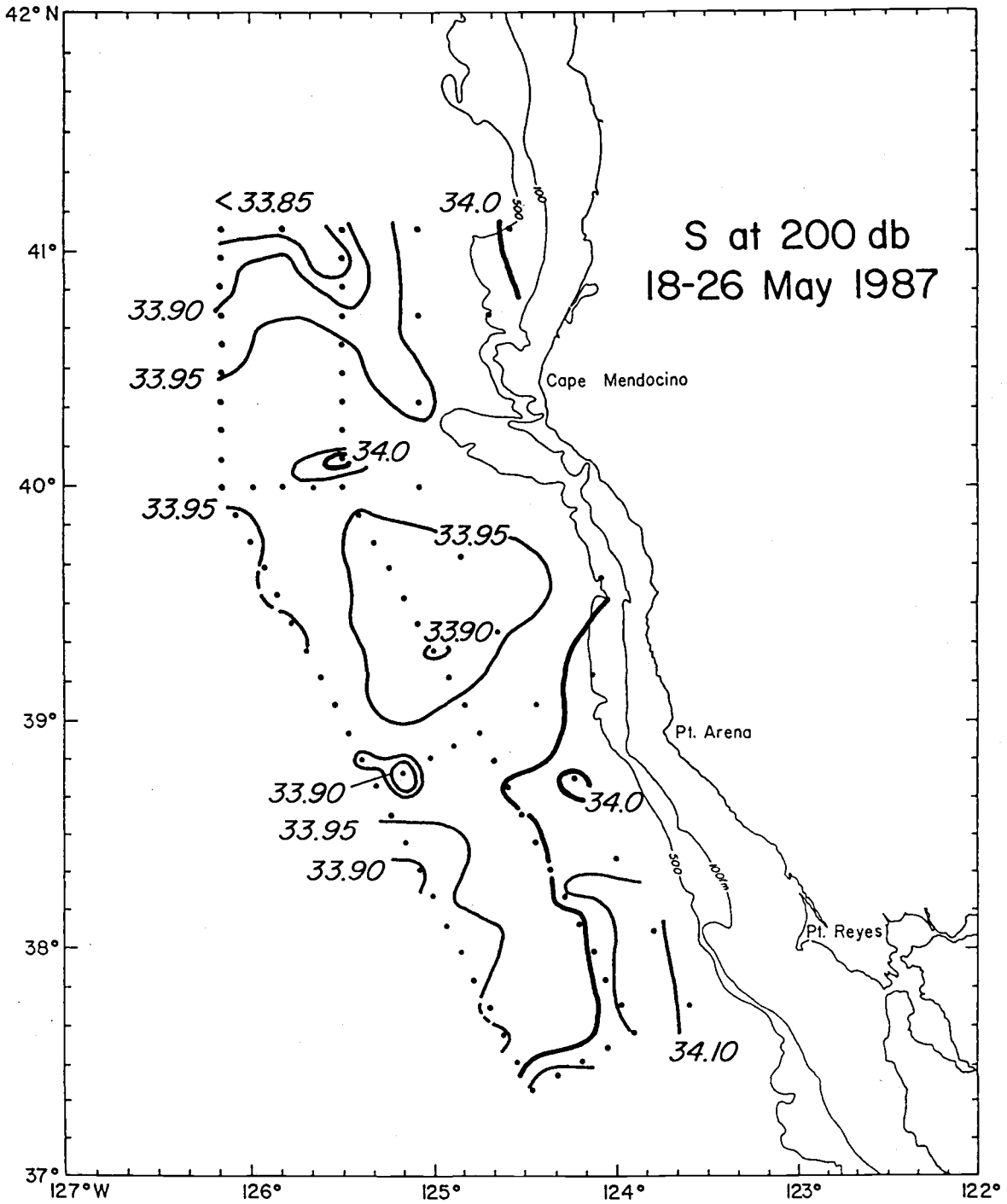


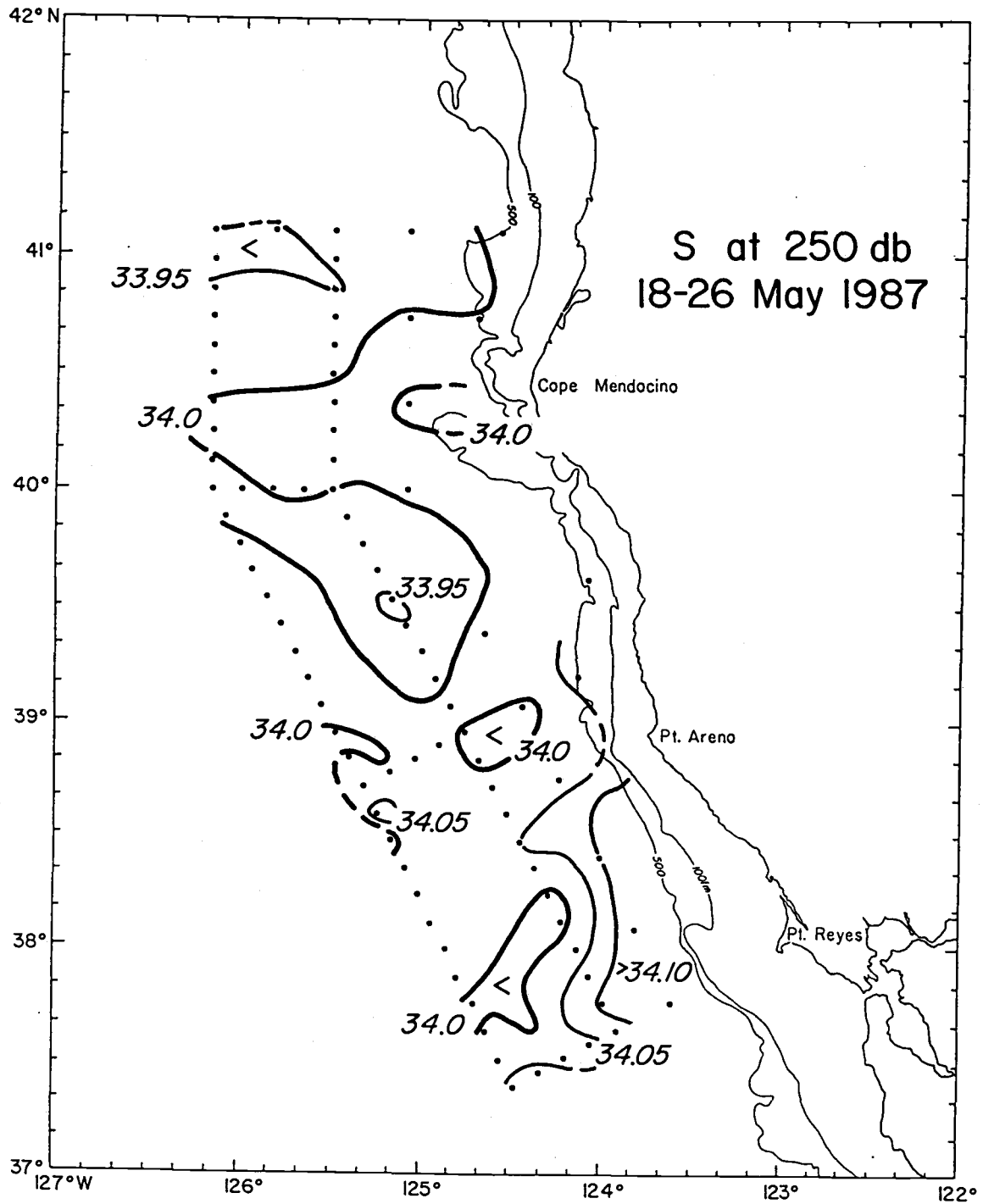


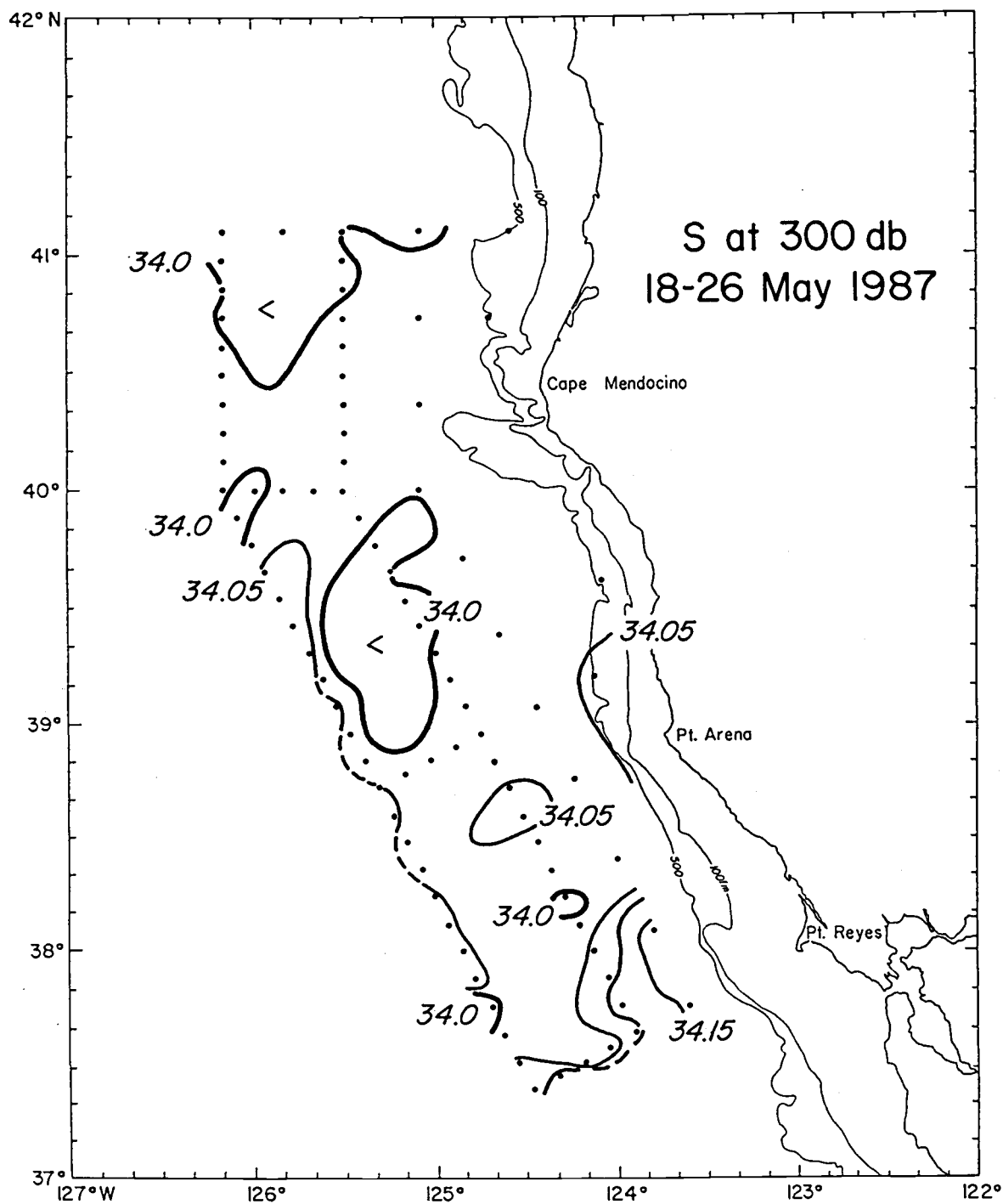


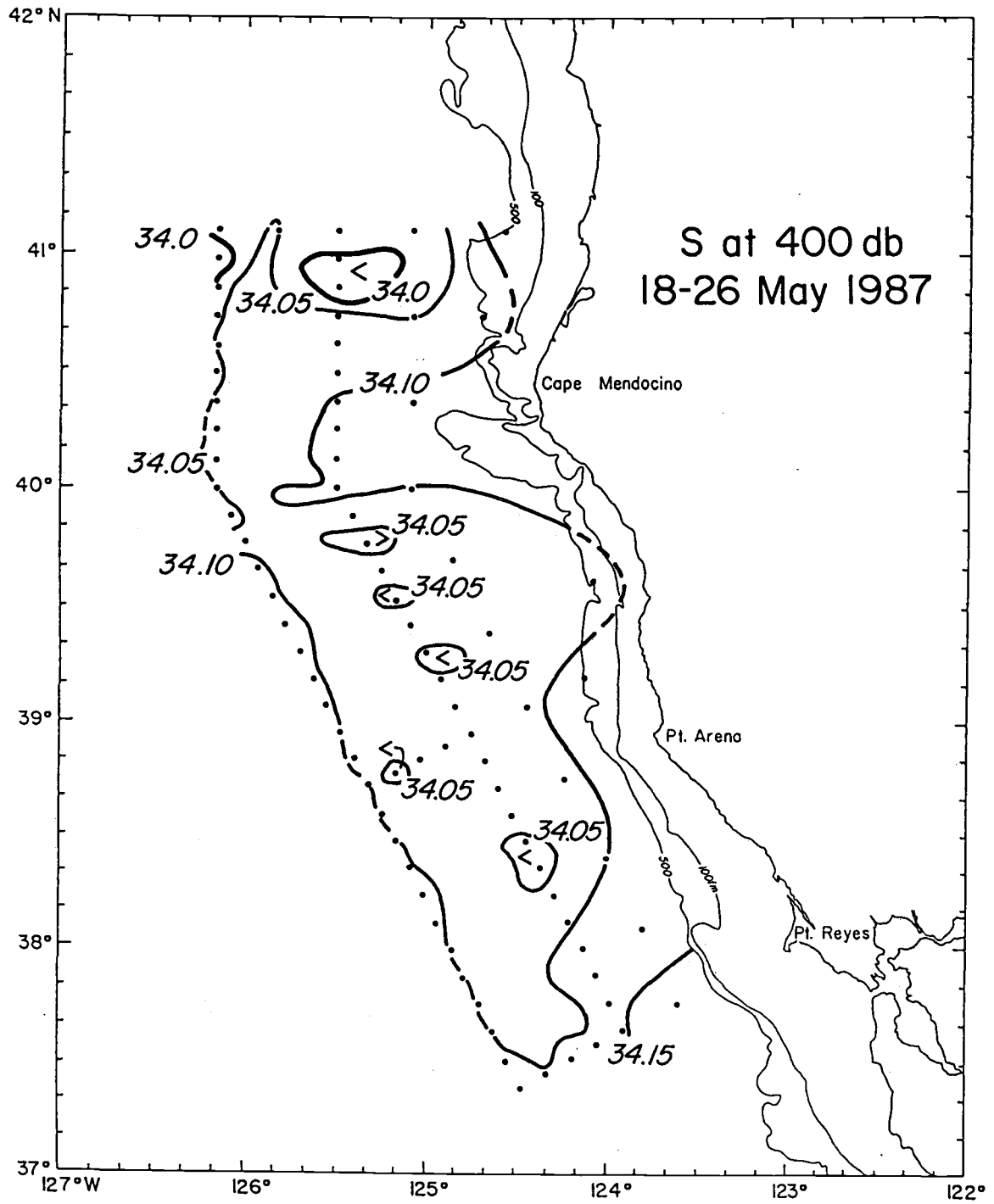


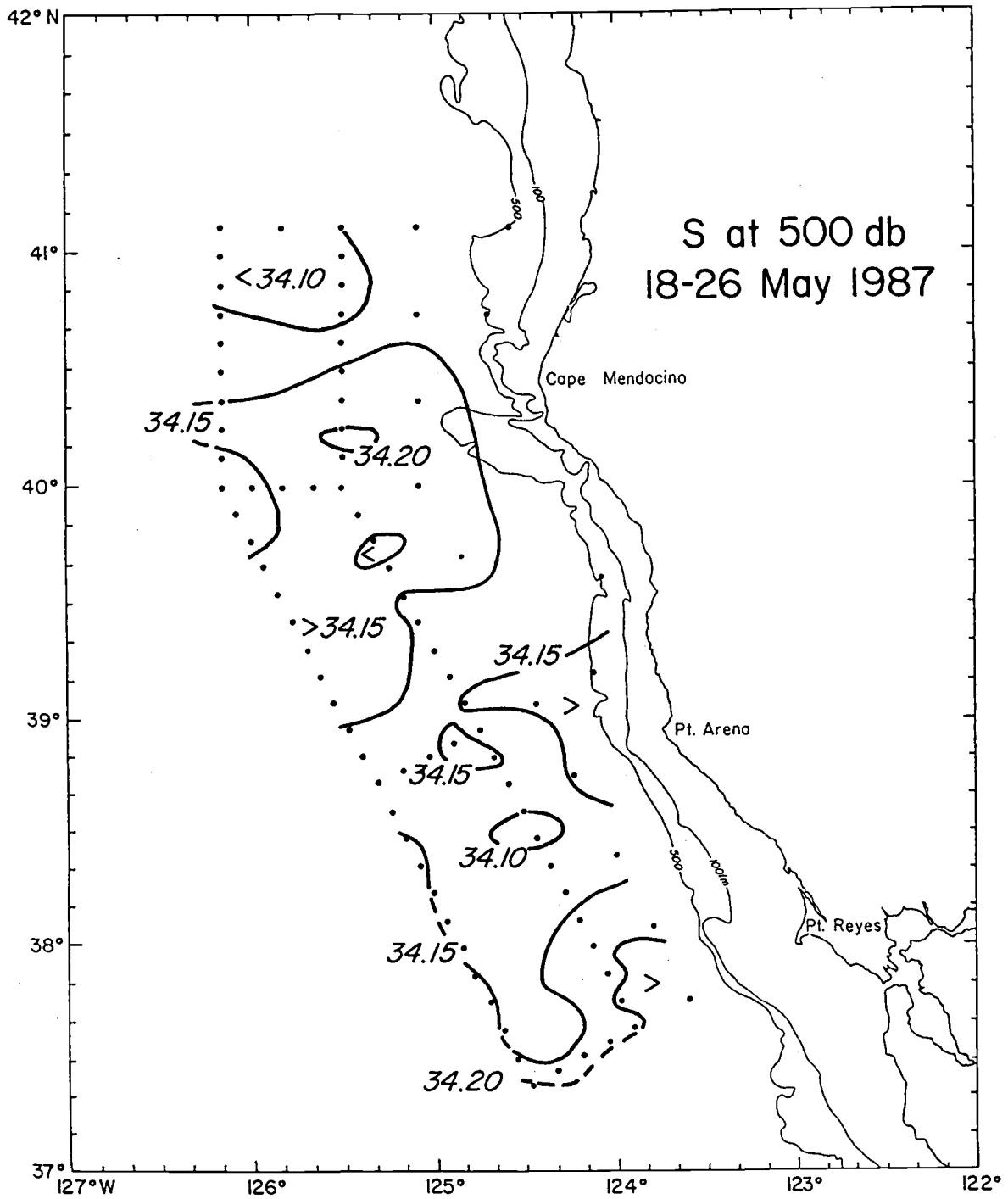


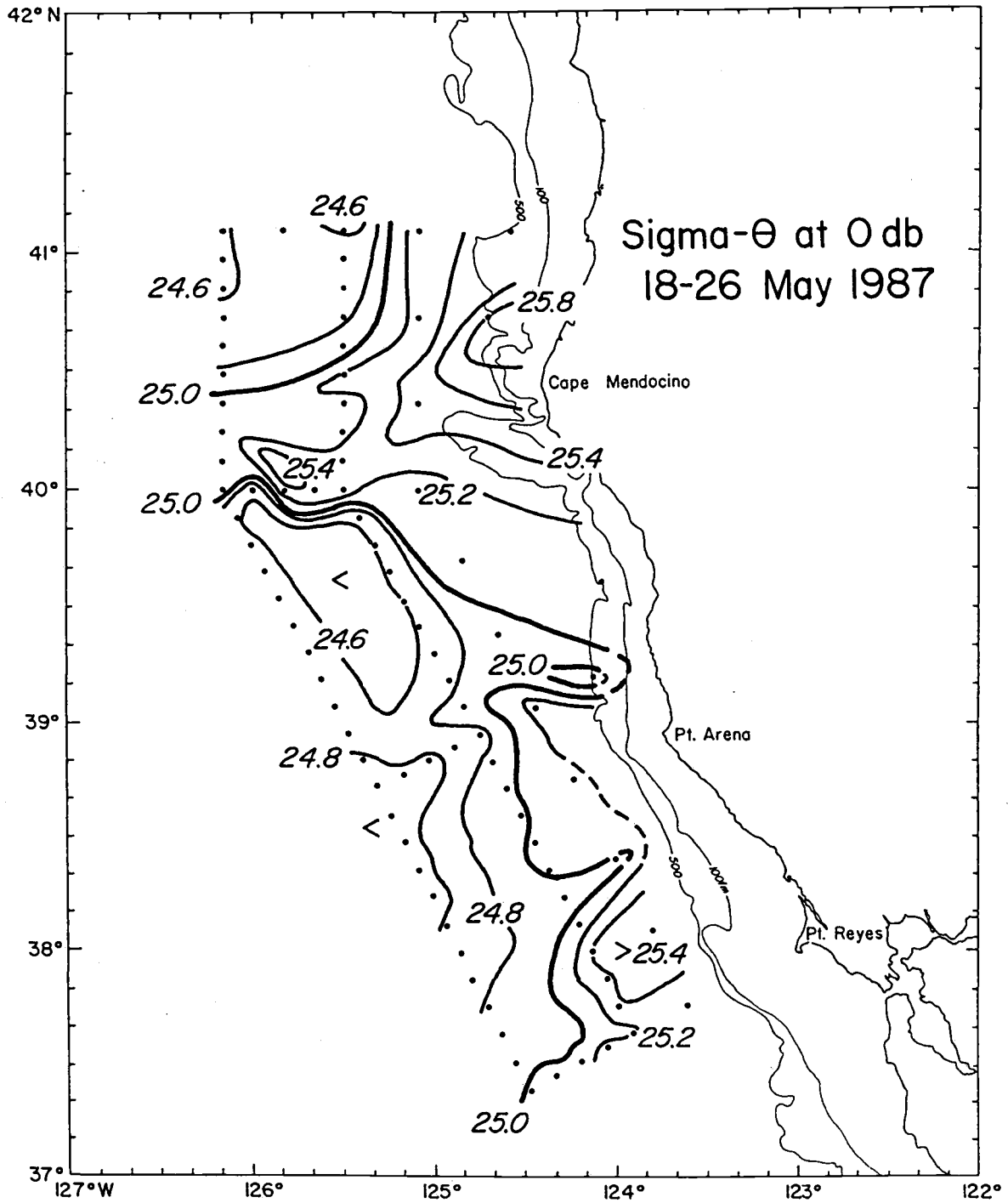


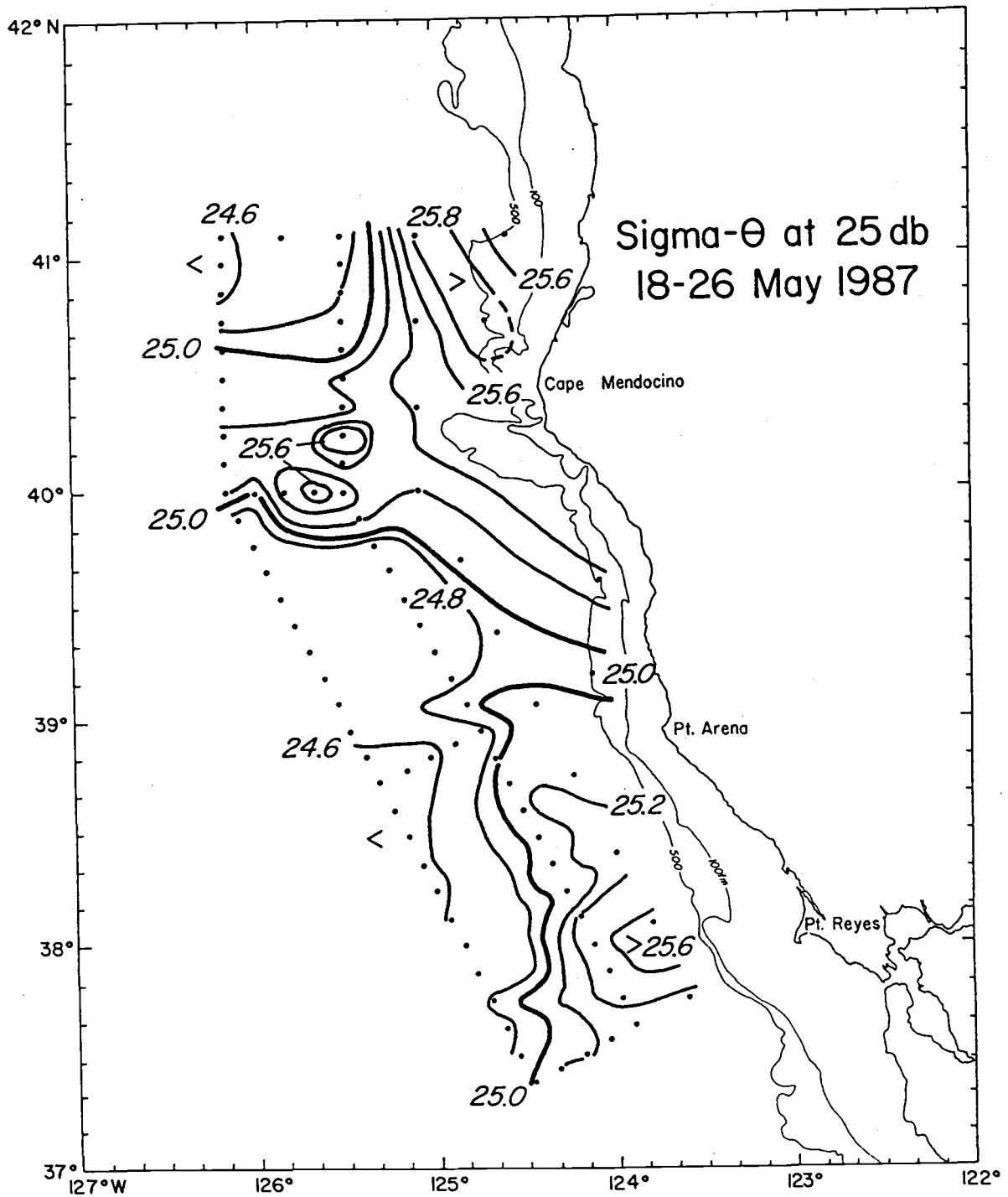


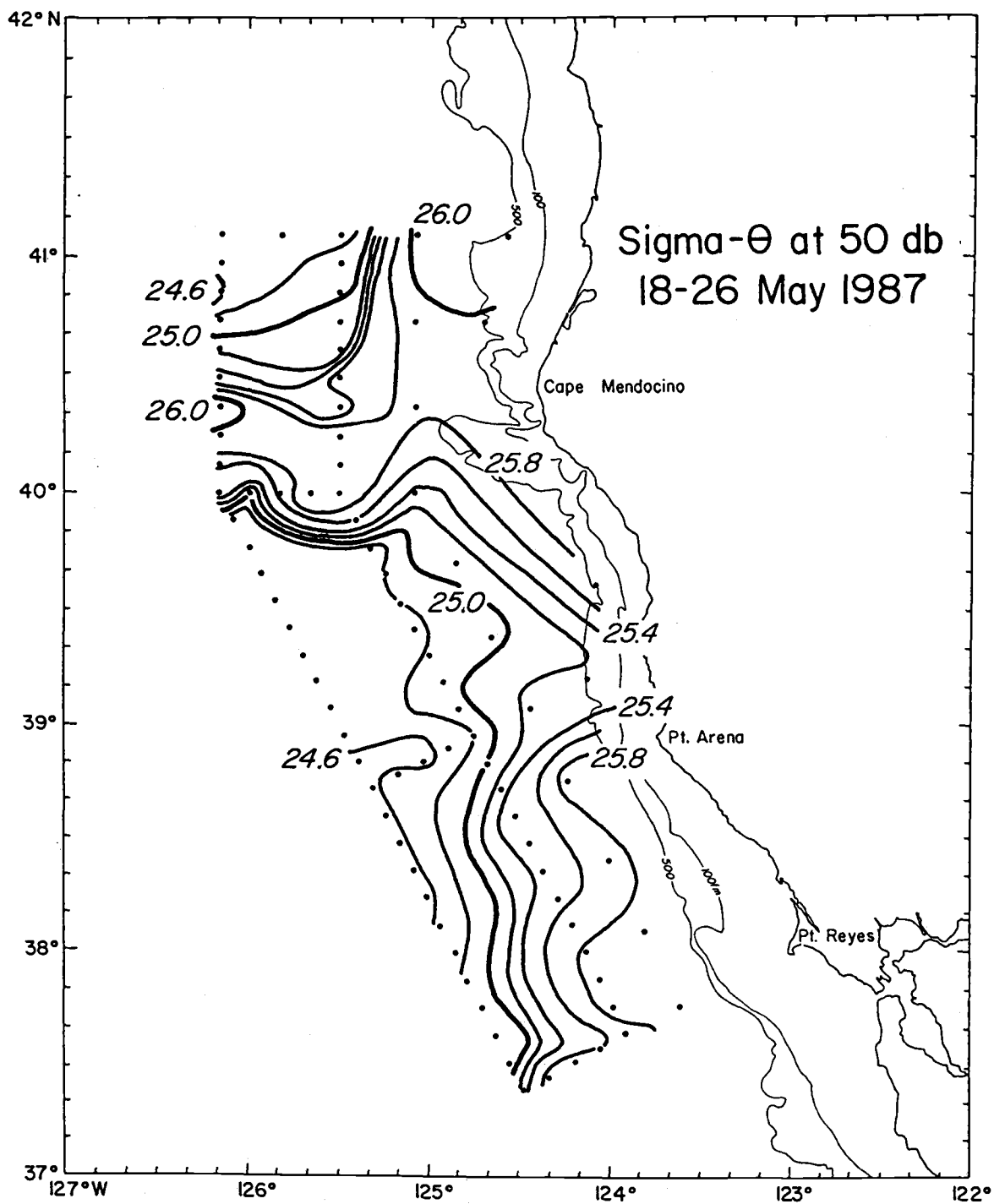


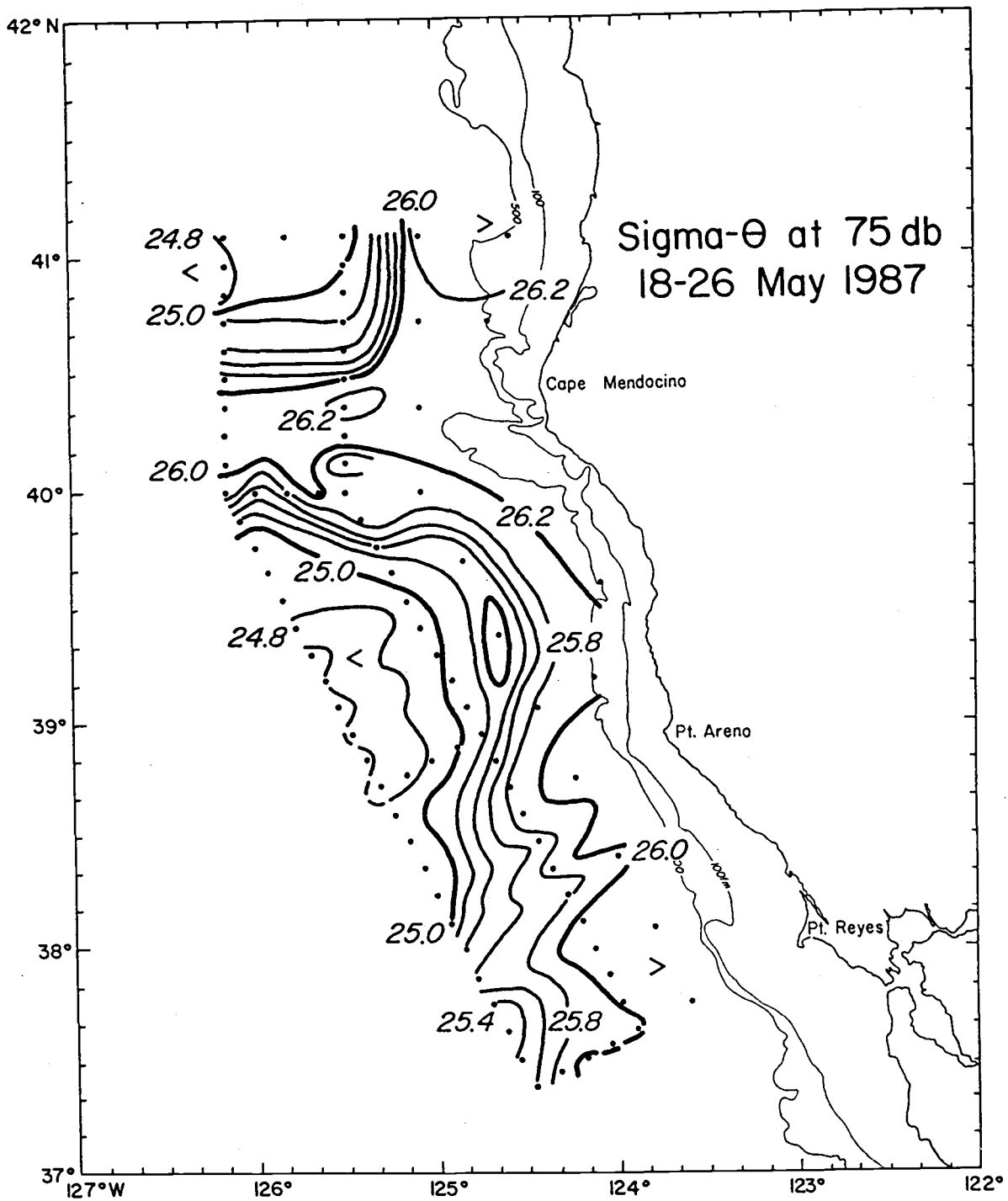


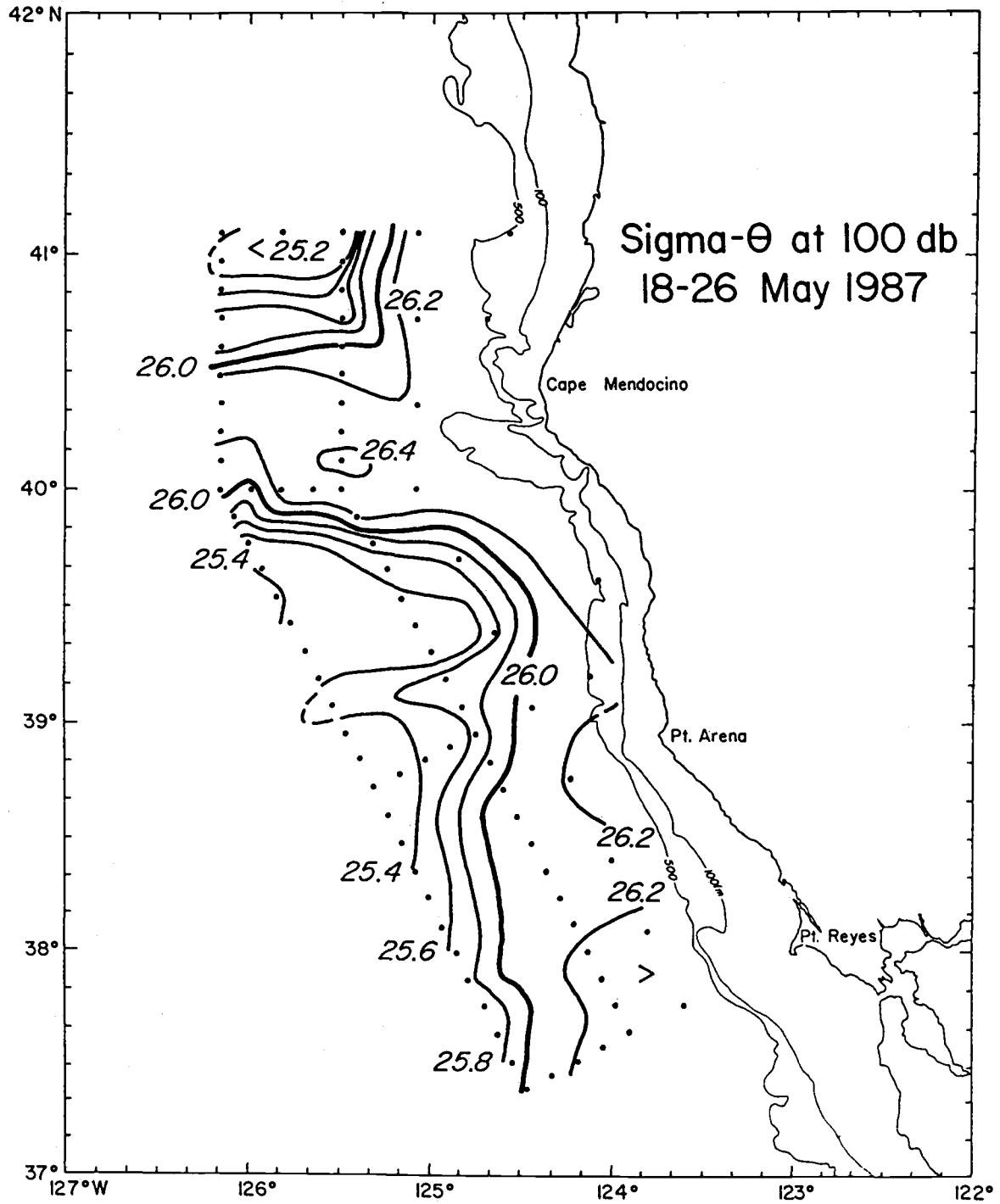


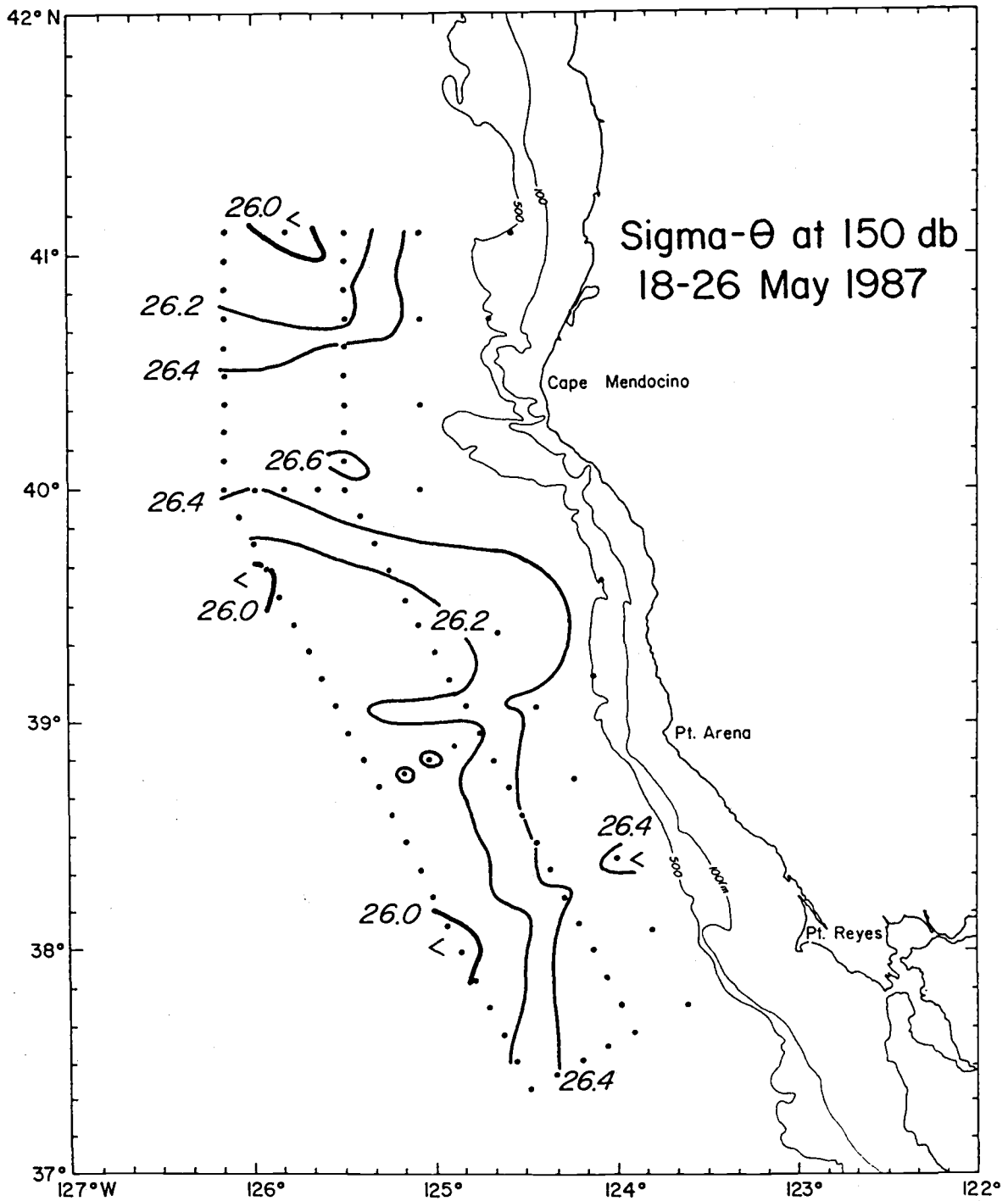


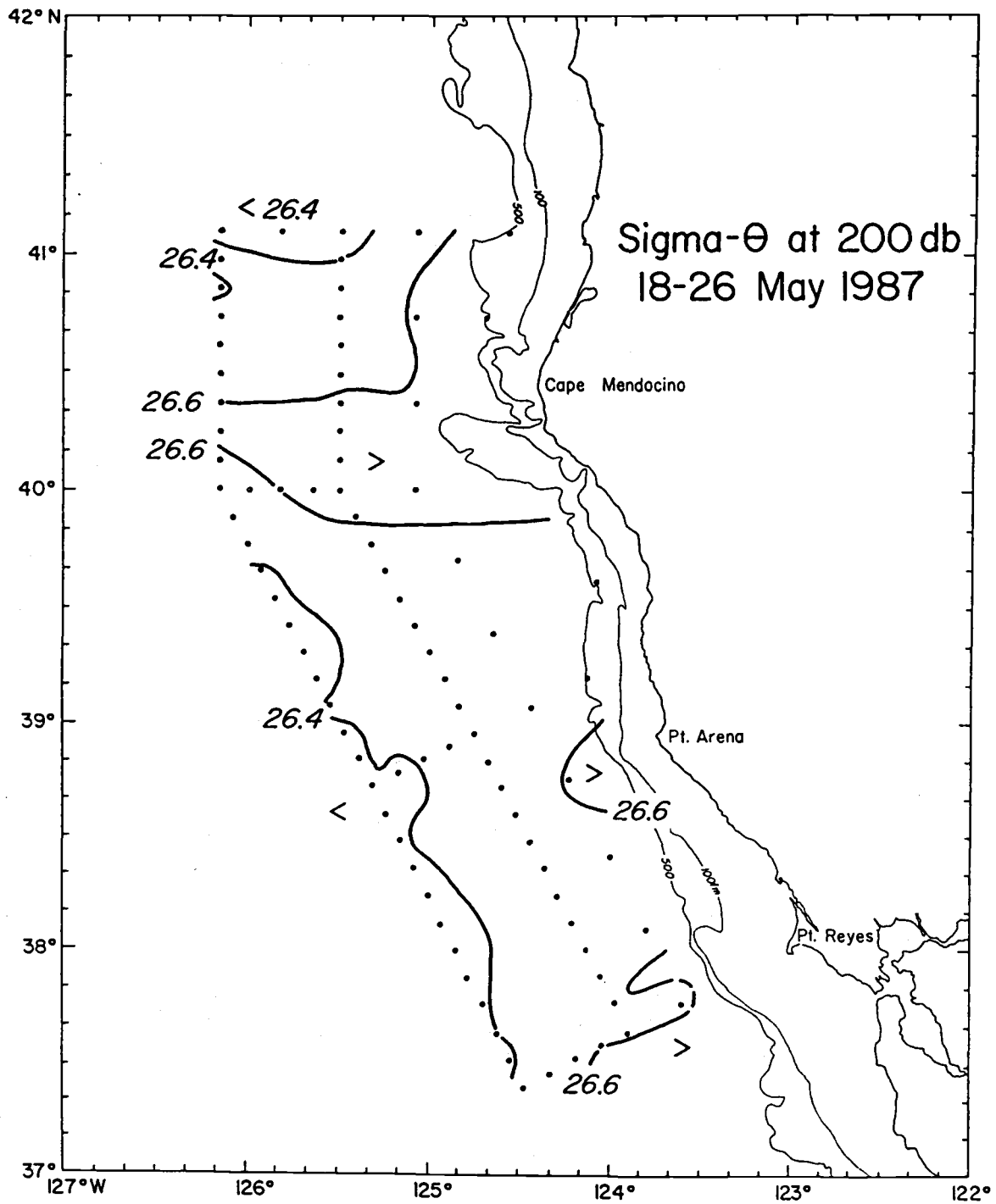


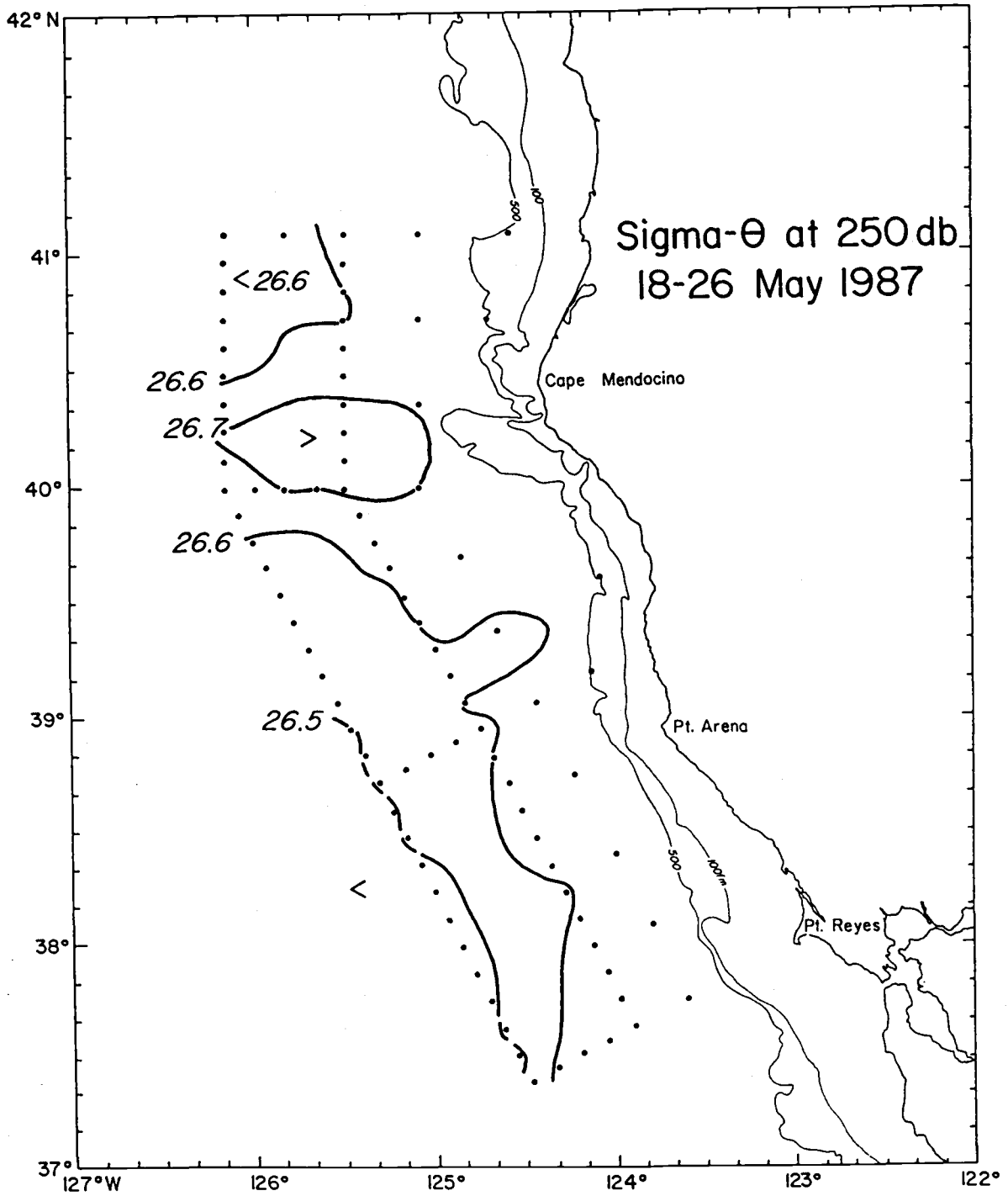


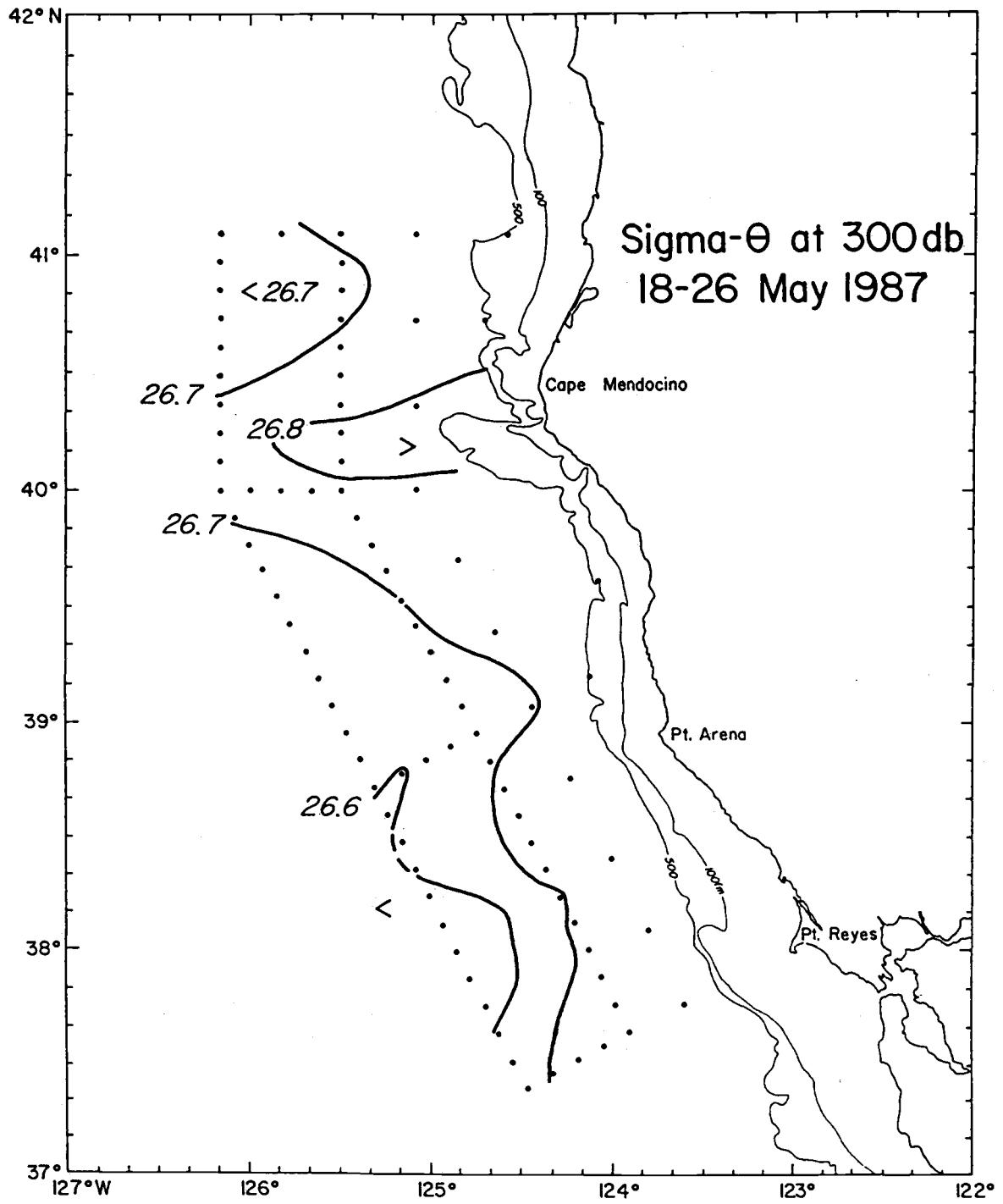


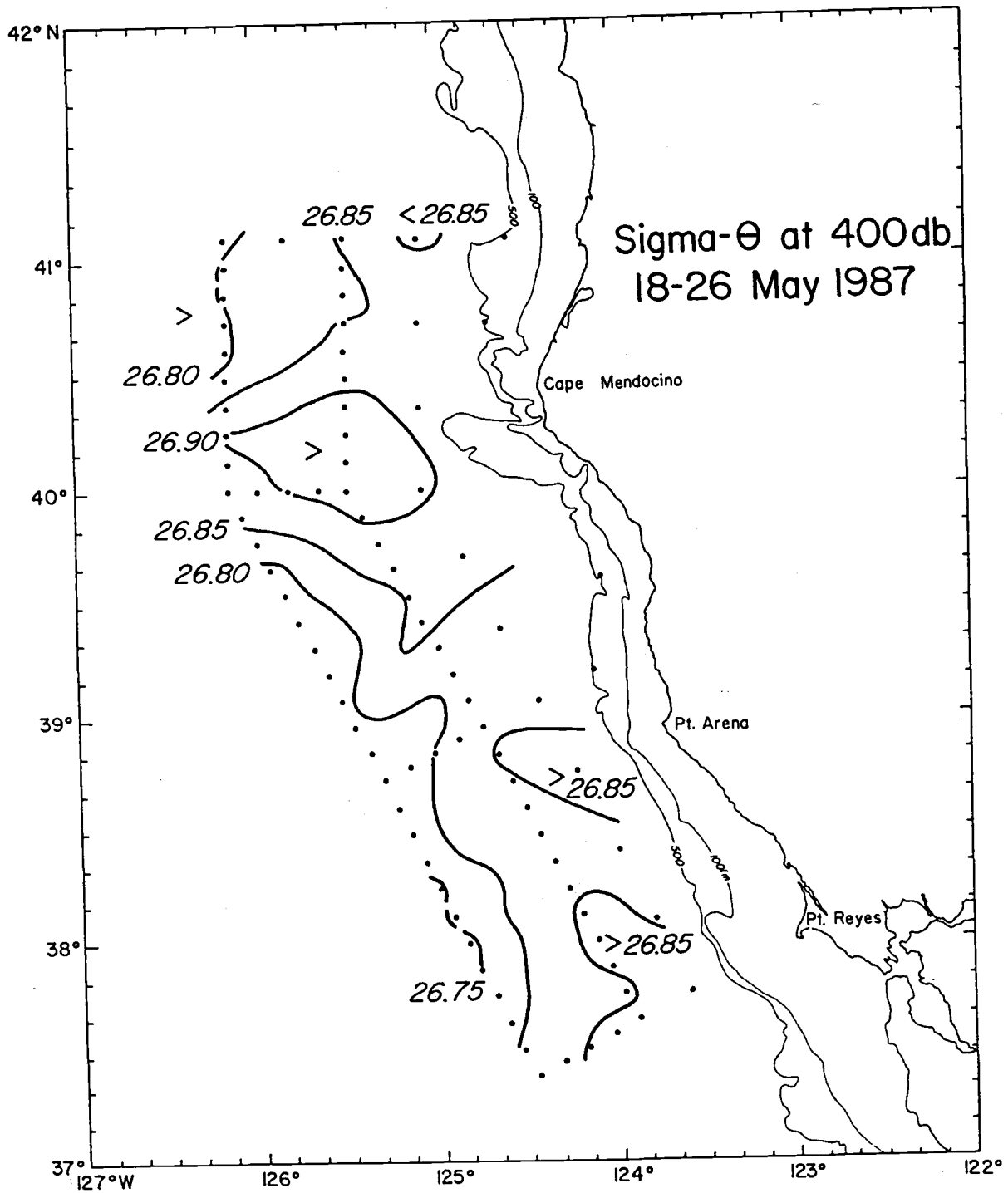


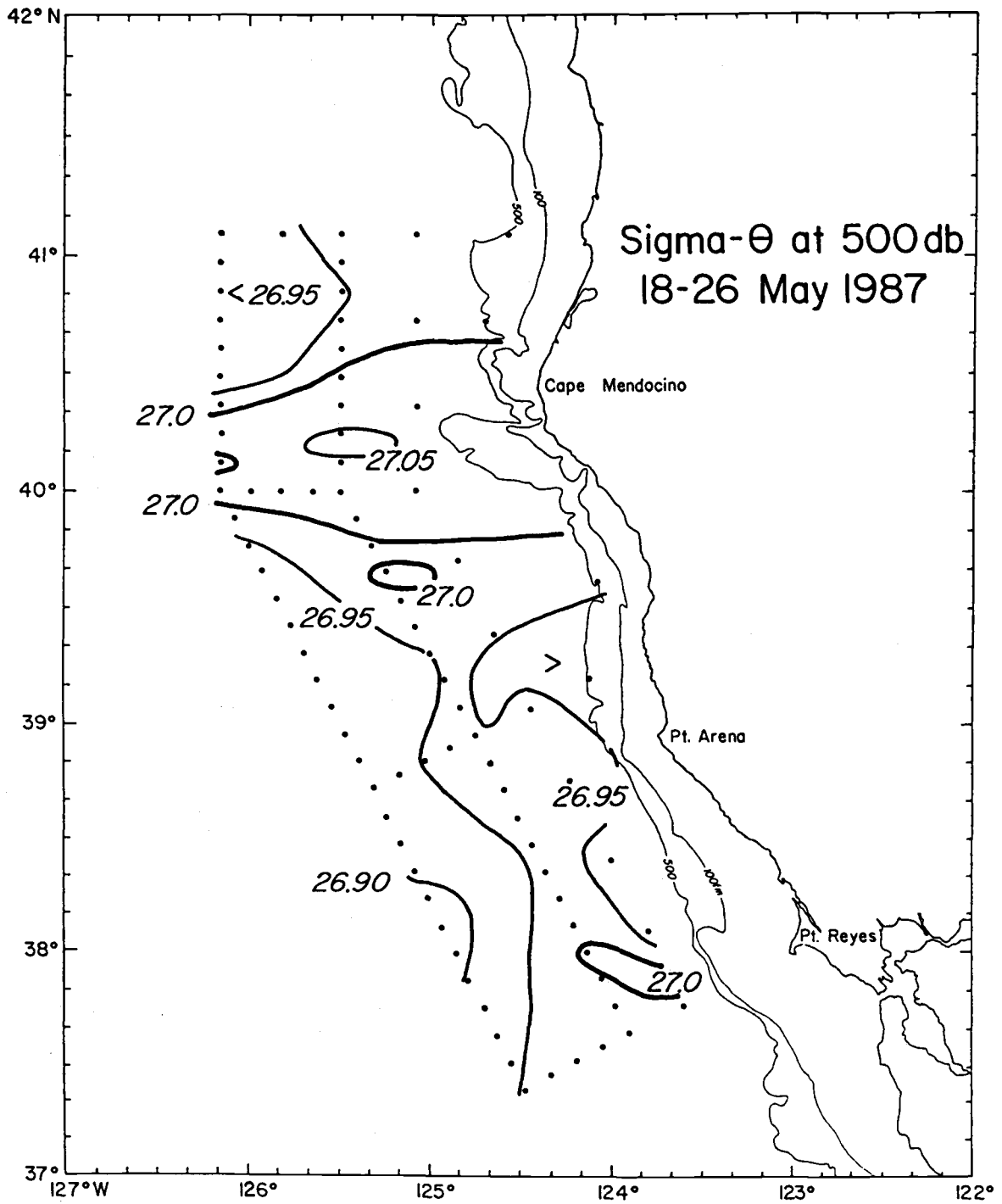


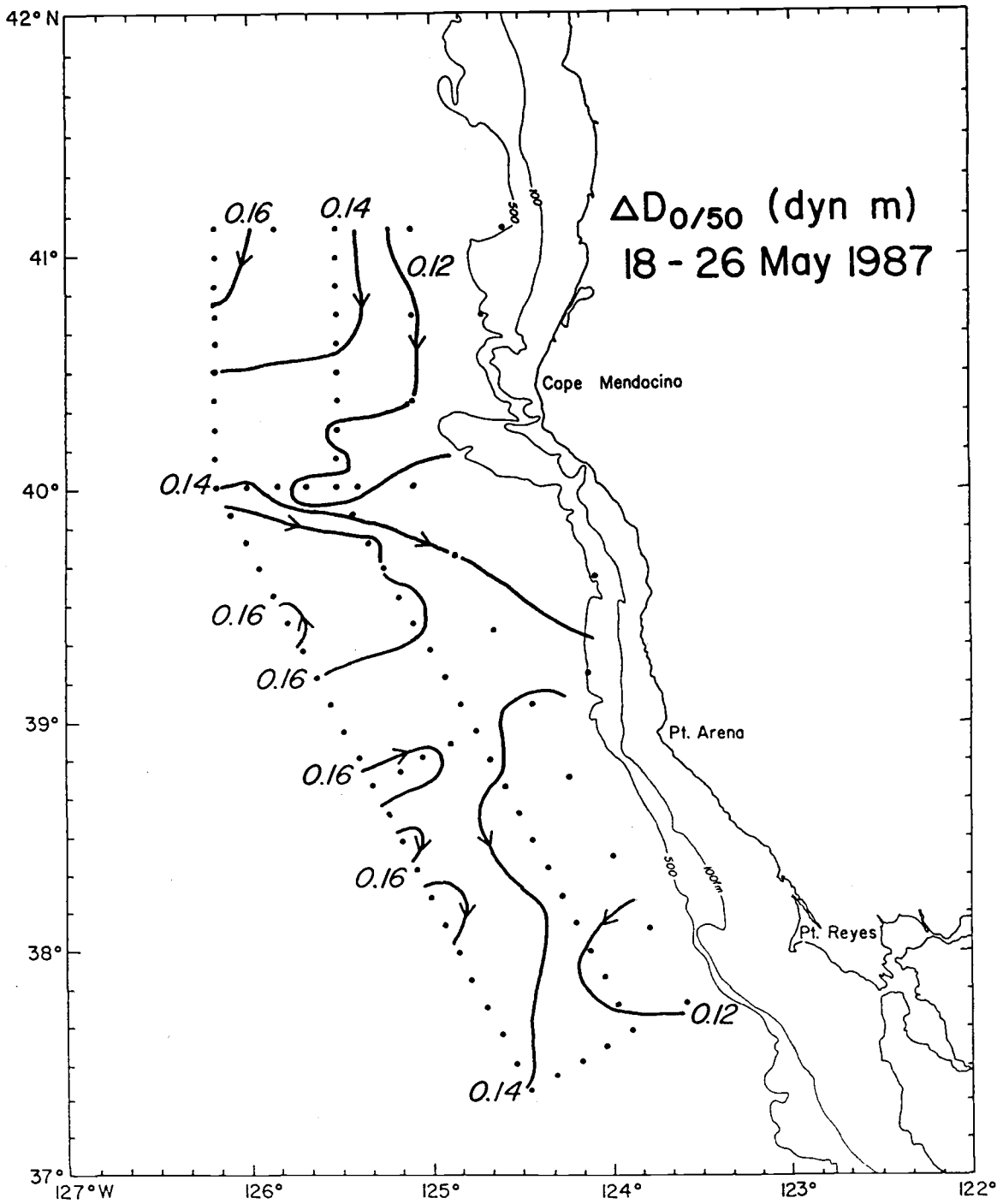


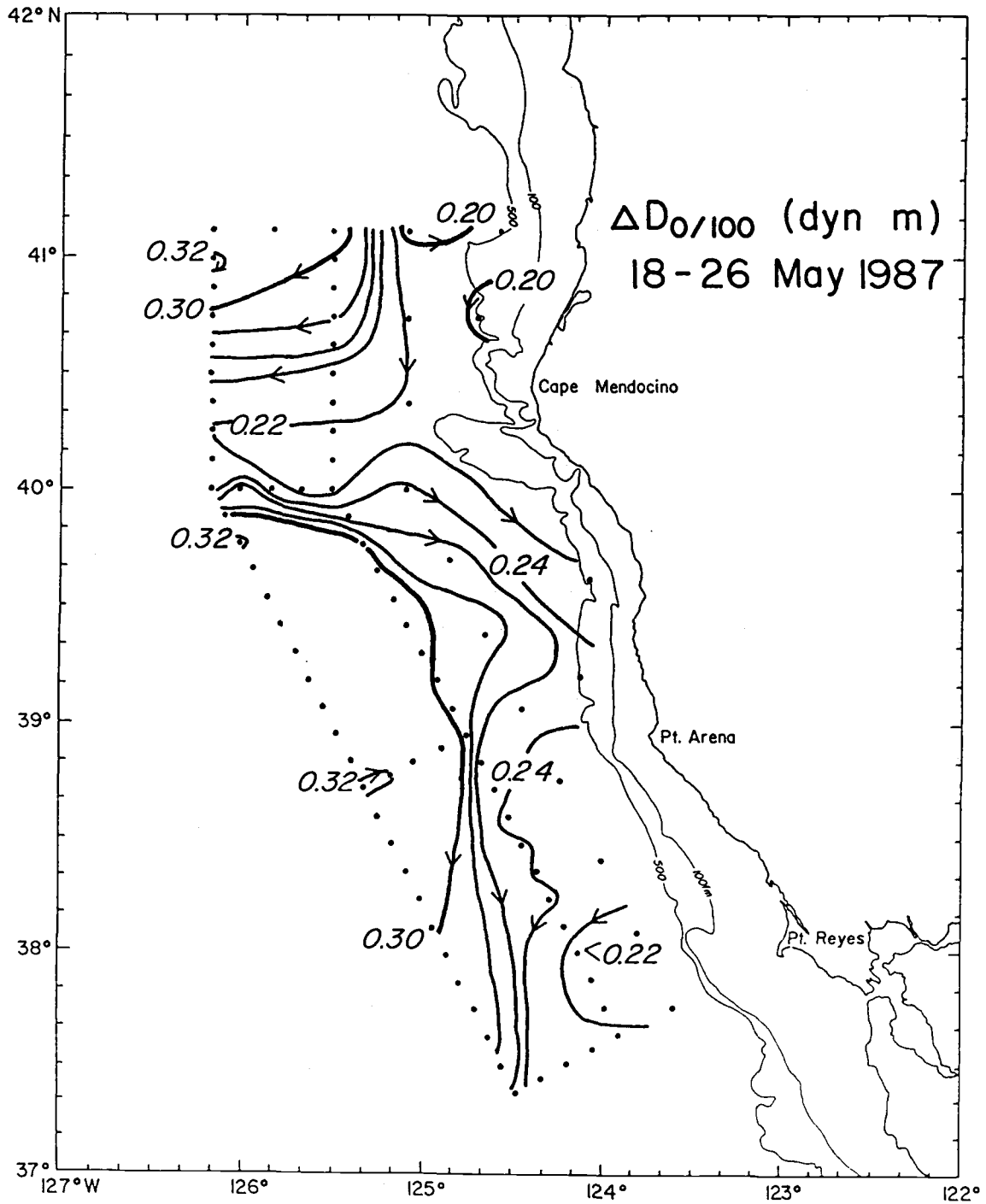


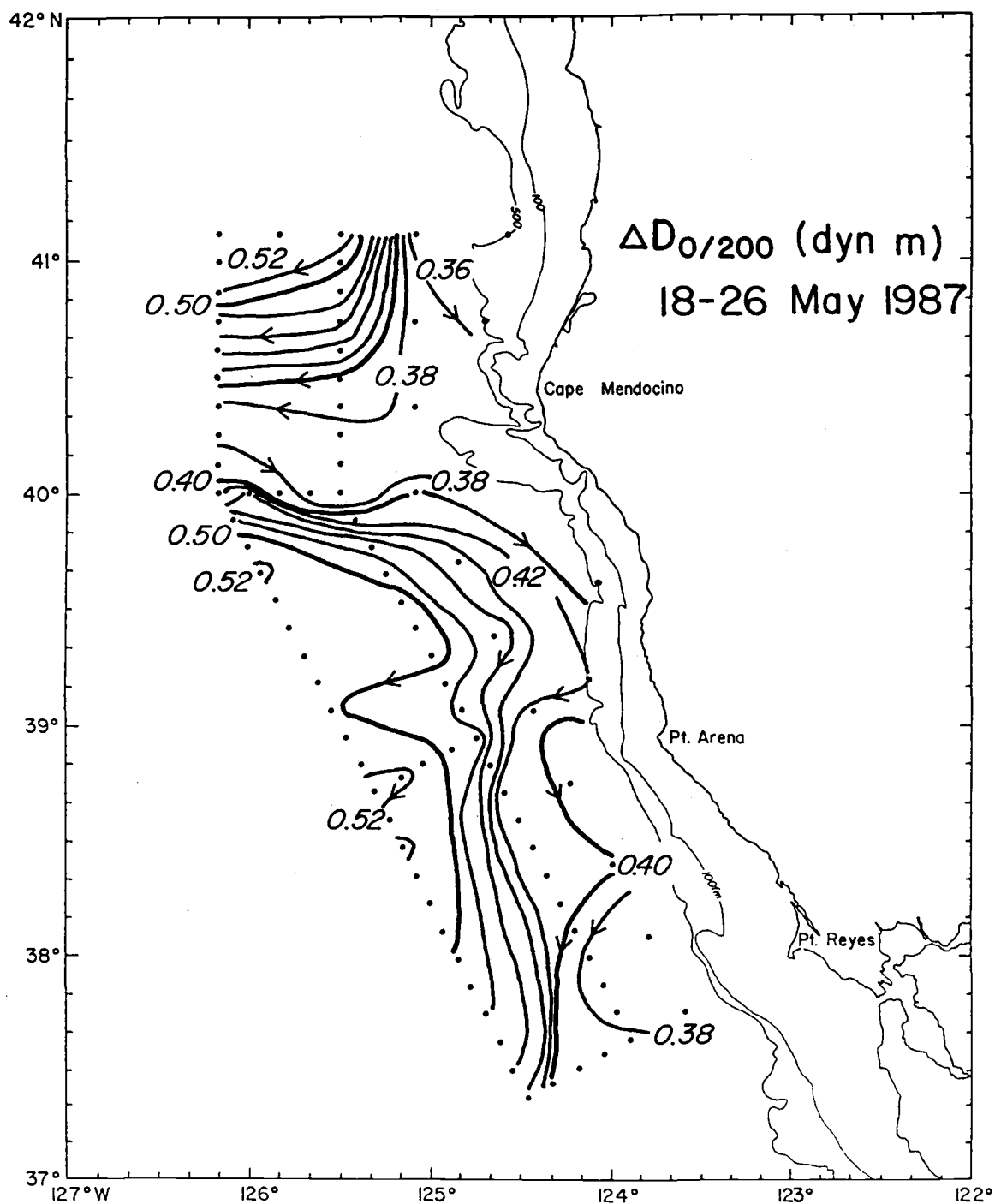


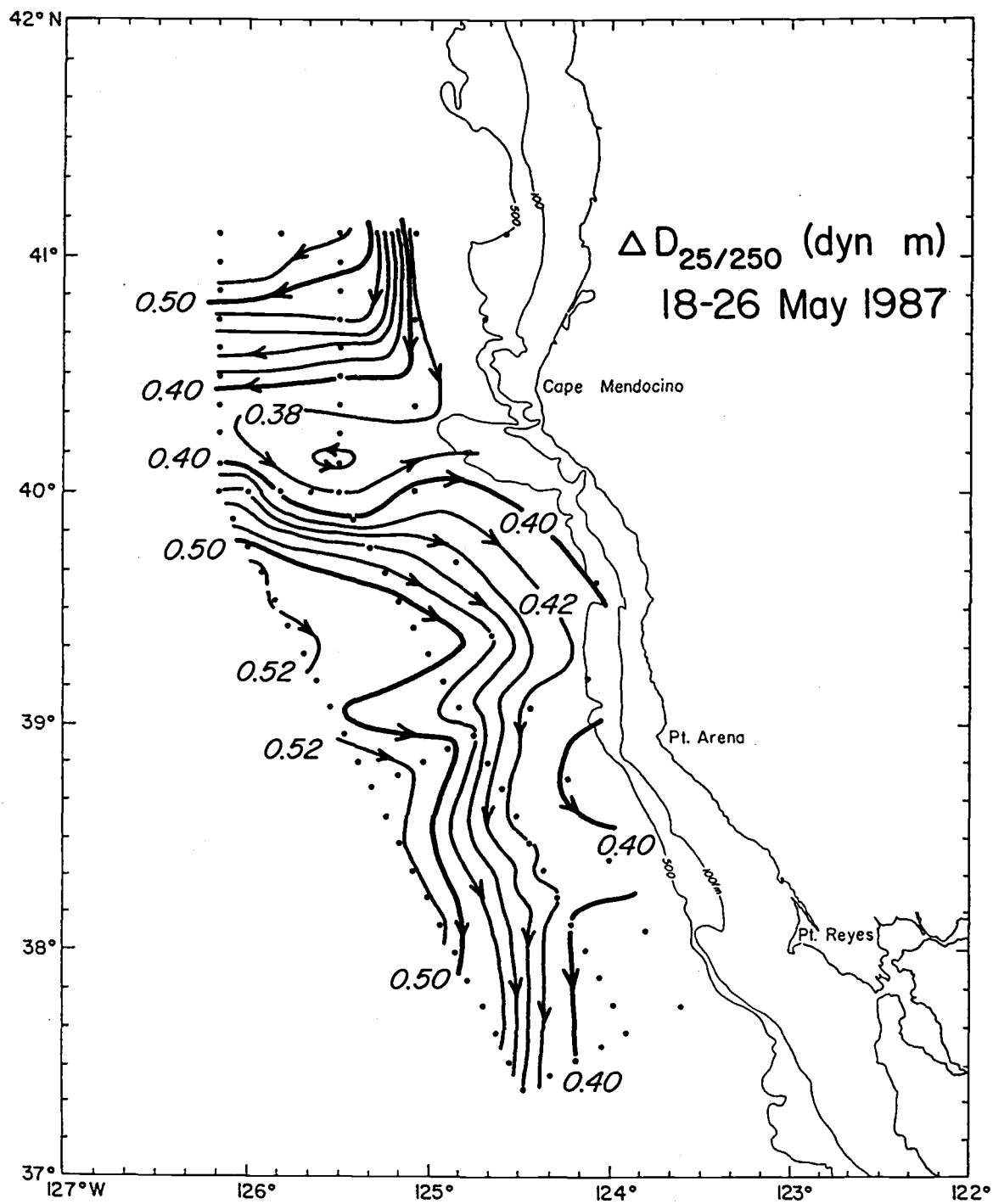


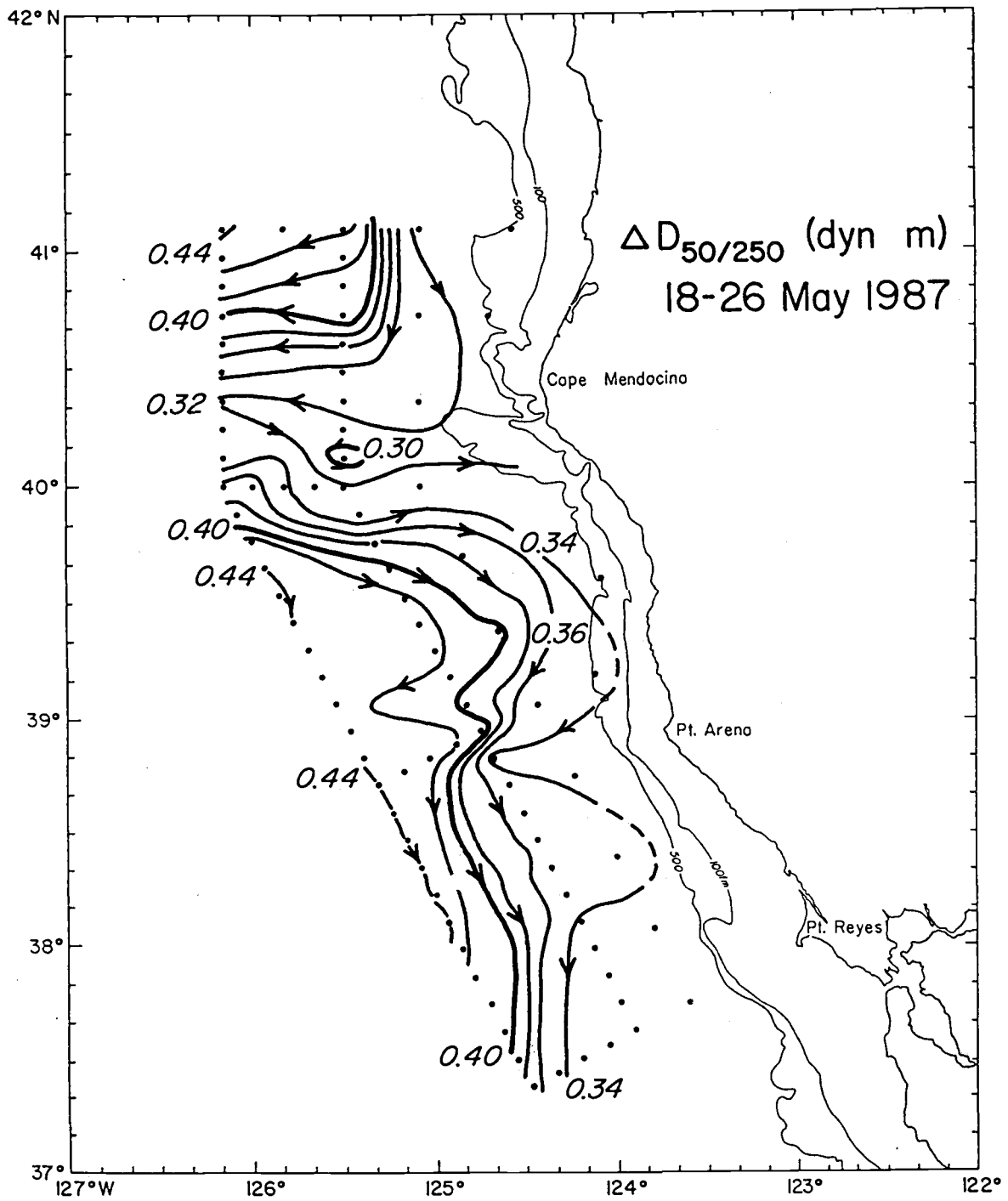


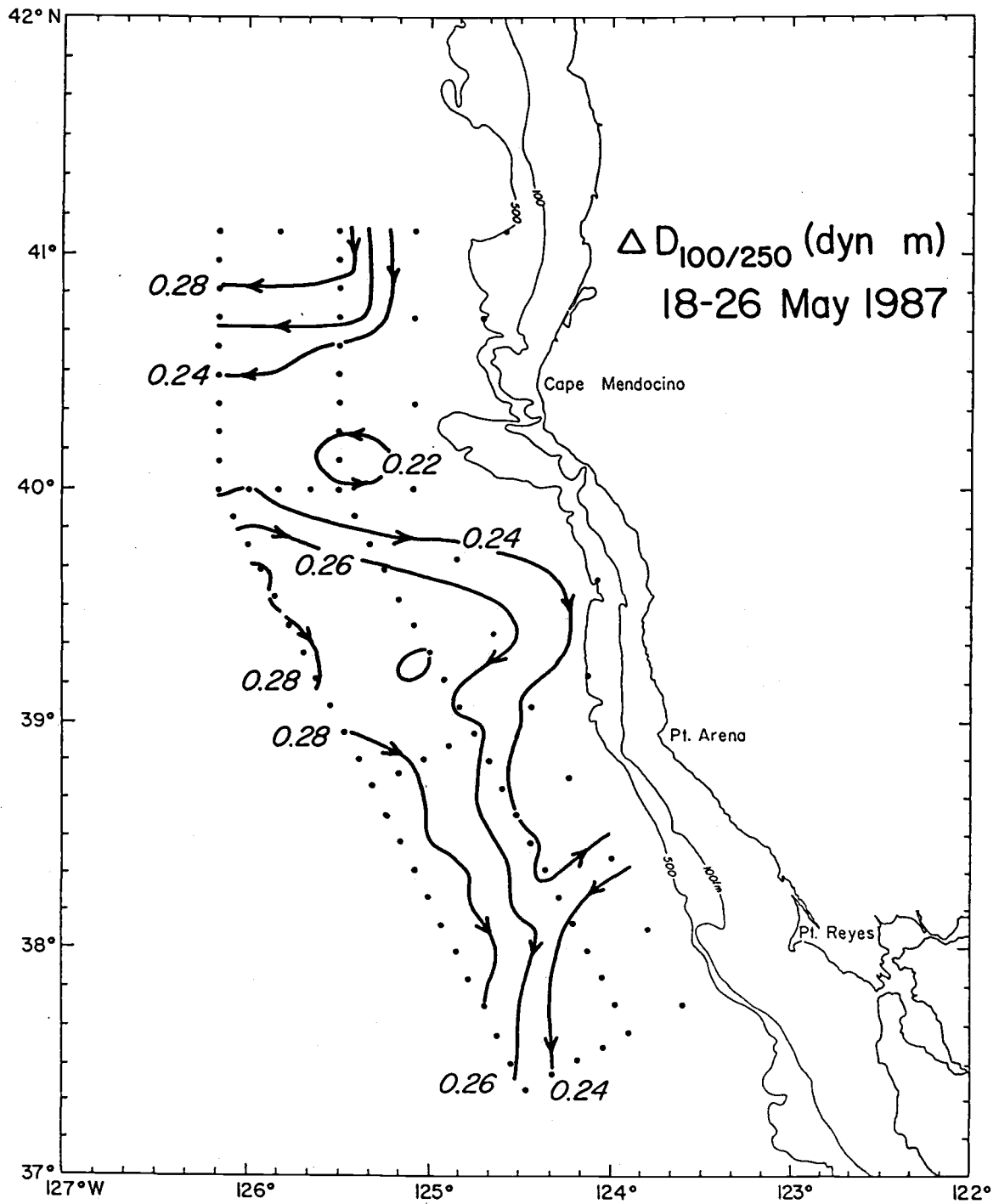


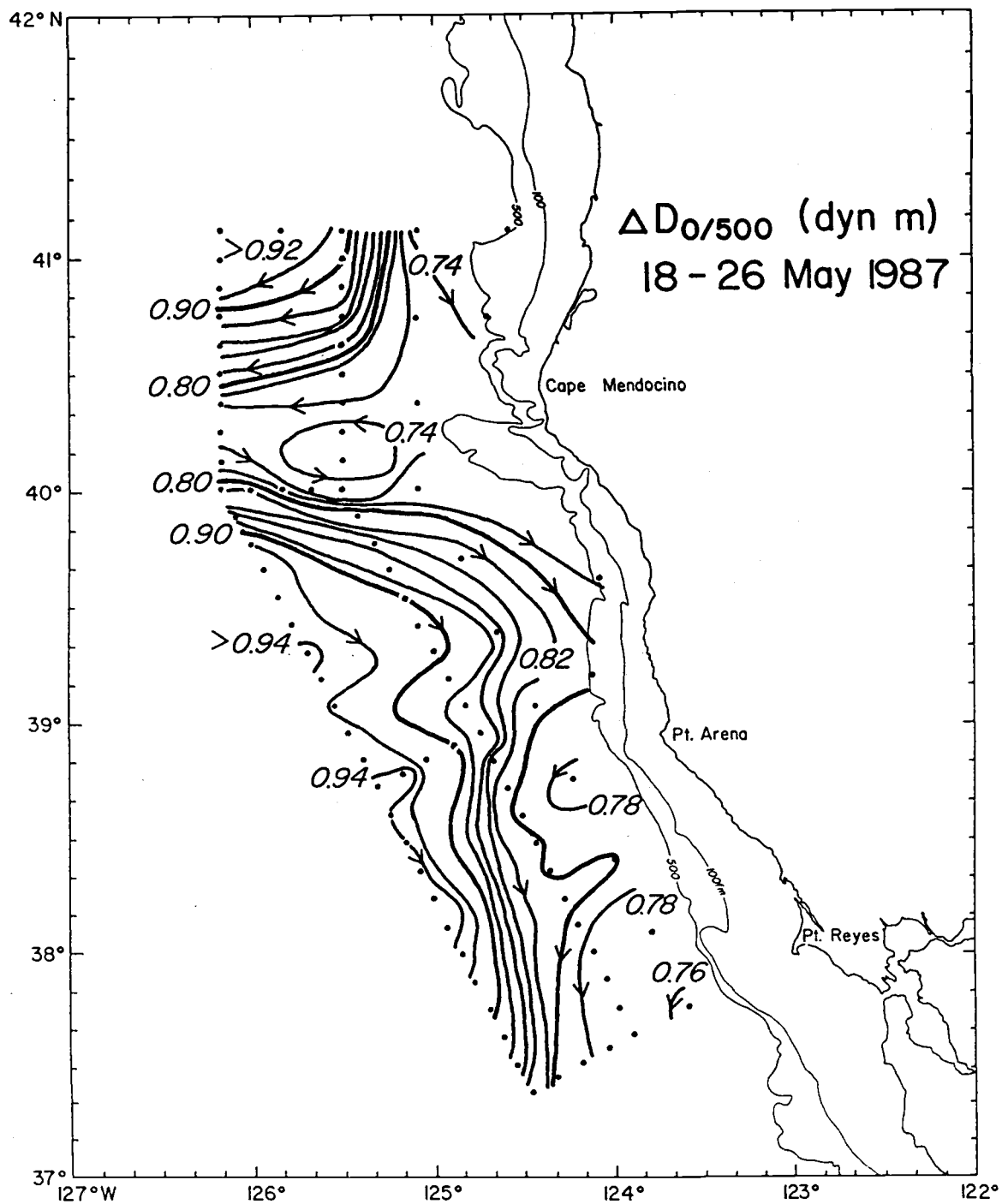


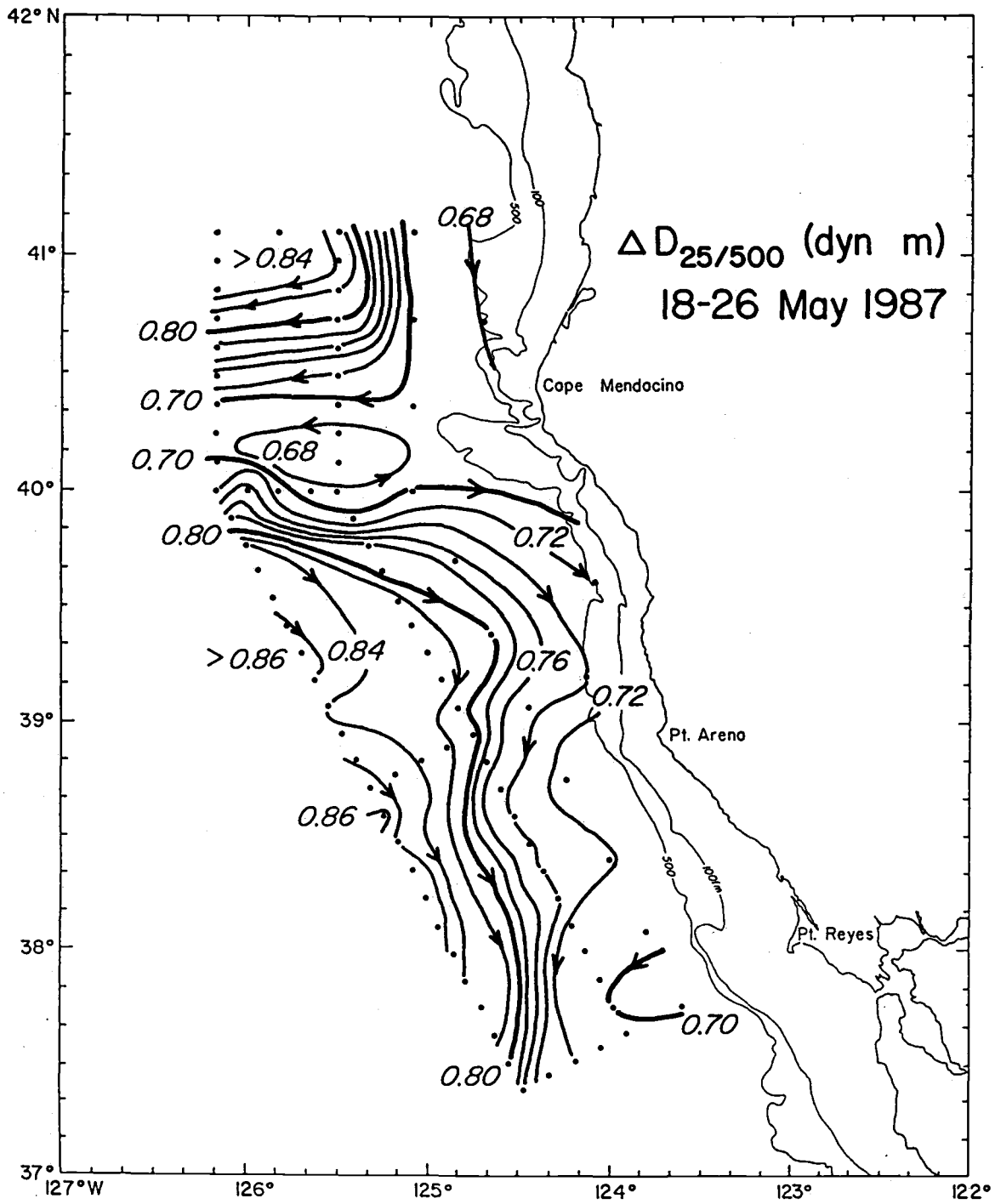


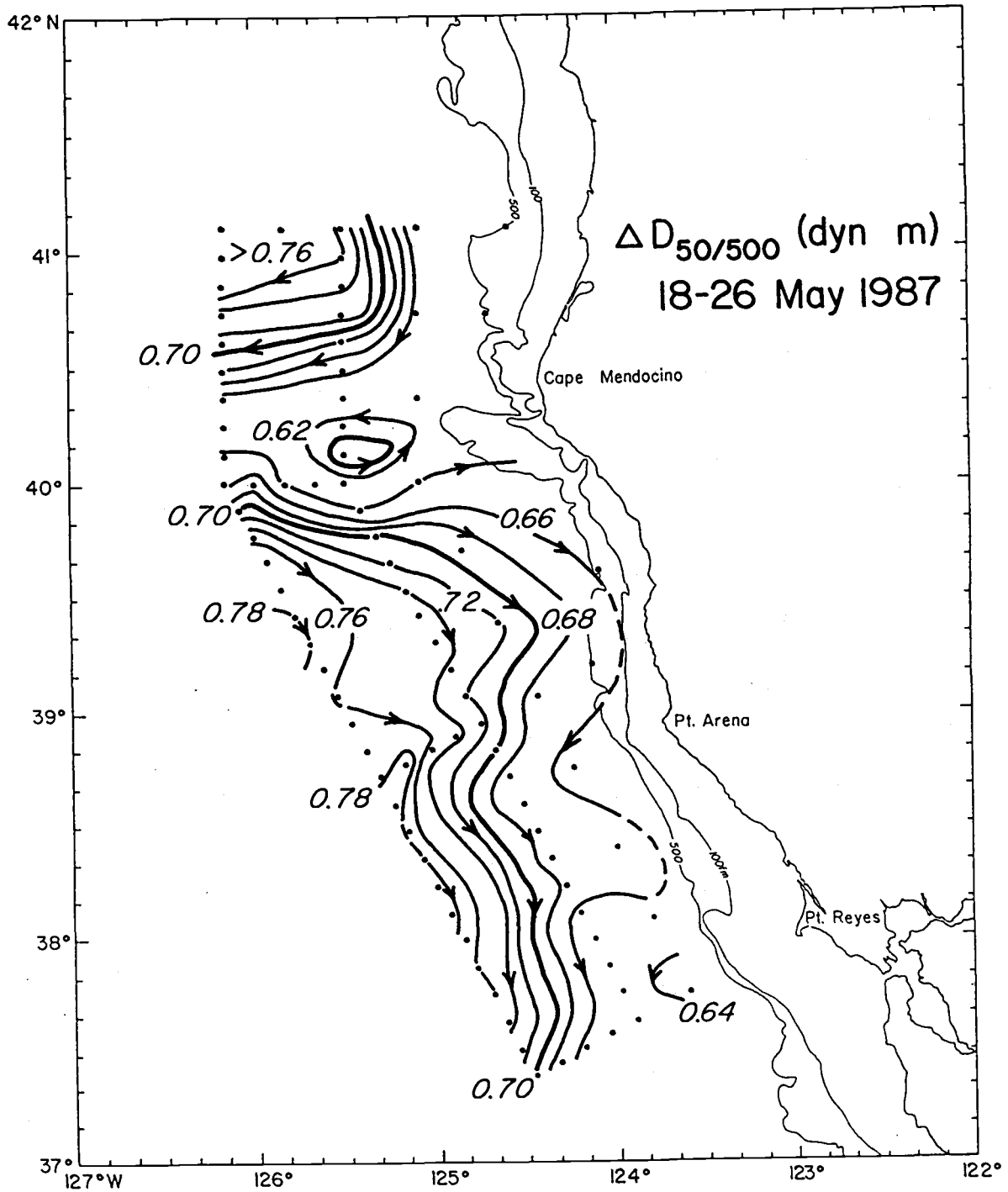


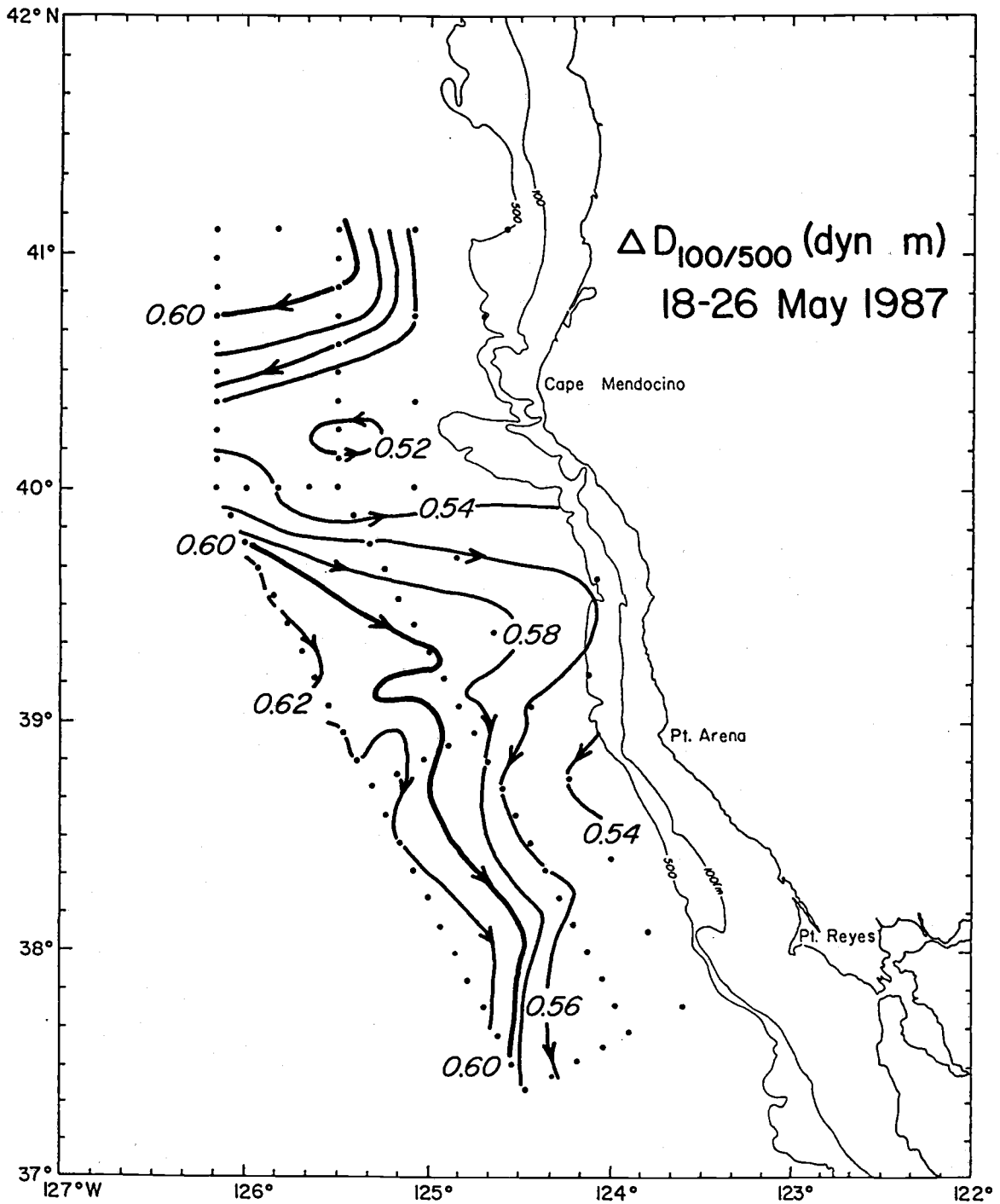


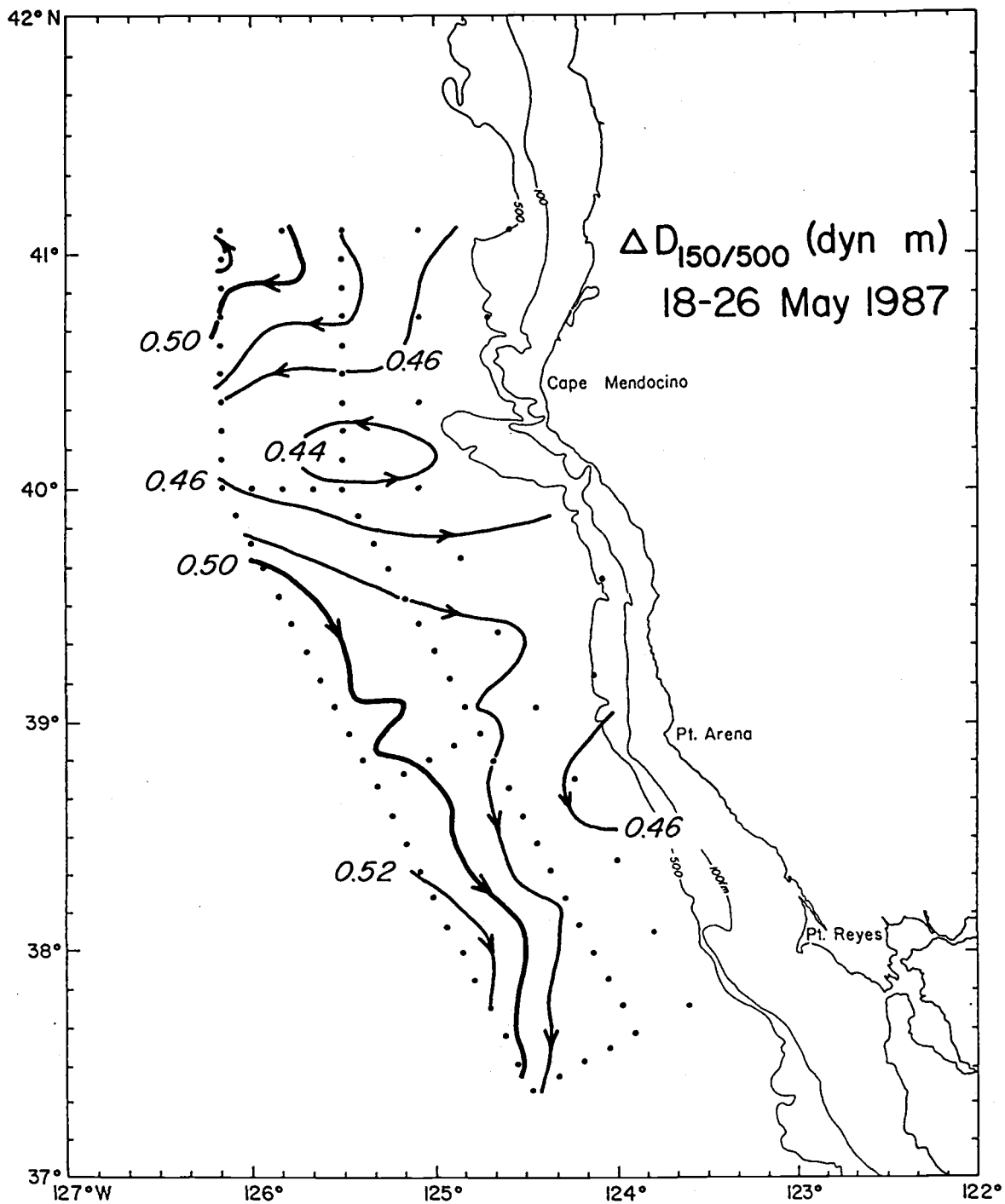


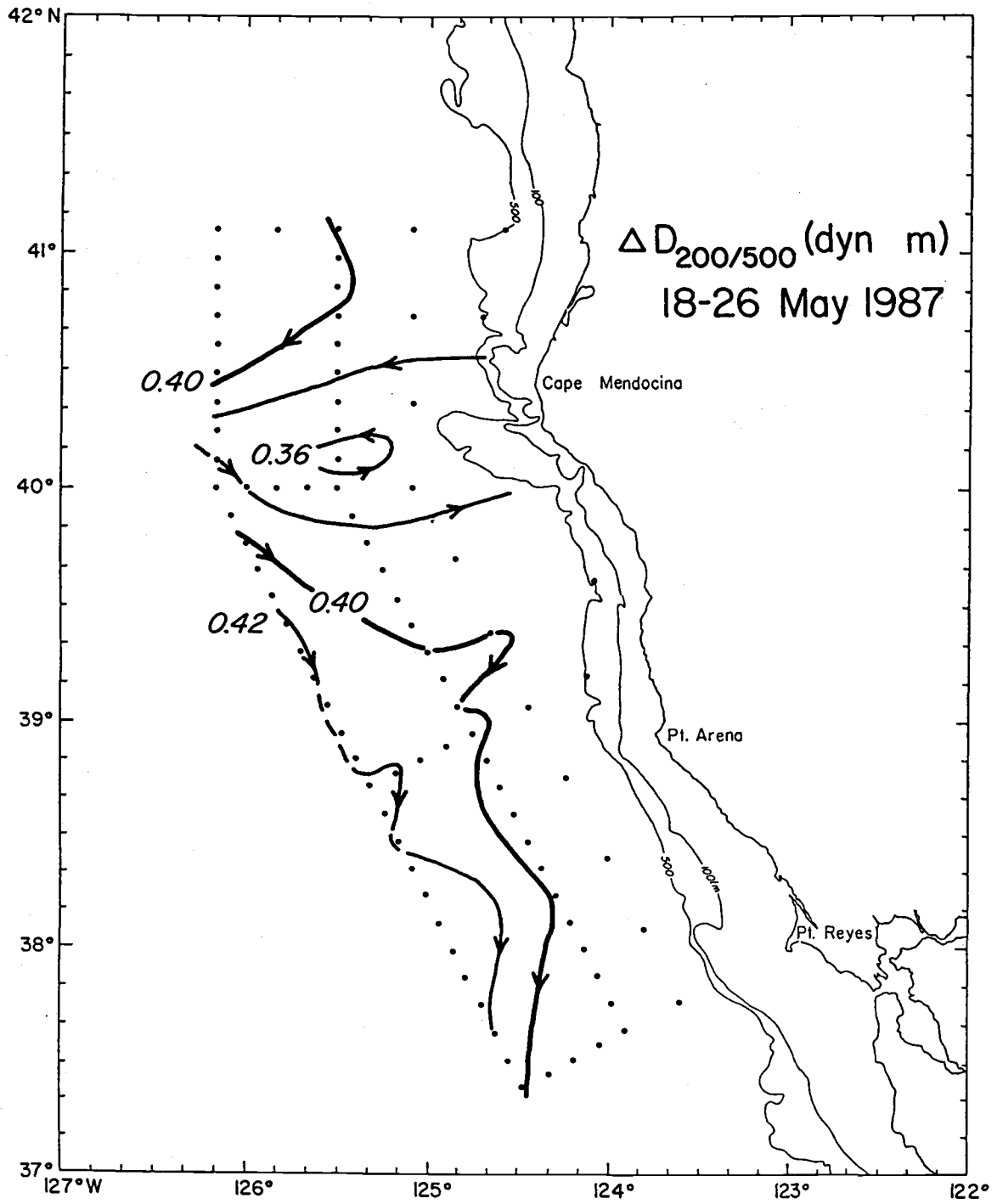




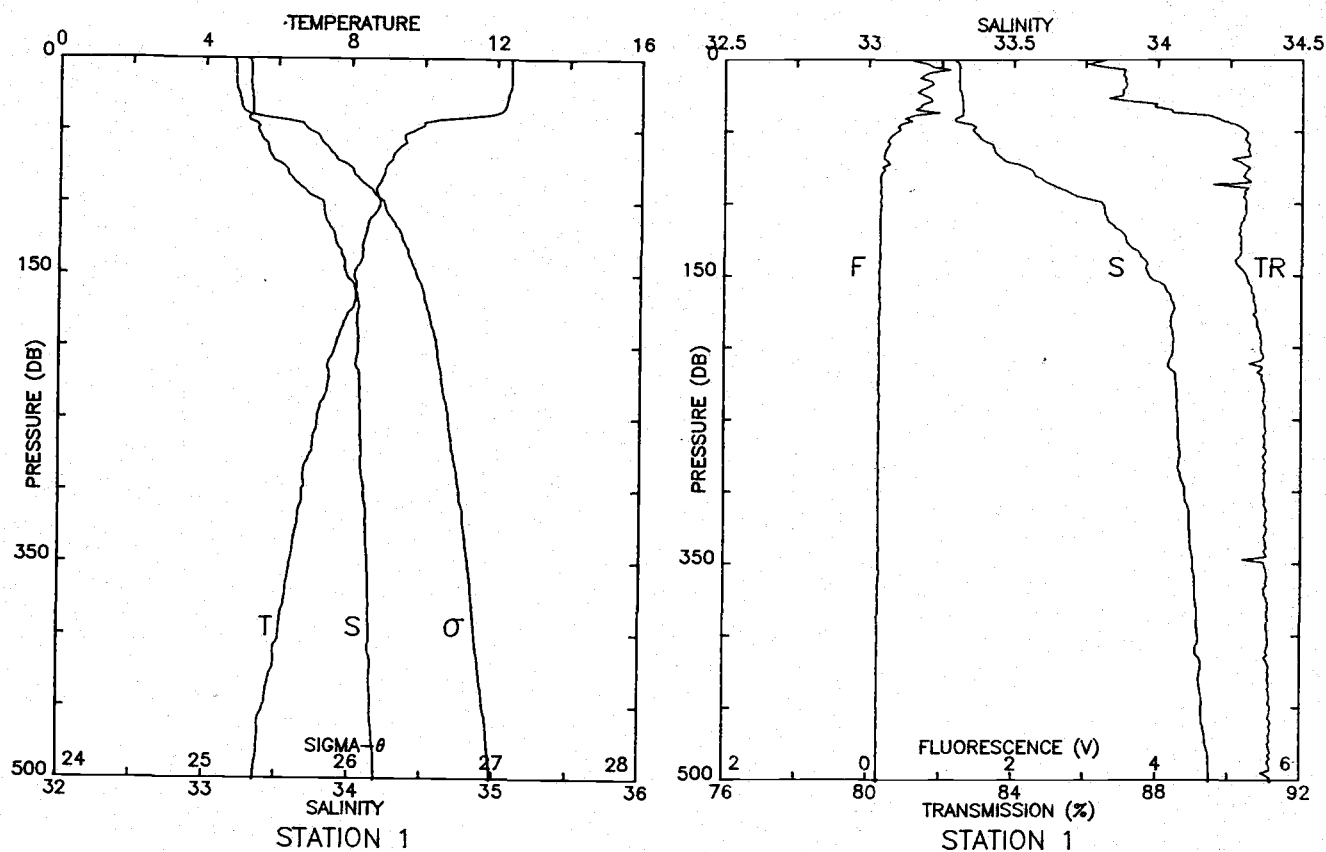






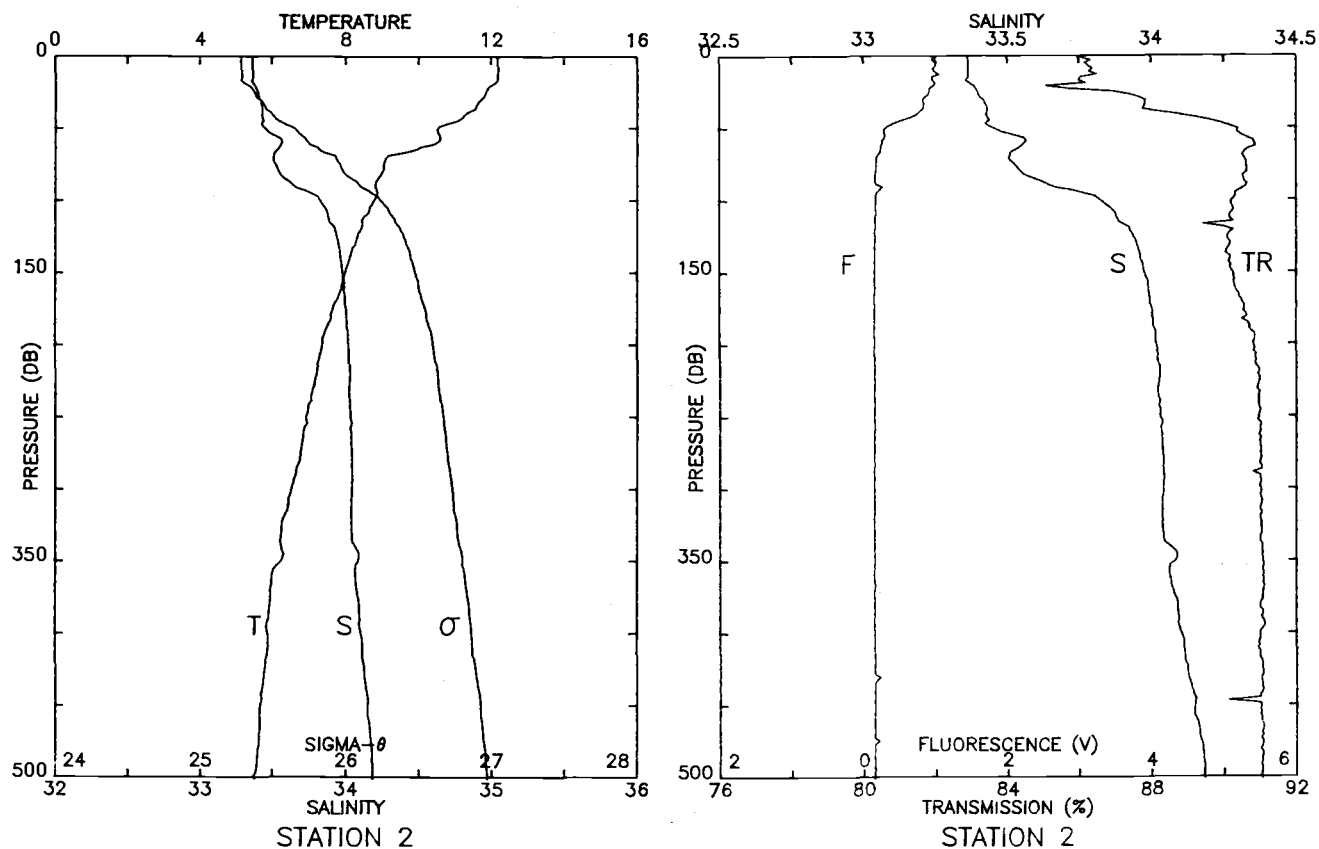


Profile Plots and Listings



STA NO 1 LAT: 37 37.9 N LONG: 123 54.1 W
 18 MAY 1987 2306 GMT PROBE 2561 DEPTH 3477M

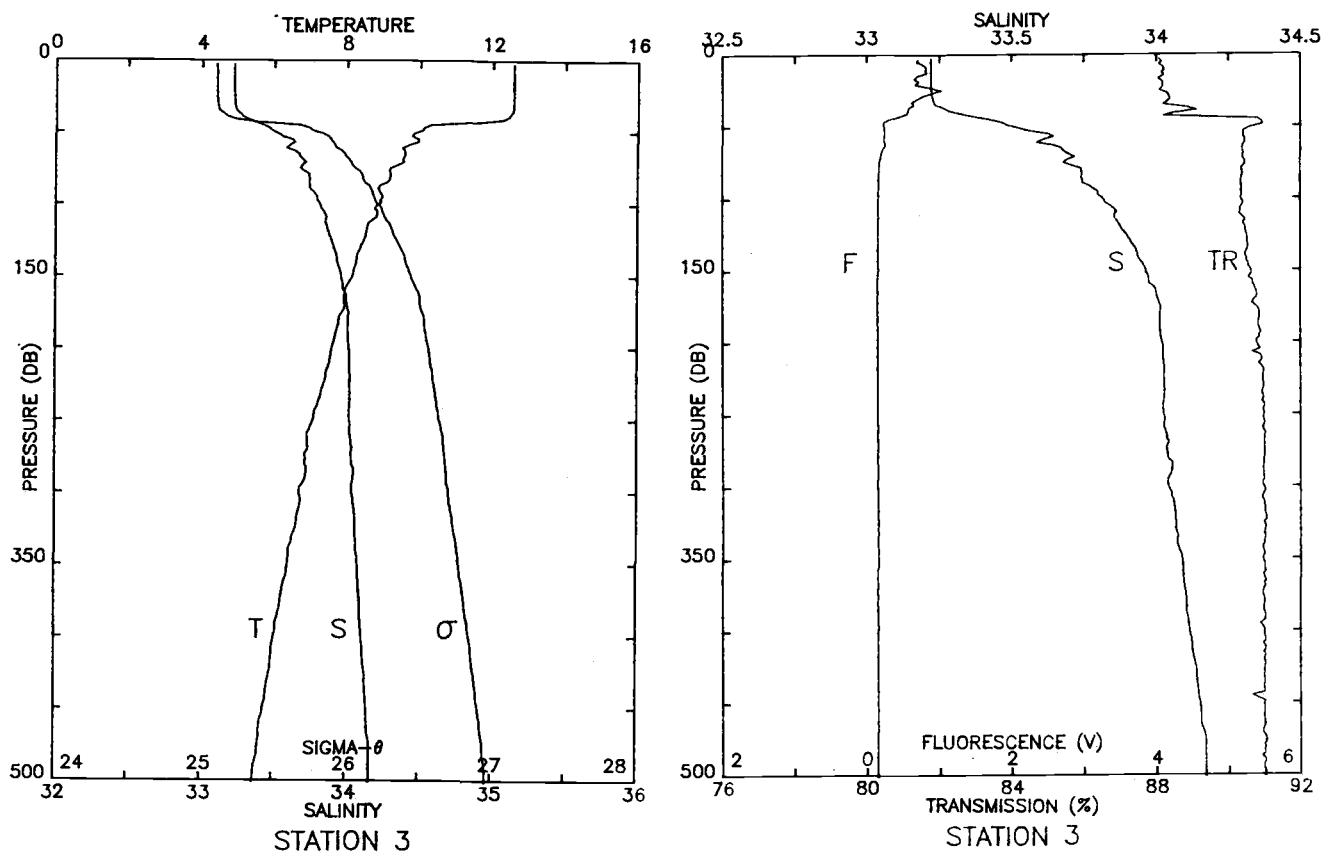
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.383	33.298	12.383	25.195	276.2	0.003	86.5	0.61
10	12.388	33.310	12.387	25.204	275.6	0.028	87.1	0.79
20	12.372	33.311	12.369	25.208	275.5	0.055	87.1	0.77
30	12.252	33.322	12.248	25.239	272.7	0.083	87.6	0.80
40	11.568	33.308	11.563	25.357	261.8	0.110	89.5	0.56
50	9.747	33.361	9.741	25.716	227.7	0.133	90.5	0.40
60	9.435	33.428	9.428	25.819	218.1	0.156	90.5	0.27
70	9.112	33.468	9.105	25.903	210.3	0.177	90.2	0.24
80	8.898	33.574	8.890	26.019	199.4	0.197	90.4	0.17
90	8.699	33.670	8.689	26.126	189.5	0.217	90.5	0.17
100	8.784	33.810	8.774	26.222	180.5	0.235	90.4	0.17
110	8.579	33.826	8.568	26.266	176.5	0.253	90.4	0.16
120	8.422	33.879	8.409	26.332	170.4	0.271	90.3	0.16
130	8.315	33.908	8.302	26.372	166.8	0.287	90.3	0.16
140	8.305	33.960	8.291	26.414	163.0	0.304	90.2	0.16
150	8.111	33.974	8.096	26.454	159.3	0.320	90.5	0.16
175	8.027	34.056	8.009	26.531	152.4	0.359	90.8	0.16
200	7.599	34.055	7.580	26.594	146.8	0.396	90.9	0.16
225	7.411	34.067	7.389	26.629	143.7	0.433	91.0	0.15
250	7.117	34.074	7.093	26.676	139.5	0.468	91.0	0.15
300	6.706	34.097	6.679	26.751	133.0	0.536	91.0	0.15
400	6.099	34.147	6.064	26.871	122.7	0.664	91.1	0.15
500	5.425	34.187	5.383	26.986	112.4	0.781	91.2	0.15
501	5.420	34.187	5.379	26.987	112.4	0.782	91.2	0.15



STA NO 2 LAT: 37 34.1 N LONG: 124 2.8 W
 19 MAY 1987 0052 GMT PROBE 2561 DEPTH 3594M

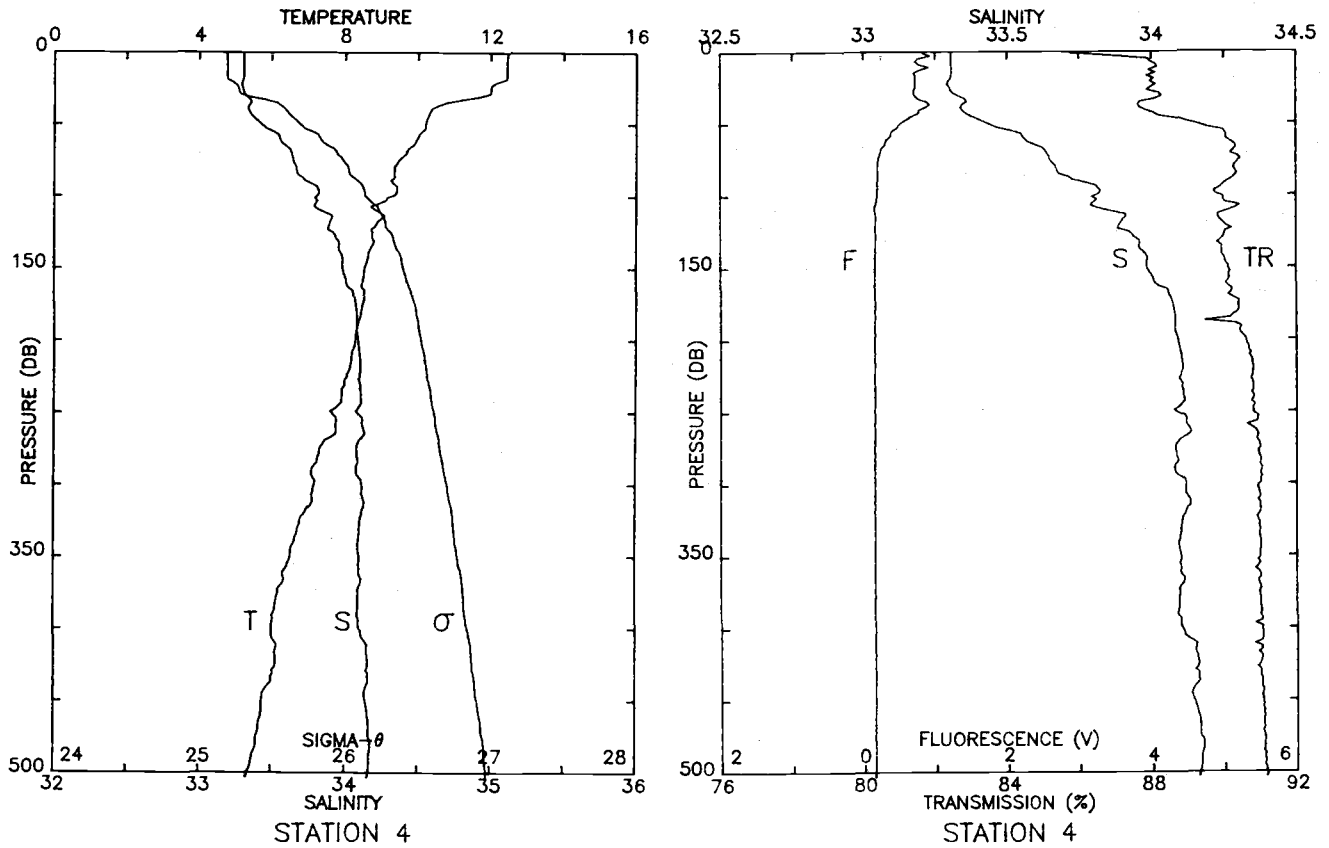
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.176	33.362	12.176	25.284	267.8	0.003	86.0	0.97
10	12.174	33.362	12.172	25.285	267.9	0.027	86.3	0.97
20	12.009	33.375	12.006	25.327	264.2	0.054	85.6	0.98
30	11.718	33.412	11.715	25.410	256.5	0.080	87.8	0.83
40	11.304	33.429	11.299	25.499	248.3	0.105	88.4	0.76
50	10.525	33.450	10.519	25.654	233.7	0.129	90.3	0.31
60	10.490	33.564	10.483	25.749	224.9	0.152	90.8	0.26
70	9.116	33.507	9.109	25.933	207.5	0.174	90.5	0.19
80	8.998	33.548	8.990	25.983	202.8	0.194	90.6	0.17
90	8.800	33.656	8.790	26.099	192.0	0.214	90.6	0.22
100	8.763	33.827	8.752	26.239	178.9	0.232	90.2	0.17
110	8.559	33.878	8.547	26.311	172.3	0.250	90.2	0.17
120	8.402	33.927	8.389	26.373	166.5	0.267	90.1	0.16
130	8.251	33.950	8.238	26.414	162.7	0.283	90.2	0.16
140	8.100	33.964	8.086	26.447	159.8	0.299	90.2	0.15
150	7.976	33.977	7.961	26.477	157.1	0.315	90.2	0.15
175	7.643	34.003	7.626	26.546	150.9	0.354	90.6	0.15
200	7.362	34.018	7.343	26.598	146.3	0.391	90.8	0.15
225	7.152	34.026	7.131	26.633	143.2	0.427	91.0	0.15
250	6.918	34.030	6.895	26.670	140.1	0.462	91.0	0.14
300	6.520	34.041	6.493	26.732	134.7	0.531	91.0	0.14
400	5.876	34.103	5.842	26.864	123.1	0.660	91.0	0.15
500	5.497	34.183	5.456	26.974	113.6	0.778	91.0	0.15
501	5.507	34.184	5.465	26.974	113.6	0.779	91.0	0.15

LIN INT SAL 395-405 DB



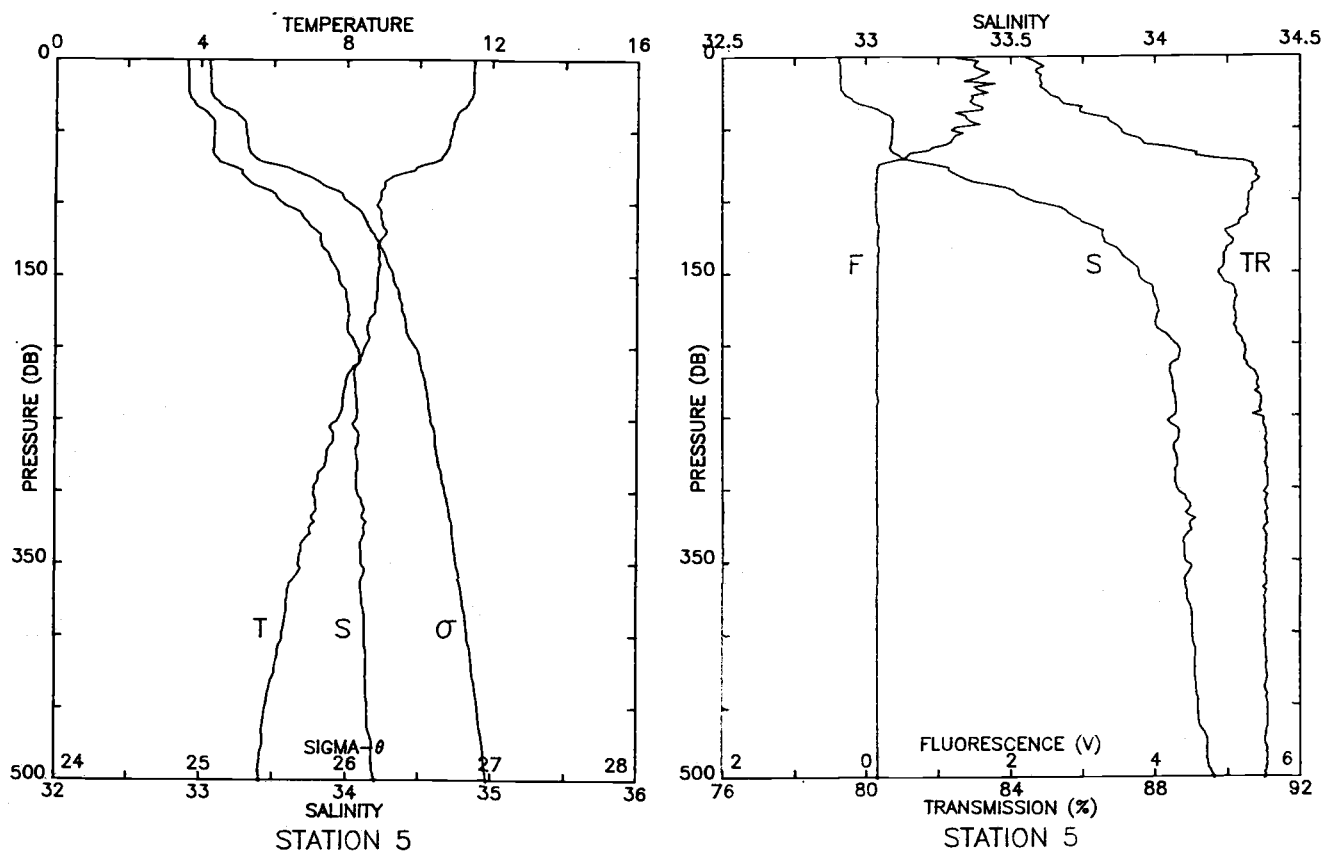
STA NO 3 LAT: 37 30.4 N LONG: 124 11.2 W
 19 MAY 1987 0217 GMT PROBE 2561 DEPTH 3594M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	12.564	33.220	12.564	25.100	285.4	0.009	88.1	0.70
10	12.562	33.220	12.561	25.100	285.5	0.029	88.2	0.81
20	12.563	33.220	12.561	25.100	285.7	0.057	88.2	0.68
30	12.561	33.225	12.557	25.106	285.5	0.086	88.4	0.73
40	12.351	33.300	12.345	25.204	276.4	0.114	88.8	0.56
50	9.933	33.506	9.928	25.798	219.9	0.138	90.8	0.23
60	9.608	33.597	9.602	25.923	208.3	0.159	90.4	0.23
70	9.540	33.710	9.532	26.023	199.0	0.180	90.4	0.19
80	9.189	33.743	9.181	26.106	191.2	0.199	90.4	0.17
90	8.871	33.759	8.862	26.169	185.4	0.218	90.3	0.16
100	8.871	33.818	8.861	26.214	181.3	0.237	90.3	0.16
110	8.756	33.860	8.745	26.266	176.6	0.254	90.3	0.16
120	8.521	33.879	8.508	26.317	171.8	0.272	90.5	0.16
130	8.370	33.913	8.357	26.367	167.2	0.289	90.5	0.15
140	8.254	33.938	8.240	26.404	163.9	0.305	90.5	0.15
150	8.150	33.964	8.135	26.441	160.6	0.321	90.6	0.16
175	7.877	34.014	7.860	26.520	153.4	0.361	90.8	0.14
200	7.596	34.019	7.577	26.566	149.4	0.398	90.8	0.15
225	7.375	34.026	7.354	26.602	146.3	0.435	91.0	0.15
250	7.094	34.024	7.071	26.641	142.9	0.472	91.0	0.14
300	6.717	34.040	6.690	26.705	137.3	0.541	91.0	0.14
400	6.043	34.114	6.008	26.852	124.4	0.672	91.0	0.15
500	5.471	34.170	5.430	26.967	114.3	0.791	91.0	0.15
501	5.466	34.170	5.425	26.968	114.2	0.792	91.0	0.15



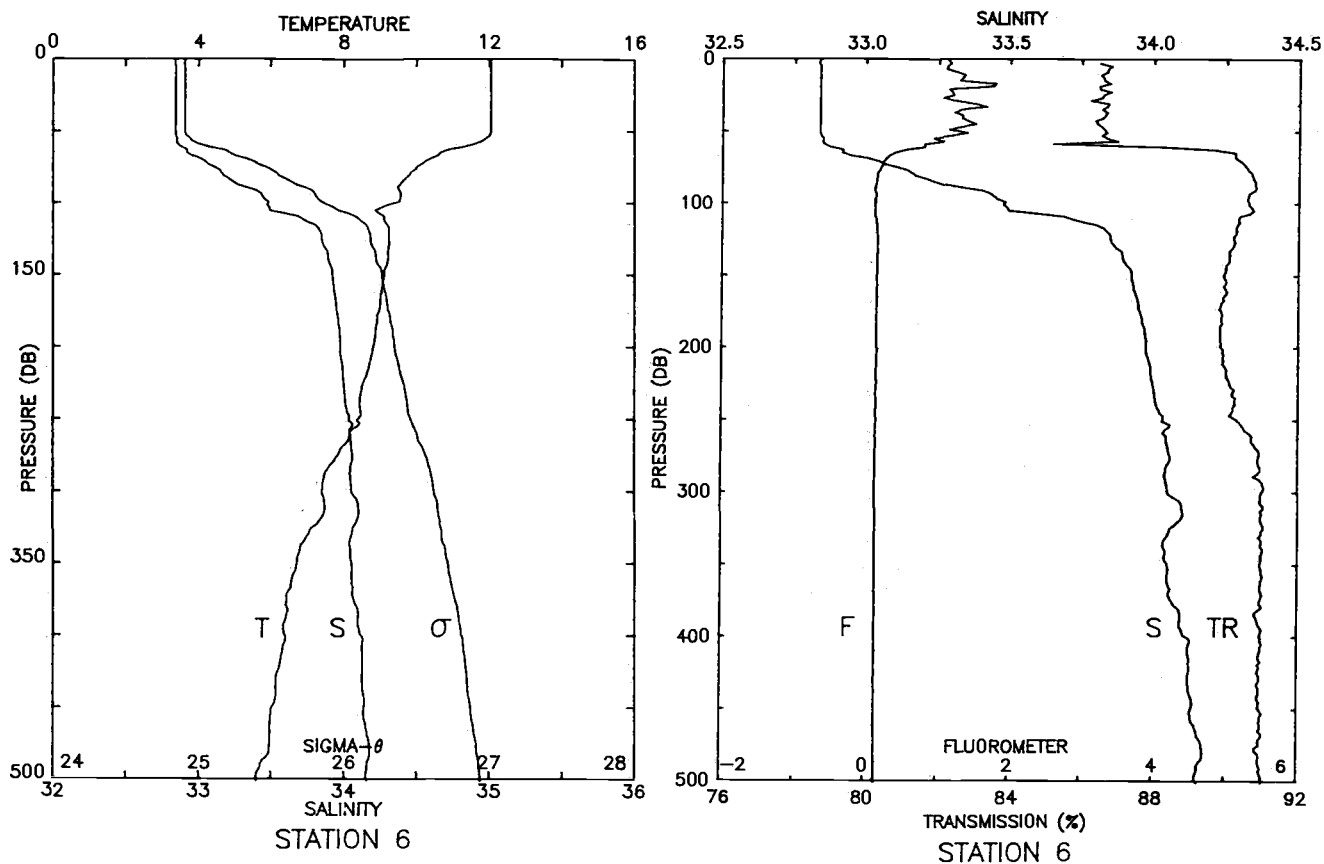
STA NO 4 LAT: 37 26.6 N LONG: 124 19.7 W
 19 MAY 1987 0337 GMT PROBE 2561 DEPTH 3926M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.457	33.304	12.456	25.186	277.1	0.003	85.7	0.82
10	12.434	33.304	12.433	25.191	276.9	0.028	88.1	0.84
20	12.290	33.297	12.288	25.213	275.0	0.055	88.0	0.72
30	11.834	33.320	11.830	25.317	265.4	0.082	88.2	0.71
40	10.358	33.340	10.354	25.596	238.9	0.107	87.7	0.82
50	10.198	33.430	10.192	25.694	229.8	0.131	89.2	0.52
60	9.977	33.558	9.970	25.831	217.0	0.153	90.1	0.35
70	9.667	33.637	9.660	25.945	206.4	0.174	90.2	0.23
80	9.355	33.669	9.346	26.021	199.3	0.194	90.3	0.20
90	9.285	33.749	9.276	26.095	192.5	0.214	90.1	0.19
100	9.262	33.804	9.251	26.142	188.2	0.233	89.9	0.19
110	8.855	33.838	8.843	26.233	179.7	0.251	90.2	0.15
120	8.827	33.888	8.814	26.277	175.7	0.269	90.0	0.17
130	8.760	33.946	8.747	26.333	170.6	0.286	89.9	0.17
140	8.626	33.974	8.612	26.376	166.7	0.303	89.9	0.16
150	8.527	33.983	8.512	26.399	164.7	0.320	90.1	0.16
175	8.461	34.071	8.443	26.478	157.6	0.360	90.4	0.15
200	8.269	34.090	8.249	26.522	153.8	0.399	90.6	0.15
225	8.046	34.100	8.023	26.564	150.3	0.437	90.8	0.15
250	7.616	34.081	7.592	26.612	145.9	0.474	90.8	0.14
300	7.166	34.117	7.138	26.704	137.8	0.545	91.0	0.15
400	6.021	34.101	5.987	26.844	125.1	0.676	91.0	0.15
500	5.351	34.162	5.310	26.975	113.4	0.795	91.2	0.14
503	5.323	34.159	5.282	26.976	113.3	0.798	91.1	0.15



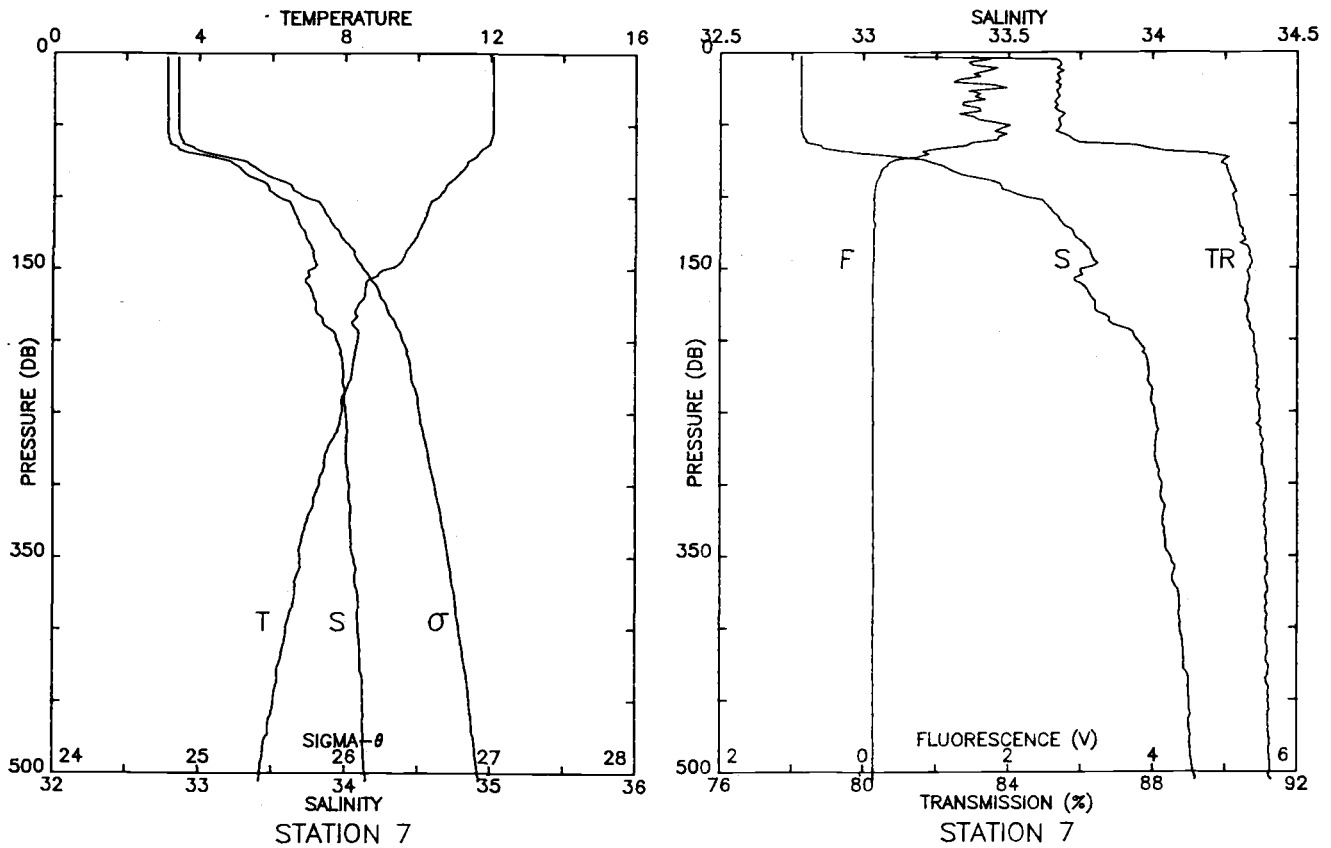
STA NO 5 LAT: 37 22.7 N LONG: 124 28.2 W
 19 MAY 1987 0500 GMT PROBE 2561 DEPTH 4021M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.499	32.905	11.499	25.055	289.6	0.003	84.4	1.24
10	11.477	32.909	11.476	25.063	289.0	0.029	84.7	1.65
20	11.476	32.910	11.473	25.064	289.1	0.058	84.8	1.64
30	11.323	32.953	11.319	25.125	283.5	0.087	85.4	1.45
40	11.003	33.070	10.999	25.273	269.7	0.114	86.1	1.30
50	10.881	33.091	10.875	25.312	266.2	0.141	87.0	1.20
60	10.793	33.087	10.786	25.324	265.3	0.167	87.7	1.14
70	10.500	33.124	10.492	25.404	257.9	0.194	89.4	0.53
80	9.409	33.294	9.401	25.719	228.0	0.218	90.8	0.15
90	8.989	33.454	8.979	25.911	209.9	0.240	90.7	0.14
100	8.840	33.572	8.829	26.027	199.0	0.260	90.6	0.14
110	8.935	33.710	8.923	26.121	190.4	0.280	90.5	0.15
120	9.076	33.810	9.064	26.177	185.3	0.298	90.0	0.18
130	8.847	33.836	8.833	26.233	180.1	0.317	90.1	0.16
140	8.885	33.898	8.870	26.276	176.2	0.334	89.9	0.17
150	8.842	33.946	8.827	26.320	172.2	0.352	89.8	0.16
175	8.771	34.011	8.752	26.383	166.8	0.394	90.2	0.16
200	8.478	34.071	8.457	26.476	158.3	0.435	90.5	0.15
225	7.964	34.059	7.942	26.544	152.1	0.474	90.9	0.15
250	7.736	34.063	7.711	26.581	148.9	0.511	90.8	0.15
300	7.100	34.075	7.072	26.680	140.0	0.583	91.1	0.15
400	6.247	34.128	6.212	26.837	126.0	0.716	91.0	0.15
500	5.642	34.203	5.600	26.973	113.9	0.836	91.0	0.15
501	5.647	34.205	5.605	26.973	113.9	0.837	91.0	0.15



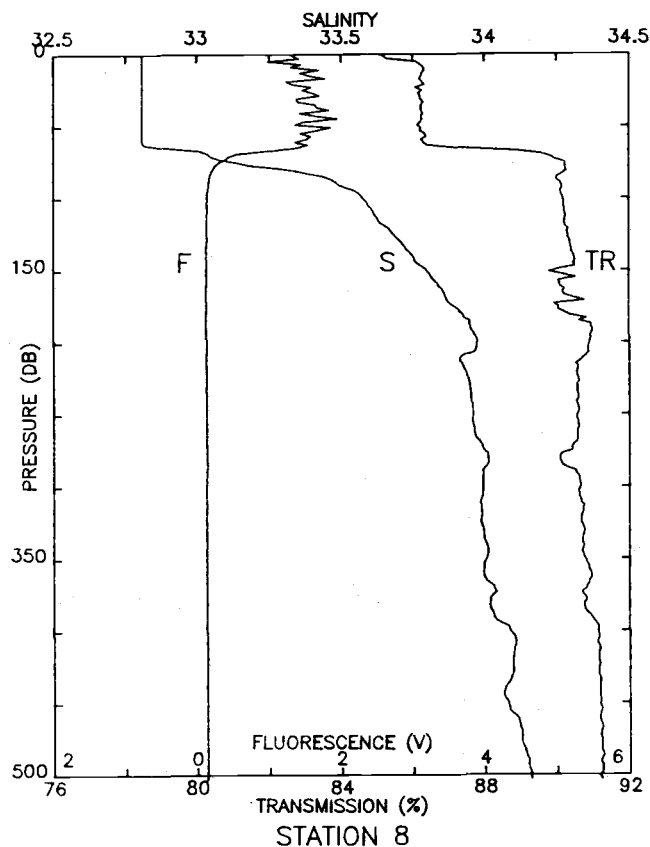
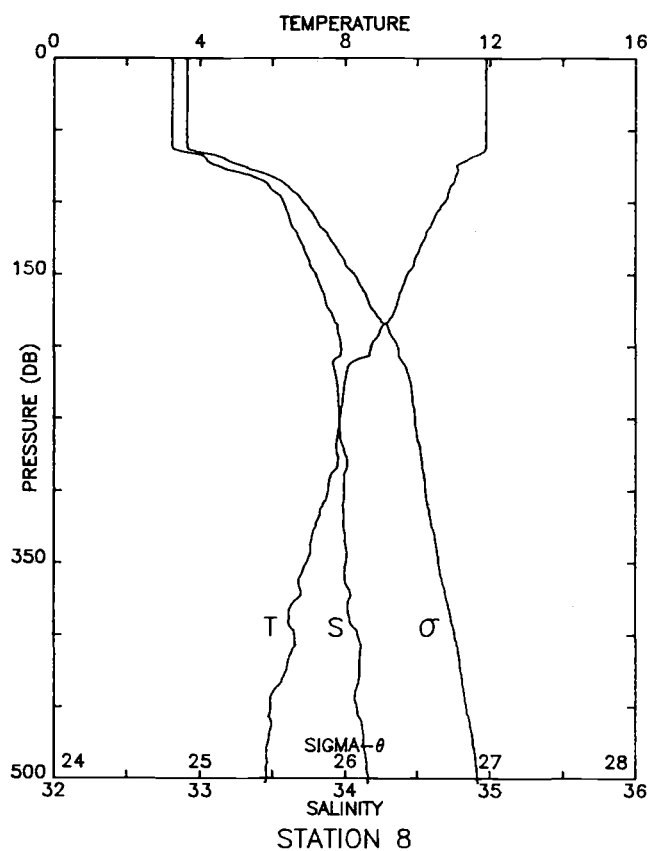
STA NO 6 LAT: 37 29.8 N LONG: 124 33.0 W
 19 MAY 1987 0656 GMT PROBE 2561 DEPTH 4040M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP		TEMP	THETA				
1	12.046	32.839	12.046	24.903	304.1	0.003	67.4	1.14
10	12.043	32.839	12.041	24.904	304.1	0.030	85.9	1.31
20	12.044	32.839	12.041	24.904	304.4	0.061	86.5	1.45
30	12.045	32.839	12.041	24.904	304.7	0.091	86.5	1.37
40	12.046	32.839	12.041	24.904	304.9	0.122	86.6	1.34
50	12.046	32.839	12.040	24.904	305.1	0.152	86.2	1.28
60	11.467	32.864	11.459	25.030	293.3	0.182	86.7	0.81
70	10.327	33.026	10.319	25.358	262.3	0.210	90.3	0.27
80	9.816	33.166	9.807	25.552	243.9	0.235	90.7	0.17
90	9.495	33.366	9.485	25.761	224.2	0.259	90.8	0.13
100	9.384	33.482	9.373	25.870	214.0	0.281	90.6	0.14
110	9.099	33.704	9.087	26.090	193.3	0.301	90.4	0.14
120	9.232	33.840	9.219	26.176	185.4	0.320	90.3	0.16
130	9.237	33.867	9.223	26.195	183.8	0.338	90.2	0.17
140	9.205	33.898	9.190	26.225	181.1	0.357	90.1	0.17
150	9.106	33.924	9.090	26.262	177.9	0.375	89.9	0.16
175	8.960	33.953	8.941	26.308	174.0	0.418	89.9	0.16
200	8.806	33.976	8.784	26.351	170.3	0.461	89.9	0.16
225	8.524	34.000	8.501	26.413	164.8	0.503	90.1	0.16
250	8.393	34.035	8.367	26.461	160.6	0.544	90.3	0.16
300	7.405	34.054	7.376	26.621	145.7	0.620	91.0	0.15
400	6.388	34.119	6.352	26.812	128.5	0.757	91.0	0.15
500	5.589	34.153	5.547	26.940	117.0	0.880	91.0	0.15
501	5.597	34.157	5.555	26.942	116.8	0.881	91.0	0.15



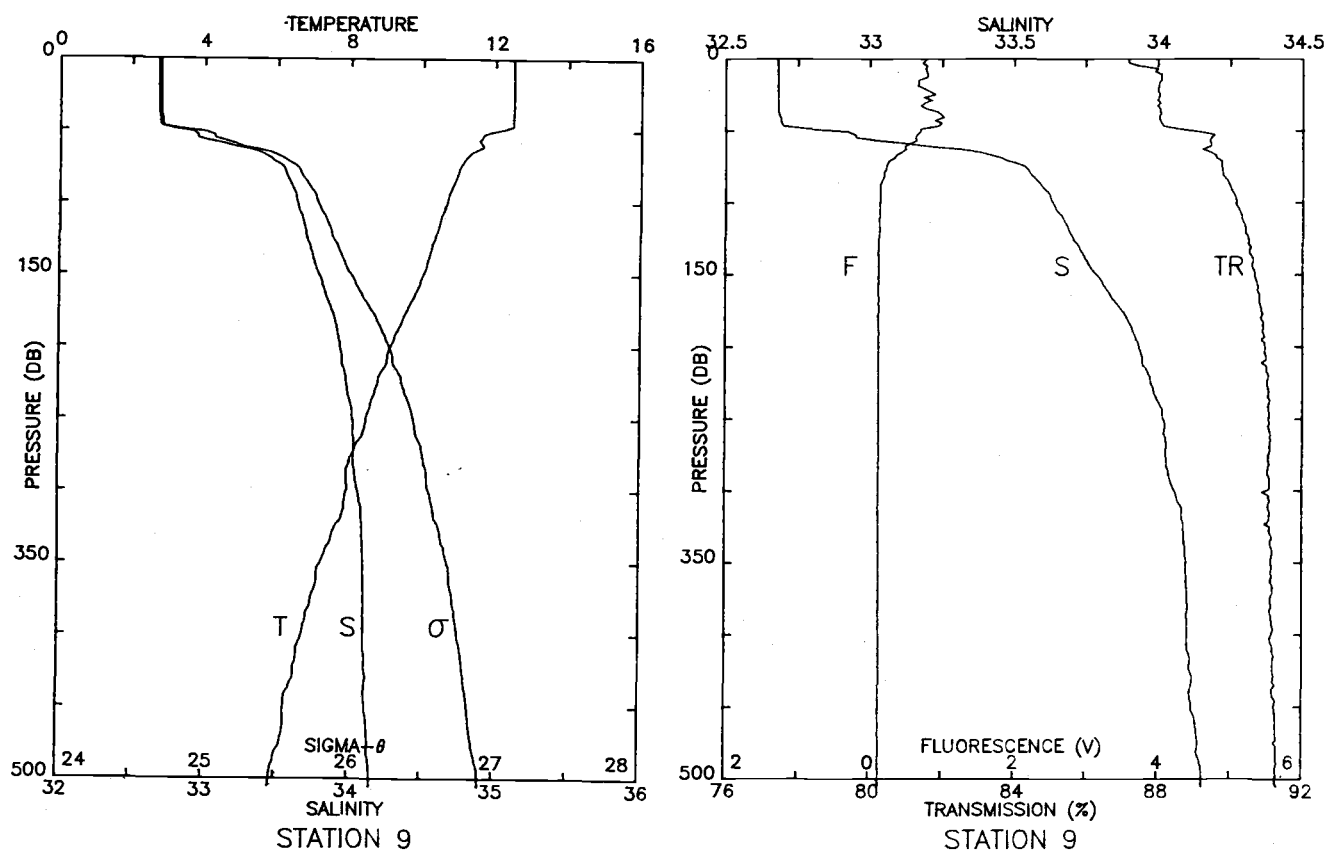
STA NO 7 LAT: 37 37.3 N LONG: 124 37.4 W
 19 MAY 1987 0834 GMT PROBE 2561 DEPTH 4040M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	12.065	32.781	12.064	24.855	308.7	0.009	81.1	1.49
10	12.063	32.781	12.062	24.855	308.8	0.031	85.4	1.68
20	12.065	32.781	12.062	24.855	309.1	0.062	85.4	1.27
30	12.066	32.781	12.062	24.855	309.3	0.093	85.4	1.57
40	12.066	32.781	12.061	24.855	309.5	0.124	85.3	1.60
50	12.064	32.781	12.058	24.856	309.7	0.155	85.4	1.92
60	11.999	32.793	11.992	24.878	307.9	0.186	85.7	1.85
70	11.642	32.975	11.634	25.085	288.3	0.216	89.0	0.85
80	11.262	33.281	11.252	25.393	259.3	0.243	90.0	0.29
90	10.838	33.451	10.828	25.601	239.7	0.268	90.2	0.18
100	10.548	33.550	10.536	25.728	227.8	0.291	90.2	0.14
110	10.250	33.650	10.237	25.858	215.6	0.313	90.3	0.14
120	10.091	33.692	10.077	25.918	210.1	0.334	90.4	0.16
130	9.899	33.741	9.884	25.989	203.5	0.355	90.5	0.13
140	9.637	33.785	9.621	26.067	196.3	0.375	90.7	0.14
150	9.187	33.770	9.171	26.128	190.5	0.394	90.7	0.13
175	8.359	33.802	8.341	26.282	176.1	0.440	90.6	0.13
200	8.346	33.946	8.326	26.397	165.7	0.483	90.8	0.13
225	8.170	33.988	8.147	26.458	160.4	0.523	90.9	0.14
250	7.903	34.008	7.878	26.513	155.5	0.563	91.0	0.13
300	7.296	34.033	7.267	26.620	145.8	0.638	91.1	0.14
400	6.411	34.096	6.376	26.790	130.6	0.776	91.1	0.14
500	5.692	34.142	5.649	26.918	119.1	0.900	91.2	0.14
505	5.664	34.147	5.621	26.926	118.4	0.906	91.3	0.14



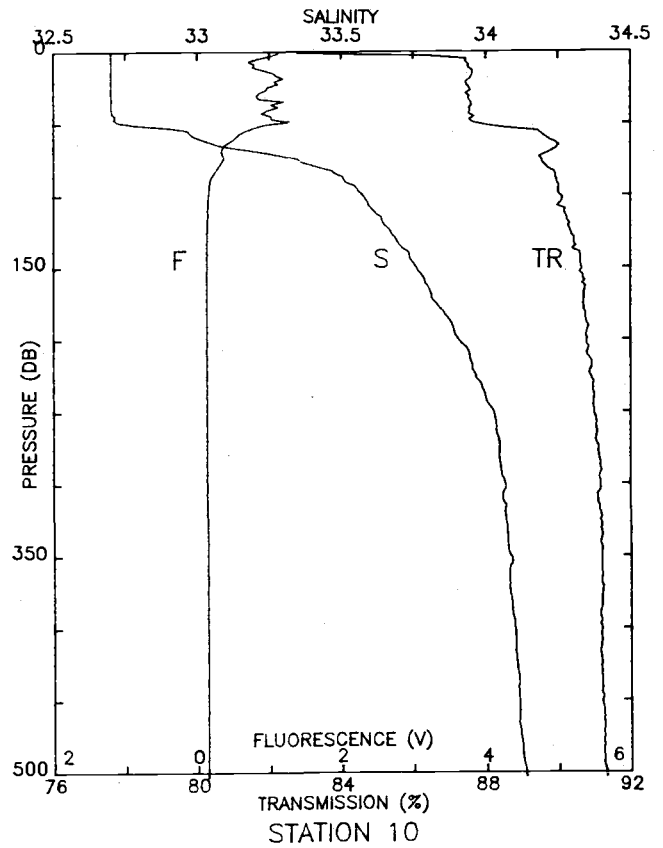
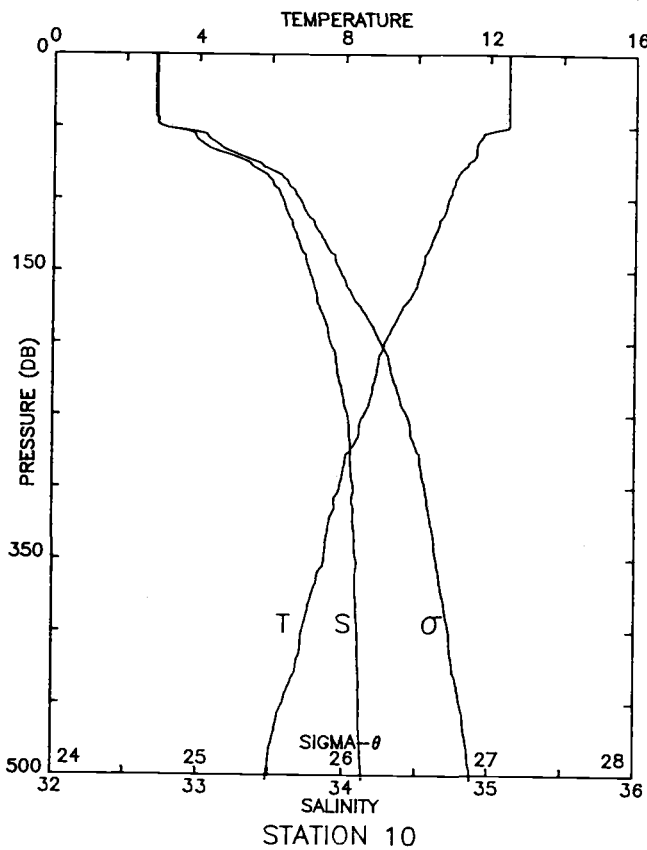
STA NO 8 LAT: 37 44.8 N LONG: 124 41.8 W
19 MAY 1987 1011 GMT PROBE 2561 DEPTH 3874M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.888	32.807	11.888	24.907	303.6	0.003	85.2	1.32
10	11.884	32.807	11.882	24.909	303.7	0.030	86.3	1.49
20	11.882	32.807	11.880	24.909	303.9	0.061	86.3	1.27
30	11.884	32.807	11.880	24.909	304.1	0.091	86.2	1.54
40	11.885	32.806	11.880	24.909	304.4	0.122	86.3	1.62
50	11.885	32.806	11.879	24.909	304.6	0.152	86.2	1.61
60	11.886	32.807	11.878	24.910	304.8	0.182	86.3	1.44
70	11.412	33.044	11.404	25.181	279.2	0.212	89.7	0.49
80	11.082	33.307	11.072	25.445	254.3	0.239	90.3	0.22
90	10.892	33.487	10.882	25.619	238.0	0.263	90.1	0.17
100	10.746	33.577	10.734	25.715	229.0	0.286	90.2	0.14
110	10.476	33.614	10.464	25.791	222.0	0.309	90.2	0.14
120	10.265	33.661	10.251	25.864	215.2	0.331	90.3	0.13
130	10.092	33.709	10.077	25.931	209.1	0.352	90.4	0.14
140	9.922	33.751	9.906	25.993	203.4	0.373	90.5	0.13
150	9.718	33.799	9.701	26.065	196.7	0.393	89.9	0.13
175	9.363	33.895	9.343	26.198	184.5	0.441	90.0	0.13
200	8.719	33.975	8.698	26.363	169.1	0.484	90.9	0.13
225	7.970	33.943	7.948	26.451	160.8	0.526	90.6	0.13
250	7.843	33.959	7.819	26.483	158.2	0.566	90.6	0.13
300	7.525	33.993	7.496	26.556	152.0	0.643	90.6	0.13
400	6.611	34.089	6.575	26.758	133.7	0.786	91.1	0.14
500	5.833	34.159	5.790	26.915	119.6	0.912	91.2	0.14
503	5.805	34.160	5.762	26.919	119.3	0.916	91.2	0.14



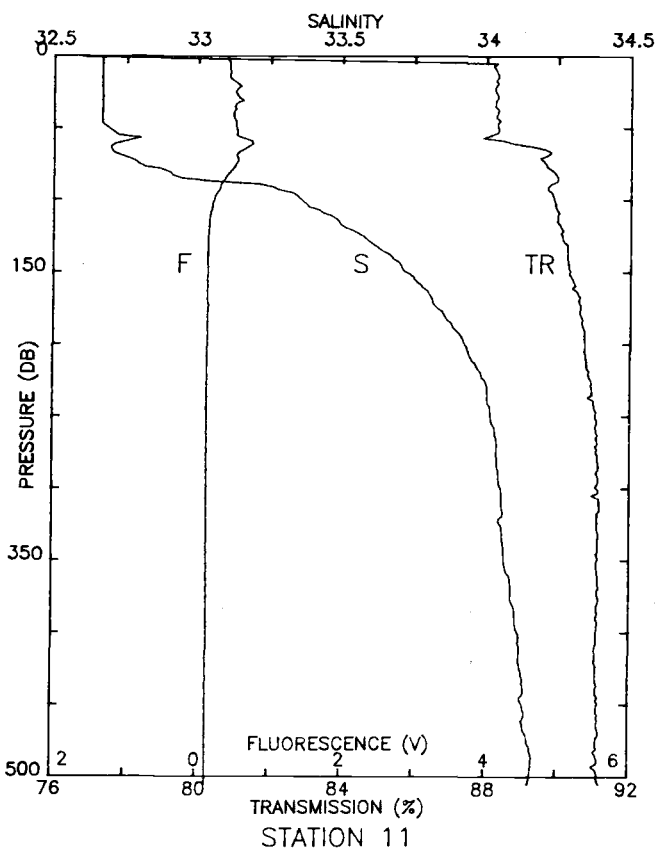
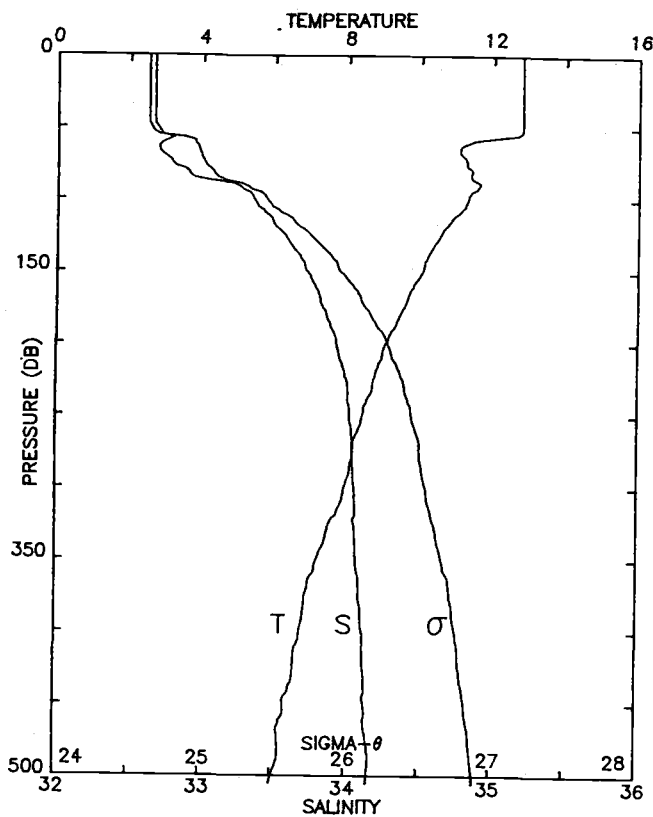
STA NO 9 LAT: 37 51.8 N LONG: 124 47.2 W
 19 MAY 1987 1149 GMT PROBE 2561 DEPTH 3763M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP			THETA				
1	12.495	32.678	12.494	24.693	324.0	0.003	87.2	0.77
10	12.498	32.679	12.497	24.694	324.2	0.032	88.0	0.79
20	12.502	32.679	12.499	24.693	324.5	0.065	88.0	0.71
30	12.499	32.680	12.495	24.695	324.6	0.097	88.0	0.80
40	12.487	32.686	12.482	24.702	324.2	0.130	88.0	1.00
50	12.047	32.854	12.041	24.916	304.0	0.162	88.8	0.69
60	11.634	33.167	11.627	25.235	273.8	0.191	89.4	0.52
70	11.153	33.464	11.144	25.554	243.7	0.216	89.7	0.30
80	10.958	33.557	10.949	25.661	233.7	0.240	89.8	0.20
90	10.790	33.604	10.779	25.728	227.6	0.263	90.0	0.14
100	10.658	33.635	10.646	25.775	223.3	0.285	90.2	0.14
110	10.508	33.669	10.495	25.828	218.5	0.308	90.3	0.13
120	10.399	33.693	10.385	25.866	215.1	0.329	90.4	0.13
130	10.269	33.726	10.254	25.915	210.7	0.351	90.5	0.13
140	10.155	33.754	10.139	25.956	207.0	0.371	90.6	0.13
150	10.025	33.789	10.008	26.006	202.4	0.392	90.7	0.13
175	9.583	33.877	9.564	26.148	189.3	0.441	90.9	0.14
200	9.117	33.935	9.096	26.269	178.1	0.487	91.0	0.13
225	8.769	33.976	8.745	26.357	170.2	0.530	91.0	0.13
250	8.446	34.020	8.420	26.441	162.6	0.572	91.1	0.13
300	7.934	34.060	7.904	26.550	152.8	0.650	91.0	0.13
400	6.721	34.104	6.684	26.756	134.1	0.792	91.1	0.14
500	5.871	34.155	5.828	26.907	120.4	0.920	91.3	0.13
505	5.851	34.156	5.808	26.910	120.2	0.926	91.3	0.14



STA NO 10 LAT: 37 59.2 N LONG: 124 51.2 W
19 MAY 1987 1326 GMT PROBE 2561 DEPTH 3758M

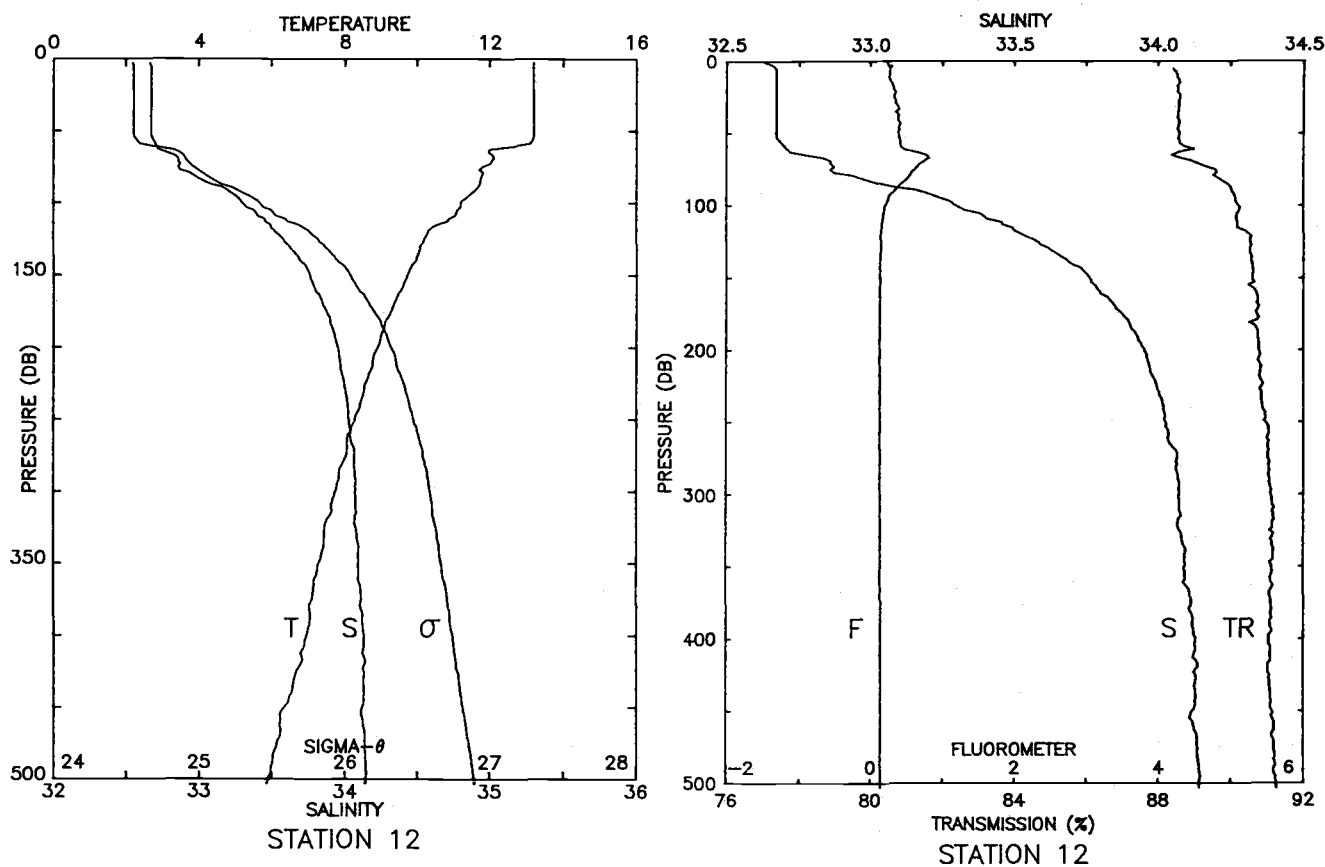
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.501	32.699	12.501	24.708	322.6	0.003	82.8	1.13
10	12.502	32.699	12.501	24.708	322.8	0.032	87.5	0.78
20	12.507	32.699	12.504	24.708	323.1	0.065	87.5	1.13
30	12.507	32.699	12.503	24.708	323.3	0.097	87.5	0.84
40	12.510	32.700	12.505	24.708	323.6	0.129	87.5	1.05
50	12.496	32.752	12.490	24.751	319.7	0.161	87.8	1.11
60	11.689	33.003	11.681	25.098	286.9	0.191	89.7	0.52
70	11.602	33.227	11.593	25.288	269.1	0.219	89.7	0.34
80	11.228	33.413	11.218	25.501	249.0	0.245	89.7	0.29
90	11.014	33.513	11.004	25.617	238.2	0.269	90.0	0.18
100	10.866	33.576	10.854	25.694	231.1	0.293	90.1	0.15
110	10.752	33.611	10.739	25.740	226.9	0.316	90.2	0.14
120	10.562	33.650	10.548	25.804	221.0	0.338	90.3	0.14
130	10.391	33.690	10.376	25.865	215.4	0.360	90.4	0.13
140	10.202	33.735	10.186	25.933	209.1	0.381	90.6	0.13
150	10.113	33.761	10.096	25.968	206.0	0.402	90.6	0.13
175	9.598	33.832	9.579	26.110	192.9	0.452	90.7	0.13
200	9.098	33.906	9.077	26.250	180.0	0.498	90.8	0.13
225	8.837	33.965	8.813	26.338	172.0	0.542	90.9	0.13
250	8.534	34.026	8.508	26.432	163.4	0.584	91.0	0.13
300	7.885	34.065	7.855	26.561	151.7	0.663	91.2	0.13
400	6.878	34.097	6.841	26.729	136.7	0.807	91.2	0.14
500	5.935	34.135	5.892	26.883	122.8	0.937	91.3	0.14
503	5.923	34.137	5.879	26.886	122.5	0.941	91.3	0.14



STA NO 11 LAT: 38 6.3 N LONG: 124 56.1 W
 19 MAY 1987 1514 GMT PROBE 2561 DEPTH 3905M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.795	32.666	12.794	24.626	330.4	0.003	76.8	0.40
10	12.796	32.666	12.794	24.626	330.7	0.033	88.3	0.43
20	12.796	32.665	12.793	24.626	330.9	0.066	88.3	0.56
30	12.798	32.666	12.794	24.626	331.1	0.099	88.3	0.59
40	12.799	32.665	12.793	24.625	331.5	0.132	88.3	0.48
50	12.795	32.686	12.788	24.643	330.0	0.165	88.3	0.52
60	11.371	32.733	11.364	24.946	301.3	0.197	88.6	0.75
70	11.161	32.742	11.152	24.991	297.2	0.227	89.6	0.54
80	11.403	32.890	11.393	25.063	290.6	0.257	89.9	0.45
90	11.620	33.236	11.609	25.292	269.1	0.285	89.8	0.31
100	11.292	33.358	11.280	25.447	254.6	0.311	89.9	0.22
110	11.024	33.447	11.011	25.564	243.6	0.336	90.0	0.17
120	10.657	33.522	10.643	25.688	232.0	0.360	90.1	0.15
130	10.410	33.605	10.395	25.795	222.0	0.383	90.2	0.14
140	10.180	33.676	10.164	25.891	213.1	0.404	90.3	0.14
150	10.045	33.724	10.028	25.951	207.6	0.425	90.3	0.14
175	9.535	33.831	9.516	26.120	191.9	0.475	90.6	0.14
200	9.043	33.925	9.022	26.273	177.7	0.521	90.8	0.13
225	8.714	33.997	8.690	26.382	167.8	0.564	90.9	0.13
250	8.419	34.018	8.393	26.444	162.3	0.606	91.0	0.13
300	7.937	34.055	7.907	26.546	153.2	0.684	91.1	0.13
400	6.754	34.116	6.717	26.761	133.6	0.827	91.1	0.14
500	6.034	34.160	5.990	26.890	122.2	0.955	91.2	0.14
505	5.991	34.156	5.947	26.892	122.0	0.961	91.2	0.14

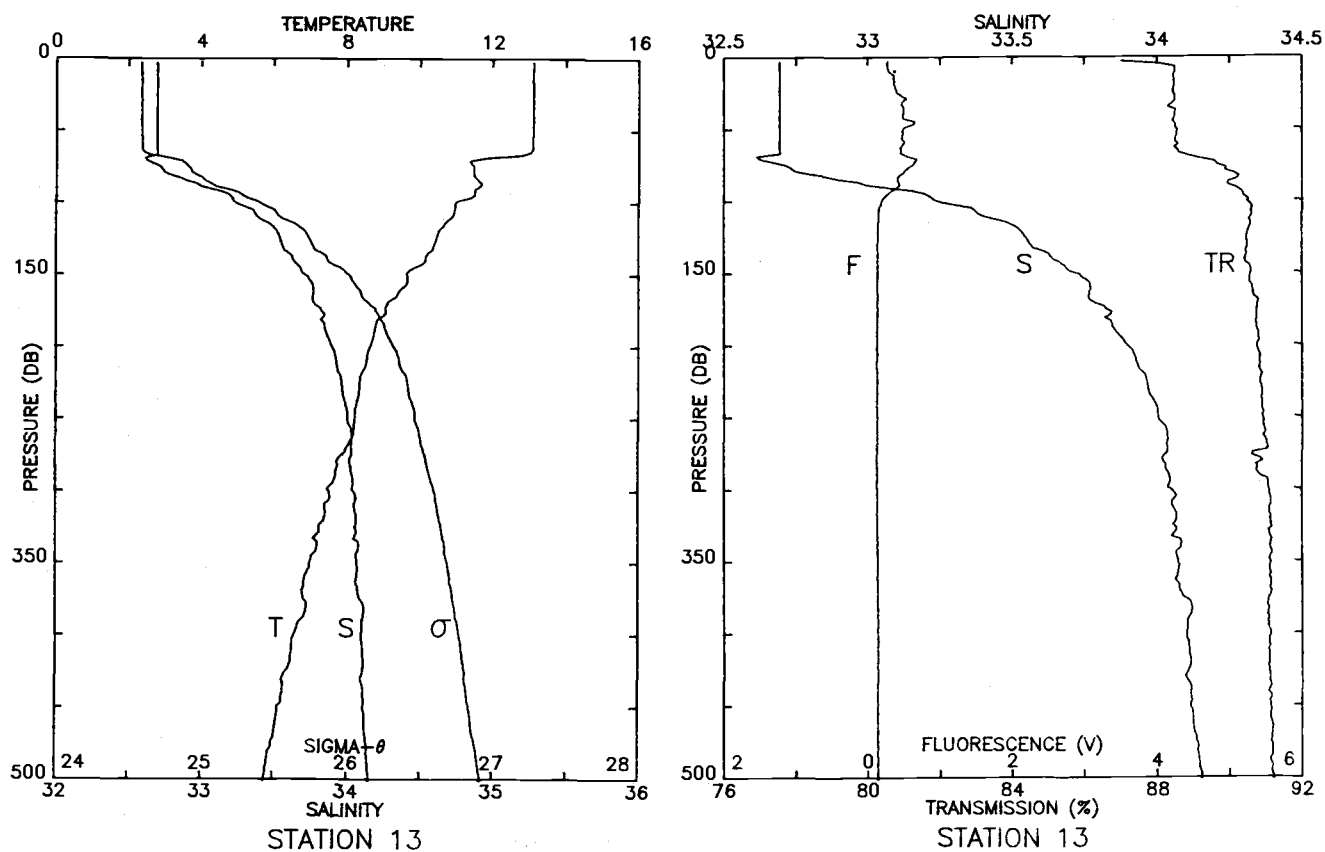
LIN INT SAL 47-55 DB



STA NO 12 LAT: 38 13.9 N LONG: 125 0.5 W
 19 MAY 1987 1720 GMT PROBE 2561 DEPTH 3900M

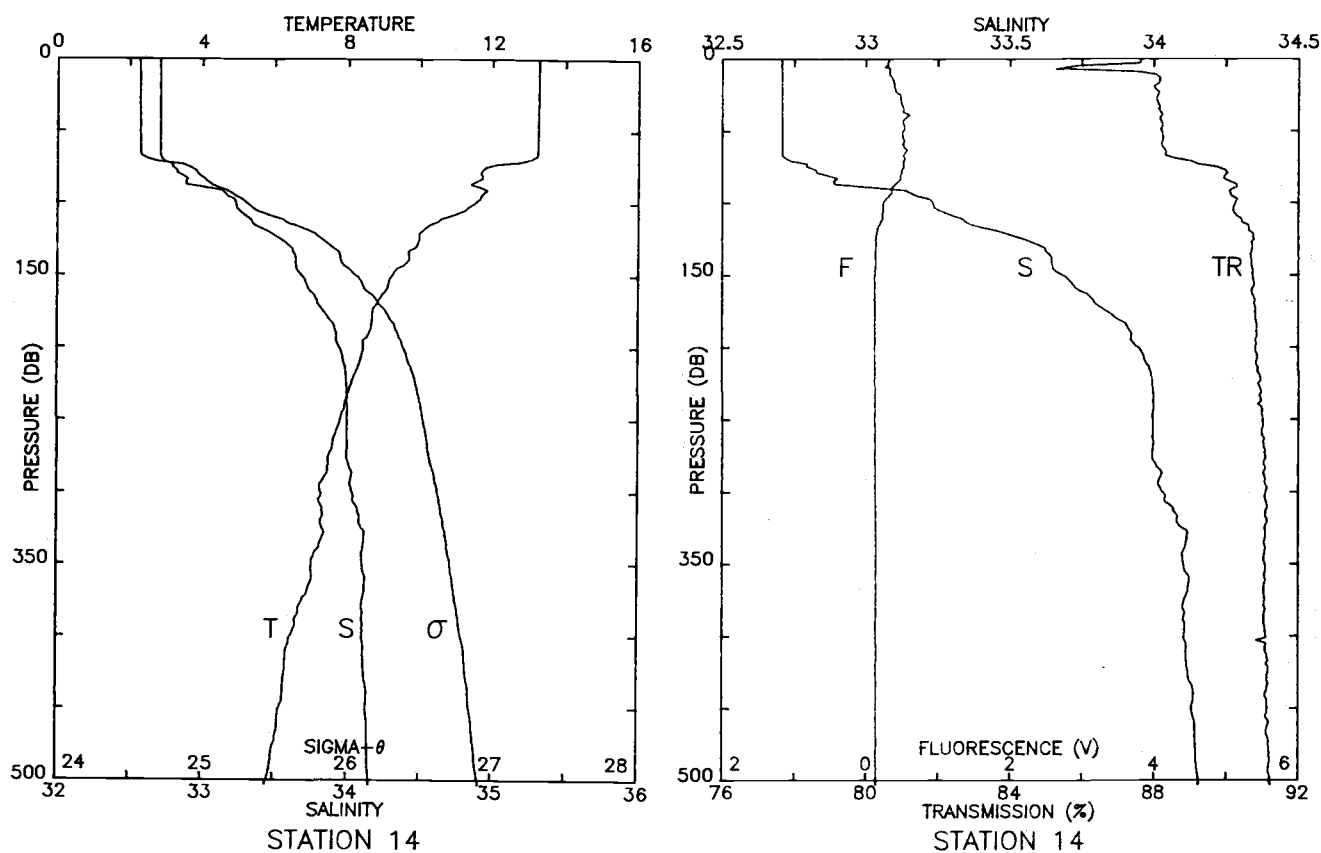
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP			THETA				
3	13.191	32.660	13.191	24.544	338.3	0.010	47.5	0.25
10	13.188	32.670	13.187	24.552	337.6	0.034	88.5	0.26
20	13.189	32.670	13.187	24.552	337.9	0.068	88.5	0.34
30	13.192	32.672	13.188	24.553	338.1	0.101	88.6	0.37
40	13.195	32.671	13.189	24.553	338.4	0.135	88.6	0.39
50	13.194	32.671	13.188	24.553	338.7	0.169	88.6	0.39
60	12.846	32.704	12.838	24.647	329.9	0.203	88.8	0.45
70	12.081	32.859	12.072	24.914	304.7	0.234	89.0	0.72
80	11.795	32.950	11.785	25.038	293.1	0.264	89.6	0.53
90	11.637	33.176	11.626	25.243	273.8	0.292	90.0	0.33
100	11.196	33.301	11.184	25.420	257.1	0.319	90.2	0.21
110	10.958	33.430	10.944	25.563	243.7	0.344	82.8	0.17
120	10.293	33.531	10.280	25.758	225.3	0.367	90.5	0.15
130	10.087	33.623	10.072	25.865	215.3	0.389	83.6	0.14
140	9.942	33.698	9.926	25.948	207.6	0.410	90.6	0.13
150	9.712	33.763	9.695	26.037	199.3	0.431	90.6	0.14
175	9.261	33.876	9.242	26.200	184.3	0.479	90.7	0.13
200	8.892	33.953	8.871	26.319	173.3	0.523	90.8	0.13
225	8.546	33.996	8.522	26.407	165.4	0.566	90.9	0.13
250	8.263	34.027	8.237	26.474	159.3	0.606	91.0	0.13
300	7.735	34.073	7.705	26.589	149.0	0.683	91.1	0.13
400	6.949	34.130	6.911	26.746	135.3	0.825	91.0	0.14
500	5.896	34.142	5.853	26.894	121.7	0.954	91.3	0.14
503	5.876	34.142	5.833	26.895	121.5	0.957	91.3	0.14

LIN INT SAL 53-63 DB



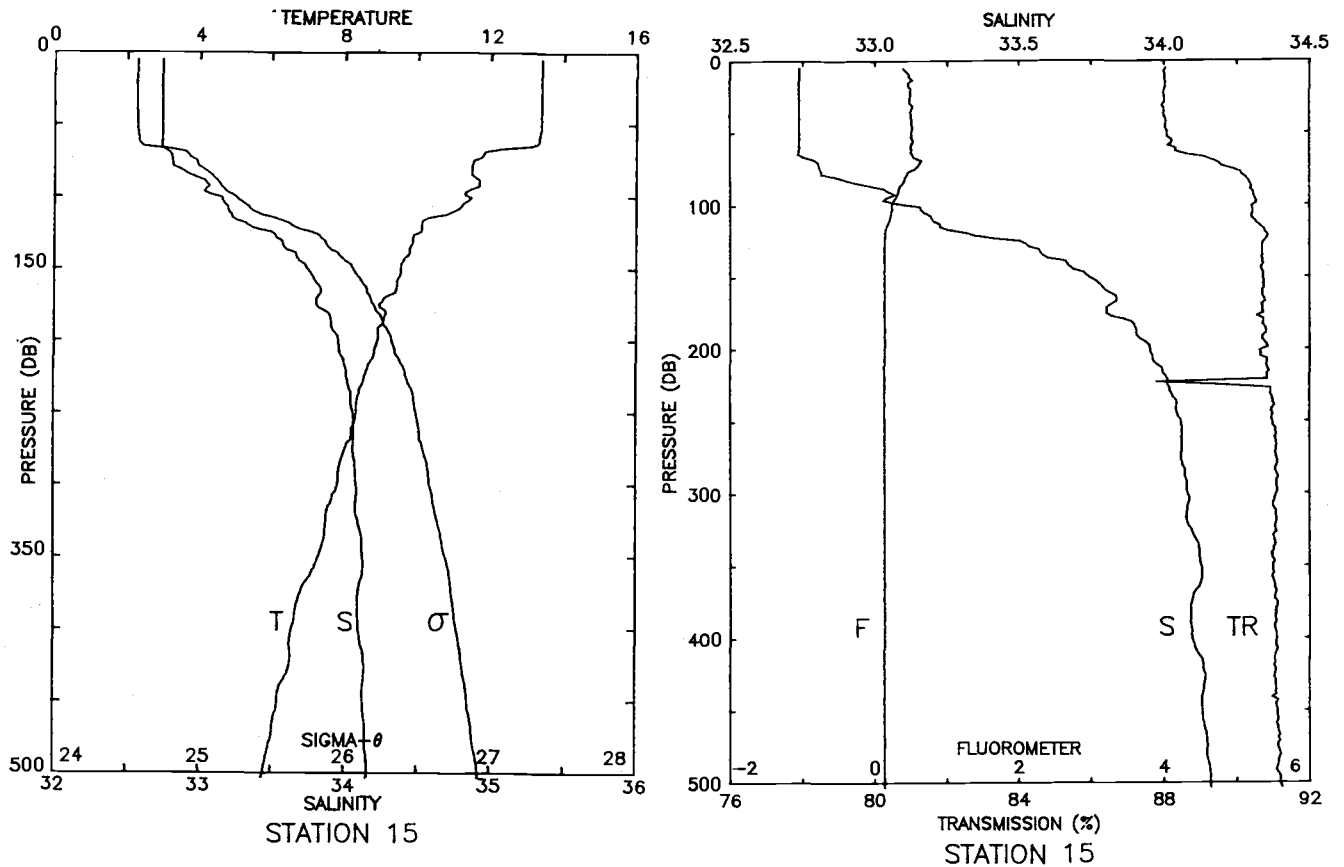
STA NO 13 LAT: 38 21.0 N LONG: 125 5.0 W
 19 MAY 1987 1900 GMT PROBE 2561 DEPTH 4403M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	13.113	32.692	13.113	24.584	334.5	0.010	87.0	0.28
10	13.098	32.693	13.096	24.587	334.3	0.033	88.5	0.30
20	13.103	32.693	13.100	24.587	334.6	0.067	88.5	0.37
30	13.103	32.692	13.099	24.587	334.9	0.100	88.5	0.51
40	13.103	32.692	13.098	24.587	335.1	0.134	88.5	0.49
50	13.098	32.693	13.091	24.589	335.3	0.167	88.5	0.49
60	13.090	32.692	13.082	24.590	335.4	0.201	88.5	0.50
70	11.585	32.620	11.576	24.819	313.6	0.234	89.0	0.61
80	11.480	32.766	11.470	24.953	301.1	0.265	90.0	0.50
90	11.577	33.035	11.566	25.144	283.2	0.294	90.0	0.42
100	11.002	33.239	10.990	25.407	258.4	0.321	90.5	0.19
110	10.882	33.392	10.869	25.548	245.2	0.346	90.6	0.15
120	10.519	33.525	10.505	25.715	229.5	0.370	90.5	0.14
130	10.374	33.562	10.359	25.769	224.6	0.392	90.5	0.14
140	10.147	33.639	10.131	25.867	215.4	0.414	90.4	0.14
150	9.639	33.718	9.623	26.015	201.4	0.435	90.6	0.14
175	9.041	33.826	9.022	26.195	184.6	0.483	90.8	0.14
200	8.623	33.897	8.602	26.317	173.4	0.528	90.8	0.13
225	8.338	33.964	8.315	26.413	164.7	0.570	90.9	0.13
250	8.204	34.003	8.179	26.464	160.2	0.611	90.9	0.13
300	7.495	34.044	7.466	26.601	147.8	0.688	91.1	0.13
400	6.558	34.101	6.522	26.775	132.1	0.828	91.1	0.14
500	5.757	34.153	5.715	26.919	119.1	0.954	91.2	0.14
501	5.757	34.154	5.715	26.920	119.0	0.955	91.2	0.14



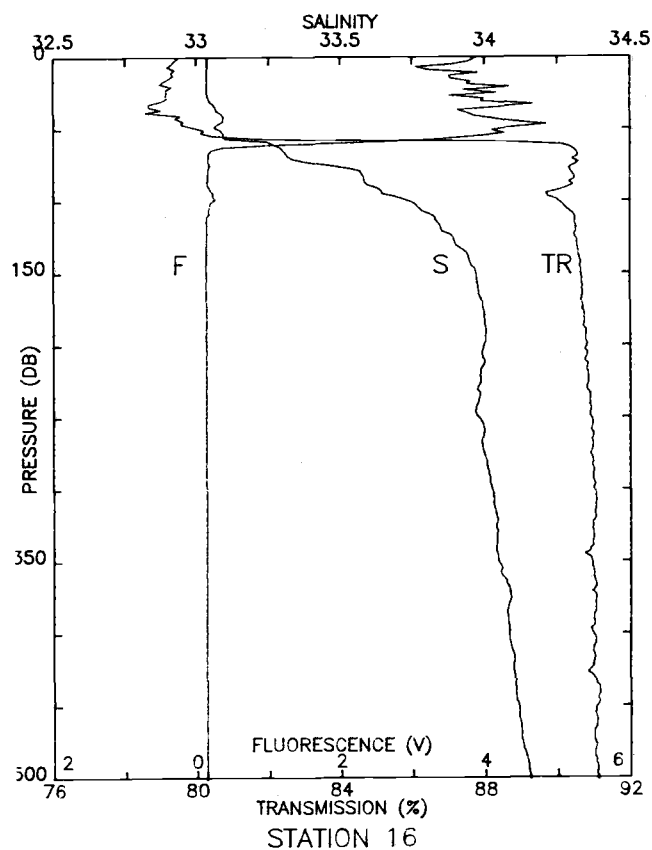
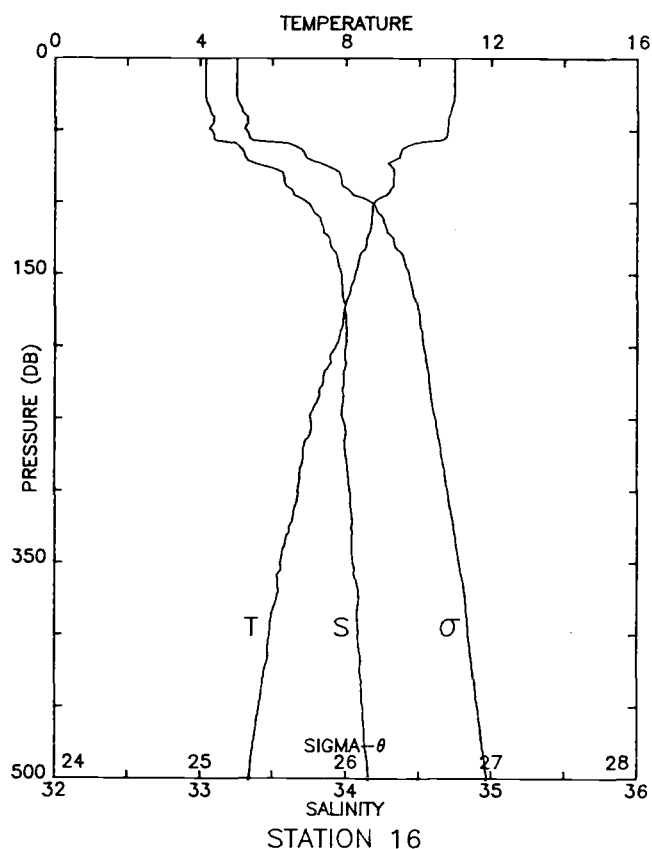
STA NO 14 LAT: 38 28.5 N LONG: 125 9.7 W
 19 MAY 1987 2040 GMT PROBE 2561 DEPTH 3736M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.264	32.705	13.264	24.564	336.3	0.003	87.6	0.32
10	13.258	32.706	13.256	24.566	336.4	0.034	87.8	0.33
20	13.258	32.706	13.256	24.566	336.6	0.067	88.0	0.40
30	13.259	32.706	13.255	24.566	336.9	0.101	88.1	0.49
40	13.252	32.706	13.247	24.568	336.9	0.135	88.2	0.58
50	13.251	32.707	13.244	24.569	337.1	0.168	88.2	0.52
60	13.241	32.707	13.233	24.571	337.2	0.202	88.2	0.52
70	12.930	32.728	12.920	24.649	330.0	0.236	88.8	0.53
80	11.693	32.847	11.683	24.977	298.9	0.267	90.0	0.48
90	11.761	33.073	11.749	25.140	283.6	0.296	90.2	0.36
100	11.503	33.232	11.491	25.311	267.6	0.323	90.3	0.24
110	10.694	33.320	10.681	25.524	247.4	0.349	90.4	0.23
120	10.011	33.466	9.997	25.755	225.5	0.373	90.7	0.15
130	9.881	33.610	9.866	25.889	213.0	0.395	90.7	0.13
140	9.650	33.644	9.634	25.955	206.9	0.416	90.7	0.13
150	9.203	33.685	9.186	26.059	197.1	0.436	90.7	0.12
175	8.666	33.837	8.648	26.263	178.1	0.483	90.8	0.13
200	8.427	33.945	8.406	26.384	167.0	0.526	90.8	0.12
225	8.103	33.993	8.080	26.472	159.0	0.566	90.9	0.13
250	7.785	33.995	7.760	26.520	154.7	0.606	91.0	0.12
300	7.260	34.032	7.232	26.624	145.4	0.681	91.1	0.13
400	6.449	34.104	6.413	26.792	130.5	0.819	91.1	0.14
500	5.812	34.156	5.769	26.914	119.6	0.944	91.2	0.14
503	5.788	34.156	5.745	26.918	119.3	0.947	91.2	0.14



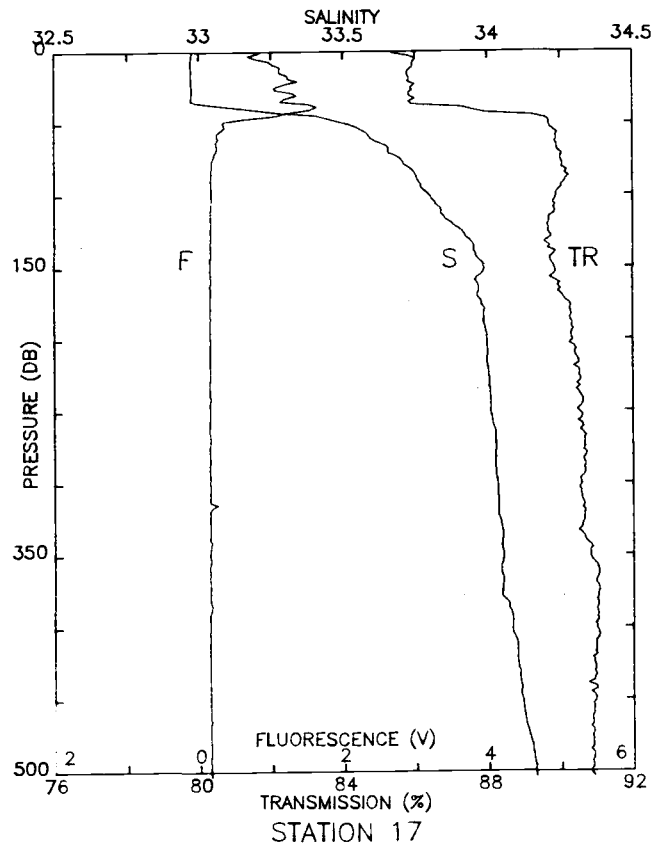
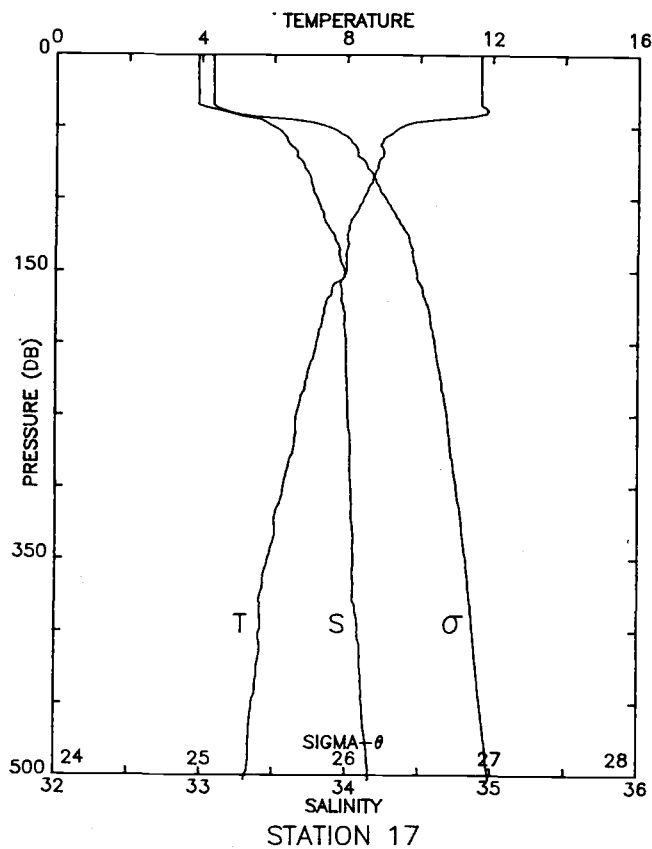
STA NO 15 LAT: 38 35.6 N LONG: 125 14.3 W
 19 MAY 1987 2239 GMT PROBE 2561 DEPTH 3546M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
5	13.377	32.738	13.376	24.567	336.1	0.017	88.0	0.39
10	13.375	32.738	13.374	24.568	336.2	0.034	88.0	0.47
20	13.384	32.738	13.381	24.566	336.6	0.067	88.0	0.50
30	13.385	32.738	13.381	24.566	336.9	0.101	88.0	0.50
40	13.381	32.738	13.376	24.567	337.0	0.135	88.0	0.51
50	13.374	32.738	13.368	24.569	337.2	0.168	88.1	0.51
60	13.318	32.738	13.310	24.580	336.3	0.202	88.2	0.50
70	11.812	32.794	11.803	24.913	304.7	0.235	89.4	0.63
80	11.481	32.838	11.471	25.008	295.9	0.265	90.2	0.43
90	11.685	33.041	11.674	25.129	284.7	0.294	90.3	0.33
100	11.383	33.117	11.370	25.244	273.9	0.322	90.5	0.24
110	11.034	33.202	11.021	25.372	261.9	0.348	90.5	0.21
120	10.101	33.332	10.087	25.635	236.9	0.373	90.8	0.14
130	9.852	33.554	9.837	25.850	216.6	0.396	90.7	0.13
140	9.754	33.667	9.739	25.955	206.9	0.417	90.7	0.13
150	9.529	33.744	9.513	26.053	197.8	0.437	90.7	0.14
175	8.928	33.803	8.910	26.196	184.5	0.485	90.7	0.13
200	8.885	33.952	8.864	26.320	173.3	0.530	87.2	0.13
225	8.531	34.014	8.508	26.423	163.8	0.572	89.7	0.14
250	8.316	34.059	8.291	26.491	157.7	0.612	91.0	0.14
300	7.806	34.081	7.776	26.586	149.4	0.688	91.1	0.14
400	6.552	34.096	6.516	26.772	132.4	0.828	91.1	0.14
500	5.777	34.160	5.734	26.922	118.8	0.954	91.2	0.14
503	5.755	34.159	5.712	26.924	118.6	0.957	91.2	0.14



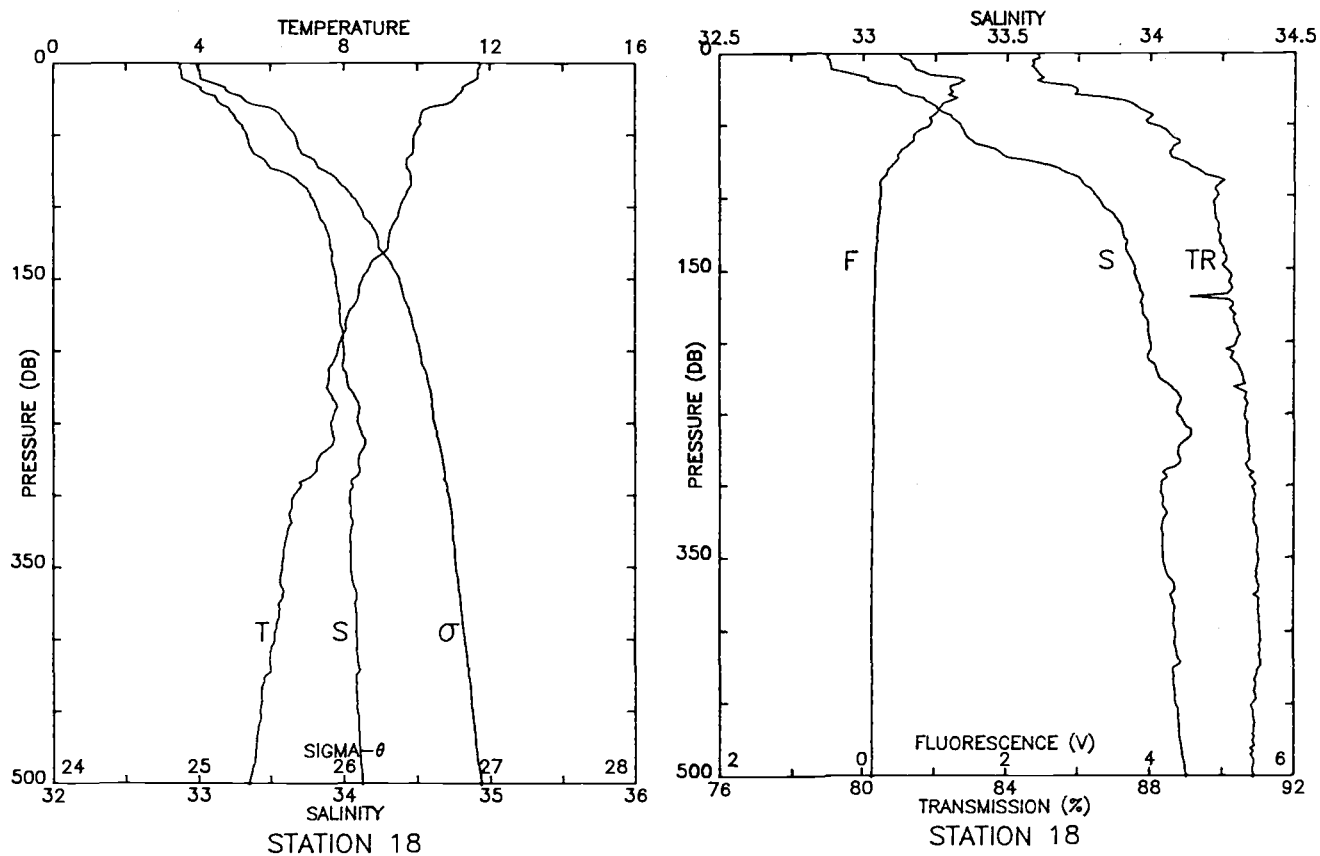
STA NO 16 LAT: 39 3.8 N LONG: 124 26.4 W
20 MAY 1987 1256 GMT PROBE 2561 DEPTH 3303M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.977	33.038	10.977	25.252	270.8	0.003	79.5	3.86
10	10.980	33.037	10.979	25.251	271.1	0.027	79.3	3.57
20	10.982	33.036	10.980	25.251	271.4	0.054	79.2	4.06
30	10.957	33.044	10.954	25.262	270.6	0.081	79.1	3.97
40	10.822	33.085	10.818	25.317	265.5	0.108	79.1	3.79
50	10.776	33.071	10.770	25.314	266.0	0.135	80.0	4.25
60	9.755	33.256	9.748	25.632	235.9	0.161	89.2	1.86
70	9.354	33.324	9.347	25.751	224.8	0.183	90.5	0.16
80	9.285	33.571	9.276	25.956	205.5	0.205	90.4	0.16
90	9.235	33.614	9.226	25.997	201.8	0.225	90.3	0.16
100	8.753	33.739	8.743	26.172	185.3	0.245	90.0	0.23
110	8.683	33.819	8.671	26.245	178.5	0.263	90.5	0.16
120	8.639	33.851	8.626	26.277	175.7	0.281	90.5	0.14
130	8.537	33.899	8.524	26.330	170.8	0.298	90.5	0.14
140	8.341	33.945	8.327	26.397	164.6	0.315	90.6	0.13
150	8.238	33.970	8.223	26.432	161.4	0.331	90.7	0.13
175	7.931	33.993	7.914	26.496	155.7	0.371	90.7	0.13
200	7.710	33.997	7.691	26.531	152.7	0.409	90.8	0.13
225	7.379	33.985	7.358	26.570	149.3	0.447	90.9	0.13
250	7.035	33.978	7.011	26.612	145.5	0.484	90.9	0.13
300	6.700	34.026	6.673	26.696	138.2	0.555	91.0	0.14
400	5.923	34.083	5.889	26.842	125.2	0.686	91.0	0.14
500	5.353	34.155	5.312	26.969	113.9	0.805	91.1	0.14
501	5.352	34.155	5.311	26.970	113.9	0.806	91.1	0.14



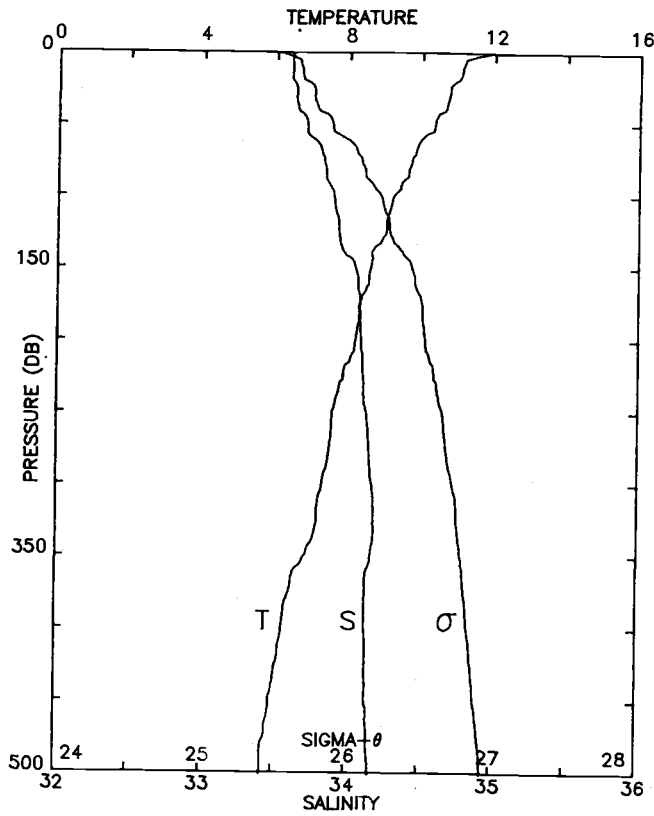
STA NO 17 LAT: 38 45.0 N LONG: 124 14.0 W
20 MAY 1987 1540 GMT PROBE 2561 DEPTH 3298M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.695	32.977	11.694	25.075	287.6	0.003	85.4	0.84
10	11.672	32.971	11.671	25.075	287.9	0.029	85.9	1.07
20	11.676	32.972	11.673	25.076	288.1	0.058	85.8	1.30
30	11.684	32.974	11.680	25.076	288.3	0.086	85.8	1.33
40	11.845	33.163	11.840	25.193	277.4	0.115	87.4	1.59
50	9.494	33.498	9.489	25.864	213.6	0.139	89.7	0.33
60	8.966	33.593	8.959	26.023	198.6	0.160	89.9	0.25
70	8.981	33.659	8.973	26.072	194.2	0.179	90.0	0.22
80	8.802	33.720	8.794	26.149	187.1	0.198	90.1	0.17
90	8.641	33.759	8.631	26.204	182.0	0.217	90.1	0.15
100	8.441	33.797	8.431	26.265	176.4	0.235	89.9	0.16
110	8.245	33.838	8.234	26.326	170.7	0.252	89.8	0.15
120	8.055	33.877	8.043	26.386	165.2	0.269	89.7	0.16
130	8.030	33.930	8.017	26.431	161.1	0.285	89.7	0.15
140	7.987	33.955	7.973	26.457	158.8	0.301	89.8	0.15
150	7.994	33.988	7.979	26.482	156.6	0.317	89.8	0.15
175	7.398	33.979	7.381	26.562	149.3	0.355	90.3	0.15
200	7.169	33.996	7.150	26.607	145.3	0.392	90.3	0.15
225	6.908	34.002	6.888	26.648	141.7	0.428	90.5	0.15
250	6.627	34.010	6.604	26.692	137.8	0.463	90.5	0.15
300	6.260	34.032	6.234	26.758	132.0	0.530	90.6	0.14
400	5.636	34.083	5.603	26.878	121.6	0.657	91.0	0.14
500	5.248	34.161	5.208	26.986	112.2	0.774	90.8	0.14
503	5.227	34.163	5.187	26.990	111.8	0.777	90.9	0.15

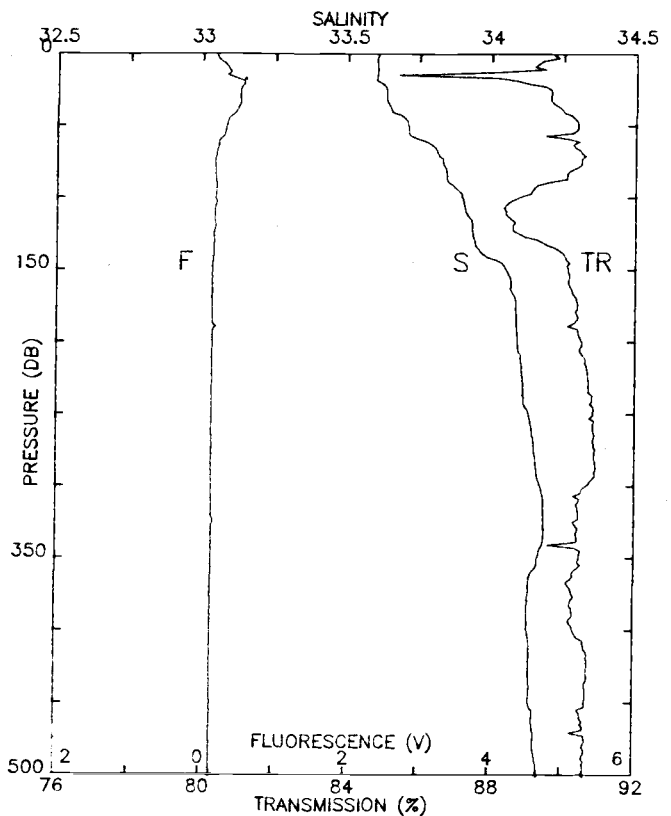


STA NO 18 LAT: 38 24.0 N LONG: 124 0.1 W
 20 MAY 1987 1856 GMT PROBE 2561 DEPTH 2742M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.731	32.874	11.731	24.989	295.9	0.003	84.9	0.50
10	11.654	32.886	11.652	25.012	293.8	0.029	84.7	0.71
20	11.209	33.032	11.207	25.207	275.6	0.058	85.0	1.37
30	10.578	33.186	10.575	25.438	253.8	0.084	86.3	1.24
40	10.055	33.268	10.051	25.592	239.3	0.109	87.8	1.03
50	9.919	33.339	9.913	25.670	232.1	0.132	88.1	0.92
60	9.886	33.372	9.879	25.701	229.3	0.155	88.7	0.69
70	9.701	33.481	9.694	25.817	218.5	0.178	88.5	0.49
80	9.826	33.670	9.817	25.945	206.7	0.199	89.2	0.36
90	9.711	33.764	9.701	26.037	198.0	0.219	90.0	0.23
100	9.522	33.811	9.511	26.105	191.8	0.239	89.9	0.23
110	9.388	33.853	9.376	26.160	186.7	0.258	89.8	0.22
120	9.213	33.898	9.200	26.224	180.9	0.276	89.9	0.19
130	9.148	33.915	9.134	26.247	178.8	0.294	89.9	0.18
140	8.708	33.924	8.693	26.324	171.6	0.312	90.1	0.16
150	8.490	33.948	8.474	26.376	166.8	0.329	90.1	0.15
175	8.108	33.973	8.090	26.455	159.7	0.369	90.3	0.15
200	7.826	34.001	7.806	26.518	154.0	0.409	90.4	0.15
225	7.535	34.033	7.514	26.585	148.0	0.446	90.6	0.15
250	7.649	34.096	7.624	26.619	145.2	0.483	90.6	0.15
300	6.639	34.039	6.612	26.714	136.4	0.553	90.9	0.14
400	6.103	34.091	6.068	26.826	126.9	0.685	91.1	0.14
500	5.407	34.127	5.366	26.941	116.7	0.807	90.9	0.13
501	5.406	34.127	5.365	26.941	116.6	0.808	90.9	0.14



STATION 19

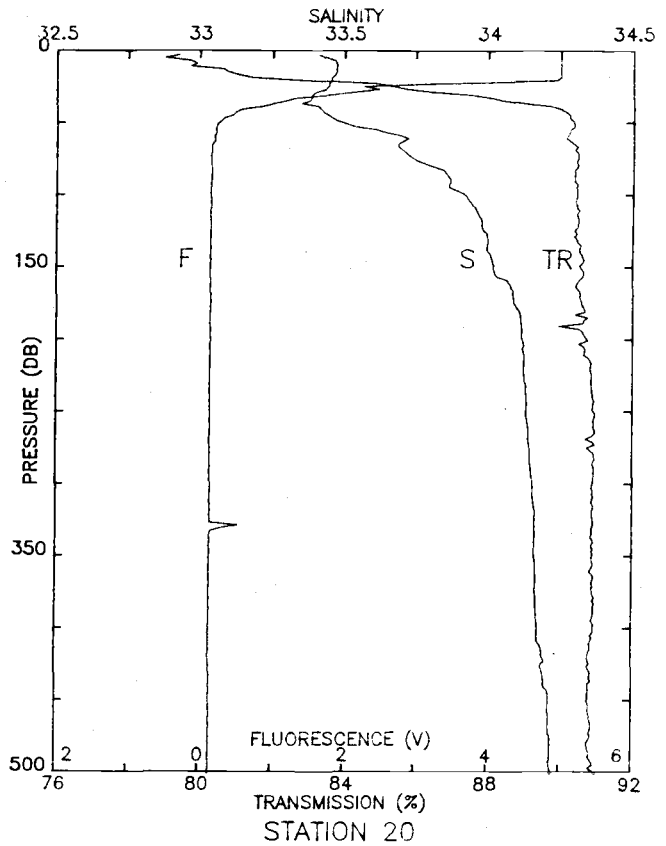
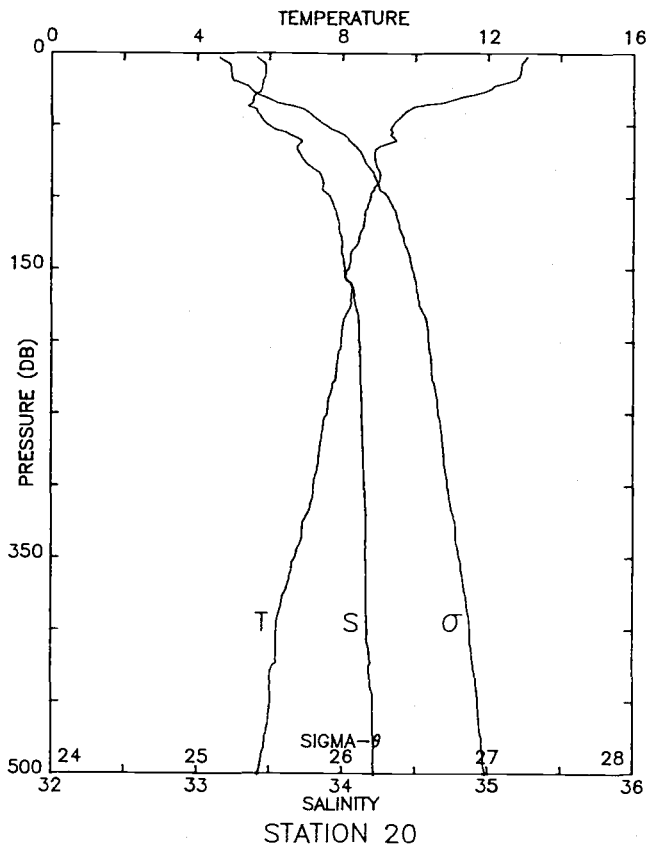


STATION 19

STA NO 19 LAT: 38 4.9 N LONG: 123 48.0 W
20 MAY 1987 2155 GMT PROBE 2561 DEPTH 3059M

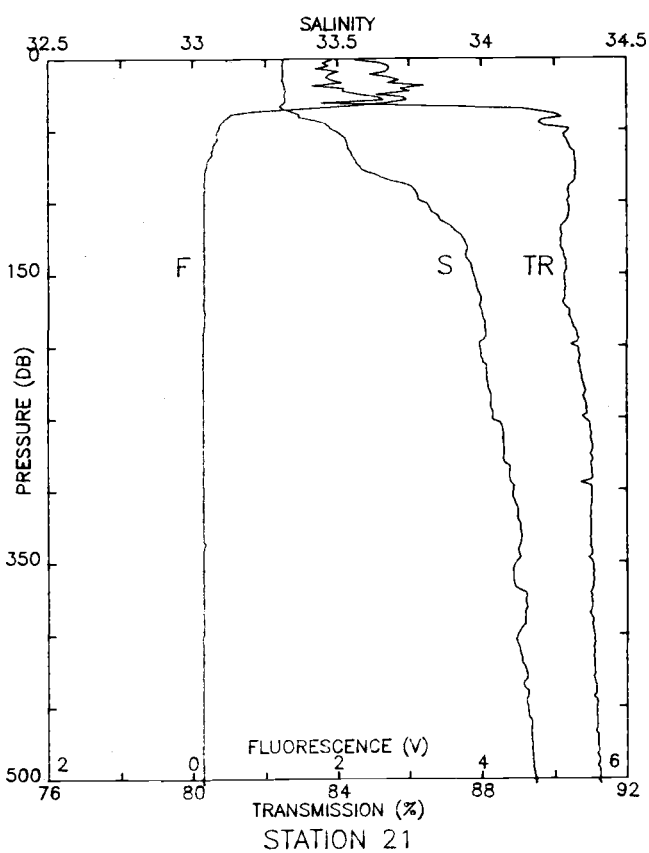
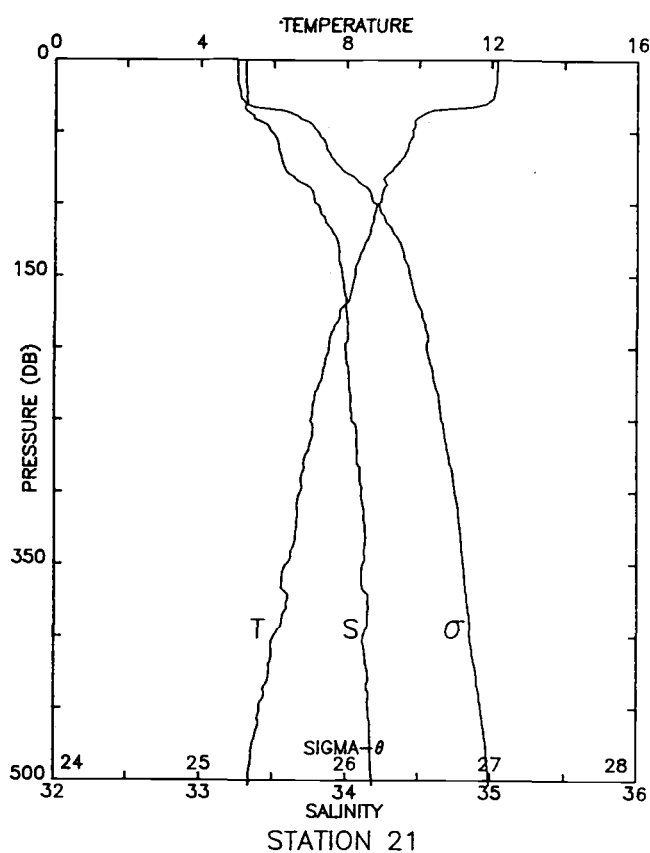
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.830	33.606	11.830	25.539	243.5	0.002	89.7	0.19
10	11.103	33.603	11.102	25.670	231.3	0.024	89.3	0.35
20	10.929	33.609	10.927	25.706	228.1	0.047	88.9	0.57
30	10.734	33.635	10.730	25.761	223.1	0.069	89.6	0.51
40	10.632	33.654	10.627	25.794	220.2	0.091	90.0	0.47
50	10.350	33.713	10.345	25.889	211.3	0.113	90.4	0.34
60	10.003	33.757	9.996	25.983	202.6	0.133	90.3	0.25
70	9.822	33.818	9.815	26.061	195.4	0.153	90.6	0.20
80	9.660	33.844	9.651	26.108	191.1	0.173	90.3	0.18
90	9.466	33.859	9.456	26.151	187.2	0.192	89.4	0.20
100	9.234	33.902	9.223	26.223	180.5	0.210	88.7	0.19
110	9.126	33.915	9.115	26.251	178.1	0.228	88.4	0.18
120	9.044	33.936	9.031	26.281	175.4	0.246	88.6	0.19
130	8.929	33.946	8.915	26.306	173.2	0.263	89.4	0.17
140	8.643	33.982	8.629	26.379	166.4	0.280	90.0	0.16
150	8.616	34.055	8.601	26.441	160.7	0.296	90.1	0.15
175	8.314	34.088	8.296	26.514	154.2	0.336	90.4	0.15
200	8.209	34.094	8.189	26.535	152.6	0.374	90.5	0.16
225	7.882	34.112	7.860	26.598	147.0	0.412	90.7	0.16
250	7.594	34.134	7.570	26.657	141.6	0.448	90.9	0.14
300	7.325	34.175	7.296	26.728	135.6	0.517	90.7	0.15
400	6.243	34.134	6.208	26.842	125.5	0.647	90.4	0.15
500	5.690	34.172	5.648	26.942	116.9	0.768	90.6	0.15
501	5.689	34.172	5.647	26.942	116.8	0.770	90.7	0.15

LIN INT SAL 11-19 DB



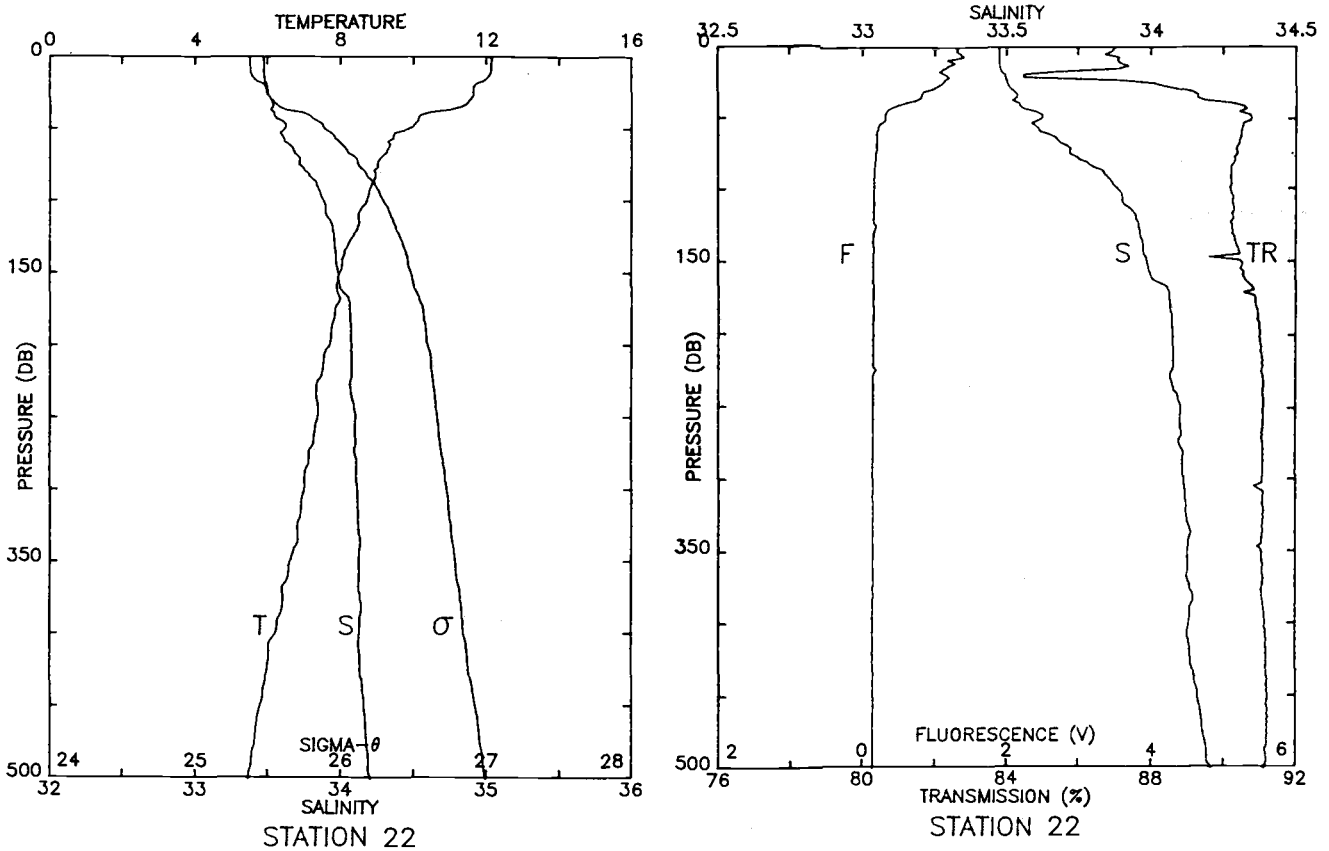
STA NO 20 LAT: 37 45.1 N LONG: 123 36.0 W
21 MAY 1987 0029 GMT PROBE 2561 DEPTH 2916M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	13.055	33.410	13.054	25.151	280.5	0.008	79.4	5.00
10	12.892	33.472	12.890	25.232	273.0	0.028	79.8	5.00
20	12.605	33.454	12.602	25.274	269.2	0.055	82.2	4.97
30	11.437	33.392	11.433	25.446	253.1	0.081	87.0	1.99
40	9.783	33.412	9.778	25.750	224.3	0.105	89.9	0.72
50	9.363	33.489	9.357	25.879	212.2	0.127	90.4	0.26
60	9.429	33.708	9.423	26.039	197.2	0.147	90.2	0.20
70	8.866	33.708	8.859	26.129	188.8	0.166	90.4	0.16
80	8.950	33.801	8.942	26.189	183.4	0.185	90.5	0.16
90	8.966	33.869	8.956	26.240	178.7	0.203	90.4	0.16
100	8.753	33.919	8.742	26.312	172.0	0.221	90.5	0.15
110	8.619	33.958	8.607	26.364	167.2	0.238	90.5	0.15
120	8.569	33.979	8.557	26.388	165.1	0.254	90.5	0.15
130	8.445	33.998	8.432	26.422	162.0	0.271	90.4	0.15
140	8.224	34.003	8.210	26.460	158.6	0.287	90.6	0.15
150	8.150	34.018	8.135	26.483	156.6	0.303	90.6	0.15
175	8.219	34.089	8.202	26.529	152.7	0.341	90.6	0.15
200	7.955	34.118	7.935	26.591	147.2	0.378	90.8	0.15
225	7.816	34.126	7.794	26.618	145.0	0.415	90.9	0.15
250	7.582	34.135	7.558	26.659	141.5	0.450	90.9	0.15
300	7.220	34.155	7.192	26.727	135.7	0.520	90.9	0.15
400	6.200	34.176	6.165	26.880	121.9	0.648	91.0	0.14
500	5.678	34.223	5.636	26.984	112.9	0.766	91.0	0.15
501	5.675	34.223	5.633	26.984	112.9	0.767	91.0	0.15



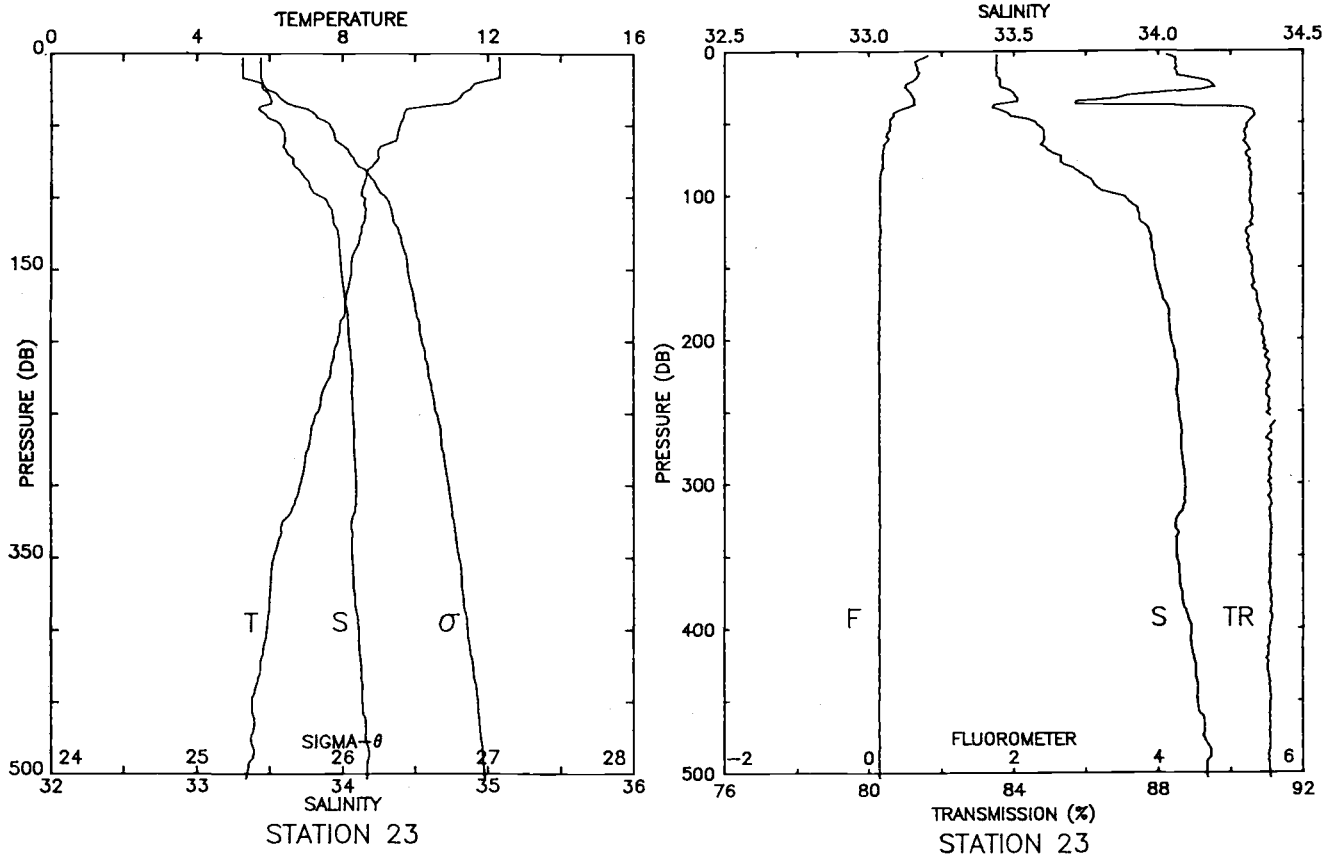
STA NO 21 LAT: 37 38.0 N LONG: 123 54.0 W
 21 MAY 1987 0242 GMT PROBE 2561 DEPTH 3481M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.141	33.311	12.141	25.251	270.9	0.003	83.8	2.24
10	12.135	33.310	12.134	25.252	271.1	0.027	83.9	2.56
20	12.088	33.316	12.086	25.265	270.0	0.054	83.7	3.03
30	11.879	33.317	11.875	25.306	266.4	0.081	84.4	2.83
40	9.992	33.366	9.987	25.679	231.1	0.106	90.1	0.51
50	9.813	33.487	9.808	25.803	219.4	0.128	90.4	0.35
60	9.691	33.535	9.684	25.861	214.2	0.150	90.4	0.29
70	9.480	33.560	9.472	25.915	209.2	0.171	90.6	0.22
80	9.112	33.619	9.104	26.021	199.3	0.192	90.6	0.17
90	9.008	33.761	8.999	26.148	187.4	0.211	90.4	0.17
100	8.870	33.798	8.859	26.199	182.7	0.229	90.4	0.16
110	8.731	33.850	8.720	26.262	177.0	0.247	90.4	0.15
120	8.639	33.908	8.626	26.322	171.4	0.265	90.2	0.16
130	8.465	33.947	8.452	26.379	166.1	0.282	90.2	0.16
140	8.298	33.951	8.284	26.408	163.6	0.298	90.3	0.16
150	8.209	33.971	8.193	26.437	160.9	0.314	90.3	0.15
175	7.792	33.998	7.775	26.520	153.4	0.354	90.4	0.15
200	7.517	33.993	7.498	26.556	150.3	0.392	90.5	0.15
225	7.255	34.021	7.233	26.615	145.0	0.428	90.8	0.15
250	7.029	34.037	7.006	26.659	141.1	0.464	90.8	0.15
300	6.746	34.106	6.719	26.753	132.8	0.532	91.0	0.15
400	6.033	34.122	5.998	26.859	123.7	0.660	91.1	0.14
500	5.361	34.185	5.320	26.992	111.8	0.777	91.2	0.14
503	5.357	34.186	5.316	26.993	111.7	0.781	91.3	0.15



STA NO 22 LAT: 37 45.1 N LONG: 123 58.8 W
 21 MAY 1987 0410 GMT PROBE 2561 DEPTH 3492M

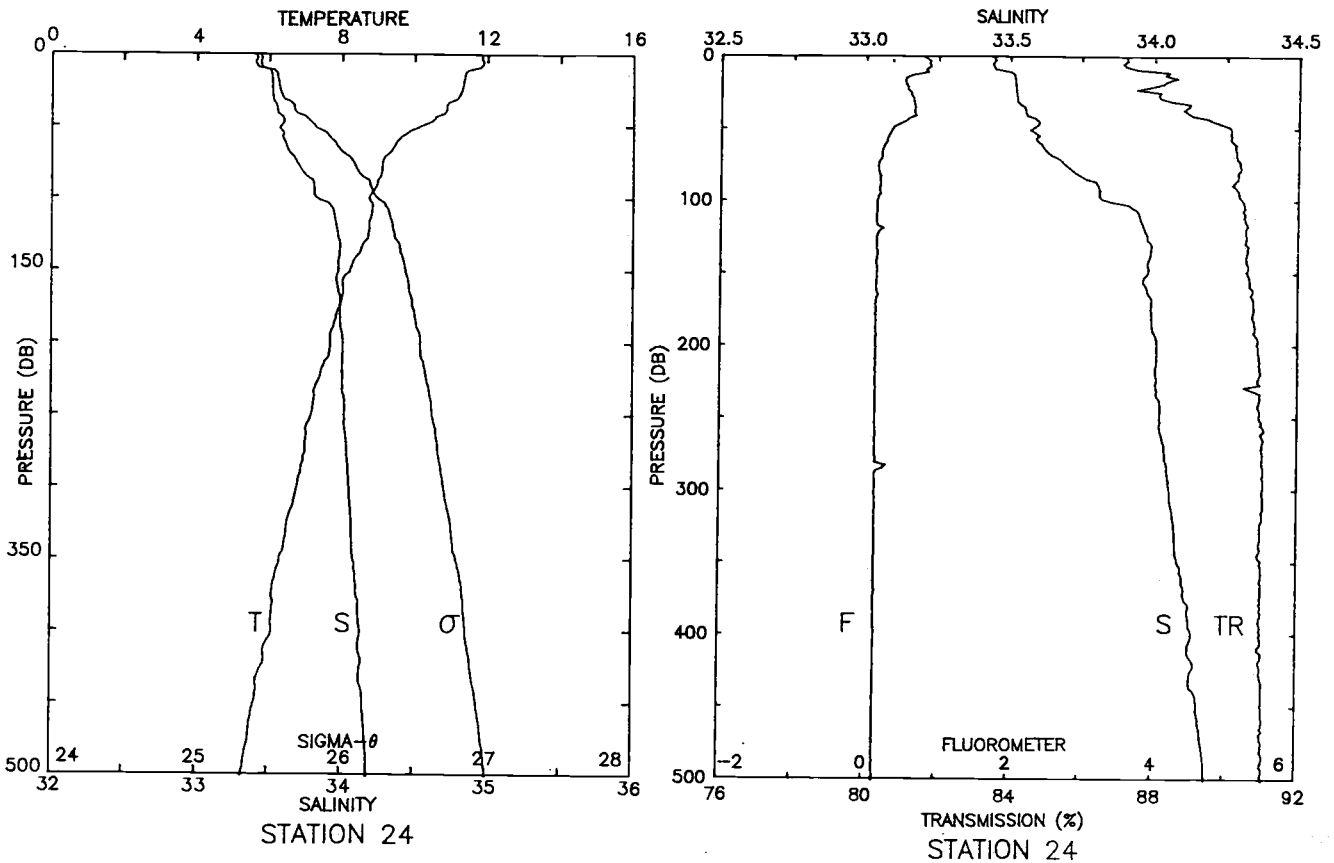
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.141	33.473	12.141	25.377	258.9	0.003	87.0	1.32
10	12.118	33.473	12.117	25.382	258.7	0.026	87.1	1.22
20	11.678	33.496	11.675	25.483	249.4	0.051	84.5	1.17
30	11.537	33.522	11.533	25.529	245.2	0.076	88.9	0.90
40	10.297	33.546	10.292	25.767	222.7	0.100	90.4	0.51
50	9.892	33.619	9.887	25.893	210.9	0.122	90.8	0.31
60	9.319	33.635	9.312	26.000	200.9	0.142	90.5	0.19
70	9.102	33.719	9.094	26.100	191.5	0.162	90.4	0.20
80	8.929	33.770	8.920	26.168	185.3	0.181	90.3	0.18
90	8.830	33.843	8.821	26.241	178.6	0.199	90.2	0.16
100	8.712	33.886	8.702	26.293	173.8	0.216	90.2	0.16
110	8.485	33.905	8.474	26.343	169.2	0.234	90.3	0.16
120	8.450	33.948	8.437	26.382	165.6	0.250	90.3	0.15
130	8.218	33.961	8.205	26.428	161.4	0.267	90.3	0.16
140	8.059	33.972	8.045	26.460	158.6	0.283	90.4	0.16
150	7.980	33.986	7.965	26.483	156.6	0.298	90.5	0.15
175	7.843	34.062	7.826	26.563	149.3	0.337	90.9	0.15
200	7.690	34.075	7.670	26.596	146.6	0.374	91.0	0.15
225	7.366	34.066	7.345	26.635	143.1	0.410	91.0	0.16
250	7.377	34.103	7.353	26.664	140.9	0.445	91.1	0.14
300	6.999	34.114	6.971	26.725	135.7	0.514	91.1	0.15
400	6.209	34.130	6.174	26.844	125.3	0.645	91.2	0.15
500	5.461	34.205	5.420	26.996	111.5	0.763	91.1	0.15
501	5.461	34.207	5.420	26.997	111.4	0.764	91.1	0.15



STA NO 23 LAT: 37 52.4 N LONG: 124 3.2 W
 21 MAY 1987 0537 GMT PROBE 2561 DEPTH 3736M

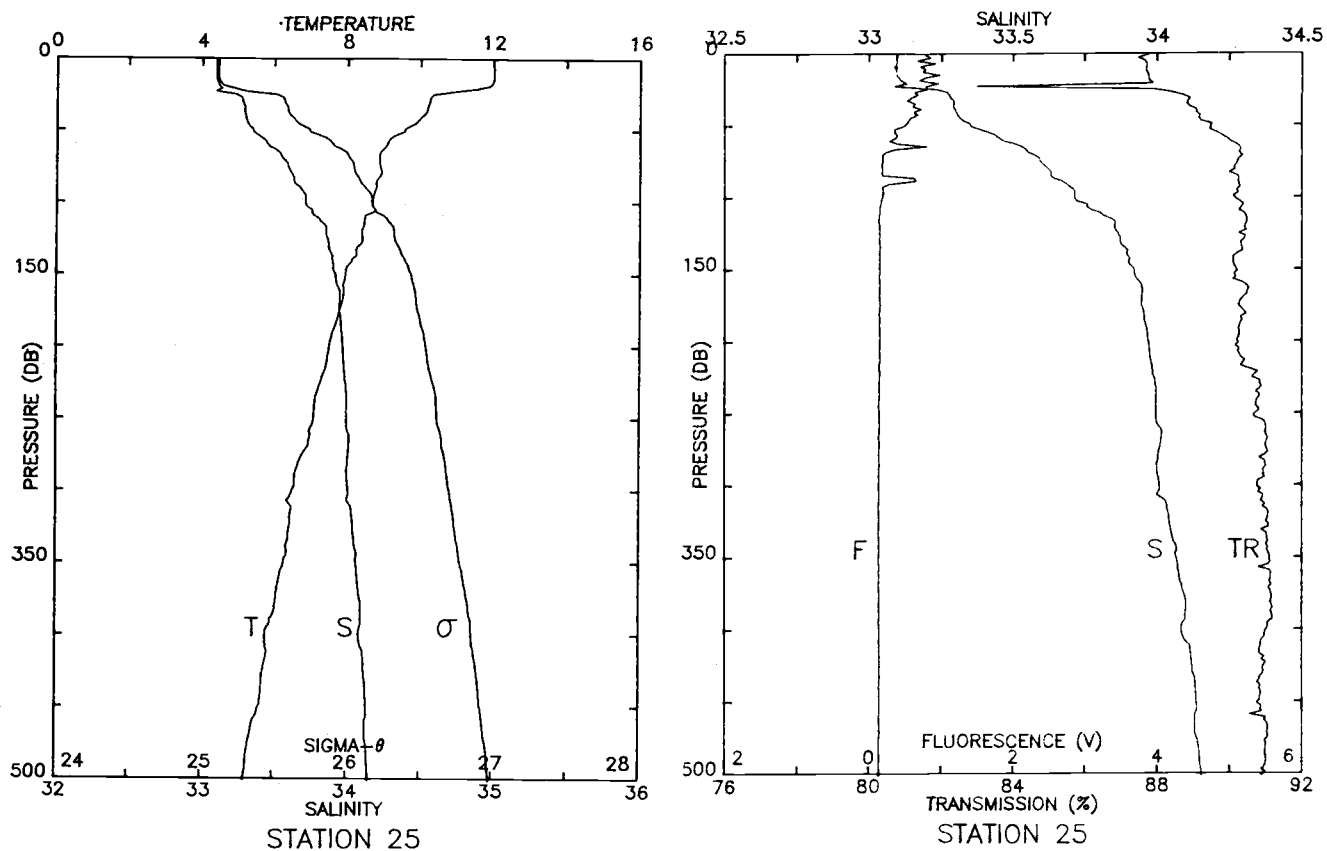
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	12.315	33.440	12.315	25.319	264.5	0.008	88.2	0.81
10	12.322	33.440	12.321	25.317	264.8	0.026	88.5	0.66
20	11.796	33.451	11.794	25.425	254.8	0.053	89.1	0.63
30	11.252	33.502	11.248	25.565	241.7	0.078	87.6	0.59
40	9.736	33.440	9.732	25.779	221.5	0.101	90.5	0.48
50	9.583	33.577	9.578	25.912	209.1	0.123	90.5	0.29
60	9.486	33.606	9.480	25.950	205.7	0.143	90.4	0.26
70	8.964	33.627	8.957	26.050	196.3	0.163	90.4	0.19
80	8.744	33.689	8.736	26.133	188.5	0.183	90.5	0.19
90	8.591	33.771	8.582	26.222	180.3	0.201	90.6	0.15
100	8.575	33.862	8.564	26.295	173.5	0.219	80.7	0.15
110	8.629	33.929	8.618	26.340	169.5	0.236	90.6	0.16
120	8.524	33.949	8.512	26.372	166.7	0.253	84.6	0.15
130	8.446	33.976	8.432	26.405	163.7	0.269	77.6	0.15
140	8.268	33.983	8.254	26.437	160.8	0.285	90.5	0.14
150	8.226	33.989	8.210	26.449	159.8	0.301	90.6	0.15
175	8.059	34.026	8.042	26.503	155.1	0.341	90.8	0.14
200	7.861	34.046	7.842	26.549	151.2	0.379	90.9	0.14
225	7.644	34.070	7.622	26.599	146.7	0.416	91.1	0.15
250	7.298	34.073	7.275	26.650	142.1	0.452	89.3	0.15
300	6.830	34.095	6.803	26.733	134.8	0.521	91.0	0.15
400	5.930	34.114	5.896	26.866	123.0	0.650	91.1	0.15
500	5.378	34.169	5.337	26.977	113.2	0.768	91.1	0.15
503	5.355	34.170	5.314	26.980	112.9	0.771	91.1	0.15

20 MIN GAP 122.5 DB



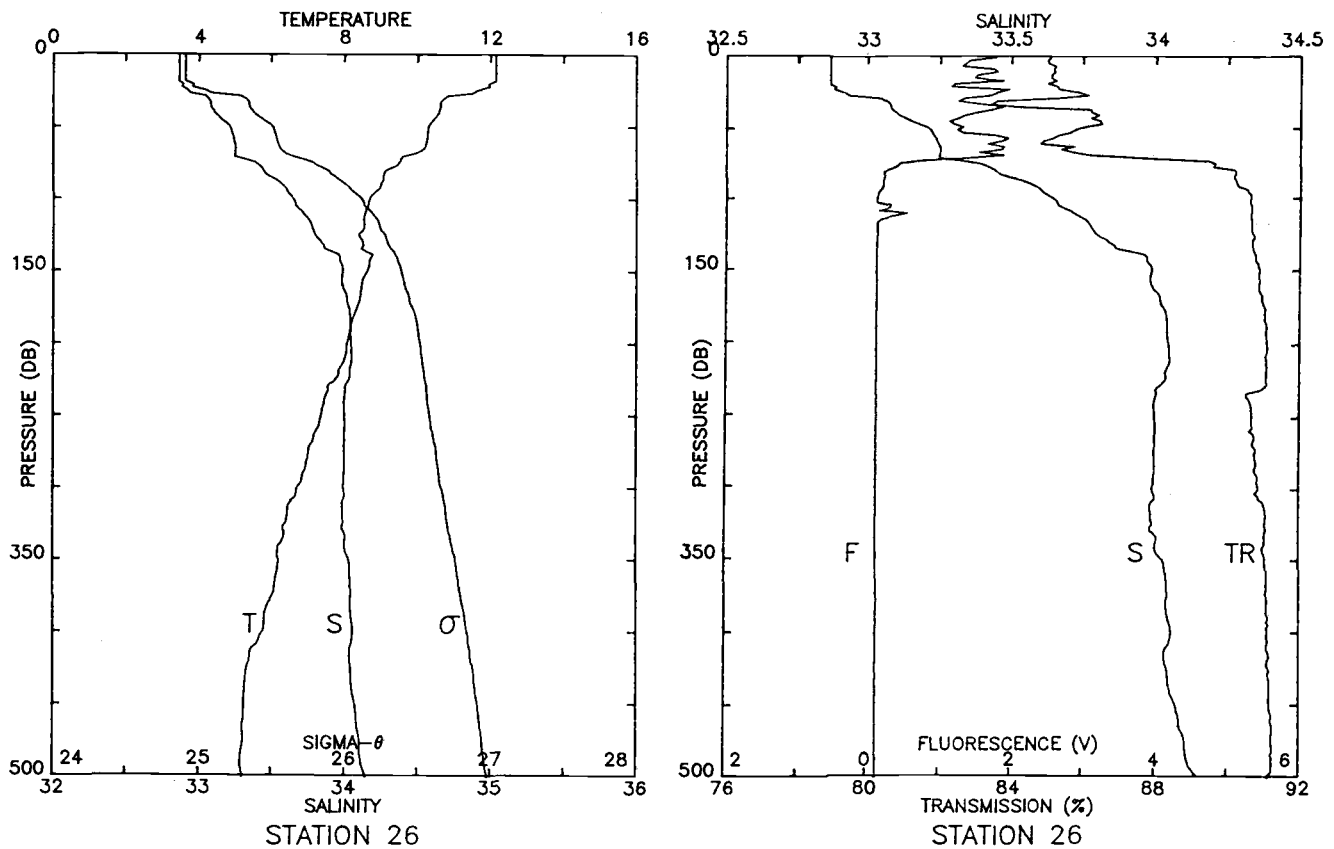
STA NO 24 LAT: 37 59.5 N LONG: 124 7.8 W
 21 MAY 1987 0715 GMT PROBE 2561 DEPTH 3736M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.849	33.443	11.849	25.408	255.9	0.003	87.2	0.81
10	11.614	33.475	11.613	25.477	249.6	0.026	87.9	0.84
20	11.318	33.519	11.315	25.566	241.4	0.050	88.0	0.56
30	11.176	33.525	11.173	25.596	238.7	0.074	88.3	0.66
40	10.827	33.558	10.822	25.685	230.5	0.097	89.0	0.68
50	10.149	33.580	10.143	25.819	217.9	0.120	90.1	0.37
60	9.517	33.606	9.510	25.945	206.2	0.141	90.2	0.28
70	9.216	33.662	9.208	26.037	197.5	0.161	90.3	0.22
80	9.089	33.726	9.081	26.108	191.0	0.180	90.4	0.18
90	8.954	33.810	8.945	26.195	182.9	0.199	90.2	0.20
100	8.749	33.840	8.738	26.251	177.8	0.217	90.5	0.16
110	8.822	33.950	8.811	26.326	170.9	0.234	90.5	0.15
120	8.749	33.968	8.736	26.352	168.6	0.251	90.6	0.22
130	8.617	33.991	8.603	26.390	165.2	0.268	90.6	0.16
140	8.400	33.984	8.385	26.419	162.6	0.284	90.6	0.16
150	8.222	33.979	8.207	26.442	160.5	0.301	90.6	0.16
175	7.952	33.992	7.935	26.492	156.1	0.340	90.8	0.16
200	7.697	34.012	7.678	26.545	151.4	0.378	90.7	0.15
225	7.399	34.011	7.377	26.587	147.7	0.416	90.9	0.15
250	7.185	34.023	7.162	26.627	144.2	0.452	91.0	0.14
300	6.794	34.059	6.767	26.709	137.0	0.523	91.1	0.15
400	6.105	34.139	6.070	26.863	123.4	0.652	91.0	0.15
500	5.280	34.188	5.239	27.004	110.5	0.768	91.1	0.15
501	5.279	34.188	5.238	27.004	110.6	0.770	91.1	0.15



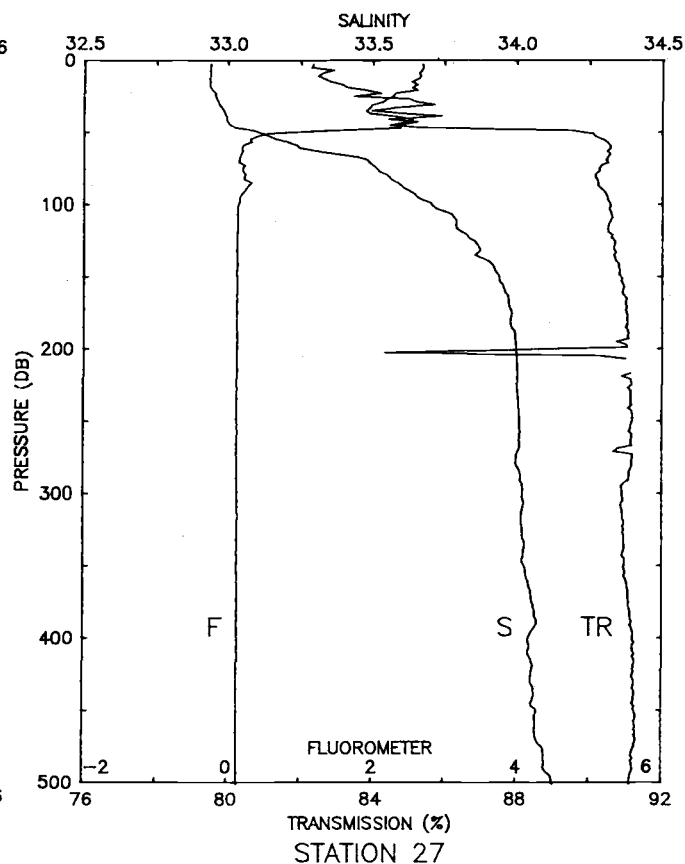
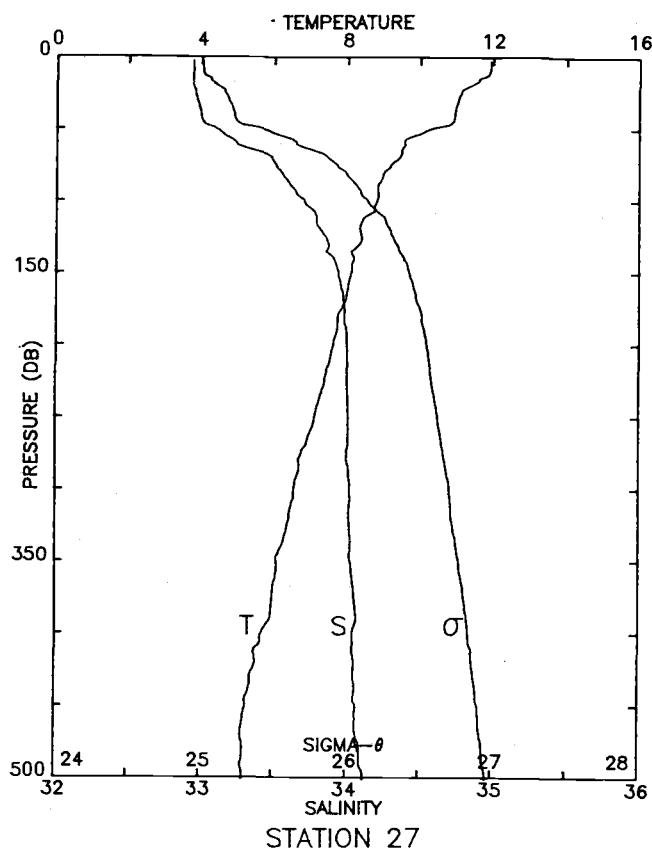
STA NO 25 LAT: 38 6.7 N LONG: 124 12.5 W
 21 MAY 1987 0838 GMT PROBE 2561 DEPTH 3736M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.005	33.096	12.005	25.110	284.3	0.003	87.8	0.78
10	12.009	33.095	12.007	25.109	284.6	0.028	87.7	0.75
20	11.721	33.123	11.718	25.184	277.8	0.057	87.8	0.83
30	10.240	33.281	10.237	25.570	241.2	0.082	88.8	0.63
40	10.052	33.300	10.048	25.617	236.9	0.106	89.1	0.67
50	9.553	33.352	9.547	25.740	225.4	0.129	89.5	0.50
60	9.063	33.459	9.056	25.903	210.1	0.151	90.0	0.33
70	8.860	33.565	8.852	26.018	199.3	0.171	90.3	0.21
80	8.909	33.621	8.901	26.055	196.1	0.191	90.1	0.19
90	8.766	33.680	8.756	26.123	189.7	0.210	90.3	0.46
100	8.681	33.716	8.671	26.164	186.0	0.229	90.1	0.19
110	8.469	33.790	8.457	26.256	177.5	0.247	90.3	0.15
120	8.386	33.854	8.374	26.318	171.7	0.265	90.4	0.14
130	8.306	33.874	8.293	26.346	169.2	0.282	90.4	0.15
140	8.109	33.897	8.095	26.394	164.8	0.299	90.2	0.15
150	7.937	33.920	7.922	26.437	160.8	0.315	90.2	0.15
175	7.770	33.945	7.753	26.482	157.0	0.355	90.2	0.15
200	7.501	33.970	7.482	26.540	151.8	0.393	90.2	0.15
225	7.266	33.990	7.245	26.589	147.4	0.431	90.6	0.14
250	7.091	33.996	7.067	26.619	144.9	0.467	90.7	0.14
300	6.507	34.009	6.480	26.708	136.9	0.537	90.8	0.14
400	5.782	34.084	5.748	26.860	123.4	0.667	91.0	0.14
500	5.204	34.154	5.163	26.986	112.2	0.785	90.9	0.14
501	5.201	34.154	5.160	26.987	112.1	0.786	90.9	0.14



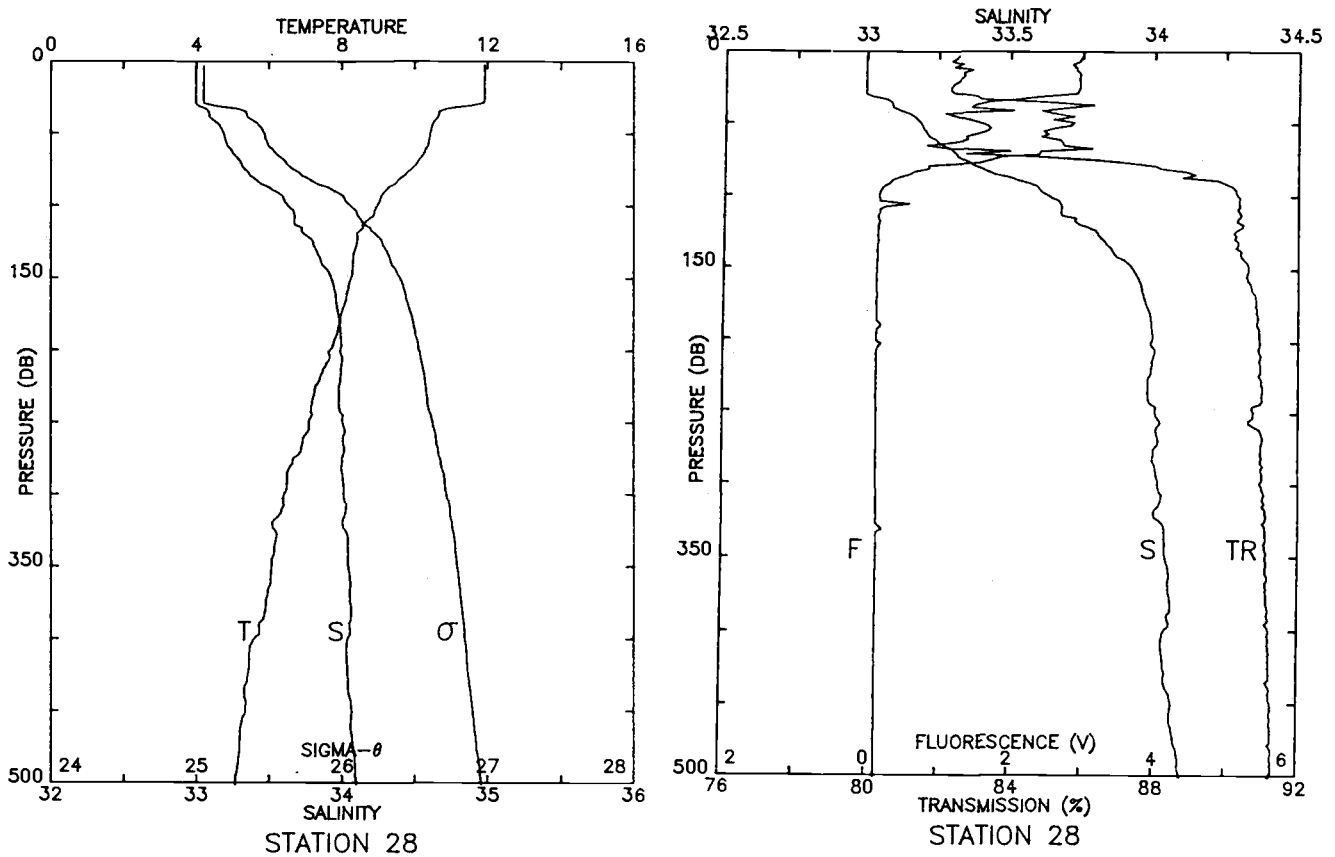
STA NO 26 LAT: 38 13.8 N LONG: 124 17.2 W
 21 MAY 1987 1002 GMT PROBE 2561 DEPTH 3717M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.130	32.862	12.130	24.905	303.8	0.003	85.1	1.78
10	12.134	32.862	12.133	24.905	304.1	0.030	85.2	1.78
20	12.025	32.874	12.022	24.935	301.5	0.061	85.1	1.18
30	10.758	33.055	10.755	25.305	266.4	0.090	84.5	1.29
40	10.576	33.104	10.571	25.375	260.0	0.116	86.3	1.42
50	10.293	33.212	10.287	25.507	247.6	0.141	85.9	1.28
60	10.241	33.243	10.234	25.541	244.6	0.166	84.8	1.77
70	9.744	33.249	9.736	25.629	236.4	0.190	87.0	1.64
80	9.186	33.444	9.177	25.872	213.4	0.213	90.2	0.28
90	8.988	33.571	8.979	26.003	201.1	0.233	90.3	0.21
100	8.671	33.646	8.661	26.111	191.0	0.253	90.6	0.13
110	8.547	33.714	8.536	26.184	184.3	0.272	90.6	0.36
120	8.512	33.777	8.500	26.239	179.3	0.290	90.7	0.14
130	8.480	33.835	8.467	26.289	174.7	0.307	90.7	0.13
140	8.739	33.965	8.724	26.351	169.0	0.325	90.8	0.13
150	8.618	33.987	8.603	26.387	165.8	0.341	90.9	0.13
175	8.331	34.027	8.313	26.463	159.0	0.382	91.0	0.14
200	8.058	34.045	8.038	26.519	154.1	0.421	91.1	0.14
225	7.745	34.029	7.723	26.552	151.2	0.459	91.1	0.13
250	7.353	33.997	7.329	26.583	148.5	0.497	90.7	0.14
300	6.714	33.991	6.686	26.667	141.0	0.569	90.9	0.13
400	5.756	34.058	5.723	26.843	125.0	0.702	91.1	0.14
500	5.201	34.146	5.161	26.980	112.7	0.820	91.2	0.14
501	5.205	34.148	5.165	26.981	112.6	0.822	91.1	0.14



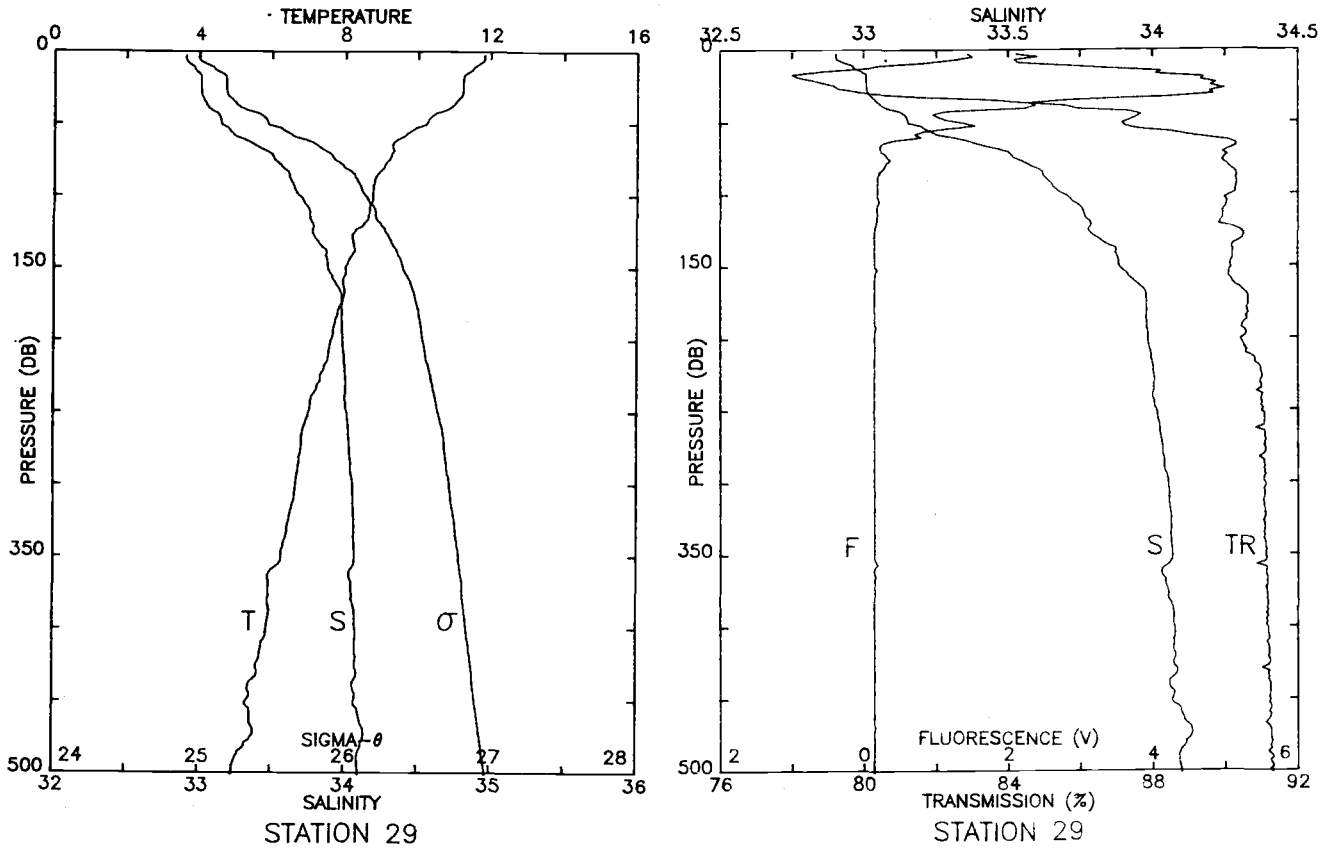
STA NO 27 LAT: 38 21.1 N LONG: 124 21.8 W
 21 MAY 1987 1132 GMT PROBE 2561 DEPTH 3853M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.932	32.939	11.932	25.002	294.7	0.009	85.4	1.17
10	11.903	32.938	11.901	25.007	294.4	0.029	85.3	1.27
20	11.366	32.941	11.364	25.108	285.0	0.059	85.1	1.78
30	11.044	32.969	11.041	25.188	277.6	0.087	84.1	2.74
40	10.943	32.996	10.938	25.227	274.1	0.114	84.9	2.59
50	10.276	33.104	10.271	25.426	255.3	0.141	89.8	0.96
60	9.565	33.243	9.559	25.653	233.9	0.165	90.5	0.21
70	9.419	33.486	9.411	25.867	213.7	0.188	90.5	0.16
80	9.011	33.552	9.003	25.985	202.7	0.208	90.2	0.24
90	8.830	33.622	8.820	26.068	195.0	0.228	90.4	0.25
100	8.802	33.707	8.792	26.139	188.4	0.248	90.6	0.15
110	8.552	33.788	8.541	26.241	178.9	0.266	90.6	0.14
120	8.345	33.819	8.332	26.297	173.7	0.284	90.6	0.14
130	8.329	33.873	8.316	26.342	169.6	0.301	90.7	0.13
140	8.179	33.909	8.165	26.393	164.9	0.318	90.8	0.14
150	8.107	33.941	8.092	26.429	161.7	0.334	90.8	0.13
175	7.843	33.985	7.826	26.503	155.1	0.373	91.0	0.13
200	7.613	33.999	7.593	26.548	151.1	0.412	89.6	0.13
225	7.391	34.005	7.370	26.584	148.0	0.449	91.0	0.13
250	7.121	34.013	7.098	26.628	144.1	0.486	91.2	0.13
300	6.569	34.023	6.542	26.711	136.7	0.556	90.9	0.14
400	5.679	34.042	5.646	26.840	125.2	0.687	91.2	0.14
500	5.189	34.126	5.149	26.965	114.1	0.806	91.1	0.14
501	5.189	34.127	5.149	26.966	114.0	0.807	91.1	0.14



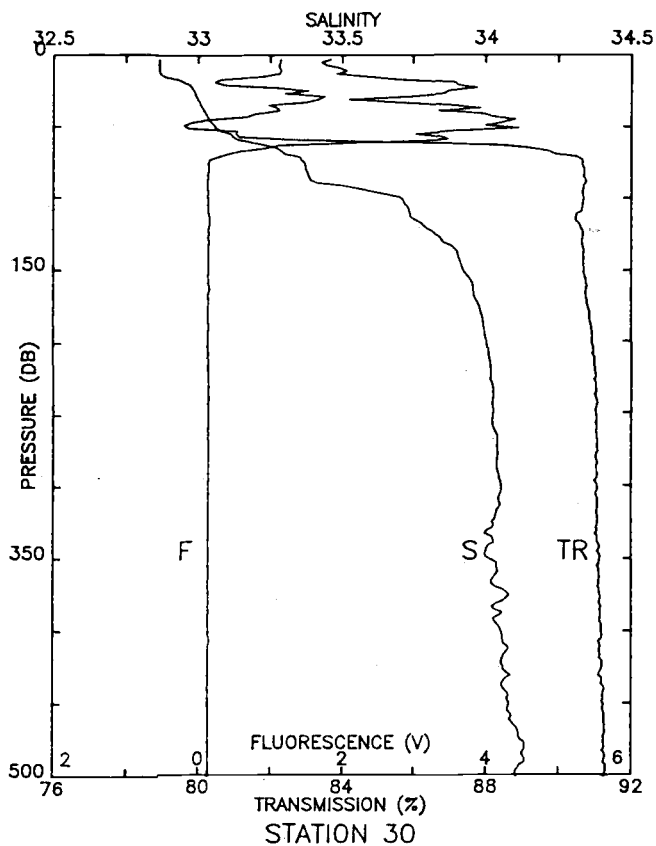
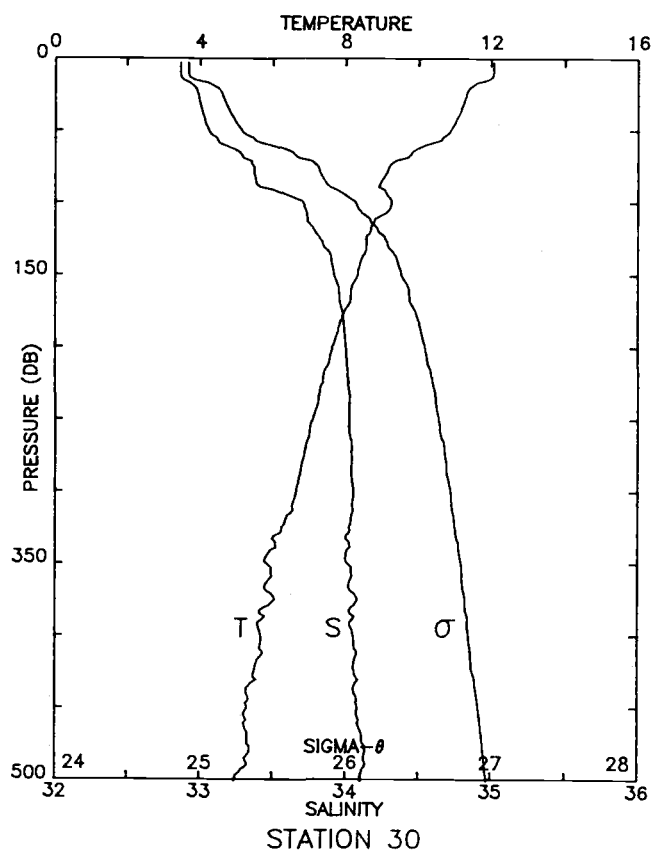
STA NO 28 LAT: 38 28.3 N LONG: 124 26.5 W
 21 MAY 1987 1302 GMT PROBE 2561 DEPTH 3596M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.918	32.996	11.918	25.049	290.2	0.009	86.0	1.28
10	11.918	32.996	11.917	25.049	290.4	0.029	85.8	1.27
20	11.920	32.996	11.917	25.049	290.6	0.058	85.9	1.29
30	11.724	33.003	11.721	25.091	286.8	0.087	85.4	1.37
40	10.599	33.106	10.594	25.373	260.2	0.114	83.5	2.62
50	10.417	33.190	10.411	25.469	251.2	0.139	83.2	2.86
60	10.328	33.228	10.321	25.515	247.1	0.164	82.8	2.55
70	10.074	33.306	10.066	25.619	237.4	0.189	83.4	2.40
80	9.672	33.387	9.663	25.749	225.2	0.212	88.1	0.86
90	9.166	33.546	9.157	25.955	205.7	0.233	89.9	0.33
100	8.953	33.637	8.942	26.060	195.9	0.253	90.4	0.18
110	8.683	33.676	8.671	26.133	189.1	0.273	90.4	0.18
120	8.403	33.752	8.391	26.236	179.5	0.291	90.5	0.16
130	8.348	33.824	8.335	26.300	173.6	0.309	90.3	0.16
140	8.288	33.865	8.274	26.342	169.8	0.326	90.4	0.15
150	8.233	33.929	8.218	26.401	164.4	0.342	90.6	0.14
175	7.970	33.977	7.953	26.478	157.5	0.383	90.8	0.14
200	7.666	33.990	7.647	26.533	152.6	0.421	91.0	0.18
225	7.273	33.979	7.252	26.580	148.4	0.459	91.0	0.14
250	7.101	34.005	7.078	26.625	144.4	0.496	90.8	0.14
300	6.427	34.013	6.400	26.721	135.6	0.566	91.0	0.14
400	5.591	34.038	5.558	26.847	124.4	0.695	91.2	0.14
500	5.067	34.098	5.028	26.957	114.7	0.815	91.3	0.14
501	5.068	34.098	5.028	26.957	114.7	0.816	91.2	0.14



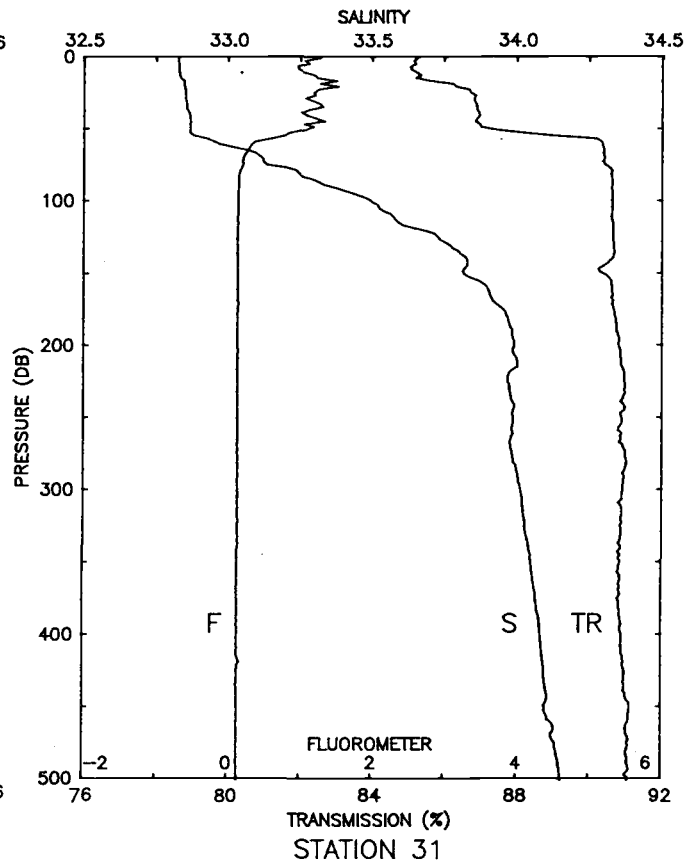
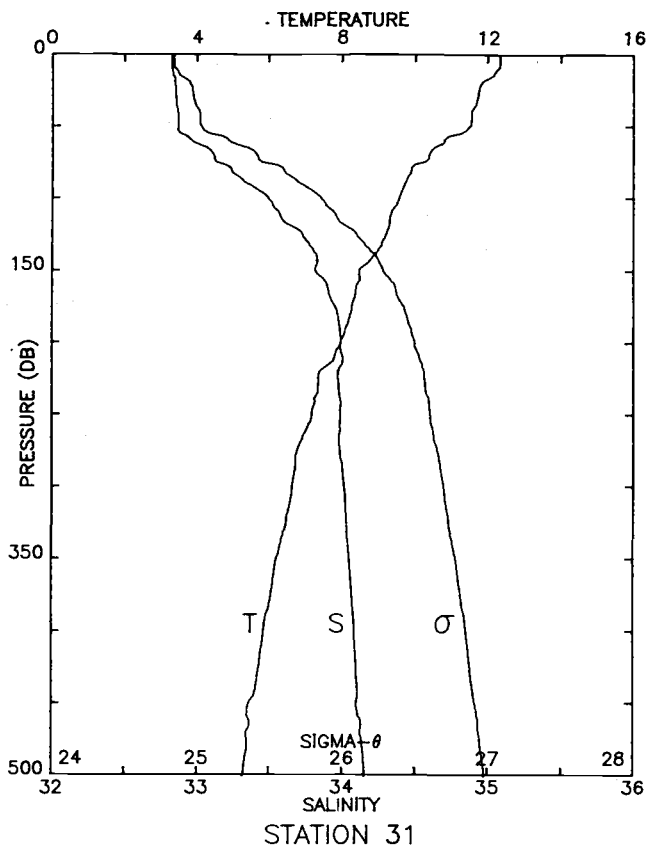
STA NO 29 LAT: 38 35.4 N LONG: 124 31.0 W
 21 MAY 1987 1426 GMT PROBE 2561 DEPTH 3616M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.824	32.903	11.823	24.994	295.4	0.009	82.9	2.10
10	11.598	32.947	11.596	25.070	288.3	0.029	81.1	2.47
20	11.230	33.009	11.228	25.185	277.6	0.058	78.3	4.69
30	11.202	33.014	11.198	25.194	277.0	0.085	80.0	4.81
40	10.814	33.073	10.809	25.309	266.2	0.113	85.8	2.30
50	10.220	33.152	10.214	25.473	250.8	0.138	87.2	1.25
60	9.513	33.279	9.506	25.690	230.3	0.162	89.2	0.74
70	9.288	33.482	9.281	25.885	212.0	0.184	90.0	0.23
80	9.055	33.572	9.047	25.993	201.9	0.205	90.1	0.30
90	8.786	33.636	8.776	26.085	193.3	0.225	90.3	0.18
100	8.734	33.691	8.724	26.137	188.6	0.244	90.2	0.18
110	8.641	33.756	8.630	26.202	182.6	0.262	90.0	0.17
120	8.499	33.786	8.487	26.248	178.4	0.280	89.8	0.17
130	8.207	33.808	8.194	26.309	172.7	0.298	90.5	0.14
140	8.217	33.874	8.203	26.360	168.1	0.315	90.2	0.14
150	8.014	33.886	7.999	26.400	164.4	0.332	90.1	0.15
175	7.879	33.979	7.862	26.493	156.0	0.371	90.6	0.15
200	7.618	33.984	7.598	26.535	152.4	0.410	90.5	0.14
225	7.320	34.004	7.298	26.593	147.1	0.447	91.0	0.14
250	7.015	34.012	6.992	26.642	142.7	0.484	91.0	0.14
300	6.664	34.054	6.637	26.723	135.6	0.553	91.1	0.14
400	5.878	34.076	5.844	26.842	125.1	0.683	91.2	0.14
500	4.939	34.100	4.900	26.973	113.0	0.803	91.3	0.14
501	4.932	34.101	4.892	26.975	112.9	0.804	91.3	0.14



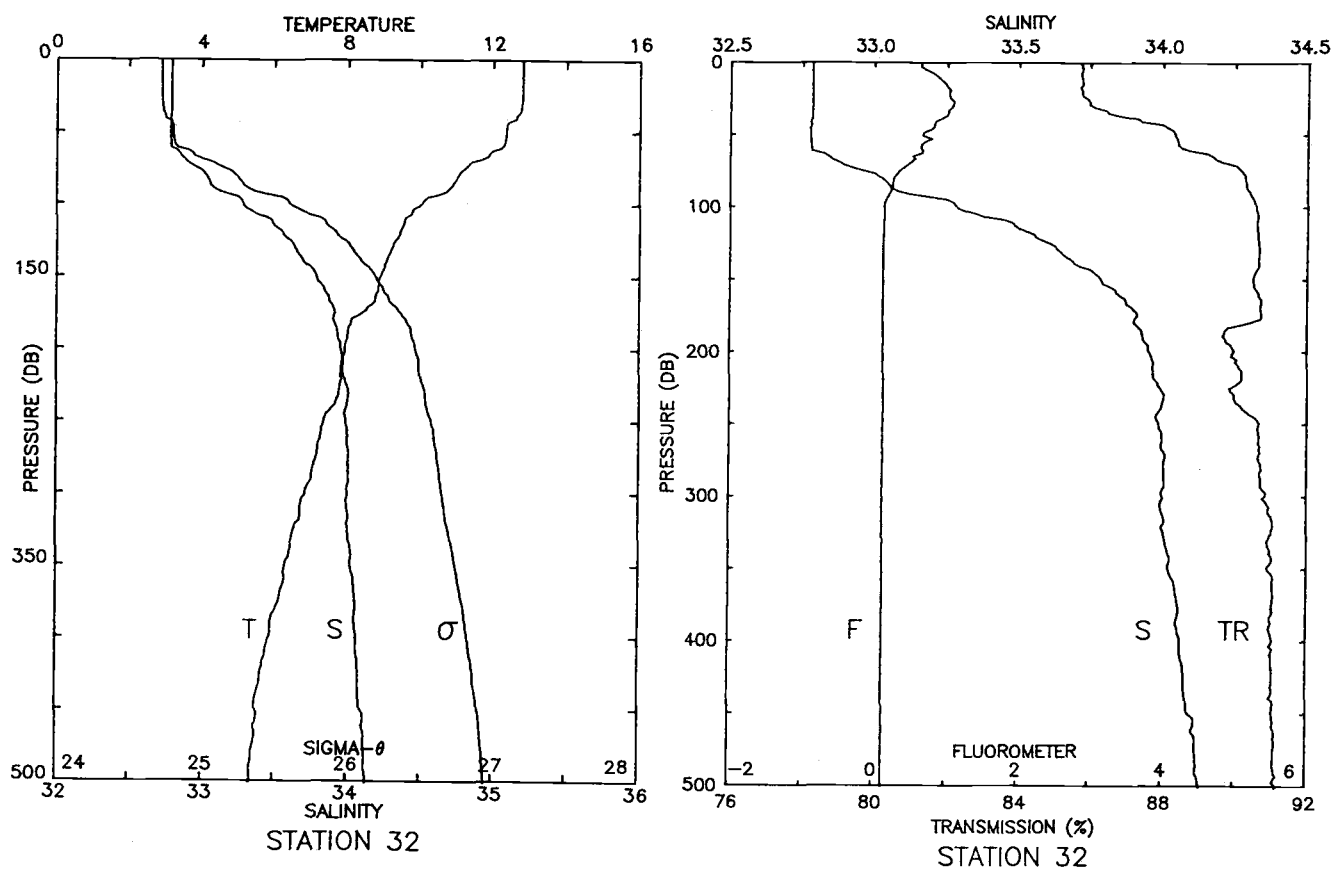
STA NO 30 LAT: 38 42.6 N LONG: 124 35.7 W
 21 MAY 1987 1554 GMT PROBE 2561 DEPTH 3629M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	12.066	32.864	12.065	24.919	302.6	0.009	82.3	1.83
10	12.063	32.864	12.062	24.919	302.7	0.030	82.3	2.02
20	11.442	32.962	11.440	25.110	284.8	0.060	80.6	3.60
30	11.252	32.997	11.248	25.172	279.1	0.088	83.4	2.53
40	11.094	33.025	11.090	25.222	274.6	0.116	81.9	3.66
50	10.885	33.061	10.879	25.288	268.5	0.143	79.7	4.22
60	10.246	33.164	10.239	25.479	250.5	0.169	84.3	2.92
70	9.525	33.327	9.517	25.726	227.1	0.193	90.2	0.34
80	9.098	33.374	9.089	25.832	217.2	0.215	90.7	0.15
90	8.976	33.460	8.966	25.918	209.2	0.236	90.7	0.13
100	9.256	33.710	9.245	26.070	195.1	0.256	90.7	0.14
110	8.870	33.737	8.859	26.152	187.4	0.276	90.6	0.15
120	8.666	33.791	8.653	26.226	180.5	0.294	90.6	0.15
130	8.555	33.850	8.542	26.290	174.6	0.312	90.6	0.15
140	8.405	33.904	8.390	26.355	168.6	0.329	90.7	0.14
150	8.315	33.922	8.300	26.383	166.1	0.345	90.7	0.14
175	7.967	33.977	7.949	26.478	157.4	0.386	90.8	0.14
200	7.637	34.002	7.618	26.546	151.3	0.424	90.9	0.14
225	7.366	34.017	7.344	26.597	146.8	0.462	91.0	0.14
250	7.100	34.026	7.077	26.641	142.8	0.498	91.0	0.14
300	6.648	34.054	6.621	26.725	135.4	0.567	91.1	0.14
400	5.675	34.053	5.642	26.849	124.3	0.697	91.2	0.14
500	4.959	34.103	4.920	26.973	113.0	0.816	91.3	0.14
501	4.954	34.104	4.914	26.975	112.9	0.817	91.2	0.14



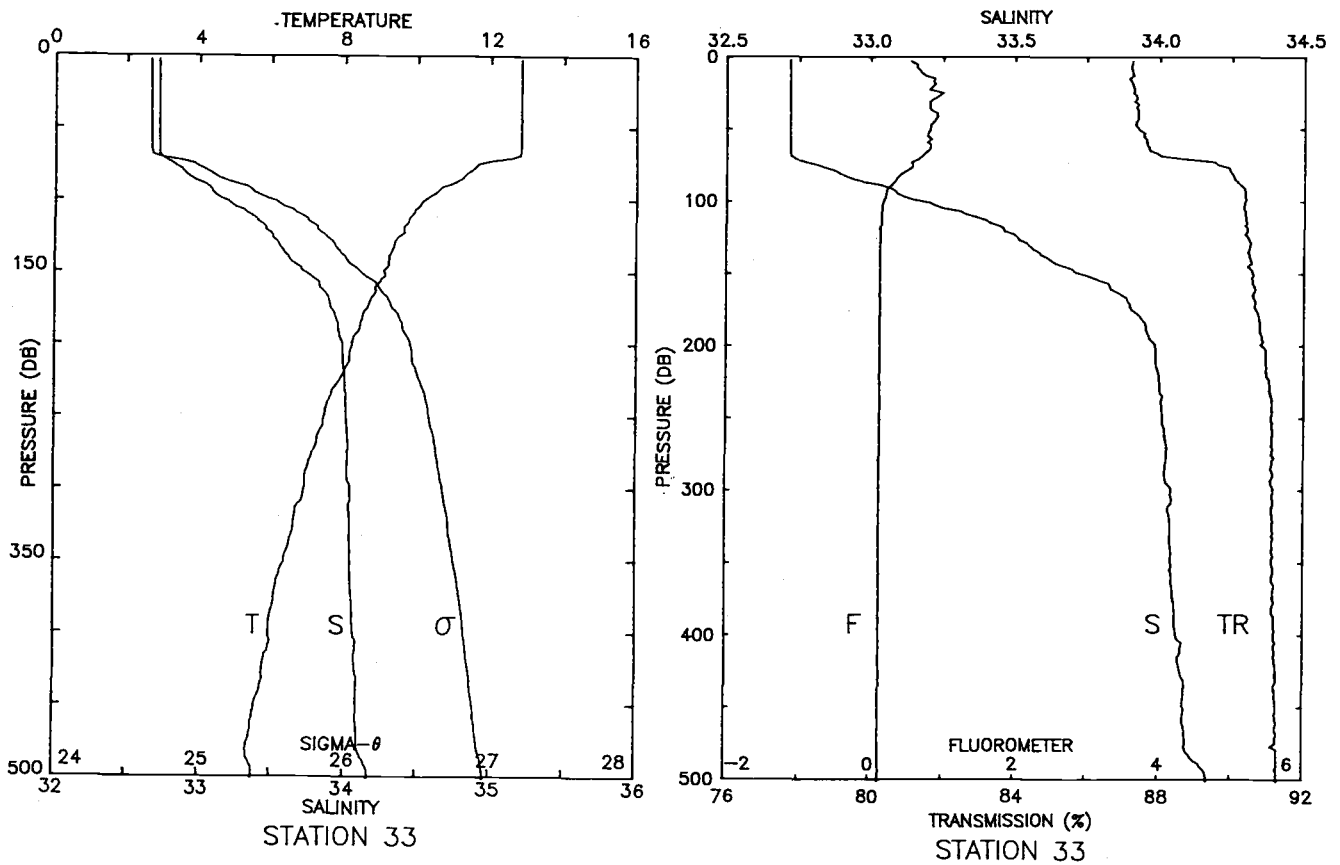
STA NO 31 LAT: 38 49.6 N LONG: 124 40.4 W
 21 MAY 1987 1737 GMT PROBE 2561 DEPTH 3580M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.327	32.826	12.327	24.840	310.0	0.003	85.3	1.27
10	12.272	32.827	12.271	24.852	309.1	0.031	85.2	1.01
20	11.820	32.846	11.818	24.951	299.9	0.062	86.3	1.41
30	11.708	32.852	11.704	24.977	297.7	0.091	86.8	1.13
40	11.548	32.866	11.544	25.017	294.1	0.121	86.9	1.05
50	11.492	32.869	11.486	25.029	293.1	0.150	87.3	1.13
60	10.805	32.962	10.797	25.225	274.7	0.179	90.4	0.35
70	10.384	33.116	10.376	25.418	256.5	0.205	90.4	0.21
80	9.883	33.241	9.874	25.600	239.4	0.230	90.6	0.16
90	9.710	33.356	9.700	25.719	228.3	0.254	90.6	0.15
100	9.548	33.497	9.537	25.855	215.5	0.276	90.6	0.14
110	9.337	33.570	9.325	25.947	207.0	0.297	90.6	0.14
120	9.261	33.668	9.248	26.036	198.7	0.317	90.7	0.14
130	9.093	33.764	9.079	26.138	189.2	0.337	90.7	0.13
140	8.835	33.827	8.820	26.228	180.8	0.355	90.6	0.13
150	8.456	33.817	8.441	26.279	176.0	0.373	90.4	0.14
175	8.249	33.953	8.231	26.417	163.3	0.415	90.7	0.14
200	7.938	33.991	7.918	26.494	156.4	0.455	90.8	0.13
225	7.340	33.969	7.319	26.563	150.0	0.494	91.0	0.14
250	7.163	33.987	7.140	26.602	146.6	0.531	90.9	0.14
300	6.626	34.013	6.599	26.696	138.2	0.602	90.9	0.14
400	5.858	34.085	5.824	26.852	124.2	0.733	90.9	0.14
500	5.287	34.154	5.246	26.976	113.2	0.852	90.9	0.14
501	5.284	34.155	5.243	26.977	113.1	0.853	91.1	0.14



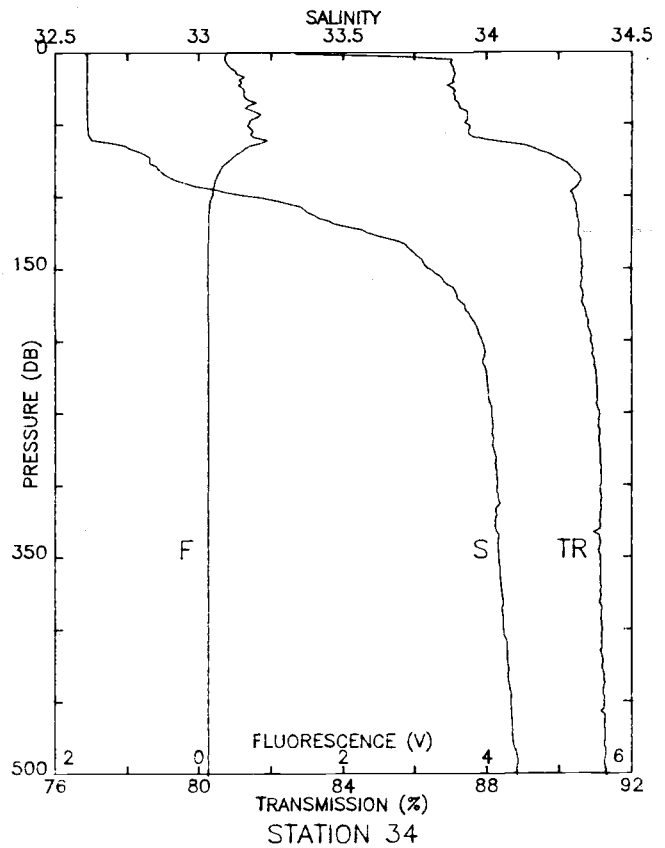
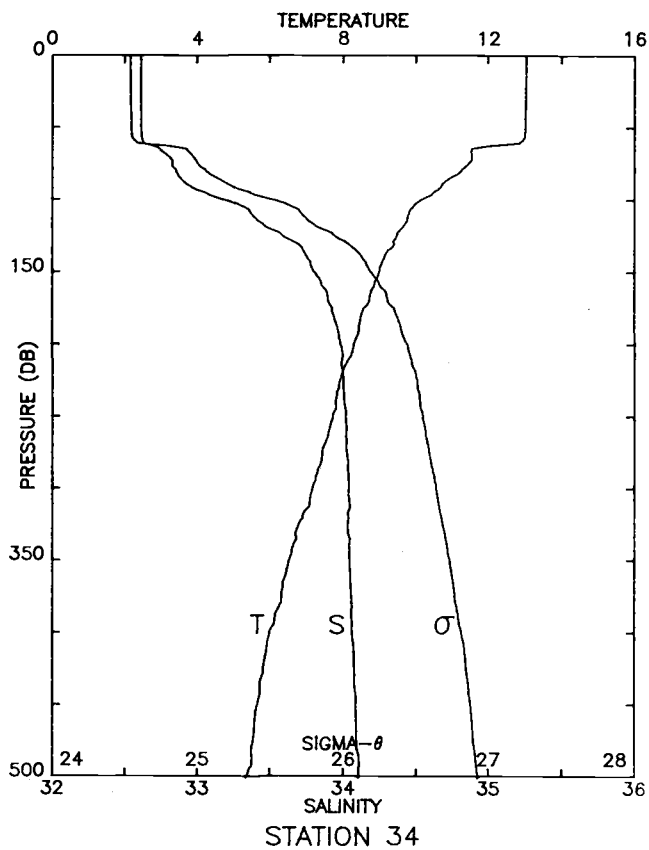
STA NO 32 LAT: 38 56.9 N LONG: 124 45.0 W
 21 MAY 1987 1913 GMT PROBE 2561 DEPTH 3409M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.798	32.784	12.798	24.717	321.8	0.003	85.7	0.65
10	12.798	32.784	12.796	24.717	322.0	0.032	85.8	0.87
20	12.792	32.784	12.789	24.718	322.1	0.064	85.8	1.04
30	12.776	32.784	12.772	24.722	322.0	0.097	86.1	1.08
40	12.627	32.780	12.622	24.748	319.8	0.129	87.4	0.89
50	12.347	32.778	12.340	24.800	315.1	0.160	88.3	0.67
60	12.252	32.783	12.244	24.822	313.2	0.192	88.6	0.66
70	11.517	32.889	11.509	25.041	292.5	0.222	89.9	0.50
80	11.034	33.027	11.025	25.235	274.2	0.250	90.3	0.28
90	10.749	33.099	10.738	25.342	264.2	0.277	90.4	0.23
100	10.009	33.286	9.998	25.614	238.5	0.302	90.6	0.15
110	9.561	33.464	9.549	25.828	218.3	0.325	90.6	0.14
120	9.420	33.559	9.407	25.925	209.2	0.346	90.6	0.14
130	9.208	33.644	9.194	26.026	199.8	0.367	90.7	0.13
140	9.040	33.708	9.025	26.102	192.7	0.387	90.7	0.13
150	8.891	33.790	8.875	26.191	184.5	0.405	90.5	0.13
175	8.393	33.916	8.375	26.366	168.2	0.450	90.8	0.13
200	7.928	33.956	7.909	26.468	158.8	0.490	90.0	0.14
225	7.782	33.993	7.760	26.519	154.4	0.529	89.9	0.14
250	7.351	33.989	7.327	26.577	149.1	0.567	90.7	0.14
300	6.862	34.002	6.835	26.656	142.1	0.640	90.8	0.14
400	5.882	34.067	5.848	26.834	125.9	0.774	91.1	0.14
500	5.350	34.135	5.309	26.954	115.4	0.894	91.2	0.14
501	5.344	34.136	5.303	26.955	115.2	0.895	91.2	0.14



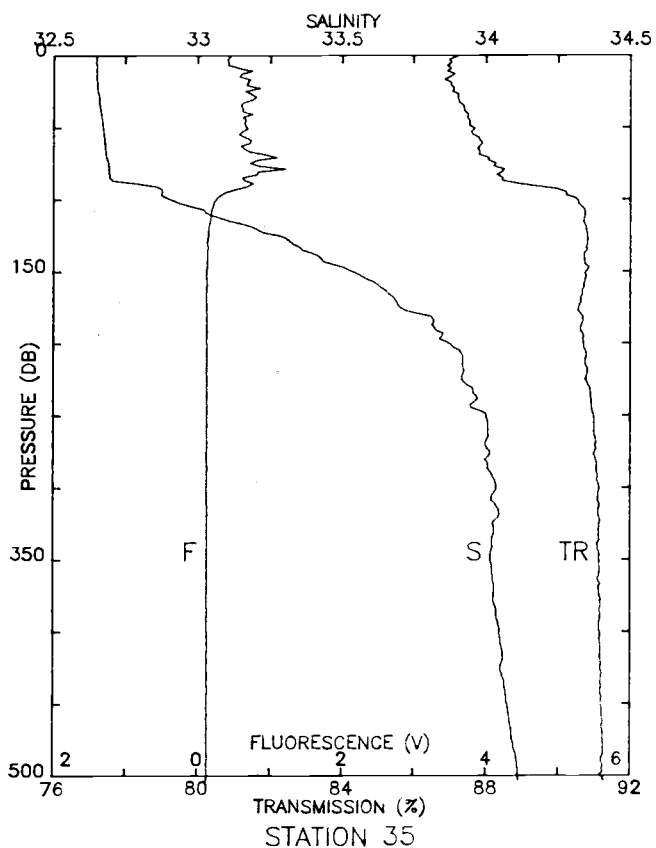
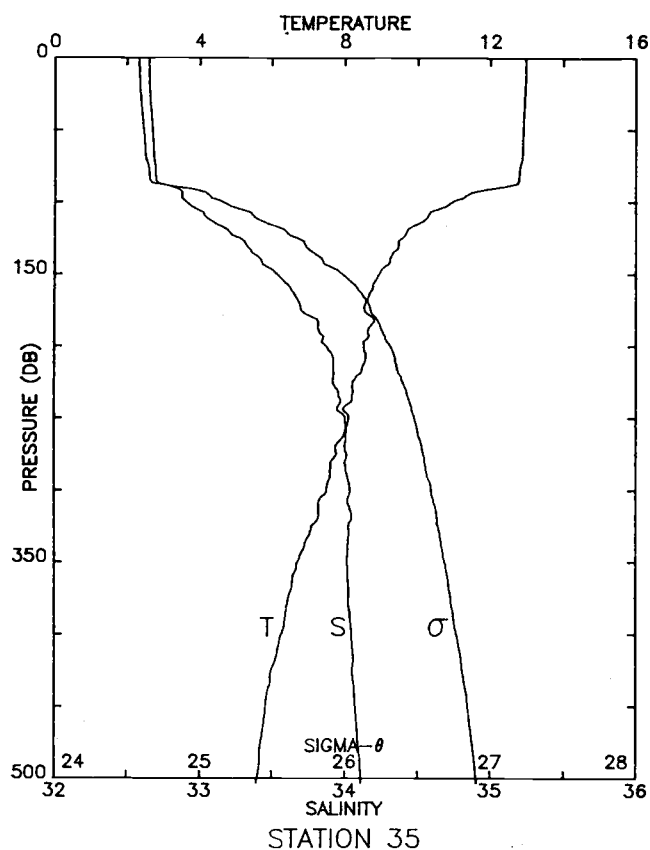
STA NO 33 LAT: 38 53.5 N LONG: 124 53.5 W
 21 MAY 1987 2017 GMT PROBE 2561 DEPTH 3500M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	12.822	32.717	12.821	24.660	327.2	0.010	87.2	0.55
10	12.818	32.717	12.817	24.661	327.3	0.033	87.2	0.69
20	12.819	32.717	12.817	24.661	327.5	0.065	87.2	0.87
30	12.816	32.717	12.812	24.662	327.7	0.098	87.3	0.85
40	12.818	32.717	12.813	24.662	328.0	0.131	87.4	0.92
50	12.816	32.717	12.809	24.663	328.2	0.164	87.4	0.82
60	12.811	32.718	12.803	24.664	328.3	0.197	87.7	0.80
70	12.652	32.728	12.643	24.703	324.8	0.229	88.4	0.68
80	11.425	32.882	11.415	25.053	291.6	0.260	90.0	0.47
90	10.781	33.050	10.771	25.298	268.4	0.288	90.3	0.26
100	10.184	33.175	10.173	25.499	249.5	0.314	90.4	0.18
110	9.858	33.347	9.846	25.687	231.7	0.338	90.4	0.15
120	9.626	33.465	9.613	25.818	219.5	0.361	90.4	0.14
130	9.362	33.548	9.347	25.926	209.3	0.382	90.5	0.14
140	9.214	33.621	9.198	26.008	201.8	0.403	85.4	0.13
150	9.088	33.728	9.072	26.111	192.1	0.422	85.2	0.13
175	8.608	33.905	8.590	26.325	172.1	0.467	90.7	0.13
200	8.200	33.987	8.180	26.452	160.5	0.509	73.9	0.13
225	7.854	34.001	7.832	26.515	154.8	0.548	91.0	0.13
250	7.452	34.012	7.428	26.581	148.8	0.586	91.1	0.13
300	6.927	34.044	6.900	26.680	139.9	0.658	91.2	0.14
400	5.945	34.064	5.910	26.824	126.9	0.791	91.2	0.13
500	5.514	34.171	5.473	26.963	114.7	0.912	91.3	0.13
501	5.507	34.171	5.466	26.963	114.6	0.913	91.3	0.13



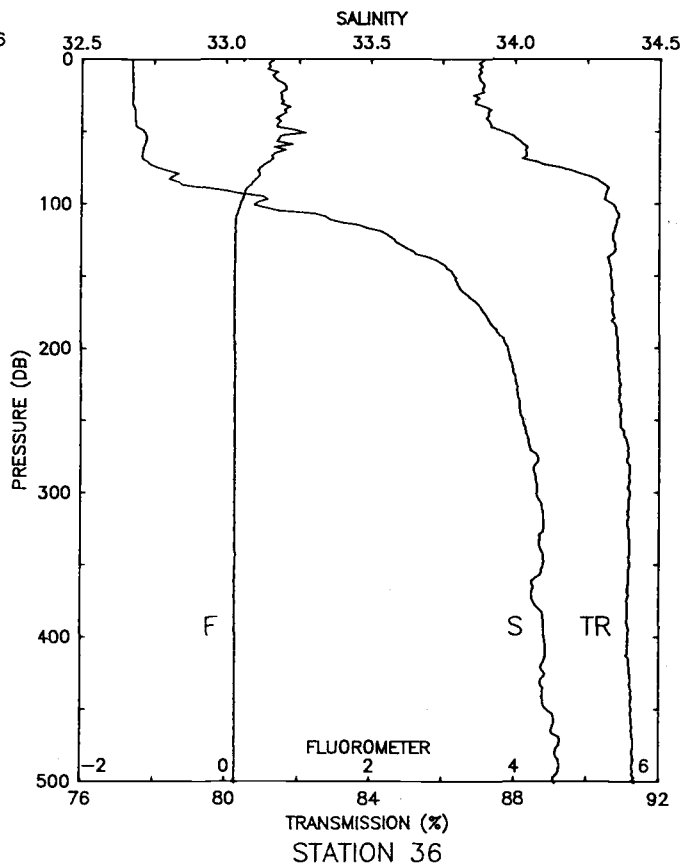
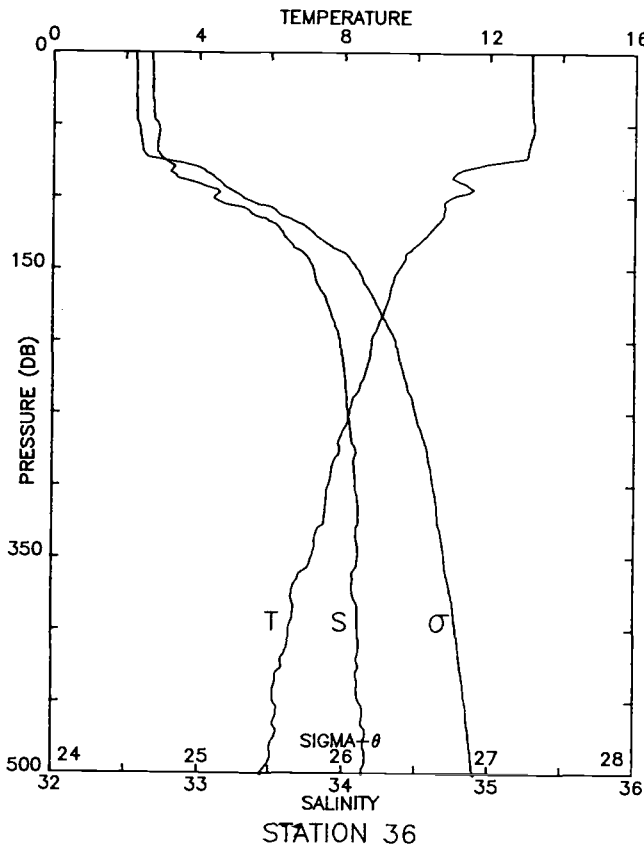
STA NO 34 LAT: 38 50.1 N LONG: 125 2.9 W
21 MAY 1987 2115 GMT PROBE 2561 DEPTH 3498M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	13.025	32.609	13.025	24.537	338.9	0.003	82.7	0.39
10	13.025	32.610	13.023	24.538	339.1	0.034	87.1	0.43
20	13.020	32.610	13.018	24.539	339.2	0.068	87.1	0.57
30	13.014	32.609	13.010	24.540	339.3	0.102	87.1	0.63
40	13.005	32.610	12.999	24.543	339.3	0.136	87.4	0.71
50	13.003	32.611	12.996	24.544	339.5	0.170	87.5	0.69
60	12.881	32.623	12.873	24.578	336.5	0.203	87.8	0.86
70	11.531	32.801	11.523	24.970	299.2	0.235	89.6	0.55
80	11.256	32.855	11.246	25.062	290.7	0.264	90.3	0.32
90	10.708	32.940	10.697	25.225	275.4	0.293	90.6	0.22
100	10.162	33.185	10.150	25.510	248.4	0.319	90.4	0.18
110	9.789	33.371	9.777	25.717	228.8	0.342	90.5	0.15
120	9.590	33.492	9.577	25.845	216.8	0.365	90.6	0.14
130	9.377	33.677	9.363	26.025	200.0	0.386	90.6	0.14
140	9.110	33.755	9.095	26.129	190.3	0.405	90.6	0.13
150	8.975	33.804	8.959	26.188	184.8	0.424	90.6	0.13
175	8.556	33.926	8.538	26.349	169.8	0.468	90.7	0.13
200	8.289	33.984	8.268	26.436	162.0	0.510	90.9	0.14
225	7.899	34.002	7.877	26.509	155.4	0.549	91.0	0.13
250	7.710	34.017	7.686	26.548	152.0	0.588	91.1	0.13
300	7.169	34.038	7.141	26.642	143.6	0.662	91.2	0.14
400	5.997	34.060	5.963	26.815	127.9	0.798	91.2	0.14
500	5.357	34.104	5.316	26.929	117.7	0.920	91.3	0.14
501	5.342	34.105	5.301	26.930	117.5	0.921	91.3	0.14



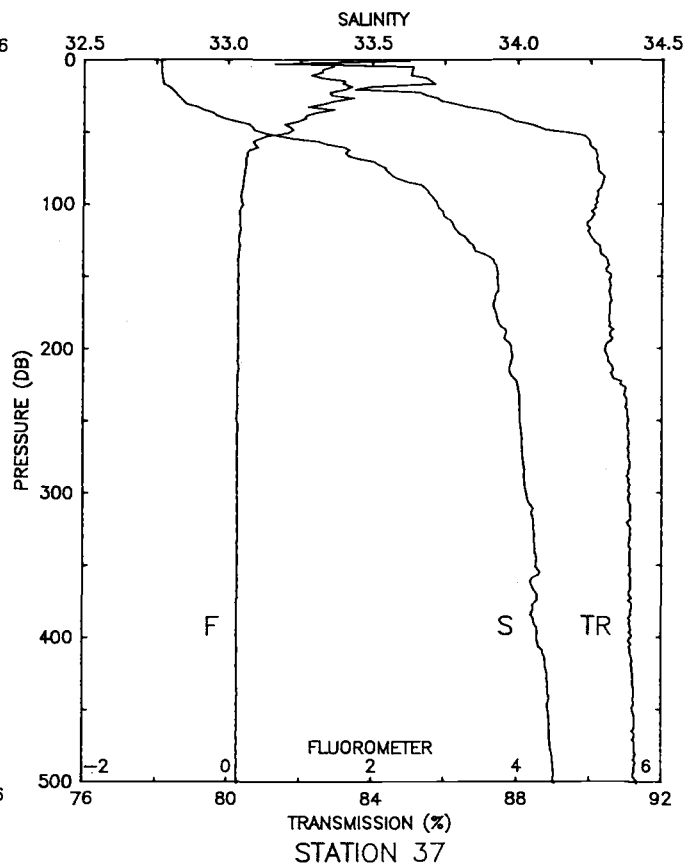
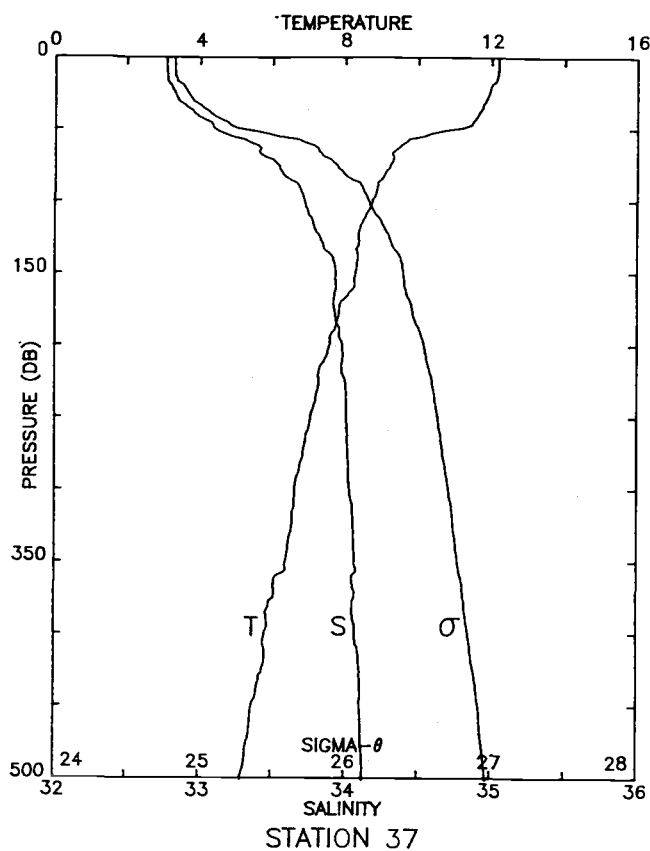
STA NO 35 LAT: 38 46.4 N LONG: 125 10.4 W
 21 MAY 1987 2226 GMT PROBE 2561 DEPTH 3436M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.962	32.649	12.962	24.580	334.8	0.003	87.2	0.44
10	12.958	32.649	12.956	24.582	334.9	0.033	87.0	0.66
20	12.949	32.651	12.946	24.585	334.8	0.067	87.0	0.68
30	12.928	32.658	12.924	24.595	334.1	0.100	87.2	0.78
40	12.911	32.665	12.906	24.604	333.5	0.134	87.5	0.69
50	12.897	32.672	12.891	24.612	333.0	0.167	87.6	0.67
60	12.881	32.679	12.874	24.621	332.4	0.200	87.9	0.73
70	12.860	32.685	12.850	24.630	331.8	0.234	87.9	1.01
80	12.785	32.693	12.774	24.651	330.0	0.267	88.5	1.02
90	12.151	32.822	12.139	24.872	309.1	0.299	89.1	0.73
100	10.942	32.906	10.930	25.158	282.0	0.329	90.5	0.26
110	10.276	33.038	10.263	25.376	261.3	0.356	90.8	0.18
120	9.713	33.197	9.700	25.595	240.6	0.381	90.8	0.15
130	9.474	33.324	9.459	25.733	227.7	0.404	90.8	0.14
140	9.239	33.422	9.224	25.848	216.9	0.426	90.7	0.14
150	8.935	33.538	8.919	25.986	203.9	0.447	90.8	0.12
175	8.531	33.704	8.513	26.180	185.9	0.496	90.6	0.13
200	8.519	33.872	8.499	26.313	173.7	0.541	90.7	0.13
225	8.207	33.918	8.184	26.397	166.1	0.583	90.8	0.13
250	8.105	34.001	8.079	26.478	158.9	0.624	91.0	0.13
300	7.486	34.035	7.457	26.595	148.3	0.700	91.1	0.13
400	6.251	34.047	6.216	26.772	132.1	0.840	91.2	0.13
500	5.579	34.113	5.537	26.909	119.9	0.966	91.2	0.14
503	5.562	34.114	5.520	26.912	119.6	0.969	91.3	0.13



STA NO 36 LAT: 38 43.0 N LONG: 125 19.0 W
 21 MAY 1987 2332 GMT PROBE 2561 DEPTH 3600M

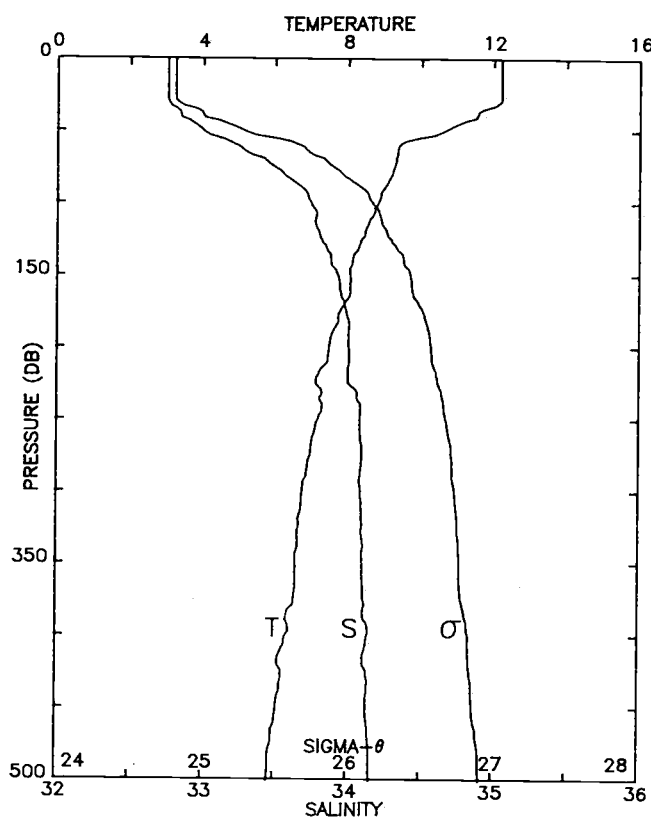
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	13.139	32.674	13.139	24.565	336.2	0.003	87.1	0.64
10	13.138	32.675	13.137	24.566	336.4	0.034	87.0	0.67
20	13.145	32.677	13.142	24.567	336.6	0.067	87.1	0.82
30	13.140	32.675	13.136	24.566	336.9	0.101	86.8	0.77
40	13.166	32.685	13.160	24.569	336.9	0.135	87.2	0.72
50	13.215	32.716	13.208	24.583	335.8	0.168	87.6	1.02
60	13.130	32.716	13.122	24.601	334.4	0.202	88.3	0.79
70	13.034	32.720	13.025	24.623	332.5	0.235	88.4	0.62
80	11.450	32.827	11.440	25.005	296.1	0.267	89.9	0.46
90	11.227	32.963	11.216	25.151	282.4	0.296	90.6	0.28
100	10.990	33.104	10.978	25.304	268.1	0.323	90.7	0.20
110	10.746	33.352	10.733	25.539	245.9	0.349	90.9	0.14
120	10.514	33.545	10.500	25.731	227.9	0.373	90.7	0.14
130	10.142	33.621	10.128	25.854	216.4	0.395	90.8	0.13
140	9.690	33.738	9.674	26.021	200.7	0.416	90.6	0.14
150	9.506	33.793	9.490	26.095	193.8	0.436	87.3	0.13
175	9.170	33.895	9.151	26.229	181.5	0.483	82.4	0.13
200	8.769	33.976	8.748	26.356	169.8	0.526	90.9	0.13
225	8.551	34.007	8.527	26.415	164.6	0.568	91.0	0.13
250	8.152	34.031	8.127	26.494	157.4	0.608	91.0	0.13
300	7.588	34.079	7.559	26.615	146.5	0.684	91.2	0.14
400	6.544	34.105	6.508	26.780	131.7	0.823	91.1	0.14
500	5.778	34.139	5.736	26.906	120.4	0.949	91.3	0.14
501	5.778	34.142	5.735	26.907	120.2	0.950	91.3	0.14



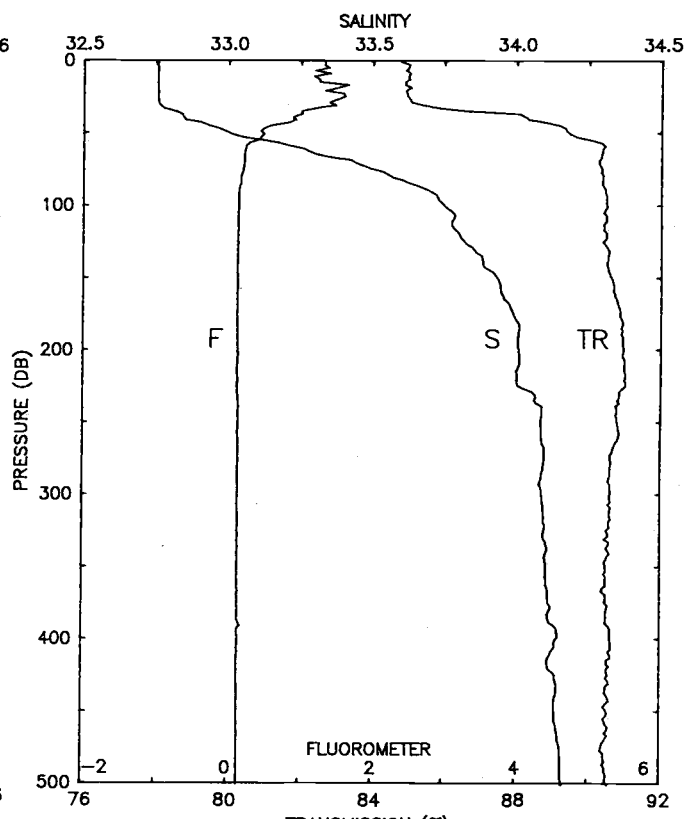
STA NO 37 LAT: 39 4.4 N LONG: 124 25.0 W
22 MAY 1987 0427 GMT PROBE 2561 DEPTH 3286M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP			THETA				
1	12.185	32.767	12.185	24.821	311.9	0.003	84.9	1.68
10	12.177	32.768	12.176	24.824	311.8	0.031	85.1	1.22
20	11.985	32.800	11.983	24.885	306.2	0.062	82.9	1.67
30	11.839	32.850	11.835	24.951	300.2	0.093	86.1	1.39
40	11.619	32.974	11.614	25.088	287.4	0.122	87.7	1.07
50	10.974	33.108	10.968	25.308	266.6	0.150	89.1	0.86
60	9.594	33.370	9.587	25.748	224.9	0.174	90.0	0.40
70	9.311	33.475	9.304	25.876	212.8	0.196	90.2	0.24
80	9.085	33.566	9.076	25.984	202.8	0.217	90.3	0.22
90	8.861	33.686	8.851	26.113	190.7	0.236	90.2	0.19
100	8.734	33.724	8.724	26.163	186.2	0.255	90.2	0.20
110	8.551	33.759	8.540	26.218	181.0	0.274	90.0	0.17
120	8.380	33.798	8.367	26.275	175.8	0.291	90.0	0.17
130	8.353	33.851	8.340	26.321	171.6	0.309	90.3	0.17
140	8.322	33.919	8.308	26.379	166.3	0.326	90.5	0.15
150	8.266	33.934	8.251	26.399	164.5	0.342	90.6	0.15
175	7.821	33.926	7.804	26.459	159.2	0.383	90.6	0.14
200	7.557	33.979	7.538	26.540	151.8	0.422	90.4	0.15
225	7.284	34.002	7.263	26.596	146.8	0.459	90.9	0.14
250	7.051	34.010	7.028	26.635	143.4	0.495	91.1	0.13
300	6.624	34.032	6.597	26.711	136.7	0.565	91.1	0.14
400	5.799	34.071	5.766	26.848	124.6	0.696	91.2	0.14
500	5.161	34.128	5.121	26.971	113.5	0.815	91.3	0.15
501	5.161	34.130	5.121	26.972	113.4	0.816	91.3	0.15

LIN INT SAL 21-31 DB



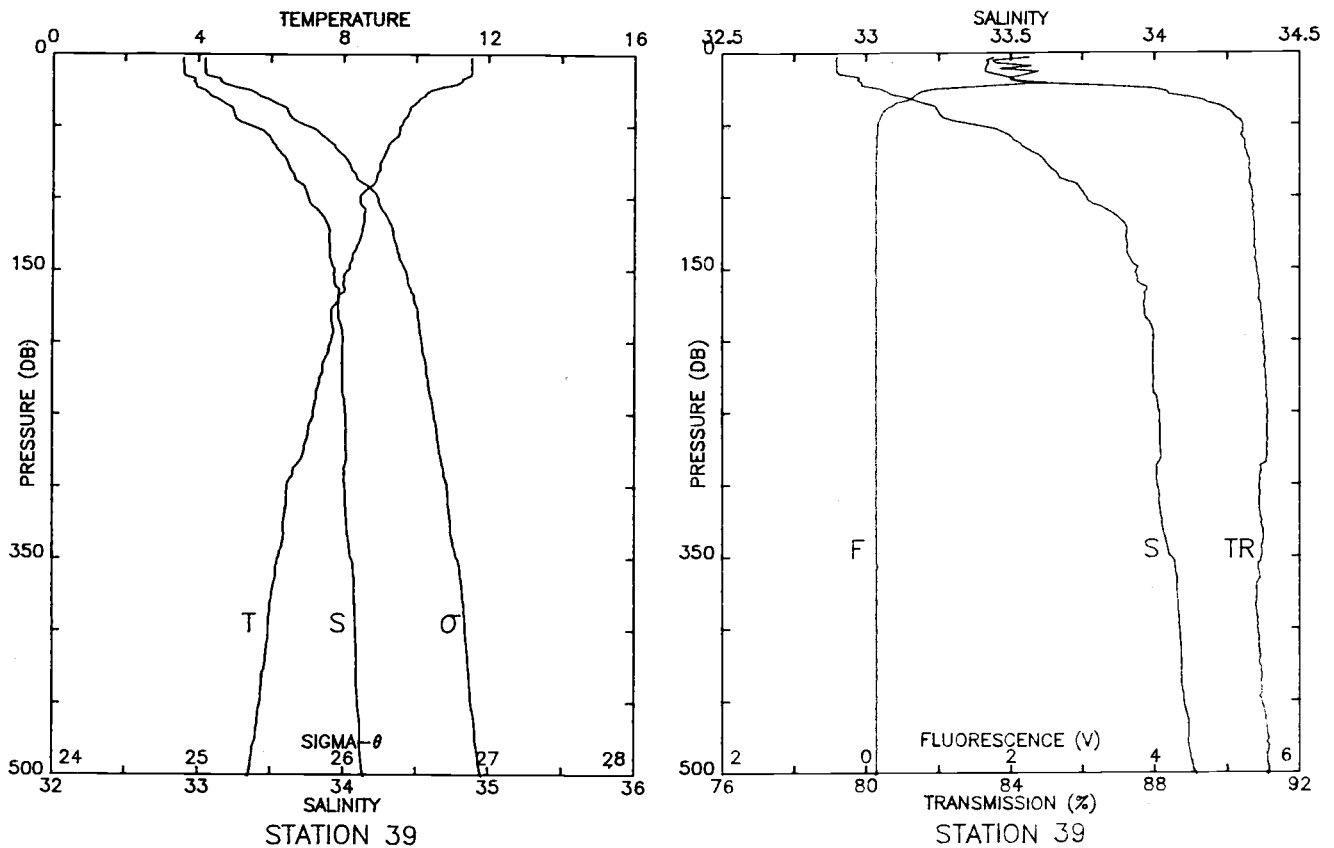
STATION 38



STATION 38

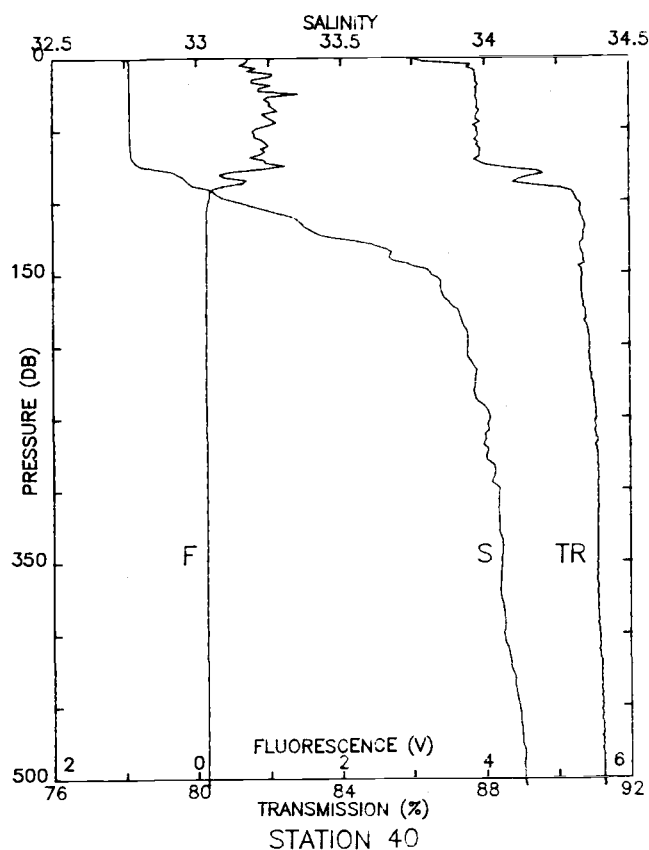
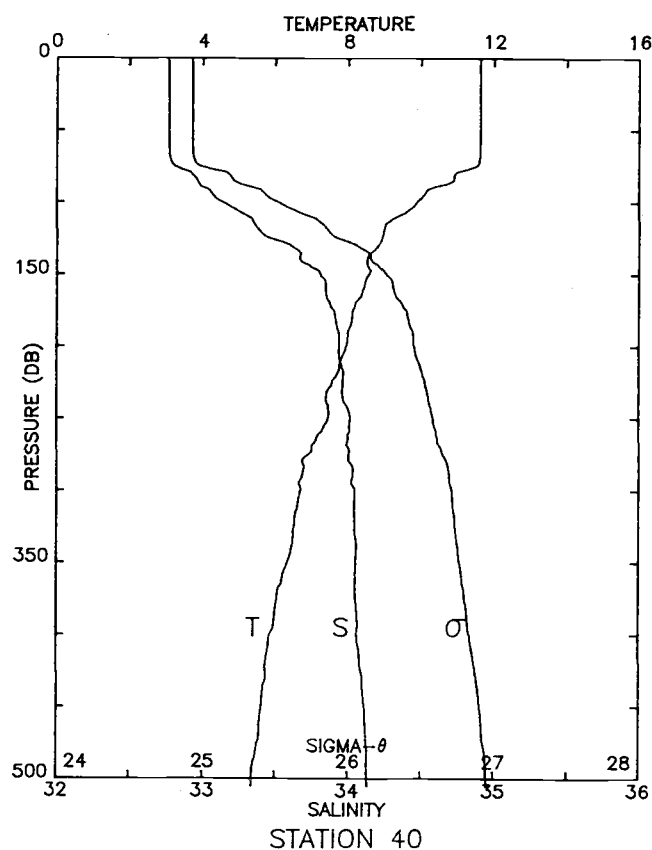
STA NO 38 LAT: 39 11.8 N LONG: 124 7.6 W
 22 MAY 1987 0707 GMT PROBE 2561 DEPTH 905M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.205	32.755	12.204	24.808	313.1	0.003	84.6	1.32
10	12.204	32.755	12.203	24.808	313.3	0.031	85.0	1.29
20	12.208	32.755	12.206	24.808	313.6	0.063	85.0	1.42
30	12.167	32.760	12.164	24.820	312.7	0.094	85.2	1.43
40	11.528	32.848	11.523	25.007	295.1	0.124	88.3	0.91
50	10.646	33.000	10.640	25.282	269.0	0.152	89.4	0.47
60	9.404	33.232	9.398	25.671	232.1	0.177	90.4	0.24
70	9.308	33.432	9.300	25.843	216.0	0.200	90.3	0.22
80	9.191	33.562	9.183	25.963	204.8	0.221	90.4	0.18
90	8.967	33.696	8.957	26.104	191.6	0.241	90.5	0.15
100	8.814	33.749	8.803	26.170	185.5	0.260	90.5	0.15
110	8.625	33.781	8.614	26.224	180.5	0.278	90.5	0.14
120	8.465	33.803	8.452	26.266	176.6	0.296	90.5	0.14
130	8.293	33.852	8.280	26.331	170.7	0.313	90.5	0.14
140	8.120	33.886	8.106	26.383	165.8	0.330	90.5	0.13
150	8.063	33.934	8.048	26.430	161.6	0.346	90.6	0.14
175	7.782	33.991	7.765	26.516	153.8	0.386	90.9	0.13
200	7.490	34.009	7.471	26.573	148.7	0.424	91.0	0.14
225	7.134	34.006	7.113	26.621	144.4	0.460	91.0	0.13
250	7.193	34.087	7.170	26.676	139.6	0.496	90.8	0.15
300	6.772	34.092	6.745	26.739	134.2	0.564	90.6	0.15
400	6.337	34.144	6.301	26.838	126.0	0.695	90.6	0.15
500	5.835	34.163	5.792	26.918	119.3	0.818	90.5	0.15
501	5.833	34.163	5.790	26.918	119.3	0.819	90.6	0.15



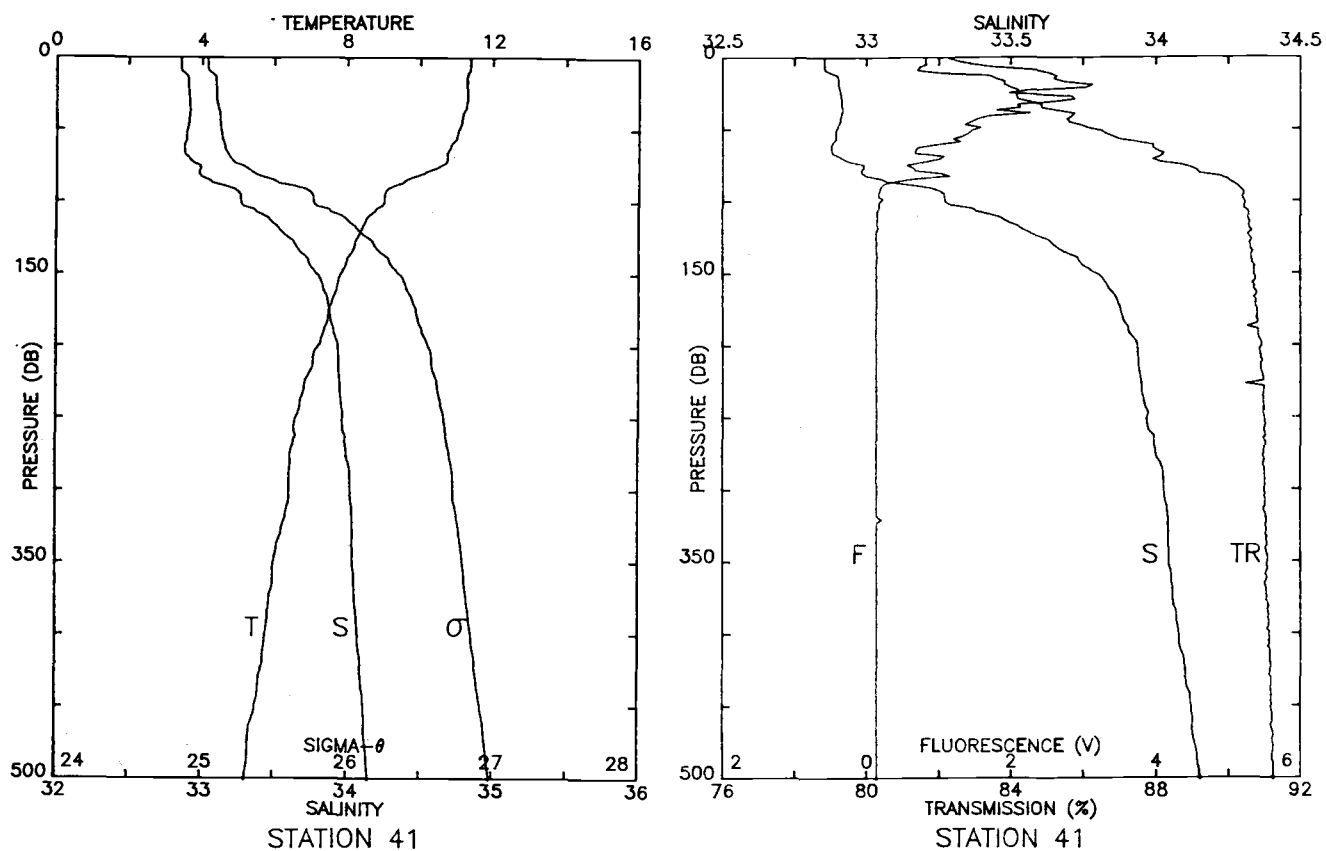
STA NO 39 LAT: 39 36.7 N LONG: 124 4.9 W
 22 MAY 1987 1137 GMT PROBE 2561 DEPTH 921M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	11.519	32.897	11.519	25.045	290.5	0.009	83.5	2.24
10	11.523	32.897	11.522	25.045	290.7	0.029	83.3	2.06
20	11.172	32.978	11.170	25.171	278.9	0.058	84.3	2.29
30	10.149	33.111	10.146	25.453	252.3	0.084	88.7	0.67
40	9.787	33.245	9.783	25.618	236.8	0.108	90.0	0.26
50	9.556	33.374	9.551	25.757	223.8	0.132	90.4	0.16
60	9.334	33.508	9.327	25.898	210.6	0.153	90.5	0.14
70	9.110	33.586	9.103	25.995	201.5	0.174	90.5	0.14
80	8.986	33.638	8.977	26.056	196.0	0.194	90.6	0.14
90	8.827	33.714	8.817	26.140	188.1	0.213	90.6	0.13
100	8.444	33.762	8.434	26.237	179.1	0.231	90.7	0.13
110	8.577	33.841	8.565	26.279	175.3	0.249	90.7	0.14
120	8.530	33.900	8.517	26.332	170.4	0.266	90.8	0.13
130	8.422	33.904	8.409	26.352	168.7	0.283	90.8	0.13
140	8.240	33.908	8.226	26.383	165.9	0.300	90.8	0.13
150	8.120	33.940	8.105	26.426	162.0	0.316	90.8	0.13
175	7.710	33.961	7.693	26.503	155.0	0.356	90.9	0.13
200	7.641	33.995	7.621	26.540	151.8	0.394	91.0	0.13
225	7.338	33.995	7.317	26.584	148.0	0.432	91.0	0.13
250	7.160	34.016	7.136	26.625	144.4	0.468	91.1	0.13
300	6.437	34.008	6.410	26.717	136.1	0.539	90.9	0.13
400	5.933	34.086	5.899	26.843	125.1	0.669	90.8	0.14
500	5.397	34.142	5.356	26.953	115.4	0.790	91.1	0.14
501	5.382	34.145	5.341	26.958	115.0	0.791	91.1	0.14



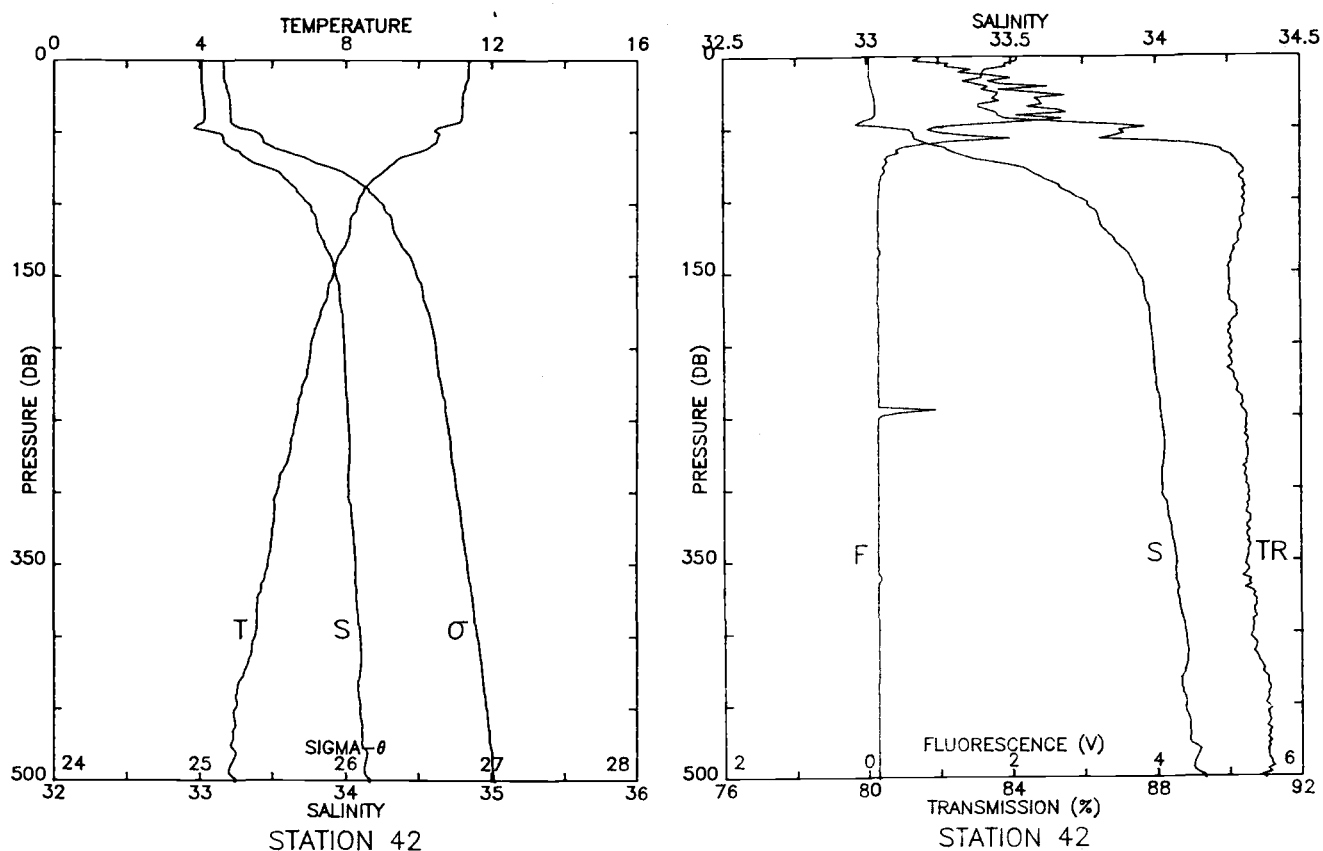
STA NO 40 LAT: 39 23.0 N LONG: 124 39.0 W
 22 MAY 1987 1447 GMT PROBE 2561 DEPTH 2967M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.616	32.762	11.616	24.922	302.2	0.003	86.0	0.71
10	11.616	32.765	11.615	24.926	302.1	0.030	87.7	0.88
20	11.617	32.766	11.614	24.926	302.3	0.060	87.8	0.95
30	11.617	32.767	11.613	24.928	302.4	0.091	87.8	0.98
40	11.618	32.768	11.614	24.928	302.6	0.121	87.8	0.94
50	11.620	32.767	11.614	24.927	302.9	0.151	87.8	0.80
60	11.617	32.769	11.610	24.930	302.9	0.181	87.8	0.98
70	11.598	32.779	11.589	24.941	302.0	0.212	87.8	0.84
80	10.933	32.925	10.924	25.174	280.0	0.241	89.5	0.40
90	10.286	33.015	10.275	25.356	262.8	0.269	89.7	0.31
100	9.871	33.143	9.859	25.526	246.8	0.294	90.6	0.16
110	9.321	33.322	9.309	25.755	225.1	0.318	90.7	0.14
120	8.957	33.396	8.944	25.871	214.2	0.340	90.7	0.13
130	8.796	33.612	8.783	26.065	196.0	0.360	90.6	0.14
140	8.501	33.675	8.486	26.160	187.1	0.379	90.7	0.12
150	8.546	33.814	8.530	26.263	177.6	0.397	90.7	0.13
175	8.118	33.906	8.101	26.400	164.9	0.440	90.8	0.12
200	7.939	33.940	7.920	26.453	160.2	0.481	90.9	0.13
225	7.553	33.965	7.532	26.529	153.3	0.520	91.0	0.13
250	7.457	34.016	7.433	26.583	148.5	0.558	91.1	0.13
300	6.698	34.048	6.671	26.714	136.5	0.629	91.1	0.14
400	5.852	34.063	5.818	26.835	125.8	0.761	91.2	0.14
500	5.352	34.132	5.311	26.951	115.6	0.881	91.2	0.14
505	5.351	34.138	5.310	26.956	115.2	0.886	91.3	0.14



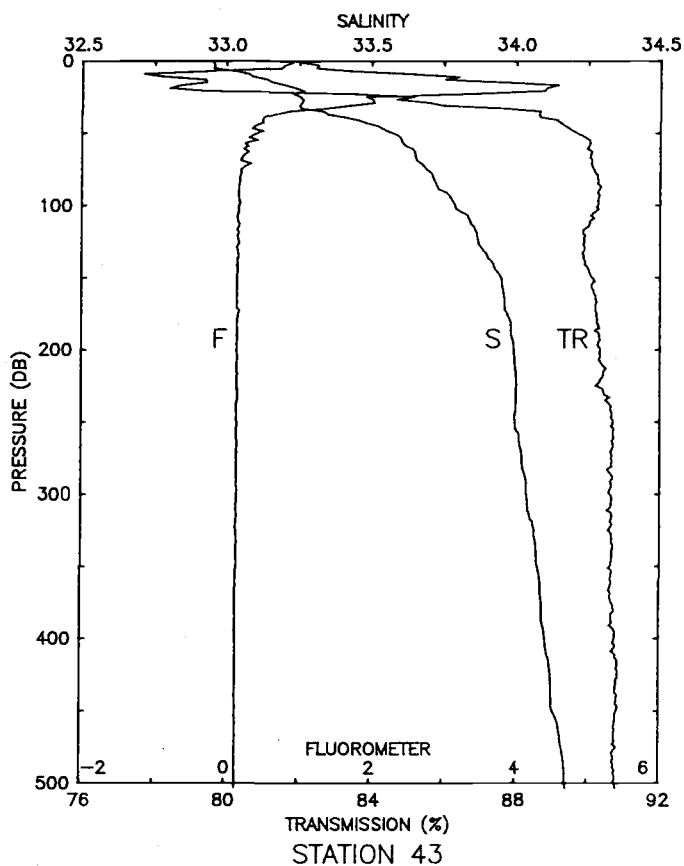
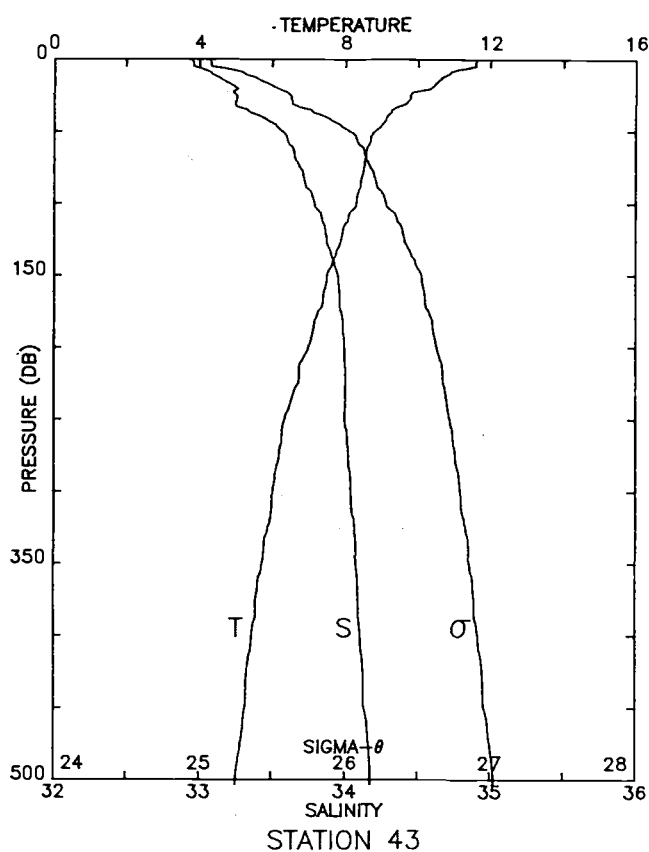
STA NO 41 LAT: 39 42.1 N LONG: 124 51.0 W
 22 MAY 1987 1836 GMT PROBE 2561 DEPTH 1856M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.376	32.853	11.376	25.037	291.3	0.003	81.6	1.14
10	11.336	32.865	11.335	25.054	289.8	0.029	81.7	2.45
20	11.277	32.904	11.275	25.095	286.2	0.058	83.9	3.09
30	11.288	32.913	11.284	25.101	285.9	0.086	84.4	2.72
40	11.163	32.912	11.158	25.123	284.0	0.115	85.7	1.98
50	11.057	32.896	11.051	25.129	283.6	0.143	86.3	1.52
60	10.862	32.880	10.854	25.151	281.7	0.172	87.7	1.12
70	10.734	32.912	10.726	25.199	277.4	0.200	88.0	1.03
80	10.117	32.982	10.108	25.359	262.3	0.227	89.2	0.84
90	9.184	33.188	9.175	25.672	232.6	0.252	90.3	0.21
100	8.990	33.270	8.980	25.767	223.7	0.274	90.4	0.20
110	8.582	33.443	8.571	25.966	205.0	0.296	90.5	0.15
120	8.372	33.547	8.360	26.079	194.3	0.316	90.6	0.15
130	8.192	33.648	8.179	26.185	184.4	0.334	90.6	0.14
140	7.982	33.733	7.968	26.284	175.2	0.352	90.6	0.14
150	7.816	33.794	7.801	26.356	168.5	0.370	90.7	0.13
175	7.479	33.879	7.462	26.472	157.8	0.410	90.8	0.13
200	7.207	33.935	7.188	26.554	150.3	0.449	90.9	0.13
225	6.842	33.949	6.822	26.615	144.8	0.486	91.0	0.13
250	6.595	33.968	6.573	26.663	140.5	0.522	91.0	0.13
300	6.431	34.027	6.405	26.732	134.6	0.590	91.0	0.14
400	5.774	34.077	5.741	26.856	123.8	0.719	91.1	0.13
500	5.224	34.152	5.184	26.982	112.6	0.837	91.2	0.14
501	5.223	34.152	5.183	26.982	112.5	0.838	91.2	0.14



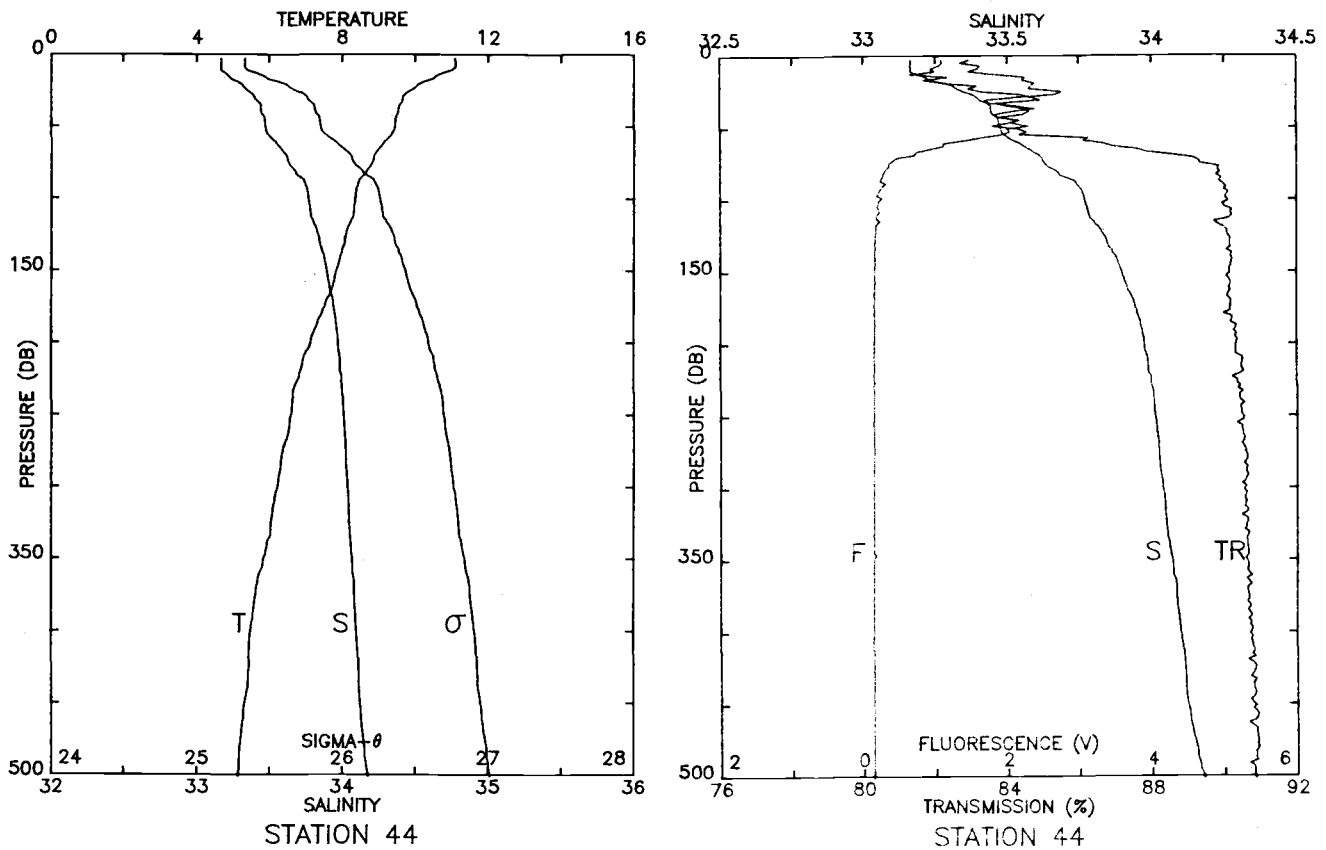
STA NO 42 LAT: 40 0.2 N LONG: 125 5.1 W
 22 MAY 1987 2109 GMT PROBE 2561 DEPTH 1574M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.369	33.007	11.369	25.158	279.7	0.003	84.2	0.73
10	11.355	33.008	11.354	25.162	279.6	0.028	83.2	1.36
20	11.265	33.014	11.263	25.183	277.8	0.056	83.2	2.17
30	11.196	33.027	11.192	25.206	275.9	0.084	83.6	2.36
40	11.174	33.029	11.169	25.211	275.6	0.111	83.6	2.42
50	10.495	33.106	10.489	25.390	258.7	0.138	87.3	0.90
60	10.304	33.207	10.297	25.503	248.2	0.164	88.5	0.97
70	9.347	33.358	9.339	25.779	222.1	0.187	90.1	0.27
80	8.866	33.572	8.857	26.022	199.1	0.208	90.4	0.25
90	8.480	33.669	8.470	26.158	186.3	0.227	90.5	0.17
100	8.298	33.756	8.288	26.255	177.3	0.245	90.4	0.16
110	8.121	33.800	8.110	26.316	171.7	0.263	90.4	0.15
120	8.089	33.822	8.077	26.338	169.8	0.280	90.4	0.15
130	7.938	33.867	7.925	26.395	164.5	0.297	90.3	0.15
140	7.737	33.914	7.723	26.462	158.3	0.313	90.1	0.15
150	7.642	33.937	7.627	26.494	155.4	0.328	90.0	0.15
175	7.308	33.976	7.291	26.572	148.3	0.366	90.2	0.15
200	7.030	33.989	7.012	26.621	143.9	0.403	90.1	0.15
225	6.831	34.000	6.811	26.657	140.8	0.439	90.2	0.14
250	6.632	34.017	6.609	26.697	137.3	0.473	90.5	0.17
300	6.117	34.020	6.091	26.767	131.0	0.540	90.6	0.15
400	5.503	34.099	5.471	26.906	118.8	0.665	90.6	0.14
500	4.963	34.164	4.924	27.022	108.5	0.778	91.0	0.14
501	4.955	34.166	4.916	27.024	108.3	0.779	91.0	0.14



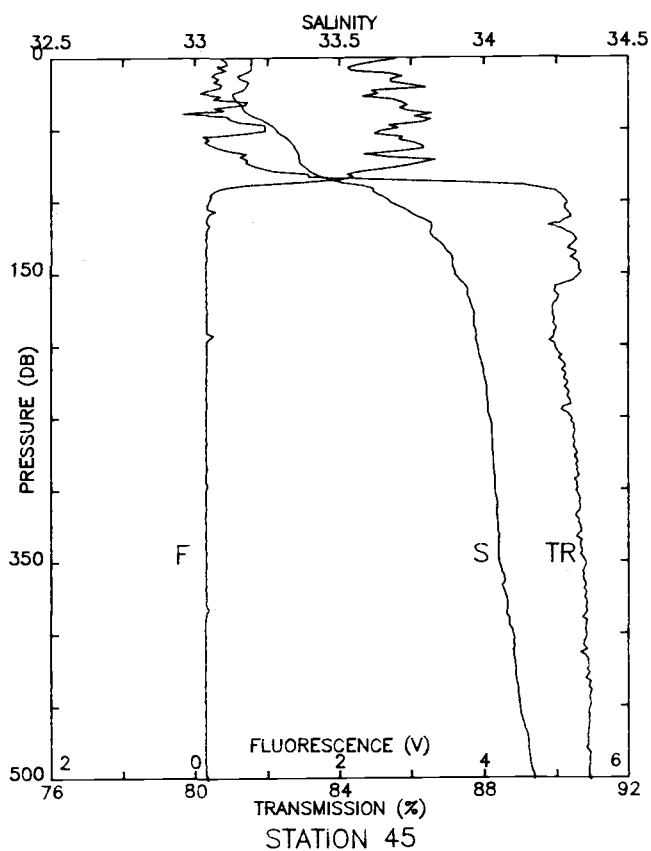
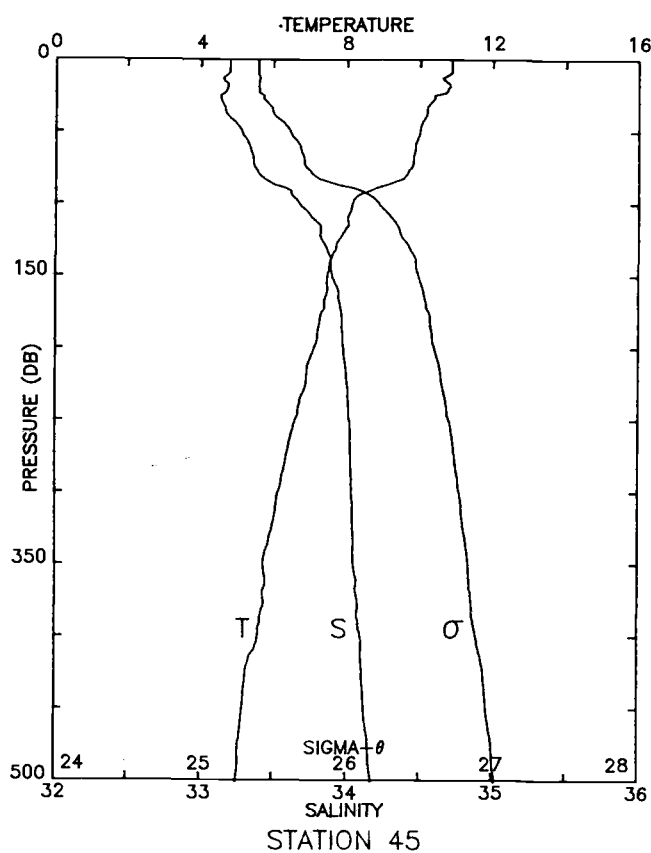
STA NO 43 LAT: 40 0.0 N LONG: 125 30.1 W
 22 MAY 1987 2329 GMT PROBE 2561 DEPTH 2957M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.612	32.952	11.612	25.071	288.0	0.003	81.8	1.03
10	10.859	33.082	10.858	25.308	265.7	0.028	78.0	2.87
20	10.354	33.252	10.352	25.528	245.0	0.054	78.9	4.40
30	9.693	33.254	9.690	25.640	234.5	0.077	85.8	1.87
40	9.135	33.430	9.131	25.868	213.0	0.100	88.9	0.51
50	8.793	33.573	8.788	26.035	197.4	0.120	89.7	0.45
60	8.612	33.632	8.606	26.109	190.5	0.140	90.0	0.27
70	8.528	33.666	8.521	26.149	186.9	0.158	90.1	0.28
80	8.460	33.714	8.452	26.197	182.5	0.177	90.3	0.19
90	8.379	33.747	8.370	26.235	179.1	0.195	90.3	0.17
100	8.294	33.790	8.284	26.282	174.8	0.213	90.3	0.18
110	8.080	33.840	8.069	26.353	168.2	0.230	90.1	0.16
120	7.923	33.865	7.911	26.396	164.2	0.246	89.9	0.17
130	7.828	33.883	7.815	26.424	161.7	0.263	89.9	0.16
140	7.657	33.920	7.643	26.478	156.7	0.279	89.9	0.16
150	7.499	33.949	7.484	26.524	152.5	0.294	90.1	0.15
175	7.254	33.971	7.238	26.576	147.9	0.332	90.2	0.17
200	6.993	33.994	6.975	26.630	143.0	0.368	90.3	0.15
225	6.719	34.004	6.698	26.675	139.0	0.403	90.2	0.15
250	6.351	33.998	6.329	26.719	135.0	0.437	90.7	0.15
300	6.021	34.039	5.996	26.794	128.5	0.503	90.6	0.15
400	5.452	34.106	5.419	26.917	117.6	0.626	90.8	0.14
500	5.016	34.177	4.977	27.025	108.2	0.739	90.8	0.14
503	5.015	34.177	4.975	27.026	108.2	0.742	90.8	0.14



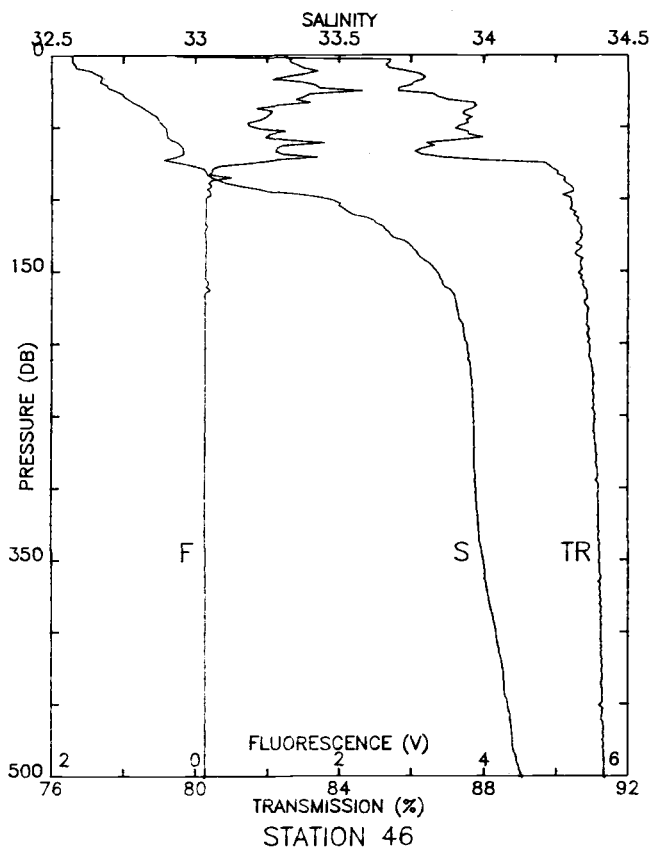
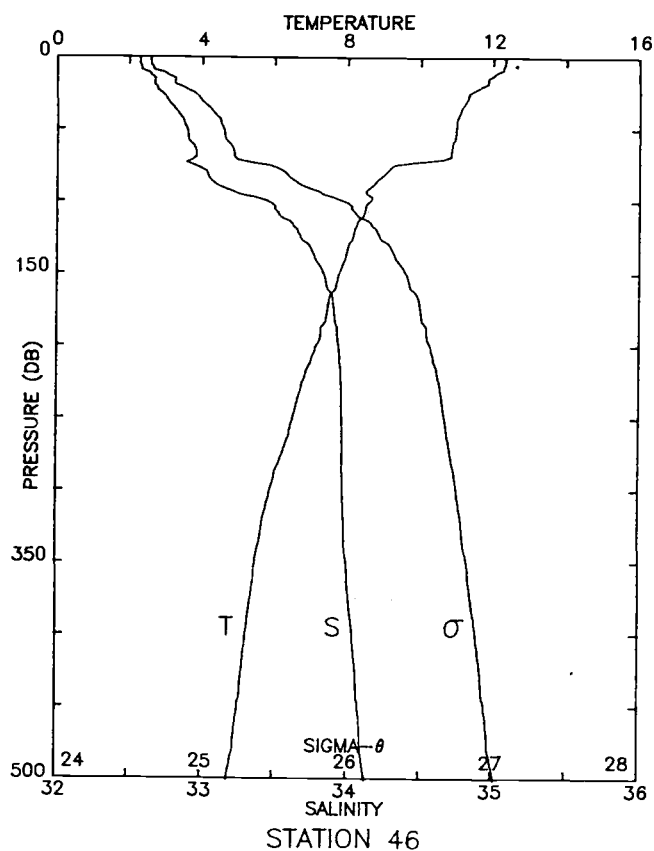
STA NO 44 LAT: 40 0.0 N LONG: 125 40.0 W
 23 MAY 1987 0051 GMT PROBE 2561 DEPTH 3455M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	11.100	33.166	11.099	25.330	263.4	0.008	82.2	1.46
10	11.054	33.165	11.053	25.338	262.8	0.026	81.9	1.52
20	10.151	33.297	10.149	25.597	238.4	0.051	82.7	2.36
30	9.651	33.400	9.648	25.762	222.9	0.074	84.8	1.91
40	9.515	33.447	9.511	25.821	217.5	0.096	84.5	1.93
50	9.433	33.474	9.428	25.855	214.4	0.118	83.9	2.15
60	9.167	33.534	9.160	25.945	206.1	0.139	86.4	1.26
70	8.864	33.617	8.856	26.058	195.5	0.159	88.8	0.59
80	8.674	33.672	8.665	26.131	188.8	0.178	89.9	0.30
90	8.418	33.747	8.408	26.229	179.6	0.197	90.0	0.29
100	8.338	33.771	8.328	26.260	176.8	0.215	90.1	0.24
110	8.297	33.785	8.285	26.277	175.4	0.232	90.2	0.21
120	8.140	33.822	8.128	26.330	170.5	0.250	90.0	0.18
130	8.057	33.848	8.044	26.362	167.6	0.266	90.1	0.16
140	7.934	33.878	7.920	26.405	163.7	0.283	90.2	0.17
150	7.825	33.897	7.810	26.436	160.9	0.299	90.1	0.16
175	7.515	33.943	7.498	26.517	153.6	0.339	90.2	0.15
200	7.132	33.974	7.113	26.595	146.4	0.376	90.3	0.15
225	6.806	33.999	6.786	26.660	140.6	0.412	90.4	0.15
250	6.589	34.011	6.567	26.698	137.2	0.446	90.5	0.14
300	6.222	34.038	6.196	26.767	131.1	0.513	90.6	0.14
400	5.473	34.100	5.440	26.910	118.3	0.638	90.7	0.14
500	5.129	34.179	5.089	27.014	109.4	0.753	90.8	0.14
501	5.127	34.180	5.087	27.015	109.3	0.754	90.9	0.14



STA NO 45 LAT: 40 0.0 N LONG: 125 49.9 W
23 MAY 1987 0210 GMT PROBE 2561 DEPTH 3664M

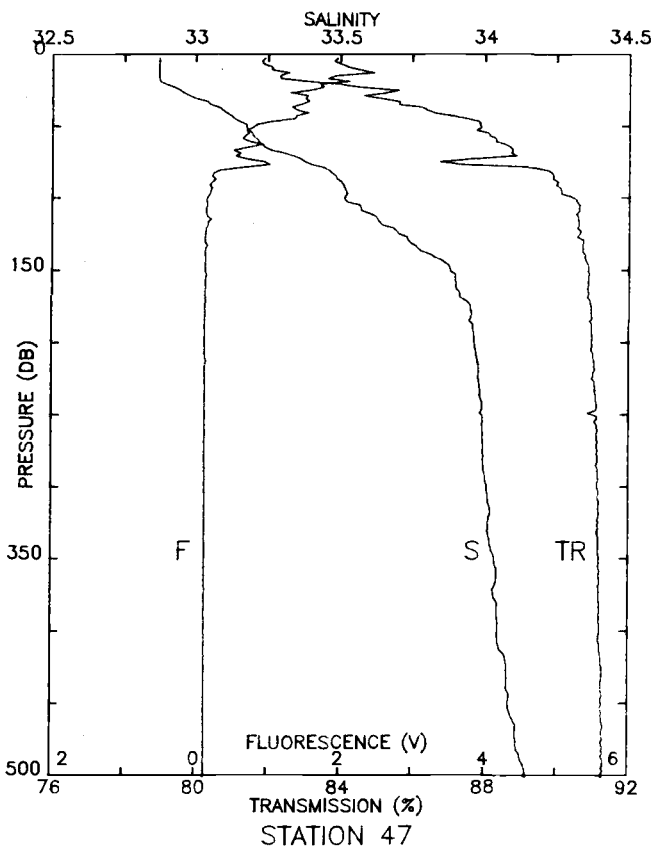
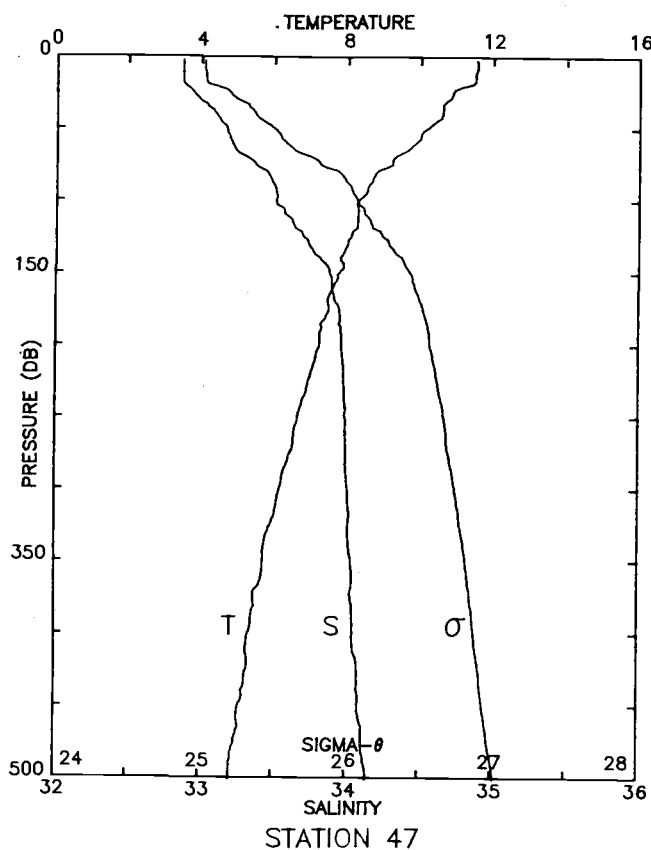
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.864	33.193	10.864	25.393	257.4	0.003	80.7	2.77
10	10.816	33.181	10.815	25.393	257.6	0.026	80.7	2.43
20	10.782	33.177	10.779	25.395	257.6	0.051	80.7	3.09
30	10.286	33.143	10.282	25.455	252.1	0.077	81.0	2.80
40	10.136	33.192	10.131	25.519	246.3	0.102	80.3	3.16
50	9.979	33.279	9.973	25.613	237.5	0.126	81.9	2.69
60	9.856	33.336	9.850	25.678	231.5	0.150	80.4	3.09
70	9.801	33.359	9.793	25.706	229.1	0.173	81.3	3.01
80	9.620	33.405	9.611	25.772	223.0	0.195	82.6	2.21
90	8.697	33.598	8.688	26.069	194.8	0.216	89.3	0.52
100	8.128	33.675	8.118	26.216	180.9	0.235	90.3	0.19
110	8.002	33.766	7.991	26.306	172.6	0.253	90.4	0.18
120	7.894	33.817	7.882	26.362	167.4	0.270	90.2	0.16
130	7.683	33.855	7.670	26.423	161.7	0.286	90.4	0.16
140	7.537	33.891	7.523	26.472	157.2	0.302	90.5	0.15
150	7.456	33.900	7.442	26.491	155.6	0.318	90.6	0.15
175	7.305	33.961	7.289	26.560	149.4	0.356	89.9	0.16
200	7.108	33.977	7.090	26.601	145.9	0.393	89.9	0.15
225	6.889	34.004	6.869	26.652	141.3	0.429	90.3	0.15
250	6.608	34.019	6.585	26.702	136.8	0.463	90.4	0.15
300	6.151	34.037	6.125	26.776	130.2	0.530	90.6	0.15
400	5.597	34.101	5.564	26.896	119.8	0.655	90.8	0.15
500	5.010	34.173	4.970	27.023	108.4	0.768	90.9	0.17
501	5.008	34.173	4.968	27.024	108.4	0.769	91.0	0.18



STA NO 46 LAT: 40 0.0 N LONG:126 0.1 W
 23 MAY 1987 0338 GMT PROBE 2561 DEPTH 3780M

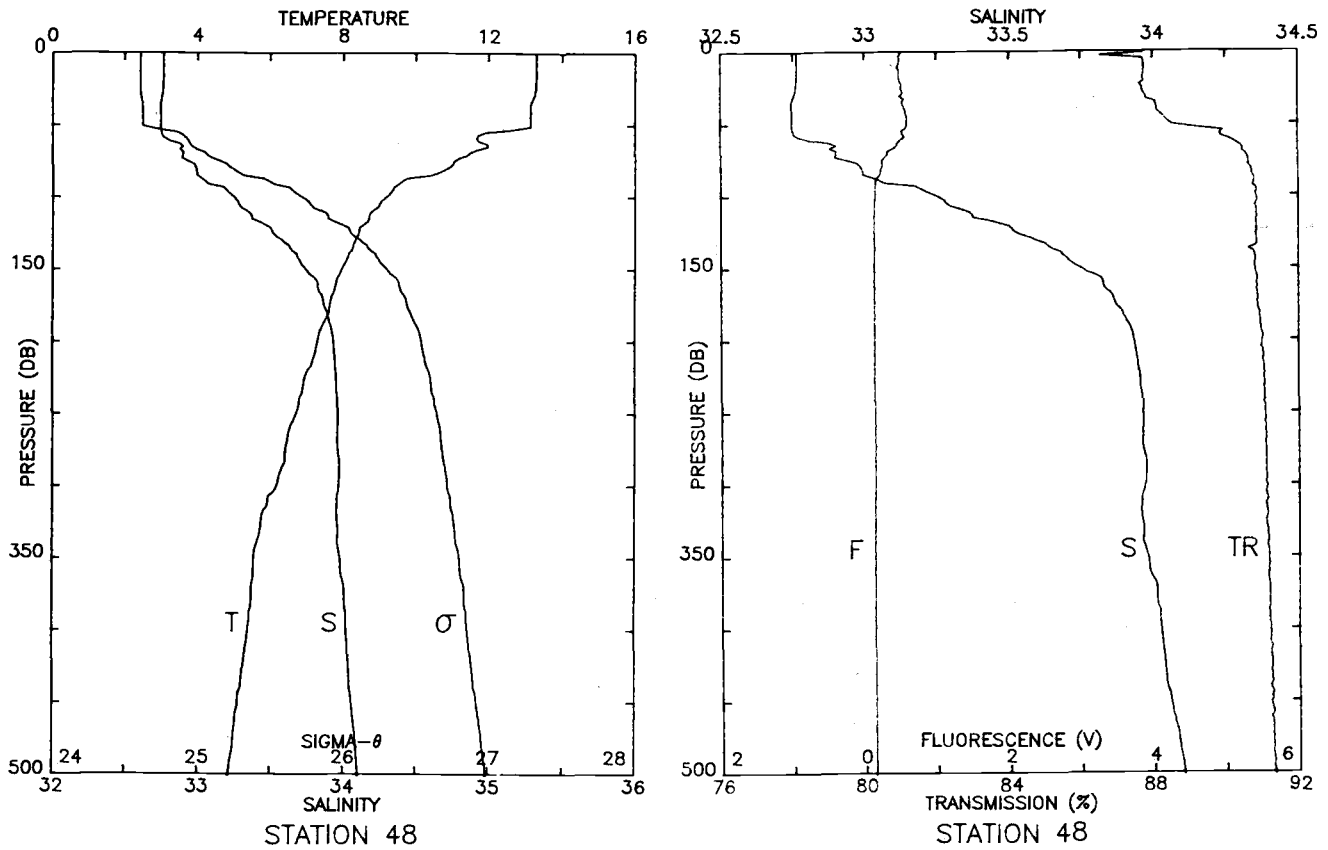
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.316	32.571	12.316	24.644	328.7	0.003	79.5	1.25
10	12.167	32.611	12.165	24.704	323.2	0.033	85.6	1.61
20	11.723	32.680	11.720	24.840	310.5	0.064	86.0	1.58
30	11.246	32.759	11.242	24.988	296.6	0.094	86.9	1.45
40	11.035	32.840	11.030	25.089	287.2	0.124	87.4	1.05
50	10.950	32.892	10.944	25.145	282.1	0.152	87.3	0.81
60	10.859	32.926	10.852	25.187	278.3	0.180	86.8	1.51
70	10.695	32.943	10.686	25.230	274.4	0.208	86.6	1.45
80	9.036	33.032	9.027	25.573	241.7	0.233	90.0	0.24
90	8.616	33.132	8.607	25.717	228.3	0.257	90.3	0.21
100	8.588	33.458	8.578	25.977	203.8	0.279	90.4	0.15
110	8.407	33.539	8.395	26.068	195.3	0.298	90.5	0.14
120	8.174	33.657	8.162	26.195	183.3	0.317	90.7	0.16
130	8.017	33.733	8.004	26.278	175.6	0.335	90.6	0.15
140	7.913	33.780	7.900	26.330	170.8	0.353	90.7	0.14
150	7.757	33.836	7.742	26.397	164.5	0.369	90.7	0.14
175	7.442	33.906	7.425	26.498	155.3	0.409	90.9	0.13
200	7.141	33.940	7.122	26.567	149.1	0.447	90.9	0.13
225	6.765	33.958	6.744	26.633	143.1	0.484	91.0	0.13
250	6.517	33.964	6.495	26.671	139.7	0.519	91.1	0.13
300	5.899	33.973	5.874	26.757	131.9	0.587	91.2	0.14
400	5.237	34.042	5.205	26.892	119.8	0.713	91.3	0.13
500	4.743	34.131	4.705	27.020	108.4	0.828	91.4	0.13
501	4.739	34.133	4.701	27.022	108.2	0.829	91.4	0.13

7 MIN GAP AT 105 DB



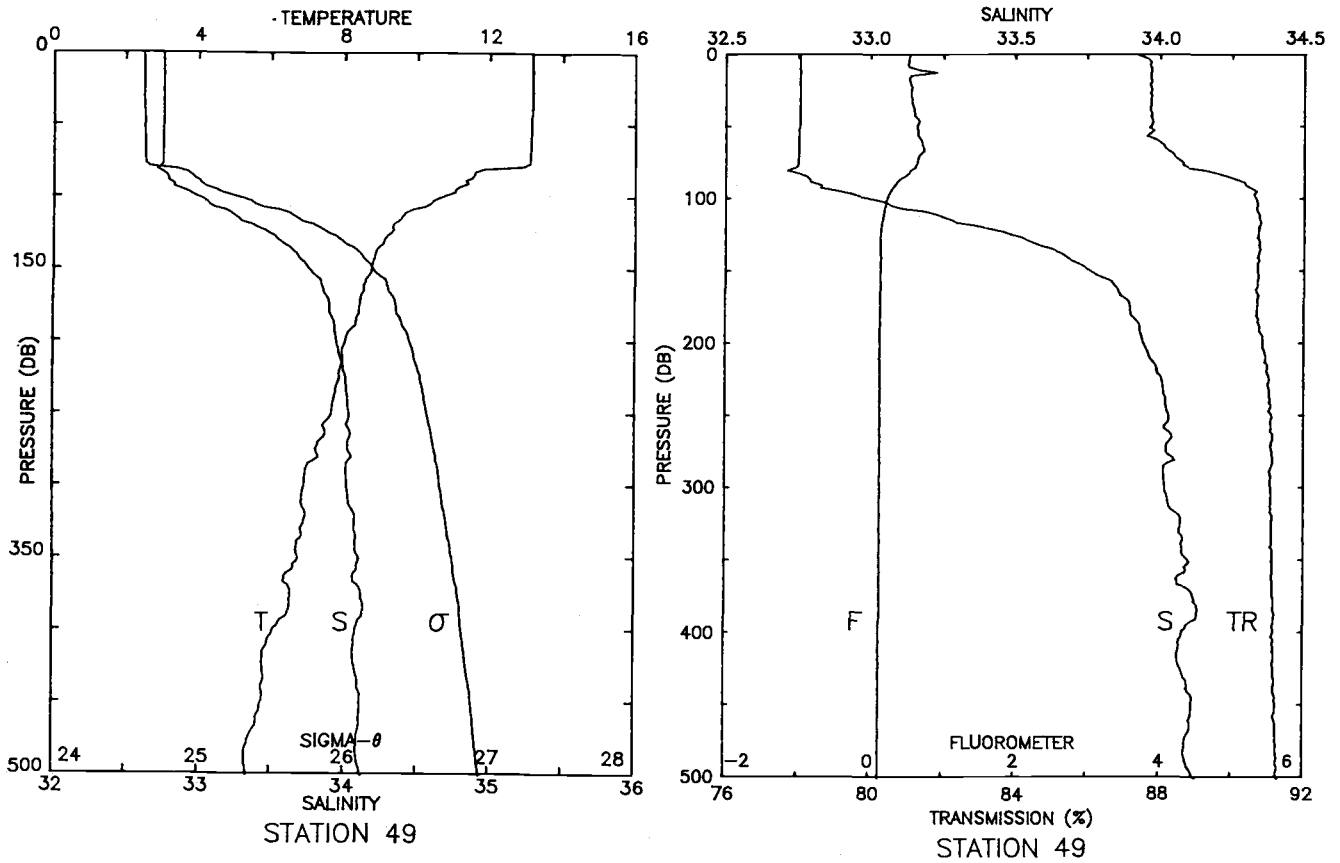
STA NO 47 LAT: 40 0.0 N LONG: 126 10.0 W
23 MAY 1987 0514 GMT PROBE 2561 DEPTH 4066M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.548	32.872	11.547	25.021	292.9	0.009	81.9	1.95
10	11.529	32.870	11.528	25.023	292.8	0.029	82.1	2.19
20	11.268	32.885	11.265	25.082	287.4	0.058	83.5	1.92
30	10.753	32.989	10.749	25.254	271.2	0.086	84.9	1.53
40	10.583	33.101	10.578	25.371	260.3	0.113	86.5	1.47
50	10.165	33.176	10.159	25.502	248.1	0.138	87.9	0.82
60	9.851	33.215	9.844	25.585	240.4	0.163	88.3	0.70
70	9.271	33.320	9.264	25.761	223.8	0.186	88.8	0.59
80	8.787	33.452	8.779	25.941	206.8	0.208	89.6	0.48
90	8.556	33.508	8.547	26.020	199.4	0.228	90.0	0.21
100	8.284	33.516	8.274	26.068	195.0	0.248	90.5	0.16
110	8.281	33.588	8.269	26.125	189.8	0.267	90.6	0.15
120	8.195	33.665	8.183	26.199	183.0	0.286	90.6	0.16
130	8.002	33.739	7.989	26.286	174.8	0.303	90.7	0.13
140	7.816	33.820	7.802	26.377	166.4	0.320	90.8	0.13
150	7.762	33.883	7.747	26.433	161.1	0.337	90.9	0.13
175	7.513	33.951	7.497	26.523	153.0	0.376	91.0	0.14
200	7.252	33.966	7.233	26.572	148.7	0.414	91.0	0.13
225	6.950	33.980	6.929	26.625	143.9	0.450	91.0	0.13
250	6.665	33.989	6.643	26.671	139.8	0.486	91.0	0.13
300	6.178	34.009	6.152	26.751	132.6	0.554	91.1	0.13
400	5.345	34.049	5.313	26.885	120.6	0.680	91.2	0.13
500	4.844	34.147	4.805	27.021	108.4	0.795	91.3	0.14
501	4.843	34.147	4.804	27.022	108.4	0.796	91.3	0.13



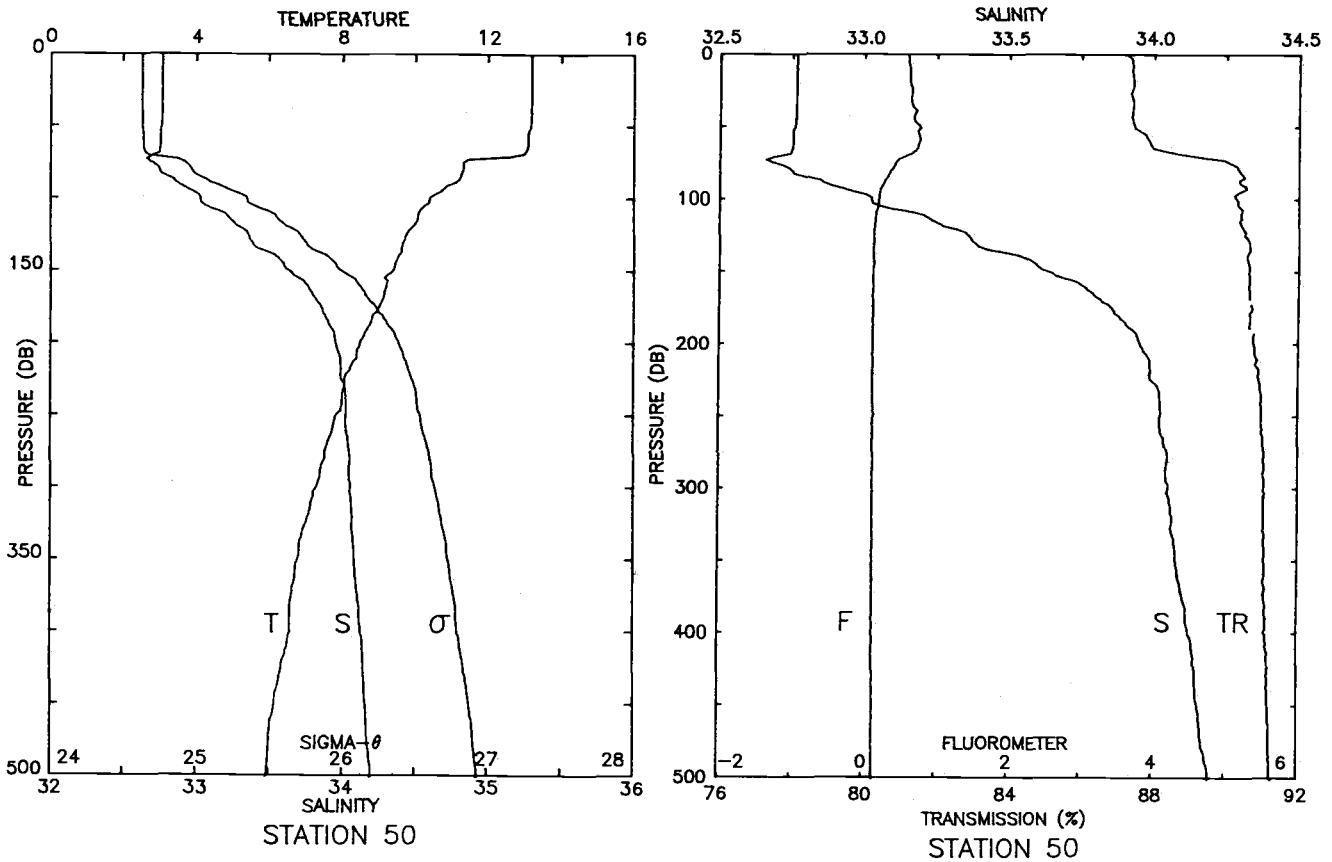
STA NO 48 LAT: 39 52.9 N LONG: 126 5.4 W
 23 MAY 1987 0631 GMT PROBE 2561 DEPTH 3789M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	13.284	32.763	13.284	24.605	332.4	0.003	87.7	0.51
10	13.287	32.763	13.286	24.605	332.7	0.033	87.8	0.47
20	13.284	32.762	13.281	24.605	332.9	0.067	87.7	0.49
30	13.225	32.754	13.221	24.610	332.7	0.100	87.8	0.52
40	13.131	32.745	13.125	24.622	331.8	0.133	88.1	0.57
50	13.124	32.746	13.118	24.624	331.8	0.166	88.5	0.60
60	11.694	32.788	11.687	24.930	302.8	0.198	90.0	0.54
70	11.457	32.901	11.448	25.062	290.5	0.227	90.5	0.32
80	10.859	32.988	10.849	25.236	274.1	0.256	90.7	0.24
90	9.573	33.062	9.563	25.511	247.9	0.282	90.8	0.16
100	9.173	33.251	9.162	25.723	227.9	0.306	90.8	0.15
110	8.772	33.347	8.761	25.862	214.9	0.328	90.9	0.14
120	8.493	33.483	8.481	26.011	200.8	0.349	90.9	0.13
130	8.315	33.585	8.302	26.118	190.9	0.368	90.9	0.13
140	8.128	33.684	8.114	26.224	180.9	0.387	90.8	0.14
150	7.943	33.748	7.928	26.301	173.7	0.405	90.8	0.13
175	7.626	33.870	7.609	26.443	160.6	0.446	90.9	0.14
200	7.292	33.933	7.274	26.541	151.6	0.485	91.0	0.14
225	6.950	33.953	6.929	26.604	145.9	0.522	91.0	0.14
250	6.700	33.963	6.677	26.645	142.2	0.558	91.1	0.14
300	6.172	33.969	6.146	26.720	135.6	0.628	91.1	0.14
400	5.392	34.025	5.360	26.861	122.9	0.756	91.2	0.14
500	4.862	34.103	4.823	26.985	111.8	0.874	91.3	0.14
501	4.858	34.104	4.819	26.985	111.8	0.875	91.3	0.14



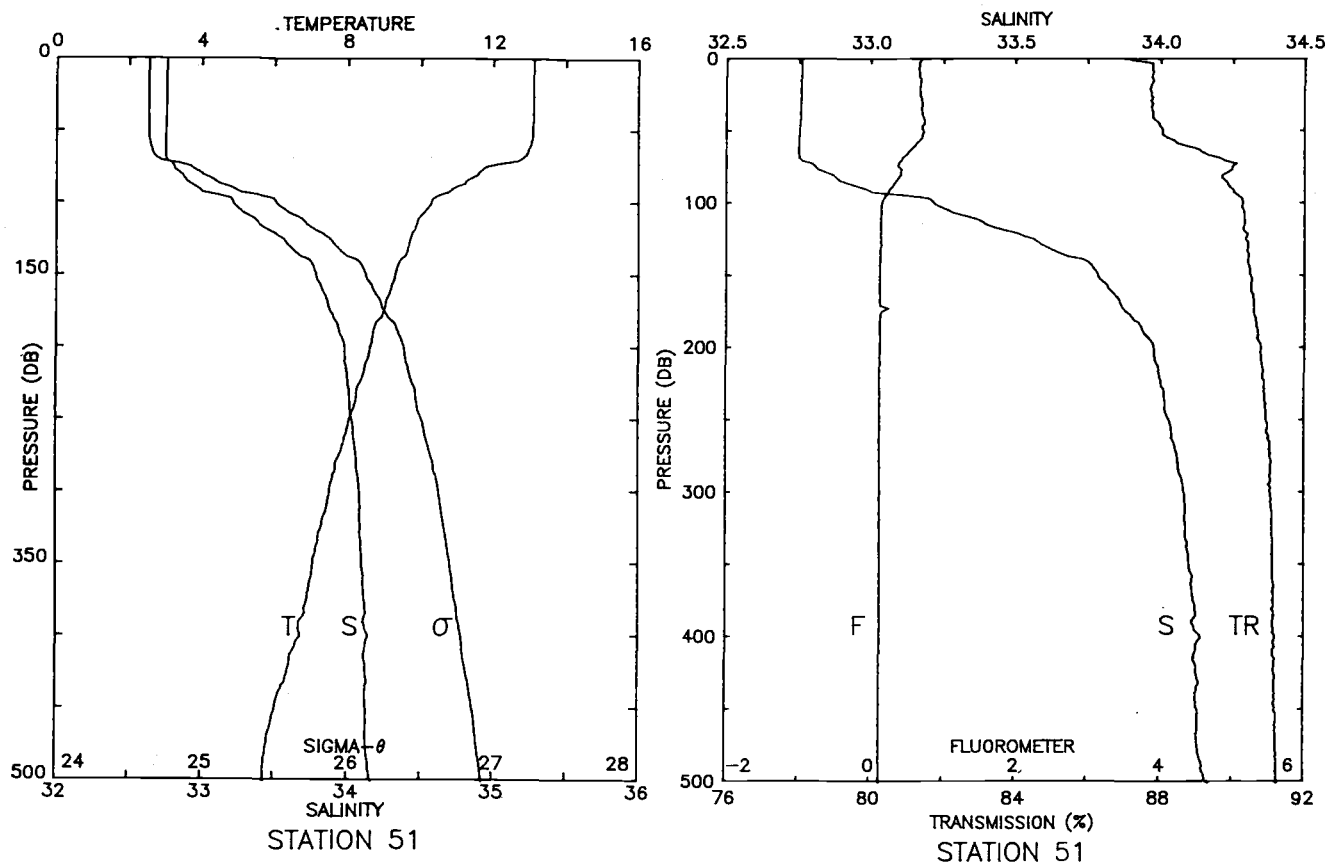
STA NO 49 LAT: 39 45.9 N LONG: 126 0.5 W
 23 MAY 1987 0739 GMT PROBE 2561 DEPTH 3675M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.161	32.755	13.161	24.623	330.7	0.003	87.4	0.53
10	13.165	32.756	13.164	24.623	330.9	0.033	87.8	0.60
20	13.167	32.756	13.164	24.623	331.2	0.066	87.8	0.54
30	13.173	32.756	13.169	24.622	331.5	0.099	87.8	0.56
40	13.158	32.756	13.152	24.625	331.5	0.132	87.8	0.60
50	13.137	32.755	13.131	24.629	331.4	0.166	87.7	0.64
60	13.119	32.751	13.111	24.630	331.6	0.199	87.9	0.70
70	13.107	32.751	13.097	24.632	331.6	0.232	88.4	0.67
80	12.365	32.726	12.354	24.755	320.0	0.265	89.1	0.57
90	11.367	32.813	11.356	25.010	295.9	0.295	90.4	0.35
100	10.696	32.989	10.684	25.266	271.7	0.324	90.7	0.23
110	9.765	33.204	9.752	25.591	240.8	0.350	90.7	0.18
120	9.315	33.388	9.303	25.808	220.3	0.373	90.8	0.15
130	9.072	33.555	9.059	25.978	204.3	0.394	84.2	0.14
140	8.819	33.677	8.804	26.113	191.6	0.414	84.2	0.14
150	8.725	33.759	8.709	26.192	184.3	0.433	86.8	0.14
175	8.405	33.899	8.387	26.352	169.6	0.476	90.7	0.14
200	8.018	33.945	7.998	26.446	160.9	0.518	90.9	0.14
225	7.860	34.009	7.838	26.520	154.3	0.557	91.0	0.14
250	7.646	34.033	7.621	26.570	149.9	0.595	91.1	0.14
300	6.918	34.018	6.891	26.660	141.7	0.668	91.1	0.14
400	6.089	34.081	6.054	26.820	127.4	0.802	91.2	0.13
500	5.370	34.121	5.329	26.940	116.7	0.924	91.3	0.13
501	5.382	34.126	5.341	26.943	116.4	0.925	91.3	0.13



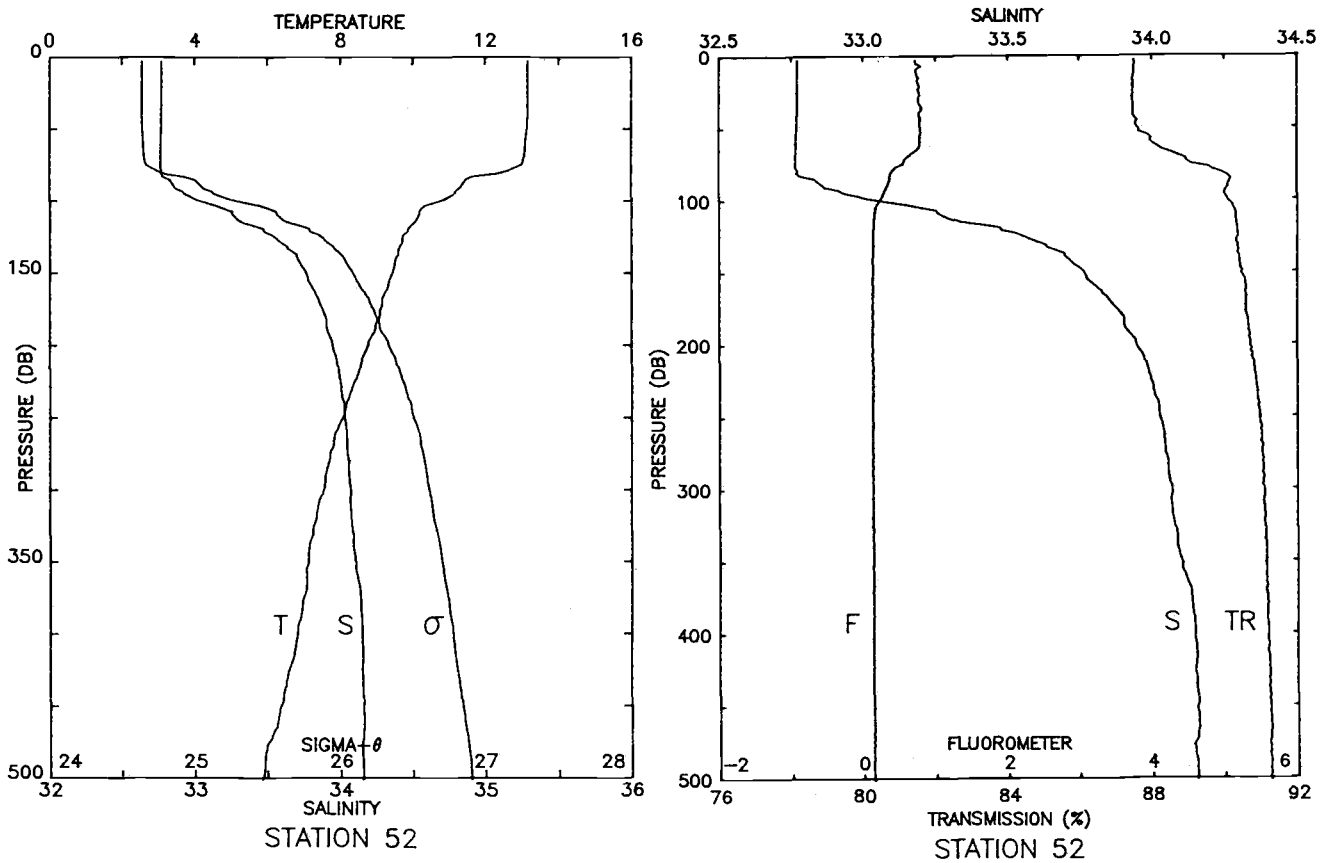
STA NO 50 LAT: 39 39.3 N LONG: 125 56.2 W
 23 MAY 1987 0848 GMT PROBE 2561 DEPTH 3771M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.182	32.764	13.182	24.626	330.4	0.003	87.3	0.61
10	13.182	32.763	13.181	24.625	330.7	0.033	87.4	0.63
20	13.181	32.763	13.179	24.626	330.9	0.066	87.4	0.63
30	13.186	32.763	13.182	24.625	331.3	0.099	87.4	0.64
40	13.180	32.763	13.175	24.626	331.4	0.132	87.3	0.72
50	13.154	32.758	13.147	24.628	331.5	0.166	87.5	0.77
60	13.082	32.752	13.074	24.638	330.8	0.199	87.9	0.77
70	12.769	32.716	12.759	24.672	327.8	0.232	89.0	0.60
80	11.308	32.746	11.298	24.968	299.6	0.262	90.4	0.39
90	10.996	32.877	10.986	25.126	284.8	0.292	90.5	0.27
100	10.391	33.028	10.379	25.349	263.7	0.319	90.3	0.21
110	10.084	33.183	10.071	25.522	247.5	0.345	84.0	0.17
120	9.905	33.298	9.892	25.642	236.2	0.369	90.5	0.15
130	9.655	33.379	9.641	25.746	226.5	0.392	82.5	0.14
140	9.513	33.547	9.497	25.901	211.9	0.414	90.3	0.14
150	9.362	33.636	9.346	25.996	203.2	0.435	90.6	0.14
175	8.997	33.857	8.979	26.227	181.6	0.483	73.7	0.13
200	8.475	33.956	8.455	26.385	166.9	0.526	75.7	0.13
225	8.046	33.992	8.024	26.479	158.3	0.567	90.9	0.13
250	7.832	34.026	7.807	26.538	153.1	0.606	91.0	0.15
300	7.285	34.054	7.257	26.639	144.0	0.680	91.1	0.14
400	6.575	34.128	6.538	26.794	130.3	0.816	91.1	0.14
500	5.946	34.196	5.903	26.930	118.3	0.939	91.3	0.15
501	5.939	34.196	5.896	26.930	118.3	0.940	91.3	0.15



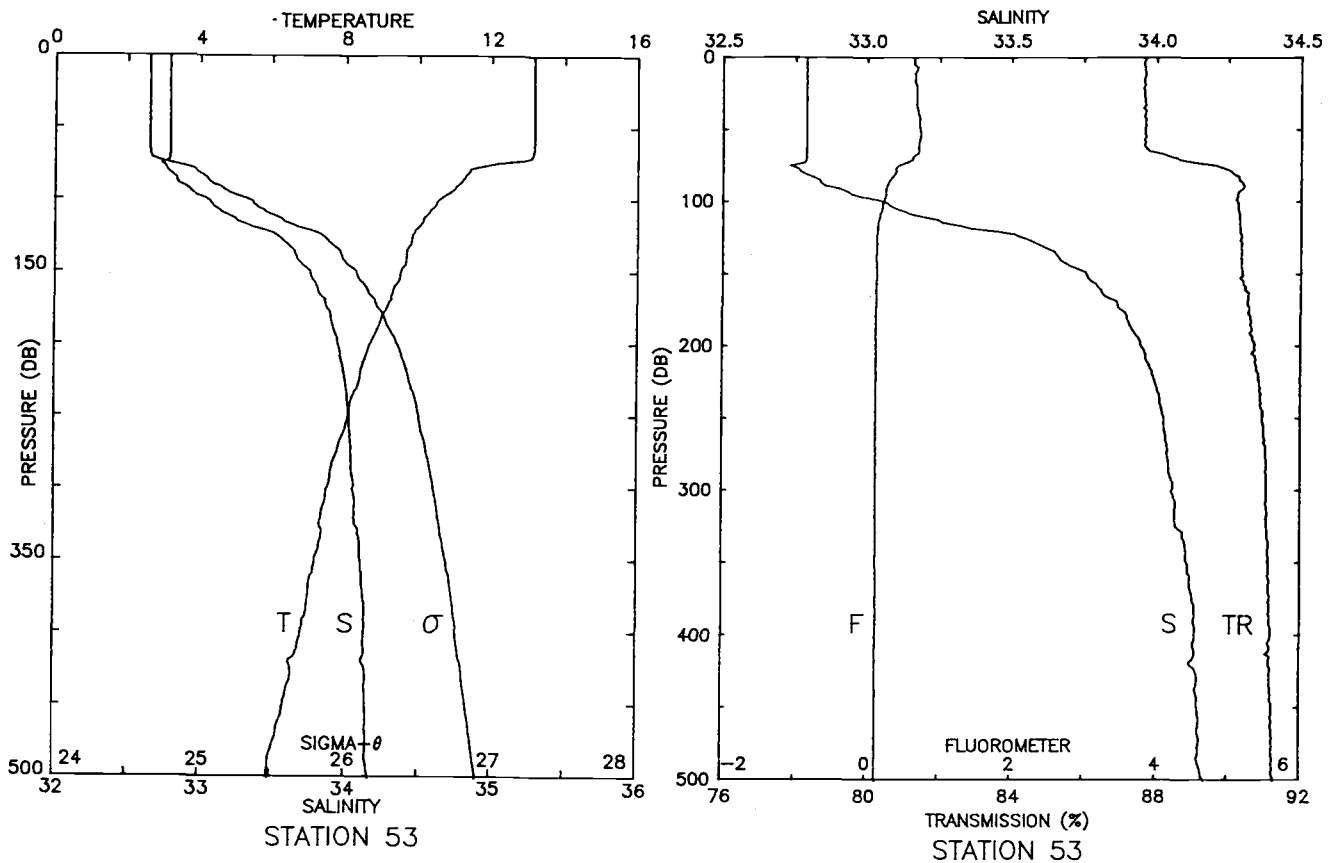
STA NO 51 LAT: 39 32.1 N LONG: 125 51.5 W
 23 MAY 1987 0958 GMT PROBE 2561 DEPTH 3808M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.105	32.758	13.105	24.636	329.4	0.003	87.2	0.69
10	13.108	32.758	13.107	24.636	329.7	0.033	87.8	0.66
20	13.110	32.758	13.107	24.636	329.9	0.066	87.7	0.68
30	13.113	32.758	13.109	24.636	330.2	0.099	87.8	0.71
40	13.109	32.757	13.104	24.636	330.5	0.132	87.8	0.72
50	13.085	32.753	13.078	24.638	330.5	0.165	88.1	0.72
60	13.023	32.751	13.015	24.649	329.8	0.198	88.6	0.62
70	12.742	32.758	12.732	24.709	324.2	0.231	89.7	0.43
80	11.591	32.856	11.581	25.003	296.4	0.262	89.8	0.42
90	10.922	32.972	10.911	25.213	276.6	0.290	90.0	0.28
100	10.289	33.219	10.277	25.515	248.0	0.316	90.3	0.16
110	9.968	33.345	9.956	25.667	233.6	0.341	90.3	0.15
120	9.794	33.486	9.781	25.807	220.6	0.363	85.8	0.15
130	9.657	33.605	9.643	25.922	209.8	0.385	90.4	0.15
140	9.425	33.745	9.410	26.070	195.9	0.405	90.4	0.14
150	9.291	33.788	9.275	26.125	190.8	0.424	74.1	0.13
175	8.971	33.883	8.952	26.251	179.3	0.471	90.6	0.16
200	8.609	33.978	8.588	26.383	167.2	0.514	90.8	0.13
225	8.344	34.005	8.321	26.445	161.7	0.555	90.9	0.13
250	8.062	34.031	8.037	26.508	156.0	0.595	91.0	0.14
300	7.522	34.084	7.493	26.629	145.1	0.670	91.1	0.14
400	6.721	34.140	6.684	26.784	131.4	0.808	91.2	0.14
500	5.736	34.163	5.694	26.929	118.1	0.933	91.3	0.14
501	5.746	34.168	5.704	26.933	117.8	0.934	91.3	0.14



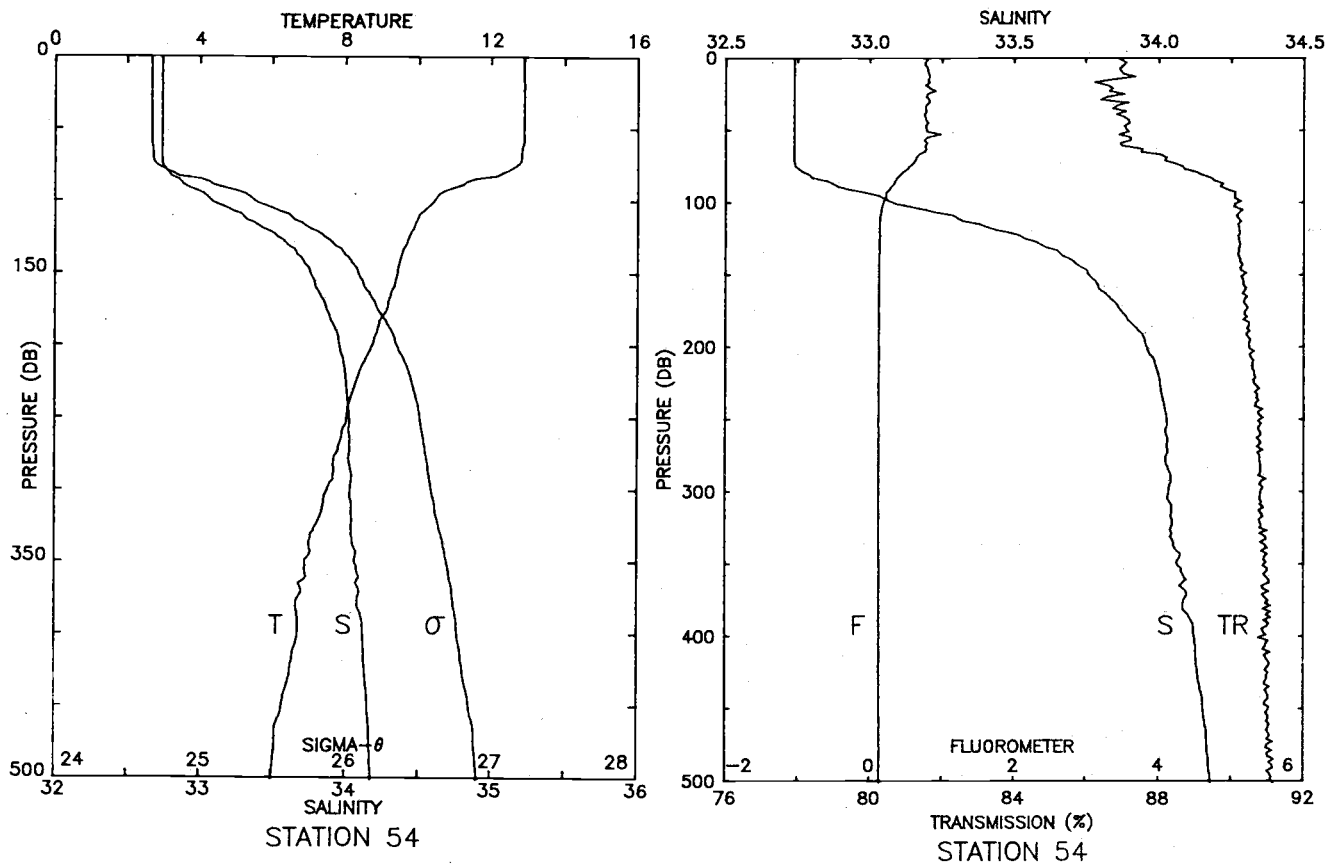
STA NO 52 LAT: 39 25.0 N LONG: 125 46.8 W
 23 MAY 1987 1107 GMT PROBE 2561 DEPTH 3775M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	13.147	32.770	13.147	24.638	329.3	0.010	87.5	0.72
10	13.148	32.770	13.147	24.638	329.5	0.033	87.5	0.73
20	13.149	32.770	13.147	24.638	329.8	0.066	87.5	0.77
30	13.151	32.771	13.147	24.638	330.0	0.099	87.5	0.77
40	13.152	32.771	13.147	24.638	330.3	0.132	87.5	0.78
50	13.128	32.768	13.121	24.641	330.2	0.165	87.6	0.79
60	13.090	32.766	13.082	24.647	329.9	0.198	88.0	0.79
70	13.043	32.765	13.033	24.656	329.3	0.231	88.8	0.62
80	12.447	32.771	12.437	24.777	318.0	0.264	89.8	0.40
90	11.339	32.861	11.328	25.053	291.9	0.294	90.1	0.34
100	10.747	33.046	10.735	25.301	268.3	0.322	90.1	0.23
110	10.152	33.269	10.140	25.577	242.2	0.347	89.9	0.16
120	9.858	33.475	9.845	25.788	222.4	0.370	90.4	0.15
130	9.663	33.618	9.649	25.932	208.9	0.392	84.5	0.14
140	9.507	33.708	9.491	26.028	199.9	0.412	84.0	0.14
150	9.420	33.767	9.404	26.088	194.4	0.432	80.5	0.14
175	9.087	33.879	9.068	26.230	181.4	0.479	72.9	0.13
200	8.752	33.947	8.731	26.336	171.7	0.523	90.0	0.13
225	8.373	33.997	8.350	26.434	162.7	0.565	90.9	0.13
250	8.052	34.028	8.027	26.507	156.1	0.605	91.0	0.13
300	7.533	34.070	7.504	26.616	146.3	0.680	91.1	0.14
400	6.811	34.148	6.774	26.778	132.1	0.818	91.2	0.14
500	5.868	34.155	5.825	26.907	120.4	0.944	91.3	0.14
501	5.855	34.154	5.812	26.908	120.3	0.946	91.3	0.14



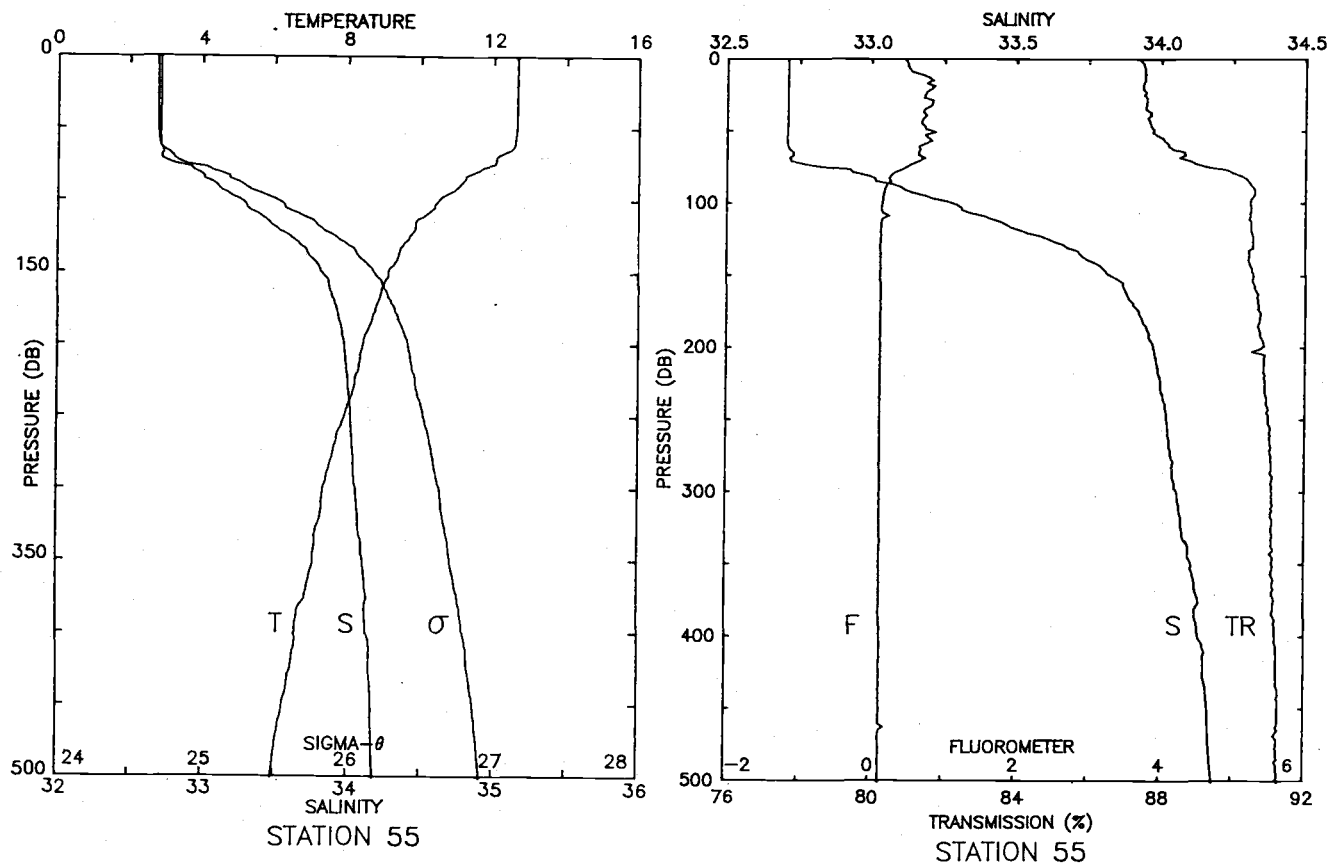
STA NO 53 LAT: 39 17.9 N LONG: 125 41.9 W
 23 MAY 1987 1225 GMT PROBE 2561 DEPTH 3689M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.159	32.788	13.159	24.649	328.2	0.003	87.7	0.65
10	13.158	32.788	13.156	24.649	328.4	0.033	87.7	0.67
20	13.159	32.788	13.156	24.649	328.7	0.066	87.7	0.68
30	13.162	32.788	13.158	24.649	329.0	0.099	87.7	0.69
40	13.165	32.788	13.160	24.649	329.3	0.131	87.7	0.71
50	13.166	32.788	13.159	24.649	329.5	0.164	87.7	0.73
60	13.165	32.788	13.157	24.649	329.7	0.197	87.7	0.71
70	13.099	32.787	13.090	24.662	328.8	0.230	88.5	0.63
80	11.397	32.777	11.388	24.976	298.9	0.262	90.1	0.39
90	11.064	32.878	11.053	25.114	285.9	0.291	90.4	0.27
100	10.546	33.054	10.534	25.343	264.4	0.319	90.2	0.23
110	10.233	33.175	10.221	25.490	250.5	0.345	90.3	0.18
120	9.939	33.405	9.926	25.720	228.9	0.369	90.3	0.15
130	9.770	33.596	9.756	25.897	212.2	0.390	90.2	0.14
140	9.643	33.669	9.627	25.975	205.0	0.411	85.6	0.13
150	9.487	33.759	9.471	26.071	196.1	0.431	84.6	0.14
175	9.120	33.878	9.101	26.224	182.0	0.479	90.6	0.14
200	8.660	33.949	8.639	26.352	170.1	0.522	90.7	0.13
225	8.378	33.998	8.355	26.434	162.7	0.564	90.9	0.13
250	8.079	34.028	8.054	26.503	156.5	0.604	91.0	0.14
300	7.529	34.058	7.500	26.607	147.2	0.680	91.1	0.13
400	6.831	34.137	6.794	26.767	133.1	0.819	91.2	0.14
500	5.941	34.169	5.898	26.909	120.2	0.946	91.3	0.14
501	5.949	34.171	5.906	26.910	120.2	0.947	91.3	0.14



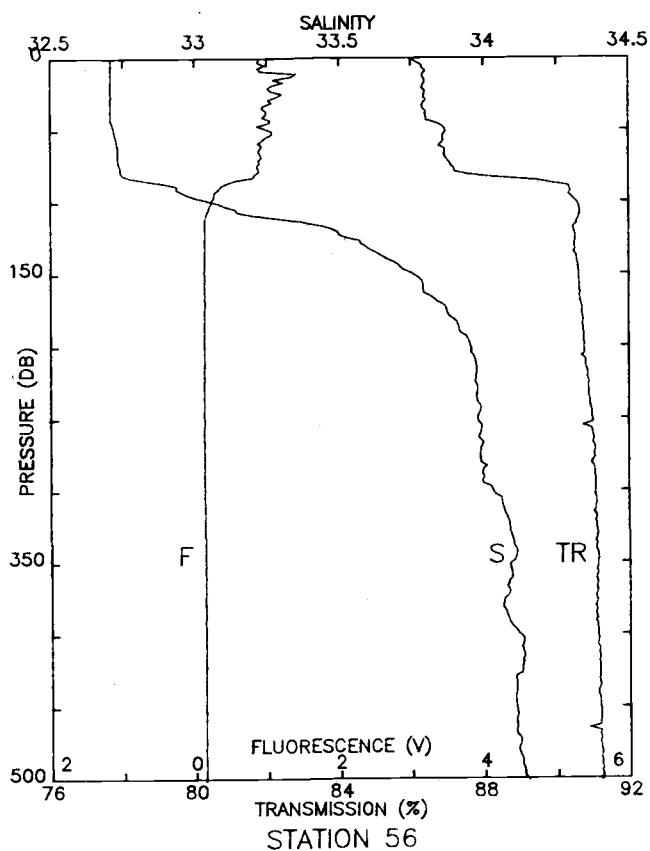
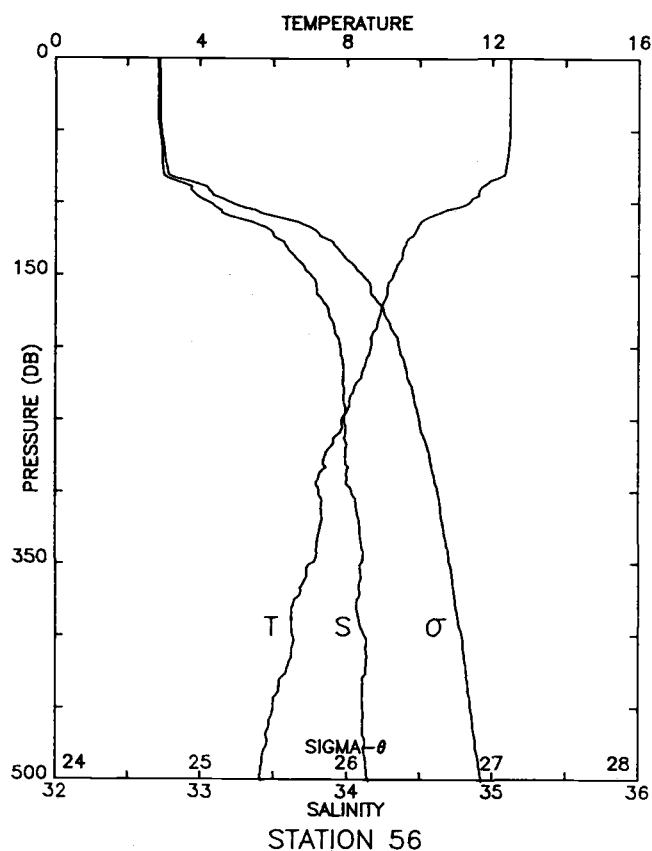
STA NO 54 LAT: 39 11.0 N LONG: 125 37.4 W
 23 MAY 1987 1337 GMT PROBE 2561 DEPTH 3615M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.870	32.738	12.870	24.667	326.5	0.003	86.9	0.80
10	12.873	32.738	12.872	24.667	326.7	0.033	87.0	0.81
20	12.880	32.738	12.877	24.666	327.1	0.065	86.7	0.80
30	12.880	32.738	12.876	24.666	327.3	0.098	86.8	0.82
40	12.876	32.738	12.871	24.667	327.5	0.131	87.0	0.76
50	12.874	32.738	12.867	24.668	327.7	0.164	87.2	0.79
60	12.868	32.738	12.860	24.669	327.8	0.196	87.0	0.78
70	12.814	32.738	12.805	24.680	327.0	0.229	88.2	0.64
80	12.370	32.782	12.360	24.800	315.8	0.261	89.1	0.45
90	11.095	32.912	11.085	25.135	284.0	0.291	89.8	0.29
100	10.428	33.082	10.416	25.384	260.4	0.318	90.2	0.19
110	10.001	33.297	9.989	25.624	237.7	0.343	90.2	0.15
120	9.826	33.463	9.812	25.784	222.8	0.366	90.2	0.14
130	9.651	33.604	9.637	25.923	209.7	0.388	90.2	0.14
140	9.485	33.705	9.469	26.029	199.8	0.408	90.2	0.14
150	9.407	33.763	9.390	26.088	194.5	0.428	87.1	0.13
175	9.122	33.873	9.103	26.220	182.3	0.475	90.4	0.13
200	8.720	33.960	8.699	26.351	170.2	0.519	90.5	0.13
225	8.289	34.006	8.266	26.453	160.8	0.560	90.6	0.13
250	8.030	34.029	8.005	26.511	155.7	0.600	90.8	0.13
300	7.513	34.035	7.484	26.591	148.7	0.676	90.8	0.13
400	6.720	34.125	6.683	26.772	132.5	0.815	90.9	0.14
500	6.007	34.181	5.964	26.910	120.3	0.941	91.1	0.14
501	6.005	34.180	5.961	26.910	120.3	0.942	91.2	0.14



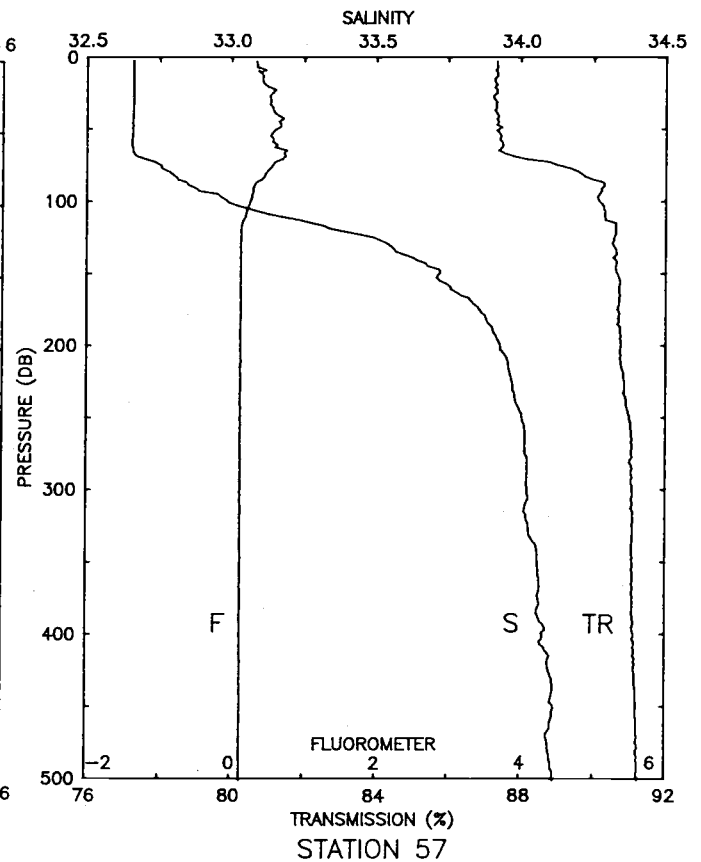
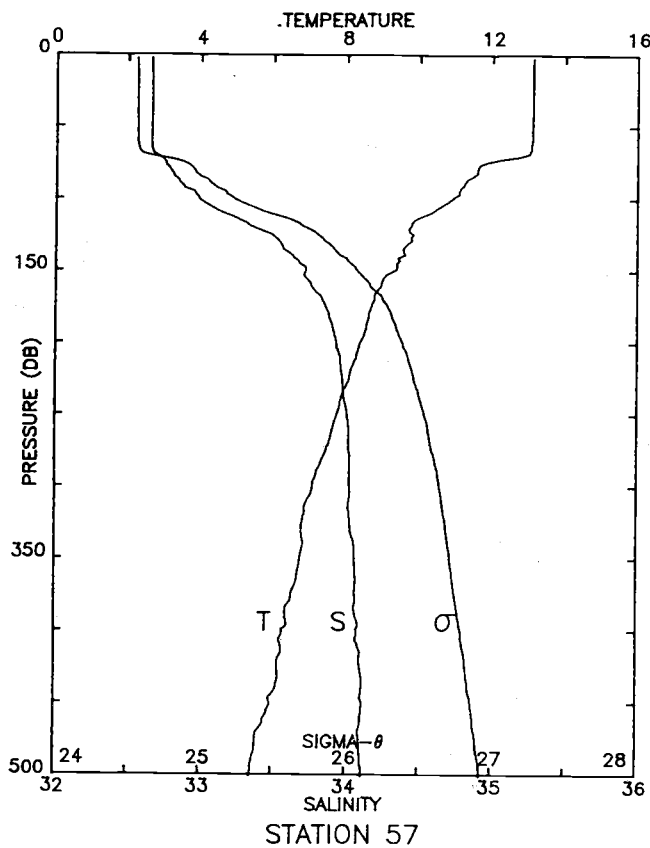
STA NO 55 LAT: 39 4.0 N LONG: 125 32.9 W
 23 MAY 1987 1501 GMT PROBE 2561 DEPTH 3674M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.644	32.709	12.644	24.688	324.5	0.003	87.4	0.46
10	12.642	32.709	12.641	24.689	324.6	0.032	87.6	0.62
20	12.640	32.709	12.638	24.689	324.8	0.065	87.5	0.85
30	12.640	32.709	12.636	24.690	325.1	0.097	87.6	0.84
40	12.633	32.708	12.628	24.691	325.2	0.130	87.7	0.74
50	12.621	32.708	12.615	24.693	325.3	0.162	87.8	0.82
60	12.578	32.708	12.570	24.702	324.6	0.195	88.2	0.69
70	12.081	32.717	12.073	24.803	315.2	0.227	88.7	0.70
80	11.507	32.962	11.498	25.100	287.2	0.257	90.1	0.29
90	11.027	33.108	11.017	25.300	268.3	0.285	90.6	0.19
100	10.476	33.275	10.465	25.527	246.9	0.311	90.5	0.16
110	10.127	33.400	10.114	25.684	232.1	0.335	90.5	0.20
120	9.830	33.528	9.817	25.834	218.0	0.357	90.5	0.14
130	9.533	33.672	9.519	25.995	202.8	0.378	90.6	0.13
140	9.360	33.758	9.345	26.090	194.0	0.398	90.5	0.13
150	9.111	33.827	9.095	26.185	185.1	0.417	90.6	0.13
175	8.749	33.925	8.731	26.319	172.8	0.462	90.8	0.13
200	8.406	33.976	8.385	26.412	164.3	0.504	90.8	0.13
225	8.198	34.001	8.175	26.463	159.8	0.544	90.9	0.13
250	7.917	34.022	7.892	26.522	154.6	0.584	91.0	0.13
300	7.336	34.059	7.307	26.635	144.4	0.658	91.1	0.13
400	6.590	34.134	6.553	26.797	130.1	0.796	91.2	0.14
500	5.958	34.185	5.915	26.919	119.3	0.920	91.3	0.14
501	5.955	34.185	5.912	26.920	119.3	0.921	91.3	0.14



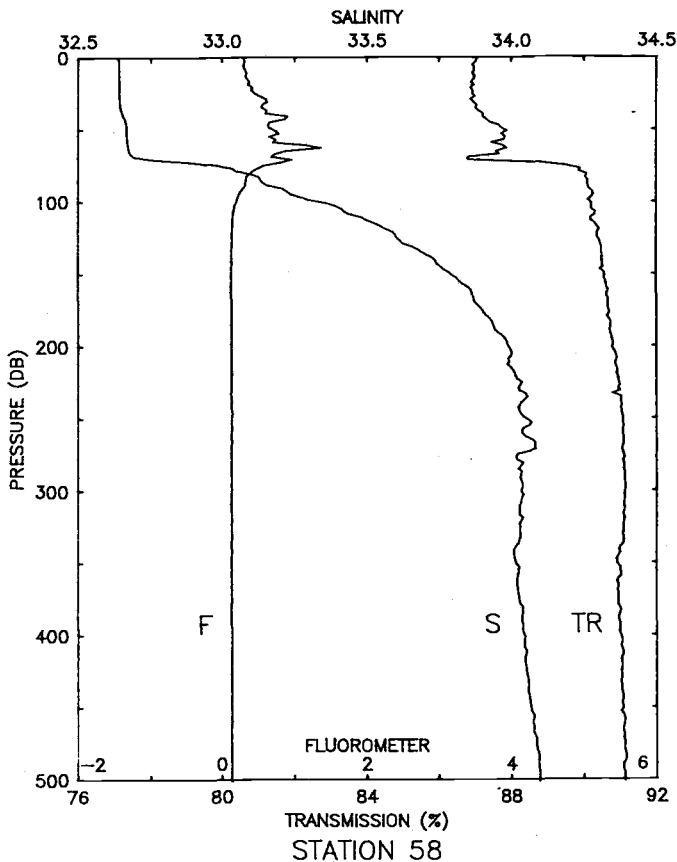
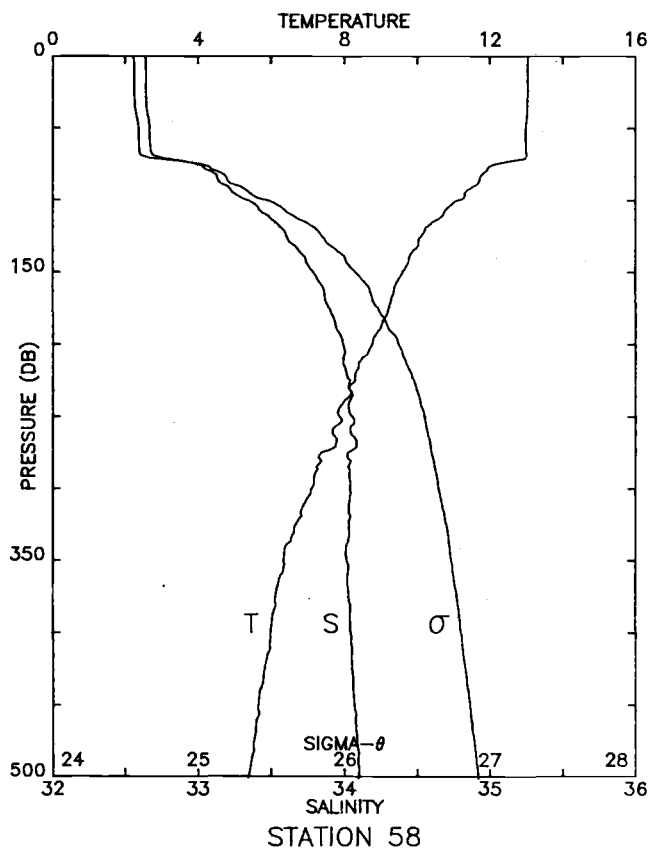
STA NO 56 LAT: 38 56.9 N LONG: 125 28.4 W
 23 MAY 1987 1648 GMT PROBE 2561 DEPTH 3709M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.477	32.707	12.477	24.719	321.5	0.003	86.0	0.89
10	12.474	32.707	12.472	24.720	321.7	0.032	86.4	1.16
20	12.475	32.707	12.472	24.720	322.0	0.064	86.3	1.04
30	12.475	32.707	12.471	24.720	322.2	0.097	86.4	1.04
40	12.477	32.707	12.472	24.720	322.4	0.129	86.4	0.96
50	12.478	32.719	12.472	24.729	321.8	0.161	87.0	1.03
60	12.441	32.731	12.433	24.746	320.4	0.193	86.8	0.91
70	12.397	32.734	12.388	24.757	319.6	0.225	87.0	0.91
80	12.328	32.746	12.318	24.779	317.7	0.257	87.4	0.86
90	11.671	32.938	11.660	25.052	292.0	0.287	90.4	0.35
100	11.337	33.066	11.325	25.212	276.9	0.316	90.5	0.23
110	10.240	33.229	10.228	25.531	246.6	0.342	90.6	0.15
120	9.871	33.486	9.857	25.794	221.8	0.366	90.5	0.14
130	9.577	33.585	9.563	25.920	210.0	0.387	90.5	0.14
140	9.449	33.672	9.434	26.009	201.7	0.408	90.6	0.14
150	9.258	33.757	9.242	26.107	192.6	0.427	90.6	0.13
175	8.912	33.874	8.894	26.254	179.1	0.474	90.7	0.13
200	8.640	33.955	8.620	26.360	169.4	0.517	90.8	0.13
225	8.235	33.970	8.212	26.433	162.7	0.559	90.9	0.13
250	7.850	33.979	7.826	26.498	156.8	0.599	91.0	0.13
300	7.243	34.031	7.214	26.626	145.2	0.674	91.1	0.14
400	6.527	34.120	6.491	26.795	130.3	0.812	91.1	0.14
500	5.642	34.146	5.600	26.927	118.2	0.937	91.2	0.14
501	5.659	34.150	5.617	26.929	118.1	0.938	91.2	0.14



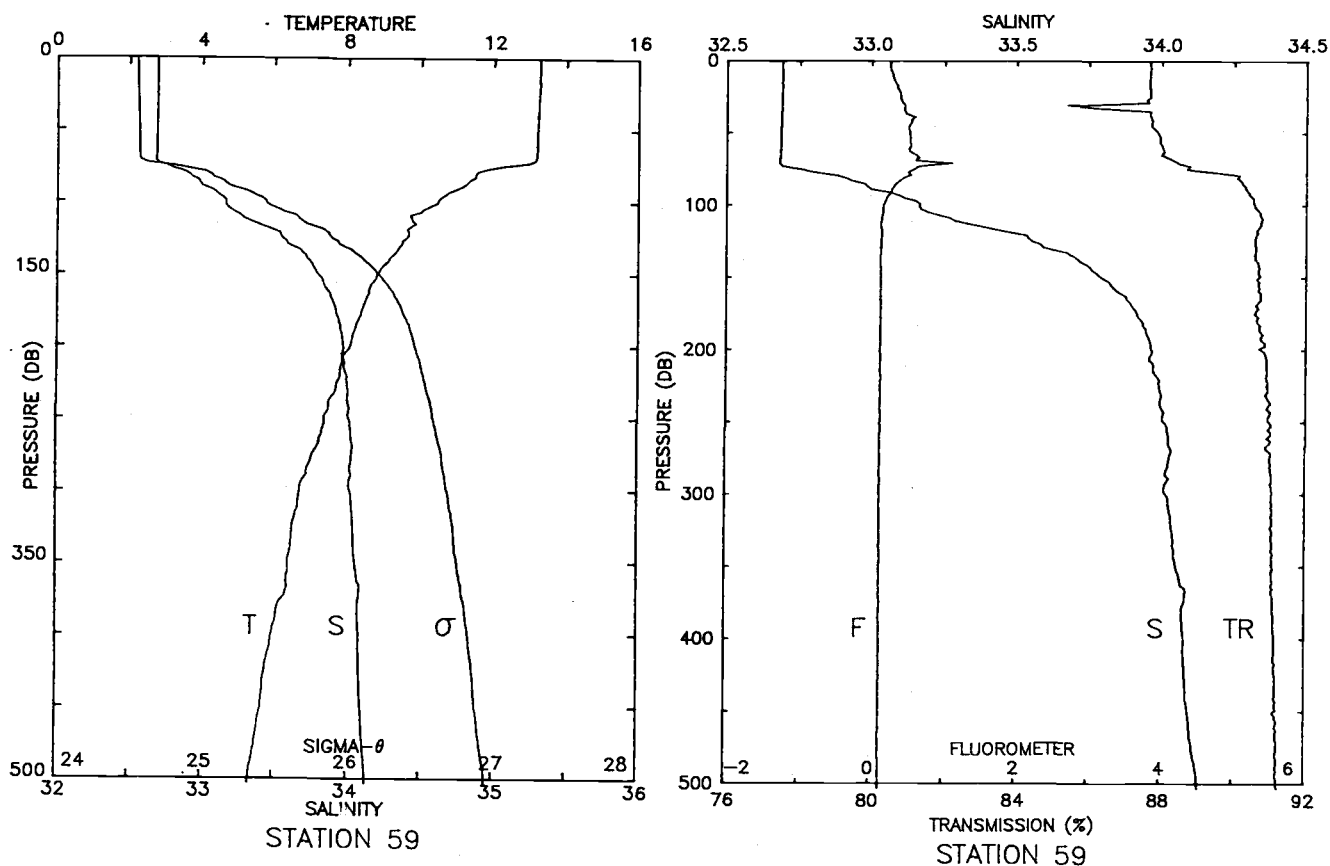
STA NO 57 LAT: 38 50.0 N LONG: 125 23.6 W
23 MAY 1987 1814 GMT PROBE 2561 DEPTH 3694M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	13.113	32.658	13.112	24.558	336.9	0.010	87.3	0.34
10	13.102	32.659	13.101	24.560	336.9	0.034	87.3	0.43
20	13.104	32.659	13.101	24.561	337.1	0.067	87.3	0.48
30	13.104	32.659	13.100	24.561	337.3	0.101	87.3	0.54
40	13.102	32.659	13.097	24.561	337.6	0.135	87.4	0.62
50	13.090	32.657	13.083	24.562	337.7	0.169	87.4	0.63
60	13.079	32.654	13.071	24.562	338.0	0.202	87.5	0.60
70	12.855	32.690	12.846	24.635	331.3	0.236	88.0	0.72
80	11.584	32.786	11.574	24.949	301.5	0.267	89.6	0.48
90	11.221	32.864	11.210	25.076	289.6	0.297	90.3	0.31
100	10.900	32.987	10.888	25.229	275.3	0.325	90.2	0.26
110	10.290	33.152	10.277	25.463	253.1	0.352	90.3	0.20
120	9.723	33.364	9.710	25.723	228.5	0.376	83.6	0.14
130	9.729	33.544	9.715	25.863	215.4	0.398	90.5	0.13
140	9.488	33.636	9.473	25.975	205.0	0.419	88.4	0.13
150	9.287	33.720	9.270	26.073	195.8	0.439	90.7	0.13
175	8.665	33.858	8.647	26.279	176.5	0.485	90.7	0.14
200	8.365	33.930	8.345	26.382	167.2	0.528	90.8	0.14
225	8.058	33.971	8.036	26.461	160.0	0.569	90.9	0.14
250	7.732	34.006	7.707	26.536	153.2	0.608	91.0	0.13
300	7.091	34.025	7.063	26.642	143.6	0.682	91.1	0.13
400	6.275	34.077	6.239	26.793	130.2	0.819	91.1	0.13
500	5.419	34.114	5.378	26.929	117.8	0.943	91.2	0.14
501	5.417	34.114	5.375	26.929	117.7	0.944	91.2	0.14



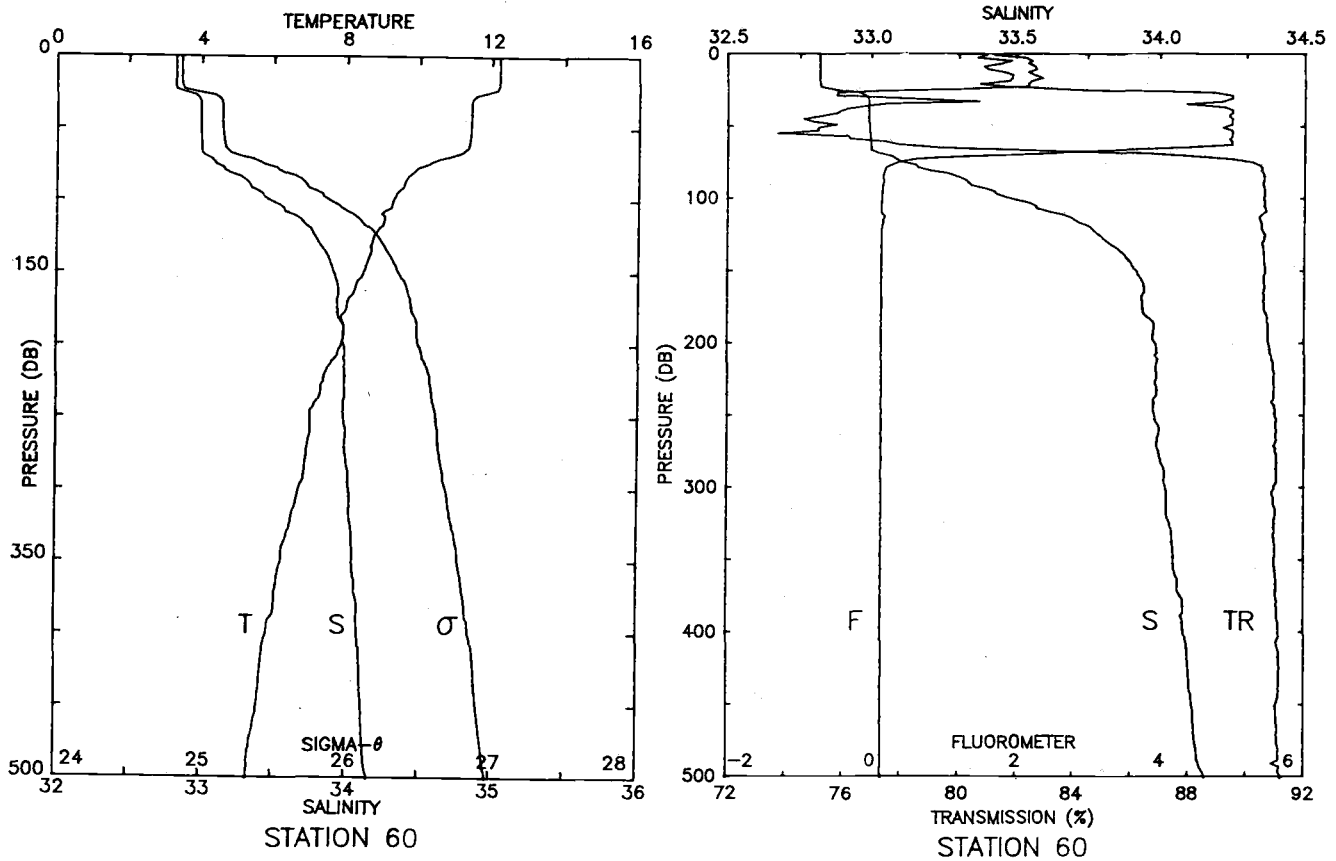
STA NO 58 LAT: 38 43.1 N LONG: 125 18.9 W
23 MAY 1987 1928 GMT PROBE 2561 DEPTH 3608M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.038	32.639	13.038	24.557	336.9	0.003	87.0	0.31
10	13.030	32.641	13.029	24.561	336.8	0.034	86.9	0.33
20	13.031	32.641	13.029	24.561	337.1	0.067	86.9	0.39
30	13.021	32.643	13.017	24.565	337.0	0.101	86.9	0.62
40	13.012	32.653	13.007	24.574	336.3	0.135	87.2	0.76
50	12.975	32.667	12.968	24.593	334.8	0.168	87.8	0.70
60	12.975	32.670	12.967	24.596	334.8	0.202	87.6	0.93
70	12.979	32.725	12.970	24.637	331.1	0.235	86.8	0.82
80	11.872	33.074	11.862	25.120	285.3	0.265	90.0	0.40
90	11.576	33.182	11.565	25.259	272.3	0.293	90.1	0.31
100	11.138	33.325	11.126	25.449	254.4	0.320	90.2	0.20
110	10.706	33.460	10.693	25.631	237.2	0.344	90.3	0.15
120	10.217	33.577	10.203	25.807	220.6	0.367	90.4	0.14
130	10.034	33.639	10.020	25.886	213.3	0.389	90.5	0.14
140	9.770	33.734	9.754	26.005	202.2	0.409	90.5	0.13
150	9.590	33.791	9.574	26.079	195.3	0.429	90.6	0.13
175	9.187	33.899	9.168	26.229	181.5	0.476	80.6	0.13
200	8.741	33.990	8.720	26.372	168.3	0.520	90.8	0.13
225	8.289	34.037	8.266	26.478	158.5	0.561	91.0	0.13
250	7.859	34.050	7.834	26.552	151.7	0.599	91.1	0.14
300	7.107	34.035	7.079	26.648	143.0	0.673	91.1	0.13
400	5.996	34.043	5.961	26.802	129.1	0.808	91.0	0.14
500	5.375	34.098	5.335	26.921	118.4	0.932	91.1	0.14
501	5.367	34.097	5.326	26.921	118.4	0.933	91.1	0.14



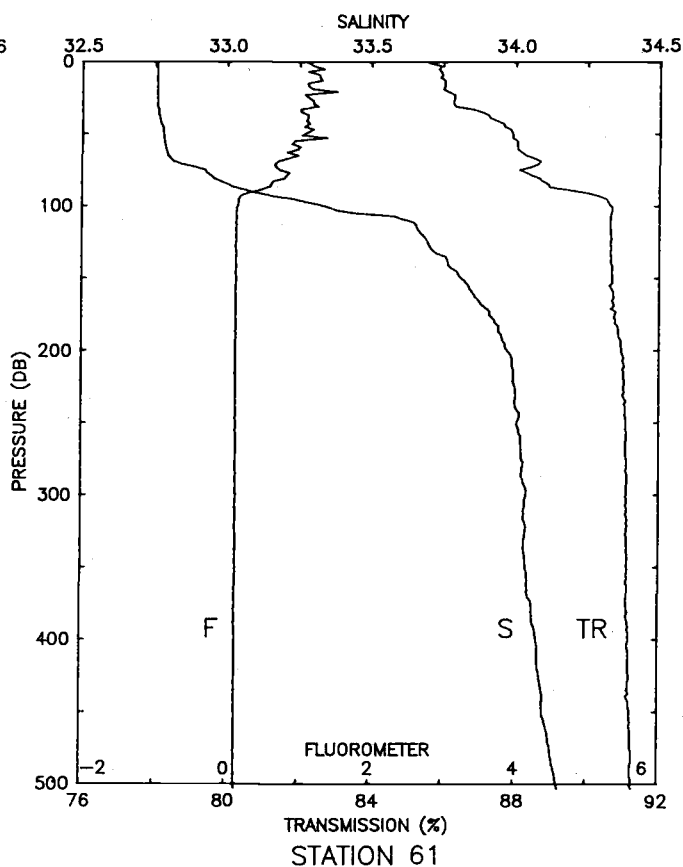
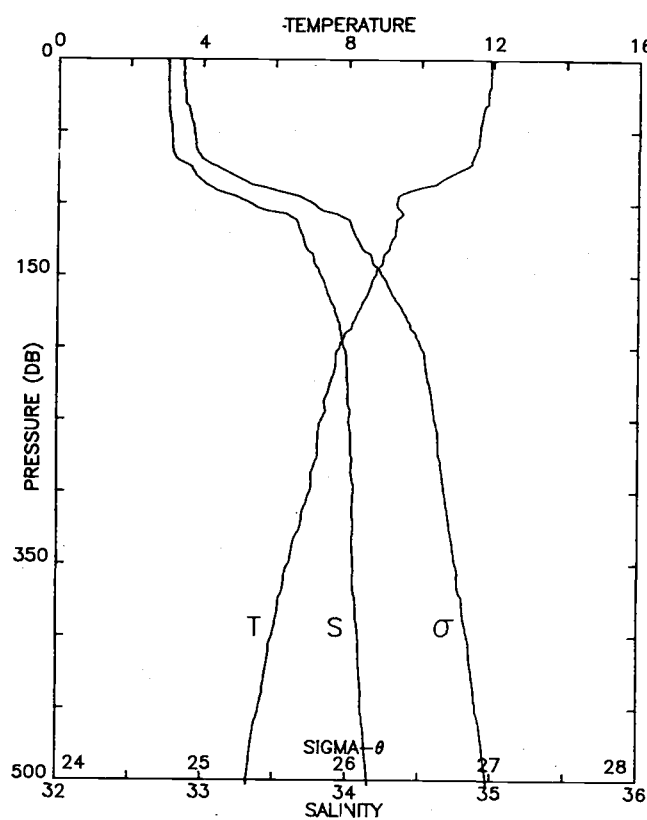
STA NO 59 LAT: 38 50.0 N LONG: 125 1.9 W
 23 MAY 1987 2116 GMT PROBE 2561 DEPTH 3473M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP			THETA				
1	13.268	32.689	13.268	24.551	337.6	0.003	87.7	0.26
10	13.256	32.689	13.255	24.554	337.5	0.034	87.7	0.29
20	13.252	32.689	13.249	24.555	337.7	0.068	87.7	0.36
30	13.224	32.688	13.220	24.559	337.5	0.101	86.5	0.44
40	13.205	32.687	13.199	24.563	337.5	0.135	87.7	0.57
50	13.188	32.685	13.182	24.565	337.5	0.169	87.9	0.52
60	13.183	32.685	13.175	24.566	337.7	0.203	88.0	0.52
70	13.142	32.681	13.132	24.572	337.4	0.236	88.4	0.85
80	11.520	32.894	11.510	25.045	292.4	0.268	90.1	0.49
90	11.075	33.031	11.064	25.232	274.8	0.296	90.4	0.27
100	10.455	33.166	10.443	25.445	254.6	0.323	90.6	0.16
110	9.727	33.278	9.714	25.656	234.7	0.347	90.8	0.14
120	9.639	33.510	9.626	25.851	216.3	0.370	90.6	0.14
130	9.443	33.611	9.429	25.962	206.0	0.391	90.6	0.14
140	9.116	33.732	9.101	26.110	192.1	0.411	90.7	0.12
150	8.796	33.795	8.780	26.210	182.7	0.430	83.4	0.13
175	8.365	33.918	8.347	26.372	167.6	0.473	75.6	0.13
200	8.051	33.968	8.031	26.459	159.7	0.514	90.7	0.13
225	7.699	33.995	7.677	26.532	153.1	0.553	90.9	0.13
250	7.368	34.011	7.344	26.592	147.7	0.591	91.0	0.13
300	6.711	34.020	6.684	26.690	138.8	0.662	91.1	0.13
400	5.962	34.084	5.928	26.838	125.6	0.794	91.2	0.14
500	5.352	34.133	5.311	26.952	115.5	0.915	91.2	0.14
503	5.344	34.134	5.303	26.953	115.4	0.919	91.3	0.14



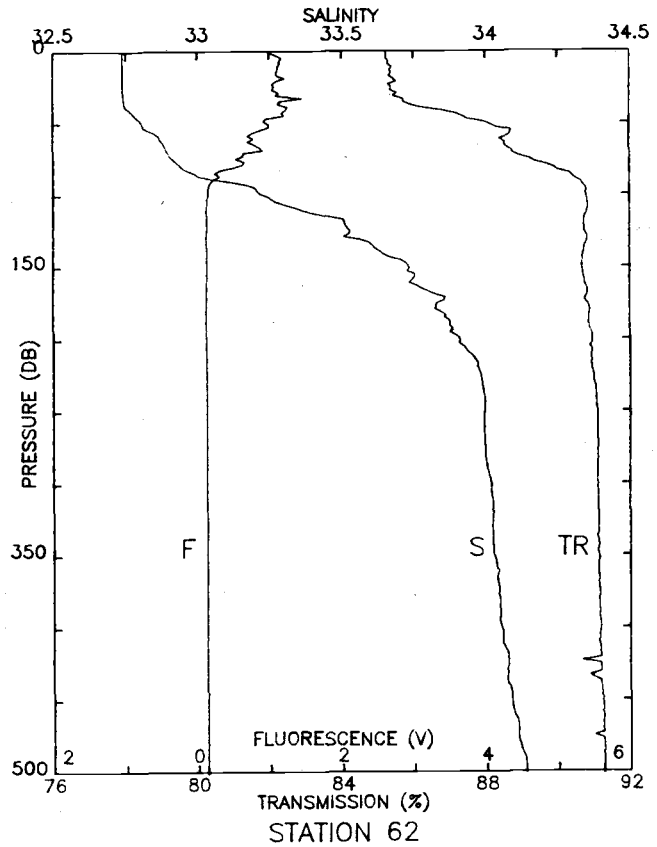
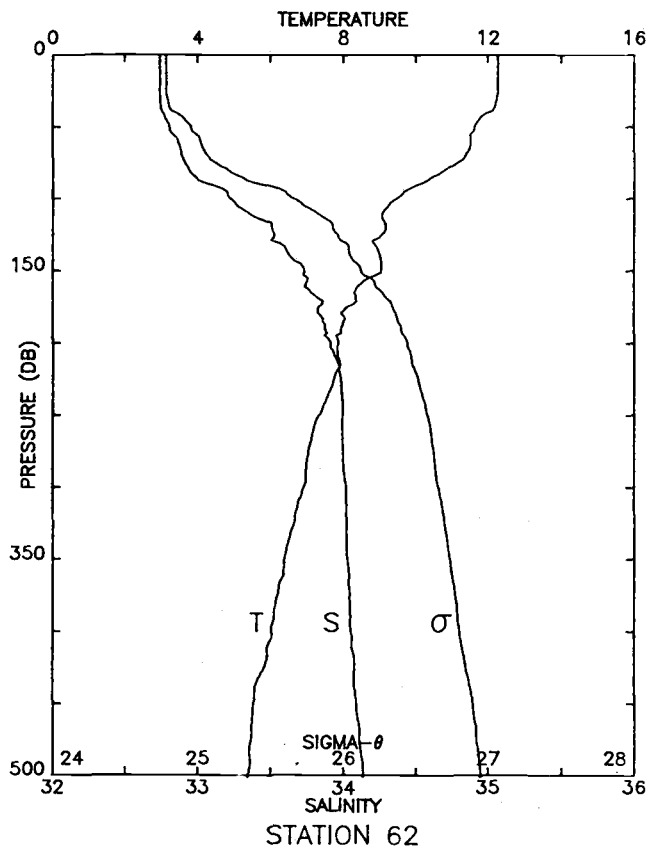
STA NO 60 LAT: 38 56.8 N LONG: 124 43.8 W
 23 MAY 1987 2316 GMT PROBE 2561 DEPTH 3470M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.196	32.818	12.195	24.859	308.3	0.003	81.2	1.57
10	12.198	32.818	12.196	24.859	308.5	0.031	82.7	1.57
20	12.168	32.818	12.166	24.864	308.2	0.062	82.5	1.69
30	11.433	32.981	11.429	25.127	283.4	0.091	76.8	5.00
40	11.399	32.989	11.394	25.140	282.4	0.120	75.9	5.00
50	11.387	32.992	11.381	25.145	282.2	0.148	75.5	4.92
60	11.345	32.997	11.337	25.156	281.3	0.176	76.9	4.98
70	10.709	33.046	10.701	25.307	267.1	0.204	87.3	1.89
80	9.832	33.180	9.823	25.561	243.1	0.229	90.5	0.19
90	9.542	33.338	9.532	25.732	227.0	0.252	90.6	0.16
100	9.253	33.480	9.242	25.890	212.2	0.274	90.6	0.14
110	8.988	33.635	8.976	26.053	196.8	0.295	90.6	0.14
120	8.848	33.758	8.835	26.172	185.7	0.314	90.5	0.15
130	8.664	33.816	8.650	26.246	178.8	0.332	90.6	0.14
140	8.588	33.881	8.573	26.309	173.0	0.350	90.6	0.14
150	8.448	33.916	8.433	26.358	168.5	0.367	90.6	0.14
175	7.986	33.940	7.969	26.446	160.5	0.408	90.6	0.14
200	7.853	33.983	7.833	26.500	155.8	0.447	90.8	0.14
225	7.367	33.987	7.345	26.573	149.0	0.485	90.9	0.14
250	7.010	33.981	6.987	26.618	145.0	0.522	77.4	0.13
300	6.717	34.022	6.690	26.690	138.8	0.593	91.0	0.14
400	5.849	34.085	5.815	26.853	124.1	0.724	91.1	0.14
500	5.318	34.158	5.278	26.975	113.3	0.843	91.2	0.14
501	5.316	34.158	5.276	26.976	113.2	0.844	91.2	0.14



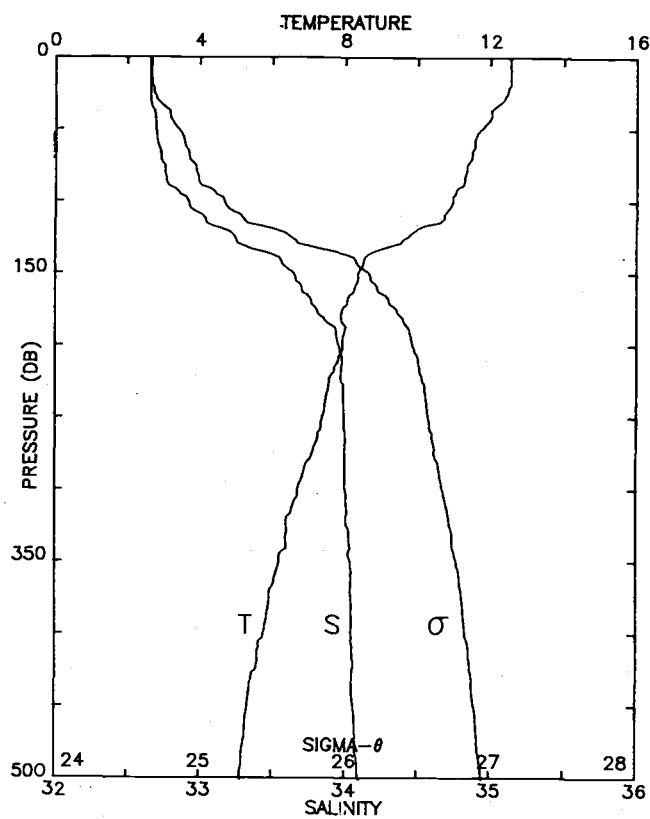
STA NO 61 LAT: 39 3.9 N LONG: 124 50.0 W
 24 MAY 1987 0048 GMT PROBE 2561 DEPTH 3284M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.930	32.755	11.930	24.860	308.2	0.003	85.6	1.12
10	11.924	32.755	11.923	24.860	308.3	0.031	85.9	1.28
20	11.892	32.755	11.889	24.867	307.9	0.062	86.1	1.35
30	11.850	32.756	11.846	24.876	307.3	0.092	86.3	1.22
40	11.694	32.765	11.689	24.912	304.1	0.123	87.4	1.10
50	11.627	32.778	11.621	24.935	302.2	0.153	87.9	1.07
60	11.577	32.785	11.570	24.950	301.0	0.183	88.0	0.99
70	11.431	32.828	11.423	25.009	295.5	0.213	88.7	0.69
80	10.879	32.949	10.870	25.202	277.3	0.242	88.6	0.81
90	9.883	33.080	9.872	25.475	251.5	0.269	89.7	0.39
100	9.328	33.335	9.317	25.765	224.0	0.292	90.7	0.15
110	9.399	33.628	9.387	25.982	203.6	0.314	90.7	0.13
120	9.297	33.680	9.284	26.039	198.4	0.334	90.7	0.14
130	9.137	33.713	9.123	26.091	193.6	0.353	86.5	0.13
140	8.946	33.769	8.931	26.166	186.7	0.372	81.3	0.13
150	8.736	33.815	8.720	26.235	180.3	0.391	90.7	0.14
175	8.280	33.911	8.262	26.380	166.8	0.434	90.8	0.13
200	7.760	33.974	7.740	26.507	155.1	0.474	85.0	0.13
225	7.510	34.001	7.489	26.564	150.0	0.512	91.0	0.13
250	7.282	34.009	7.258	26.602	146.6	0.549	91.1	0.13
300	6.979	34.041	6.951	26.670	140.8	0.621	91.1	0.14
400	5.962	34.080	5.928	26.835	125.9	0.755	91.2	0.14
500	5.280	34.151	5.240	26.975	113.3	0.874	91.3	0.14
503	5.285	34.155	5.244	26.977	113.1	0.878	91.3	0.14

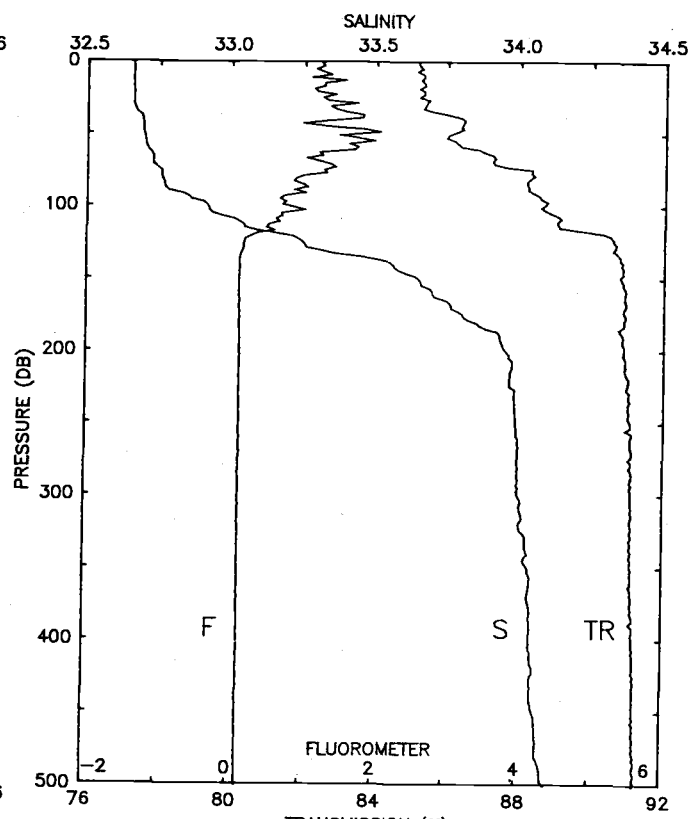


STA NO 62 LAT: 39 10.9 N LONG: 124 55.0 W
 24 MAY 1987 0215 GMT PROBE 2561 DEPTH 3105M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.270	32.737	12.270	24.782	315.6	0.003	85.2	0.99
10	12.272	32.737	12.270	24.782	315.8	0.032	85.3	1.13
20	12.267	32.738	12.264	24.784	315.8	0.063	85.5	1.16
30	12.241	32.740	12.237	24.790	315.5	0.095	85.5	1.12
40	12.019	32.758	12.014	24.846	310.4	0.126	86.5	1.24
50	11.631	32.807	11.625	24.956	300.1	0.157	88.0	0.96
60	11.522	32.868	11.515	25.024	293.9	0.186	88.5	0.74
70	11.369	32.895	11.361	25.073	289.5	0.215	88.7	0.78
80	10.797	32.942	10.788	25.211	276.5	0.244	89.8	0.56
90	10.083	33.088	10.073	25.447	254.1	0.271	90.6	0.21
100	9.454	33.230	9.443	25.662	233.8	0.295	90.8	0.15
110	9.082	33.353	9.070	25.818	219.1	0.317	90.8	0.12
120	9.165	33.511	9.152	25.929	208.8	0.339	90.7	0.13
130	8.814	33.536	8.800	26.003	201.9	0.359	90.8	0.12
140	9.020	33.640	9.005	26.053	197.4	0.379	90.7	0.14
150	9.038	33.735	9.022	26.124	190.9	0.399	90.7	0.14
175	8.102	33.831	8.085	26.344	170.2	0.443	90.8	0.13
200	7.851	33.910	7.831	26.443	161.1	0.485	91.0	0.13
225	7.733	33.984	7.711	26.518	154.4	0.524	91.0	0.13
250	7.340	33.995	7.316	26.583	148.4	0.562	91.1	0.13
300	6.921	34.019	6.893	26.661	141.7	0.635	91.1	0.13
400	6.029	34.053	5.995	26.805	128.8	0.769	91.2	0.14
500	5.382	34.138	5.341	26.952	115.5	0.891	91.3	0.14
501	5.377	34.138	5.336	26.953	115.5	0.892	91.3	0.14



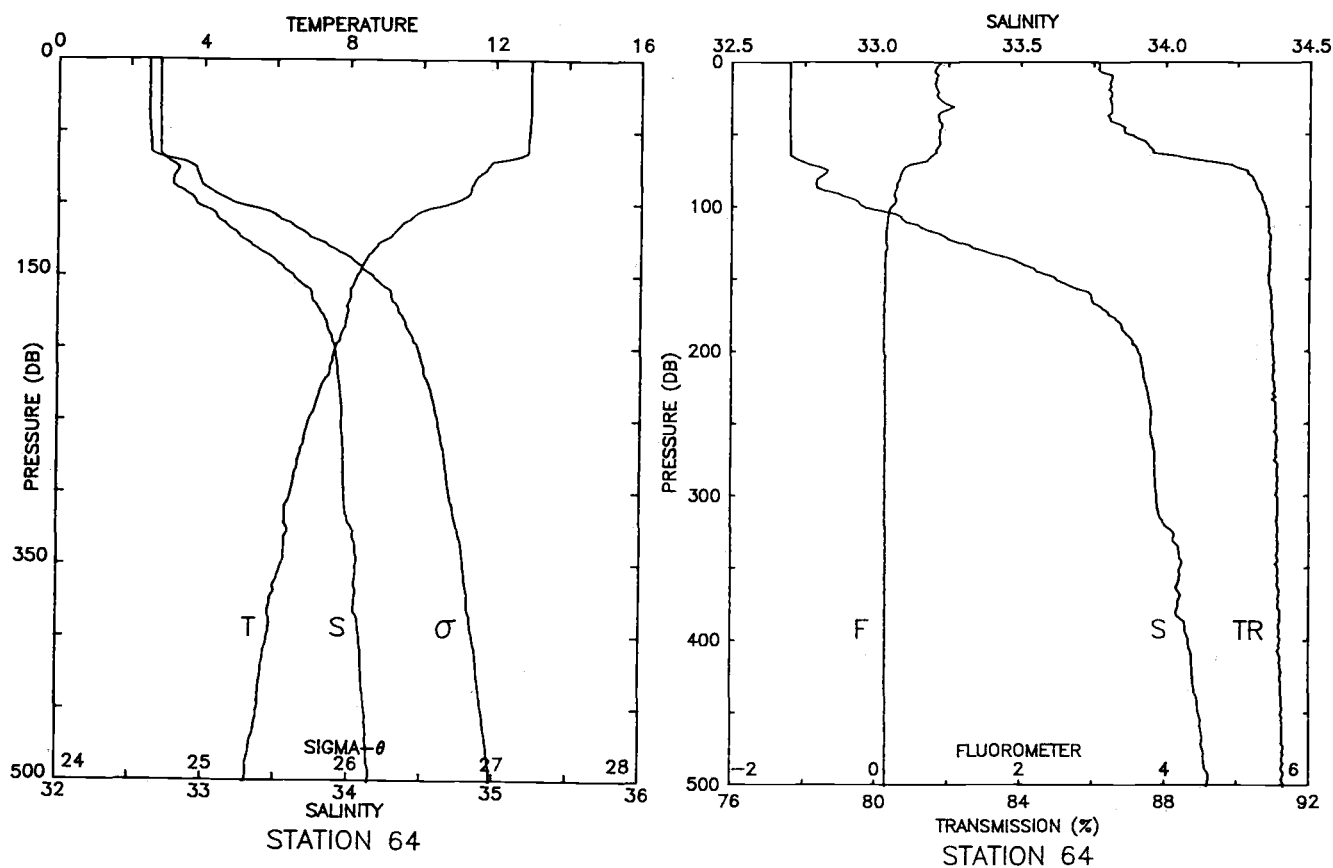
STATION 63



STATION 63

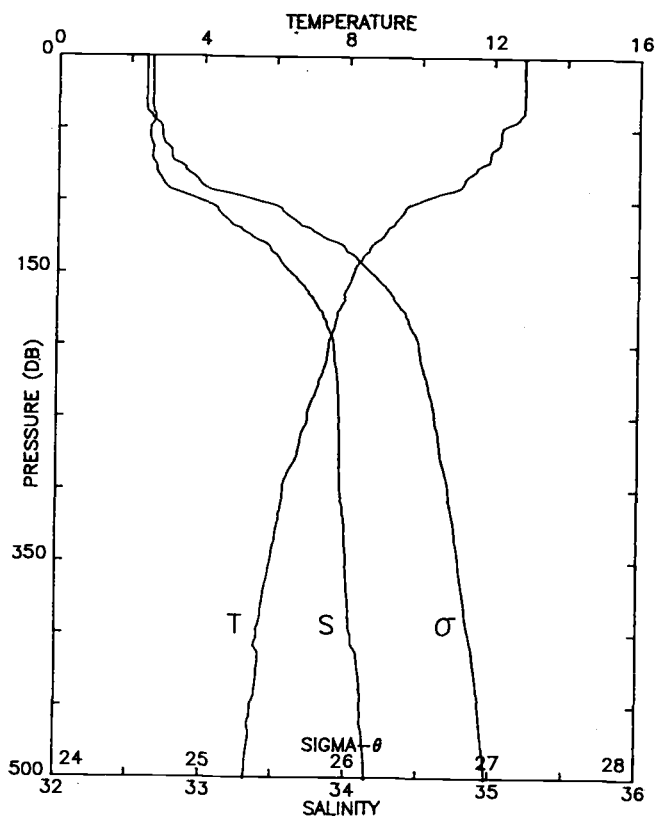
STA NO 63 LAT: 39 18.0 N LONG: 125 0.0 W
24 MAY 1987 0339 GMT PROBE 2561 DEPTH 3032M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.551	32.657	12.550	24.666	326.6	0.003	85.2	1.24
10	12.556	32.656	12.555	24.665	326.9	0.033	85.3	1.23
20	12.526	32.657	12.524	24.672	326.5	0.065	85.3	1.15
30	12.337	32.659	12.333	24.709	323.2	0.098	85.3	1.55
40	12.017	32.690	12.012	24.794	315.4	0.130	86.4	1.56
50	11.732	32.695	11.726	24.851	310.1	0.161	86.1	1.77
60	11.554	32.708	11.547	24.894	306.3	0.192	86.6	1.72
70	11.468	32.728	11.460	24.925	303.6	0.222	87.3	1.28
80	11.317	32.759	11.307	24.976	298.8	0.252	88.3	0.94
90	11.157	32.805	11.146	25.041	292.9	0.282	88.3	0.94
100	10.949	32.919	10.937	25.167	281.2	0.311	88.6	0.78
110	10.725	33.019	10.712	25.284	270.1	0.338	89.1	0.64
120	9.965	33.181	9.951	25.540	245.9	0.364	90.4	0.33
130	9.389	33.286	9.375	25.717	229.2	0.388	90.6	0.17
140	8.512	33.555	8.498	26.065	196.1	0.409	90.8	0.13
150	8.346	33.647	8.330	26.163	187.0	0.428	90.8	0.12
175	7.906	33.806	7.889	26.352	169.3	0.473	90.8	0.12
200	7.918	33.954	7.898	26.467	158.9	0.514	90.9	0.13
225	7.549	33.970	7.528	26.534	152.8	0.553	91.0	0.13
250	7.370	33.991	7.347	26.576	149.1	0.591	91.1	0.13
300	6.705	34.002	6.678	26.676	140.0	0.663	91.1	0.13
400	5.764	34.045	5.730	26.832	126.0	0.795	91.2	0.13
500	5.131	34.099	5.091	26.950	115.4	0.915	91.3	0.14
501	5.142	34.103	5.102	26.952	115.3	0.916	91.3	0.14

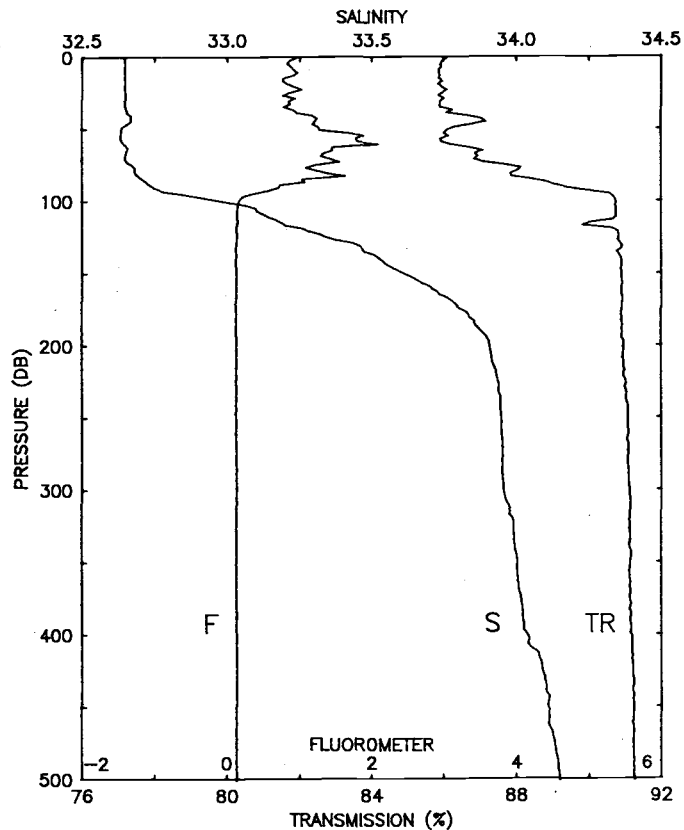


STA NO 64 LAT: 39 24.9 N LONG: 125 5.2 W
 24 MAY 1987 0518 GMT PROBE 2561 DEPTH 3017M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.943	32.699	12.943	24.623	330.7	0.003	86.2	0.88
10	12.942	32.699	12.941	24.623	330.9	0.033	86.5	0.84
20	12.944	32.699	12.942	24.623	331.2	0.066	86.5	0.85
30	12.947	32.699	12.943	24.623	331.5	0.099	86.5	1.02
40	12.946	32.699	12.941	24.623	331.7	0.132	86.5	0.87
50	12.914	32.701	12.907	24.631	331.2	0.166	87.0	0.88
60	12.884	32.702	12.876	24.638	330.8	0.199	87.6	0.84
70	12.141	32.755	12.132	24.821	313.5	0.231	89.5	0.59
80	11.571	32.804	11.561	24.966	299.9	0.262	90.4	0.33
90	11.306	32.841	11.295	25.042	292.8	0.291	90.6	0.26
100	10.693	32.954	10.681	25.239	274.2	0.320	90.8	0.21
110	9.679	33.097	9.667	25.522	247.4	0.346	90.8	0.15
120	9.207	33.228	9.194	25.700	230.5	0.370	90.9	0.13
130	8.707	33.355	8.694	25.878	213.7	0.392	90.9	0.15
140	8.409	33.506	8.395	26.042	198.2	0.412	90.9	0.12
150	8.199	33.622	8.184	26.164	186.8	0.432	83.9	0.13
175	7.971	33.806	7.954	26.344	170.2	0.476	91.0	0.11
200	7.618	33.907	7.599	26.474	158.1	0.517	91.0	0.12
225	7.257	33.935	7.236	26.547	151.4	0.555	91.0	0.12
250	6.903	33.950	6.880	26.608	145.9	0.593	91.1	0.13
300	6.419	33.972	6.393	26.691	138.5	0.664	91.1	0.14
400	5.798	34.083	5.764	26.857	123.6	0.794	91.2	0.14
500	5.194	34.148	5.154	26.982	112.5	0.912	91.3	0.14
501	5.179	34.146	5.139	26.983	112.4	0.913	91.3	0.14



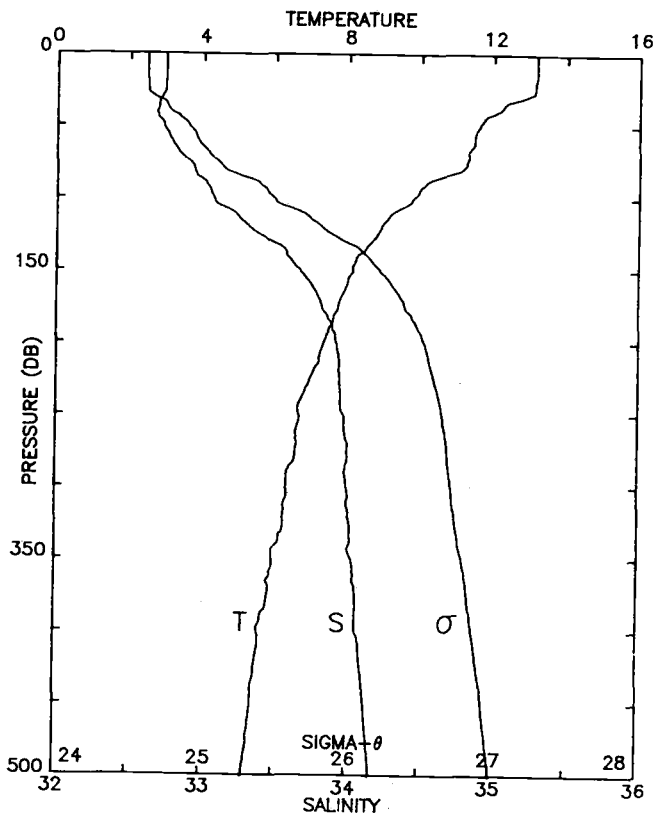
STATION 65



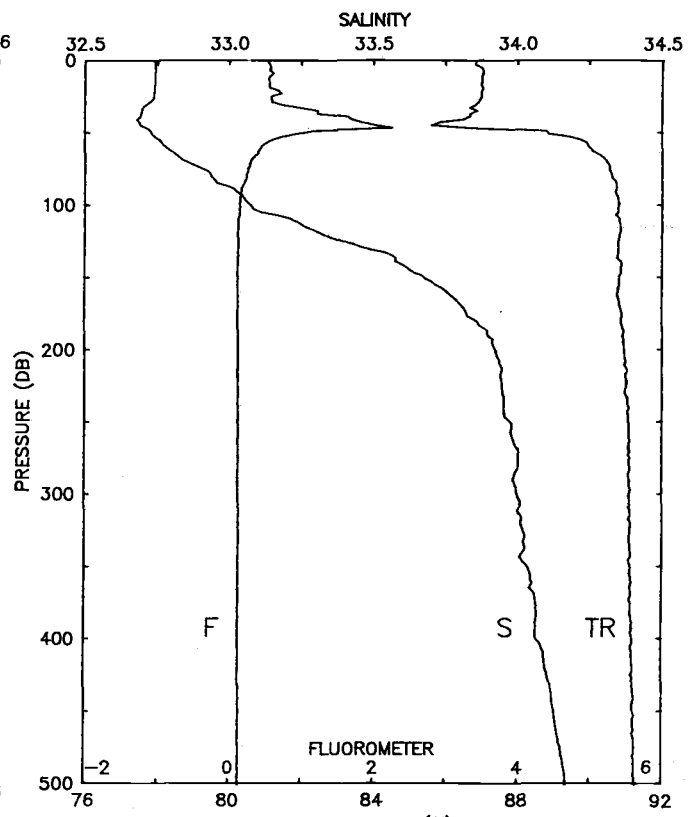
STATION 65

STA NO 65 LAT: 39 31.5 N LONG: 125 10.0 W
 24 MAY 1987 0641 GMT PROBE 2561 DEPTH 3300M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.826	32.646	12.826	24.604	332.5	0.003	86.1	0.94
10	12.827	32.646	12.826	24.604	332.7	0.033	85.8	0.94
20	12.830	32.647	12.827	24.605	332.9	0.067	85.9	0.88
30	12.834	32.647	12.830	24.605	333.2	0.100	86.0	0.89
40	12.777	32.663	12.772	24.628	331.2	0.133	86.4	1.07
50	12.224	32.635	12.217	24.713	323.3	0.166	86.2	1.27
60	12.162	32.643	12.154	24.730	321.9	0.198	86.1	1.95
70	11.894	32.648	11.885	24.784	317.0	0.230	86.9	1.36
80	11.469	32.683	11.459	24.890	307.1	0.261	87.9	1.31
90	11.115	32.742	11.104	25.000	296.8	0.291	89.2	0.72
100	9.985	32.978	9.973	25.378	260.9	0.319	90.7	0.17
110	9.454	33.132	9.442	25.586	241.2	0.344	90.7	0.14
120	9.077	33.270	9.065	25.754	225.4	0.368	90.7	0.13
130	8.680	33.444	8.666	25.952	206.7	0.389	90.9	0.13
140	8.381	33.528	8.367	26.064	196.2	0.409	90.9	0.12
150	8.153	33.610	8.138	26.162	187.0	0.429	90.9	0.13
175	7.800	33.808	7.782	26.370	167.6	0.473	90.9	0.12
200	7.488	33.909	7.469	26.494	156.2	0.513	91.0	0.13
225	7.228	33.937	7.207	26.553	150.8	0.551	91.0	0.12
250	6.916	33.948	6.893	26.605	146.2	0.589	91.1	0.13
300	6.248	33.956	6.222	26.700	137.5	0.660	91.1	0.13
400	5.558	34.038	5.525	26.851	124.0	0.790	91.2	0.13
500	5.256	34.149	5.216	26.976	113.1	0.908	91.3	0.14
501	5.256	34.150	5.216	26.976	113.1	0.909	91.3	0.13



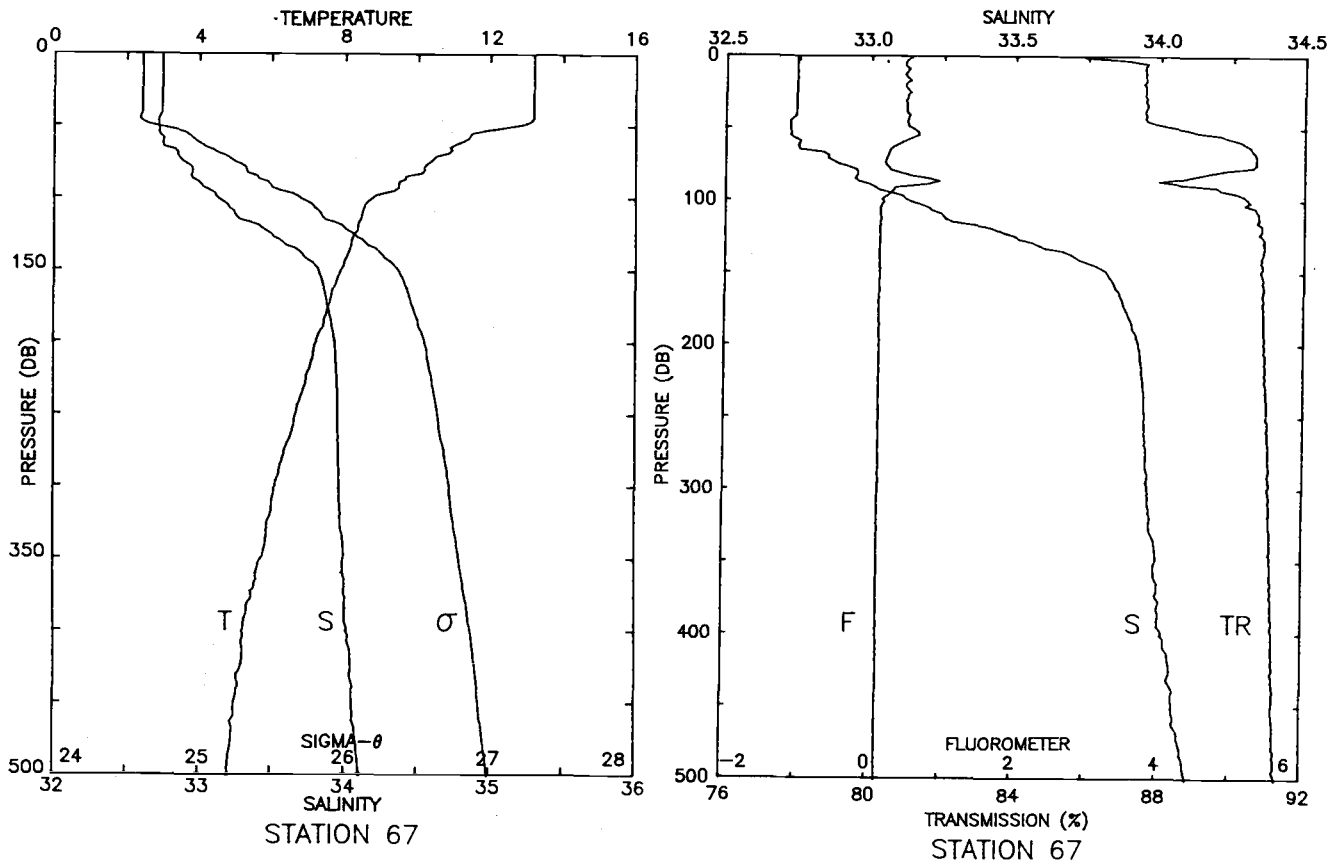
STATION 66



STATION 66

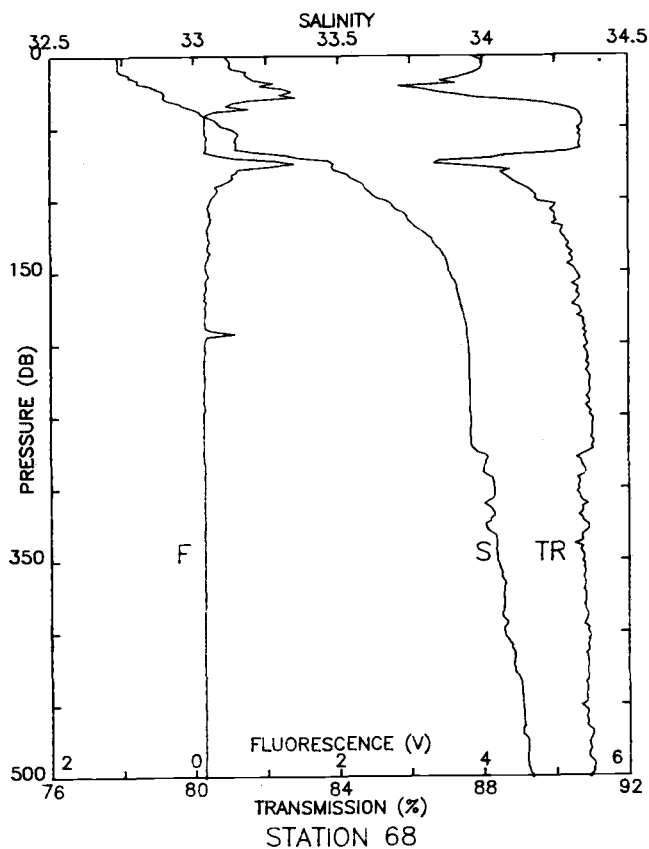
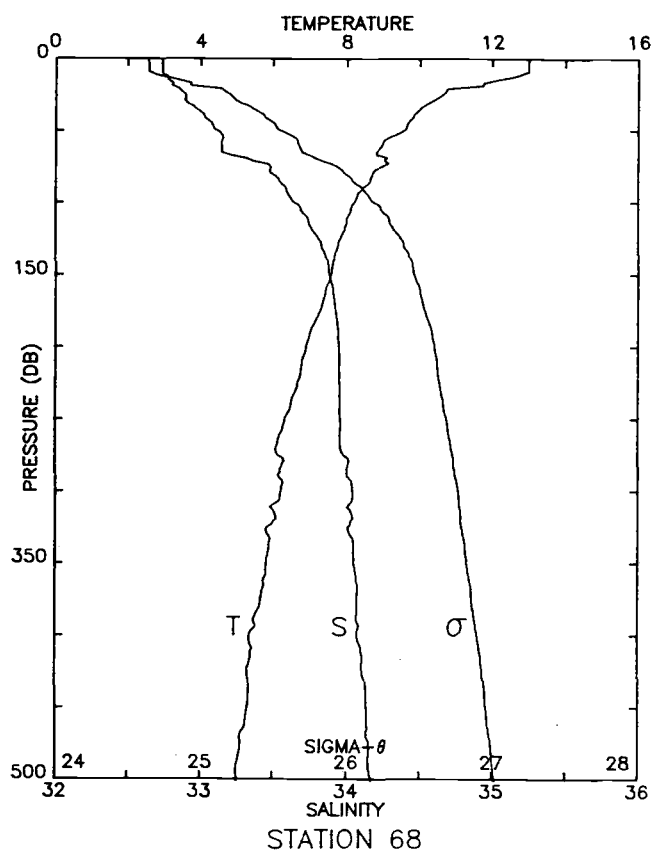
STA NO 66 LAT: 39 39.1 N LONG: 125 14.9 W
 24 MAY 1987 0812 GMT PROBE 2561 DEPTH 3205M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	13.154	32.741	13.154	24.614	331.6	0.003	86.1	0.54
10	13.158	32.741	13.156	24.613	331.9	0.033	87.0	0.59
20	13.115	32.738	13.113	24.620	331.5	0.066	87.0	0.63
30	12.802	32.715	12.798	24.663	327.6	0.099	86.9	0.68
40	12.090	32.684	12.085	24.775	317.1	0.132	86.6	1.67
50	11.605	32.730	11.599	24.901	305.4	0.163	88.8	1.07
60	11.473	32.780	11.465	24.964	299.6	0.193	90.0	0.46
70	11.303	32.850	11.294	25.050	291.7	0.222	90.5	0.30
80	11.123	32.939	11.113	25.151	282.2	0.251	90.6	0.24
90	10.115	33.023	10.105	25.391	259.4	0.278	90.7	0.17
100	9.775	33.075	9.764	25.489	250.3	0.304	90.8	0.15
110	9.210	33.217	9.198	25.691	231.2	0.328	90.8	0.14
120	8.894	33.321	8.882	25.823	218.8	0.350	90.8	0.12
130	8.632	33.472	8.618	25.982	203.8	0.371	90.8	0.13
140	8.243	33.587	8.229	26.131	189.8	0.391	90.9	0.13
150	8.117	33.676	8.102	26.220	181.5	0.410	90.8	0.12
175	7.727	33.824	7.710	26.393	165.4	0.453	90.9	0.12
200	7.329	33.922	7.310	26.527	153.0	0.492	91.0	0.13
225	6.958	33.946	6.937	26.598	146.5	0.530	91.0	0.13
250	6.680	33.974	6.658	26.657	141.1	0.566	91.1	0.13
300	6.345	34.000	6.318	26.722	135.4	0.635	91.1	0.13
400	5.569	34.067	5.536	26.873	121.9	0.764	91.2	0.13
500	5.182	34.170	5.142	27.001	110.7	0.880	91.3	0.14
501	5.174	34.170	5.134	27.002	110.7	0.881	91.3	0.14



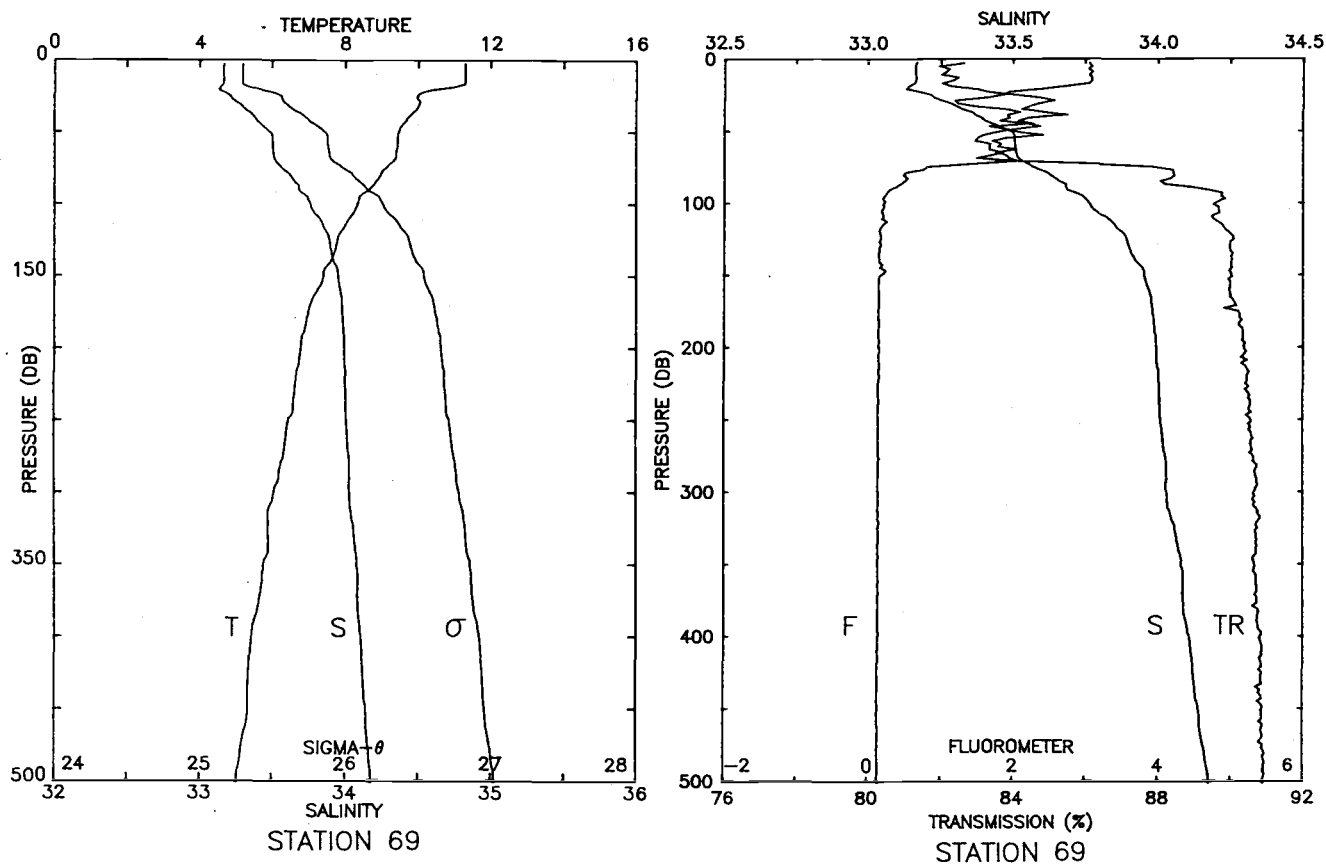
STA NO 67 LAT: 39 45.8 N LONG: 125 19.8 W
 24 MAY 1987 0936 GMT PROBE 2561 DEPTH 3300M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.197	32.742	13.197	24.606	332.3	0.003	85.9	0.55
10	13.199	32.743	13.198	24.606	332.5	0.033	87.6	0.51
20	13.200	32.743	13.197	24.606	332.8	0.067	87.6	0.47
30	13.201	32.742	13.197	24.606	333.1	0.100	87.6	0.49
40	13.200	32.742	13.194	24.606	333.3	0.133	87.6	0.51
50	12.688	32.721	12.681	24.690	325.5	0.166	88.5	0.56
60	11.317	32.755	11.309	24.973	298.7	0.197	90.3	0.43
70	10.688	32.853	10.680	25.160	281.0	0.226	90.7	0.23
80	10.172	32.954	10.163	25.328	265.3	0.253	89.6	0.34
90	9.468	33.007	9.459	25.485	250.4	0.279	89.1	0.56
100	8.750	33.130	8.740	25.695	230.5	0.304	90.5	0.17
110	8.467	33.247	8.456	25.829	217.9	0.326	90.7	0.14
120	8.344	33.427	8.331	25.990	202.8	0.347	90.8	0.13
130	8.167	33.570	8.154	26.128	189.8	0.367	90.9	0.13
140	8.053	33.716	8.039	26.260	177.5	0.385	90.8	0.13
150	7.887	33.818	7.873	26.365	167.7	0.402	90.8	0.13
175	7.553	33.884	7.536	26.465	158.5	0.443	90.9	0.13
200	7.215	33.931	7.196	26.550	150.7	0.482	90.8	0.14
225	6.951	33.946	6.930	26.599	146.4	0.519	90.9	0.13
250	6.675	33.953	6.652	26.641	142.6	0.555	91.0	0.14
300	6.112	33.965	6.086	26.724	135.1	0.624	91.0	0.13
400	5.233	34.017	5.201	26.873	121.6	0.753	91.2	0.13
500	4.830	34.107	4.791	26.991	111.2	0.870	91.3	0.13
501	4.830	34.108	4.791	26.991	111.2	0.871	91.3	0.13



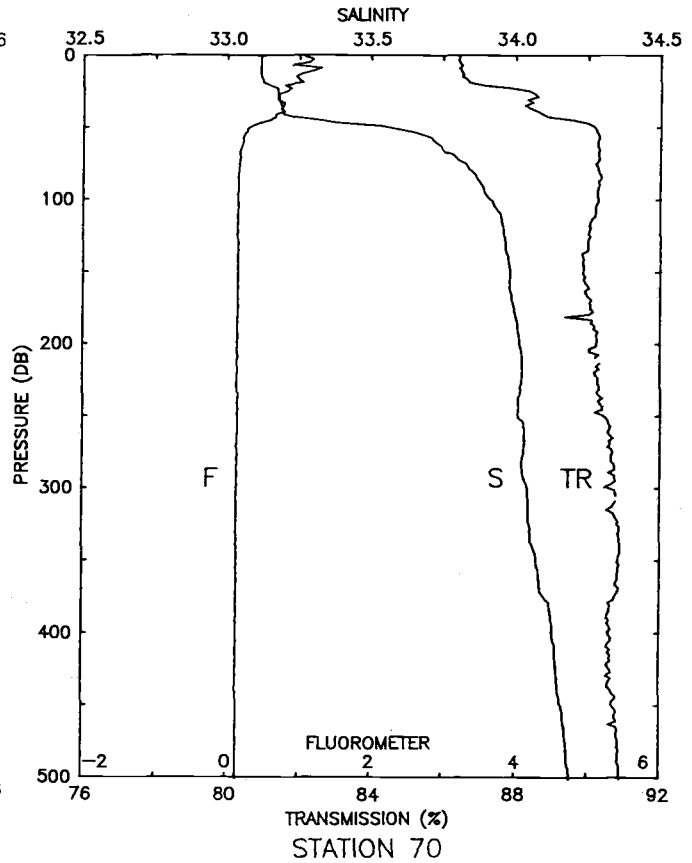
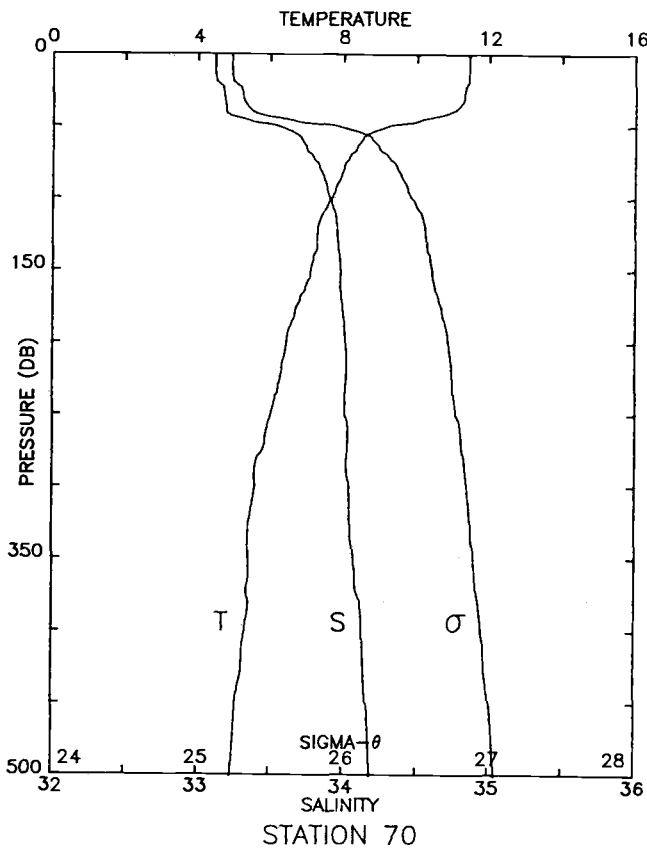
STA NO 68 LAT: 39 53.0 N LONG: 125 24.9 W
 24 MAY 1987 1108 GMT PROBE 2561 DEPTH 3040M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.993	32.734	12.993	24.640	329.1	0.003	87.8	0.45
10	12.884	32.739	12.883	24.665	326.9	0.033	87.9	0.64
20	11.242	32.825	11.239	25.039	291.5	0.064	86.5	1.01
30	10.314	32.899	10.310	25.260	270.7	0.092	88.4	1.09
40	9.818	33.025	9.813	25.442	253.6	0.118	90.6	0.23
50	9.547	33.116	9.541	25.557	242.8	0.143	90.7	0.15
60	8.946	33.146	8.940	25.676	231.6	0.166	90.7	0.17
70	9.046	33.342	9.039	25.814	218.7	0.189	88.4	0.43
80	8.684	33.498	8.676	25.993	201.8	0.210	88.6	0.60
90	8.423	33.589	8.414	26.104	191.4	0.229	89.1	0.35
100	8.183	33.653	8.173	26.191	183.4	0.248	89.5	0.24
110	8.012	33.734	8.001	26.279	175.1	0.266	90.0	0.22
120	7.912	33.777	7.900	26.328	170.6	0.283	90.2	0.19
130	7.764	33.831	7.751	26.393	164.7	0.300	90.4	0.22
140	7.634	33.869	7.620	26.441	160.2	0.316	90.4	0.19
150	7.571	33.883	7.557	26.462	158.4	0.332	90.6	0.17
175	7.277	33.926	7.260	26.537	151.6	0.371	90.7	0.15
200	6.907	33.948	6.888	26.606	145.3	0.408	90.9	0.15
225	6.670	33.954	6.650	26.642	142.1	0.444	91.0	0.14
250	6.336	33.958	6.314	26.689	137.8	0.479	91.0	0.14
300	6.219	34.039	6.193	26.769	130.9	0.546	90.6	0.15
400	5.365	34.074	5.332	26.902	119.0	0.671	90.9	0.15
500	5.018	34.168	4.978	27.018	108.9	0.785	91.0	0.14
501	5.013	34.169	4.973	27.019	108.8	0.786	90.9	0.14



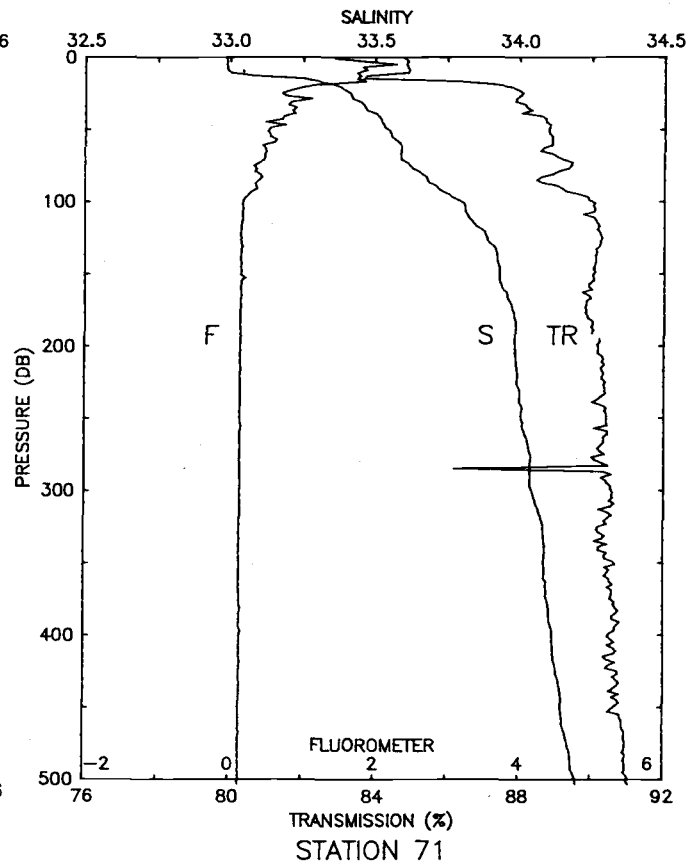
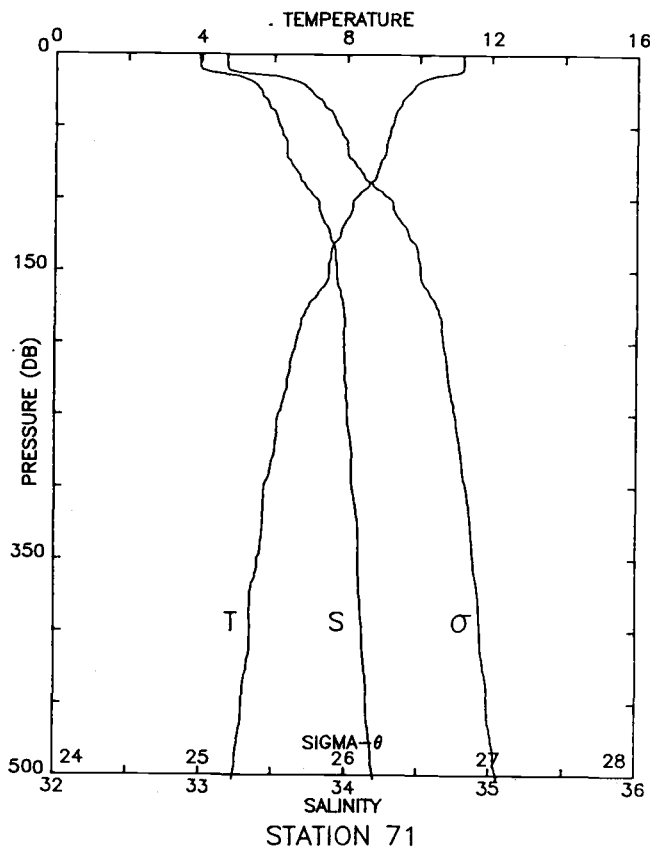
STA NO 69 LAT: 39 59.9 N LONG: 125 30.1 W
 24 MAY 1987 1223 GMT PROBE 2561 DEPTH 2995M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.283	33.168	11.282	25.299	266.4	0.008	86.1	1.31
10	11.284	33.163	11.283	25.295	266.9	0.027	86.2	1.04
20	10.641	33.135	10.638	25.387	258.4	0.053	85.0	1.31
30	10.040	33.269	10.037	25.595	238.8	0.078	82.4	2.47
40	9.728	33.383	9.723	25.736	225.6	0.101	83.9	2.49
50	9.461	33.488	9.456	25.862	213.8	0.123	83.8	2.01
60	9.424	33.508	9.417	25.884	211.9	0.144	83.4	1.82
70	9.328	33.527	9.320	25.914	209.3	0.165	83.6	2.01
80	8.964	33.627	8.956	26.051	196.4	0.186	88.4	0.51
90	8.651	33.688	8.641	26.147	187.4	0.205	89.2	0.35
100	8.332	33.765	8.322	26.256	177.2	0.223	89.6	0.23
110	8.113	33.825	8.102	26.336	169.7	0.240	89.5	0.21
120	7.873	33.877	7.861	26.412	162.6	0.257	89.9	0.17
130	7.749	33.901	7.737	26.450	159.3	0.273	90.0	0.18
140	7.612	33.924	7.599	26.488	155.8	0.289	82.7	0.16
150	7.412	33.954	7.398	26.539	151.0	0.304	90.0	0.19
175	6.999	33.981	6.983	26.619	143.7	0.341	85.3	0.15
200	6.788	33.994	6.770	26.658	140.3	0.376	81.4	0.16
225	6.652	34.004	6.632	26.684	138.2	0.411	90.4	0.15
250	6.460	34.010	6.437	26.715	135.5	0.445	89.7	0.15
300	6.060	34.031	6.035	26.783	129.5	0.512	90.7	0.15
400	5.438	34.109	5.405	26.922	117.2	0.635	90.8	0.15
500	5.030	34.176	4.990	27.024	108.4	0.749	90.9	0.14
501	5.029	34.177	4.989	27.024	108.4	0.750	90.9	0.14



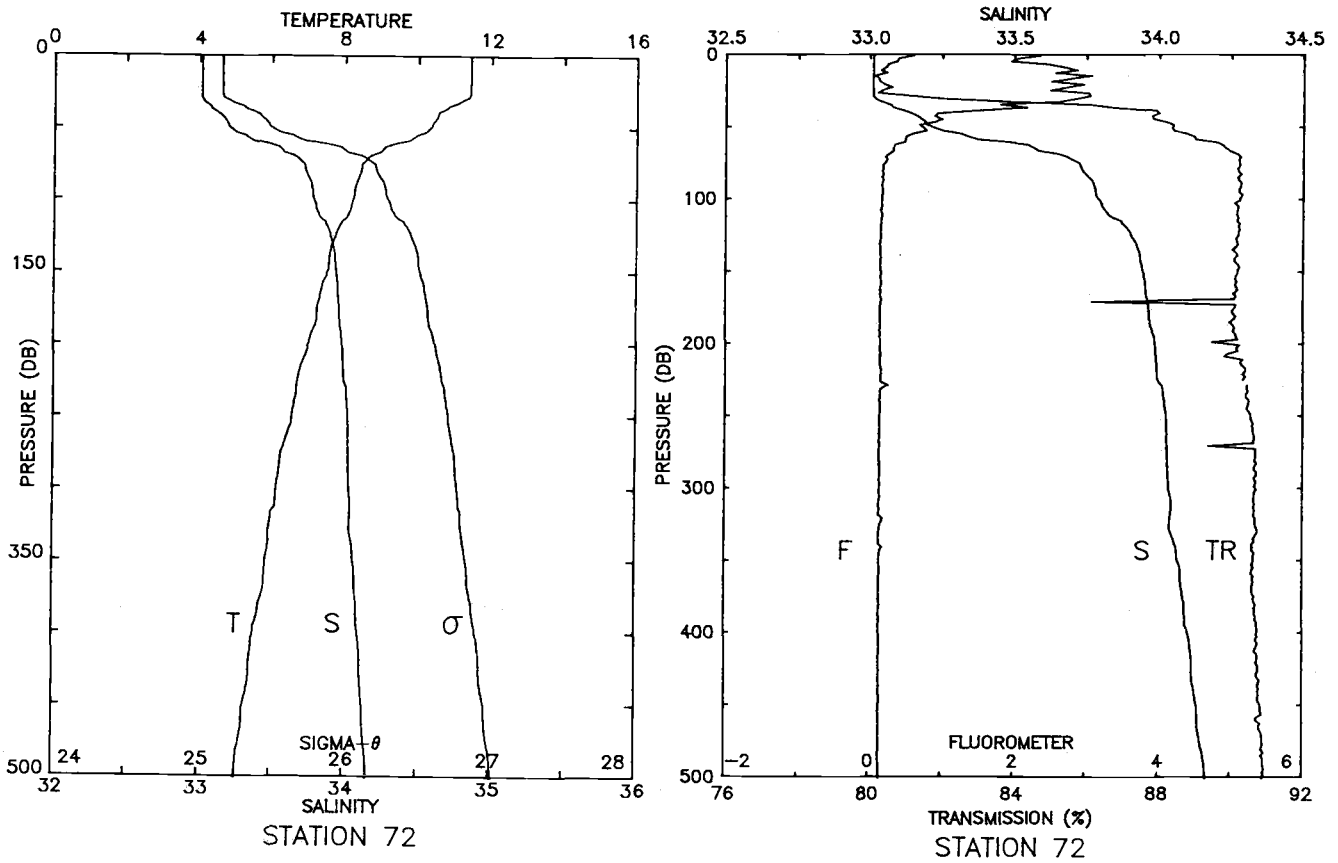
STA NO 70 LAT: 40 7.3 N LONG: 125 29.9 W
 24 MAY 1987 1335 GMT PROBE 2561 DEPTH 2464M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.436	33.116	11.436	25.231	272.8	0.003	86.5	1.07
10	11.433	33.115	11.432	25.231	273.0	0.027	86.5	1.25
20	11.400	33.137	11.397	25.254	271.1	0.055	86.9	0.92
30	11.280	33.178	11.276	25.308	266.2	0.081	88.4	0.70
40	10.933	33.193	10.928	25.381	259.4	0.108	88.6	0.73
50	9.148	33.562	9.143	25.970	203.6	0.131	90.2	0.32
60	8.460	33.722	8.454	26.203	181.6	0.150	90.3	0.22
70	8.174	33.789	8.167	26.299	172.6	0.168	90.3	0.18
80	7.985	33.846	7.977	26.371	165.9	0.185	90.3	0.17
90	7.820	33.883	7.811	26.425	160.9	0.201	90.3	0.16
100	7.664	33.912	7.654	26.470	156.8	0.217	90.3	0.15
110	7.433	33.947	7.422	26.530	151.2	0.232	90.2	0.15
120	7.304	33.958	7.293	26.558	148.7	0.247	90.0	0.15
130	7.278	33.964	7.266	26.566	148.1	0.262	90.0	0.15
140	7.177	33.974	7.164	26.588	146.1	0.277	84.1	0.15
150	7.098	33.980	7.084	26.604	144.7	0.292	86.4	0.15
175	6.713	33.995	6.698	26.668	138.9	0.327	42.4	0.16
200	6.457	34.016	6.439	26.719	134.4	0.361	90.2	0.15
225	6.291	34.023	6.271	26.746	132.1	0.395	90.3	0.15
250	6.018	34.009	5.997	26.771	130.0	0.427	78.7	0.15
300	5.594	34.044	5.569	26.851	122.8	0.490	83.3	0.15
400	5.327	34.132	5.295	26.953	114.2	0.609	90.6	0.14
500	4.936	34.191	4.897	27.046	106.2	0.719	90.8	0.14
501	4.934	34.191	4.894	27.046	106.2	0.720	90.9	0.14



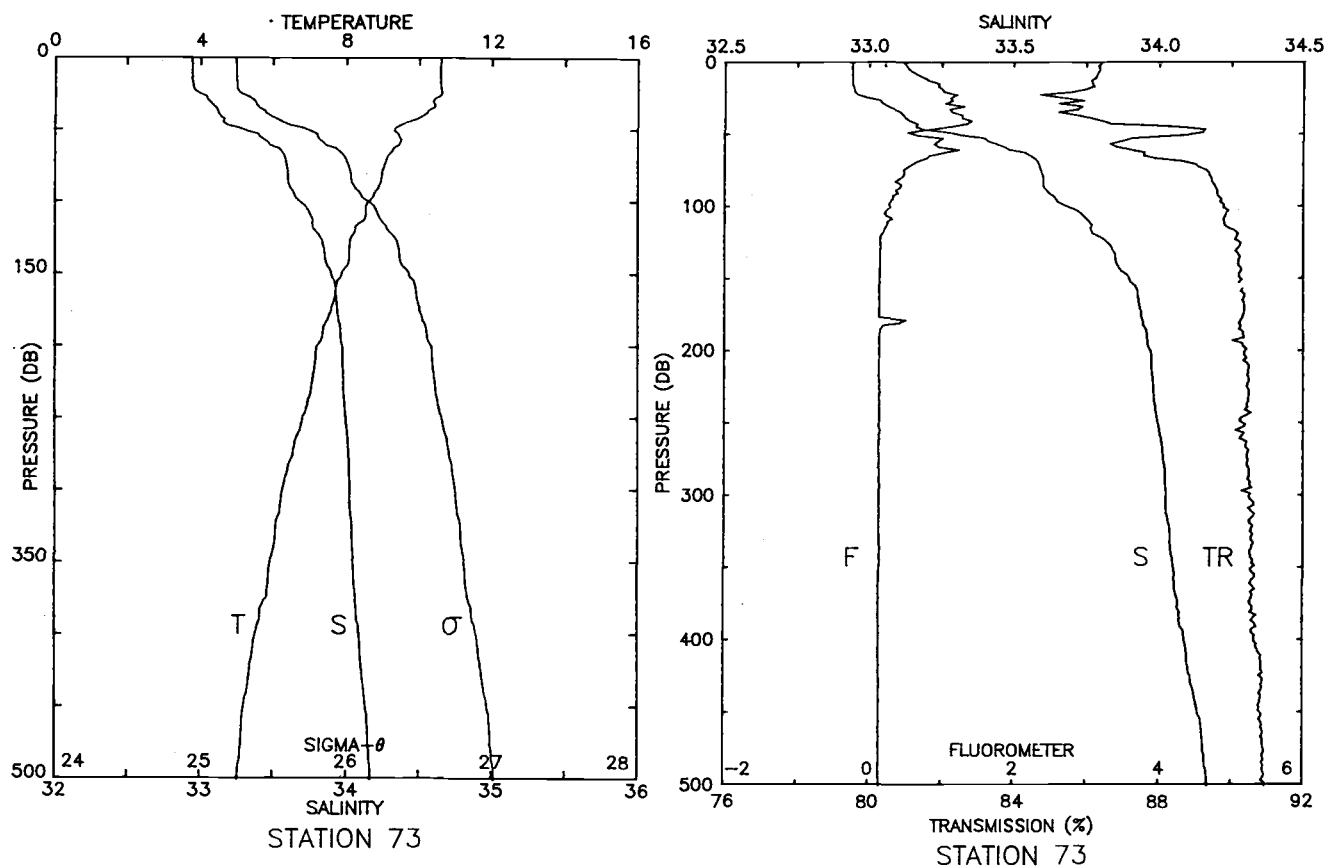
STA NO 71 LAT: 40 14.7 N LONG: 125 30.0 W
 24 MAY 1987 1443 GMT PROBE 2561 DEPTH 2240M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.204	32.987	11.204	25.173	278.4	0.003	84.8	1.44
10	11.198	32.997	11.197	25.181	277.8	0.028	84.9	1.81
20	9.938	33.364	9.936	25.686	230.0	0.053	87.5	1.12
30	9.581	33.434	9.578	25.800	219.3	0.076	87.9	0.98
40	9.341	33.507	9.337	25.896	210.4	0.097	86.3	0.80
50	9.214	33.543	9.209	25.944	206.0	0.118	88.8	0.53
60	9.097	33.587	9.090	25.998	201.1	0.138	88.9	0.52
70	9.034	33.592	9.027	26.012	199.9	0.158	89.1	0.47
80	8.852	33.660	8.844	26.093	192.4	0.178	89.0	0.38
90	8.599	33.717	8.590	26.177	184.5	0.197	89.1	0.36
100	8.211	33.798	8.201	26.300	173.0	0.215	62.7	0.18
110	8.106	33.823	8.095	26.336	169.8	0.232	89.7	0.18
120	7.875	33.874	7.863	26.410	162.9	0.248	89.9	0.16
130	7.689	33.906	7.676	26.462	158.1	0.265	90.2	0.17
140	7.566	33.925	7.553	26.495	155.1	0.280	90.1	0.15
150	7.503	33.932	7.489	26.510	153.8	0.296	90.1	0.16
175	6.954	33.976	6.938	26.621	143.5	0.333	89.9	0.15
200	6.627	33.986	6.609	26.673	138.8	0.368	82.7	0.15
225	6.389	33.991	6.369	26.709	135.7	0.402	73.9	0.15
250	6.143	34.008	6.121	26.754	131.7	0.436	90.4	0.15
300	5.762	34.044	5.737	26.830	124.8	0.500	90.6	0.14
400	5.390	34.117	5.358	26.934	116.0	0.620	90.5	0.15
500	4.942	34.200	4.903	27.052	105.6	0.731	91.0	0.14
503	4.934	34.202	4.894	27.055	105.4	0.735	91.0	0.14



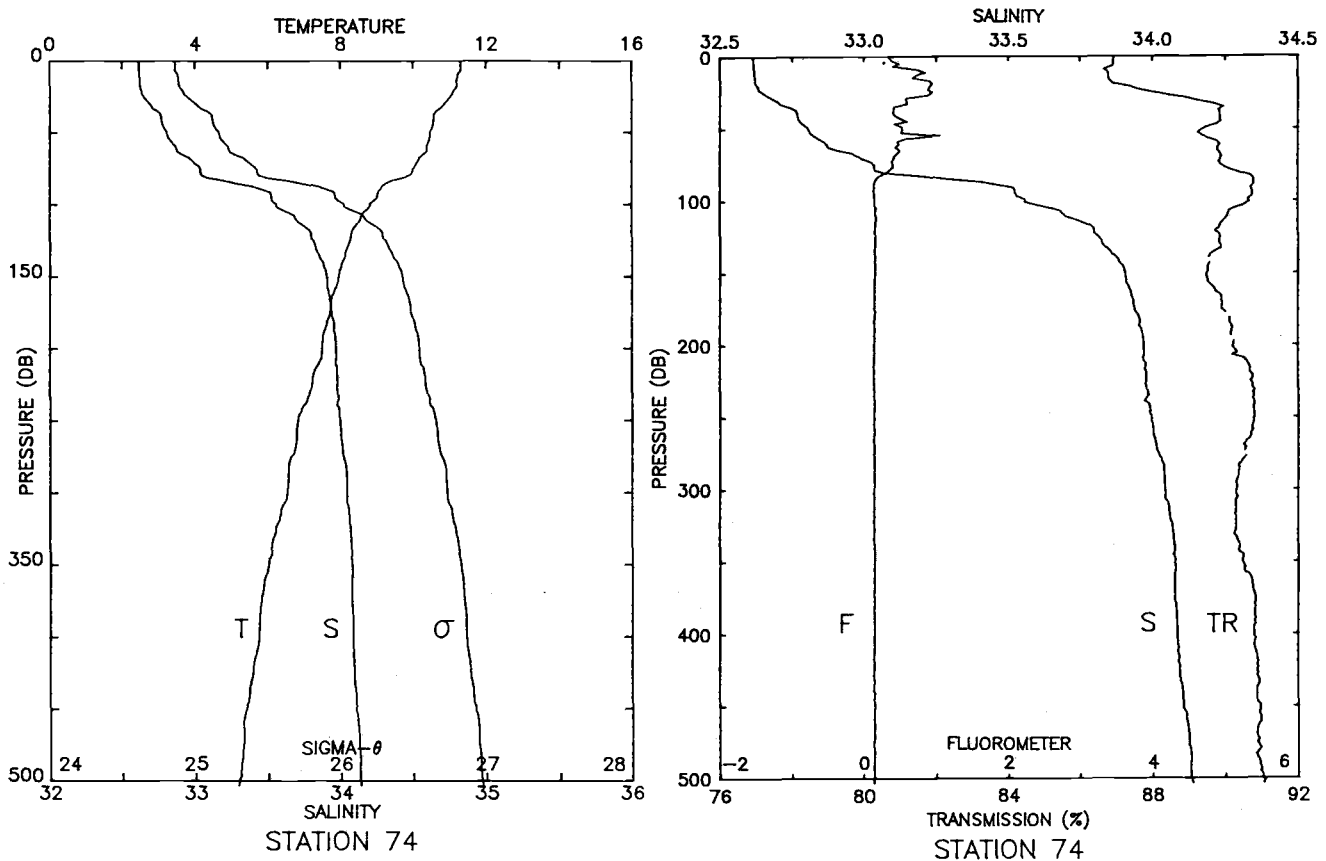
STA NO 72 LAT: 40 22.0 N LONG: 125 30.0 W
 24 MAY 1987 1554 GMT PROBE 2561 DEPTH 1639M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.422	33.011	11.422	25.152	280.4	0.003	81.2	2.36
10	11.421	33.011	11.420	25.152	280.5	0.028	80.4	2.78
20	11.416	33.011	11.414	25.153	280.7	0.056	80.3	2.74
30	11.287	33.015	11.283	25.180	278.3	0.084	81.6	2.94
40	10.544	33.130	10.539	25.401	257.5	0.111	87.9	1.21
50	10.323	33.211	10.317	25.502	248.1	0.136	88.4	0.71
60	9.518	33.429	9.512	25.806	219.3	0.160	88.8	0.48
70	8.659	33.668	8.652	26.130	188.7	0.180	90.2	0.25
80	8.431	33.737	8.423	26.219	180.4	0.198	90.2	0.18
90	8.290	33.776	8.281	26.271	175.6	0.216	90.3	0.17
100	8.210	33.792	8.200	26.296	173.4	0.234	90.3	0.17
110	8.092	33.824	8.081	26.338	169.5	0.251	90.2	0.17
120	7.819	33.891	7.807	26.431	160.8	0.267	90.2	0.16
130	7.670	33.921	7.658	26.476	156.7	0.283	82.8	0.15
140	7.578	33.936	7.565	26.502	154.4	0.299	89.7	0.16
150	7.528	33.946	7.514	26.517	153.1	0.314	90.2	0.16
175	7.260	33.967	7.244	26.572	148.3	0.352	90.1	0.15
200	7.024	33.987	7.006	26.620	144.0	0.388	79.1	0.15
225	6.730	33.997	6.710	26.668	139.7	0.424	86.4	0.16
250	6.576	34.028	6.554	26.714	135.7	0.458	82.8	0.15
300	6.150	34.039	6.124	26.778	130.1	0.524	90.7	0.15
400	5.532	34.104	5.499	26.907	118.7	0.649	90.7	0.14
500	5.033	34.167	4.993	27.015	109.2	0.763	90.9	0.15
501	5.032	34.167	4.992	27.016	109.1	0.764	90.9	0.14



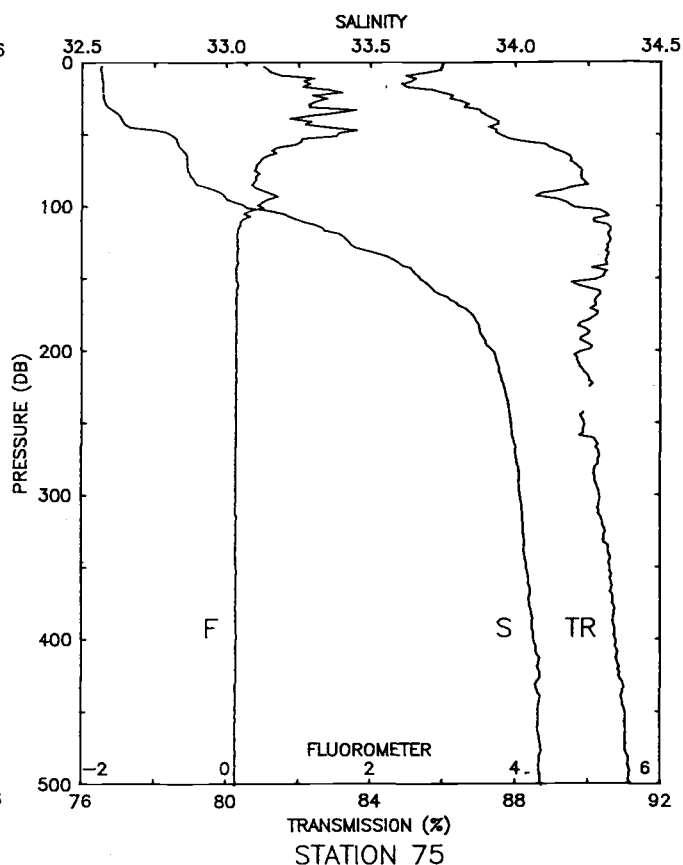
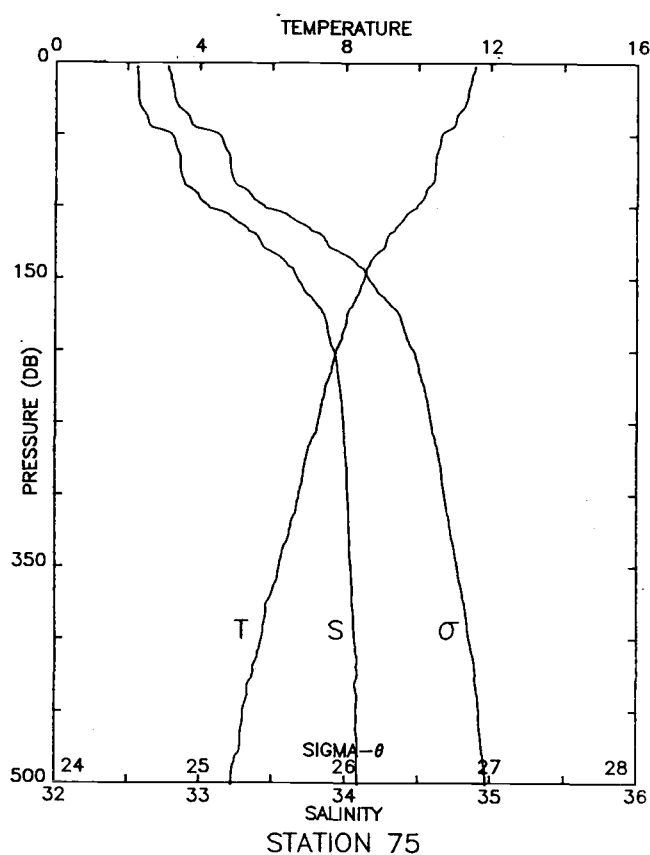
STA NO 73 LAT: 40 29.4 N LONG: 125 30.1 W
 24 MAY 1987 1709 GMT PROBE 2561 DEPTH 2823M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.596	32.941	10.596	25.243	271.6	0.003	86.4	0.48
10	10.579	32.941	10.578	25.247	271.5	0.027	86.3	0.71
20	10.592	32.949	10.590	25.251	271.4	0.054	85.8	1.02
30	10.386	33.055	10.383	25.369	260.3	0.081	85.5	1.18
40	10.133	33.134	10.129	25.473	250.6	0.107	86.3	1.35
50	9.331	33.299	9.325	25.735	225.9	0.131	88.9	0.60
60	9.461	33.477	9.454	25.853	214.8	0.153	87.0	1.11
70	9.107	33.585	9.100	25.995	201.6	0.173	88.8	0.64
80	8.977	33.602	8.969	26.029	198.5	0.193	89.4	0.46
90	8.876	33.618	8.867	26.057	196.0	0.213	89.6	0.39
100	8.615	33.685	8.605	26.150	187.3	0.232	83.2	0.29
110	8.528	33.758	8.517	26.221	180.8	0.251	84.9	0.29
120	8.227	33.785	8.215	26.288	174.6	0.268	90.0	0.18
130	8.080	33.841	8.067	26.354	168.4	0.285	89.7	0.16
140	8.061	33.856	8.048	26.369	167.2	0.302	83.1	0.16
150	7.869	33.898	7.854	26.430	161.5	0.319	80.4	0.15
175	7.590	33.940	7.573	26.504	154.8	0.358	44.1	0.15
200	7.215	33.971	7.196	26.582	147.7	0.396	90.4	0.15
225	7.071	33.982	7.050	26.610	145.4	0.432	41.1	0.15
250	6.813	33.997	6.790	26.658	141.1	0.468	90.3	0.15
300	6.268	34.025	6.242	26.752	132.6	0.537	90.5	0.15
400	5.530	34.091	5.497	26.897	119.7	0.664	90.7	0.15
500	5.043	34.170	5.003	27.017	109.1	0.777	91.0	0.16
501	5.041	34.170	5.001	27.017	109.0	0.778	91.0	0.16



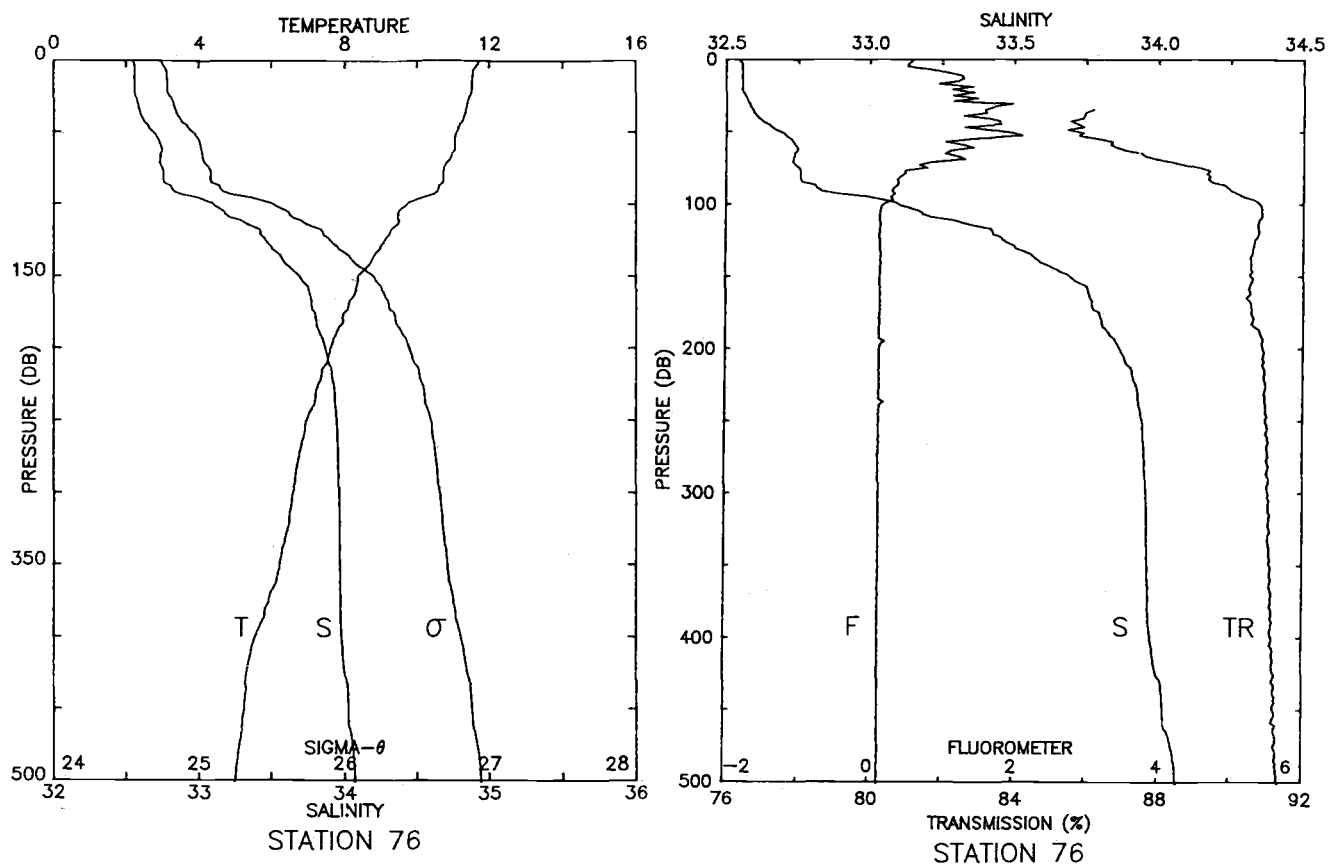
STA NO 74 LAT: 40 36.7 N LONG: 125 30.1 W
 24 MAY 1987 1822 GMT PROBE 2561 DEPTH 2860M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.314	32.614	11.314	24.863	307.9	0.003	86.9	0.35
10	11.227	32.619	11.225	24.882	306.2	0.031	86.7	0.79
20	11.132	32.627	11.130	24.906	304.2	0.061	87.1	0.93
30	10.855	32.691	10.852	25.004	295.0	0.091	89.1	0.58
40	10.555	32.769	10.550	25.117	284.5	0.120	89.9	0.41
50	10.460	32.807	10.454	25.164	280.3	0.149	89.4	0.53
60	10.370	32.867	10.363	25.226	274.5	0.176	89.8	0.47
70	10.108	32.988	10.100	25.365	261.5	0.203	89.9	0.42
80	9.844	33.060	9.835	25.465	252.2	0.229	90.3	0.33
90	9.054	33.487	9.044	25.927	208.4	0.252	81.2	0.14
100	8.802	33.558	8.791	26.022	199.5	0.272	80.3	0.15
110	8.532	33.697	8.520	26.173	185.3	0.291	87.0	0.16
120	8.292	33.800	8.280	26.290	174.4	0.309	46.1	0.16
130	8.165	33.828	8.152	26.331	170.6	0.326	89.9	0.15
140	8.033	33.879	8.019	26.391	165.1	0.343	13.9	0.16
150	7.937	33.905	7.922	26.426	161.9	0.360	50.9	0.15
175	7.701	33.937	7.684	26.486	156.6	0.399	68.1	0.14
200	7.484	33.970	7.465	26.542	151.6	0.438	90.2	0.14
225	7.210	33.979	7.189	26.588	147.5	0.475	90.7	0.14
250	6.802	33.996	6.779	26.658	141.1	0.511	90.8	0.14
300	6.515	34.044	6.489	26.734	134.4	0.580	90.3	0.14
400	5.735	34.084	5.702	26.866	122.7	0.707	90.8	0.15
500	5.192	34.134	5.152	26.971	113.5	0.824	91.1	0.14
503	5.171	34.137	5.130	26.976	113.1	0.828	91.0	0.14



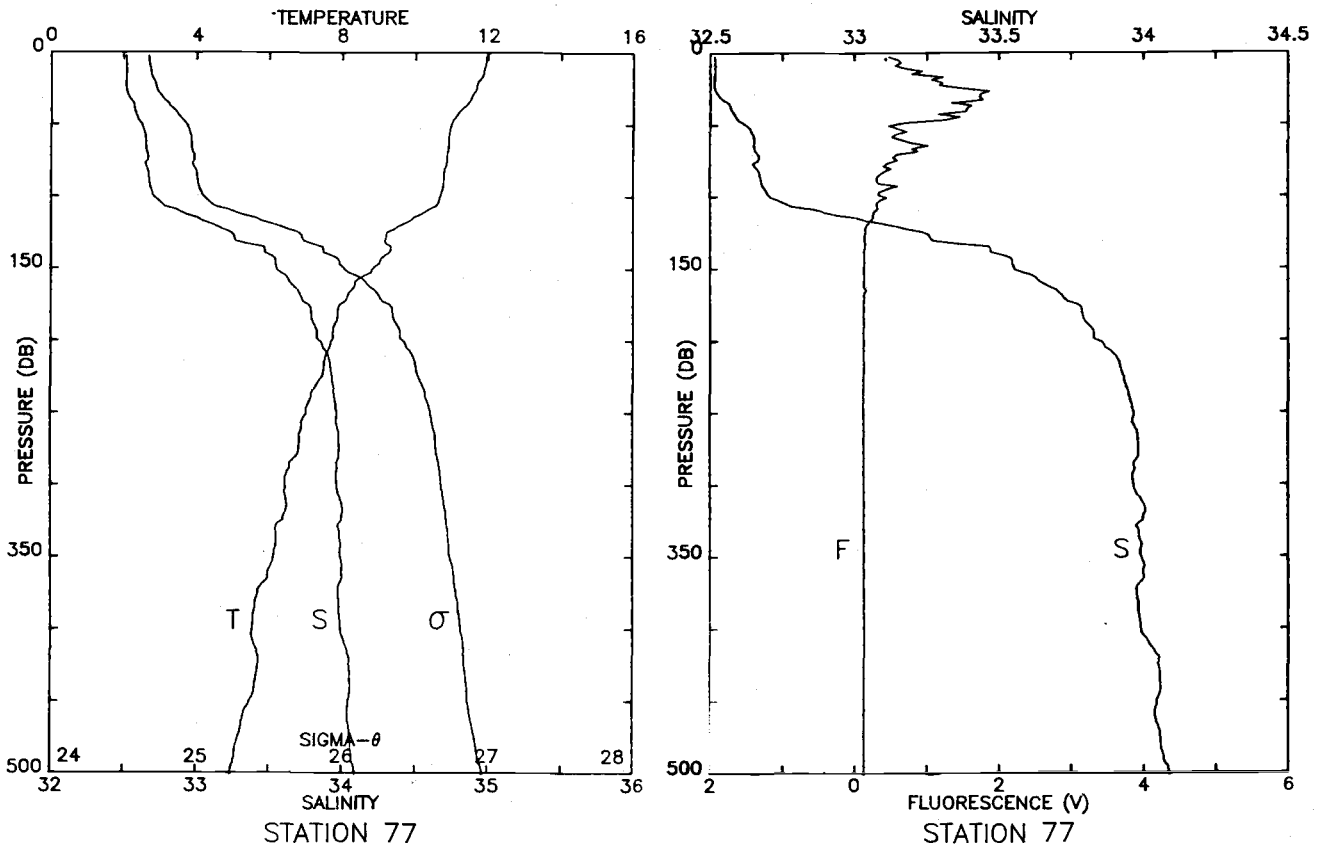
STA NO 75 LAT: 40 44.0 N LONG: 125 30.1 W
 24 MAY 1987 1946 GMT PROBE 2561 DEPTH 2859M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
3	11.569	32.566	11.569	24.780	315.8	0.009	86.0	0.52
10	11.475	32.569	11.474	24.799	314.2	0.032	85.1	0.99
20	11.376	32.573	11.373	24.820	312.4	0.063	85.9	1.51
30	11.274	32.585	11.270	24.848	309.9	0.094	86.5	1.14
40	11.026	32.639	11.021	24.934	301.9	0.125	87.4	1.02
50	10.631	32.805	10.625	25.133	283.2	0.154	87.6	1.53
60	10.536	32.843	10.529	25.179	279.1	0.182	89.0	0.67
70	10.455	32.864	10.447	25.209	276.4	0.210	89.6	0.44
80	10.427	32.880	10.418	25.227	274.9	0.237	89.8	0.41
90	10.186	32.973	10.175	25.340	264.3	0.265	89.0	0.57
100	9.958	33.065	9.947	25.450	254.0	0.290	89.6	0.48
110	9.550	33.255	9.538	25.666	233.6	0.315	90.1	0.22
120	9.172	33.396	9.159	25.838	217.5	0.337	83.2	0.16
130	8.992	33.468	8.978	25.923	209.6	0.359	90.5	0.17
140	8.653	33.601	8.639	26.080	194.8	0.379	86.4	0.17
150	8.512	33.674	8.496	26.158	187.5	0.398	79.4	0.15
175	8.032	33.853	8.015	26.371	167.5	0.442	90.3	0.15
200	7.748	33.922	7.728	26.467	158.8	0.483	89.9	0.14
225	7.453	33.963	7.432	26.542	152.0	0.522	76.1	0.14
250	7.246	33.986	7.222	26.590	147.8	0.560	83.6	0.14
300	6.738	34.018	6.711	26.685	139.3	0.631	90.3	0.14
400	5.717	34.064	5.683	26.853	124.0	0.762	90.8	0.15
500	4.886	34.089	4.847	26.971	113.2	0.880	91.2	0.14
501	4.882	34.091	4.843	26.972	113.0	0.881	91.2	0.14



STA NO 76 LAT: 40 51.3 N LONG: 125 30.0 W
 24 MAY 1987 2103 GMT PROBE 2561 DEPTH 3013M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.697	32.547	11.697	24.741	319.5	0.003	0.0	0.59
10	11.540	32.556	11.538	24.777	316.2	0.032	85.0	1.17
20	11.513	32.557	11.511	24.783	315.9	0.063	81.6	1.28
30	11.381	32.577	11.377	24.822	312.4	0.095	85.1	1.56
40	11.283	32.609	11.278	24.865	308.5	0.126	85.9	1.47
50	11.092	32.686	11.086	24.959	299.8	0.156	85.7	1.82
60	11.040	32.742	11.033	25.012	295.0	0.186	86.7	1.36
70	10.858	32.730	10.849	25.036	292.9	0.215	88.2	1.09
80	10.720	32.758	10.711	25.081	288.8	0.244	89.4	0.46
90	10.571	32.823	10.560	25.158	281.7	0.273	90.0	0.32
100	9.694	33.099	9.683	25.521	247.3	0.299	90.8	0.21
110	9.460	33.252	9.448	25.679	232.4	0.323	90.8	0.14
120	9.222	33.427	9.209	25.854	216.0	0.346	90.8	0.14
130	8.961	33.504	8.947	25.956	206.4	0.367	90.6	0.15
140	8.704	33.590	8.690	26.063	196.3	0.387	90.6	0.16
150	8.358	33.694	8.343	26.197	183.7	0.406	90.6	0.14
175	7.977	33.795	7.960	26.334	171.1	0.450	90.6	0.14
200	7.607	33.867	7.588	26.444	160.9	0.492	90.9	0.14
225	7.271	33.924	7.249	26.537	152.4	0.531	91.0	0.14
250	6.955	33.946	6.932	26.598	146.8	0.568	91.0	0.14
300	6.583	33.960	6.557	26.659	141.6	0.641	91.1	0.13
400	5.549	33.977	5.517	26.804	128.4	0.777	91.2	0.13
500	4.992	34.069	4.952	26.943	115.9	0.898	91.4	0.14
501	4.985	34.070	4.946	26.944	115.8	0.900	91.4	0.13

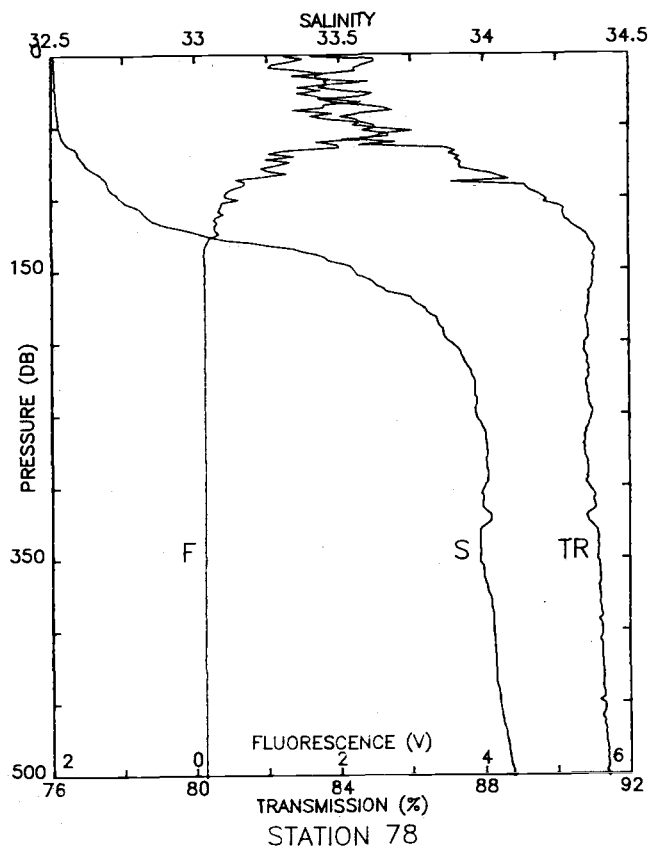
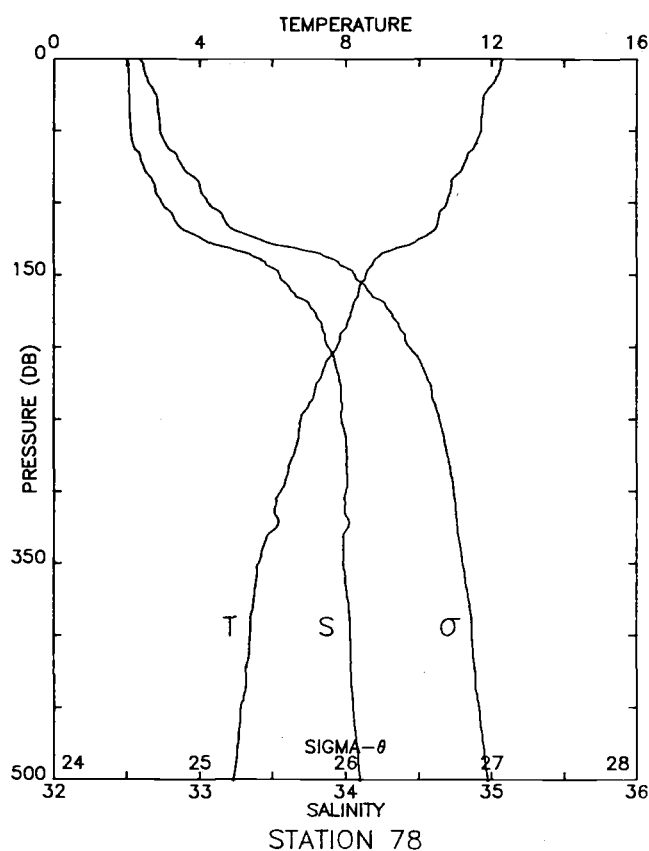


STA NO 77
24 MAY 1987

LAT: 40 58.7 N
2210 GMT PROBE 2561

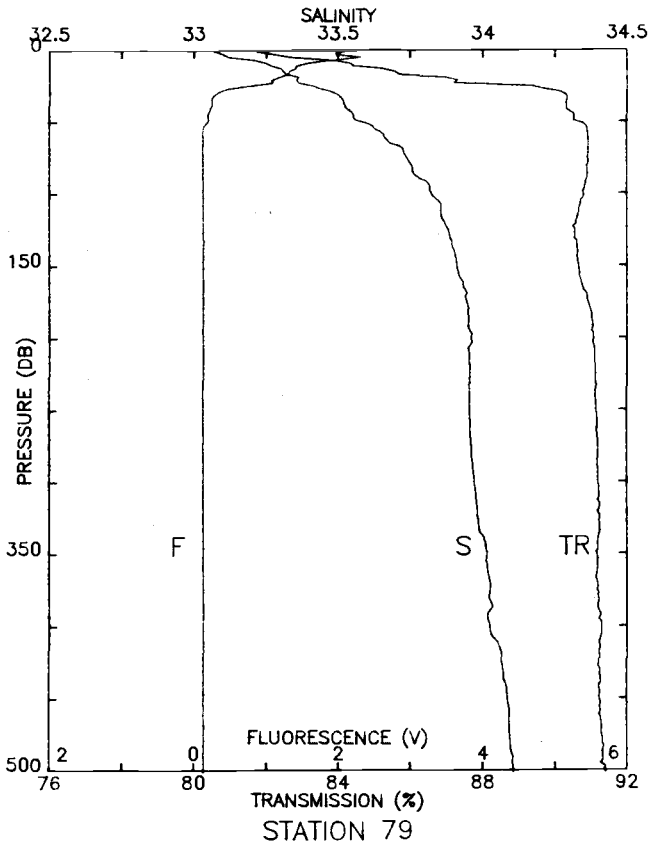
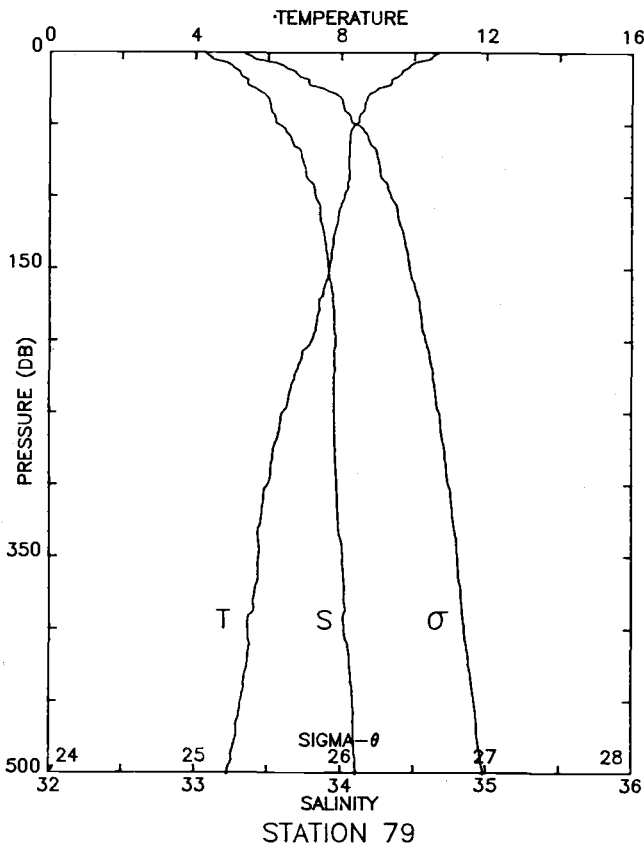
LONG: 125 30.0 W
DEPTH 3065M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	FL
3	11.952	32.517	11.952	24.671	326.2	0.010	0.48
10	11.909	32.518	11.907	24.679	325.5	0.033	0.63
20	11.740	32.515	11.737	24.709	322.9	0.065	1.14
30	11.559	32.531	11.556	24.755	318.8	0.097	1.73
40	11.247	32.576	11.242	24.845	310.4	0.129	1.54
50	10.980	32.622	10.974	24.929	302.6	0.159	0.58
60	10.917	32.654	10.910	24.965	299.4	0.189	0.59
70	10.879	32.665	10.870	24.981	298.2	0.219	0.73
80	10.819	32.659	10.809	24.987	297.7	0.249	0.46
90	10.769	32.678	10.758	25.011	295.7	0.279	0.32
100	10.674	32.708	10.663	25.050	292.1	0.308	0.40
110	10.321	32.876	10.308	25.242	274.1	0.337	0.30
120	9.617	33.122	9.604	25.551	244.7	0.363	0.18
130	9.173	33.268	9.159	25.737	227.2	0.386	0.14
140	9.231	33.493	9.216	25.904	211.5	0.408	0.14
150	8.835	33.553	8.819	26.014	201.3	0.428	0.13
175	7.946	33.773	7.929	26.321	172.3	0.475	0.13
200	7.716	33.843	7.697	26.410	164.2	0.517	0.13
225	7.454	33.932	7.432	26.518	154.3	0.556	0.12
250	7.023	33.967	7.000	26.605	146.2	0.594	0.13
300	6.449	33.965	6.422	26.681	139.4	0.665	0.13
400	5.542	33.991	5.509	26.816	127.3	0.798	0.13
500	4.938	34.090	4.899	26.965	113.7	0.920	0.13
501	4.937	34.091	4.898	26.966	113.7	0.921	0.13



STA NO 78 LAT: 41 6.0 N LONG: 125 30.0 W
 24 MAY 1987 2327 GMT PROBE 2561 DEPTH 3093M

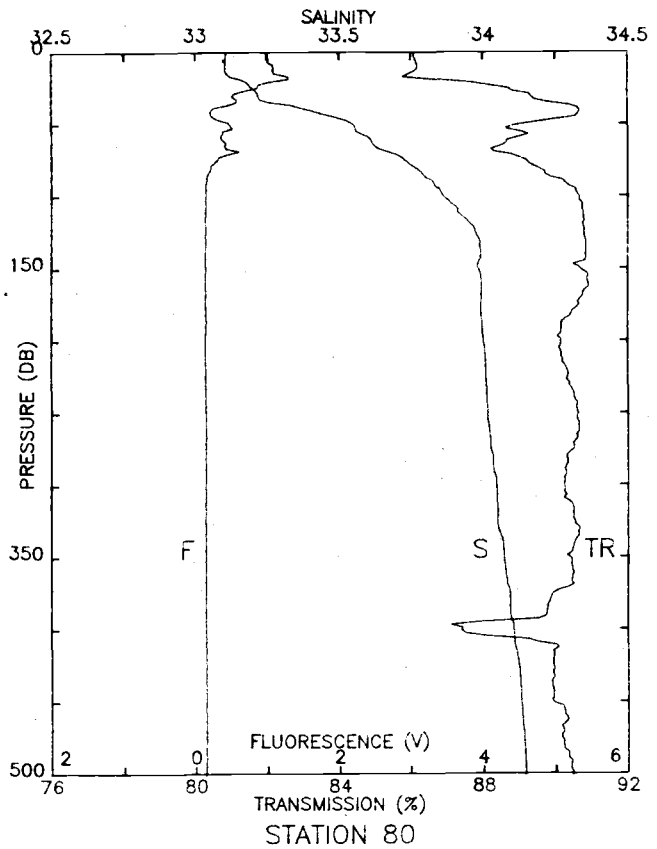
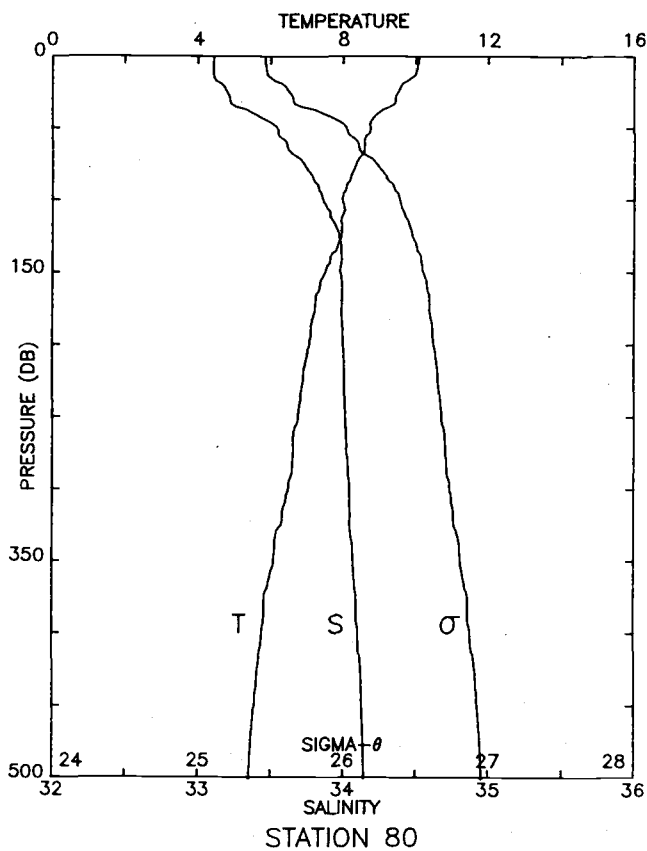
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.280	32.500	12.280	24.596	333.2	0.003	83.2	1.24
10	12.184	32.511	12.183	24.623	330.9	0.033	84.4	1.23
20	11.934	32.515	11.932	24.673	326.4	0.066	83.6	2.09
30	11.753	32.518	11.750	24.709	323.2	0.099	84.0	1.76
40	11.715	32.522	11.710	24.719	322.4	0.131	85.0	1.63
50	11.697	32.528	11.690	24.727	321.9	0.163	85.0	2.34
60	11.534	32.548	11.526	24.773	317.8	0.195	84.8	2.02
70	11.296	32.598	11.287	24.855	310.1	0.226	87.2	1.20
80	11.065	32.646	11.055	24.933	302.9	0.257	87.5	0.96
90	10.879	32.698	10.868	25.007	296.1	0.287	88.1	0.69
100	10.762	32.743	10.750	25.063	291.0	0.316	89.7	0.52
110	10.541	32.823	10.528	25.163	281.6	0.345	90.2	0.36
120	10.368	32.926	10.354	25.273	271.3	0.373	90.5	0.28
130	9.566	33.156	9.551	25.586	241.6	0.398	90.9	0.18
140	8.768	33.435	8.753	25.932	208.8	0.421	91.0	0.12
150	8.532	33.551	8.517	26.059	196.9	0.441	91.0	0.13
175	8.149	33.786	8.131	26.301	174.2	0.487	90.9	0.14
200	7.760	33.883	7.740	26.435	161.9	0.529	90.8	0.14
225	7.210	33.964	7.189	26.577	148.6	0.568	90.9	0.14
250	6.785	33.973	6.762	26.642	142.6	0.604	91.0	0.14
300	6.231	34.001	6.204	26.737	134.0	0.673	90.9	0.13
400	5.389	34.031	5.357	26.866	122.4	0.801	91.2	0.14
500	4.923	34.099	4.884	26.974	112.9	0.919	91.4	0.14
501	4.918	34.100	4.879	26.976	112.8	0.921	91.4	0.14



STA NO 79 LAT: 41 6.0 N LONG: 125 5.0 W
25 MAY 1987 0133 GMT PROBE 2561 DEPTH 2982M

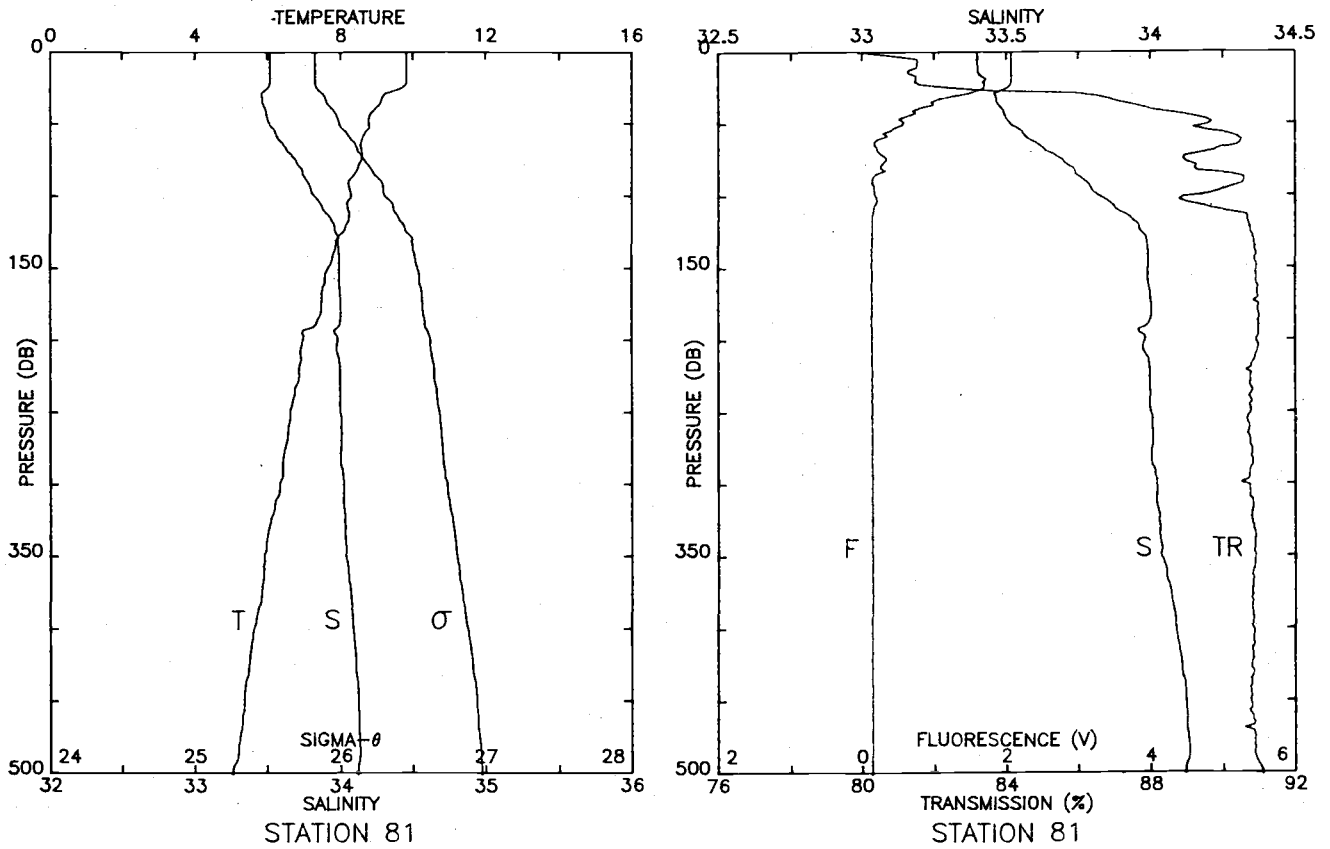
PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	10.627	33.071	10.627	25.340	262.5	0.003	81.7	2.07
10	9.851	33.259	9.850	25.618	236.2	0.025	84.4	1.50
20	9.362	33.359	9.360	25.776	221.4	0.048	87.1	1.12
30	8.732	33.487	8.729	25.976	202.5	0.069	90.2	0.33
40	8.621	33.525	8.617	26.023	198.2	0.089	90.3	0.23
50	8.412	33.578	8.407	26.097	191.4	0.109	90.6	0.19
60	8.240	33.660	8.234	26.187	183.0	0.127	90.9	0.13
70	8.216	33.727	8.209	26.244	177.8	0.145	90.9	0.12
80	8.213	33.754	8.205	26.265	175.9	0.163	90.9	0.13
90	8.185	33.794	8.176	26.301	172.7	0.181	90.9	0.13
100	8.089	33.826	8.079	26.340	169.2	0.198	90.8	0.13
110	7.946	33.856	7.936	26.385	165.1	0.214	90.7	0.13
120	7.881	33.869	7.869	26.405	163.3	0.231	90.6	0.13
130	7.782	33.888	7.769	26.434	160.7	0.247	90.5	0.13
140	7.729	33.904	7.715	26.455	158.9	0.263	90.6	0.13
150	7.669	33.912	7.654	26.470	157.7	0.279	90.7	0.13
175	7.382	33.945	7.366	26.537	151.6	0.317	90.9	0.14
200	7.183	33.960	7.165	26.577	148.1	0.355	91.1	0.13
225	6.732	33.955	6.711	26.635	142.9	0.391	91.1	0.13
250	6.411	33.955	6.389	26.677	139.1	0.427	91.1	0.13
300	6.009	33.971	5.984	26.742	133.4	0.495	91.2	0.13
400	5.459	34.024	5.427	26.852	123.8	0.623	91.3	0.13
500	4.909	34.106	4.869	26.982	112.2	0.741	91.4	0.14
501	4.906	34.107	4.867	26.982	112.1	0.742	91.4	0.14

LIN INT SAL 349-355 DB



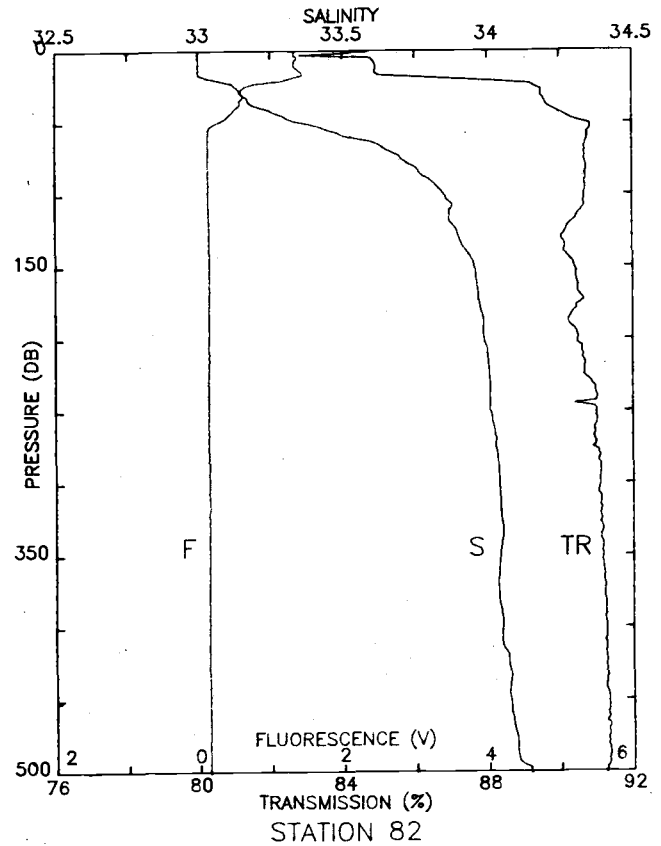
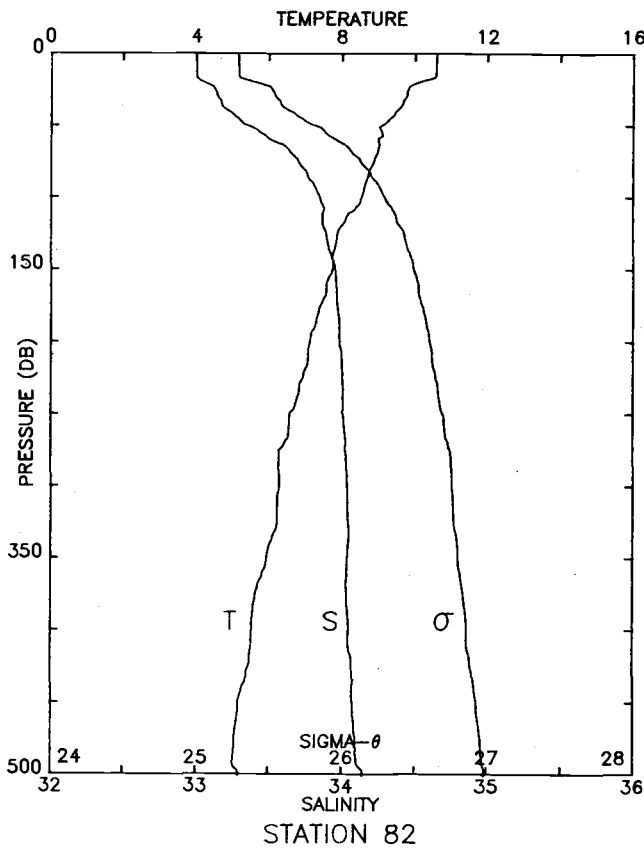
STA NO 80 LAT: 41 6.0 N LONG: 124 34.6 W
 25 MAY 1987 0401 GMT PROBE 2561 DEPTH 906M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.082	33.107	10.082	25.461	250.9	0.003	86.1	0.99
10	10.010	33.104	10.009	25.471	250.2	0.025	86.2	1.08
20	9.590	33.168	9.588	25.590	239.0	0.050	87.2	1.15
30	9.423	33.219	9.420	25.657	232.9	0.073	89.3	0.52
40	8.924	33.388	8.920	25.869	212.9	0.096	90.7	0.23
50	8.736	33.548	8.730	26.024	198.4	0.116	89.1	0.48
60	8.557	33.608	8.551	26.098	191.5	0.136	88.8	0.36
70	8.438	33.689	8.431	26.180	183.9	0.155	88.5	0.53
80	8.248	33.766	8.240	26.270	175.5	0.173	89.5	0.21
90	8.076	33.828	8.067	26.344	168.6	0.190	90.3	0.15
100	7.965	33.863	7.955	26.388	164.6	0.206	90.7	0.14
110	7.986	33.912	7.975	26.423	161.4	0.223	90.8	0.14
120	7.950	33.958	7.938	26.465	157.7	0.239	90.8	0.14
130	7.853	33.985	7.840	26.500	154.5	0.254	90.8	0.14
140	7.637	33.990	7.624	26.536	151.2	0.270	90.9	0.13
150	7.484	33.982	7.470	26.551	149.9	0.285	90.7	0.14
175	7.217	33.991	7.201	26.597	145.9	0.321	90.7	0.14
200	7.064	34.001	7.045	26.626	143.5	0.358	90.1	0.14
225	6.898	34.010	6.877	26.656	141.0	0.393	90.3	0.14
250	6.746	34.014	6.724	26.680	139.0	0.428	90.6	0.14
300	6.488	34.045	6.462	26.739	134.0	0.496	90.2	0.14
400	5.765	34.106	5.731	26.880	121.5	0.624	87.4	0.14
500	5.410	34.146	5.369	26.956	115.3	0.741	90.5	0.14
501	5.409	34.146	5.367	26.956	115.2	0.742	90.5	0.14



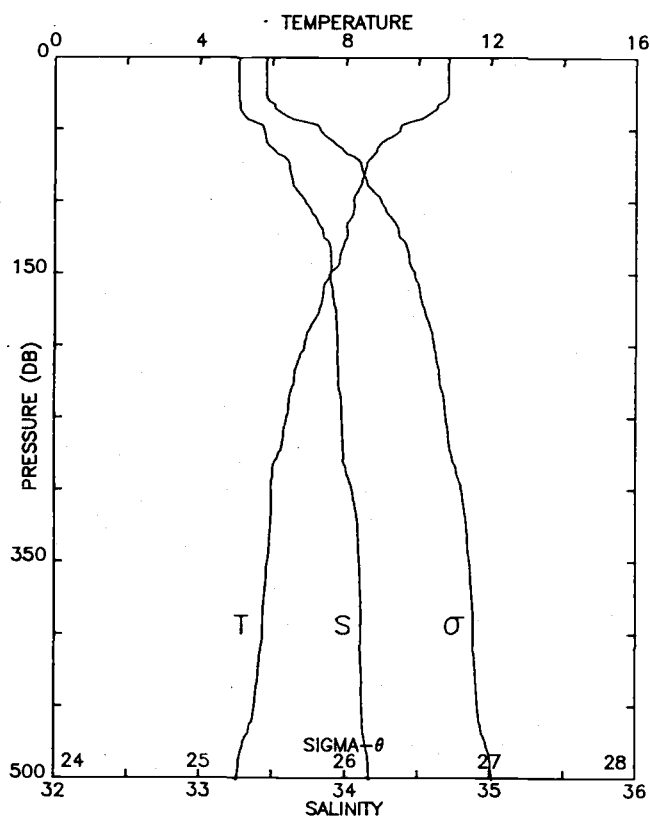
STA NO 81 LAT: 40 44.0 N LONG: 124 42.0 W
 25 MAY 1987 0852 GMT PROBE 2561 DEPTH 958M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
	TEMP		THETA					
1	9.830	33.517	9.830	25.823	216.5	0.002	80.2	1.59
10	9.830	33.517	9.829	25.823	216.7	0.022	81.5	1.60
20	9.831	33.518	9.829	25.823	216.9	0.043	81.5	1.70
30	9.184	33.461	9.181	25.885	211.2	0.065	86.2	1.38
40	8.932	33.487	8.928	25.945	205.7	0.086	88.0	0.76
50	8.772	33.515	8.767	25.992	201.3	0.106	89.6	0.57
60	8.591	33.575	8.585	26.067	194.4	0.126	90.5	0.28
70	8.580	33.651	8.573	26.129	188.8	0.145	89.5	0.23
80	8.471	33.726	8.463	26.204	181.8	0.163	89.2	0.26
90	8.212	33.776	8.203	26.283	174.4	0.181	90.6	0.14
100	8.283	33.823	8.273	26.309	172.1	0.199	89.2	0.18
110	8.211	33.887	8.200	26.370	166.5	0.216	90.0	0.16
120	8.134	33.957	8.122	26.437	160.4	0.232	90.7	0.14
130	7.885	33.985	7.872	26.496	154.9	0.248	90.8	0.13
140	7.799	33.992	7.785	26.514	153.4	0.263	90.9	0.13
150	7.653	33.992	7.639	26.535	151.5	0.278	90.9	0.13
175	7.472	34.003	7.456	26.570	148.5	0.316	91.0	0.14
200	6.967	33.981	6.949	26.623	143.7	0.353	90.9	0.14
225	6.865	33.997	6.845	26.650	141.5	0.388	90.8	0.14
250	6.624	34.001	6.602	26.686	138.4	0.423	90.8	0.14
300	6.349	34.022	6.322	26.739	133.9	0.491	90.6	0.14
400	5.635	34.089	5.602	26.882	121.2	0.619	90.9	0.14
500	5.049	34.120	5.010	26.976	112.8	0.735	91.1	0.14
501	5.045	34.120	5.005	26.977	112.8	0.737	91.1	0.14

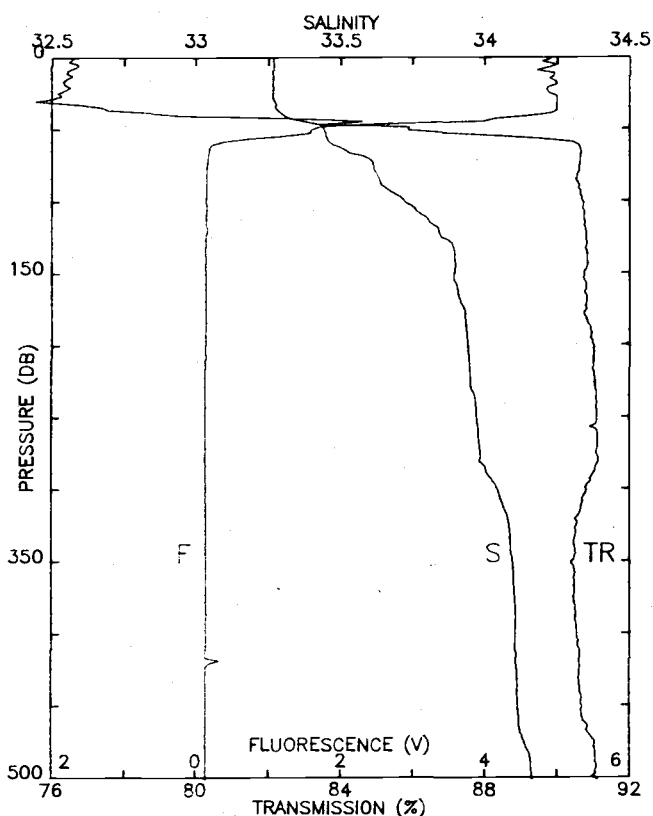


STA NO 82 LAT: 40 43.9 N LONG: 125 5.1 W
25 MAY 1987 1059 GMT PROBE 2561 DEPTH 2644M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	10.596	32.999	10.596	25.289	267.3	0.003	84.7	1.33
10	10.586	33.000	10.585	25.291	267.3	0.027	84.9	1.32
20	10.122	33.051	10.120	25.411	256.1	0.053	87.4	1.22
30	9.751	33.151	9.747	25.550	243.0	0.078	89.5	0.60
40	9.494	33.227	9.490	25.652	233.5	0.102	89.8	0.52
50	9.077	33.360	9.071	25.823	217.5	0.124	90.7	0.26
60	8.982	33.522	8.976	25.965	204.2	0.146	90.8	0.13
70	8.935	33.666	8.928	26.085	193.0	0.165	90.7	0.14
80	8.761	33.744	8.753	26.174	184.7	0.184	90.7	0.13
90	8.630	33.805	8.621	26.242	178.4	0.202	90.7	0.13
100	8.526	33.852	8.516	26.295	173.6	0.220	90.7	0.13
110	8.252	33.873	8.241	26.353	168.2	0.237	90.6	0.14
120	7.973	33.875	7.961	26.396	164.2	0.254	90.3	0.15
130	7.846	33.903	7.833	26.437	160.5	0.270	90.0	0.15
140	7.754	33.931	7.740	26.473	157.2	0.286	90.1	0.15
150	7.733	33.954	7.718	26.494	155.4	0.301	90.4	0.14
175	7.404	33.972	7.387	26.555	149.9	0.340	90.6	0.14
200	7.131	33.987	7.112	26.606	145.4	0.376	90.5	0.14
225	6.946	34.005	6.925	26.645	142.0	0.412	90.7	0.13
250	6.587	34.008	6.564	26.696	137.3	0.447	91.0	0.13
300	6.294	34.038	6.268	26.758	132.0	0.514	91.1	0.14
400	5.545	34.049	5.512	26.861	123.0	0.642	91.3	0.14
500	5.178	34.146	5.138	26.982	112.4	0.760	91.3	0.14
501	5.184	34.147	5.144	26.983	112.4	0.761	91.2	0.14



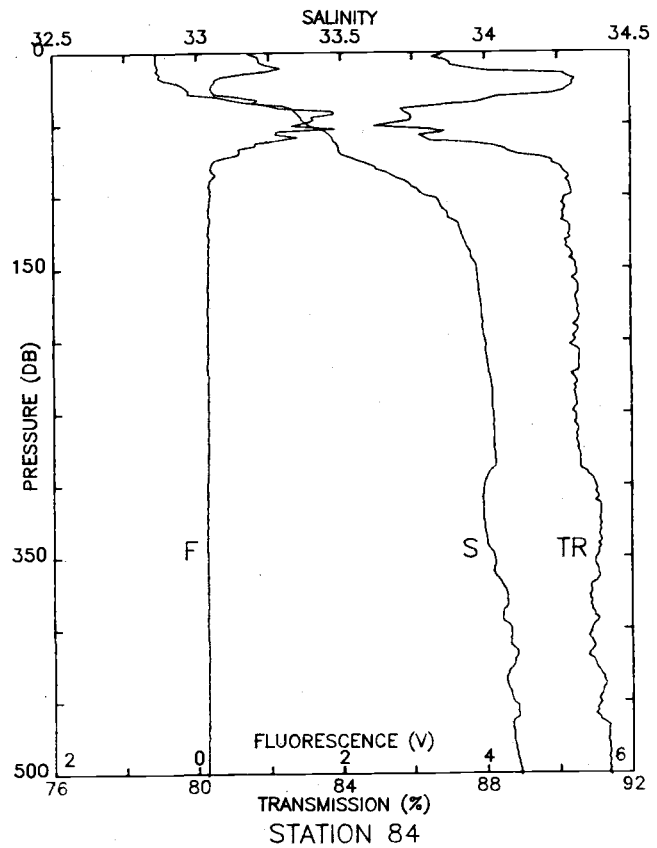
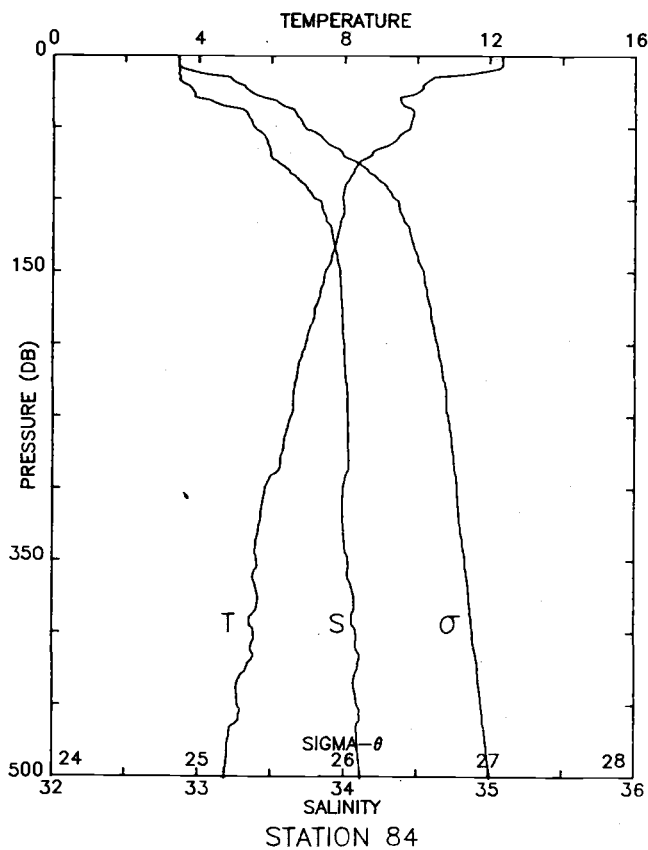
STATION 83



STATION 83

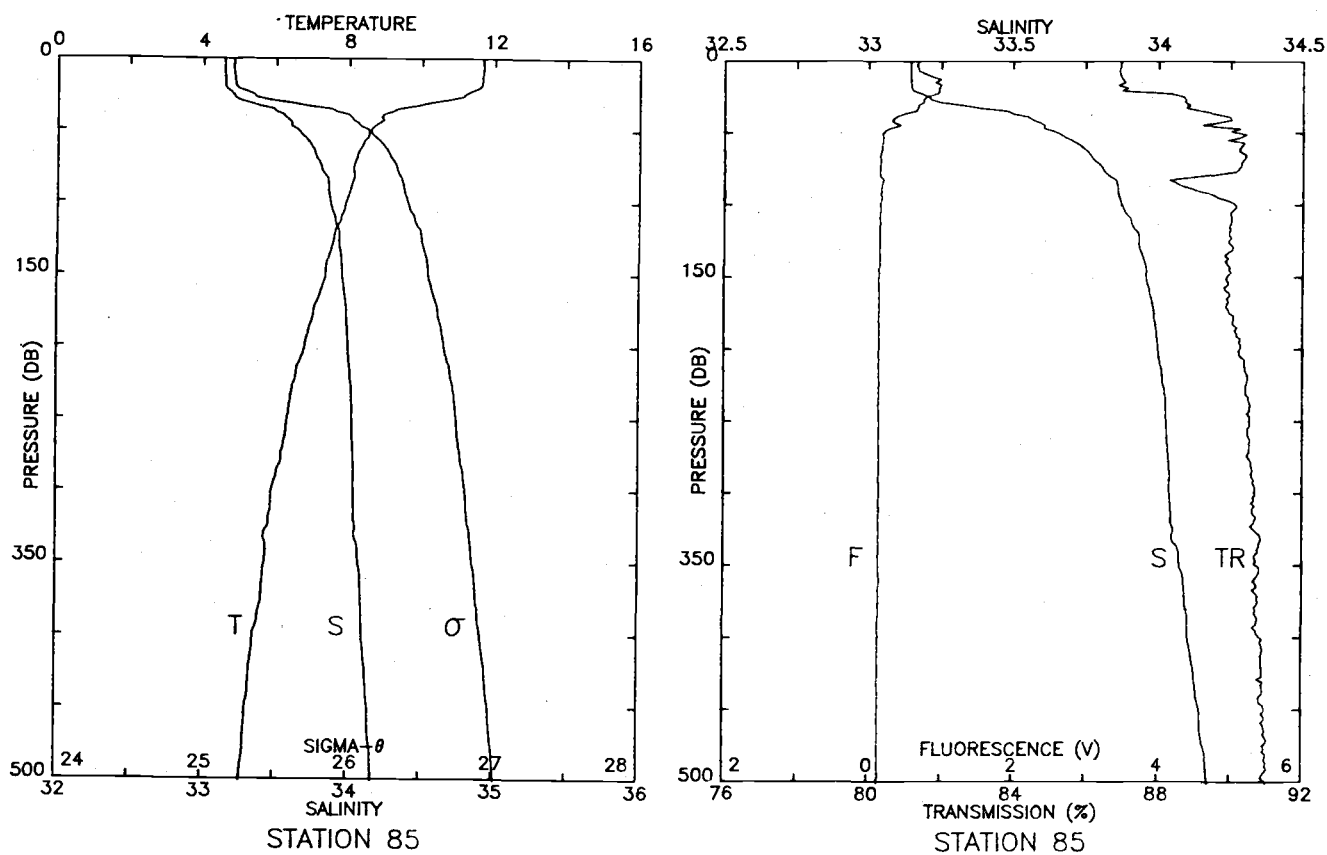
STA NO 83 LAT: 40 21.9 N LONG: 125 5.1 W
 25 MAY 1987 1317 GMT PROBE 2561 DEPTH 1615M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.830	33.266	10.830	25.456	251.4	0.003	76.6	4.91
10	10.831	33.265	10.830	25.455	251.7	0.025	76.4	4.83
20	10.832	33.266	10.829	25.456	251.9	0.050	76.4	4.93
30	10.737	33.269	10.734	25.475	250.3	0.075	75.8	5.00
40	10.265	33.302	10.260	25.582	240.2	0.100	79.2	4.77
50	9.480	33.441	9.474	25.822	217.6	0.123	85.9	1.63
60	8.945	33.465	8.938	25.926	207.8	0.144	90.5	0.32
70	8.668	33.590	8.660	26.067	194.6	0.164	90.6	0.17
80	8.506	33.622	8.498	26.117	190.0	0.183	90.6	0.15
90	8.374	33.650	8.365	26.159	186.2	0.202	90.6	0.15
100	8.204	33.722	8.194	26.242	178.6	0.221	90.7	0.14
110	8.164	33.788	8.153	26.300	173.2	0.238	90.7	0.15
120	8.030	33.841	8.018	26.361	167.5	0.255	90.8	0.17
130	7.930	33.888	7.917	26.413	162.7	0.272	90.8	0.14
140	7.818	33.897	7.804	26.436	160.7	0.288	90.8	0.14
150	7.559	33.895	7.545	26.473	157.3	0.304	90.8	0.14
175	7.265	33.931	7.249	26.542	151.1	0.342	90.8	0.14
200	6.859	33.943	6.841	26.608	145.1	0.379	91.0	0.14
225	6.594	33.952	6.574	26.651	141.3	0.415	91.0	0.14
250	6.393	33.974	6.372	26.694	137.4	0.450	91.1	0.13
300	5.975	34.044	5.950	26.804	127.5	0.516	90.8	0.14
400	5.735	34.106	5.701	26.884	121.1	0.640	90.5	0.14
500	5.036	34.165	4.997	27.014	109.3	0.756	91.0	0.14
501	5.030	34.167	4.990	27.016	109.1	0.758	91.1	0.14



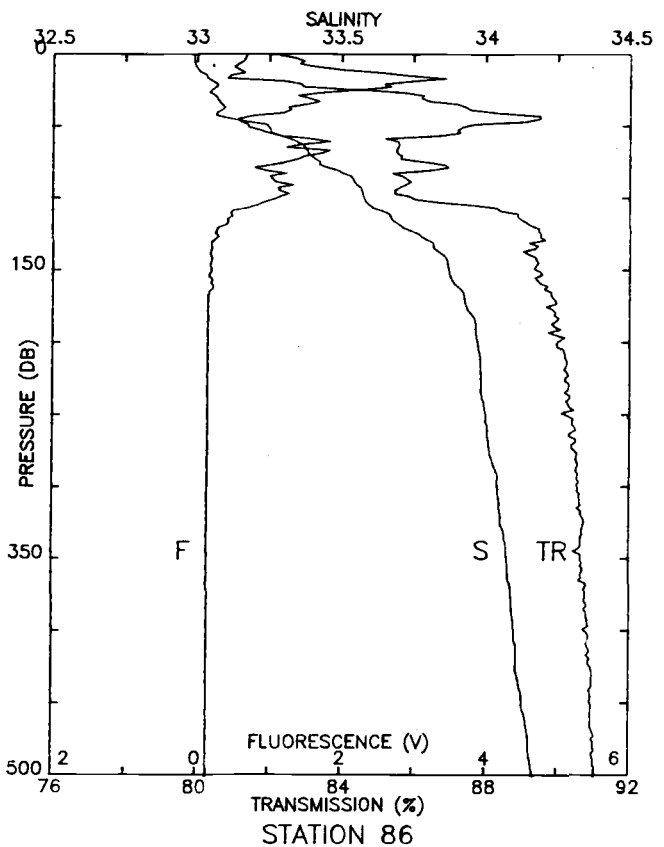
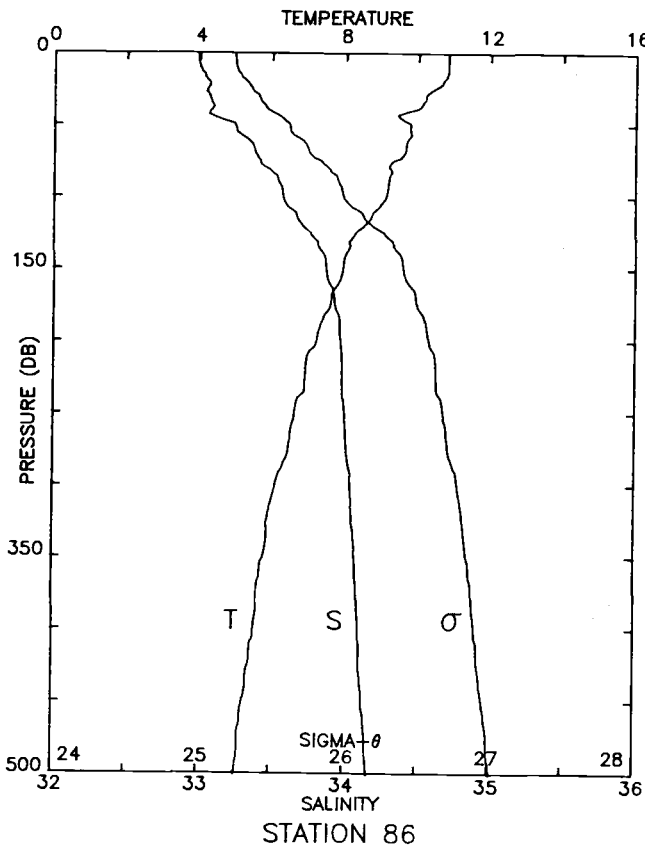
STA NO 84 LAT: 40 0.0 N LONG: 125 5.1 W
 25 MAY 1987 1539 GMT PROBE 2561 DEPTH 1572M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.346	32.859	12.346	24.862	308.0	0.003	86.8	0.73
10	12.058	32.865	12.057	24.921	302.5	0.031	87.3	1.08
20	10.180	32.909	10.178	25.290	267.6	0.059	90.4	0.25
30	9.516	33.022	9.513	25.488	248.9	0.085	89.1	0.42
40	9.902	33.333	9.898	25.668	232.1	0.109	85.7	1.51
50	9.771	33.383	9.765	25.729	226.5	0.132	85.1	1.40
60	9.326	33.469	9.319	25.869	213.3	0.154	86.4	1.26
70	8.654	33.498	8.647	25.998	201.2	0.174	88.8	0.58
80	8.237	33.620	8.229	26.156	186.3	0.194	90.1	0.19
90	8.000	33.729	7.991	26.278	174.9	0.212	90.2	0.18
100	7.937	33.811	7.928	26.351	168.1	0.229	90.3	0.18
110	7.961	33.860	7.950	26.387	164.9	0.245	90.1	0.16
120	7.841	33.907	7.829	26.441	159.9	0.262	90.3	0.16
130	7.747	33.925	7.734	26.469	157.5	0.278	90.3	0.17
140	7.629	33.949	7.615	26.505	154.2	0.293	90.4	0.16
150	7.462	33.969	7.448	26.544	150.5	0.308	90.5	0.16
175	7.180	33.984	7.164	26.596	145.9	0.346	90.5	0.15
200	6.930	33.998	6.912	26.642	141.9	0.382	90.5	0.15
225	6.676	34.012	6.656	26.687	137.9	0.417	90.4	0.15
250	6.527	34.024	6.504	26.717	135.4	0.451	90.4	0.15
300	5.827	33.991	5.802	26.780	129.6	0.517	91.0	0.14
400	5.532	34.083	5.499	26.890	120.3	0.642	90.9	0.14
500	4.723	34.117	4.684	27.011	109.2	0.757	91.4	0.13
501	4.722	34.117	4.683	27.011	109.2	0.758	91.4	0.13



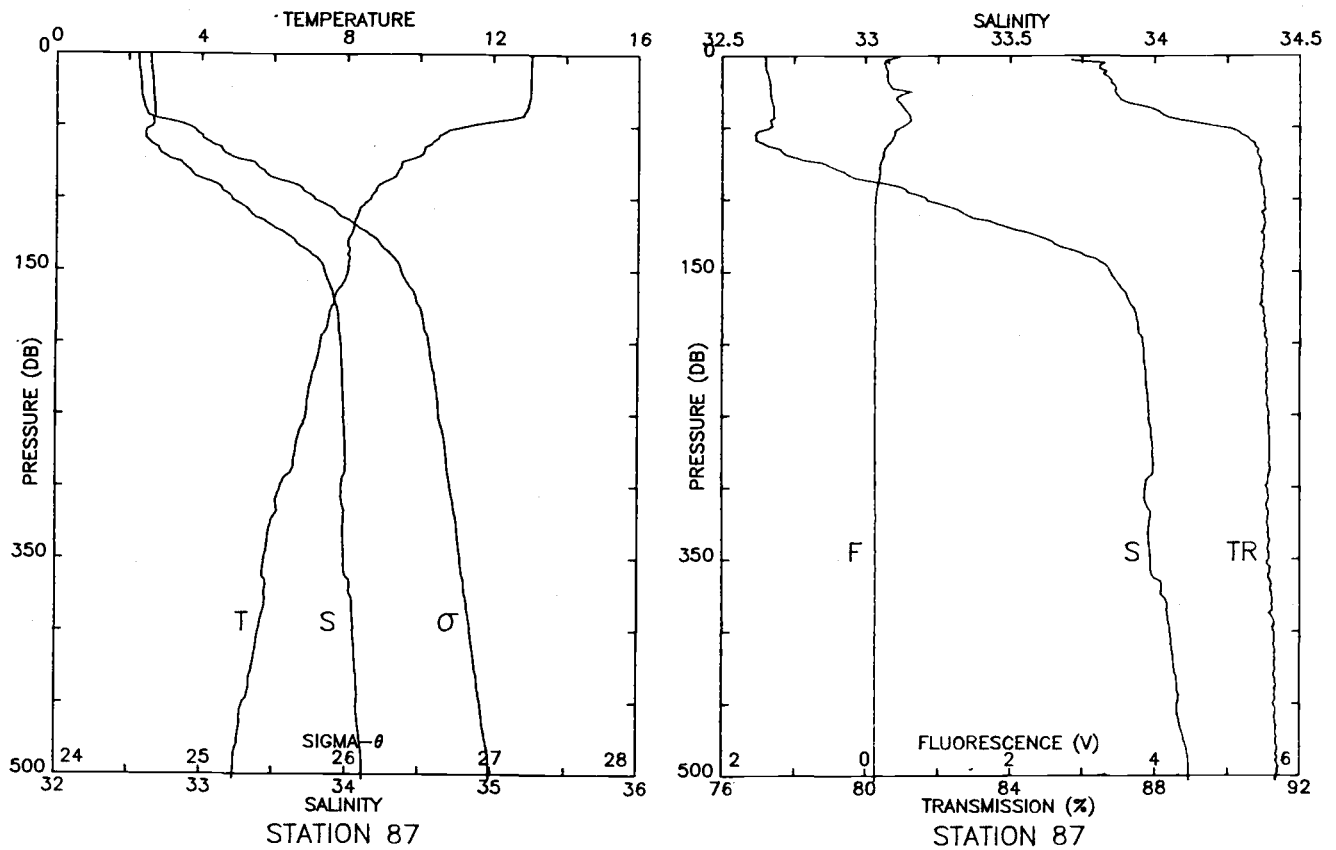
STA NO 85 LAT: 40 0.0 N LONG: 125 30.0 W
 25 MAY 1987 1759 GMT PROBE 2561 DEPTH 2992M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.674	33.143	11.674	25.208	275.0	0.003	87.0	0.68
10	11.673	33.143	11.671	25.209	275.2	0.028	87.0	0.83
20	11.596	33.150	11.593	25.228	273.5	0.055	87.1	0.97
30	10.489	33.281	10.486	25.528	245.2	0.081	88.8	0.72
40	8.911	33.559	8.907	26.004	200.0	0.103	90.0	0.36
50	8.567	33.653	8.562	26.132	188.1	0.123	90.2	0.20
60	8.355	33.740	8.349	26.232	178.7	0.141	90.3	0.18
70	8.184	33.786	8.177	26.294	173.0	0.158	90.3	0.17
80	8.127	33.832	8.119	26.339	168.9	0.175	89.3	0.16
90	8.041	33.862	8.032	26.375	165.7	0.192	89.0	0.17
100	7.907	33.875	7.897	26.405	163.0	0.209	90.1	0.16
110	7.783	33.906	7.772	26.448	159.1	0.225	90.0	0.16
120	7.618	33.932	7.607	26.493	155.0	0.240	89.9	0.15
130	7.532	33.936	7.519	26.508	153.7	0.256	90.1	0.15
140	7.419	33.953	7.406	26.538	150.9	0.271	89.9	0.15
150	7.375	33.960	7.361	26.550	150.0	0.286	89.9	0.15
175	7.054	33.988	7.038	26.616	144.0	0.323	90.0	0.15
200	6.813	34.000	6.795	26.659	140.2	0.358	90.3	0.15
225	6.507	34.020	6.488	26.715	135.1	0.393	90.4	0.15
250	6.340	34.029	6.318	26.745	132.6	0.426	90.5	0.15
300	5.912	34.041	5.887	26.809	127.0	0.491	90.7	0.15
400	5.437	34.107	5.405	26.920	117.4	0.614	90.9	0.15
500	5.078	34.174	5.039	27.016	109.1	0.727	91.0	0.13
501	5.077	34.175	5.037	27.017	109.1	0.728	91.0	0.14



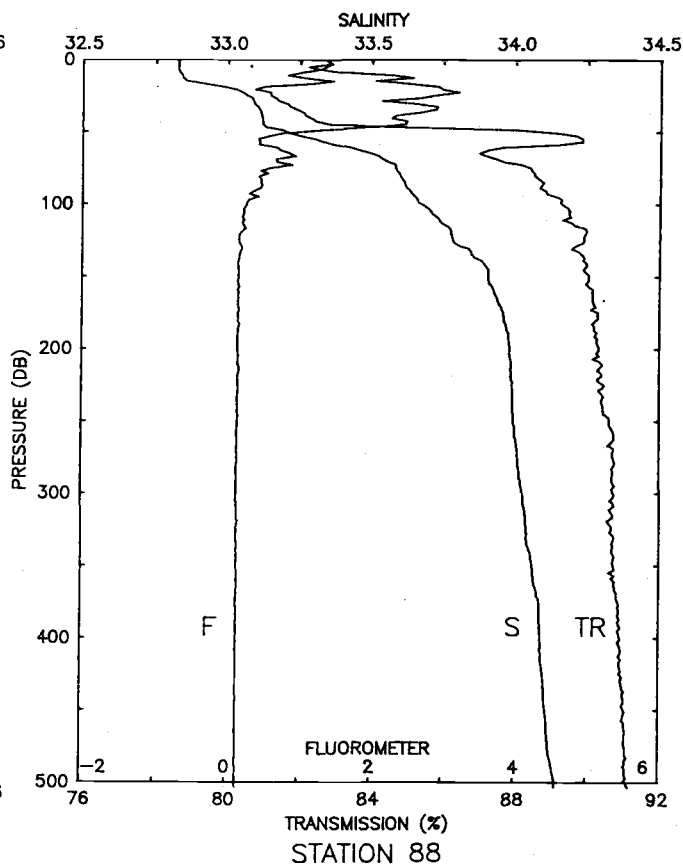
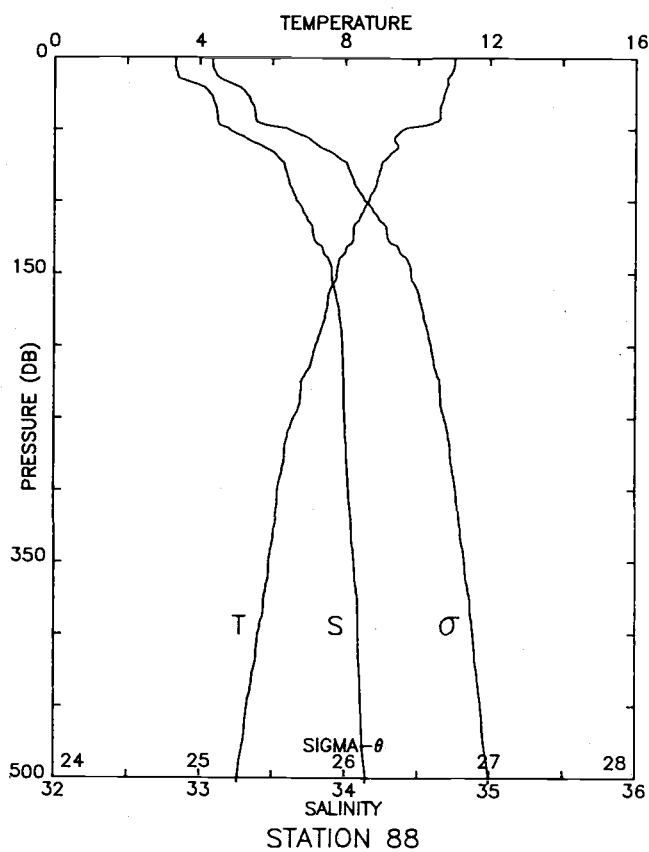
STA NO 86 LAT: 40 0.0 N LONG: 125 49.9 W
25 MAY 1987 1958 GMT PROBE 2561 DEPTH 3664M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	10.832	32.987	10.831	25.238	272.1	0.003	81.4	1.14
10	10.817	33.000	10.816	25.251	271.1	0.027	81.1	1.82
20	10.674	33.061	10.672	25.324	264.4	0.054	82.6	2.78
30	10.204	33.066	10.200	25.409	256.5	0.080	86.2	1.47
40	9.820	33.079	9.816	25.483	249.7	0.105	87.9	1.24
50	9.781	33.244	9.775	25.619	236.9	0.130	87.5	0.71
60	9.724	33.332	9.718	25.697	229.8	0.153	85.4	1.70
70	9.606	33.391	9.599	25.762	223.7	0.176	85.6	1.60
80	9.219	33.469	9.210	25.887	212.0	0.198	86.7	0.87
90	9.179	33.550	9.170	25.956	205.7	0.218	85.9	1.21
100	9.112	33.579	9.101	25.990	202.6	0.239	86.0	1.11
110	8.799	33.654	8.787	26.098	192.5	0.259	88.7	0.48
120	8.523	33.711	8.511	26.185	184.3	0.278	89.4	0.34
130	8.154	33.806	8.141	26.315	172.1	0.295	89.4	0.22
140	8.006	33.854	7.992	26.375	166.5	0.312	89.3	0.18
150	7.935	33.872	7.921	26.400	164.4	0.329	89.4	0.19
175	7.599	33.934	7.582	26.498	155.4	0.369	89.7	0.15
200	7.228	33.973	7.210	26.581	147.8	0.406	90.0	0.15
225	6.931	33.983	6.910	26.630	143.4	0.443	90.2	0.15
250	6.645	34.001	6.622	26.683	138.7	0.478	90.2	0.15
300	6.126	34.043	6.100	26.784	129.4	0.545	90.6	0.15
400	5.542	34.101	5.509	26.903	119.1	0.669	90.8	0.14
500	5.045	34.169	5.005	27.016	109.1	0.783	91.1	0.14
501	5.042	34.169	5.002	27.017	109.1	0.784	91.0	0.14



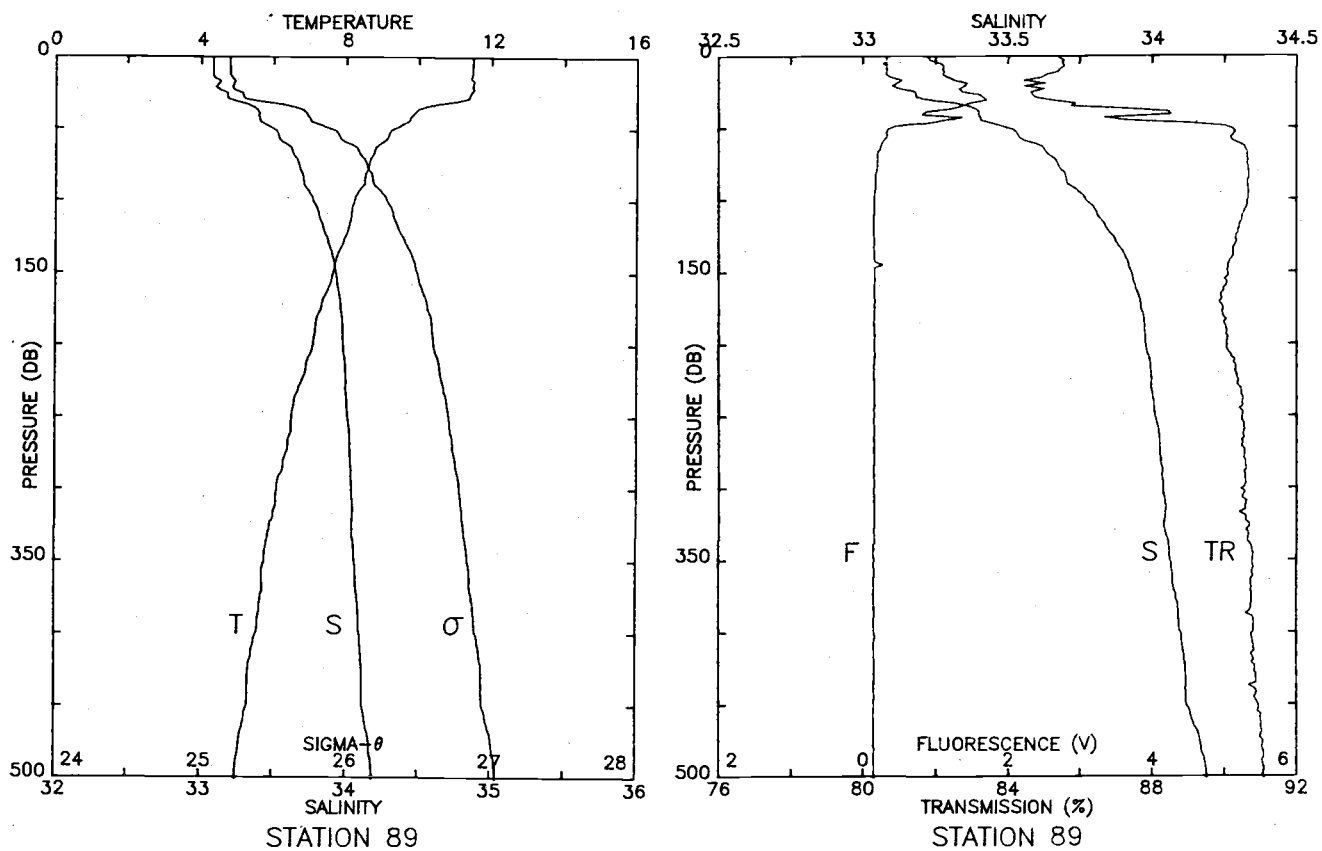
STA NO 87 LAT: 40 0.0 N LONG: 126 9.9 W
 25 MAY 1987 2202 GMT PROBE 2561 DEPTH 4064M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	13.039	32.649	13.038	24.565	336.2	0.003	46.7	0.46
10	13.023	32.651	13.022	24.570	336.0	0.034	86.6	0.30
20	13.012	32.664	13.010	24.583	335.0	0.067	86.8	0.33
30	12.994	32.669	12.990	24.590	334.6	0.101	87.1	0.43
40	12.869	32.677	12.864	24.621	331.9	0.134	88.2	0.59
50	11.329	32.664	11.322	24.900	305.5	0.166	89.9	0.49
60	10.423	32.627	10.417	25.030	293.2	0.196	90.7	0.35
70	10.034	32.738	10.026	25.182	278.9	0.225	90.9	0.24
80	9.425	32.911	9.417	25.417	256.6	0.251	90.9	0.19
90	8.934	33.092	8.924	25.637	235.9	0.276	91.0	0.16
100	8.635	33.211	8.625	25.776	222.8	0.299	91.0	0.14
110	8.298	33.340	8.287	25.928	208.4	0.320	91.0	0.13
120	8.165	33.500	8.153	26.074	194.8	0.341	91.0	0.13
130	8.007	33.649	7.994	26.214	181.6	0.359	91.0	0.12
140	8.035	33.778	8.021	26.311	172.6	0.377	90.9	0.13
150	8.009	33.846	7.994	26.368	167.4	0.394	91.0	0.13
175	7.573	33.926	7.556	26.496	155.6	0.434	91.0	0.13
200	7.277	33.959	7.258	26.563	149.5	0.473	91.1	0.13
225	7.044	33.970	7.024	26.604	145.9	0.509	91.1	0.14
250	6.891	33.980	6.868	26.634	143.5	0.546	91.1	0.13
300	6.202	33.966	6.176	26.713	136.2	0.615	91.1	0.14
400	5.615	34.052	5.581	26.855	123.6	0.745	91.3	0.13
500	4.928	34.118	4.888	26.988	111.6	0.862	91.4	0.13
503	4.923	34.118	4.883	26.989	111.5	0.866	91.3	0.14



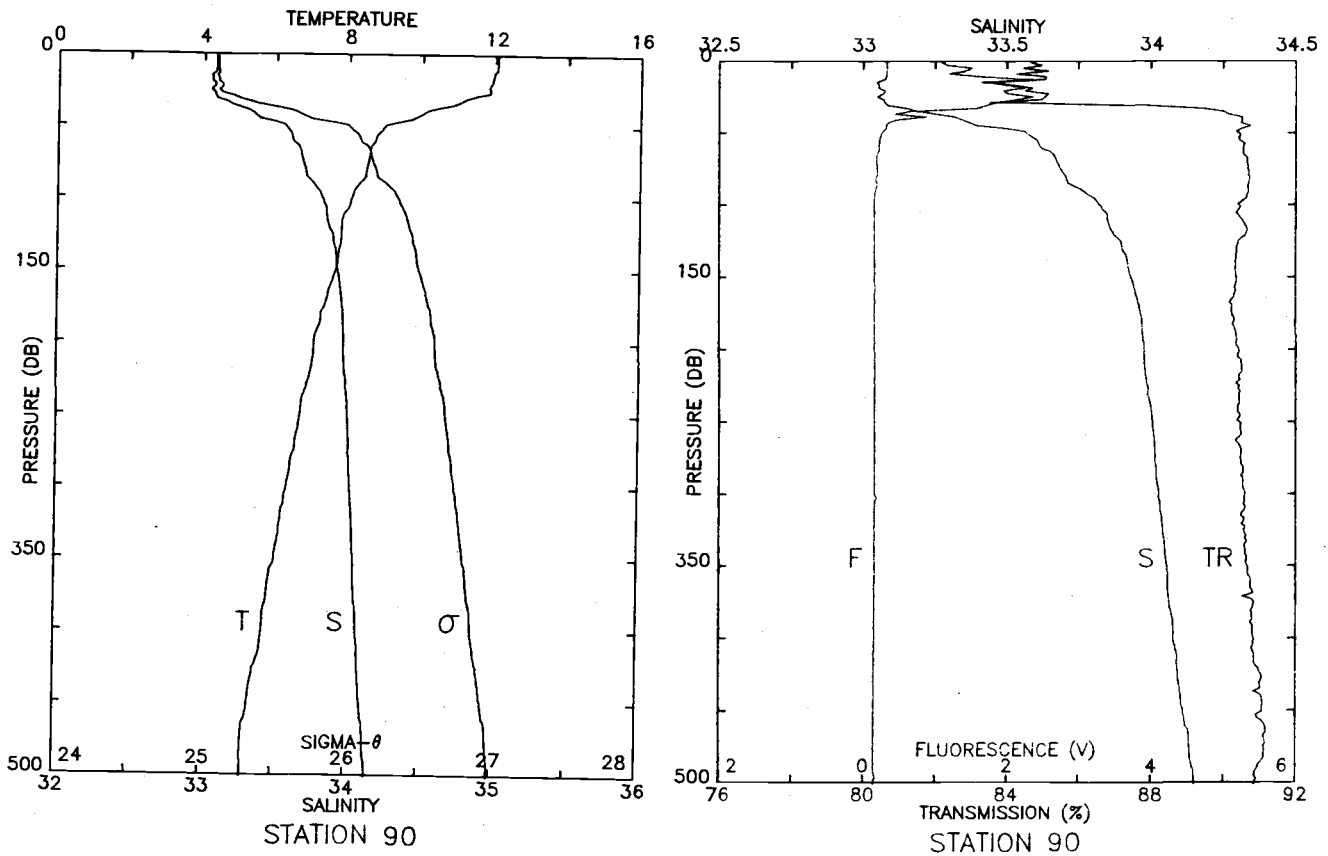
STA NO 88 LAT: 40 7.2 N LONG: 126 10.0 W
25 MAY 1987 2312 GMT PROBE 2561 DEPTH 4036M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.013	32.829	11.013	25.083	286.9	0.003	82.8	1.37
10	10.946	32.837	10.945	25.102	285.3	0.029	81.8	1.94
20	10.810	33.005	10.808	25.257	270.8	0.057	80.8	2.96
30	10.684	33.092	10.681	25.346	262.5	0.083	81.5	2.38
40	10.603	33.119	10.599	25.382	259.3	0.109	82.2	2.30
50	9.602	33.201	9.596	25.615	237.3	0.135	88.7	1.04
60	9.411	33.396	9.404	25.798	220.0	0.157	88.4	0.56
70	9.135	33.547	9.127	25.960	204.8	0.179	87.6	0.68
80	8.928	33.600	8.920	26.035	197.9	0.199	88.5	0.50
90	8.819	33.630	8.809	26.075	194.3	0.218	88.8	0.41
100	8.625	33.674	8.615	26.140	188.3	0.237	89.3	0.27
110	8.408	33.733	8.397	26.220	180.8	0.256	85.6	0.22
120	8.221	33.779	8.209	26.284	174.9	0.273	90.0	0.19
130	8.110	33.823	8.097	26.335	170.2	0.291	89.6	0.20
140	7.841	33.887	7.827	26.426	161.7	0.307	89.9	0.16
150	7.763	33.909	7.748	26.454	159.2	0.323	90.0	0.16
175	7.491	33.960	7.475	26.533	152.0	0.362	90.3	0.16
200	7.190	33.983	7.172	26.594	146.5	0.400	90.3	0.15
225	6.802	33.992	6.782	26.654	141.0	0.436	90.5	0.15
250	6.596	33.997	6.573	26.686	138.3	0.471	90.6	0.15
300	6.154	34.028	6.128	26.768	131.0	0.538	90.7	0.15
400	5.608	34.092	5.574	26.888	120.5	0.664	90.9	0.14
500	5.048	34.144	5.008	26.996	111.0	0.780	91.1	0.14
503	5.039	34.145	4.999	26.997	110.9	0.784	91.2	0.14



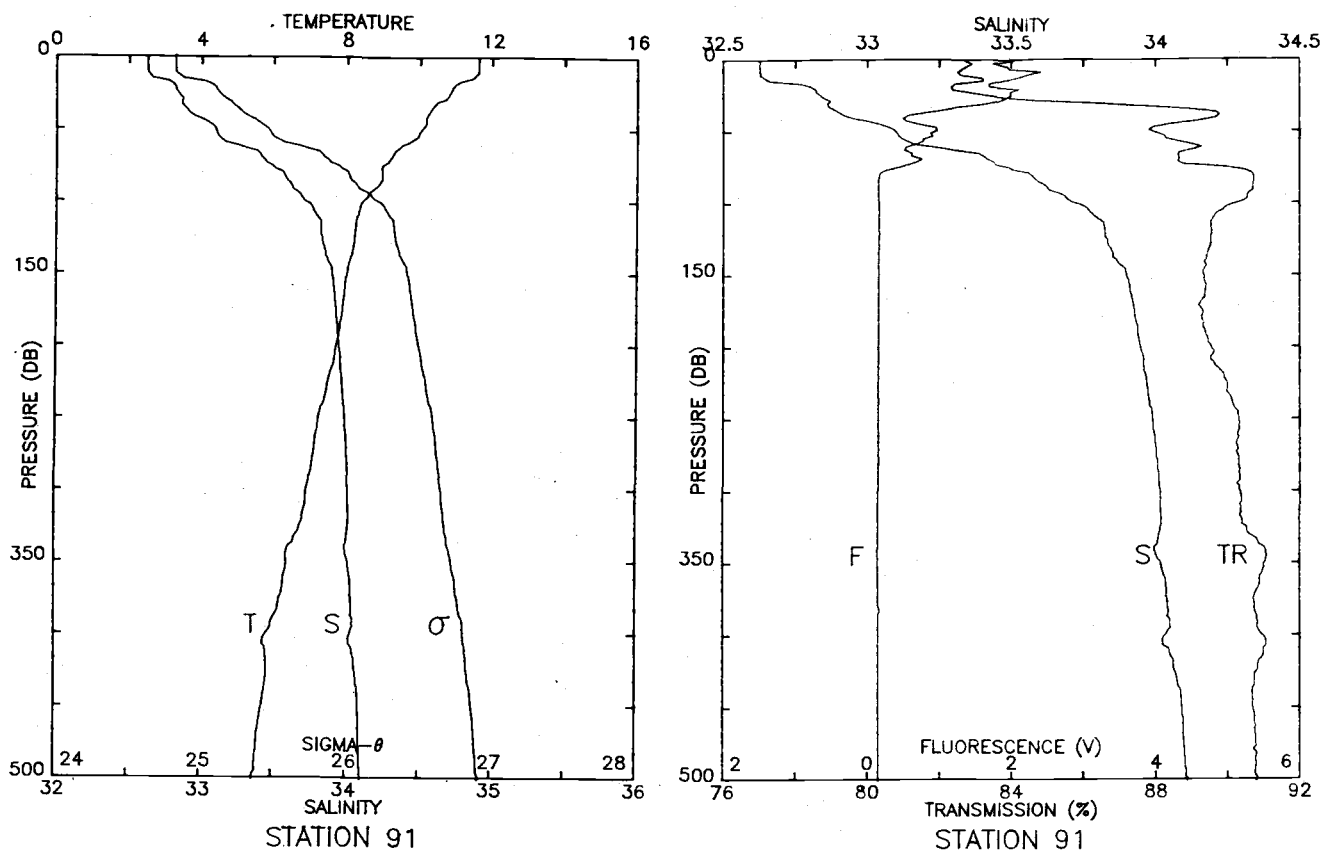
STA NO 89 LAT: 40 14.7 N LONG: 126 10.1 W
 26 MAY 1987 0031 GMT PROBE 2561 DEPTH 4026M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.480	33.083	11.480	25.197	276.1	0.003	85.4	0.90
10	11.468	33.081	11.466	25.198	276.1	0.028	85.4	1.11
20	11.475	33.109	11.472	25.218	274.5	0.055	84.8	1.42
30	11.210	33.213	11.206	25.348	262.4	0.082	85.0	1.68
40	9.851	33.399	9.846	25.728	226.4	0.106	88.5	0.83
50	9.327	33.498	9.322	25.891	211.0	0.128	90.1	0.40
60	8.961	33.579	8.954	26.013	199.7	0.149	90.3	0.27
70	8.689	33.653	8.681	26.113	190.2	0.168	90.6	0.20
80	8.553	33.692	8.545	26.165	185.5	0.187	90.7	0.19
90	8.444	33.716	8.435	26.201	182.3	0.205	90.6	0.17
100	8.213	33.772	8.203	26.280	174.9	0.223	90.6	0.16
110	8.125	33.812	8.114	26.324	170.9	0.240	90.5	0.15
120	8.042	33.845	8.030	26.362	167.4	0.257	90.4	0.14
130	7.886	33.880	7.874	26.413	162.8	0.274	90.3	0.15
140	7.719	33.910	7.705	26.461	158.3	0.290	90.2	0.15
150	7.622	33.929	7.607	26.490	155.7	0.305	90.1	0.15
175	7.293	33.961	7.276	26.563	149.2	0.343	90.0	0.16
200	7.083	33.978	7.064	26.605	145.4	0.380	90.1	0.15
225	6.776	33.998	6.756	26.663	140.2	0.416	90.4	0.15
250	6.506	34.011	6.484	26.709	136.1	0.450	90.5	0.15
300	6.103	34.039	6.077	26.784	129.5	0.517	90.5	0.15
400	5.545	34.099	5.512	26.901	119.3	0.641	90.8	0.15
500	4.992	34.189	4.953	27.038	107.0	0.754	91.1	0.15
501	4.992	34.190	4.952	27.038	107.0	0.755	91.1	0.15



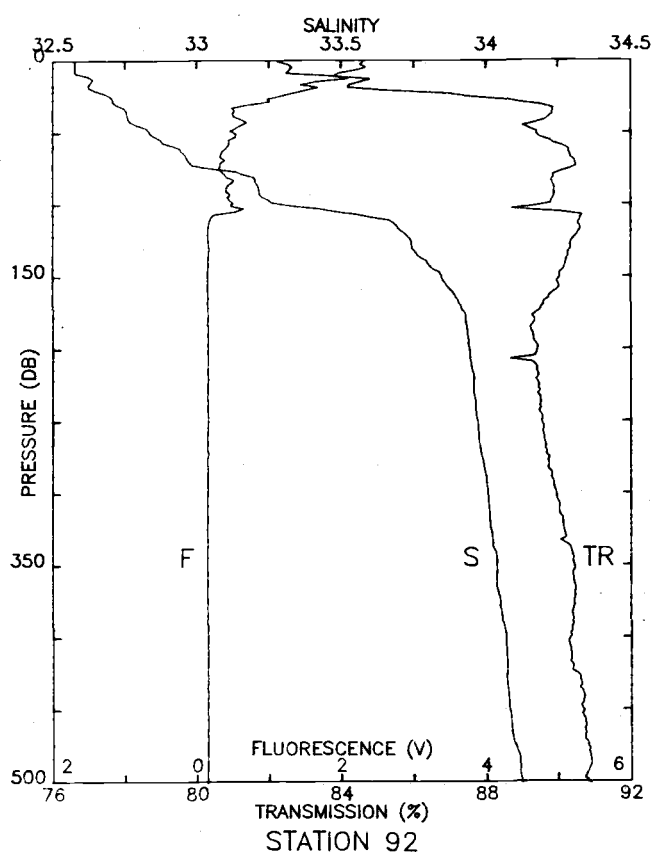
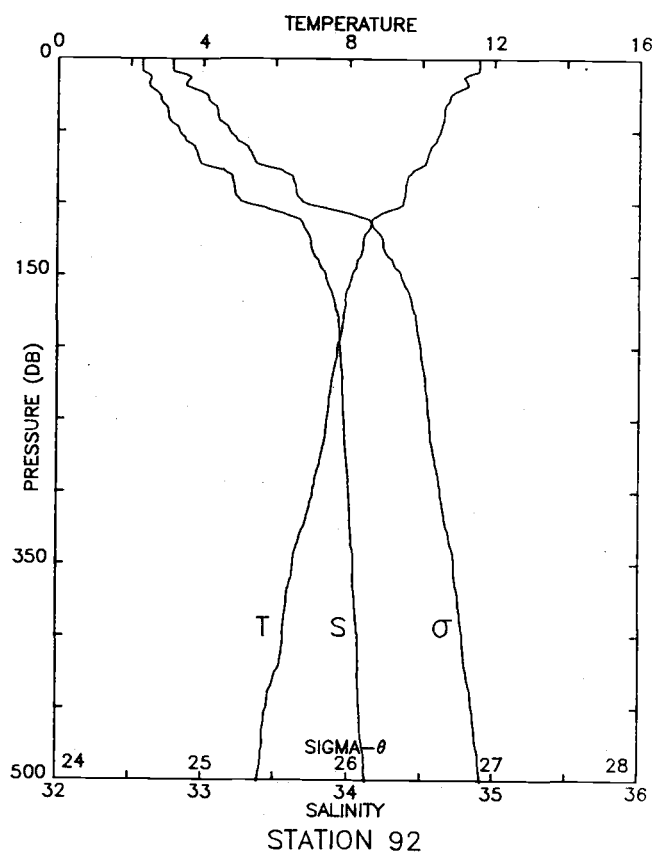
STA NO 90 LAT: 40 22.0 N LONG: 126 10.1 W
 26 MAY 1987 0142 GMT PROBE 2561 DEPTH 2880M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.066	33.081	12.066	25.087	286.5	0.003	84.7	1.09
10	12.032	33.081	12.030	25.093	286.1	0.029	84.7	1.42
20	11.884	33.065	11.882	25.109	284.8	0.057	84.6	2.10
30	11.328	33.081	11.324	25.224	274.2	0.085	85.7	1.79
40	10.082	33.331	10.078	25.636	235.1	0.111	90.5	0.67
50	8.968	33.566	8.963	26.002	200.5	0.133	90.4	0.26
60	8.710	33.619	8.704	26.083	192.9	0.153	90.5	0.22
70	8.555	33.676	8.548	26.152	186.6	0.172	90.7	0.19
80	8.477	33.705	8.468	26.187	183.4	0.190	90.7	0.19
90	8.278	33.765	8.269	26.264	176.3	0.208	90.7	0.17
100	8.077	33.825	8.067	26.341	169.1	0.225	90.4	0.15
110	7.900	33.850	7.889	26.388	164.8	0.242	90.5	0.15
120	7.813	33.872	7.801	26.417	162.2	0.258	90.6	0.15
130	7.795	33.900	7.783	26.442	159.9	0.274	90.4	0.15
140	7.724	33.920	7.710	26.468	157.7	0.290	90.3	0.15
150	7.659	33.931	7.645	26.486	156.1	0.306	90.4	0.15
175	7.356	33.963	7.339	26.555	149.9	0.344	90.2	0.15
200	7.087	33.976	7.068	26.603	145.7	0.381	90.4	0.16
225	6.934	33.988	6.913	26.633	143.1	0.417	90.4	0.16
250	6.704	34.004	6.681	26.678	139.1	0.452	90.4	0.16
300	6.353	34.027	6.327	26.742	133.6	0.521	90.6	0.16
400	5.710	34.078	5.677	26.864	122.9	0.649	90.8	0.15
500	5.159	34.150	5.119	26.988	111.9	0.765	90.9	0.15
501	5.158	34.150	5.118	26.988	111.9	0.766	90.9	0.15



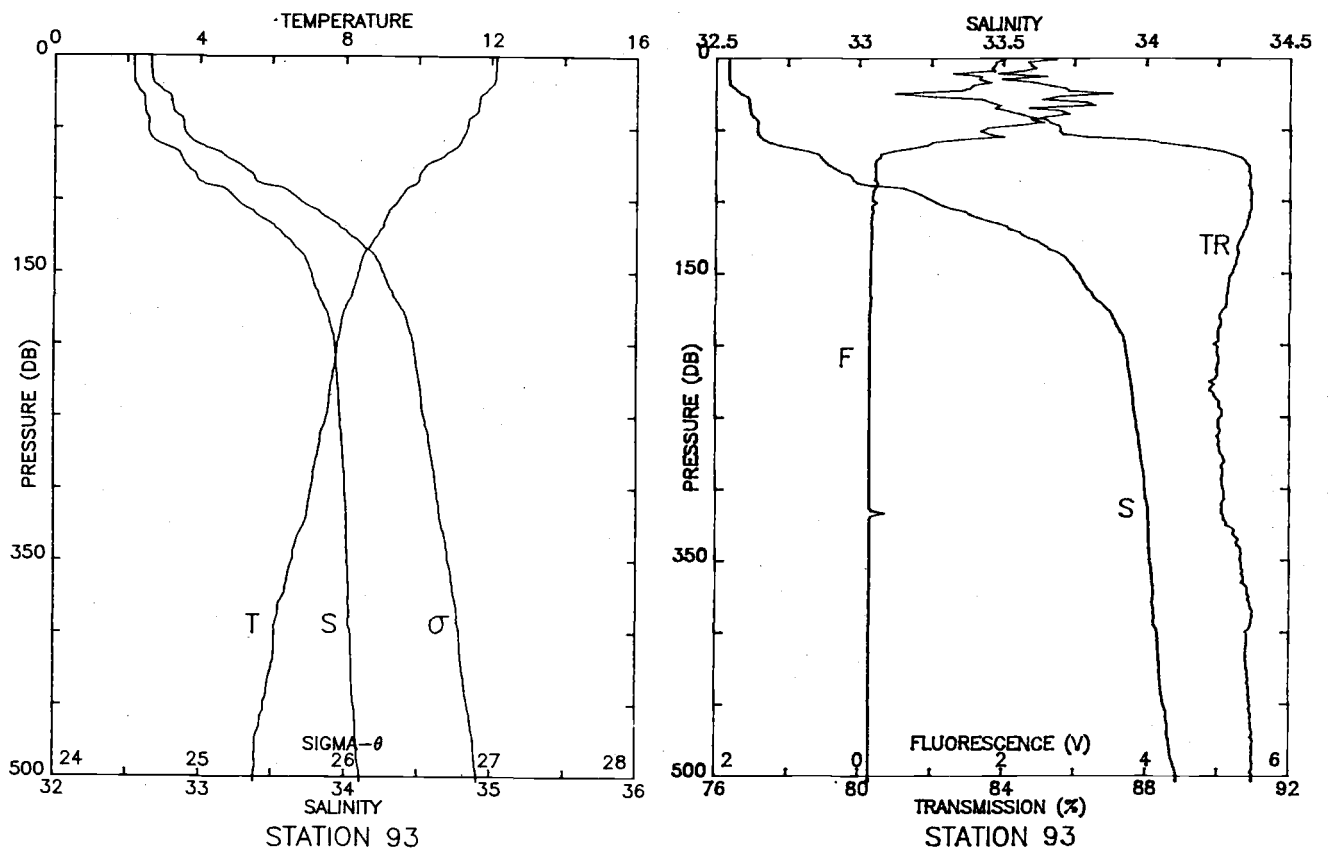
STA NO 91 LAT: 40 29.4 N LONG: 126 10.2 W
 26 MAY 1987 0253 GMT PROBE 2561 DEPTH 3092M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.633	32.627	11.633	24.815	312.4	0.003	82.7	2.03
10	11.610	32.627	11.609	24.819	312.2	0.031	82.6	2.32
20	10.933	32.812	10.930	25.084	287.2	0.061	82.3	1.90
30	10.592	32.867	10.588	25.187	277.6	0.090	85.7	1.72
40	10.195	32.935	10.191	25.308	266.3	0.117	89.7	0.53
50	10.034	33.098	10.028	25.462	251.8	0.143	87.9	0.92
60	9.587	33.208	9.581	25.622	236.8	0.167	89.1	0.59
70	9.185	33.427	9.178	25.859	214.5	0.190	88.6	0.72
80	8.948	33.566	8.939	26.005	200.8	0.210	90.7	0.17
90	8.792	33.628	8.782	26.078	194.0	0.230	90.7	0.15
100	8.416	33.726	8.406	26.213	181.3	0.249	90.3	0.16
110	8.279	33.798	8.268	26.290	174.1	0.267	89.6	0.16
120	8.210	33.825	8.198	26.322	171.3	0.284	89.6	0.17
130	8.176	33.841	8.163	26.339	169.8	0.301	89.5	0.16
140	8.081	33.868	8.067	26.375	166.6	0.318	89.4	0.16
150	8.002	33.900	7.987	26.412	163.2	0.334	89.3	0.16
175	7.871	33.926	7.854	26.452	159.8	0.375	89.3	0.15
200	7.710	33.948	7.691	26.493	156.4	0.414	89.5	0.15
225	7.487	33.969	7.466	26.542	152.1	0.453	90.0	0.15
250	7.231	33.989	7.208	26.594	147.4	0.490	90.3	0.15
300	6.932	34.015	6.905	26.656	142.1	0.563	90.3	0.15
400	5.837	34.031	5.803	26.812	127.9	0.698	91.0	0.15
500	5.470	34.110	5.429	26.920	118.7	0.822	90.8	0.15
501	5.472	34.111	5.431	26.920	118.7	0.823	90.8	0.15



STA NO 92 LAT: 40 36.6 N LONG: 126 10.1 W
26 MAY 1987 0415 GMT PROBE 2561 DEPTH 3118M

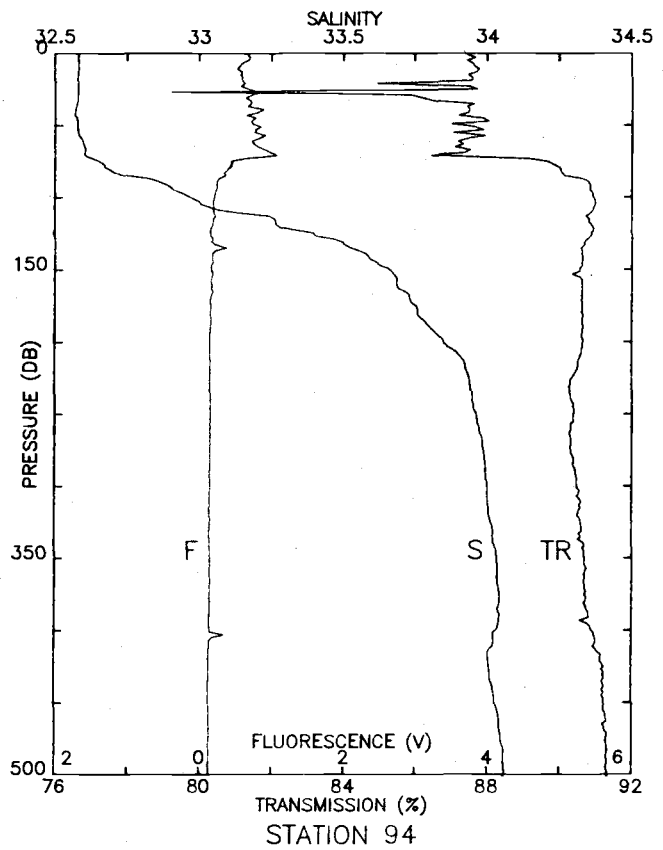
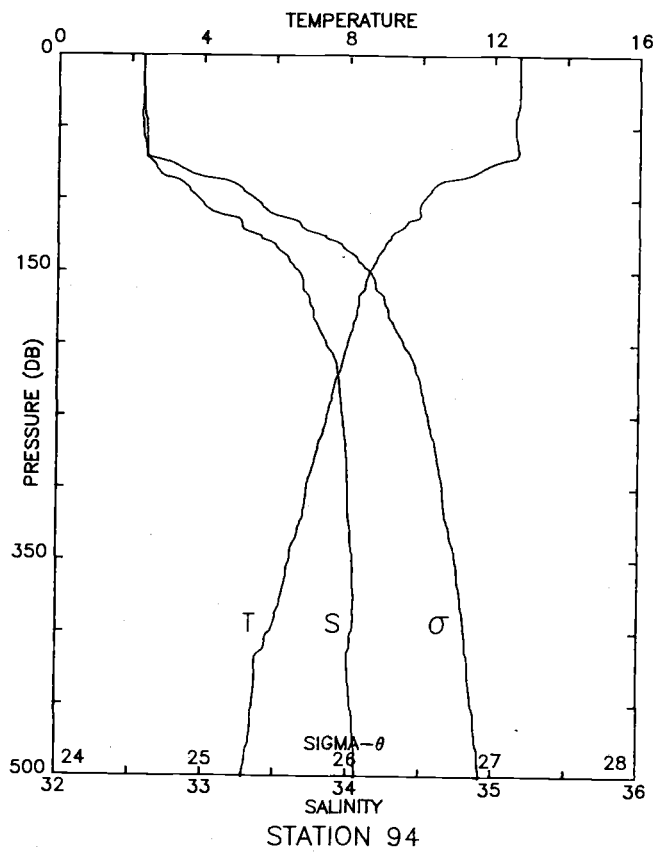
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	11.566	32.576	11.566	24.787	315.0	0.003	82.3	2.30
10	11.404	32.599	11.403	24.835	310.7	0.031	83.1	1.92
20	11.168	32.635	11.166	24.905	304.2	0.062	84.7	1.59
30	10.706	32.714	10.703	25.048	290.8	0.092	89.3	0.86
40	10.592	32.760	10.588	25.104	285.7	0.120	89.7	0.57
50	10.490	32.837	10.484	25.181	278.6	0.149	89.4	0.51
60	10.270	32.928	10.264	25.290	268.4	0.176	90.2	0.42
70	10.107	32.974	10.100	25.354	262.5	0.202	90.5	0.36
80	9.652	33.180	9.643	25.590	240.2	0.228	89.9	0.40
90	9.528	33.217	9.518	25.640	235.7	0.251	89.9	0.41
100	9.464	33.291	9.453	25.708	229.4	0.275	89.6	0.49
110	8.693	33.636	8.681	26.100	192.2	0.296	90.6	0.19
120	8.481	33.719	8.469	26.198	183.1	0.315	90.5	0.15
130	8.383	33.746	8.370	26.234	179.9	0.333	90.3	0.17
140	8.226	33.798	8.212	26.299	173.9	0.350	90.2	0.16
150	8.087	33.846	8.072	26.357	168.4	0.367	90.0	0.15
175	7.880	33.926	7.863	26.450	160.0	0.408	89.4	0.15
200	7.684	33.943	7.665	26.493	156.4	0.448	89.4	0.15
225	7.534	33.958	7.513	26.526	153.5	0.487	89.5	0.15
250	7.406	33.971	7.382	26.555	151.2	0.525	89.6	0.16
300	7.039	34.006	7.012	26.635	144.2	0.599	90.0	0.15
400	6.248	34.068	6.213	26.789	130.5	0.735	90.3	0.15
500	5.563	34.126	5.521	26.921	118.7	0.860	90.9	0.15
501	5.559	34.126	5.517	26.922	118.6	0.861	90.9	0.15



STA NO 93
26 MAY 1987

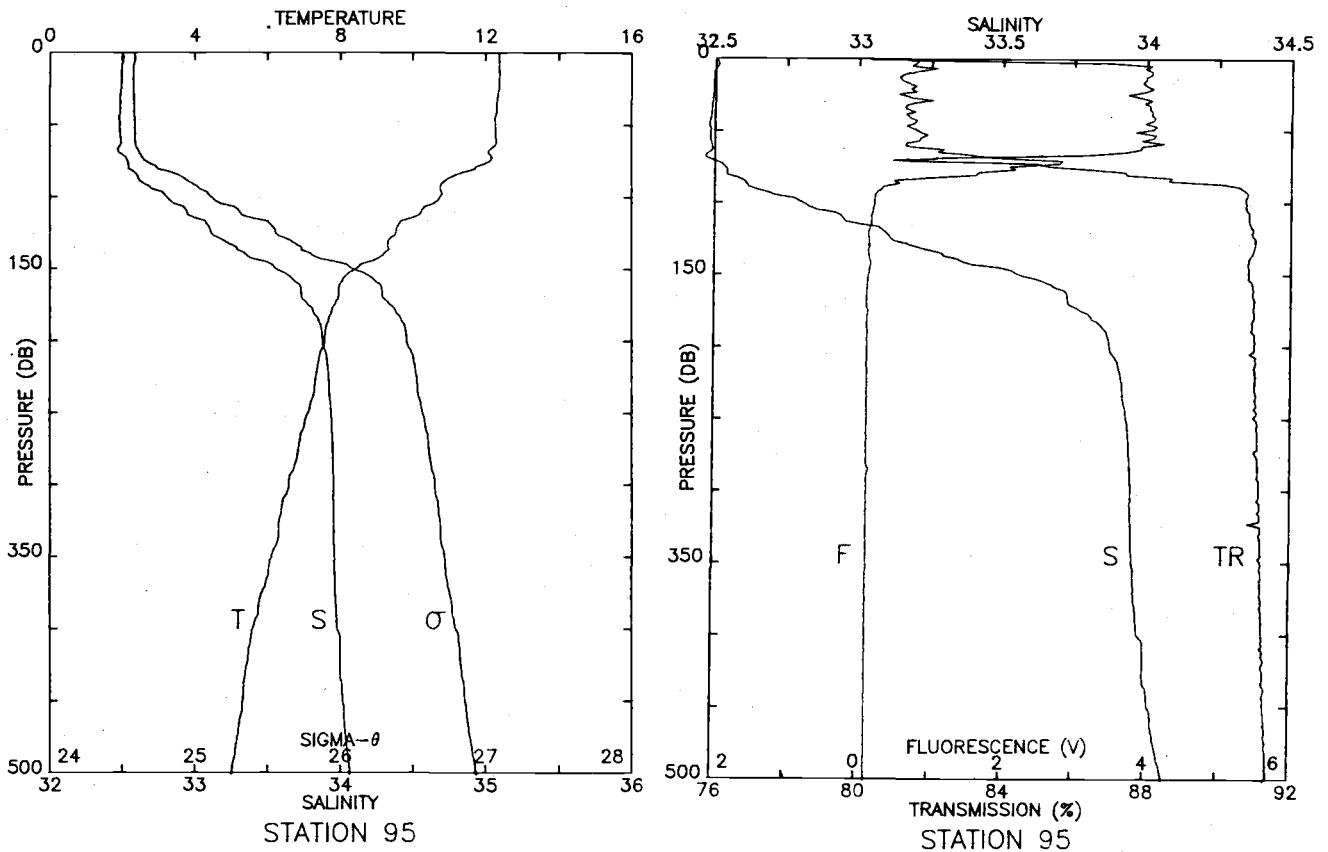
LAT: 40 44.0 N LONG: 126 10.1 W
0526 GMT PROBE 2561 DEPTH 3120M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.120	32.544	12.119	24.661	327.1	0.003	84.0	2.72
10	12.110	32.545	12.108	24.663	327.1	0.033	83.2	2.10
20	12.013	32.555	12.010	24.690	324.8	0.065	83.1	2.76
30	11.657	32.615	11.654	24.801	314.4	0.097	83.5	2.86
40	11.546	32.625	11.541	24.830	311.9	0.129	84.6	2.76
50	11.308	32.643	11.302	24.887	306.7	0.159	85.6	1.72
60	11.121	32.703	11.114	24.967	299.2	0.190	88.7	0.97
70	10.631	32.867	10.623	25.181	279.0	0.219	90.7	0.26
80	10.058	32.944	10.049	25.339	264.2	0.246	90.9	0.23
90	9.791	33.095	9.781	25.502	248.9	0.272	90.9	0.23
100	9.434	33.258	9.423	25.687	231.4	0.295	90.9	0.21
110	9.137	33.394	9.126	25.841	216.9	0.318	90.9	0.17
120	8.971	33.538	8.958	25.980	203.9	0.339	90.7	0.17
130	8.699	33.640	8.686	26.103	192.4	0.359	90.5	0.17
140	8.443	33.723	8.428	26.207	182.6	0.377	90.5	0.15
150	8.337	33.764	8.322	26.255	178.2	0.395	90.4	0.16
175	8.004	33.862	7.986	26.382	166.5	0.439	90.1	0.16
200	7.774	33.929	7.754	26.469	158.7	0.479	89.9	0.15
225	7.625	33.948	7.603	26.506	155.5	0.518	89.8	0.15
250	7.482	33.964	7.458	26.539	152.7	0.557	90.1	0.14
300	7.061	33.996	7.033	26.624	145.3	0.631	90.2	0.14
400	6.083	34.042	6.048	26.790	130.3	0.769	90.8	0.14
500	5.520	34.107	5.479	26.912	119.5	0.894	91.0	0.14
503	5.516	34.108	5.474	26.912	119.5	0.898	91.0	0.14



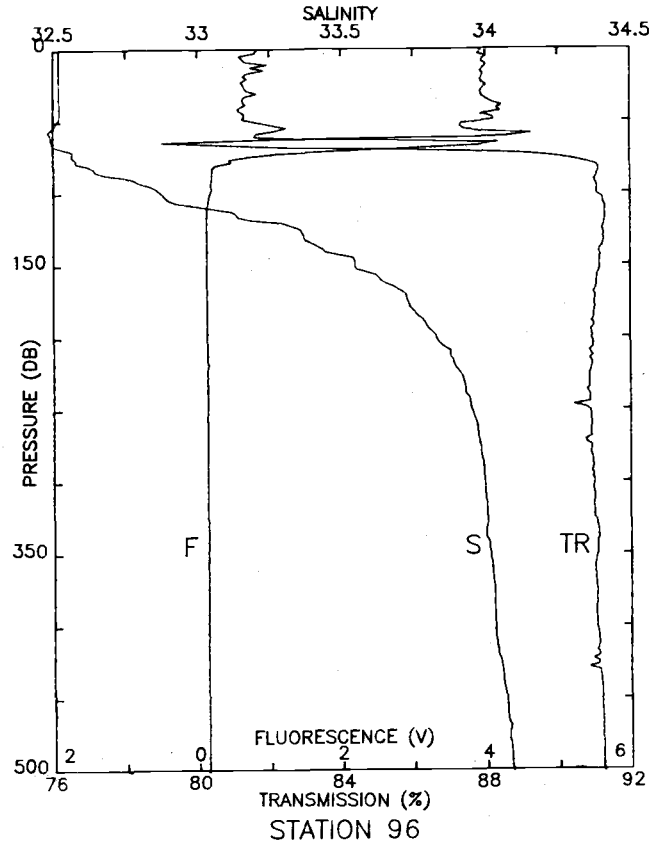
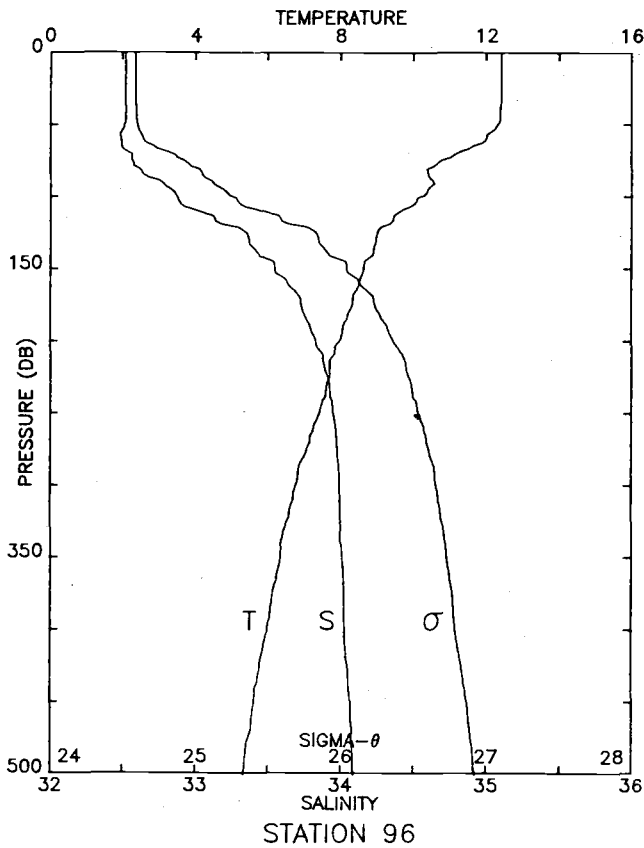
STA NO 94 LAT: 40 51.3 N LONG: 126 10.1 W
26 MAY 1987 0653 GMT PROBE 2561 DEPTH 3112M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.684	32.581	12.684	24.582	334.6	0.003	87.5	0.67
10	12.685	32.581	12.684	24.582	334.8	0.033	87.7	0.54
20	12.676	32.579	12.673	24.582	335.1	0.067	86.2	0.61
30	12.669	32.577	12.665	24.583	335.3	0.100	86.1	0.68
40	12.598	32.569	12.593	24.590	334.9	0.134	87.5	0.86
50	12.560	32.577	12.554	24.603	333.8	0.167	87.3	0.79
60	12.613	32.593	12.605	24.606	333.8	0.201	87.3	0.78
70	12.609	32.603	12.600	24.615	333.2	0.234	86.9	1.04
80	11.602	32.683	11.592	24.865	309.4	0.266	90.0	0.42
90	10.383	32.868	10.372	25.225	275.3	0.296	90.8	0.25
100	10.053	32.967	10.041	25.358	262.8	0.322	91.0	0.21
110	9.957	33.102	9.945	25.480	251.4	0.348	90.9	0.20
120	9.463	33.273	9.449	25.695	231.1	0.372	90.9	0.18
130	9.006	33.479	8.992	25.928	209.0	0.394	90.7	0.18
140	8.763	33.583	8.748	26.048	197.8	0.414	90.6	0.18
150	8.547	33.662	8.531	26.144	188.9	0.434	90.6	0.17
175	8.230	33.756	8.213	26.266	177.6	0.480	90.6	0.16
200	7.971	33.850	7.951	26.378	167.3	0.523	90.6	0.15
225	7.653	33.938	7.632	26.494	156.6	0.563	90.3	0.15
250	7.404	33.962	7.380	26.548	151.8	0.602	90.4	0.15
300	6.871	34.001	6.843	26.653	142.4	0.675	90.5	0.15
400	5.854	34.029	5.821	26.808	128.3	0.810	90.9	0.15
500	5.137	34.060	5.097	26.919	118.4	0.934	91.3	0.14
501	5.139	34.059	5.099	26.918	118.5	0.935	91.3	0.14



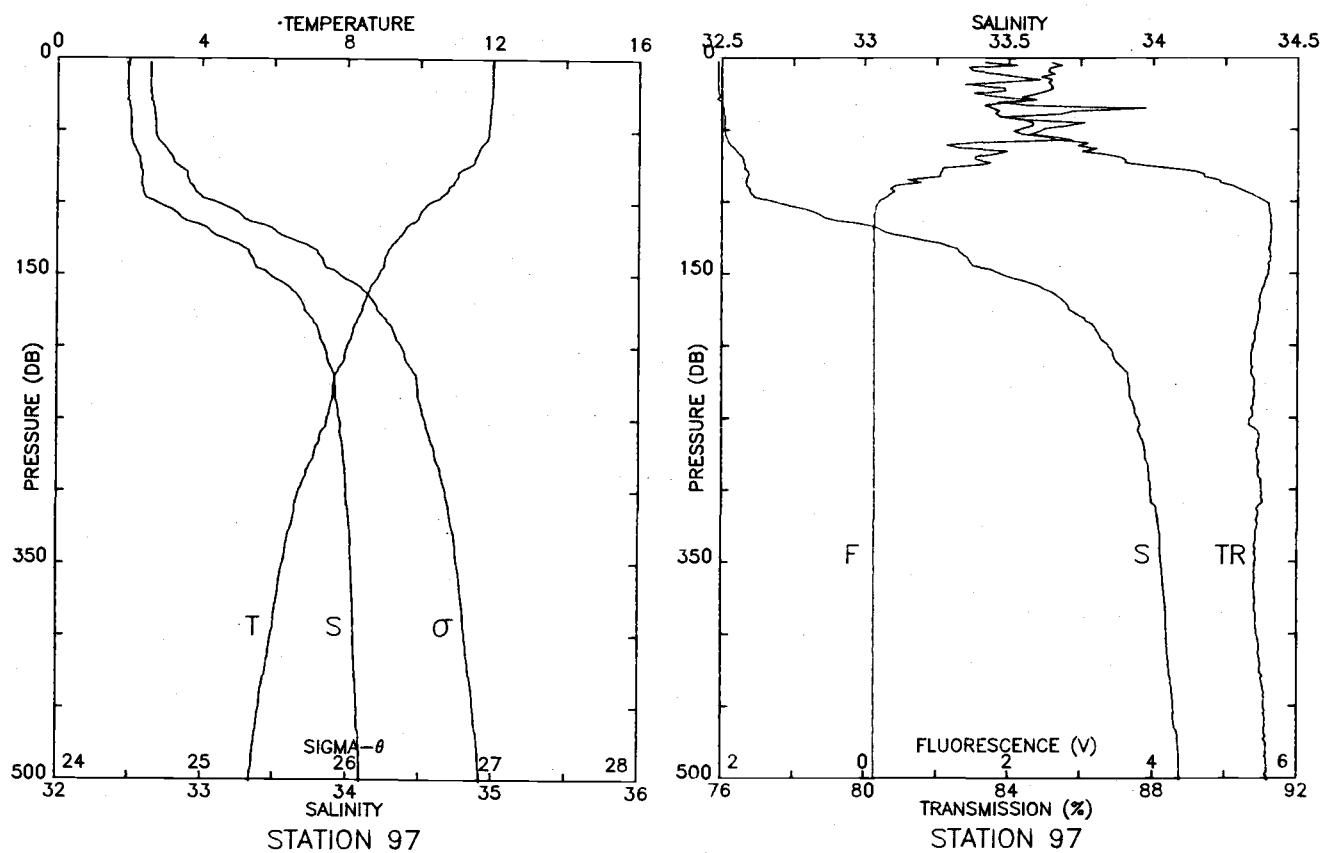
STA NO 95 LAT: 40 58.7 N LONG: 126 10.0 W
 26 MAY 1987 0803 GMT PROBE 2561 DEPTH 3098M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
1	12.366	32.504	12.366	24.582	334.6	0.003	80.3	0.81
10	12.368	32.494	12.366	24.575	335.5	0.033	88.1	0.70
20	12.363	32.493	12.361	24.575	335.7	0.067	88.1	0.75
30	12.320	32.489	12.316	24.581	335.4	0.101	88.0	0.88
40	12.304	32.485	12.299	24.581	335.6	0.134	88.2	0.68
50	12.261	32.484	12.255	24.588	335.2	0.168	87.9	0.82
60	12.282	32.489	12.275	24.588	335.4	0.201	88.2	0.65
70	12.088	32.484	12.080	24.621	332.5	0.235	81.6	2.36
80	11.712	32.544	11.702	24.738	321.6	0.268	87.4	1.64
90	10.834	32.633	10.823	24.964	300.2	0.298	90.6	0.33
100	10.762	32.804	10.751	25.110	286.5	0.328	90.8	0.22
110	10.246	32.943	10.233	25.308	267.8	0.355	90.9	0.19
120	9.598	33.091	9.585	25.530	246.8	0.381	91.0	0.15
130	9.338	33.192	9.324	25.651	235.4	0.406	91.0	0.16
140	9.187	33.354	9.172	25.802	221.2	0.428	90.8	0.17
150	8.424	33.562	8.409	26.084	194.5	0.449	90.8	0.15
175	7.839	33.775	7.822	26.338	170.6	0.494	91.0	0.15
200	7.552	33.875	7.533	26.458	159.6	0.535	91.0	0.13
225	7.310	33.919	7.289	26.527	153.3	0.574	91.0	0.14
250	7.109	33.935	7.086	26.568	149.8	0.612	91.0	0.13
300	6.576	33.951	6.549	26.653	142.1	0.684	91.1	0.13
400	5.594	33.980	5.561	26.801	128.8	0.820	91.3	0.13
500	5.020	34.066	4.981	26.937	116.5	0.943	91.4	0.13
501	5.018	34.067	4.978	26.938	116.4	0.944	91.3	0.13



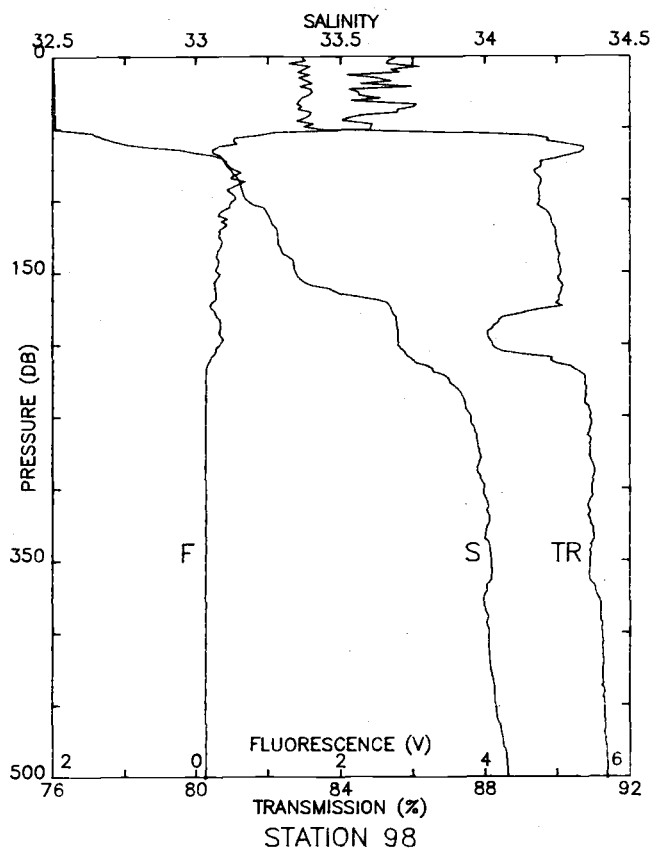
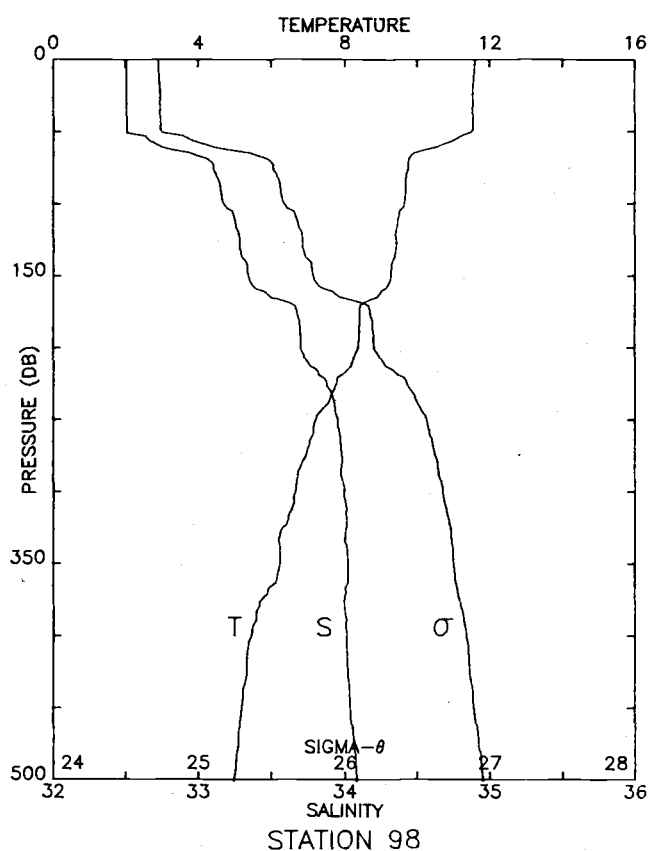
STA NO 96 LAT: 41 6.0 N LONG: 126 10.0 W
26 MAY 1987 0914 GMT PROBE 2561 DEPTH 3065M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	12.406	32.518	12.406	24.586	334.2	0.003	87.9	0.82
10	12.408	32.519	12.406	24.587	334.3	0.033	88.0	0.82
20	12.408	32.519	12.405	24.587	334.6	0.067	87.9	0.66
30	12.409	32.521	12.405	24.588	334.7	0.100	87.9	0.75
40	12.382	32.523	12.377	24.595	334.3	0.134	88.4	0.62
50	12.314	32.514	12.308	24.602	333.9	0.167	87.8	0.73
60	11.996	32.491	11.989	24.643	330.2	0.200	88.9	0.80
70	11.200	32.552	11.191	24.836	311.9	0.233	85.2	2.52
80	10.465	32.599	10.455	25.001	296.3	0.263	91.0	0.36
90	10.548	32.765	10.538	25.116	285.7	0.292	91.0	0.19
100	10.202	32.871	10.190	25.259	272.3	0.320	91.1	0.17
110	9.651	33.019	9.639	25.465	252.7	0.347	91.3	0.13
120	9.231	33.239	9.218	25.705	230.1	0.371	91.3	0.12
130	8.959	33.369	8.945	25.850	216.4	0.393	91.3	0.13
140	8.873	33.440	8.858	25.919	210.0	0.414	91.1	0.13
150	8.629	33.548	8.613	26.042	198.5	0.434	91.1	0.13
175	8.313	33.733	8.295	26.235	180.5	0.482	91.0	0.13
200	7.977	33.832	7.957	26.363	168.8	0.525	90.9	0.13
225	7.694	33.913	7.672	26.469	159.1	0.566	90.9	0.13
250	7.419	33.950	7.395	26.537	152.9	0.605	90.8	0.13
300	6.785	33.995	6.757	26.660	141.6	0.678	91.0	0.14
400	6.001	34.030	5.966	26.790	130.1	0.813	91.0	0.14
500	5.332	34.089	5.291	26.919	118.6	0.937	91.2	0.14
501	5.332	34.090	5.291	26.920	118.5	0.938	91.2	0.14



STA NO 97 LAT: 41 6.0 N LONG: 125 49.9 W
 26 MAY 1987 1105 GMT PROBE 2561 DEPTH 3091M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	TRN	FL
3	11.979	32.487	11.979	24.642	328.9	0.010	85.2	1.67
10	11.979	32.487	11.978	24.643	329.0	0.033	85.2	1.65
20	11.981	32.487	11.979	24.643	329.3	0.066	85.2	1.66
30	11.953	32.492	11.949	24.652	328.6	0.099	84.4	2.06
40	11.911	32.510	11.906	24.674	326.8	0.131	83.7	2.30
50	11.878	32.511	11.872	24.681	326.3	0.164	84.3	2.46
60	11.693	32.527	11.685	24.728	322.1	0.197	86.1	1.38
70	11.496	32.573	11.488	24.800	315.5	0.228	87.2	1.53
80	11.030	32.593	11.021	24.899	306.2	0.260	89.3	1.05
90	10.774	32.594	10.764	24.944	302.1	0.290	90.3	0.39
100	10.248	32.687	10.237	25.107	286.7	0.320	91.1	0.20
110	9.949	32.851	9.936	25.285	269.9	0.347	91.2	0.13
120	9.547	33.060	9.534	25.514	248.2	0.373	91.3	0.12
130	9.209	33.275	9.195	25.737	227.2	0.397	91.2	0.14
140	9.017	33.359	9.002	25.833	218.3	0.419	91.2	0.13
150	8.856	33.471	8.841	25.946	207.7	0.441	91.2	0.13
175	8.401	33.711	8.383	26.205	183.5	0.489	91.0	0.13
200	7.989	33.844	7.969	26.371	168.0	0.533	90.8	0.13
225	7.622	33.915	7.600	26.480	157.9	0.573	90.8	0.13
250	7.443	33.947	7.420	26.531	153.4	0.612	90.7	0.14
300	6.664	33.992	6.637	26.674	140.3	0.686	91.0	0.13
400	5.934	34.050	5.899	26.814	127.8	0.819	90.9	0.13
500	5.365	34.094	5.324	26.920	118.6	0.942	91.2	0.13
501	5.364	34.095	5.323	26.920	118.5	0.943	91.2	0.13



STA NO 98 LAT: 41 6.0 N LONG: 125 30.0 W
26 MAY 1987 1258 GMT PROBE 2561 DEPTH 3091M

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	TRN	FL
			TEMP	THETA				
1	11.602	32.504	11.602	24.725	321.0	0.003	82.9	2.75
10	11.578	32.505	11.576	24.730	320.7	0.032	82.9	2.76
20	11.550	32.507	11.547	24.737	320.3	0.064	83.0	2.64
30	11.550	32.508	11.546	24.738	320.4	0.096	82.9	2.36
40	11.547	32.508	11.542	24.739	320.5	0.128	83.2	2.53
50	11.513	32.509	11.506	24.746	320.1	0.160	83.2	2.42
60	10.649	32.731	10.642	25.072	289.2	0.191	90.0	0.54
70	9.764	33.074	9.756	25.490	249.6	0.217	90.1	0.35
80	9.705	33.124	9.696	25.538	245.2	0.242	89.4	0.59
90	9.682	33.156	9.672	25.567	242.7	0.266	89.5	0.55
100	9.641	33.179	9.630	25.592	240.5	0.291	89.5	0.53
110	9.478	33.251	9.466	25.674	232.8	0.314	89.8	0.32
120	9.406	33.280	9.393	25.709	229.7	0.337	90.0	0.36
130	9.401	33.284	9.387	25.713	229.5	0.360	90.0	0.36
140	9.305	33.326	9.290	25.762	225.1	0.383	90.0	0.29
150	9.257	33.345	9.240	25.785	223.1	0.405	90.1	0.30
175	8.403	33.676	8.385	26.176	186.2	0.457	89.6	0.22
200	8.366	33.702	8.346	26.203	184.1	0.503	88.2	0.33
225	7.762	33.877	7.740	26.430	162.8	0.547	90.8	0.13
250	7.205	33.950	7.182	26.567	149.9	0.586	90.9	0.13
300	6.655	33.995	6.628	26.678	139.9	0.658	91.0	0.14
400	5.451	34.013	5.418	26.844	124.6	0.791	91.2	0.13
500	4.982	34.082	4.943	26.954	114.8	0.911	91.4	0.13
501	4.979	34.083	4.940	26.955	114.8	0.912	91.4	0.13

LIN INT SAL 363-367 DB