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**CTD Observations off
Oregon and California
R/V Wecoma, WELOC 83
Legs 1,4,5,6
11-18 January and
6-18 April 1983**

by
**Jane Fleischbein
Rich Schramm
Dennis Root
Adriana Huyer
Robert L. Smith**

Data Report 117
Reference 85-11
July 1985

National Science Foundation
OCE-8405232 and OCE-8410881

College of Oceanography,
Oregon State University,
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Abstract

As part of the SuperCODE and CODE projects, two hydrographic cruises were conducted off Oregon and California in January and April 1984. CTD sections across the continental shelf and slope were made near Coos Bay at 43°13'N, off Crescent City at 41°54'N, off Eureka at 40°51'N, along the Arena and Code Central lines near 39°N, off of Half Moon Bay at 37°25'N and off Pt. Purisima at 34°45'N during 11-15 January 1983 and 9-16 April 1983. CTD observations were made off San Diego at 32°43'N on 16 January 1983, along the Calcofi-90 line near 33°N on 6-7 April 1983 and off Newport at 44°39'N on 17-18 April 1983. Maximum sampling depth was 1000 m. This report includes vertical sections and offshore profiles to summarize the data, and vertical plots and standard depth listings for each of the 162 CTD stations.

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INTRODUCTION

The Large Scale West Coast Shelf Experiment (SuperCODE) seeks to describe the larger scale alongshore structure of the currents over the continental shelf between Coos Bay, Oregon and Purisima Pt., California. On a smaller scale, the Coastal Ocean Dynamics Experiment (CODE) has similar objectives for the continental shelf region between Pt. Arena and Pt. Reyes, California. Through the cooperation of these two projects, hydrographic surveys were conducted in SuperCODE and CODE regions (Figures 1 and 2) during January and April of 1983, and current meter moorings were recovered along the Code Central line at $38^{\circ}36'$ and off Eureka at $40^{\circ}51'N$, and replaced near Coos Bay at $43^{\circ}13'N$ from 11-15 April 1983.

The purpose of cruise WELOC 83 Leg 1 was to complete CTD sections with a maximum sampling depth of 1000 meters off of Coos Bay, Oregon and Crescent City, Eureka, Pt. Arena, Sea Ranch, Half Moon Bay, Purisima Pt. and Del Mar, California. The main purposes of WELOC 83 Legs 4, 5 and 6 were to repeat the CODE and SuperCODE CTD sections and to recover current meter moorings off of Sea Ranch, Eureka and Coos Bay. Due to the unusual oceanic conditions during the El Niño, additional purposes were added to Legs 4 and 6 in support of the El Niño del Norte Study. CTD sections were made along the historically repeated CalCOFI Line 90 near San Diego and the Newport Hydro Line off Newport, Oregon. Water samples were collected for oxygen, nutrient, and chlorophyll analysis along CalCOFI Line 90 and for chlorophyll analysis along the Newport Hydro Line. Principal investigators and cruise participants for each leg are listed in Table 1. Only the CTD data are included in this report.

The R/V WECOMA departed on Leg 1 on 10 January 1983 from Newport, Oregon and arrived in San Diego, California on 16 January 1983. From 11 to 16 January

Table 1. Projects, principal investigators and personnel participating in WELOC 83 Leg 1, 10-16 January 1983 and Legs 4-6, 5-18 April 1983.

<u>Project</u>	<u>Principal Investigator</u>	<u>Personnel On Board</u>
<u>Leg 1</u>		
SuperCODE and CODE: CTD Sections	R. L. Smith, OSU A. Huyer, OSU J. S. Allen, OSU	R. Schramm [†] , OSU D. Barstow, OSU H. Pittock, OSU J. Fleischbein, OSU M. Miller, OSU M. Park, OSU R. Herner, CCC J. Johnson, CCC
<u>Leg 4</u>		
El Niño del Norte: CTD Section	R. L. Smith, OSU	A. Huyer [†] , OSU R. L. Smith [†] , OSU M. Miller, OSU R. Schramm, OSU J. Fleischbein, OSU D. Master, SIO N. Ismail, UCSB S. Cummings, UCSB
Water Sampling	J. L. Reid, SIO	} on Legs 4, 5, 6
<u>Leg 5</u>		
SuperCODE and CODE:	R. L. Smith, OSU A. Huyer, OSU J. S. Allen, OSU	C. Mills, WHOI P. O'Malley, WHOI J. Reese, WHOI B. Skelly, WHOI
CODE: mooring recovery	R. Beardsley, WHOI	
<u>Leg 6</u>		
SuperCODE and CODE: CTD Sections Moorings		R. Still, OSU D. Barstow, OSU M. Park, OSU
El Niño del Norte: CTD Sections	R. L. Smith, OSU	
Water Sampling	C. Miller, OSU	

[†] chief scientist(s)

Institutions:

OSU Oregon State University

CCC Clatsop Community College

SIO Scripps Institution of Oceanography

UCSB University of California at Santa Barbara

WHOI Woods Hole Oceanographic Institution

a total of 66 CTD casts (Table 2, Figure 1) were completed along 8 sections: FM, CR, EUR, AR, COC, HM, PR and DM. All casts were conventional CTD casts, except on stations 9 to 14, 51 and 52 a Rosette water sampler holding current meters and a transmissometer was attached to the CTD to test the Rosette system in preparation for legs 2 and 3, and to check the pressure effects on the current meters' conductivity cells.

Cruise WELOC 83 Leg 4 departed San Diego on 5 April 1983 and returned to San Diego on 7 April after completing 11 Rosette-CTD casts along CalCOFI Line 90 (Stations 1-11, Table 3). This leg has been recorded on film by Channel 2 News of Portland, Oregon and was run as a serial "OSU Goes to Sea" during the prime time local news. Although receiving acclaim from the public, it has received mixed reviews from some of the more sophisticated members of the college.

The R/V WECOMA embarked on Leg 5 on 8 April and began a CTD section off Purisima Pt. on 9 April (Stations 12-20; Figure 2, Table 3). On 10 April the Purisima and Half Moon Bay lines were completed and the ship headed for the C-3 mooring site on the CODE Central Line off Sea Ranch. On the morning of 11 April, seven "yo-yo" CTD casts (Stations 30-36, Figure 3) were done at the C-3 site. After an unsuccessful attempt to release the main current meter mooring, a C-3 guard buoy with one current meter was brought aboard and then dragging began for the unreleased mooring. At dark the ship headed for COC-1, and the CODE Central CTD section was completed early on 12 April. After two hours of unsuccessful dragging for the C-3 mooring at daybreak, the second C-3 guard buoy was brought aboard and the ship departed for San Francisco, arriving at Yerba Buena Island in the early evening of 12 April.

Table 2. List of CTD stations during WELOC-83 LEG 1, showing date and time, location, wind speed and direction, atmospheric pressure, and wet and dry bulb air temperature.

Date	Time (GMT)	Station		Location		Wind		Atm Pressure (mb)	Air Temp (C°)	
		No.	Name	Lat. (°N)	Long. (°W)	Dir (°T)	Spd kts		Dry	Wet
Jan 11	0755	1	FM-9	43 13.0	125 10.0	Airs	-	1028.0	9.7	8.3
	0935	2	FM-8	43 13.0	124 59.9	000	6	1027.0	10.5	9.1
	1114	3	FM-7	43 13.0	124 50.0	120	7	1026.4	11.6	9.2
	1209	4	FM-6	43 13.0	124 45.0	Airs	-	1026.2	11.2	8.3
	1259	5	FM-5	43 13.0	124 40.0	-	-	1026.2	11.4	8.2
	1342	6	FM-4	43 13 0	124 35.0	Airs	-	1025.2	11.4	8.0
	1430	7	FM-3	43 13.0	124 30.0	090	10	1025.9	11.2	7.5
	1510	8	FM-1	43 13.0	124 26.1	090	9	1026.0	11.4	6.8
	2326	9	CR-1	41 54.0	124 18.1	320	5	1021.0	-	-
Jan 12	0026	10	CR-2	41 54.0	124 24.0	340	8	1020.7	13.0	10.9
	0123	11	CR-3	41 54.0	124 29.2	340	10	1020.7	13.0	10.7
	0240	12	CR-4	41 54.0	124 36.2	000	6	1020.0	12.9	10.6
	0358	13	CR-5	41 54.0	124 42.2	000	5	1020.0	13.1	10.8
	0521	14	CR-6	41 54.0	124 48.0	340	10	1019.0	12.8	11.2
	0709	15	CR-7	41 54.0	125 00.0	020	10	1018.6	13.0	11.4
	0843	16	CR-8	41 54.0	125 12.1	000	8	1018.0	12.8	11.3
	1012	17	CR-9	41 54.0	125 20.0	020	9	1017.8	13.3	11.3
	1633	18	EUR-7	40 52.0	124 56.0	170	12	1015.9	12.9	11.5
	1754	19	EUR-6	40 52.0	124 48.0	150	14	1016.4	14.2	12.4
	1917	20	EUR-5	40 52.0	124 40.0	180	15	1017.0	15.0	11.8
	2016	21	EUR-4	40 52.0	124 33.9	190	12	1017.0	15.1	11.8
	2116	22	EUR-3	40 52.0	124 27.9	190	12	1016.3	14.1	11.5
	2210	23	EUR-2	40 51.9	124 21.9	180	14	1016.2	15.2	11.4
	2259	24	EUR-1	40 52.0	124 15.9	230	14	1016.7	15.2	10.6
Jan 13	1035	25	AR-1	38 57.0	123 46.2	060	5	1020.0	11.4	8.6
	1111	26	AR-2	38 55.8	123 49.3	Airs	-	1020.3	12.5	9.6
	1147	27	AR-3	38 54.9	123 52.3	Airs	-	1020.2	13.0	10.4
	1223	28	AR-4	38 53.9	123 55.3	Airs	-	1020.2	13.4	11.6
	1307	29	AR-5	38 53.0	123 59.1	Airs	-	1020.5	13.5	11.8
	1402	30	AR-6	38 52.0	124 02.3	Airs	-	1020.6	13.0	11.4
	1523	31	AR-7	38 50.2	124 08.2	Airs	-	1021.0	13.2	10.6
	1852	32	COC-9	38 24.0	123 49.2	120	8	1021.1	13.4	11.0
	2007	33	COC-8	38 27.2	123 44.4	140	4	1021.2	14.6	11.4
	2120	34	COC-7	38 30.0	123 39.0	Airs	-	1020.6	13.5	10.6
	2213	35	COC-6	38 32.7	123 36.2	Airs	-	1020.2	14.5	12.0
	2249	36	COC-5	38 34.7	123 33.3	280	6	1020.0	16.0	12.6
	2323	37	COC-4	38 36.2	123 30.7	Airs	-	1020.0	13.8	11.1
Jan 14	2354	38	COC-3	38 37.5	123 28.9	Airs	-	1020.0	14.8	11.8
	0021	39	COC-2	38 38.9	123 26.9	Airs	-	1019.8	15.0	12.4
	0047	40	COC-1	38 39.8	123 25.5	Airs	-	1019.5	13.8	12.1
	0821	41	HM-10	37 17.2	123 21.4	040	12	1019.0	14.3	11.5
	0935	42	HM-9	37 18.0	123 15.4	040	12	1018.5	14.2	11.5
	1048	43	HM-8	37 18.8	123 09.2	040	12	1018.1	14.3	11.6
	1203	44	HM-7	37 19.7	123 03.1	050	10	1018.0	13.8	11.1
	1310	45	HM-6	37 20.6	122 56.9	040	12	1018.0	14.6	11.6
	1409	46	HM-5	37 21.4	122 50.7	050	12	1018.0	13.8	11.8
	1455	47	HM-4	37 22.2	122 44.9	050	9	1018.0	14.2	11.1

Date	Time (GMT)	Station No. Name	Location		Wind		Atm Pressure (mb)	Air Temp (C°)	
			Lat. (°N)	Long. (°W)	Dir (°T)	Spd kts		Dry	Wet
Jan 15	1543	48	HM-3	37 23.0	122 39.1	Airs	-	1018.0	13.9 10.9
	1628	49	HM-2	37 23.8	122 33.4	060	10	1017.5	13.3 9.7
	1710	50	HM-1	37 24.5	122 28.1	050	9	1017.6	14.2 9.5
	0654	51	PR-9	34 45.0	122 00.0	Airs	-	1015.5	15.6 14.3
	0803	52	PR-9	34 45.0	122 00.0	-	-	-	15.6 14.4
	1041	53	PR-8	34 45.0	121 47.9	Airs	-	1015.0	15.6 14.4
	1230	54	PR-7	34 45.0	121 36.0	Airs	-	1015.0	15.0 14.4
	1402	55	PR-6	34 45.0	121 24.0	Airs	-	1015.0	16.4 14.7
	1529	56	PR-5	34 45.0	121 12.0	160	10	1015.0	17.3 14.5
	1645	57	PR-4	34 45.0	121 00.0	180	7	1015.3	16.3 14.8
	1738	58	PR-3	34 45.0	120 54.0	180	6	1015.8	16.5 14.8
	1833	59	PR-2	34 45.0	120 48.0	200	6	1015.9	17.4 15.1
	1917	60	PR-1	34 45.0	120 42.0	Airs	-	1015.1	16.2 14.5
Jan 16	1259	61	DM-6	32 40.0	117 51.0	Airs	-	1011.8	- -
	1427	62	DM-5	32 45.0	117 41.0	Airs	-	1012.0	15.6 15.5
	1546	63	DM-4	32 50.1	117 31.1	Airs	-	1012.2	17.5 15.3
	1651	64	DM-3	32 53.0	117 25.0	Airs	-	1012.0	17.0 15.2
	1743	65	DM-2	32 55.0	117 21.0	Airs	-	1012.5	17.9 15.3
	1820	66	DM-1	32 56.0	117 19.0	Airs	-	1013.0	17.4 14.5

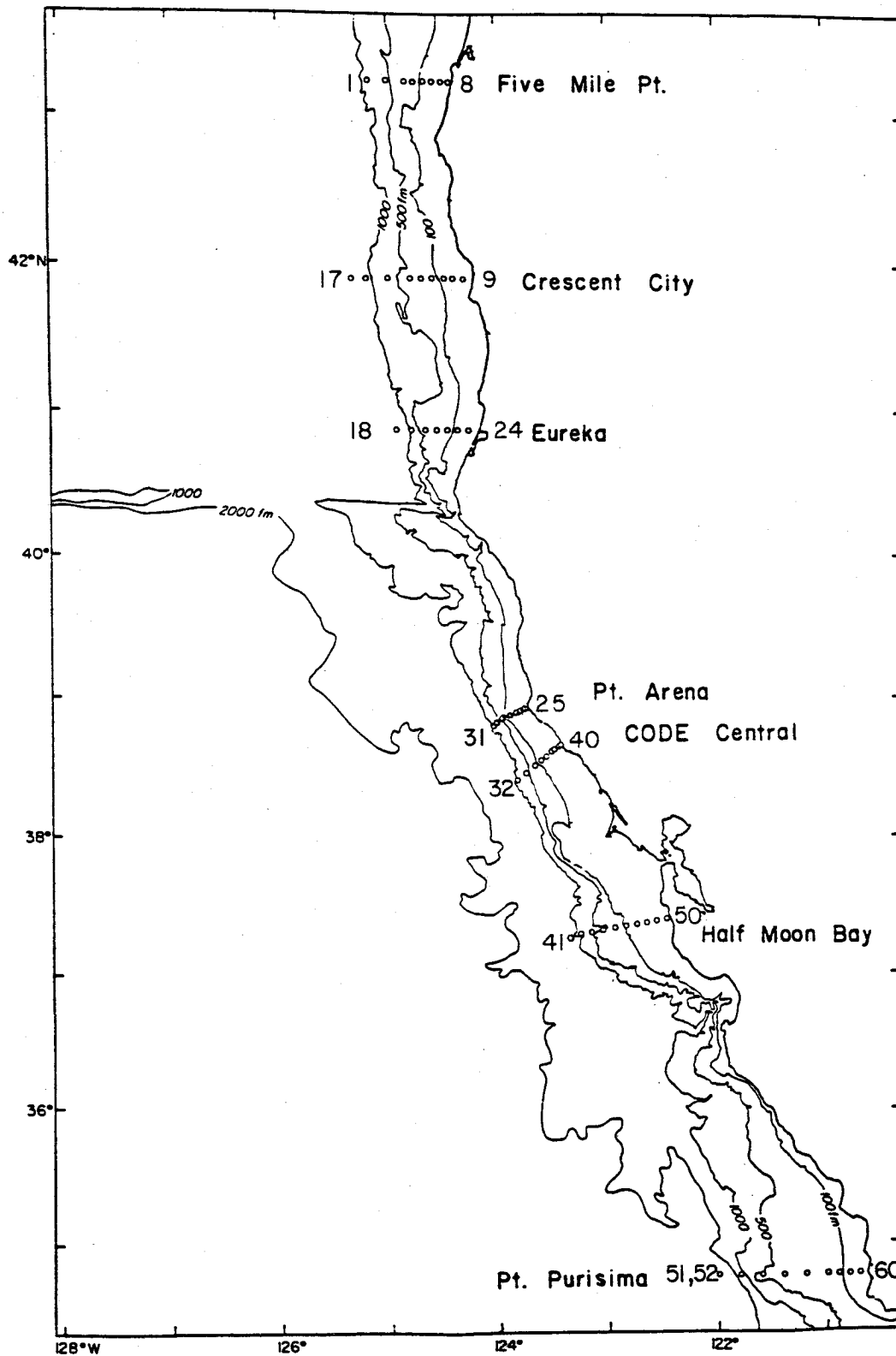


Figure 1. Location of CTD stations during WELOC 83 Leg 1, 11-16 January 1983. Additional CTD stations (61-66) were made along section DM, off Del Mar, California near 33°N.

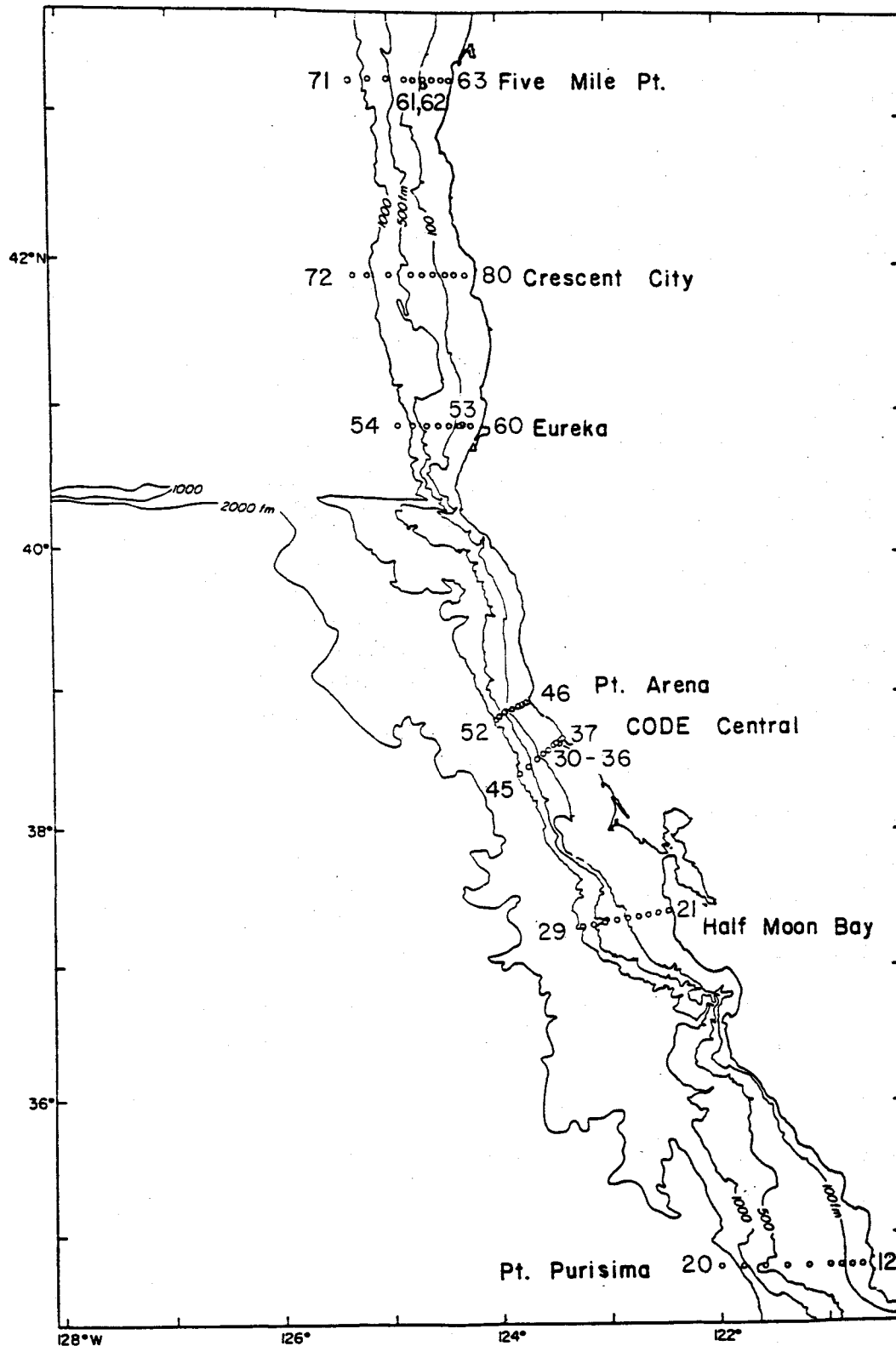


Figure 2. Location of CTD stations during WELOC 85, Legs 4-6, 6-18 April 1983. Additional CTD sections were made along CalCOFI Line 90 near 33°30'N (Stations 1-11) and along the Newport Hydro Line at 44°39'N (Stations 81-96).

Table 3. List of CTD stations during WELOC-83 LEGS 4-6 showing date and time, location, wind speed and direction, atmospheric pressure, and for stations 1 - 11, wet and dry bulb air temperature.

Date	Time (GMT)	Station No.	Station Name	Location		Wind		Atm Pressure (mb)	Air Temp (C°)	
				Lat. (°N)	Long. (°W)	Dir (°T)	Spd kts		Dry	Wet
Apr 6	1548	1	90.65	32 14.6	120 18.0	350	15	1013.5	15.8	12.6
	1916	2	90.60	32 25.0	119 57.3	355	12	1014.2	16.9	11.6
	2253	3	90.55	32 35.0	119 37.0	330	14	1014.4	16.5	12.6
Apr 7	0039	4	90.53	32 39.0	119 28.4	320	15	1014.0	16.3	13.2
	0412	5	90.45	32 54.5	118 55.5	320	20	1014.0	15.7	12.1
	0610	6	90.42	33 00.5	118 43.3	310	20	1014.4	16.6	12.4
	0847	7	90.37	33 11.1	118 22.5	310	14	1014.1	15.6	13.0
	1024	8	90.35	33 14.0	118 15.0	310	8	1013.5	16.4	11.9
	1227	9	90.32	33 20.6	118 02.9	320	10	1014.0	15.5	13.1
	1407	10	90.30	33 25.0	117 53.5	Airs	-	1014.9	15.0	12.2
	1539	11	90.28	33 28.5	117 46.7	Airs	-	1015.0	15.0	10.9
Apr 9	2055	12	PR-1	34 45.1	120 42.1	-	0	1021.0		
	2138	13	PR-2	34 45.0	120 48.0	270	6	1022.0		
	2226	14	PR-3	34 45.0	120 54.0	Airs	-	1020.8		
	2318	15	PR-4	34 45.0	121 00.0	Airs	-	1020.5		
Apr 10	0043	16	PR-5	34 45.0	121 12.0	Airs	-	1020.5		
	0212	17	PR-6	34 45.0	121 24.0		-	1020.2		
	0338	18	PR-7	34 45.0	121 36.0			1020.0		
	0525	19	PR-8	34 45.0	121 47.9	Var	4	1019.7		
	0707	20	PR-9	34 45.1	122 00.0	340	8	1019.5		
	2221	21	HM-1	37 24.5	122 28.2	310	15	1019.2		
	2301	22	HM-2	37 23.7	122 33.4	310	15	1019.0		
	2345	23	HM-3	37 22.9	122 39.1	315	15	1019.0		
Apr 11	0030	24	HM-4	37 22.2	122 44.9	310	16	1018.9		
	0116	25	HM-5	37 21.4	122 50.6	310	15	1018.2		
	0205	26	HM-6	37 20.6	122 56.8	310	15	1018.5		
	0309	27	HM-7	37 19.7	123 04.6	310	17	1018.3		
	0425	28	HM-8	37 18.77	123 09.2	315	16	1017.8		
	0544	29	HM-9	37 18.0	123 15.4	310	18	1014.5		
	1436	30-36	C-3S	38 36.2	123 27.1	330	16	1015.5		
	0326	37	COC-1	38 39.8	123 25.5	320	28	1015.5		
Apr 12	0401	38	COC-2	38 38.8	123 24.0	330	22	1015.5		
	0439	39	COC-3	38 37.5	123 28.9	325	20	1016.0		
	0515	40	COC-4	38 36.2	123 30.8	320	28	1016.0		
	0558	41	COC-5	38 34.4	123 33.3	335	30	1016.0		
	0647	42	COC-6	38 32.7	123 36.2	340	28	1016.5		
	0745	43	COC-7	38 30.3	123 39.6	330	26	1016.9		
	0848	44	COC-8	38 27.1	123 44.5	340	30	1016.9		
	1013	45	COC-9	38 23.9	123 49.3	340	26	1017.2		
Apr 14	0028	46	AR-1	38 56.8	123 46.2	330	14	1019.5		
	0100	47	AR-2	38 55.7	123 49.3	330	14	1020.0		
	0137	48	AR-3	38 54.8	123 52.6	330	12	1020.0		
	0212	49	AR-4	38 53.8	123 55.8	330	13	1020.0		
	0250	50	AR-5	38 53.0	123 59.0	330	12	1020.0		
	0345	51	AR-6	32 51.9	124 02.4	335	17	1020.5		
	0506	52	AR-7	38 50.2	124 08.2	340	17	1020.5		
	1829	53	EMS	40 52.4	124 20.1	220	4	1021.0		

Date	Time (GMT)	Station		Location		Wind		Atm Pressure (mb)
		No.	Name	Lat. (°N)	Long. (°W)	Dir (°T)	Spd kts	
Apr 14	1909	54	EUR-1	40 52.0	124 16.0	230	4	1020.0
	1953	55	EUR-2	40 52.0	124 22.0	Calm	-	1020.8
	2038	56	EUR-3	40 51.9	124 28.0	Calm	-	1020.8
	2131	57	EUR-4	40 52.0	124 34.0	310	5	1020.6
	2226	58	EUR-5	40 52.0	124 40.0	310	7	1020.4
	2335	59	EUR-6	40 52 0	124 48.0	Airs	-	1020.1
Apr 15	0026	60	EUR-7	40 52.0	124 56.0	Airs	-	1020.1
	1511	61	CBM	43 09.2	124 34.7	060	10	1018.8
	1916	62	CBM	43 09.5	124 34.6	000	8	1018.2
	2015	63	FM-1	43 13.1	124 25.9	000	16	1017.5
	2050	64	FM-3	43 12.9	124 30.1	000	13	1017.4
	2126	65	FM-4	43 13.0	124 35.0	000	14	1017.4
	2204	66	FM-5	43 13.0	124 40.1	350	15	1017.4
	2244	67	FM-6	43 12.8	124 45.4	350	14	1017.4
Apr 16	0060	68	FM-7	43 13.0	124 50.0	350	12	1018.0
	0110	69	FM-8	43 13.0	125 00.0	330	12	1017.7
	0236	70	FM-9	43 13.0	125 10.0	340	10	1018.0
	0401	71	FM-10	43 13.0	125 20.1	030	20	1017.7
	1141	72	CR-9	41 54.0	125 20.0	060	10	1016.6
	1302	73	CR-8	41 54.0	125 12.0	Airs	-	1017.0
	1448	74	CR-7	41 54.0	125 00.0	Airs	-	1017.5
	1615	75	CR-6	41 54.0	124 48.0	-	-	1017.0
	1717	76	CR-5	41 54.0	124 42.0	-	-	1016.7
	1818	77	CR-4	41 54.0	124 36.0	-	-	1016.7
	1915	78	CR-3	41 54.0	124 29.0	-	-	1016.2
	1952	79	CR-2	41 54.0	124 24.0	330	5	1016.6
	2033	80	CR-1	41 54.0	124 18.0	330	8	1016.0
Apr 17	1753	81	NH-165	44 39.8	127 54.4	030	18	1007.9
	2032	82	NH-145	44 39.1	127 26.7	020	18	1006.4
	2319	83	NH-125	44 39.1	126 58.7	030	12	1005.2
Apr 18	0158	84	NH-105	44 39.0	126 30.5	Airs	-	1015.0
	0427	85	NH-85	44 39.1	126 24.8	210	19	1006.5
	0656	86	NH-65	44 39.1	125 34.3	180	12	1007.2
	0845	87	NH-55	44 39.1	125 20.1	200	12	1006.2
	1028	88	NH-45	44 39.1	125 06.2	160	12	1006.5
	1211	89	NH-35	44 39.0	124 52.7	160	10	1006.2
	1334	90	NH-25	44 39.1	124 38.7	Airs	-	1006.0
	1442	91	NH-20	44 39.1	124 31.8	Airs	-	1006.0
	1535	92	NH-15	44 39.1	124 24.7	Airs	-	1005.8
	1641	93	NH-10	44 39.1	124 17.7	-	-	1005.8
	1737	94	NH-5	44 39.1	124 10.6	Calm	-	1005.6
	1810	95	NH-3	44 39.1	124 07.8	Calm	-	1005.7
	1838	96	NH-1	44 39.1	124 05.9	Calm	-	1005.9

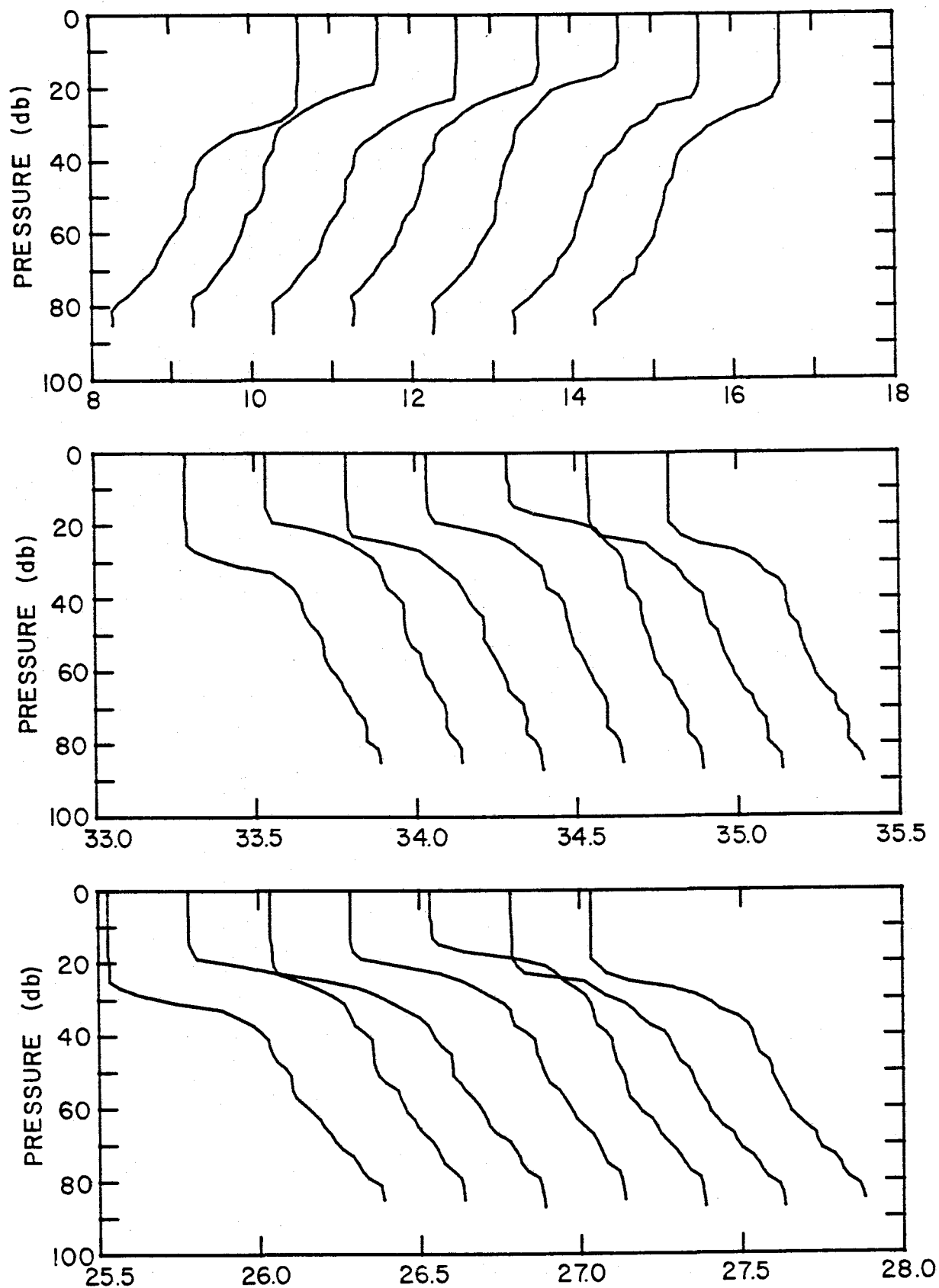


Figure 3. Vertical profiles of Stations 30-36, WELOC 83, Leg 5, near the C-3 mooring, showing temperature, salinity and sigma- θ with offsets of 1°C , 0.25 ‰ and 0.25 respectively for successive stations.

After exchanging mooring personnel, the WECOMA departed on leg 6 of WELOC 83 early on 13 April, headed for the Arena CTD line (Stations 46-52) which was completed that evening. On 14 April the Eureka shallow current meter mooring was recovered and the Eureka CTD section completed (Stations 54-60). The Coos Bay shallow current meter mooring was replaced and Coos Bay (FM) line (Stations 63-71) finished on 15 April. From 16-18 April CTD sections off of Crescent City (Stations 72-80) and Newport (Stations 81-96) were completed, and at noon on 18 April the R/V WECOMA arrived at Newport ending the WECOMA Long Cruise of 1983.

Table 4. Characteristics of the CTD probe used.

Probe	Interval	Temperature Time Constant		<u>Sensors</u>		
				P	T	C
2561	32 ms	280 ms	Range:	1600 db	-2 to 30°C	1 to 65 mmhos
			Resolution:	0.025 db	.0005°C	.005 mmhos
			Accuracy:	±1.6 db	±.005°C	±.001 mmhos

Table 5. Summary of the comparisons between the Neil Brown CTD probe and *in situ* calibration data.

	<u>No. of Samples</u>	<u>Mean Difference</u>	<u>Standard Deviation</u>
Sample Set #1, Leg 1			
Temperature (°C)	63	-0.010	0.012
Conductivity (mmhos cm ⁻²)	63	+0.007	0.003
Salinity (‰)	63	+0.007	0.003
Sample Set #1, Legs 4,5,6			
Temperature (°C)	79	-0.011	0.015
Conductivity (mmhos cm ⁻²)	175	+0.006	0.004
Salinity (‰)	175	+0.007	0.004

Table 6. Summary of calibration data for Sea Tech Transmissometer #33D

	<u>Path: 25 cm Air</u>		<u>Path Blocked</u>	
	<u>Volts</u>	<u>CTD Output</u>	<u>Volts</u>	<u>CTD Output</u>
Manufacturer (March 1983)	4.761	--	-0.0005	--
Post-cruise (April 1983)	4.800	3929	-0.0005	0000

SAMPLING PROCEDURES, CALIBRATION AND DATA PROCESSING

A Neil Brown Instruments Mark IIb conductivity-temperature depth probe (CTD) was used to obtain continuous profiles of temperature and salinity versus pressure at each station. Sampling procedures were identical with those described by Fleischbein et al. (1981), except that probe #2561 fitted with a 1600 db pressure sensor was used for all stations. Characteristics of the probe used are presented in Table 4. During Leg 4, (Stations 1-11, Table 3) the CTD was equipped with a Beckman dissolved oxygen probe and a Sea Tech, Inc. 25-cm transmissometer (S/N 33D). On Legs 5 and 6 (Stations 12-96) the transmissometer was replaced with a Benthos Model 2110 altimeter.

The CTD probe was calibrated for pressure, temperature and conductivity by the manufacturer in November 1982. *In situ* calibration data were also collected for the temperature and conductivity sensors. At most stations during Leg 1 and all stations of Legs 5 and 6, a Niskin bottle equipped with 3 protected reversing thermometers was mounted about 2 m above the CTD sensors to provide calibration samples. During stations 9-14, 51 and 52 of Leg 1 and 1-11 of Leg 4, a rosette water sampler was mounted with the CTD and water samples were drawn from the Niskin bottles on the rosette. The thermometers have an accuracy of $\pm 0.02^{\circ}\text{C}$ and are corrected using the results of calibrations done once every 3 years. Water sample salinity is determined by Guildline Model 8400 Autosol salinometers with precision of better than $\pm 0.002^{\circ}/\text{‰}$ and accuracy of $\pm 0.003^{\circ}/\text{‰}$, using equations given by Bennet (1976).

CTD data are recorded at the actual sample depth after the bottle is tripped. Occasionally due to large wire angles, the CTD and sample bottles

do not remain at the same depth (and temperature) during soak time. When this resulted in relatively large differences between the sample and CTD temperature readings, these points were eliminated from the overall CTD-sample comparisons.

Duplicate salinity samples were drawn from one or more Niskin bottles at each station. All of set #1 of the duplicates from Legs 1, 4, 5 and half of Leg 6 were analyzed at sea on OSU's Autosol #1, and the sample set #1 from stations 65-96 of Leg 6 were run on OSU's Autosol #3. All of set #2 from Leg 1 and every fourth sample of set #2 from Legs 4, 5, 6 were run on Autosol #3 after the cruises to check the results of the analysis of set #1. Since the two sets of samples run were in agreement, no further analysis was done on set #2 and set #1 was used for the final comparison.

Results of the comparison between *in situ* sample data and the CTD output are summarized in Table 5. The sample conductivity was calculated using the CTD temperature and salinity. CTD conductivity was corrected for the pressure and temperature effects on the cell prior to the comparison. The temperature differences for Legs 1, 4, 5 and 6 had a mean of -0.01 which was also the mean difference for Legs 2 and 3 of WELOC 83. These temperature differences are within the sampling and instrument errors but due to the consistency of the mean offset, a post cruise temperature calibration of the CTD probe was done using a water bath and a Mueller Bridge. The calibration results are presented in Table 7, and since the mean temperature difference of +0.004 is within accuracy of the CTD temperature sensor no correction was applied to temperature prior to processing. The conductivity differences had means of +0.007 mmhos cm^{-2} (Leg 1) and +0.006 mmhos cm^{-2} (Legs 4, 5, 6) and standard deviations of 0.003 and 0.004 mmhos cm^{-2} respectively so conductivity corrections of +0.007 mmhos cm^{-2} for Leg 1 and

+0.006 mmhos cm^{-2} for Legs 4, 5, 6 were applied to the stations prior to processing the data.

The procedures for data processing the pressure, conductivity and temperature data were described in Gilbert, Huyer and Schramm (1981). The coefficient (α) for the conductivity filter for the probe was 0.900.

Table 7. Summary of the comparisons between the Neil Brown CTD temperature sensor and the Mueller Bridge, 27-28 April 1983.

<u>Temperature</u>		<u>ΔT</u>
Mueller Bridge, Corrected	CTD Probe	Bridge-CTD
0.257	0.251	.006
0.495	0.488	.007
2.086	2.081	.005
2.109	2.103	.006
5.126	5.121	.005
10.096	10.093	.003
10.097	10.094	.003
15.214	15.210	.004
15.214	15.211	.003
20.046	20.043	.003
20.045	20.043	.002
25.032	25.029	.003
25.029	25.025	.004
30.048	30.043	.005
30.045	30.040	.005
	mean	.004
	Std. Dev.	.001

Stations that had a delay or showed a sudden downward jump or shift in conductivity that was probably due to detritus in the cell were edited during processing and are presented in Table 8. These stations also have footnotes to the listings in the body of the data report. The salinity values of Station 59, Leg 1 from 9 to 49 db appear to be offset, but this was not noticed during sampling and since no recast was done, the data was not edited.

The altimeter and transmissometer data acquisition procedures were explained by Fleischbein et al. (1983) and were identical except the transmissometer used had a 25 cm path length. The transmissometer data was calibrated using the manufacturer's original calibration and the post-cruise air calibration data (Table 6) using the formula:

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

where VOLTS is the corrected voltage, AIROLD is the original voltage output in air (4.76 v.), AIRNEW is the post-cruise voltage output in air (4.80 v.), TVOLT is the uncorrected voltage output in air and ZERO is the voltage output of the transmissometer when the light path is blocked (-0.001 v.). The corrected voltage is then converted to a percent transmission by the formula: $\text{TRANS} = (\text{VOLTS}/5) * 100$.

The oxygen calibration samples were collected for stations 1-11, Leg 4 by technicians from SIO and UCSB, and the oxygen values were provided by Arnold Mantyla of SIO. The calibration of the oxygen sensor followed a procedure similar to that presented by Owens and Millard (1985), and their algorithm:

$$\text{OX} = [\text{Soc} \cdot (\text{oc} + \tau \frac{d\text{Oc}}{dt} + \text{Boc}) \cdot \text{OXSAT}(T, S) \cdot e^{[\text{tcor}(t+\text{wt})(\text{ot}-t) + \text{pcor} \cdot p]}$$

The best fit oxygen constants used in processing the data were $Boc = .00971671$.
 $Soc = 1.58707$, $pcor = .000497037$, $tcor = .00666183$, $wt = -1.40648$ and $TAU = 0$.
 Vertical profiles of dissolved oxygen and the oxygen sample data are presented
 for stations 1 - 11, leg 4 on pages 102 to 112.

Table 8. Stations edited during data processing.

<u>Station</u>	<u>Depth</u>	<u>Problem</u>	<u>Remedy</u>
<u>Leg 1</u>			
17	670 db	Mag. tape ran out	Stopped cast at 670 db, brought CTD up to 570 db and re-started. 15 min. gap at 647-649 db where recast data was joined to original cast data.
46	60 db	Jump in conductivity	Stopped cast at 66 db, CTD brought up to 25 db and re-started. 4 min. gap at 57-59 db where recast data was joined to original cast data.
<u>Leg 6</u>			
82	600 db	Jump in conductivity	Continued cast to 1000 db, made 2nd cast from 500 db to 1000 db. 14 min. gap at 577-579 db where recast data was joined to original cast data.

DATA PRESENTATION

The hydrographic data are summarized in vertical sections and offshore profiles. For each section, we show the vertical distribution of temperature, salinity, and sigma-theta, contoured by hand. Tick marks at the top of each section indicate station positions at which a CTD cast was made, and an inverted "T" mark at the maximum depth of each cast.

For each hydrographic section in Figures 1 and 2, we show offshore profiles of surface temperature, salinity, sigma-theta, and dynamic height at 0, 100 and 200 db relative to 500 db. Dynamic height at shallow stations was computed using the extrapolation method described by Reid and Mantyla (1976); the extrapolated portion of each profile is dashed.

Vertical profiles of temperature, salinity and sigma-theta vs. pressure are shown for each station. Header information for each station is as follows:

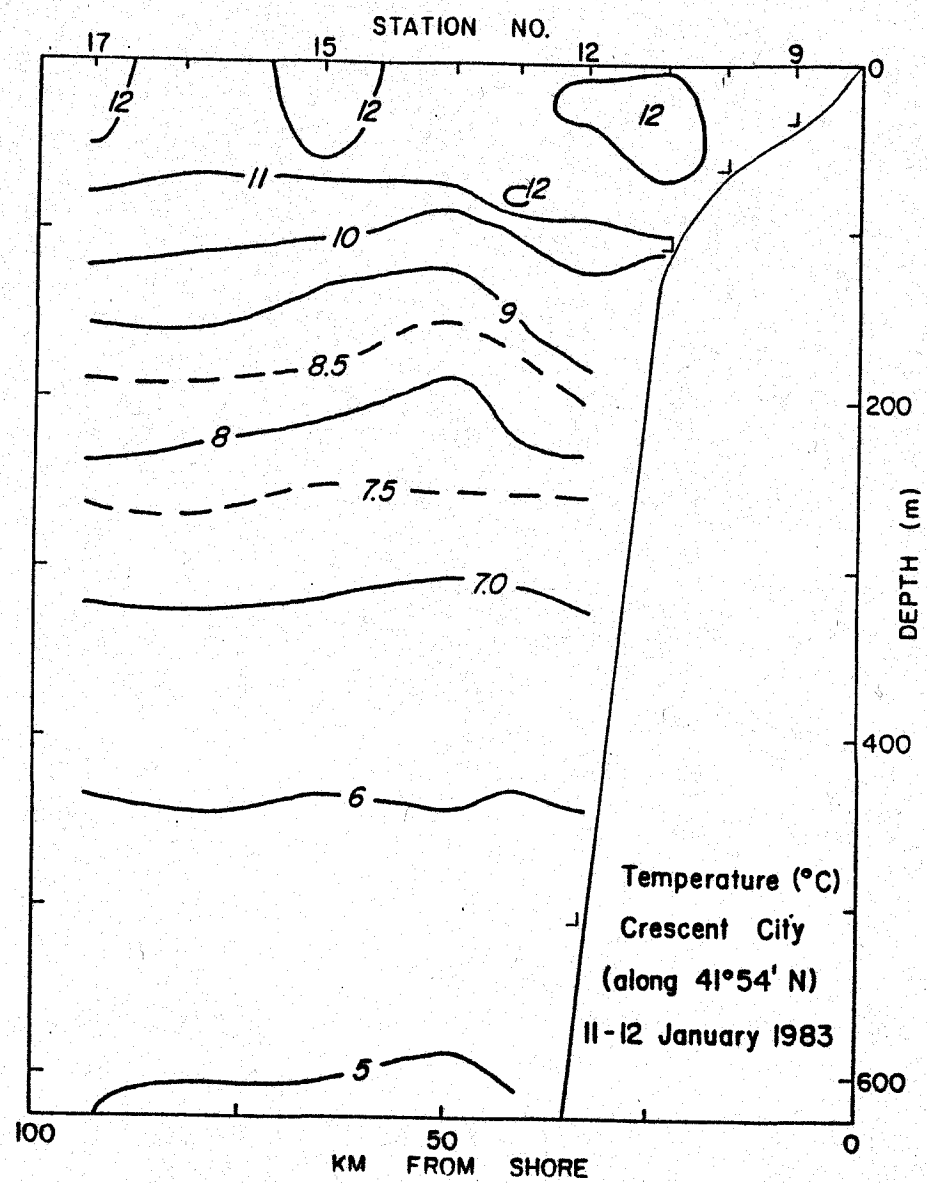
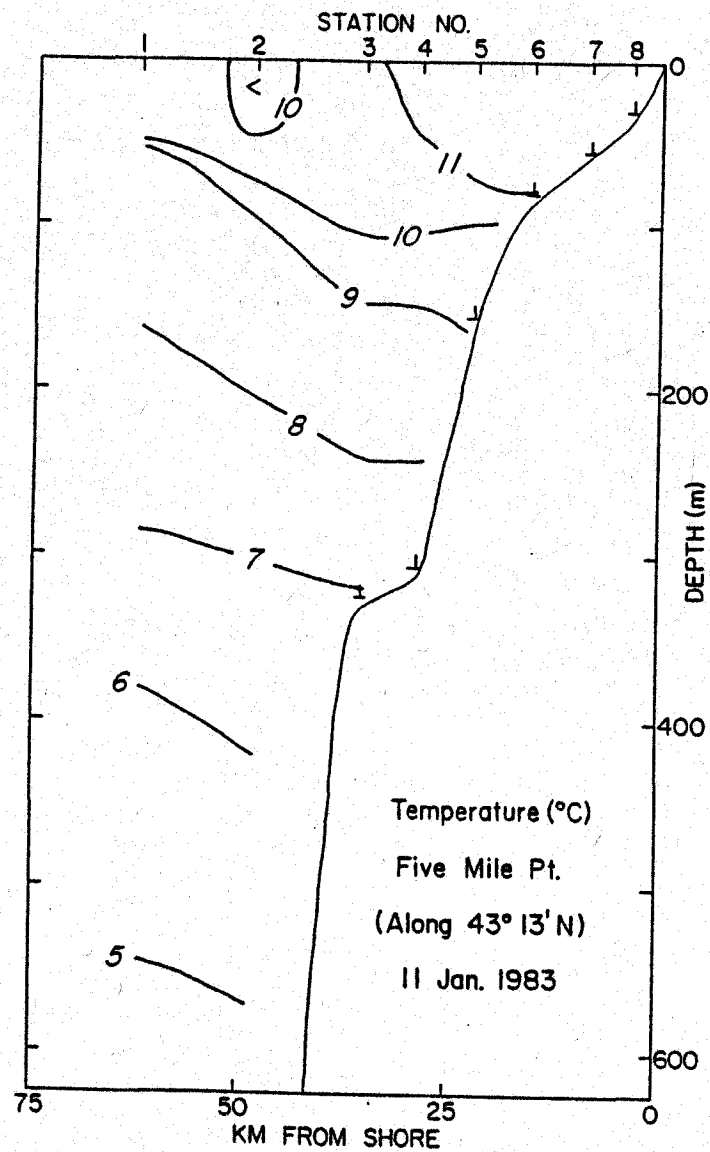
STA NO	Consecutive station number.
STATION	The CTD section name (initialed) and number of the station on the line (Refer to Figures 1 and 2).
LAT	Latitude in degrees and minutes north of the equator.
LONG	Longitude in degrees and minutes west of Greenwich.
DATE	Day/Month/Year.
TIME	Time in Greenwich Mean Time.
PROBE	CTD probe number.
DEPTH	Sonic depth in meters, corrected according to Matthews Tables appearing in the Handbook of Oceanographic Tables. U.S. Naval Oceanographic Office Publication SP-68 (1966).

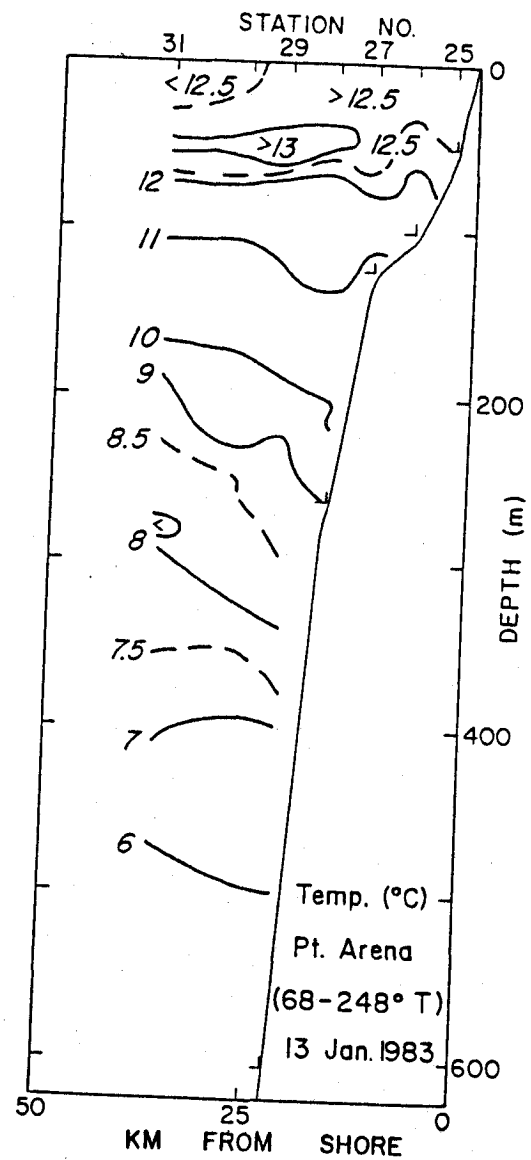
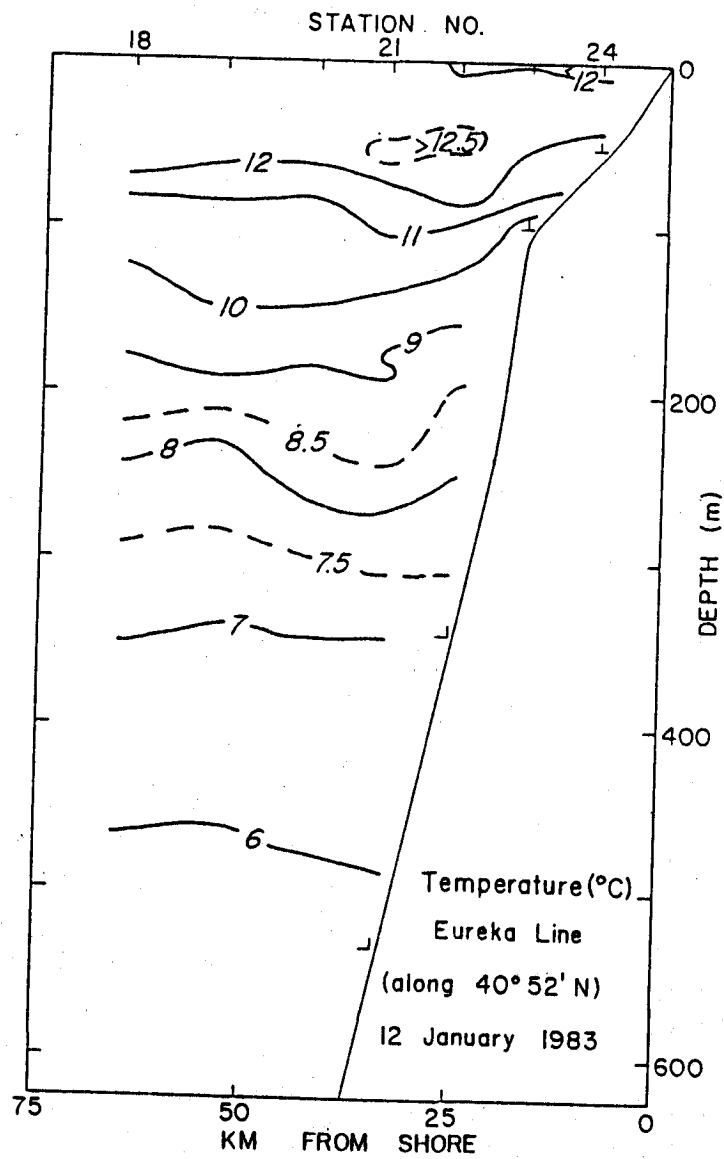
The data listing for each station gives values at standard pressures including observed and calculated parameters at the shallowest and deepest observations levels. Temperature ($^{\circ}\text{C}$) (TEMP), salinity (‰) (SAL), potential temperature ($^{\circ}\text{C}$) (POTEN TEMP), sigma-theta (SIGMA THETA), specific volume anomaly $\times 10^5$ (SVA) and dynamic height (DELD) in dynamic meters are given for each pressure (PRESS) in decibars. Computed parameters are calculated from the complete data array.

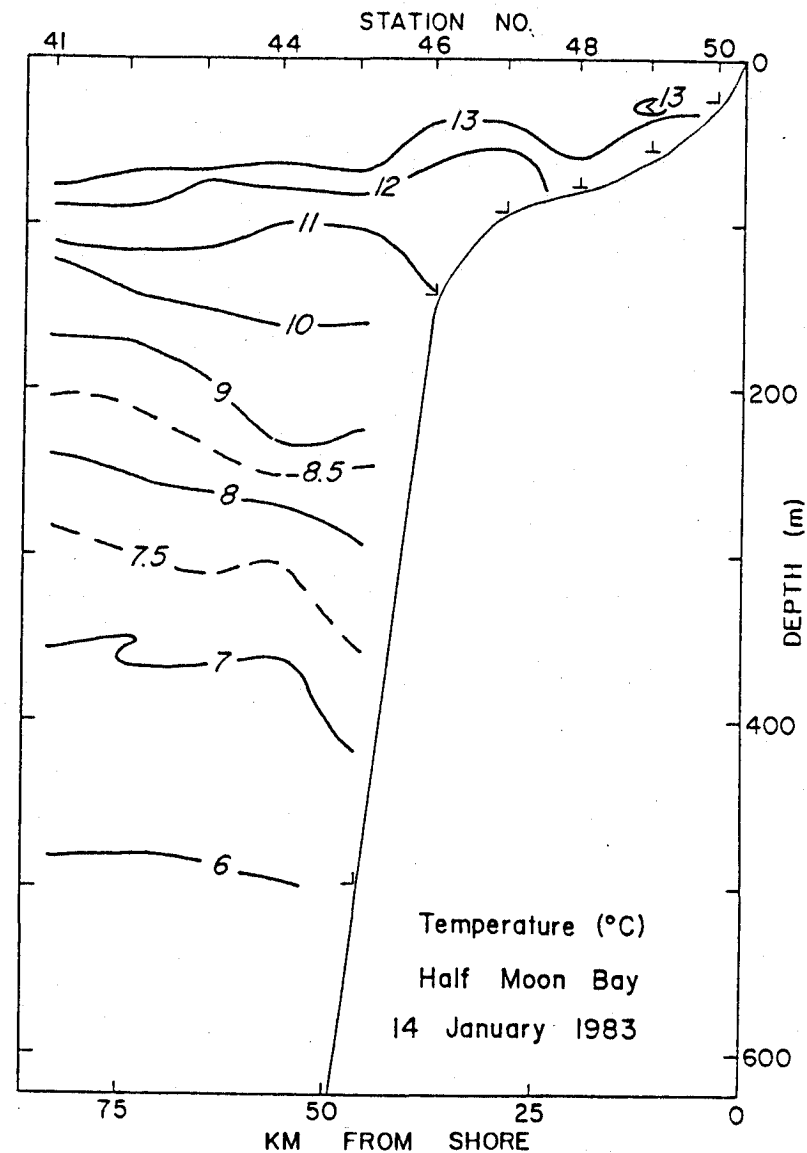
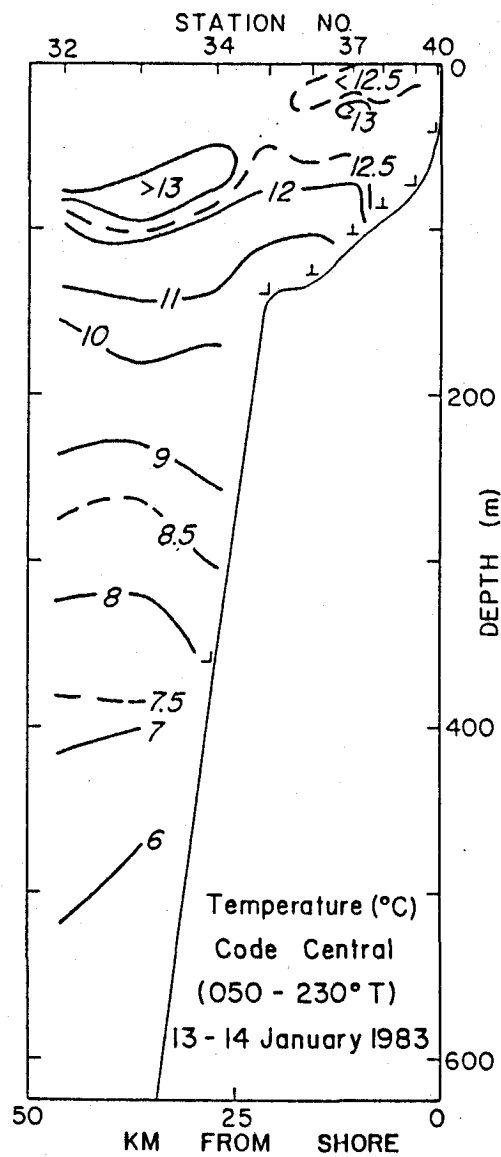
Vertical profiles of dissolved oxygen and transmission are also presented for Stations 1-11, Leg 4. The oxygen values of the calibration samples are represented by a circle on the profiles. The data listings for these stations include dissolved oxygen (ml/l) (O2) and transmission (%) (TRN) values at standard pressures.

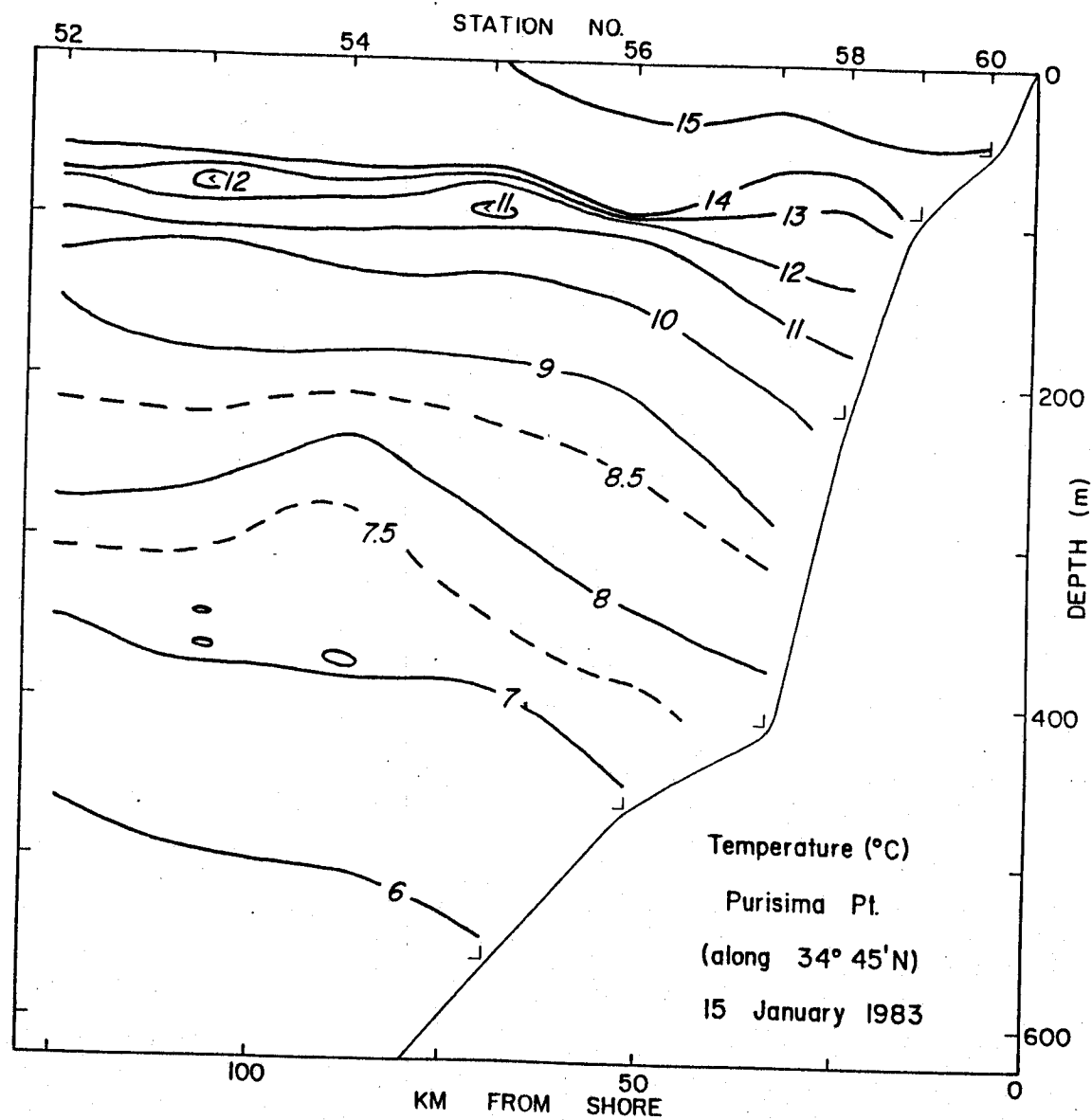
VERTICAL SECTIONS

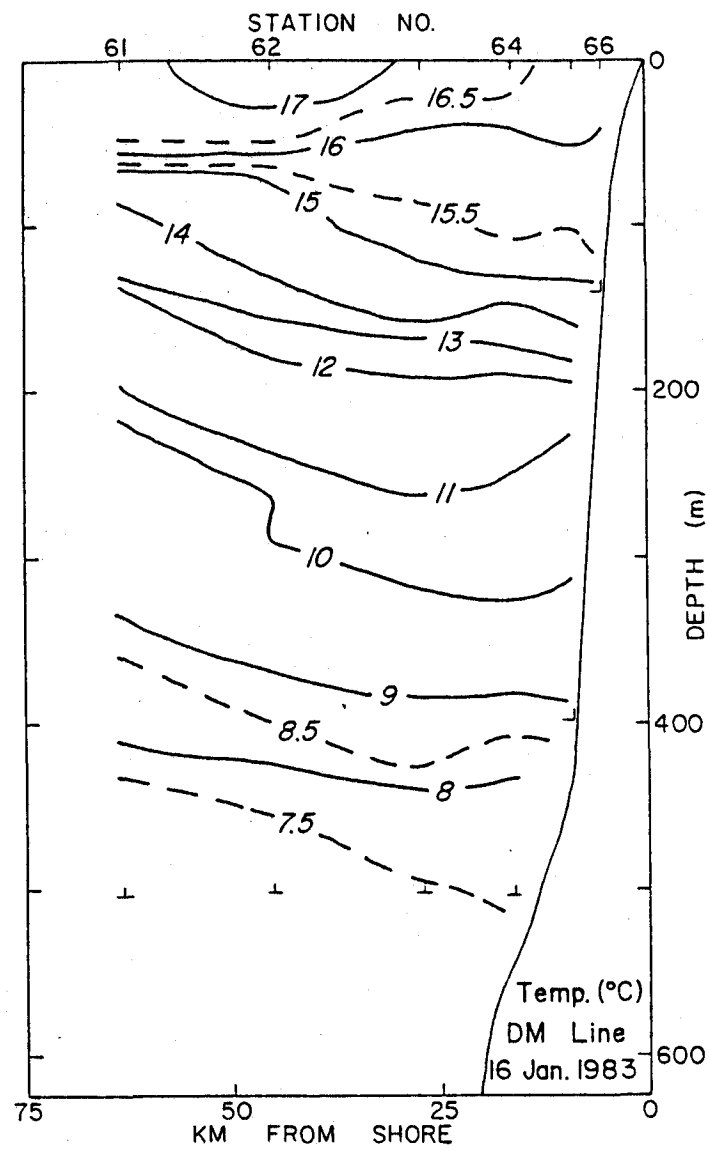
Leg 1

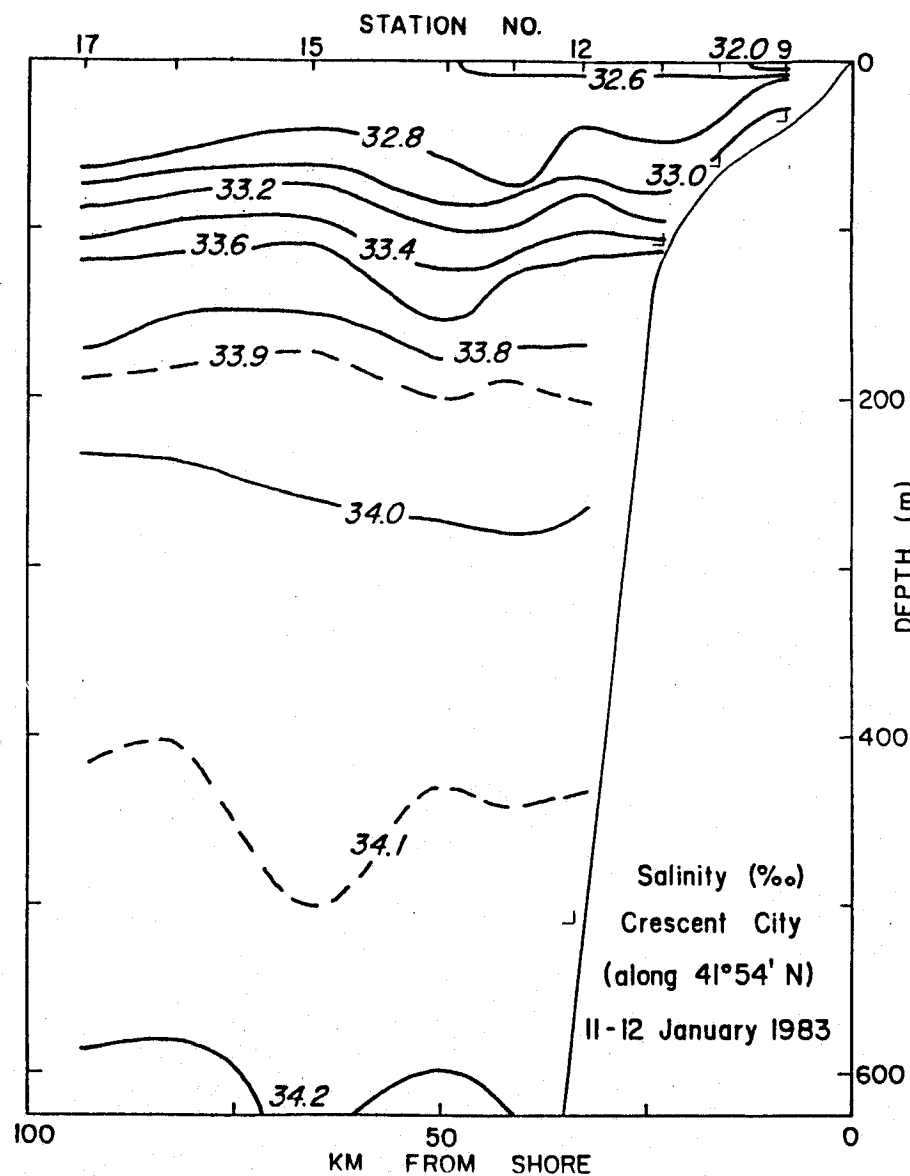
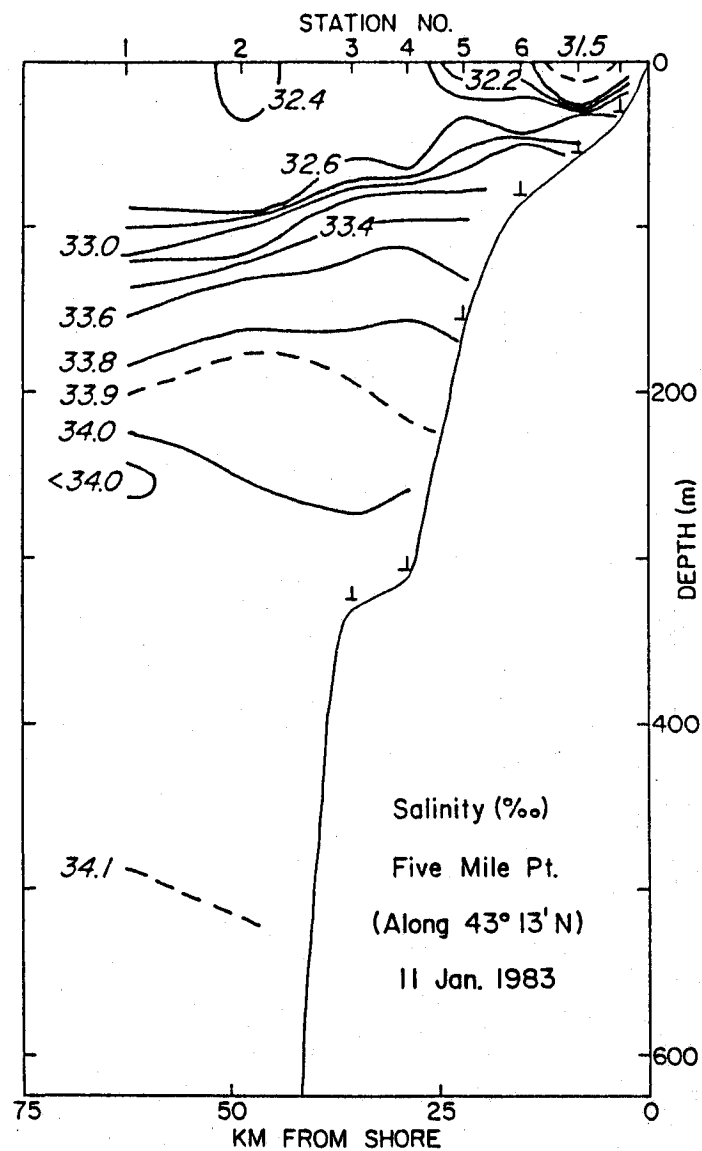


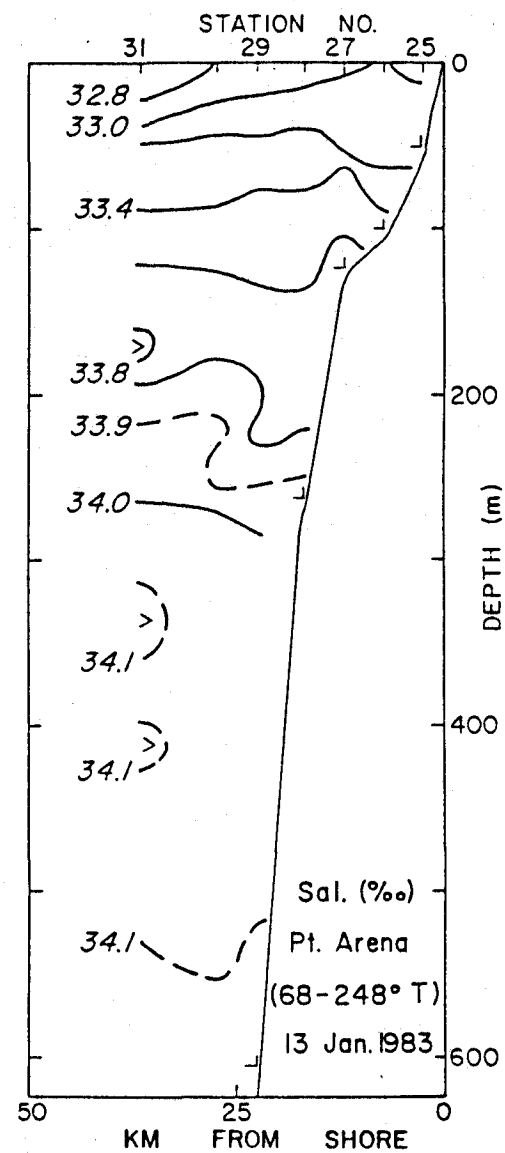
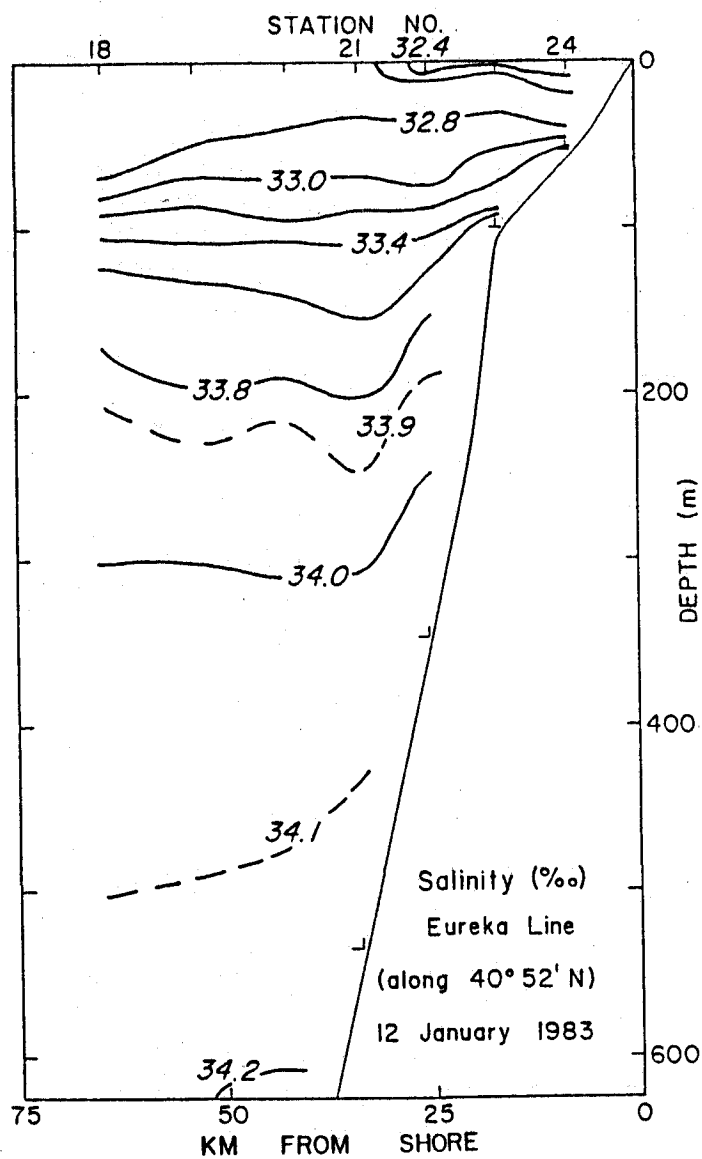


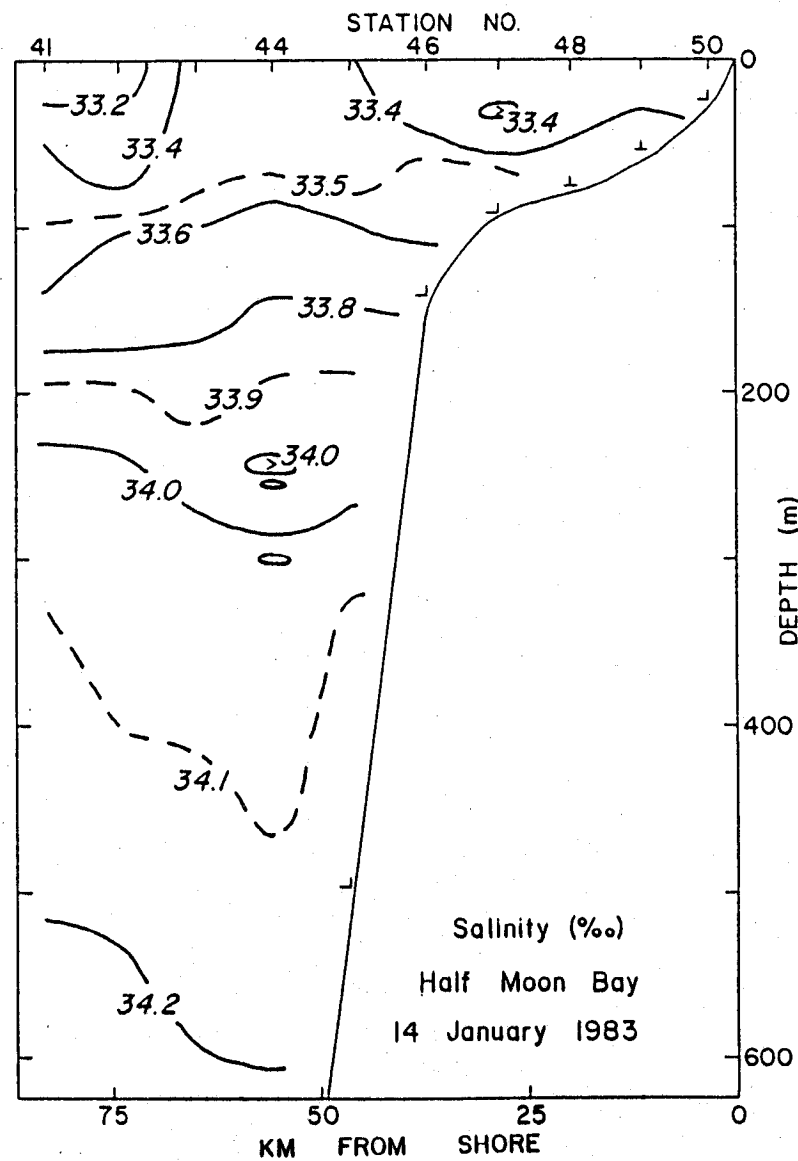
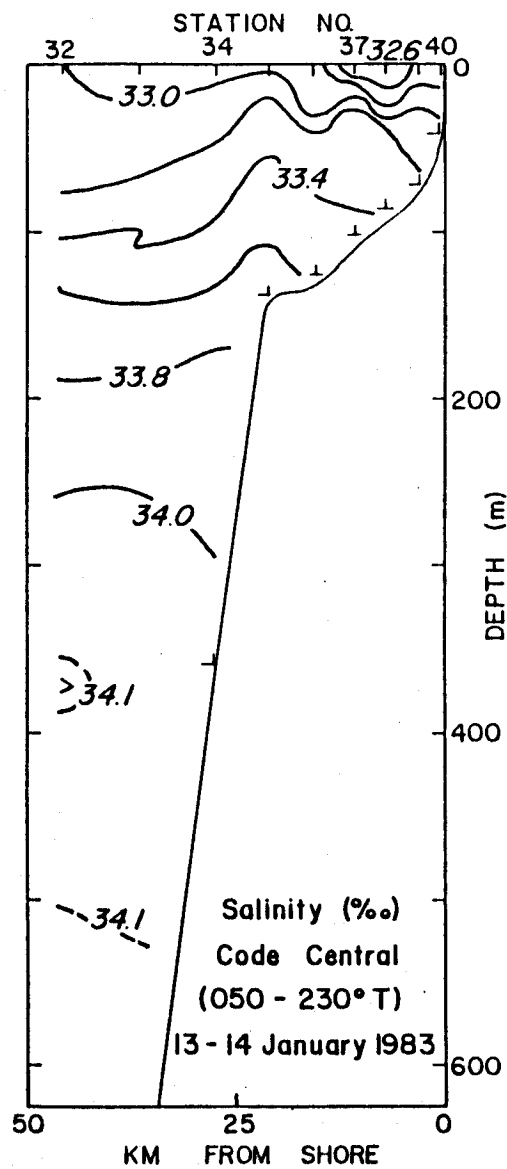


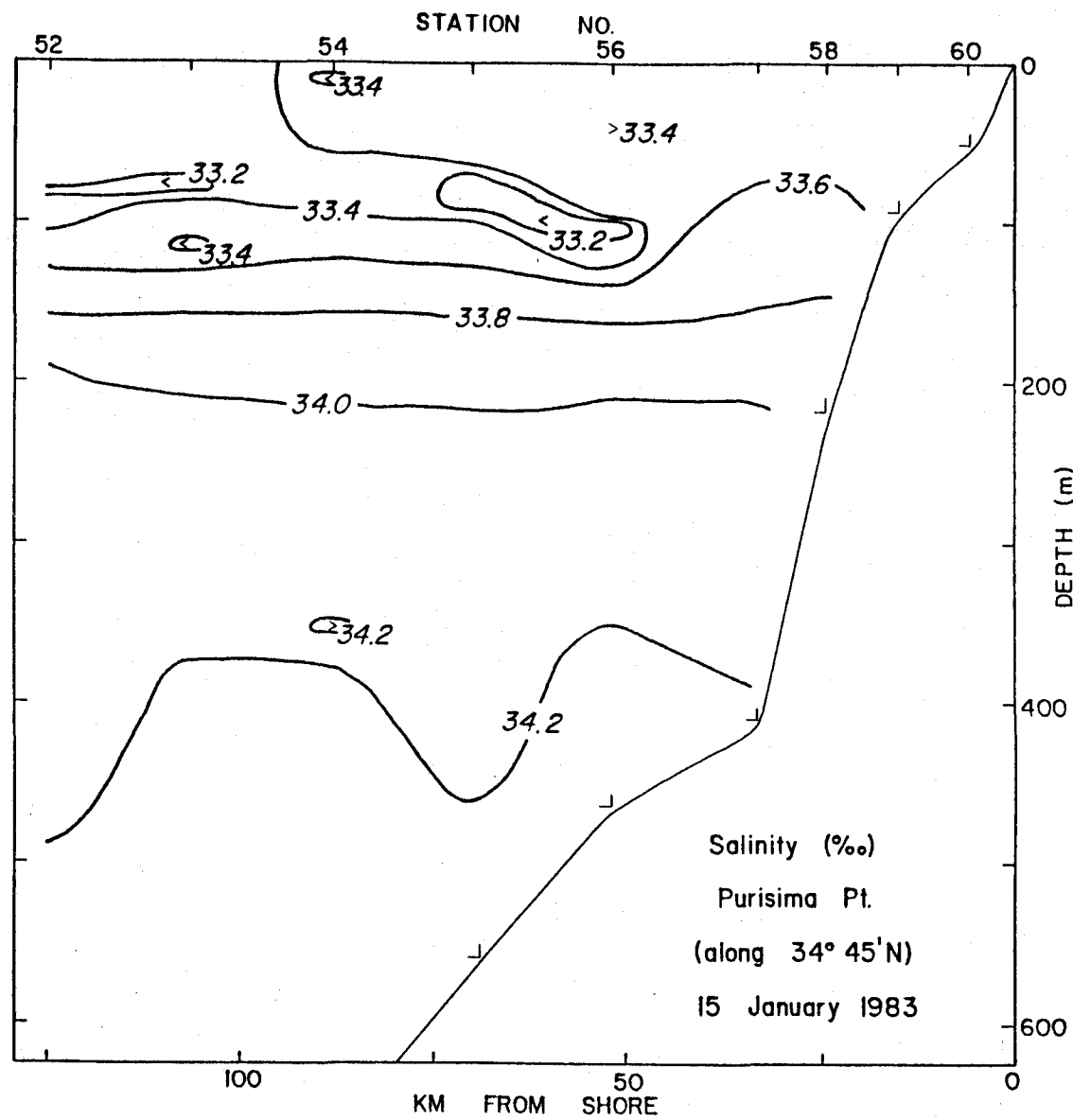


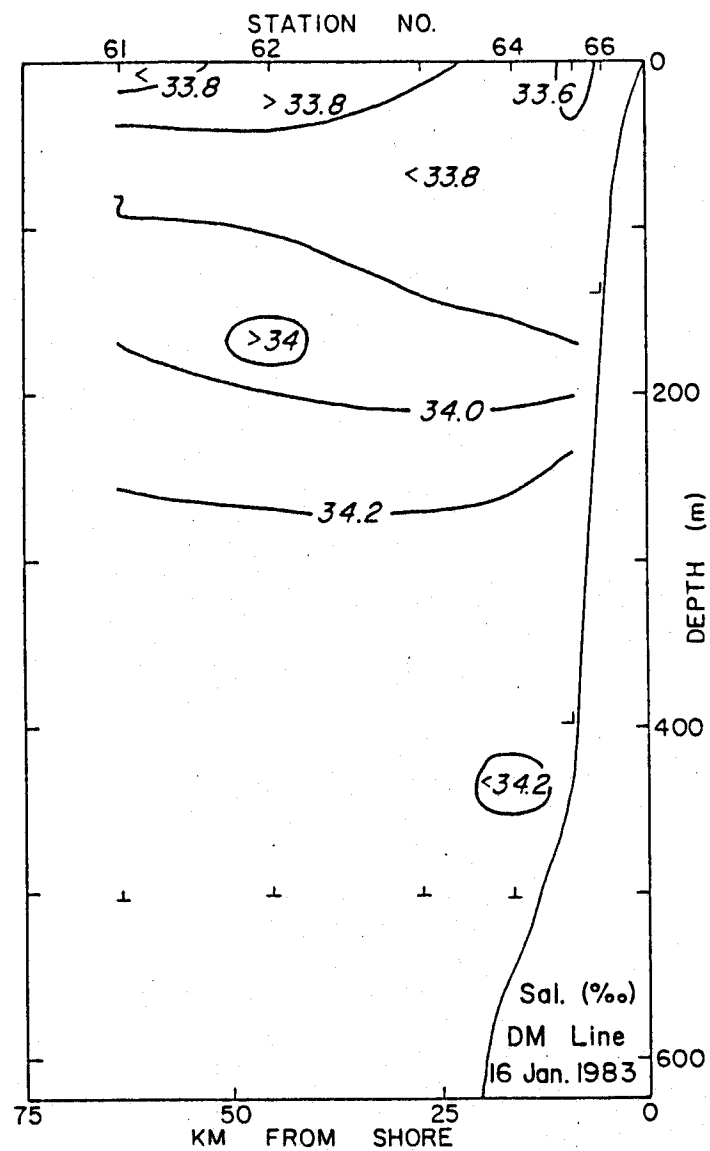


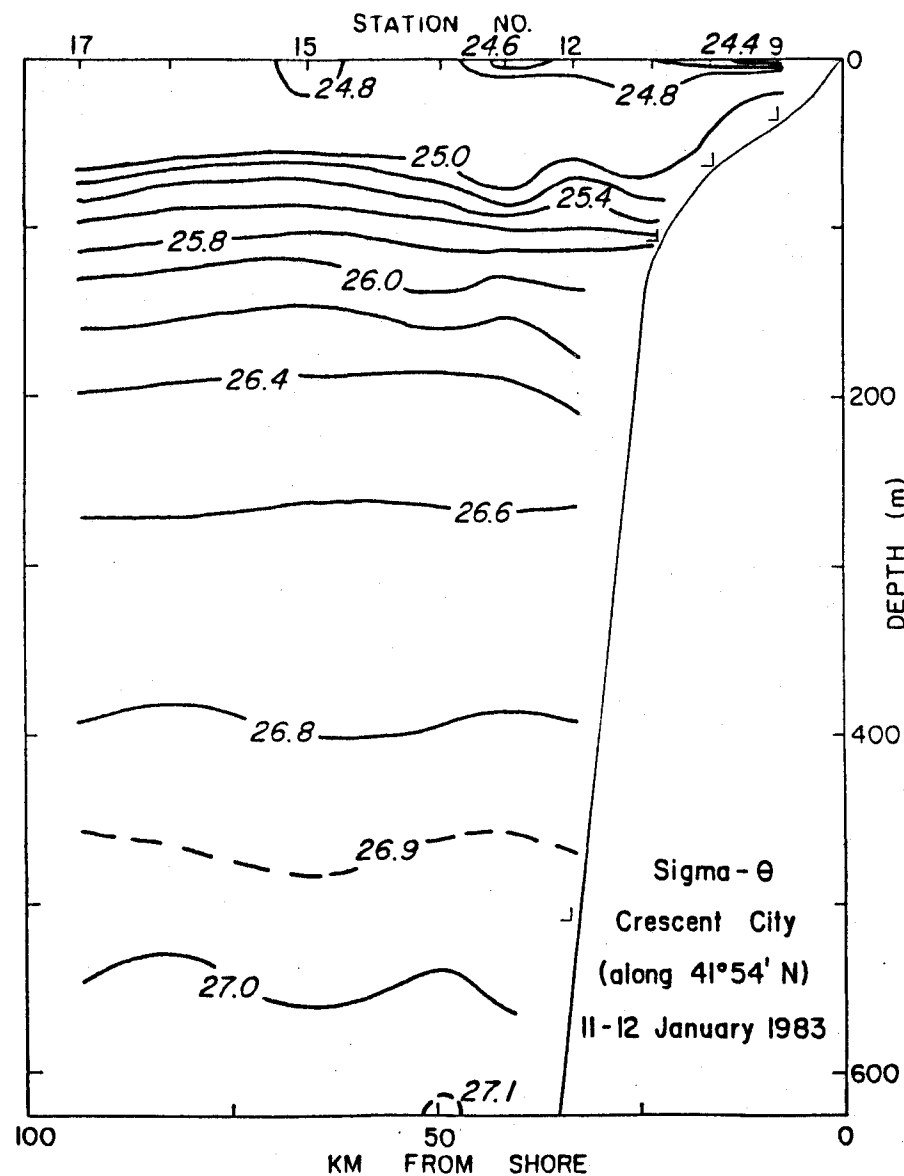
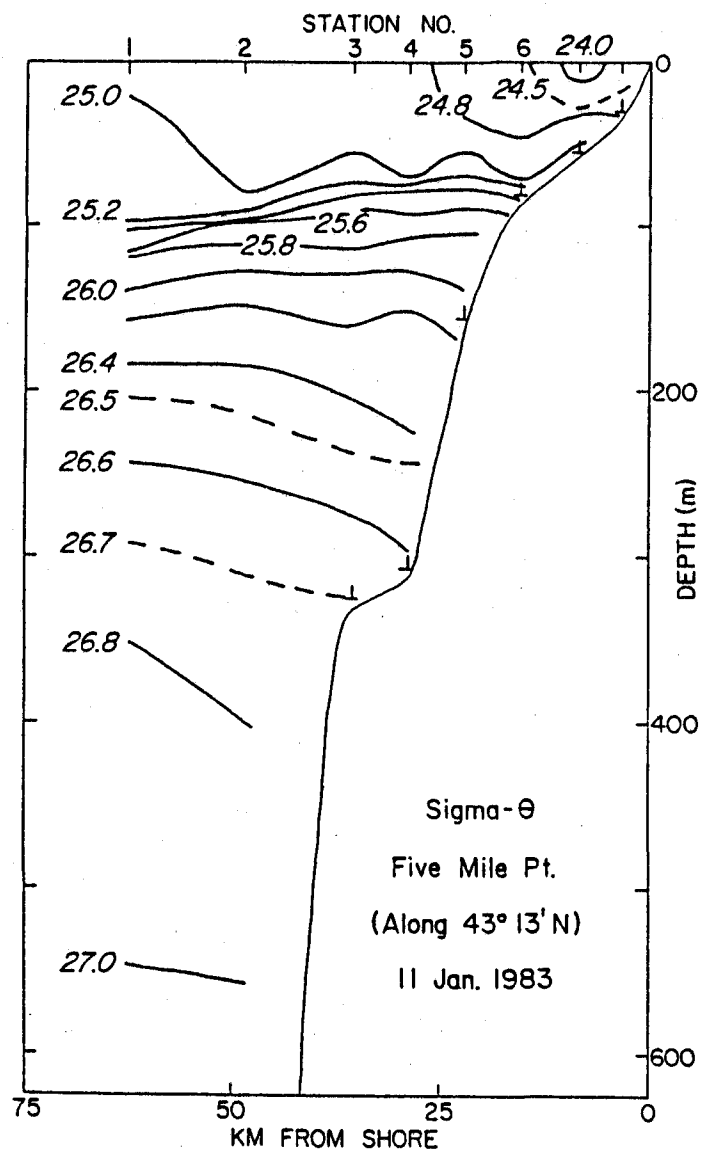


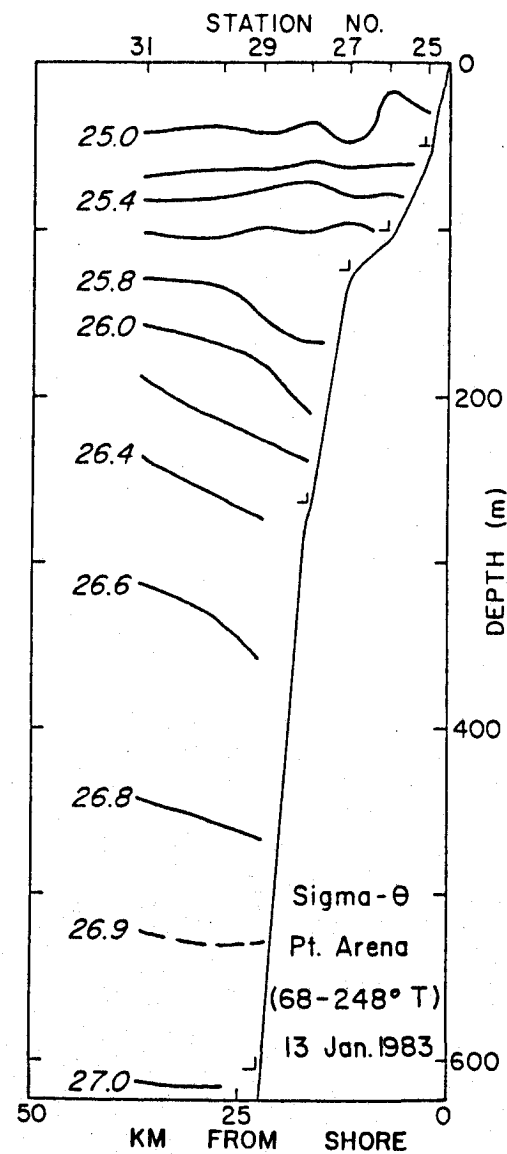
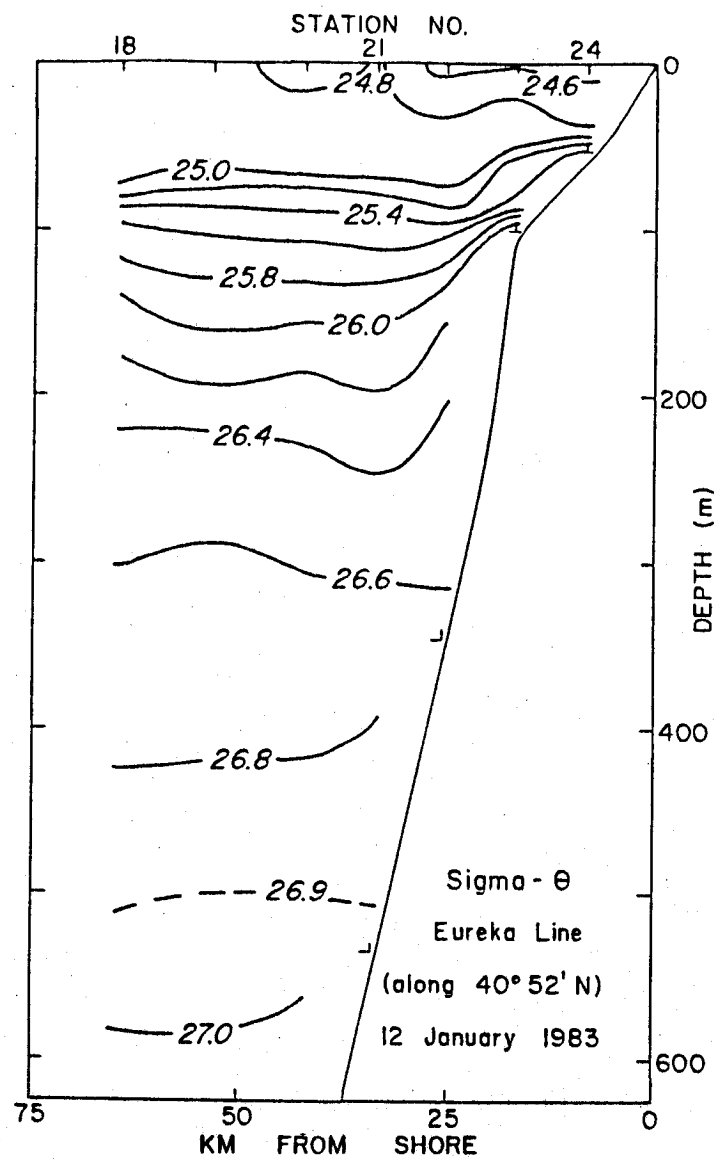


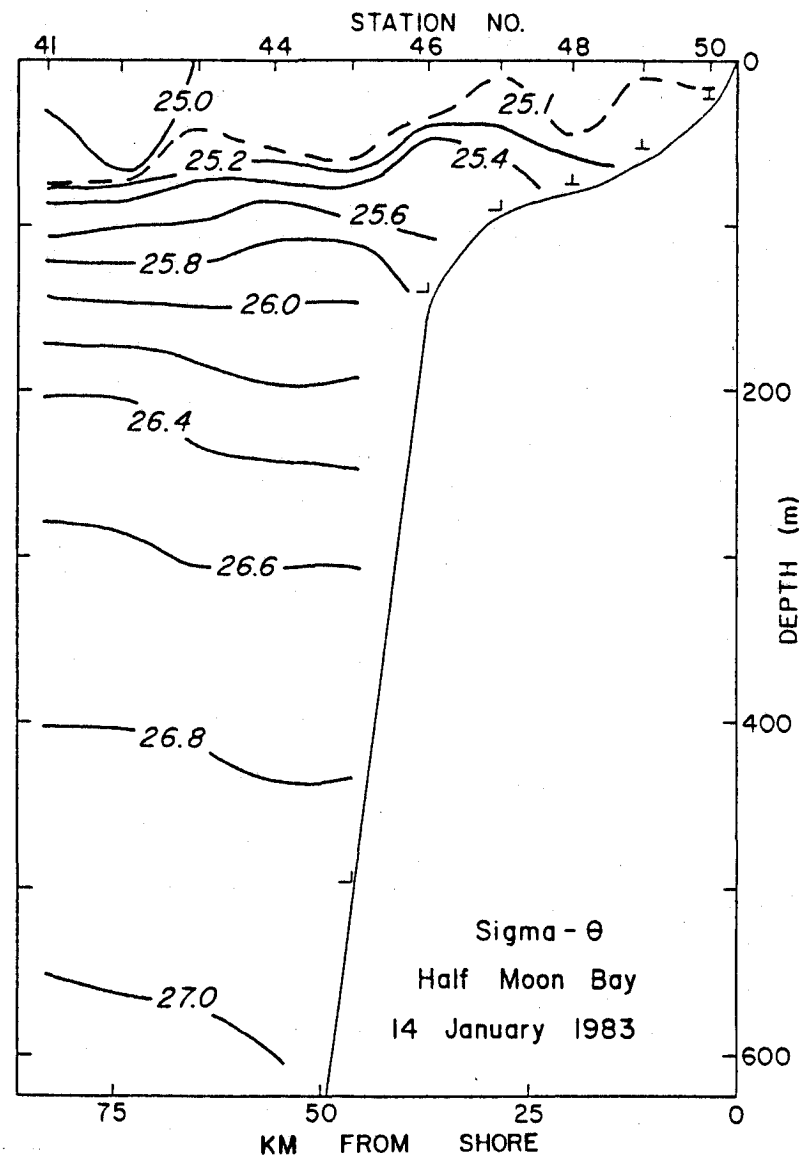
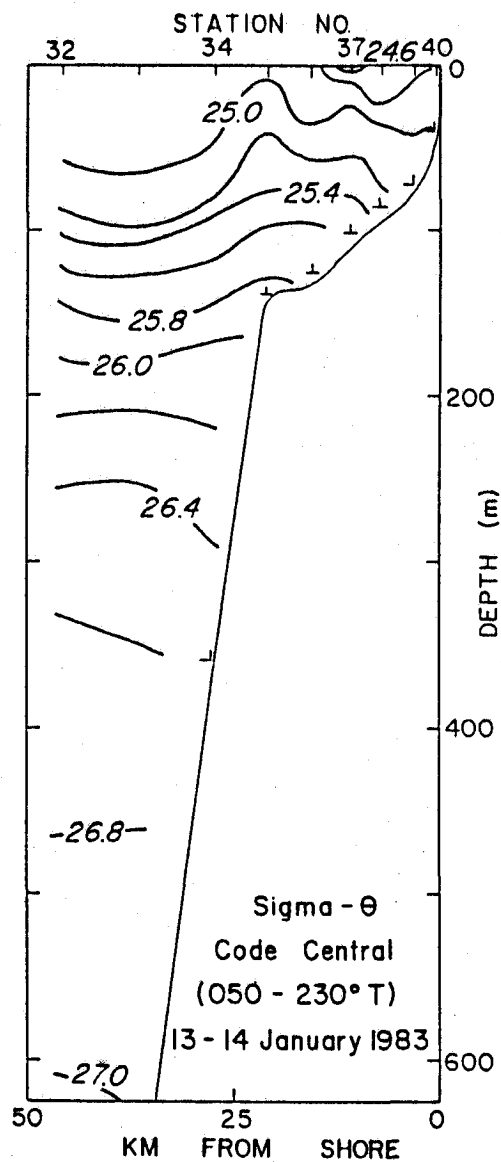


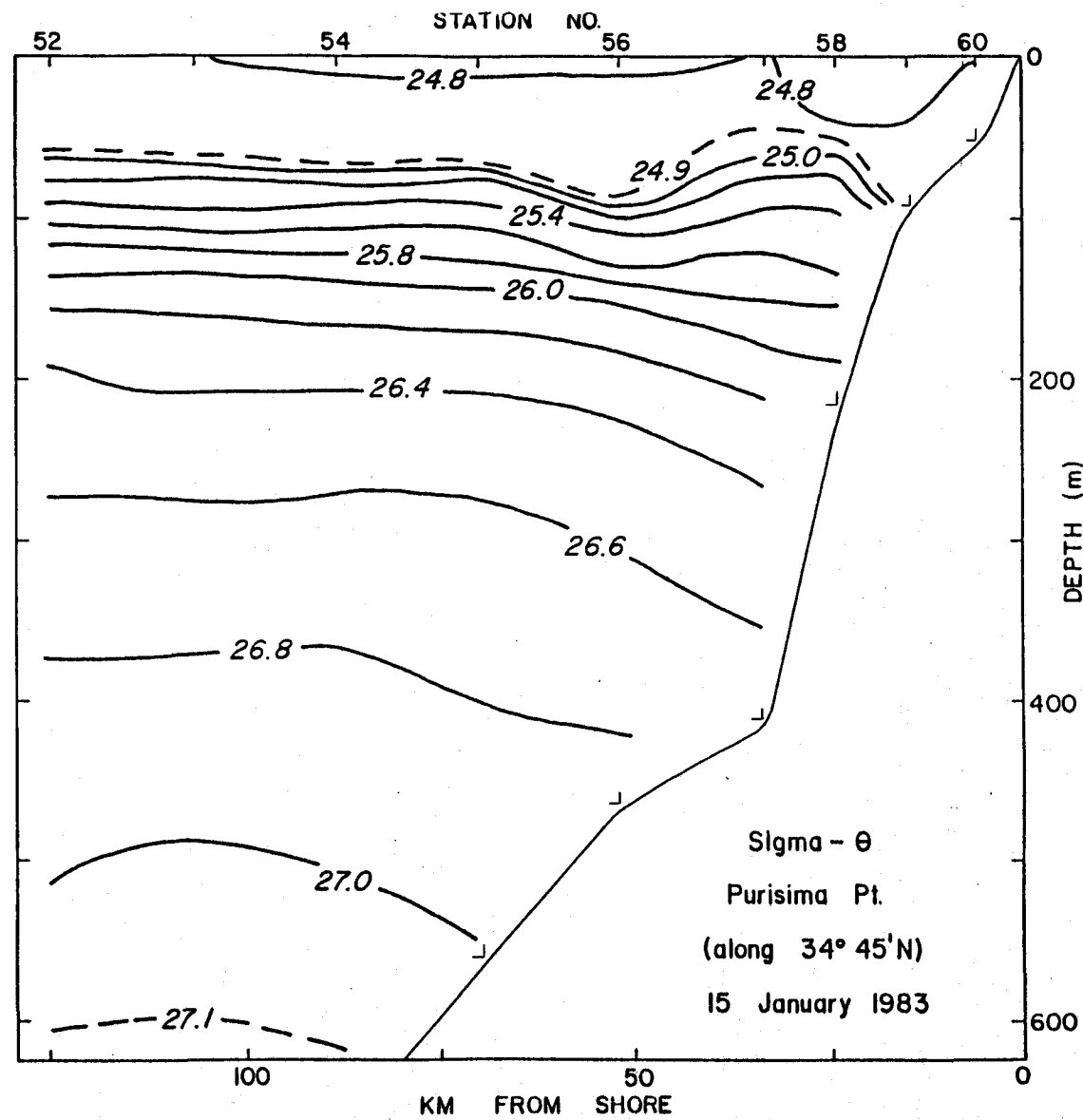


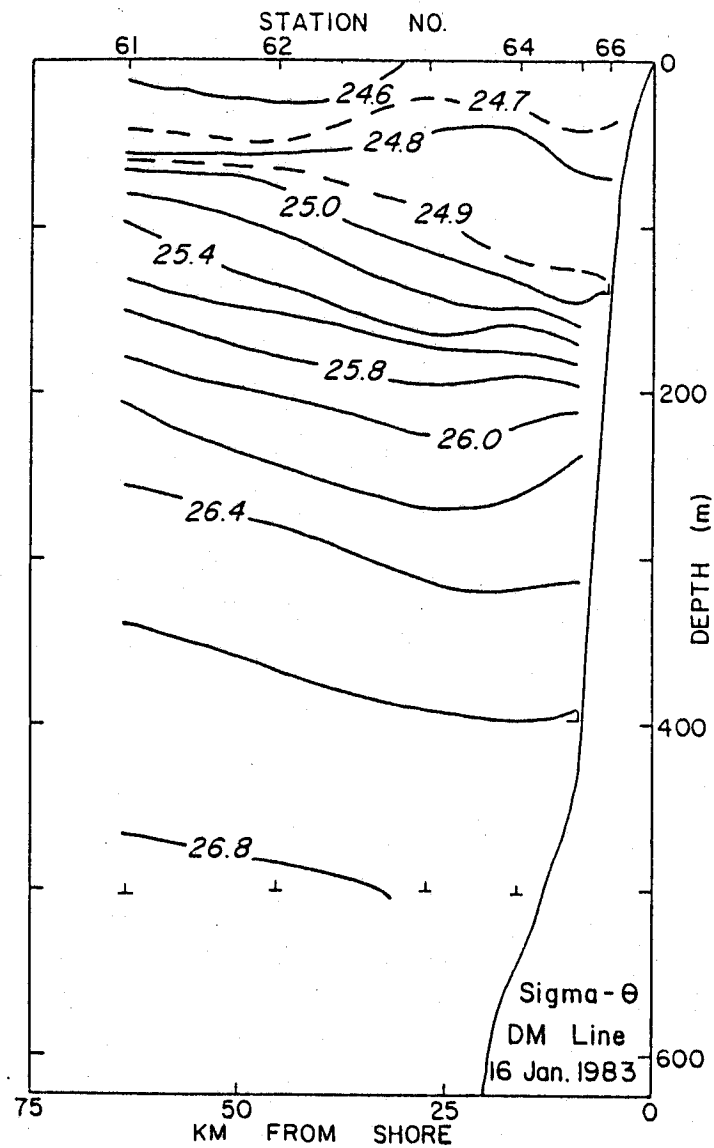






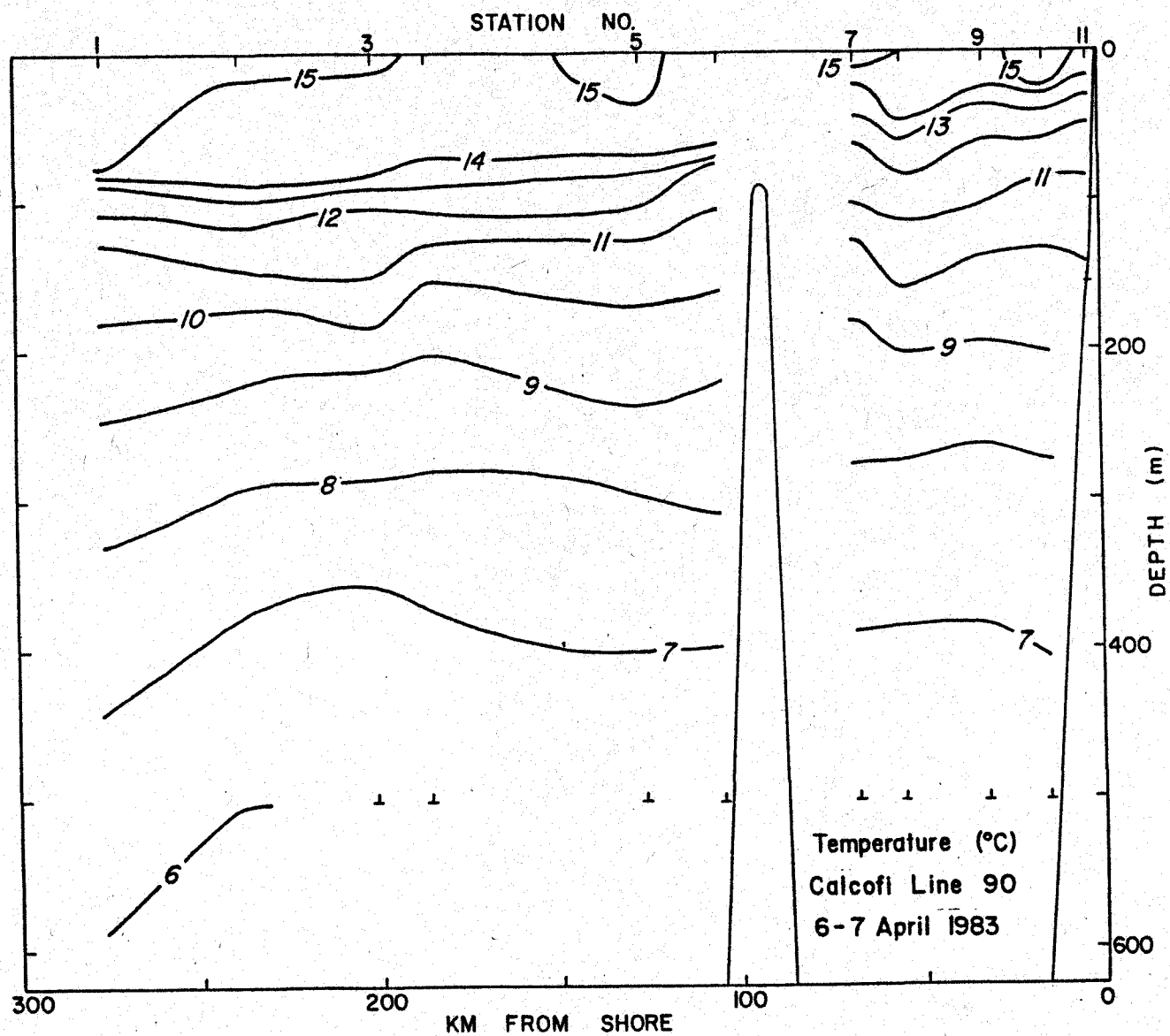


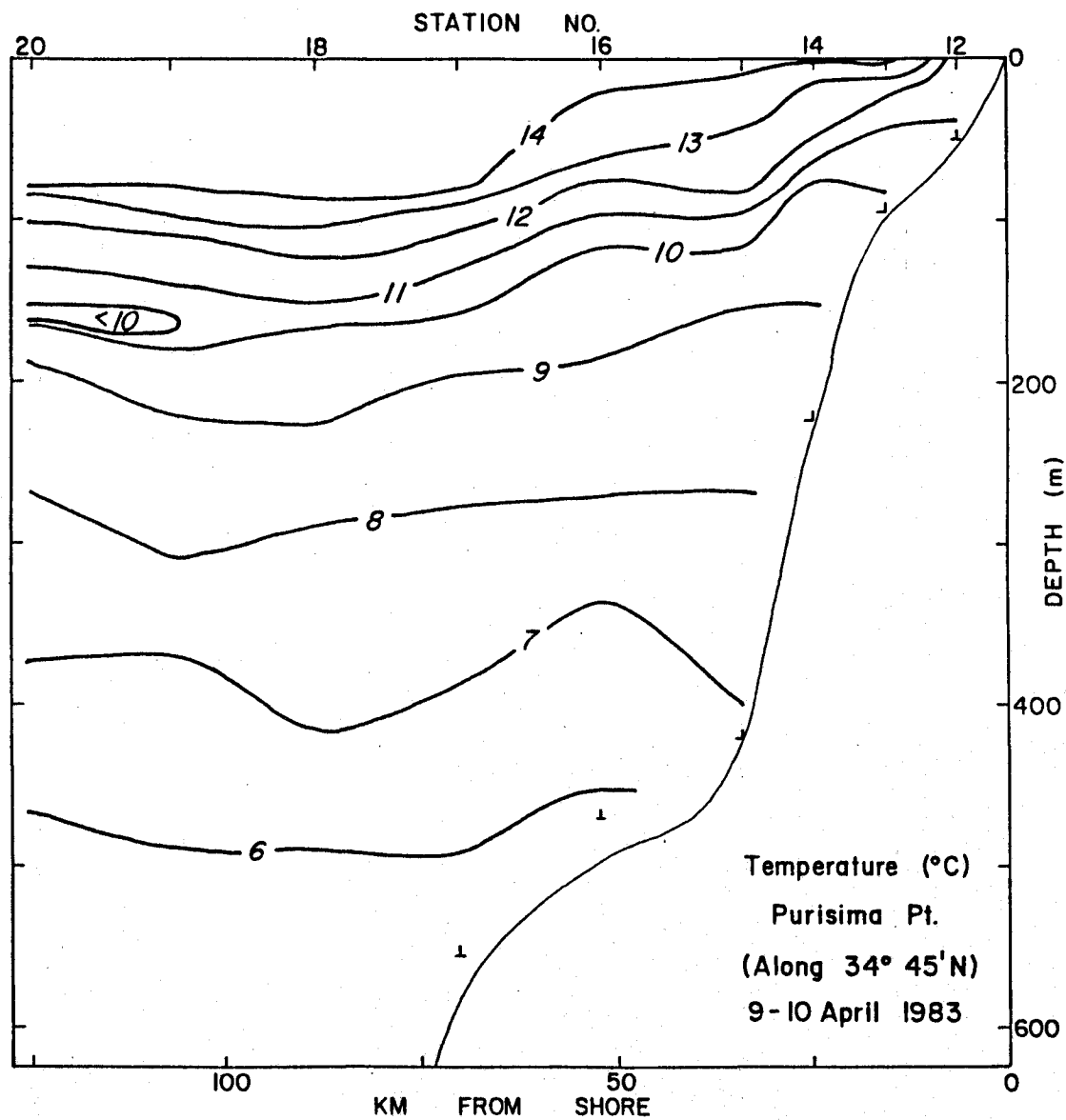


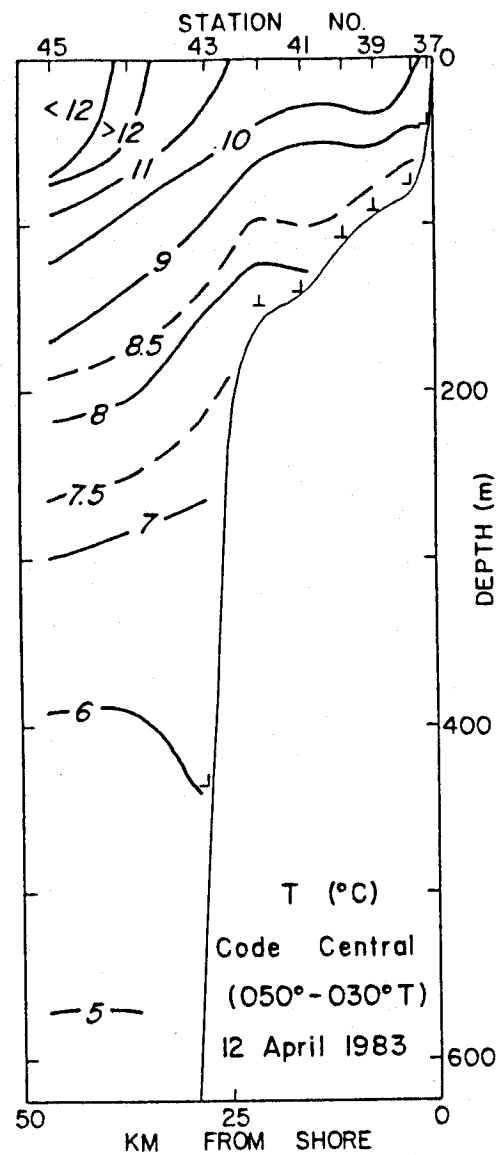
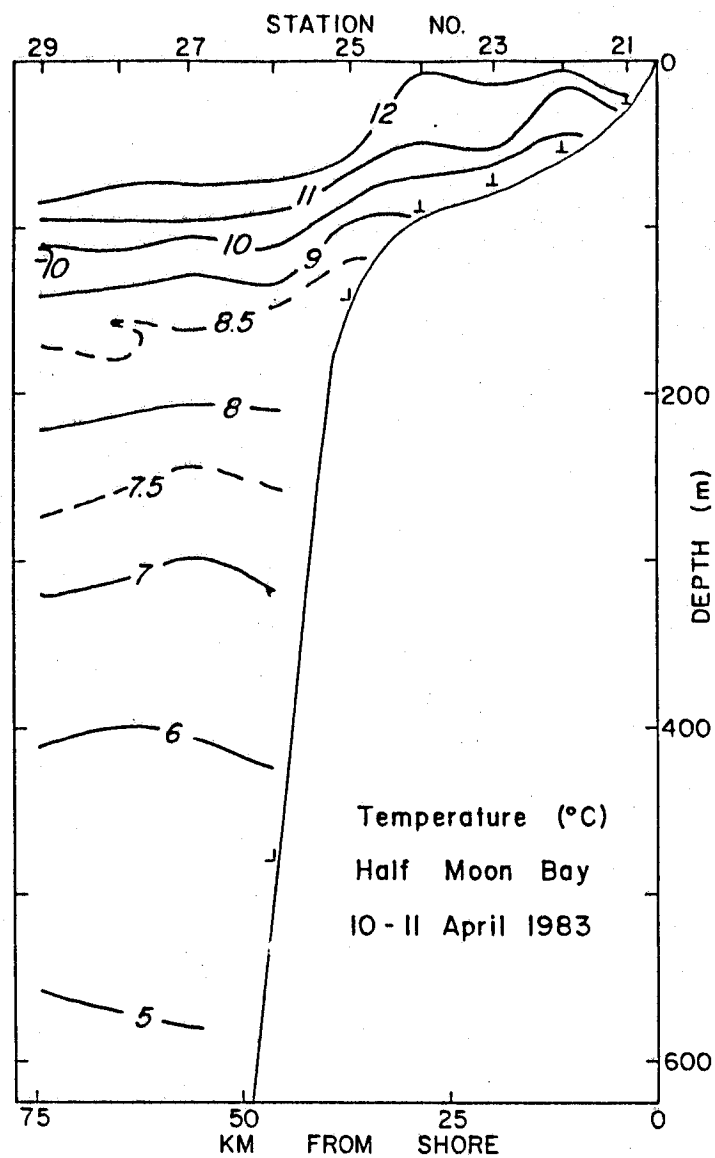


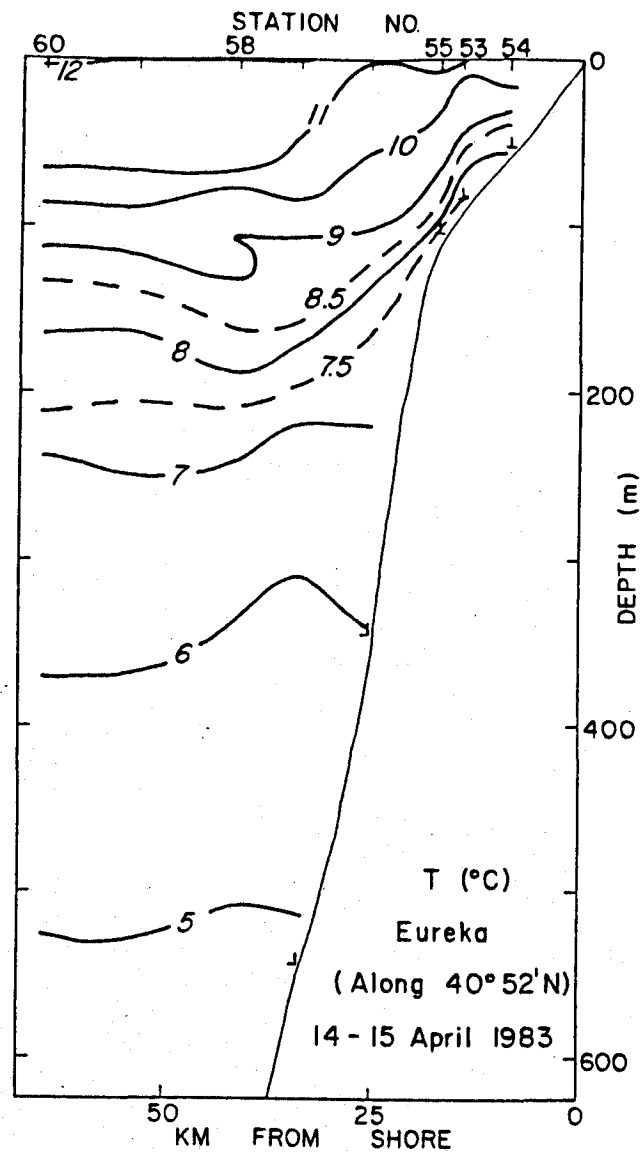
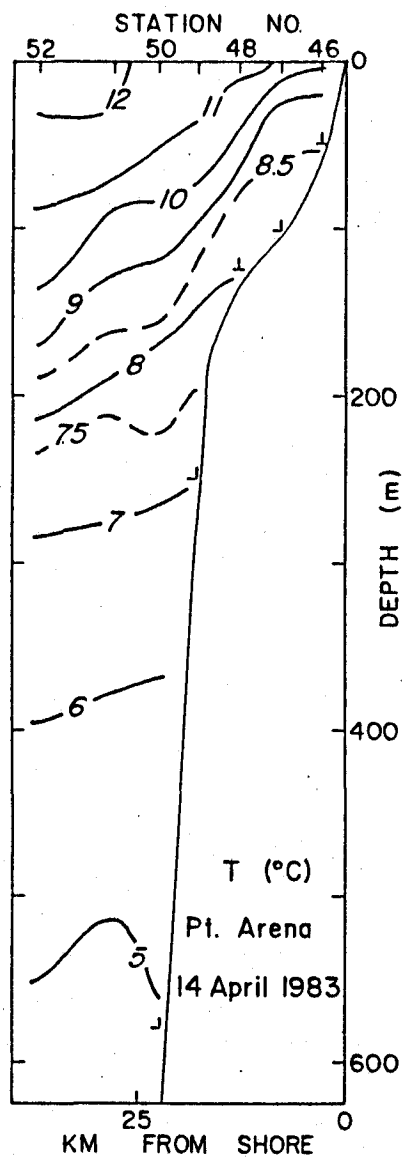
VERTICAL SECTIONS

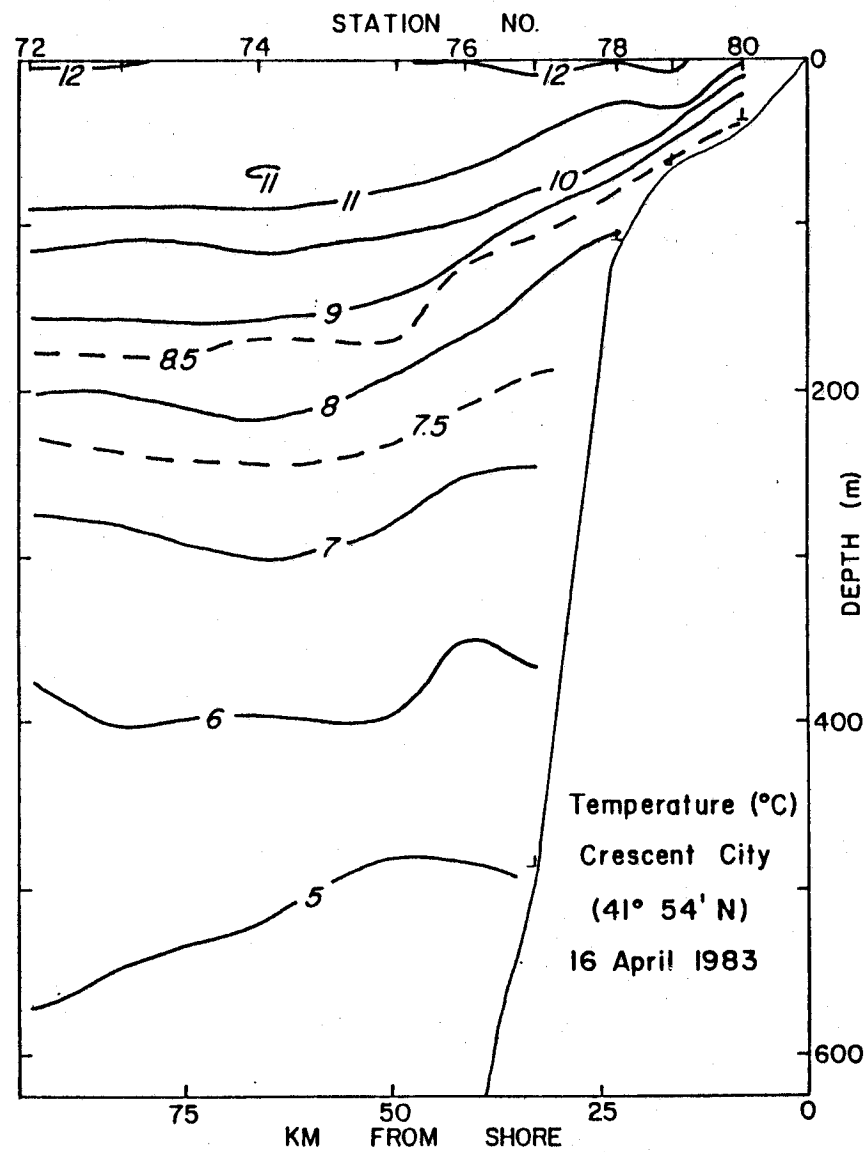
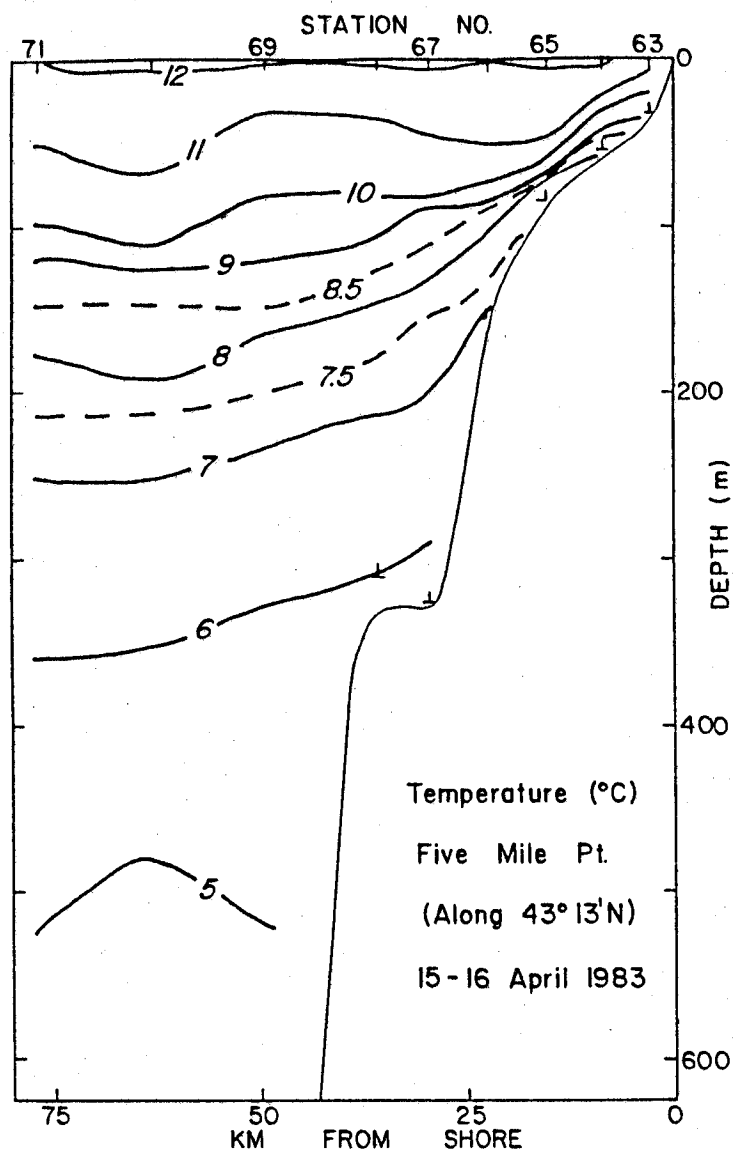
Legs 4-6

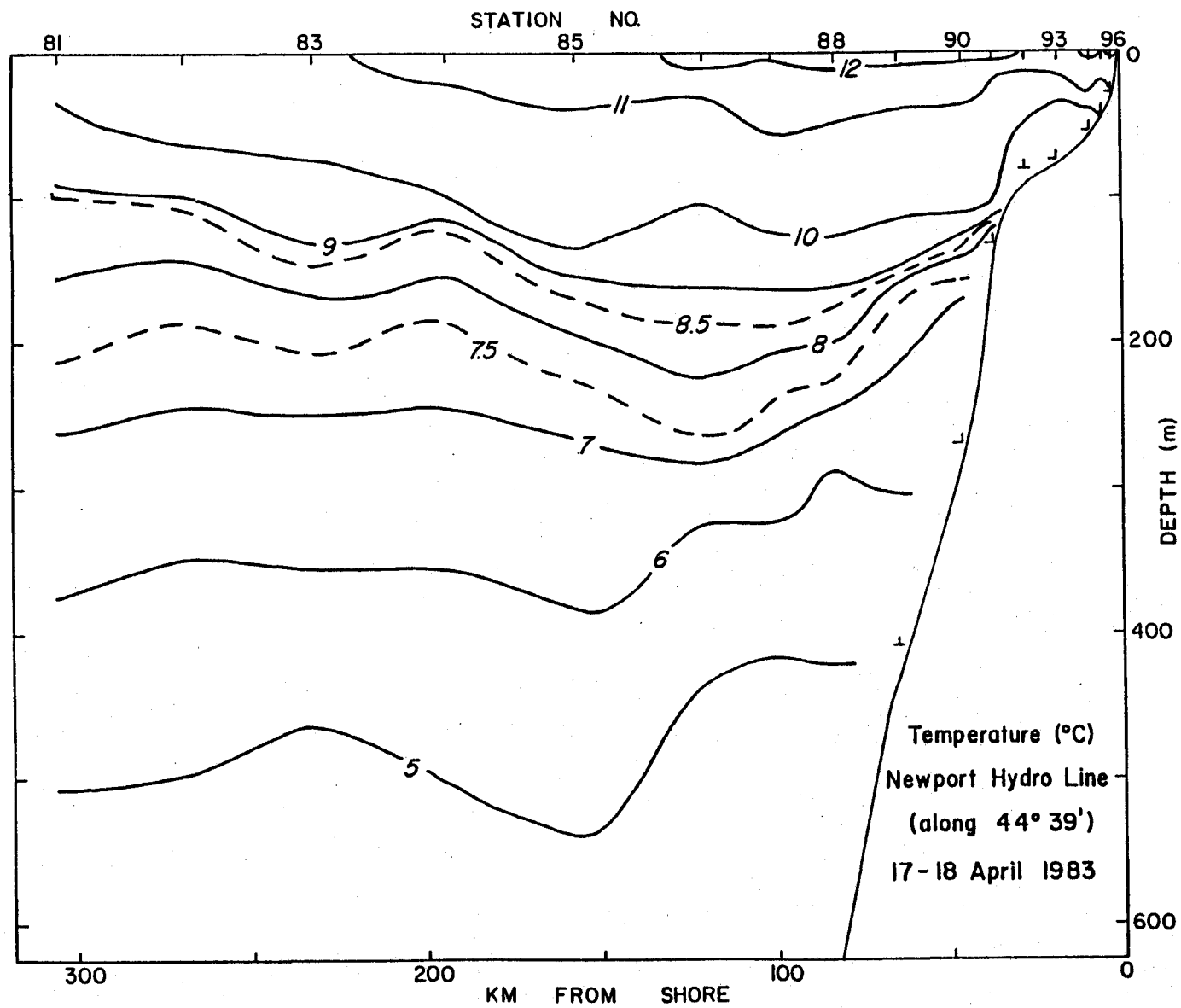


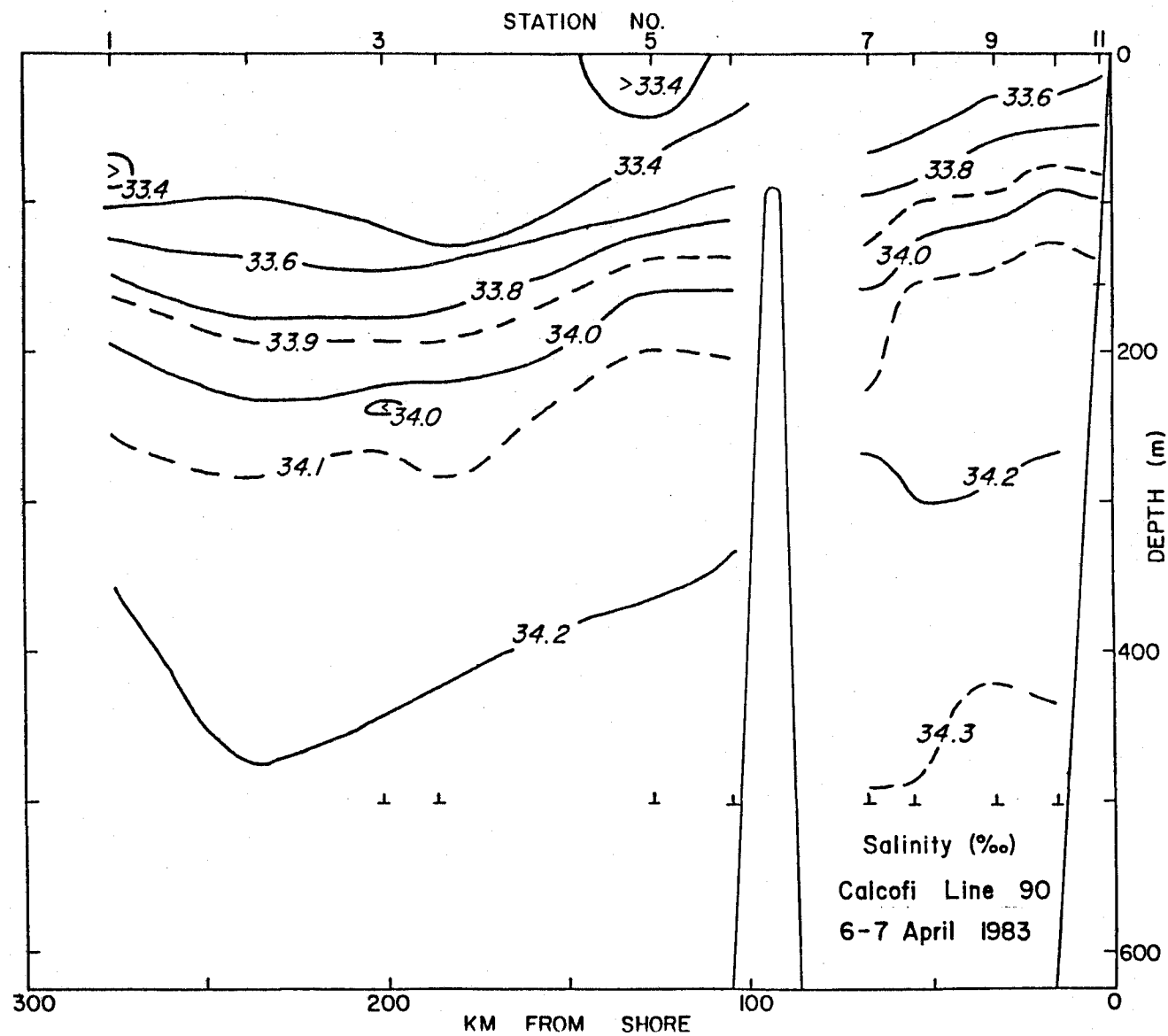


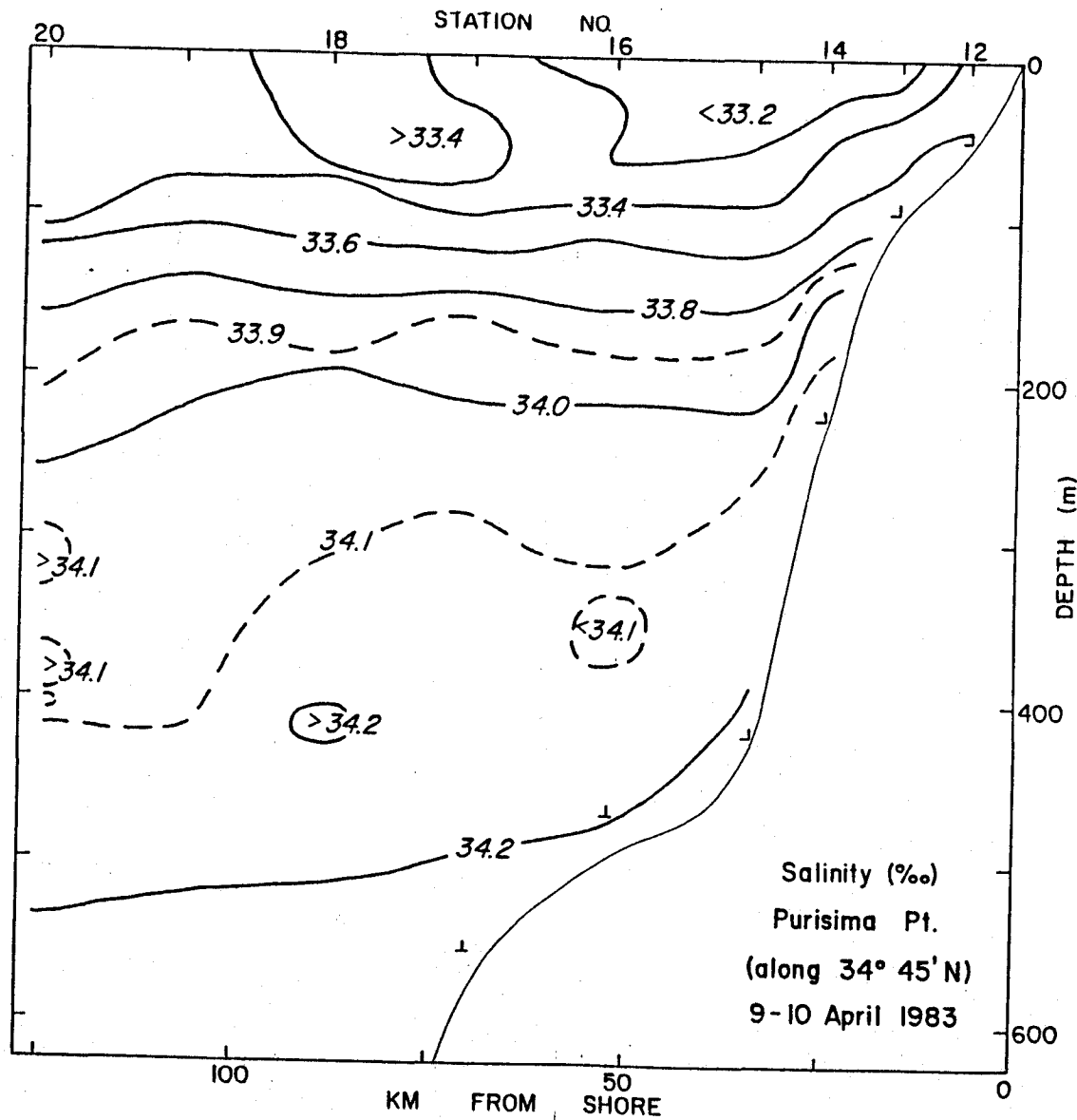


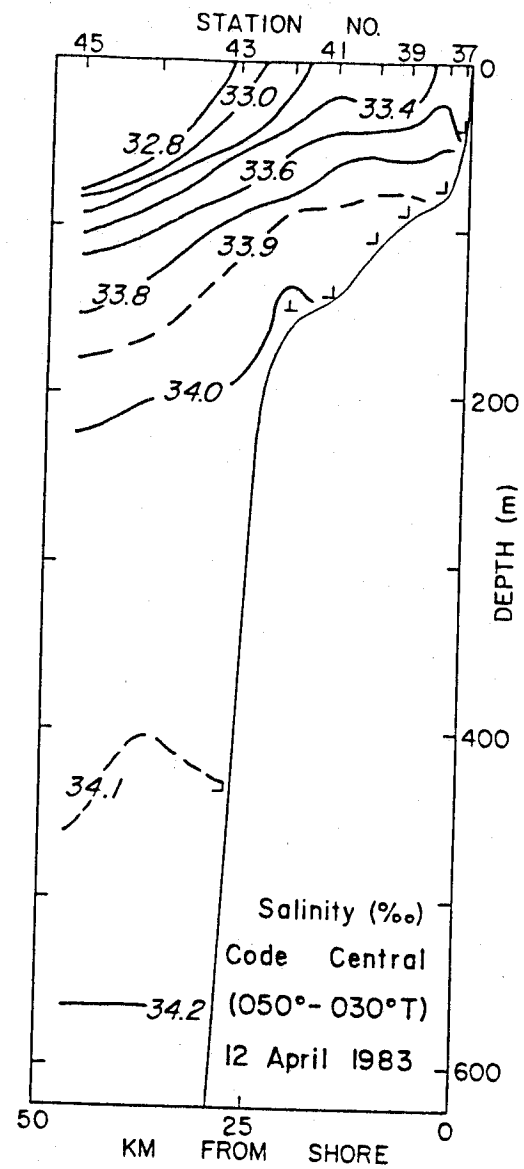
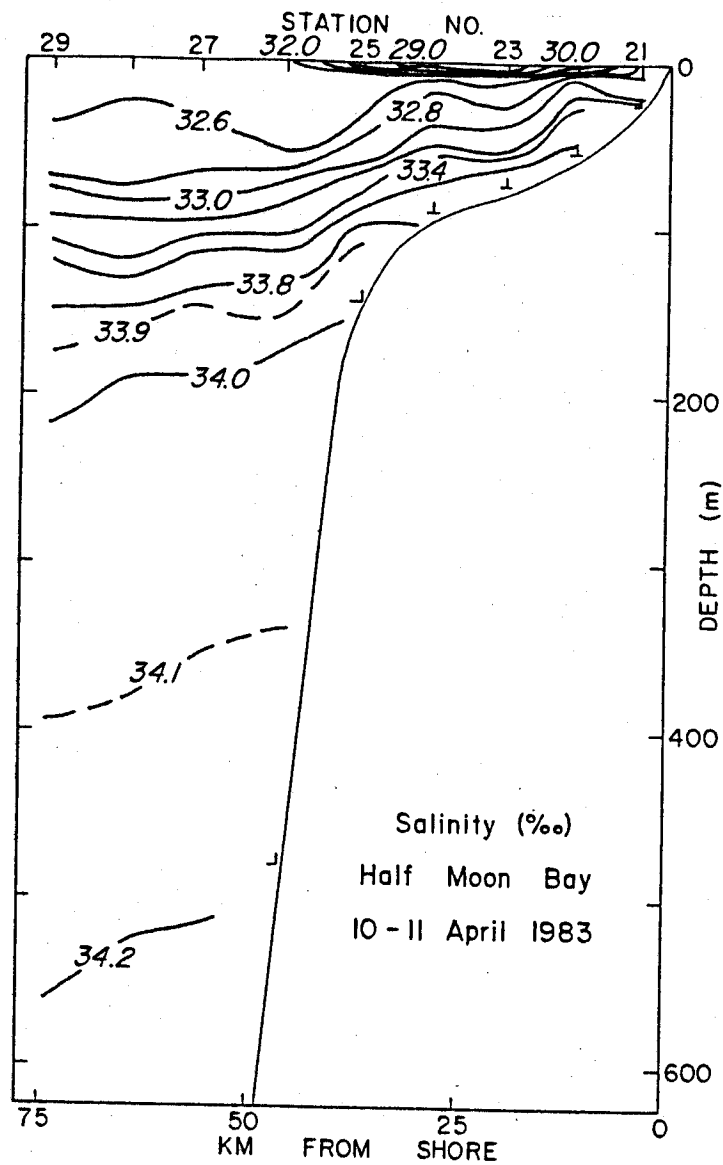


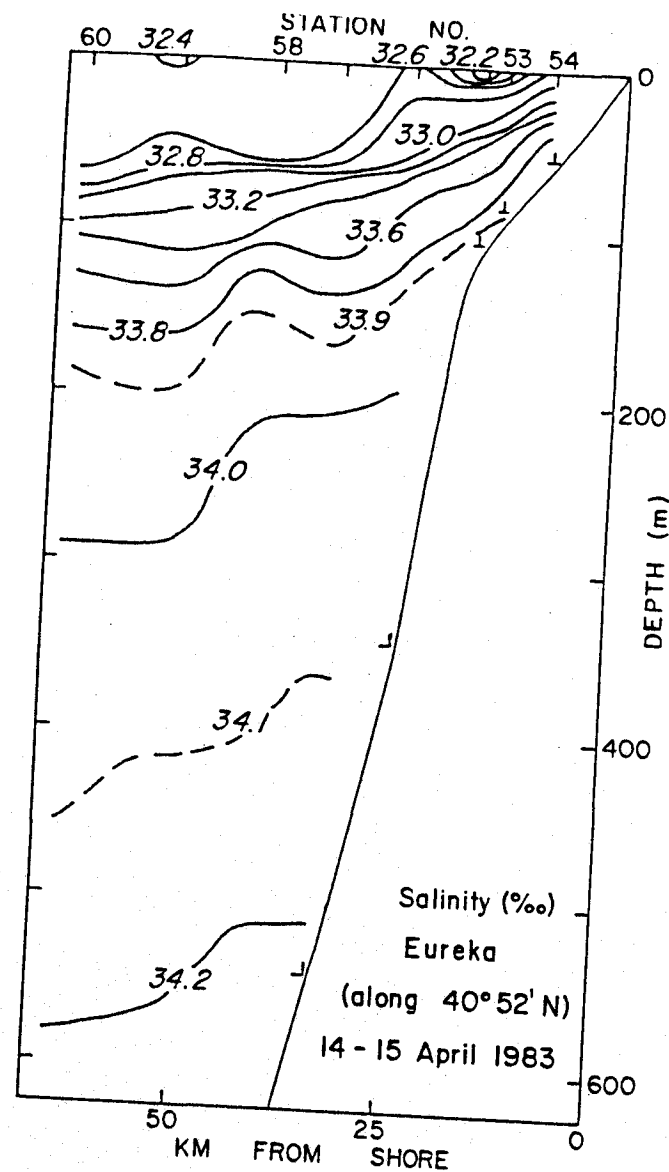
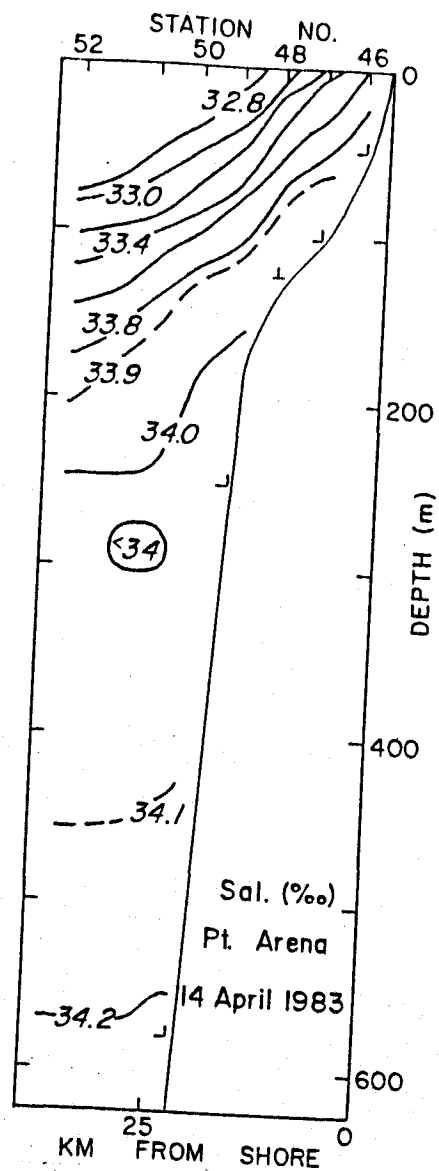


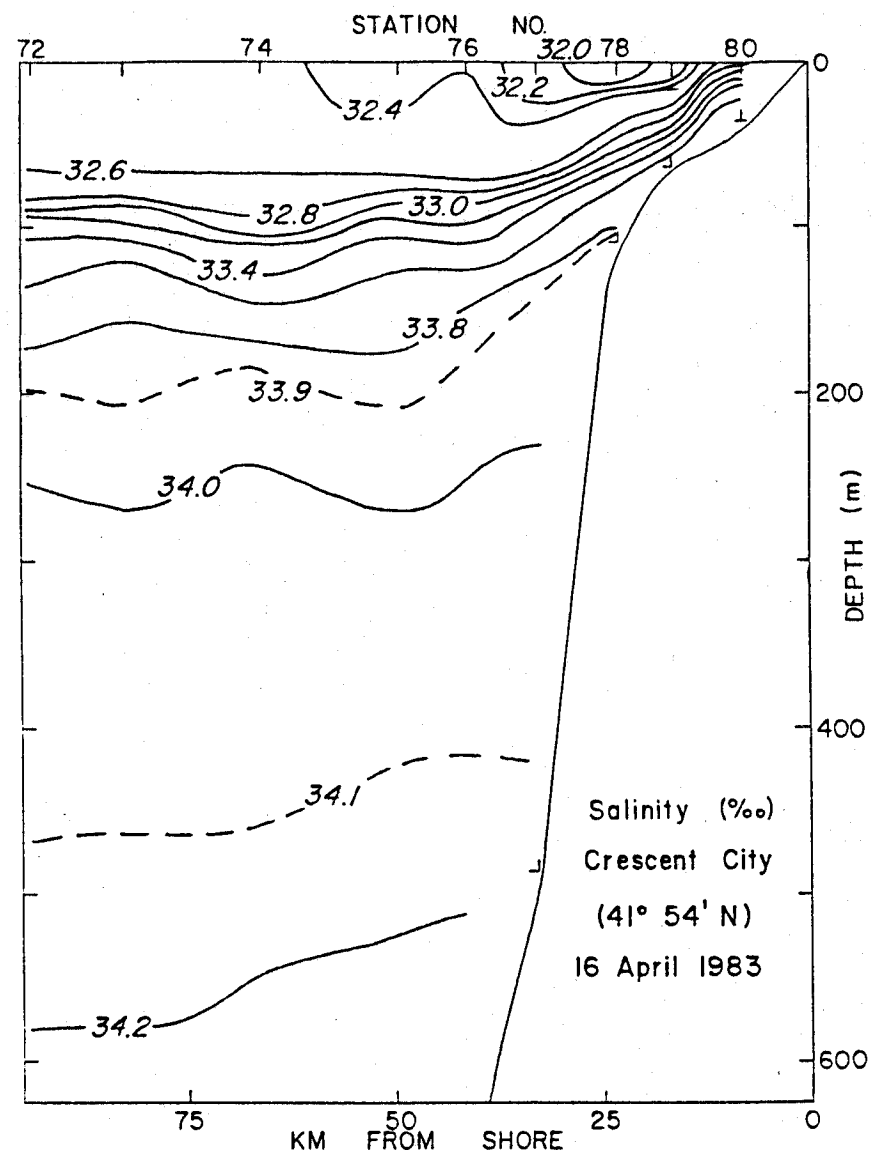
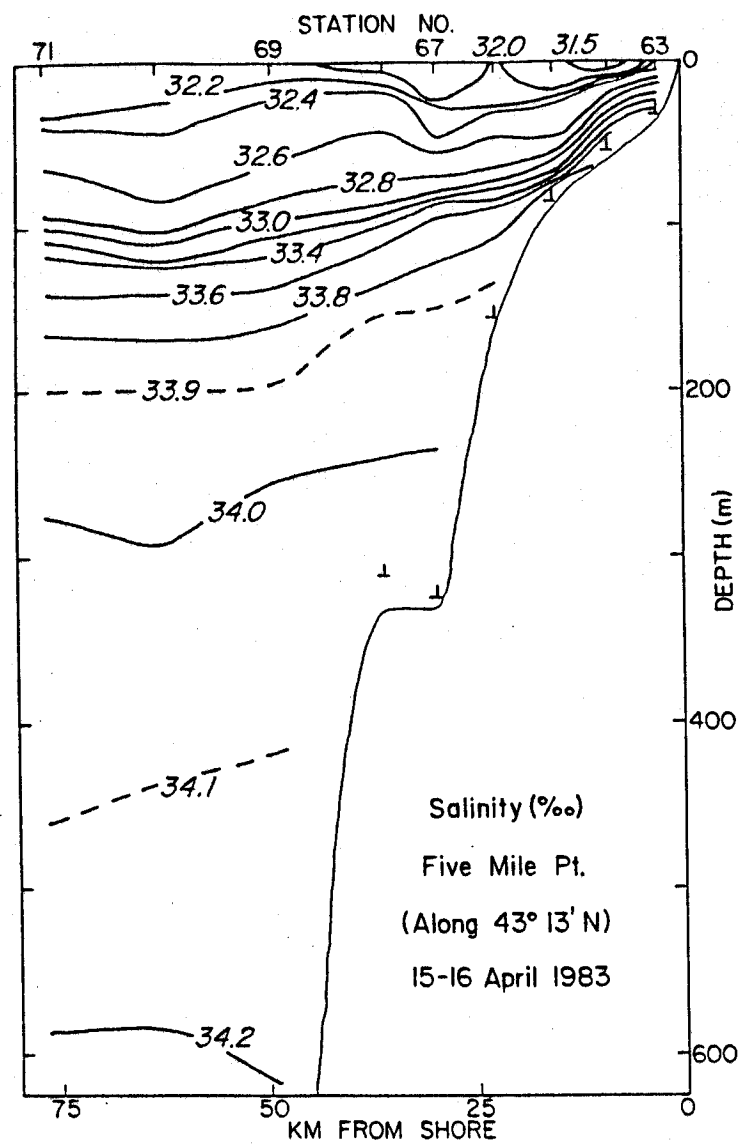


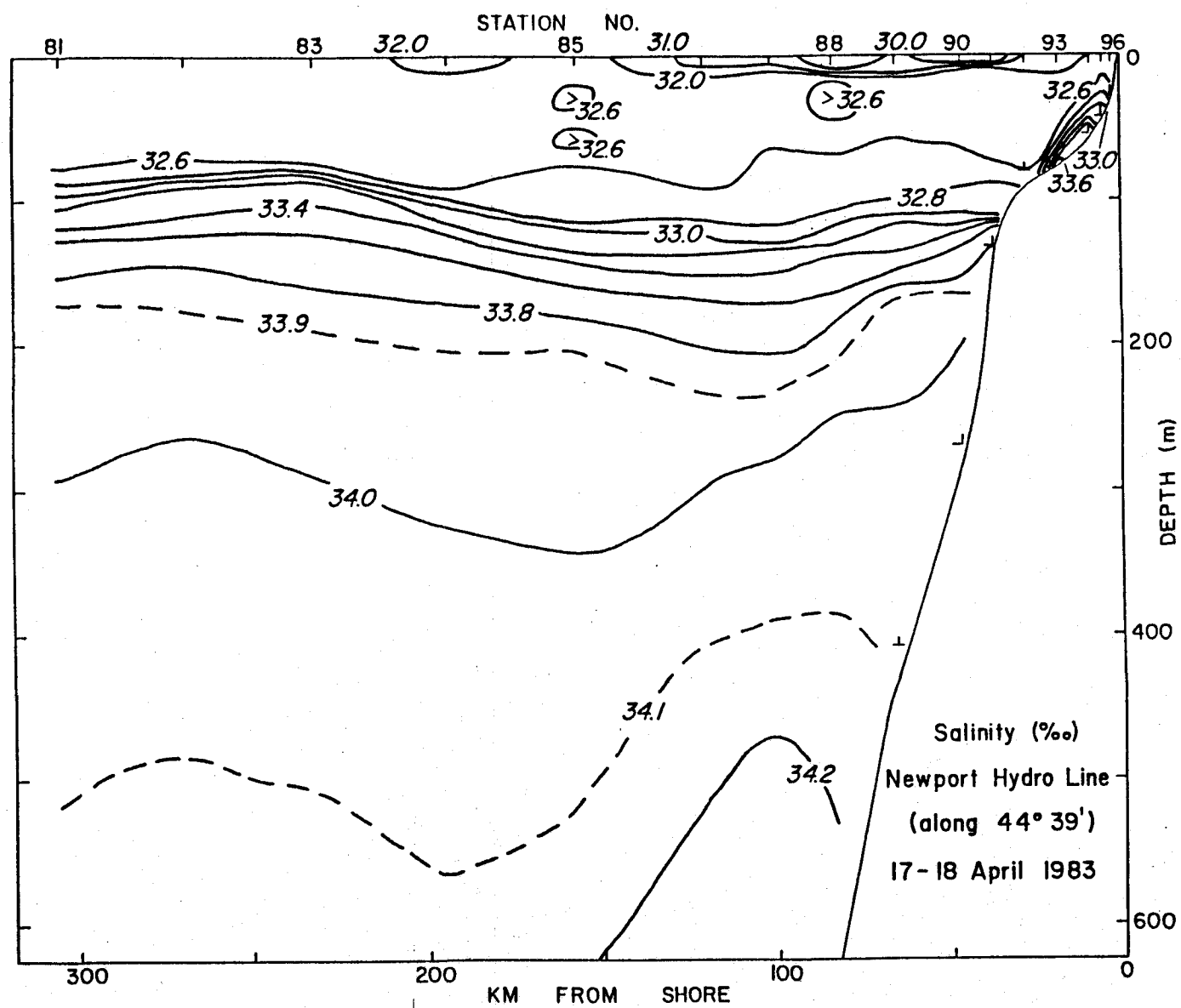


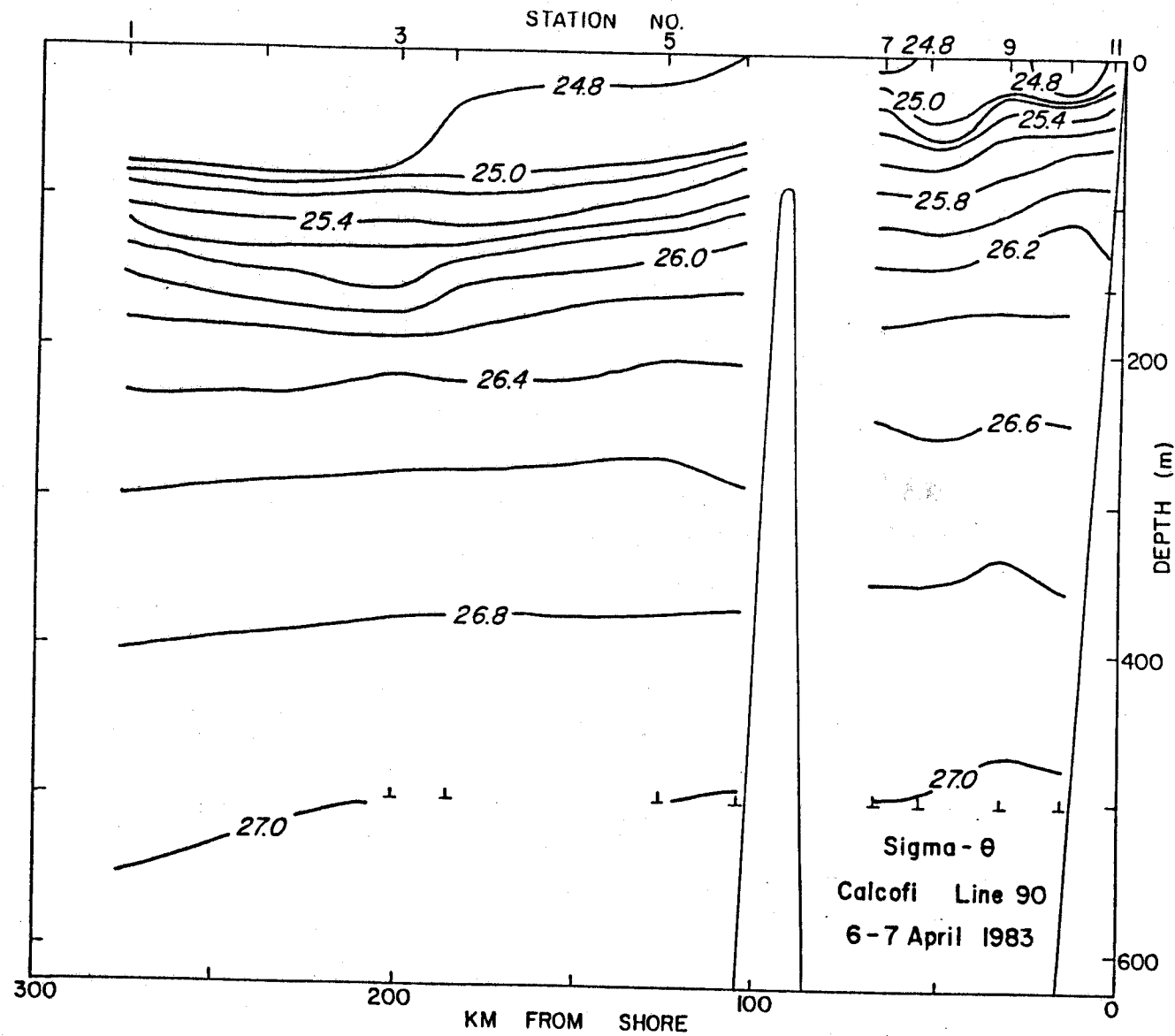


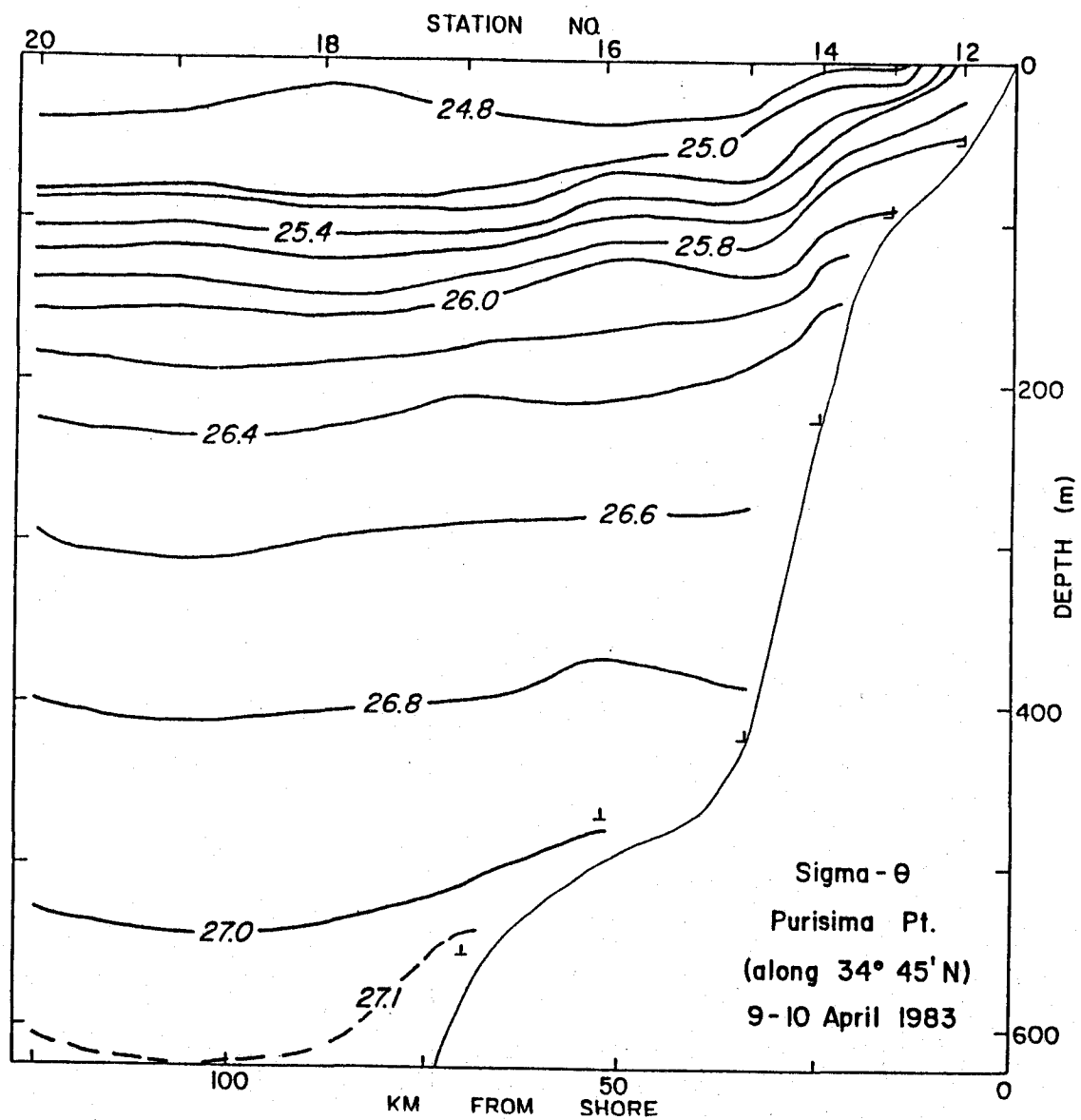


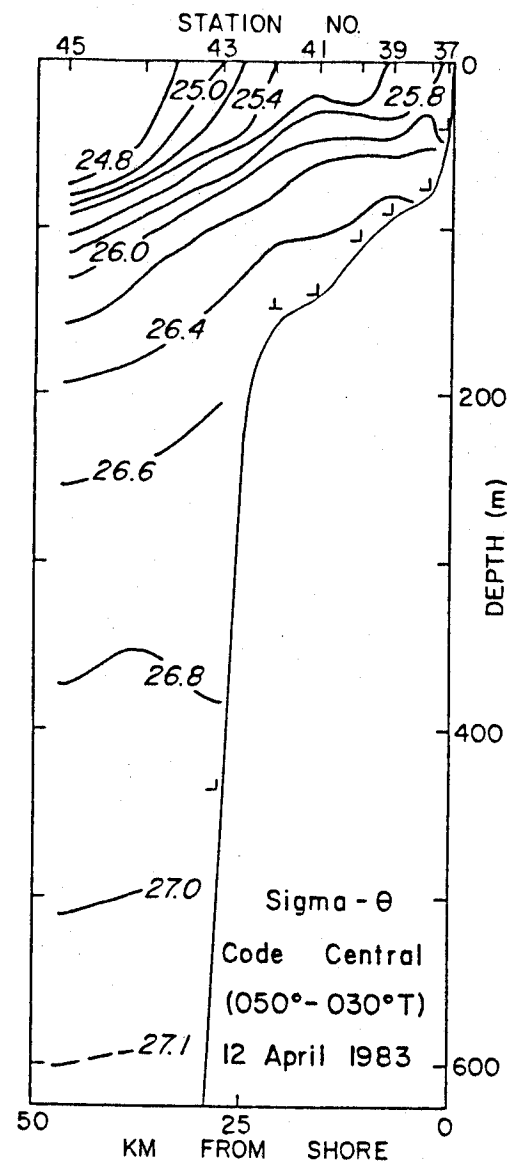
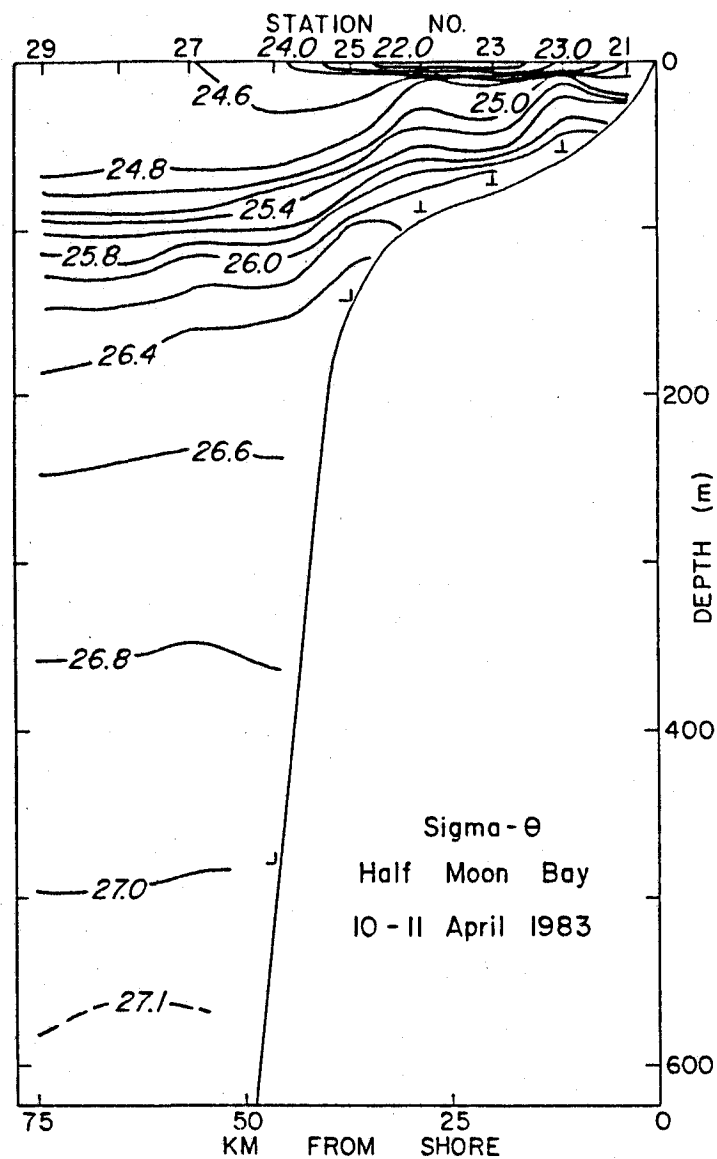


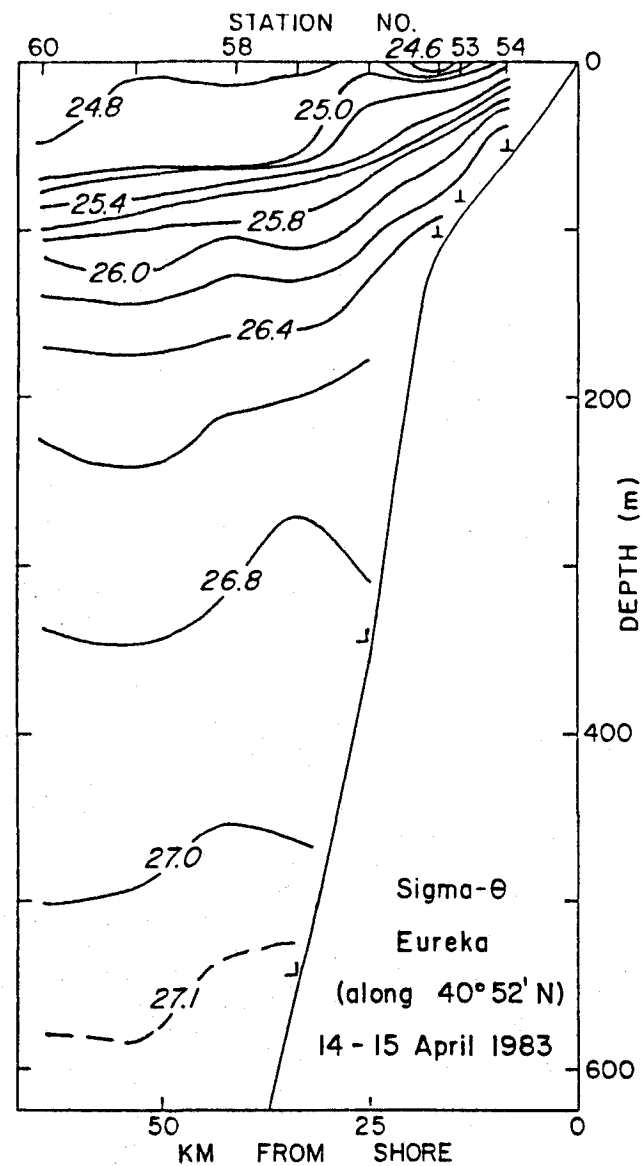
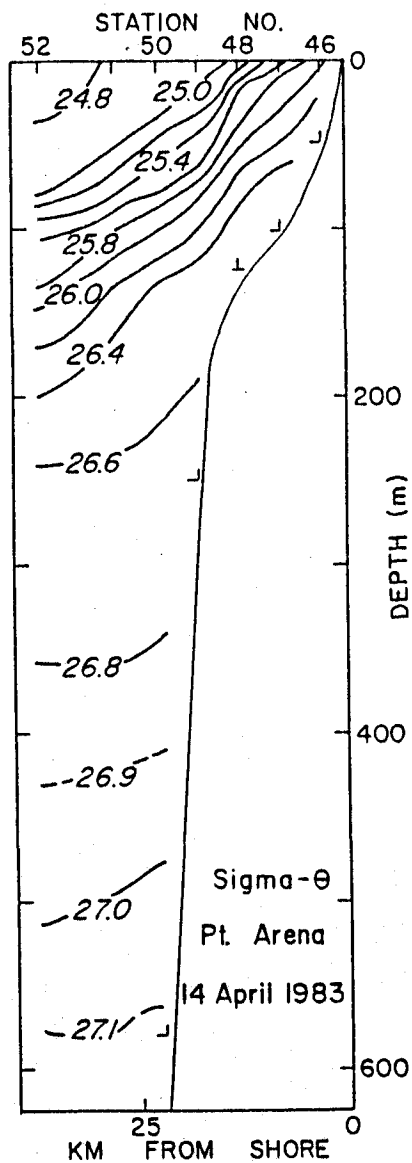


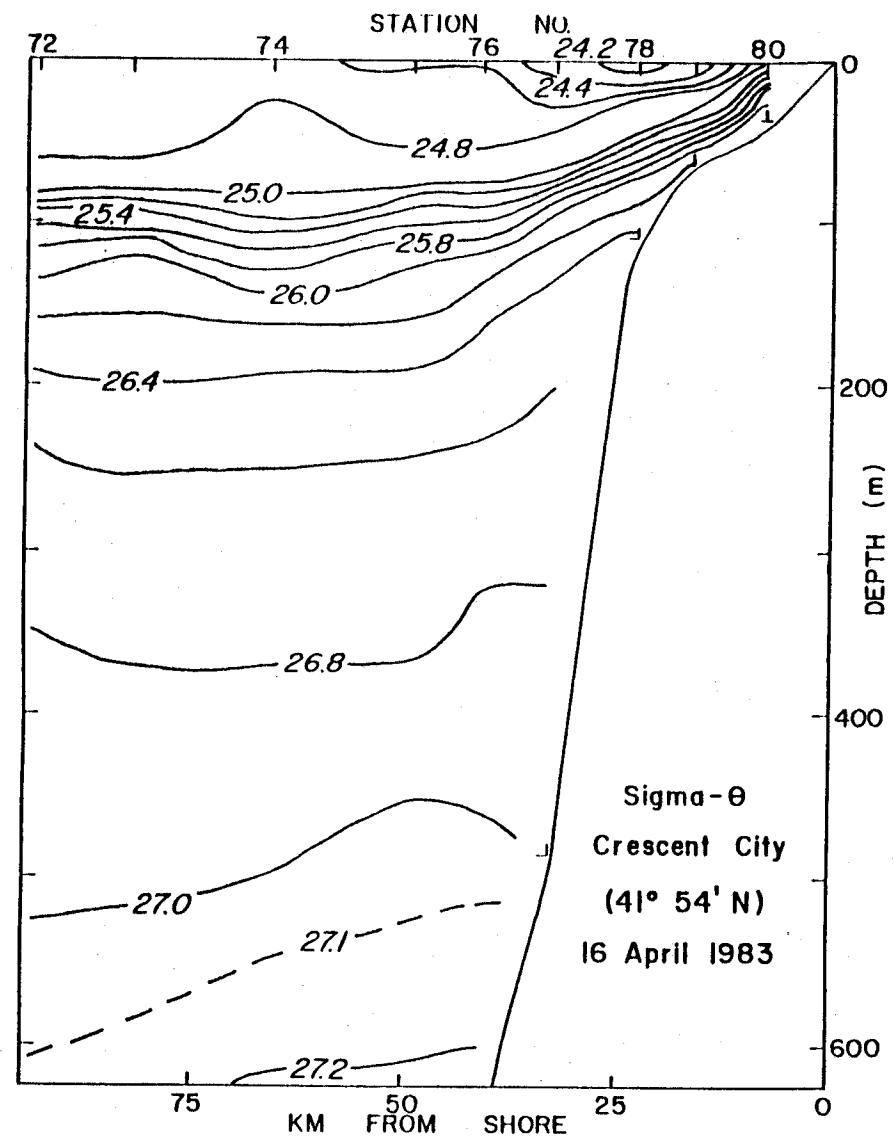
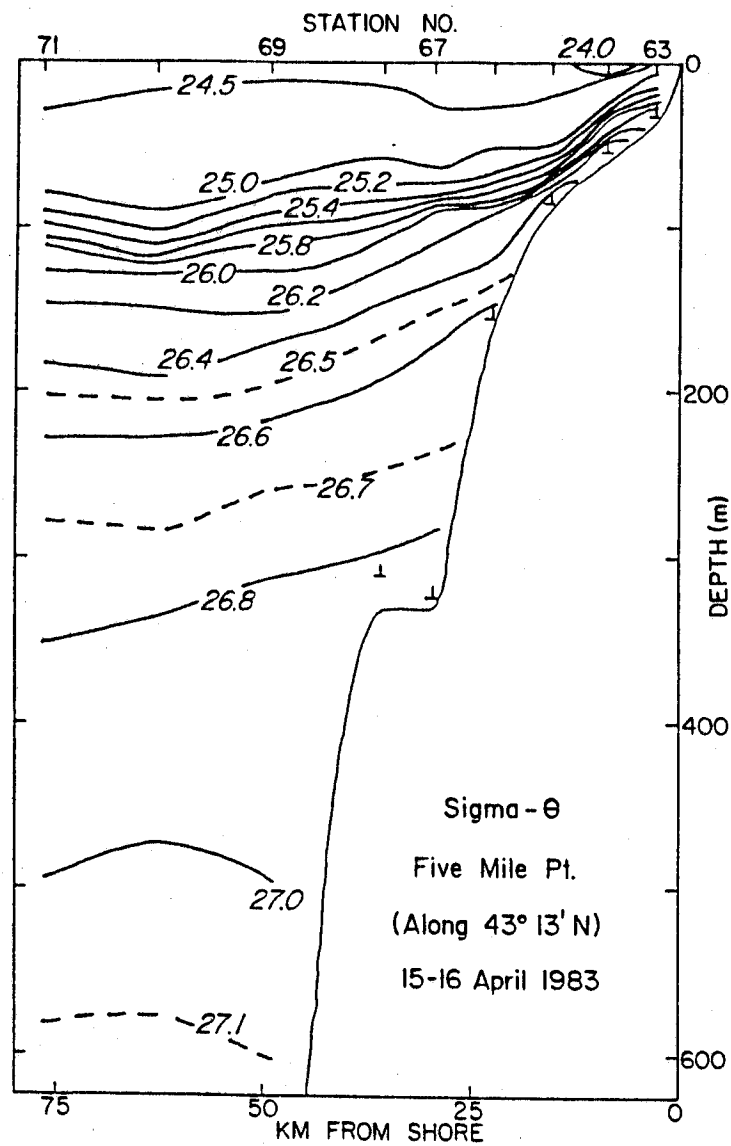


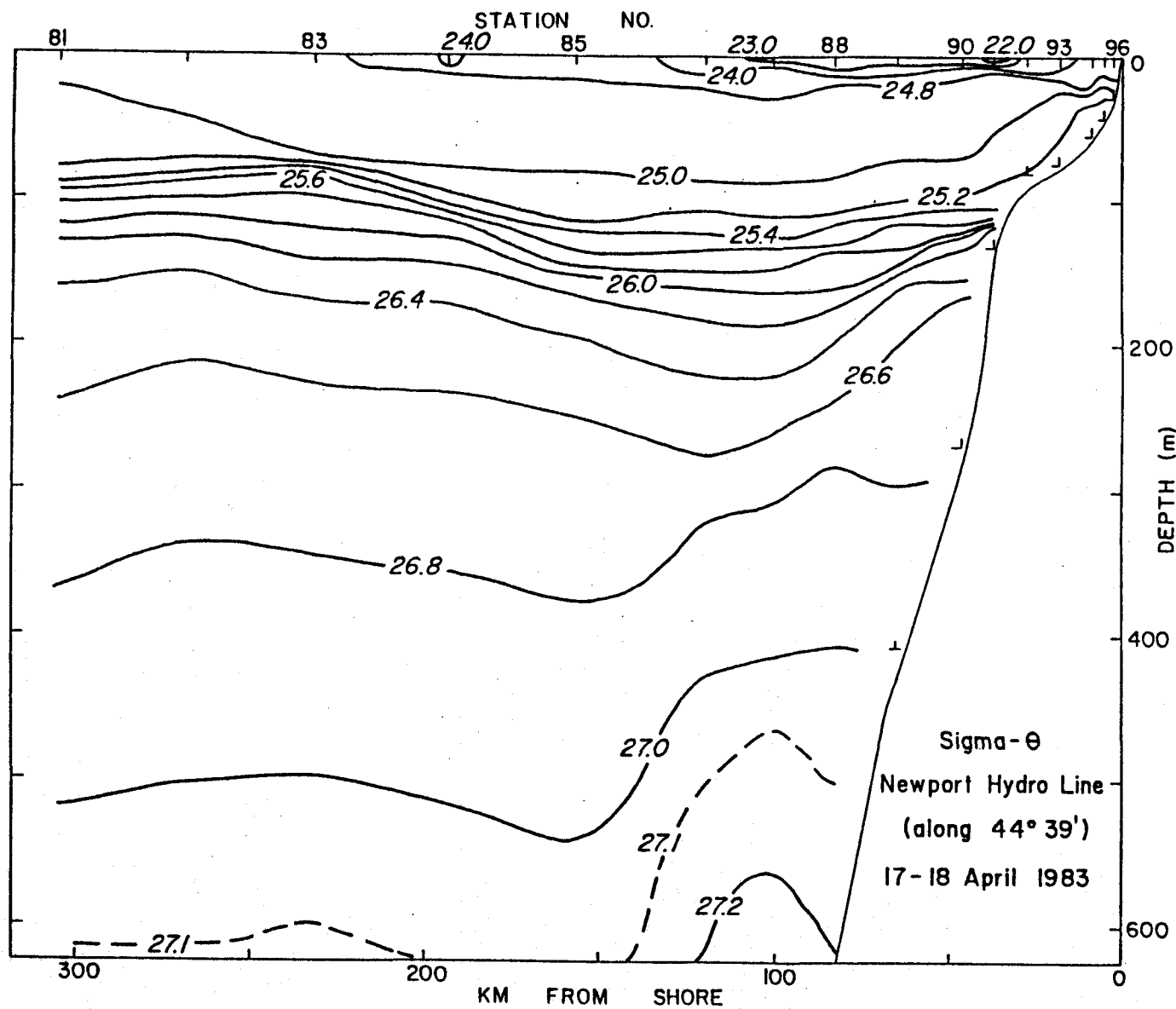




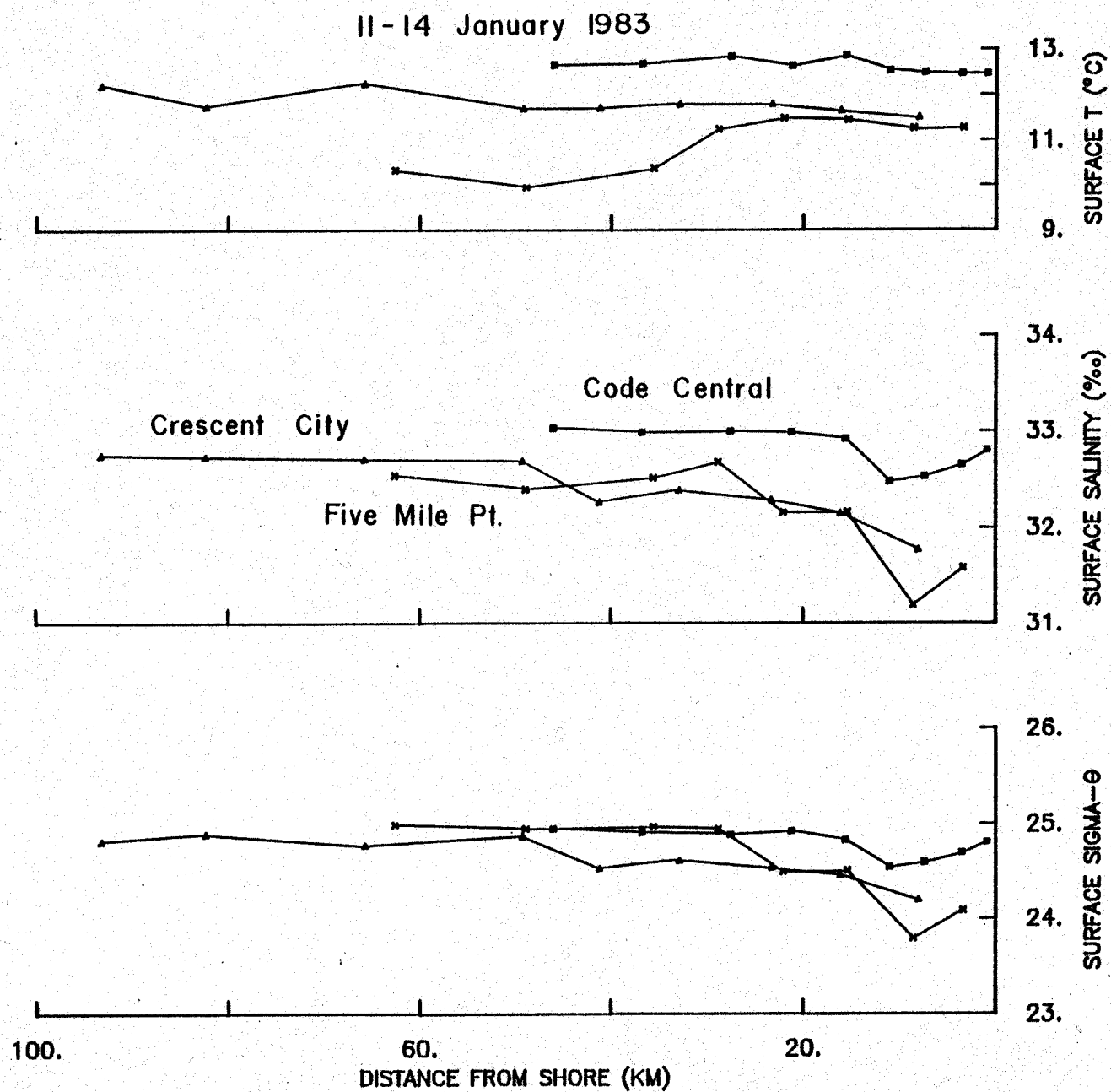




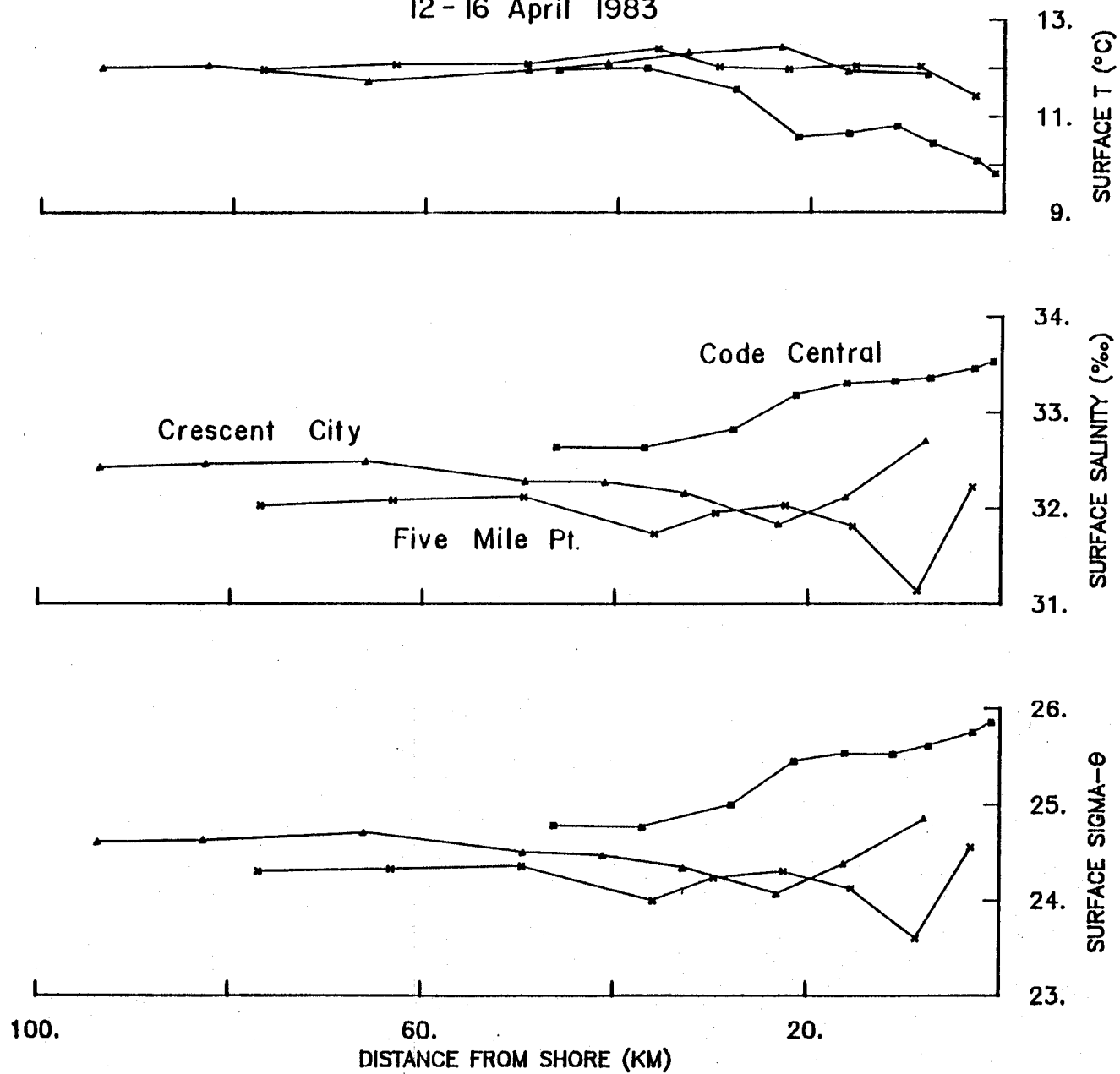




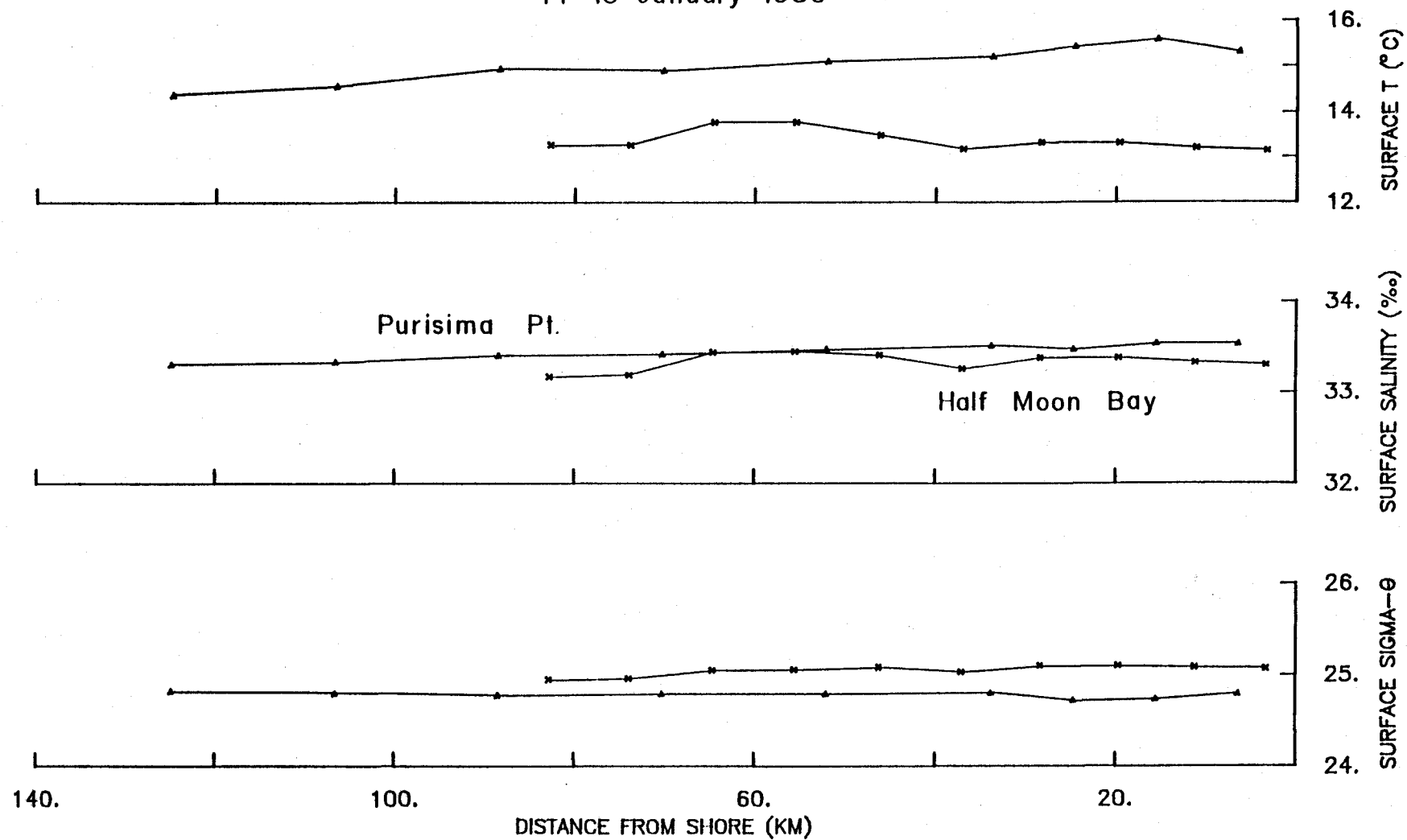
OFFSHORE PROFILES

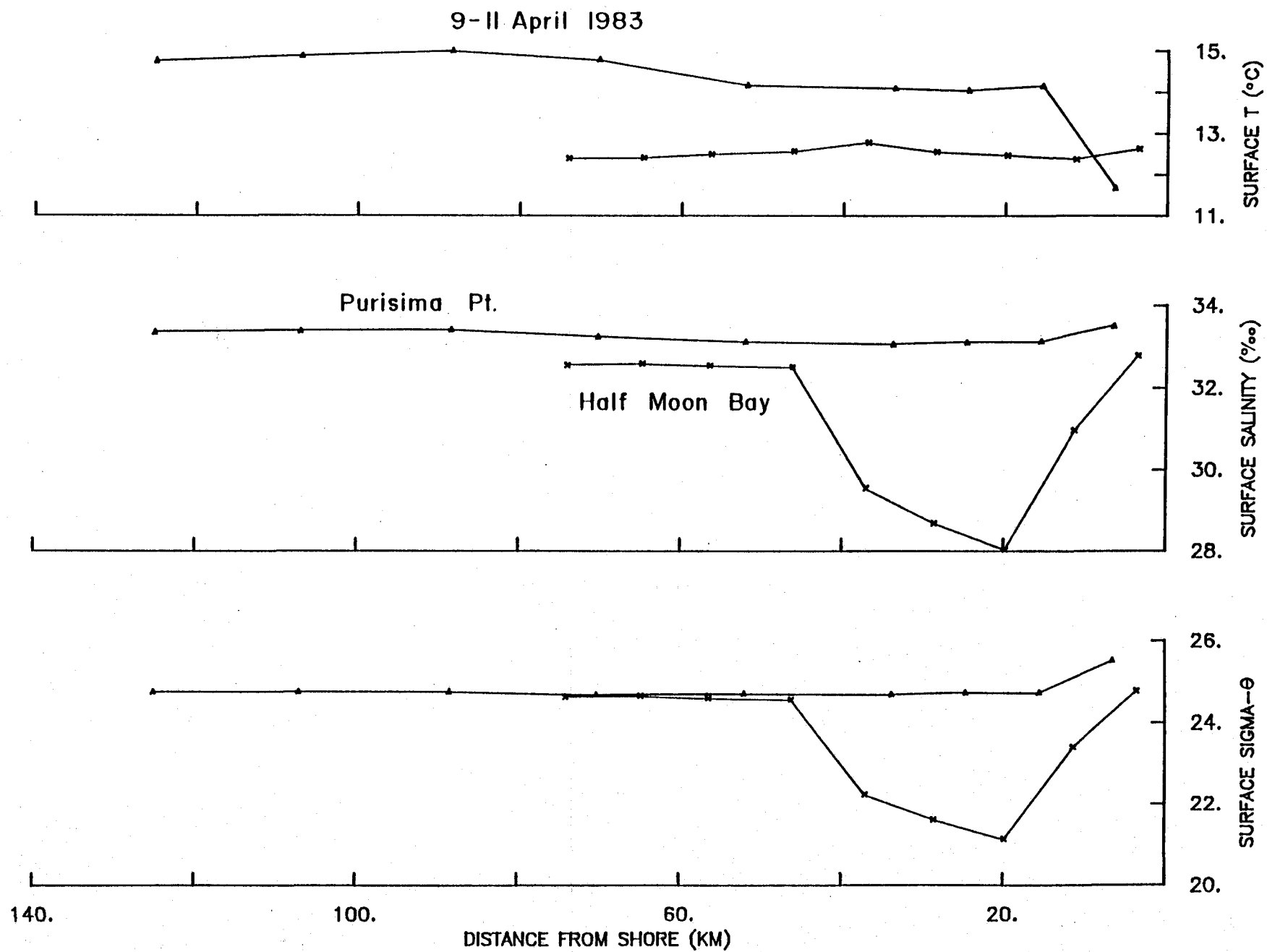


12 - 16 April 1983

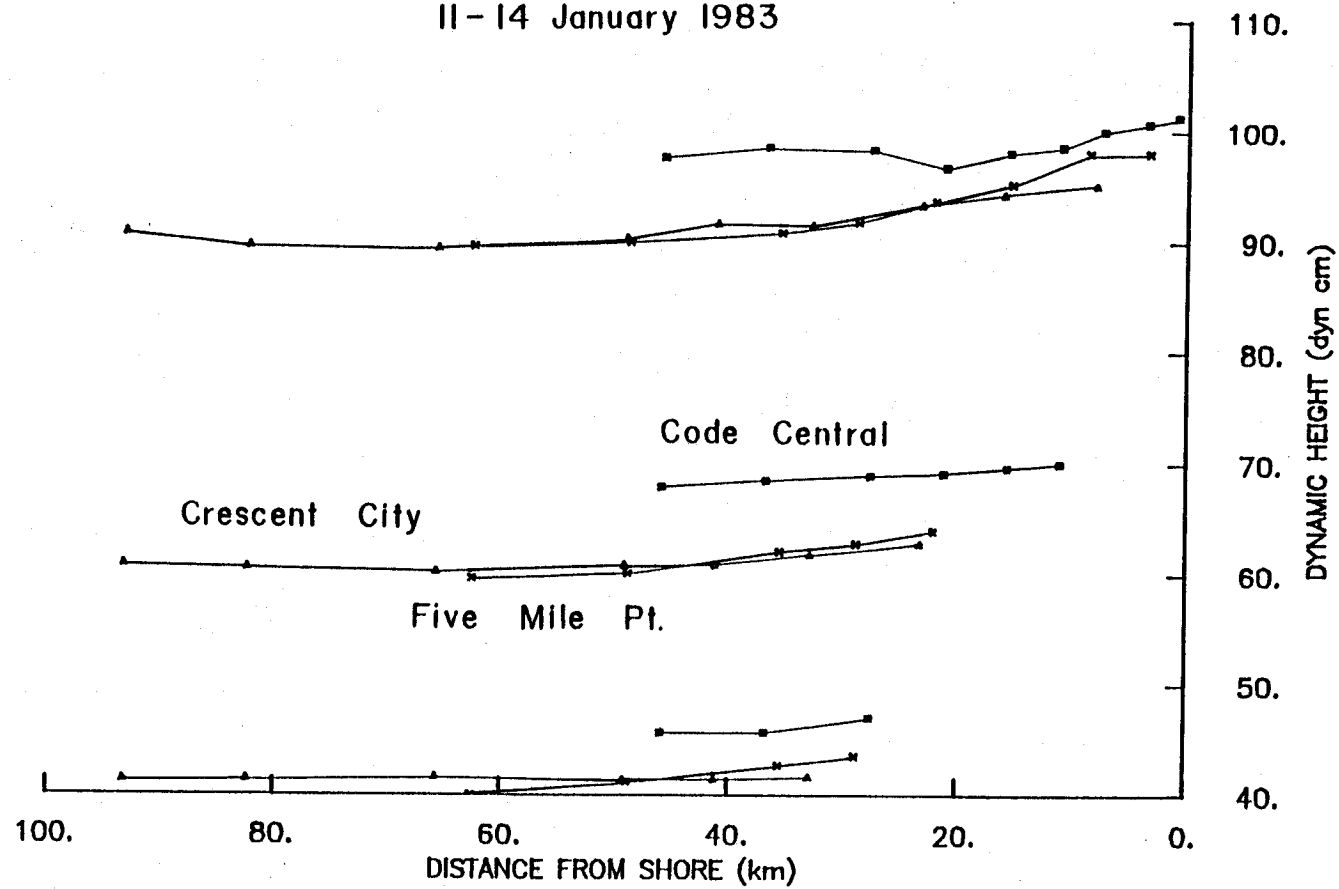


14-15 January 1983

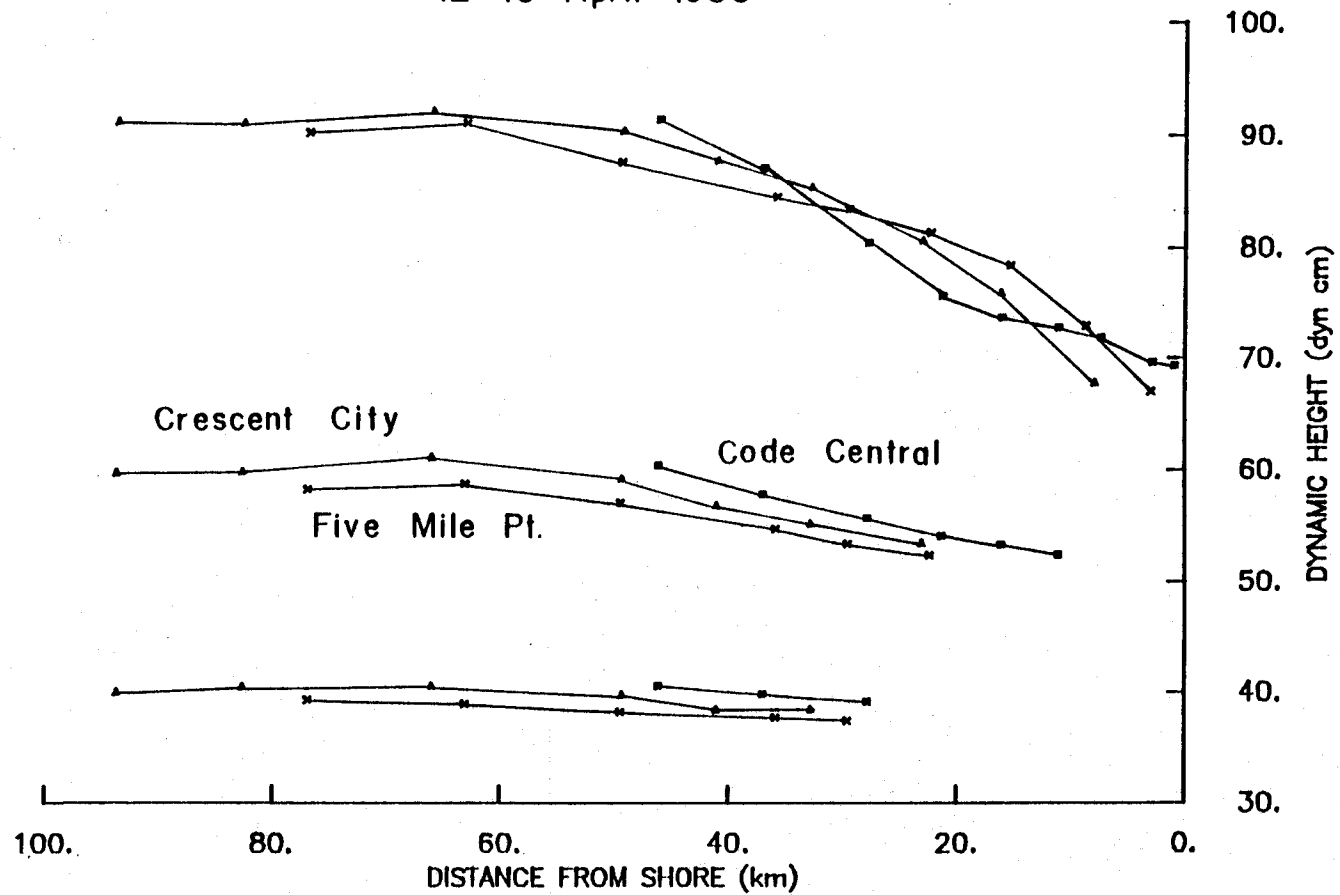




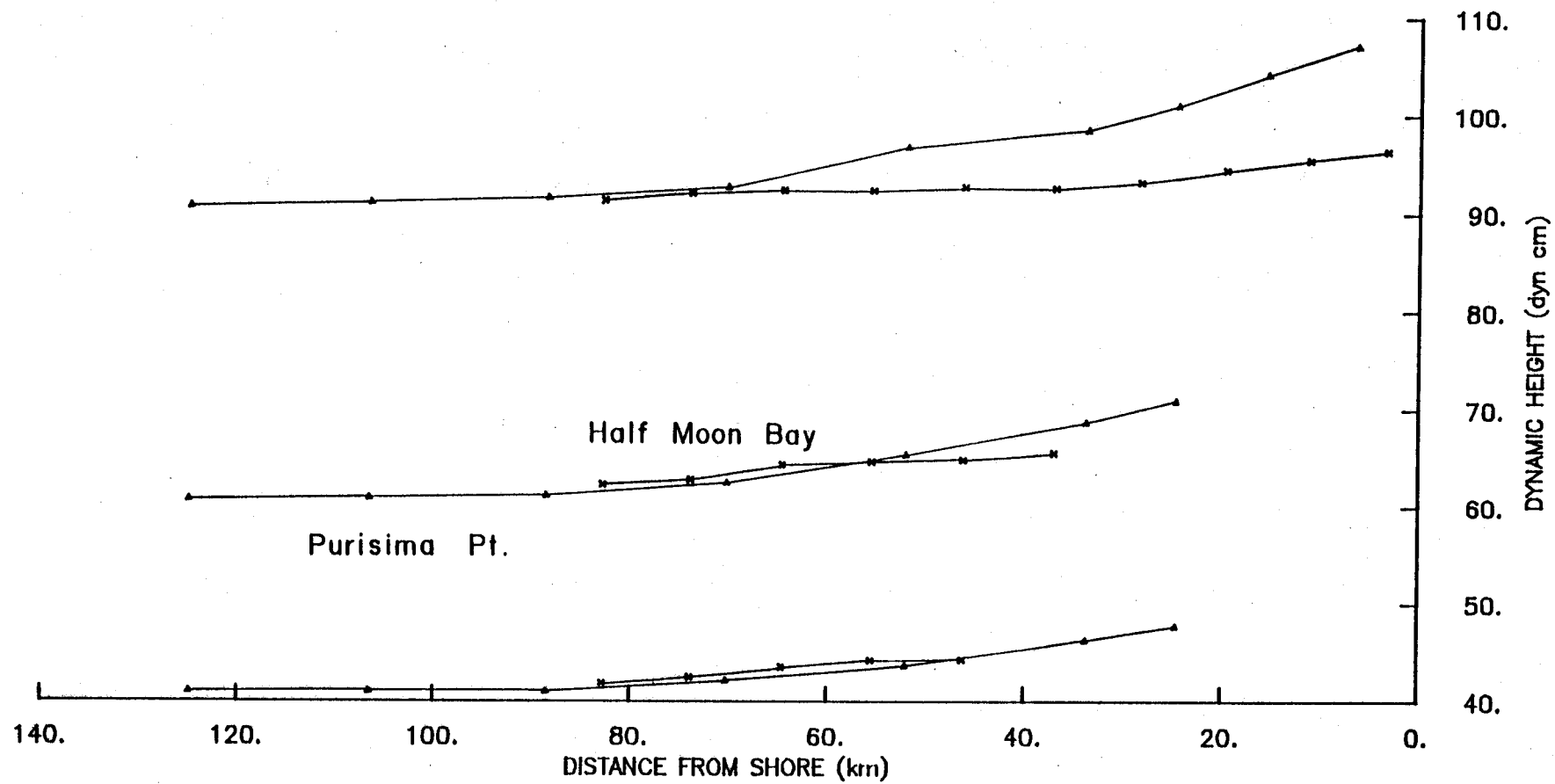
11-14 January 1983



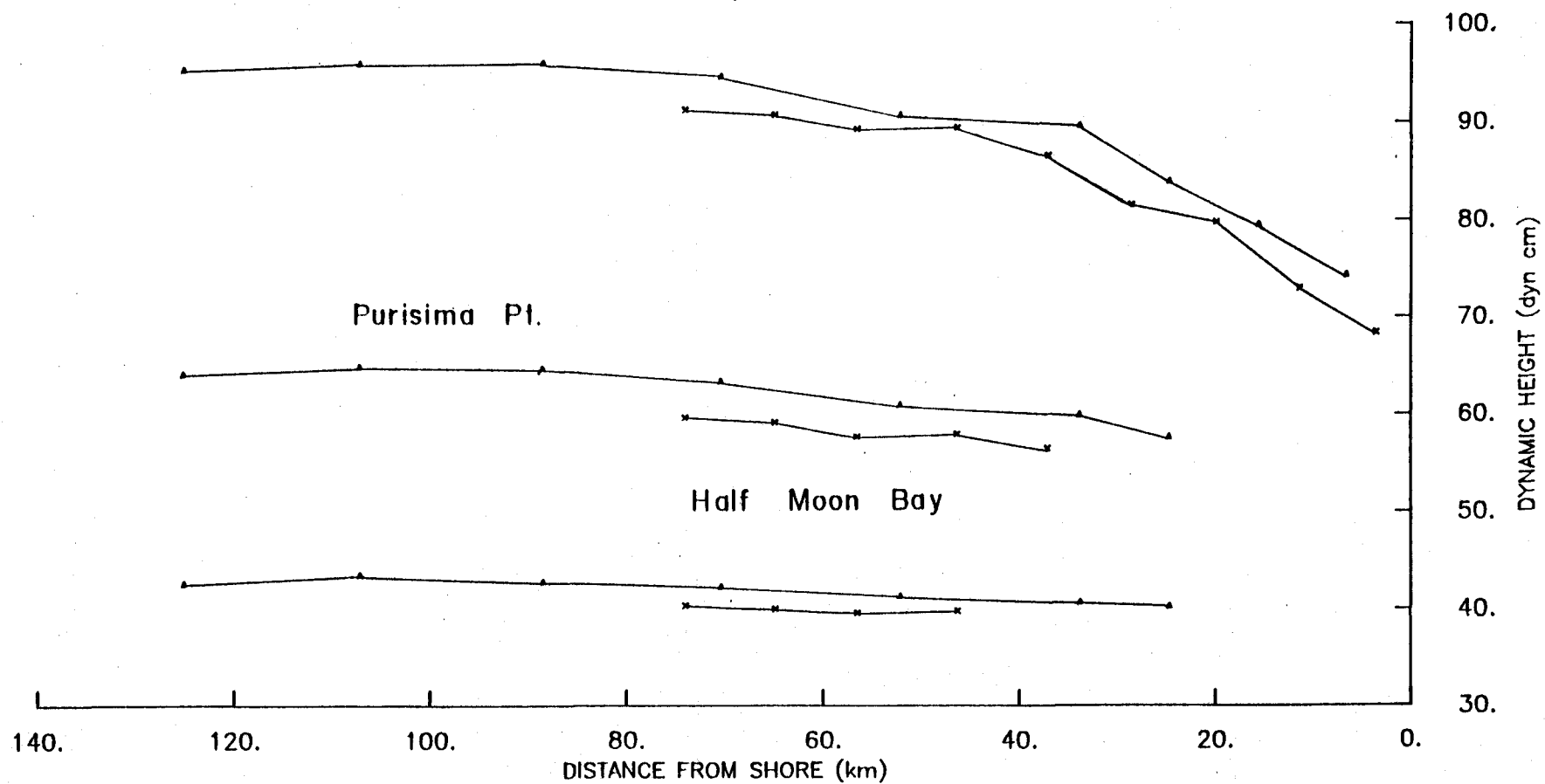
12-16 April 1983



14-15 January 1983

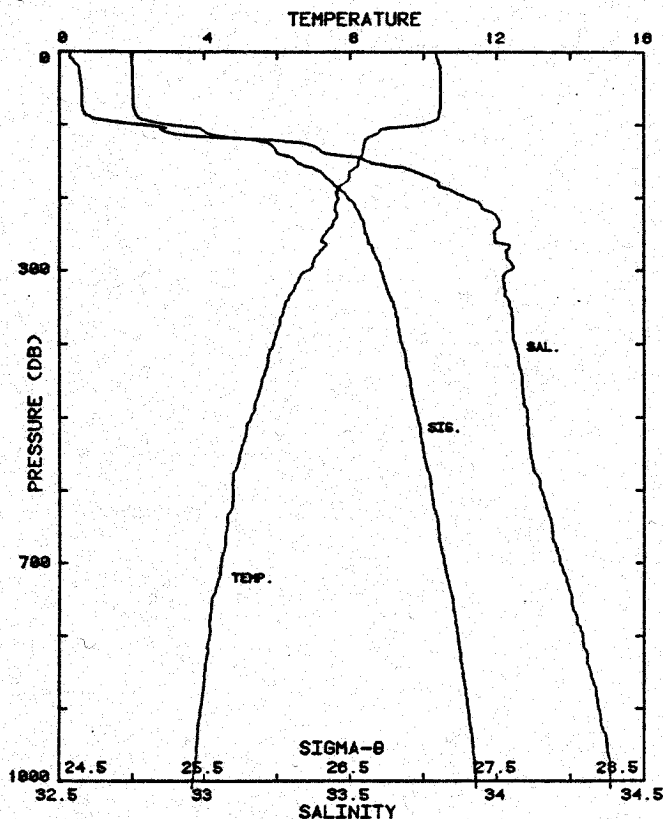


9-11 April 1983



PROFILE PLOTS AND LISTINGS

Leg 1



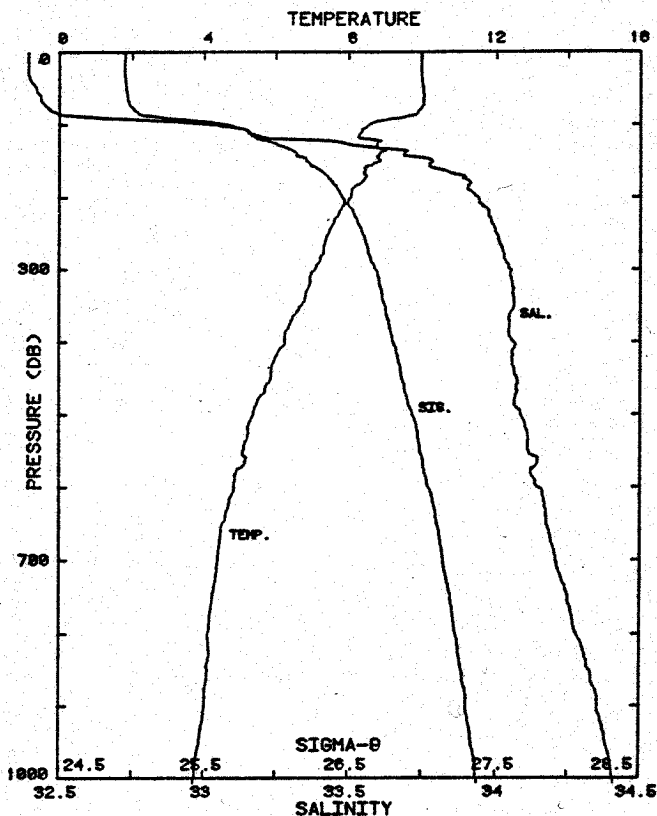
STATION 1 FM 9

STA NO 1 FM9 LAT: 43 13.0 N LONG:125 10.0 W
 11 JAN 1983 0755 GMT PROBE 2561 DEPTH 1647M
 62.6 KM FROM SHORE

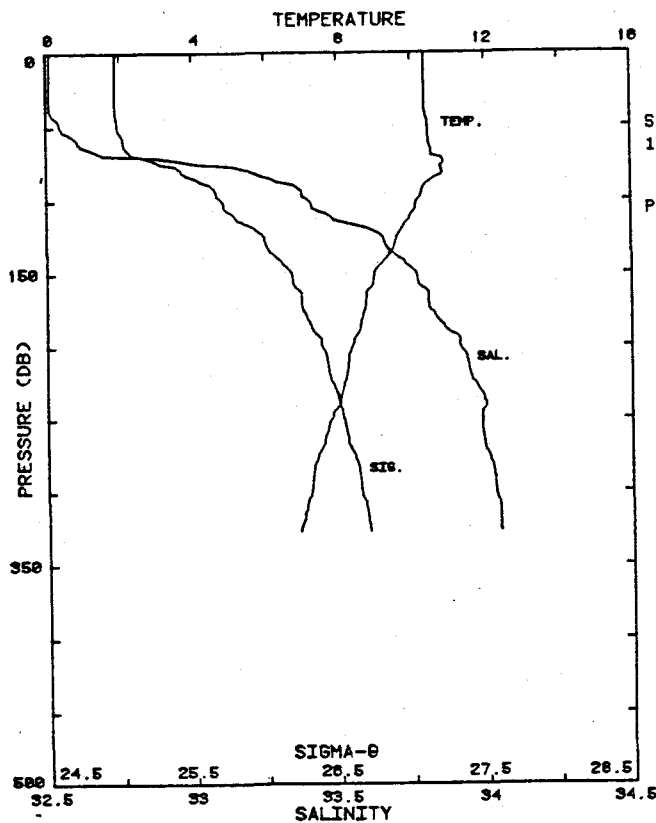
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.331	32.537	10.331	24.996	297.1	0.003
10	10.375	32.543	10.374	24.994	297.5	0.030
20	10.454	32.566	10.451	24.998	297.3	0.059
30	10.460	32.571	10.456	25.001	297.2	0.089
40	10.469	32.574	10.464	25.003	297.3	0.119
50	10.471	32.578	10.465	25.005	297.3	0.149
60	10.471	32.578	10.464	25.006	297.4	0.178
70	10.470	32.579	10.462	25.007	297.5	0.208
80	10.446	32.582	10.437	25.013	297.1	0.238
90	10.401	32.611	10.391	25.043	294.5	0.267
100	9.944	32.774	9.933	25.247	275.2	0.296
110	8.772	32.866	8.761	25.507	250.5	0.322
120	8.427	33.181	8.415	25.806	222.2	0.346
130	8.355	33.379	8.341	25.972	206.6	0.367
140	8.322	33.425	8.308	26.013	202.9	0.388
150	8.218	33.556	8.203	26.132	191.8	0.407
175	7.952	33.787	7.934	26.352	171.3	0.452
200	7.661	33.897	7.641	26.481	159.4	0.494
225	7.625	33.998	7.603	26.566	151.8	0.532
250	7.315	33.992	7.291	26.606	148.3	0.570
300	6.869	34.043	6.841	26.708	139.1	0.641
400	5.894	34.062	5.860	26.851	126.3	0.773
500	5.284	34.105	5.243	26.959	116.7	0.895
600	4.789	34.152	4.742	27.054	108.3	1.007
800	4.144	34.292	4.084	27.236	92.2	1.208
1000	3.665	34.386	3.592	27.361	81.2	1.380
1009	3.655	34.387	3.581	27.363	81.1	1.387

STA NO 2 FM8 LAT: 43 13.0 N LONG:124 59.9 W
 11 JAN 1983 0935 GMT PROBE 2561 DEPTH 1078M
 48.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	9.957	32.397	9.957	24.950	301.4	0.003
10	9.966	32.397	9.965	24.949	301.8	0.030
20	9.971	32.397	9.968	24.948	302.0	0.060
30	9.970	32.397	9.967	24.948	302.2	0.091
40	9.990	32.406	9.985	24.953	302.0	0.121
50	10.025	32.424	10.019	24.961	301.4	0.151
60	10.045	32.439	10.038	24.969	300.8	0.181
70	10.033	32.447	10.025	24.977	300.3	0.211
80	9.931	32.471	9.923	25.013	297.0	0.241
90	9.513	32.619	9.503	25.197	279.7	0.270
100	8.577	33.015	8.567	25.653	236.4	0.296
110	8.354	33.156	8.343	25.797	222.8	0.319
120	8.424	33.267	8.412	25.873	215.8	0.341
130	8.754	33.539	8.741	26.036	200.7	0.361
140	8.845	33.689	8.830	26.140	191.1	0.381
150	8.864	33.781	8.848	26.208	184.8	0.400
175	8.421	33.885	8.403	26.359	170.8	0.444
200	8.063	33.934	8.043	26.452	162.4	0.486
225	7.714	33.973	7.692	26.533	154.9	0.525
250	7.443	33.998	7.419	26.592	149.6	0.563
300	7.076	34.046	7.048	26.682	141.8	0.636
400	6.251	34.057	6.215	26.802	131.3	0.772
500	5.362	34.083	5.321	26.933	119.3	0.898
600	4.829	34.142	4.782	27.042	109.5	1.012
800	4.115	34.279	4.055	27.229	92.7	1.212
1000	3.736	34.409	3.662	27.373	80.4	1.385
1007	3.711	34.414	3.638	27.378	79.8	1.391



STATION 2 FM 8



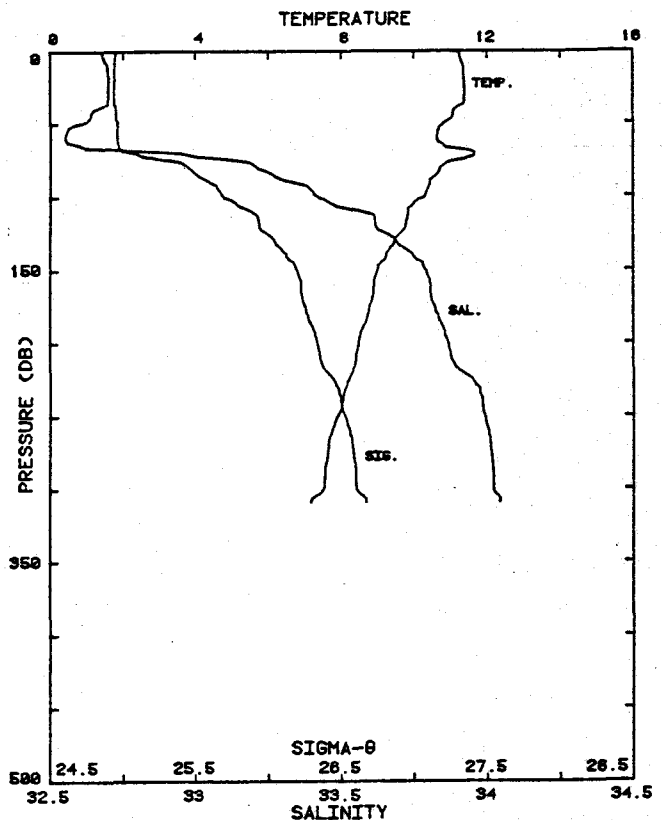
STATION 3 FM 7

STA NO 3 FM7 LAT: 43 13.0 N LONG:124 50.0 W
 11 JAN 1983 1114 GMT PROBE 2561 DEPTH 332M
 35.6 KM FROM SHORE

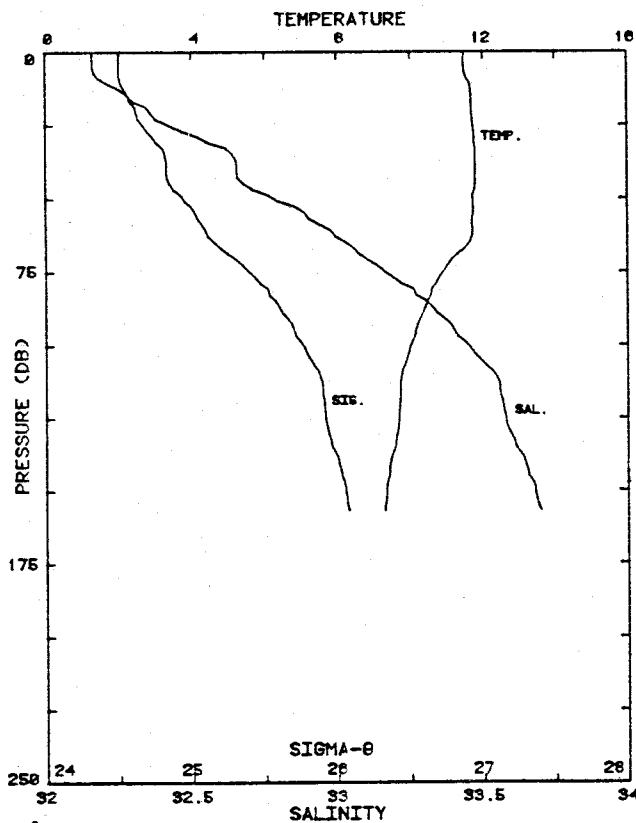
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.370	32.514	10.370	24.972	299.3	0.003
10	10.364	32.514	10.363	24.973	299.5	0.030
20	10.370	32.513	10.367	24.971	299.8	0.060
30	10.370	32.512	10.366	24.971	300.1	0.090
40	10.379	32.516	10.375	24.972	300.2	0.120
50	10.455	32.548	10.450	24.985	299.2	0.150
60	10.485	32.607	10.478	25.026	295.5	0.180
70	10.680	32.787	10.672	25.132	285.7	0.209
80	10.844	33.198	10.834	25.423	258.3	0.236
90	10.345	33.353	10.335	25.631	238.7	0.261
100	10.154	33.401	10.143	25.701	232.2	0.284
110	9.983	33.469	9.970	25.782	224.7	0.307
120	9.730	33.613	9.717	25.937	210.2	0.329
130	9.541	33.662	9.526	26.006	203.7	0.350
140	9.279	33.715	9.263	26.090	195.9	0.370
150	8.978	33.763	8.962	26.177	187.8	0.389
175	8.719	33.810	8.701	26.254	180.9	0.435
200	8.383	33.911	8.363	26.385	168.8	0.479
225	8.155	33.962	8.133	26.460	162.1	0.520
250	7.797	33.985	7.773	26.531	155.6	0.560
300	7.220	34.030	7.192	26.650	144.9	0.634
327	6.899	34.044	6.869	26.705	139.9	0.673

STA NO 4 FM6 LAT: 43 13.0 N LONG:124 45.0 W
 11 JAN 1983 1209 GMT PROBE 2561 DEPTH 312M
 28.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.237	32.677	11.237	24.947	301.7	0.003
10	11.344	32.695	11.343	24.942	302.4	0.030
20	11.378	32.700	11.376	24.940	302.9	0.060
30	11.389	32.700	11.386	24.938	303.3	0.091
40	11.147	32.661	11.142	24.951	302.2	0.121
50	10.834	32.604	10.828	24.963	301.3	0.151
60	10.625	32.552	10.618	24.959	301.9	0.181
70	11.587	32.878	11.578	25.041	294.5	0.212
80	10.753	33.207	10.744	25.446	256.1	0.239
90	10.431	33.320	10.421	25.590	242.6	0.264
100	10.295	33.415	10.283	25.688	233.5	0.288
110	9.827	33.550	9.815	25.872	216.1	0.310
120	9.753	33.617	9.740	25.936	210.2	0.331
130	9.463	33.686	9.448	26.038	200.7	0.352
140	9.220	33.745	9.205	26.123	192.7	0.372
150	8.988	33.788	8.972	26.194	186.2	0.390
175	8.775	33.819	8.756	26.253	181.1	0.436
200	8.470	33.867	8.449	26.337	173.4	0.481
225	8.198	33.947	8.175	26.442	163.8	0.523
250	7.886	33.991	7.861	26.523	156.5	0.563
300	7.496	34.021	7.467	26.604	149.5	0.639
309	7.146	34.042	7.117	26.669	143.2	0.652



STATION 4 FM 6

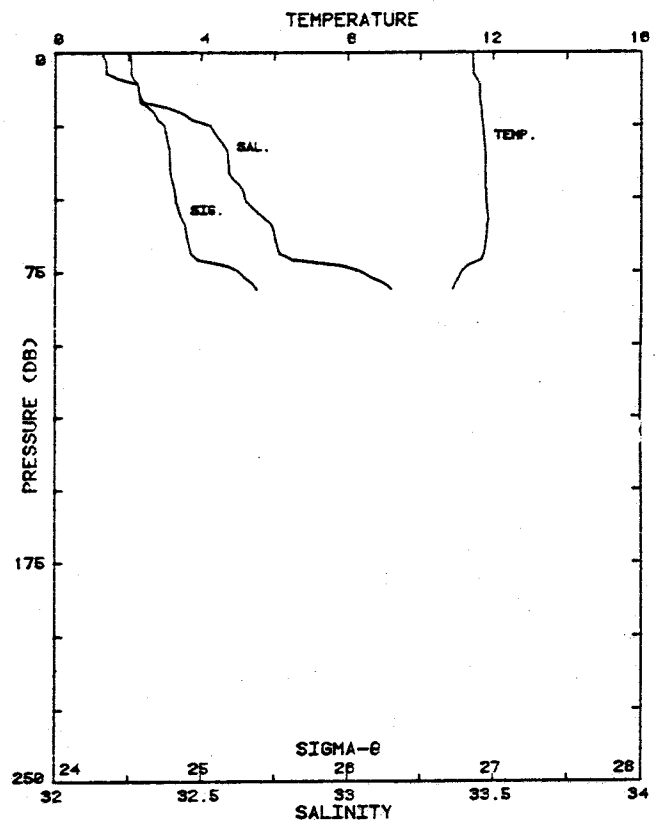


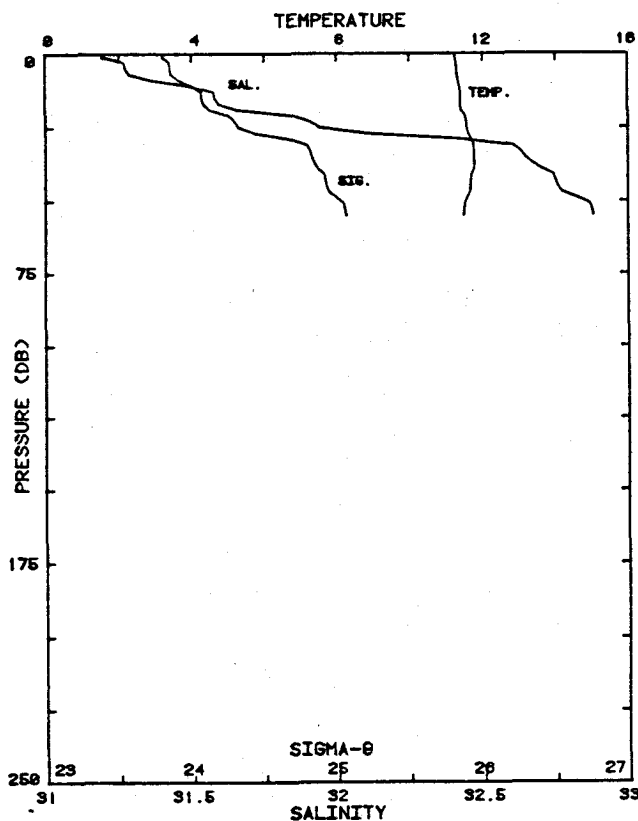
STA NO 5 FM5 LAT: 43 13.0 N LONG:124 40.0 W
 11 JAN 1983 1259 GMT PROBE 2561 DEPTH 160M
 22.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.480	32.159	11.480	24.502	344.1	0.003
10	11.599	32.197	11.598	24.510	343.6	0.034
20	11.693	32.354	11.690	24.614	333.9	0.068
30	11.764	32.538	11.760	24.744	321.7	0.101
40	11.790	32.652	11.785	24.828	314.0	0.133
50	11.714	32.776	11.708	24.938	303.8	0.164
60	11.711	32.960	11.703	25.081	290.4	0.194
70	11.211	33.091	11.203	25.274	272.2	0.222
80	10.645	33.240	10.636	25.491	251.8	0.248
90	10.304	33.353	10.294	25.637	238.1	0.273
100	10.003	33.447	9.992	25.761	226.4	0.296
110	9.746	33.539	9.734	25.876	215.7	0.318
120	9.686	33.566	9.673	25.908	212.9	0.339
130	9.622	33.591	9.607	25.938	210.2	0.360
140	9.444	33.642	9.429	26.007	203.8	0.381
150	9.327	33.678	9.311	26.054	199.5	0.401
157	9.274	33.698	9.257	26.078	197.4	0.415

STA NO 6 FM4 LAT: 43 13.0 N LONG:124 35.0 W
 11 JAN 1983 1342 GMT PROBE 2561 DEPTH 85M
 15.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.441	32.162	11.441	24.511	343.3	0.003
10	11.586	32.250	11.584	24.553	339.5	0.034
20	11.677	32.412	11.674	24.662	329.3	0.068
30	11.753	32.564	11.749	24.766	319.7	0.100
40	11.774	32.593	11.769	24.785	318.1	0.132
50	11.806	32.649	11.799	24.823	314.8	0.164
60	11.822	32.742	11.814	24.892	308.4	0.195
70	11.701	32.789	11.693	24.951	303.0	0.226
80	10.920	33.136	10.910	25.362	264.1	0.253
81	10.891	33.148	10.881	25.376	262.8	0.256



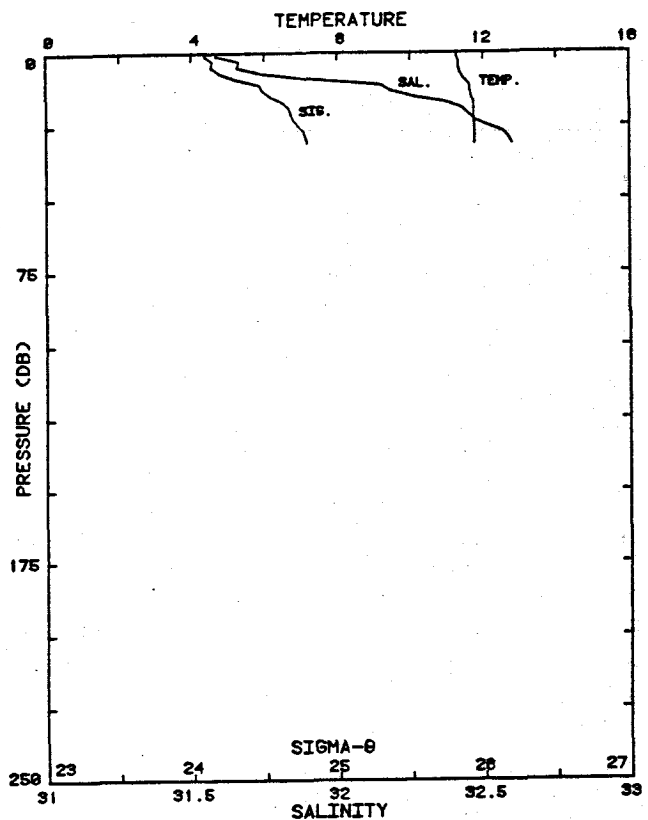


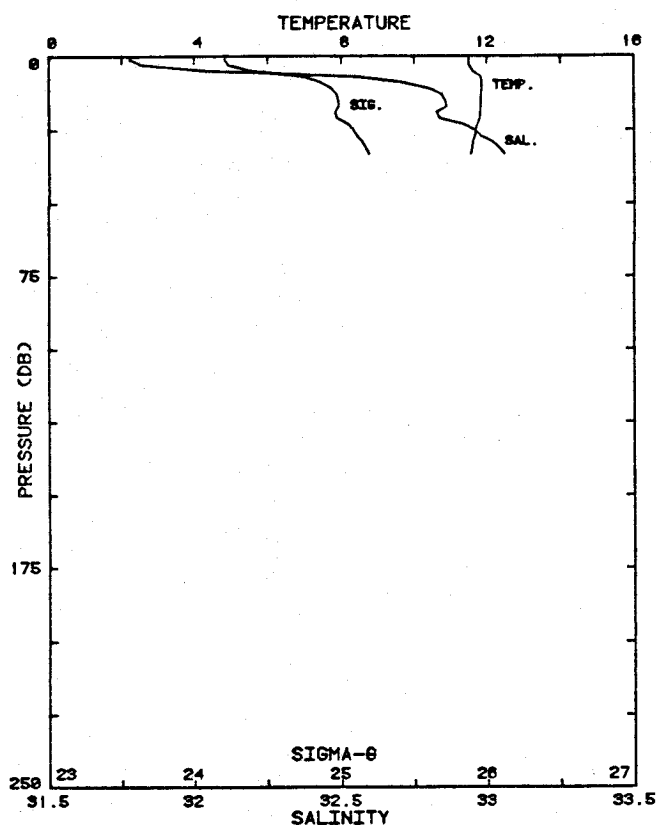
STA NO 7 FM3 LAT: 43 13.0 N LONG:124 30.0 W
 11 JAN 1983 1430 GMT PROBE 2561 DEPTH 58M
 8.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.247	31.193	11.247	23.795	411.6	0.004
10	11.350	31.425	11.349	23.956	396.3	0.041
20	11.464	31.751	11.462	24.189	374.4	0.079
30	11.714	32.508	11.710	24.730	323.1	0.115
40	11.728	32.722	11.723	24.894	307.8	0.146
50	11.532	32.847	11.526	25.026	295.4	0.176
55	11.467	32.883	11.460	25.066	291.7	0.191

STA NO 8 FM1 LAT: 43 13.0 N LONG:124 26.1 W
 11 JAN 1983 1510 GMT PROBE 2561 DEPTH 36M
 3.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.267	31.583	11.267	24.093	383.1	0.004
10	11.553	32.023	11.552	24.383	355.6	0.037
20	11.738	32.438	11.735	24.672	328.4	0.071
30	11.756	32.591	11.752	24.787	317.7	0.104
31	11.758	32.598	11.754	24.792	317.2	0.107



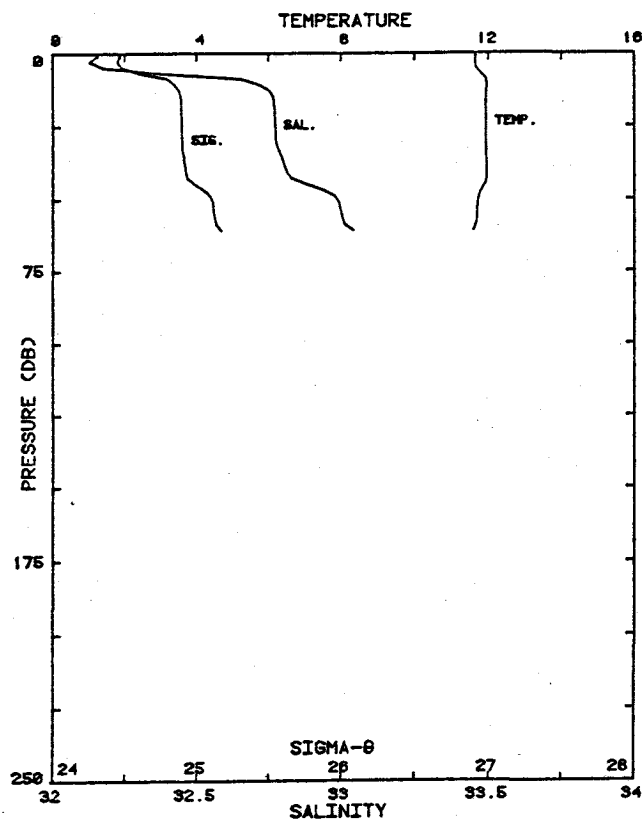


STA NO 9 CR1 LAT: 41 54.0 N LONG:124 18.1 W
 11 JAN 1983 2326 GMT PROBE 2561 DEPTH 41M
 8.0 KM FROM SHORE

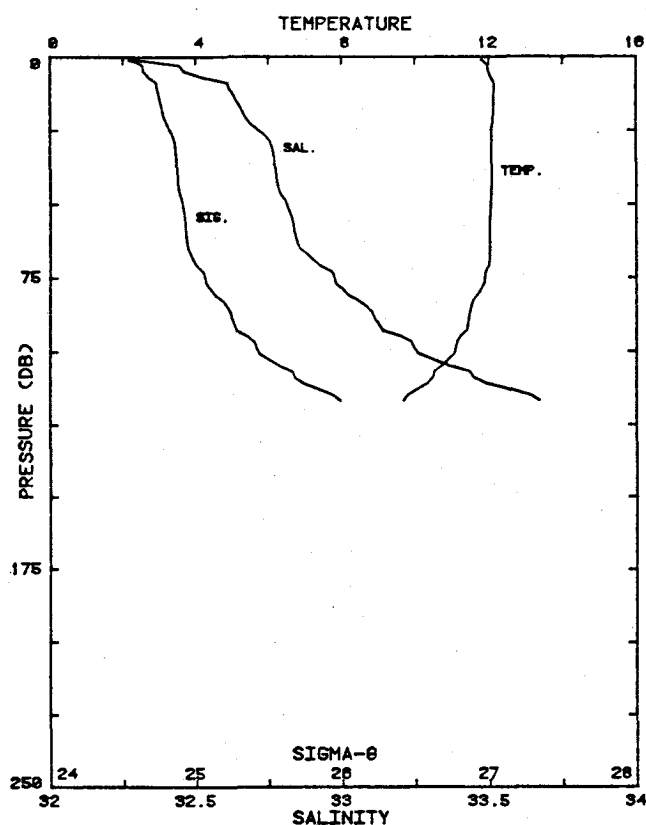
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.502	31.779	11.502	24.203	372.6	0.004
10	11.862	32.758	11.861	24.896	306.8	0.035
20	11.805	32.832	11.802	24.964	300.6	0.065
30	11.597	33.030	11.593	25.156	282.5	0.094
33	11.550	33.058	11.546	25.186	279.7	0.102

STA NO 10 CR2 LAT: 41 54.0 N LONG:124 24.0 W
 12 JAN 1983 0026 GMT PROBE 2561 DEPTH 67M
 16.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.648	32.155	11.648	24.468	347.4	0.003
10	11.947	32.690	11.946	24.827	313.4	0.034
20	11.923	32.772	11.921	24.896	307.1	0.065
30	11.929	32.776	11.926	24.898	307.1	0.095
40	11.947	32.811	11.942	24.922	305.1	0.126
50	11.717	32.985	11.710	25.100	288.4	0.156
60	11.623	33.026	11.616	25.149	284.0	0.184
61	11.591	33.040	11.584	25.166	282.4	0.187



STATION 10 CR 2



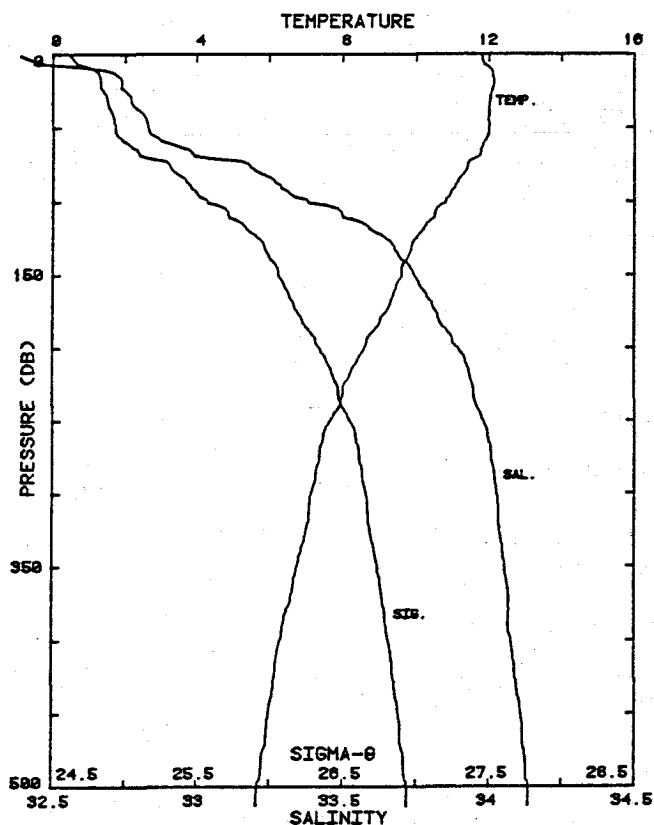
STATION 11 CR 3

STA NO 11 CR3 LAT: 41 54.0 N LONG:124 29.2 W
 12 JAN 1983 0123 GMT PROBE 2561 DEPTH 122M
 23.3 KM FROM SHORE

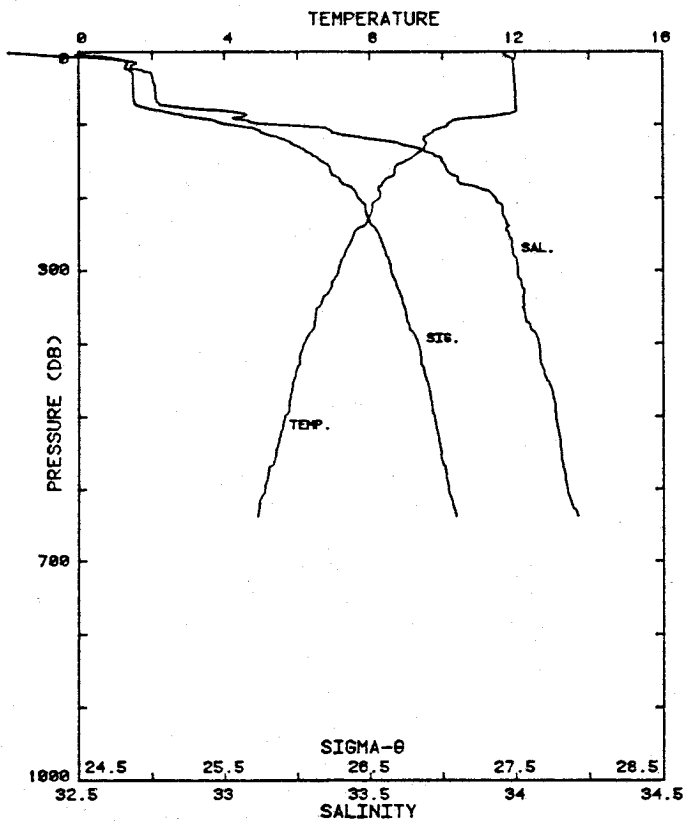
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.796	32.286	11.795	24.542	340.3	0.003
10	12.130	32.613	12.129	24.734	322.3	0.033
20	12.116	32.669	12.114	24.779	318.2	0.065
30	12.072	32.760	12.069	24.859	310.9	0.097
40	12.060	32.775	12.055	24.873	309.8	0.128
50	12.030	32.811	12.024	24.907	306.8	0.158
60	12.016	32.840	12.009	24.932	304.6	0.189
70	11.998	32.913	11.989	24.992	299.1	0.219
80	11.730	33.013	11.720	25.119	287.3	0.249
90	11.435	33.119	11.423	25.256	274.5	0.276
100	11.068	33.254	11.056	25.427	258.4	0.303
110	10.401	33.468	10.388	25.711	231.5	0.327
117	9.681	33.671	9.668	25.990	205.1	0.343

STA NO 12 CR4 LAT: 41 54.0 N LONG:124 36.2 W
 12 JAN 1983 0240 GMT PROBE 2561 DEPTH 517M
 32.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.801	32.391	11.800	24.623	332.6	0.003
10	12.023	32.635	12.022	24.771	318.7	0.033
20	12.125	32.740	12.122	24.833	313.1	0.064
30	12.024	32.771	12.020	24.876	309.2	0.095
40	11.994	32.808	11.989	24.910	306.2	0.126
50	11.980	32.831	11.973	24.931	304.4	0.157
60	11.855	32.891	11.848	25.001	298.0	0.187
70	11.688	33.016	11.680	25.129	286.1	0.216
80	11.337	33.209	11.327	25.344	265.9	0.243
90	11.052	33.288	11.041	25.456	255.4	0.269
100	10.792	33.380	10.780	25.574	244.4	0.294
110	10.486	33.498	10.473	25.719	230.8	0.318
120	10.160	33.601	10.146	25.856	218.0	0.340
130	9.855	33.671	9.841	25.961	208.1	0.361
140	9.696	33.705	9.680	26.015	203.2	0.382
150	9.592	33.742	9.575	26.061	199.0	0.402
175	9.175	33.815	9.156	26.186	187.6	0.450
200	8.580	33.891	8.560	26.340	173.2	0.495
225	8.043	33.943	8.021	26.462	161.9	0.537
250	7.657	33.979	7.633	26.547	154.1	0.577
300	7.133	34.028	7.104	26.660	143.9	0.651
400	6.296	34.077	6.261	26.812	130.4	0.789
500	5.671	34.137	5.629	26.939	119.1	0.913
513	5.659	34.138	5.616	26.941	119.1	0.929



STATION 12 CR 4



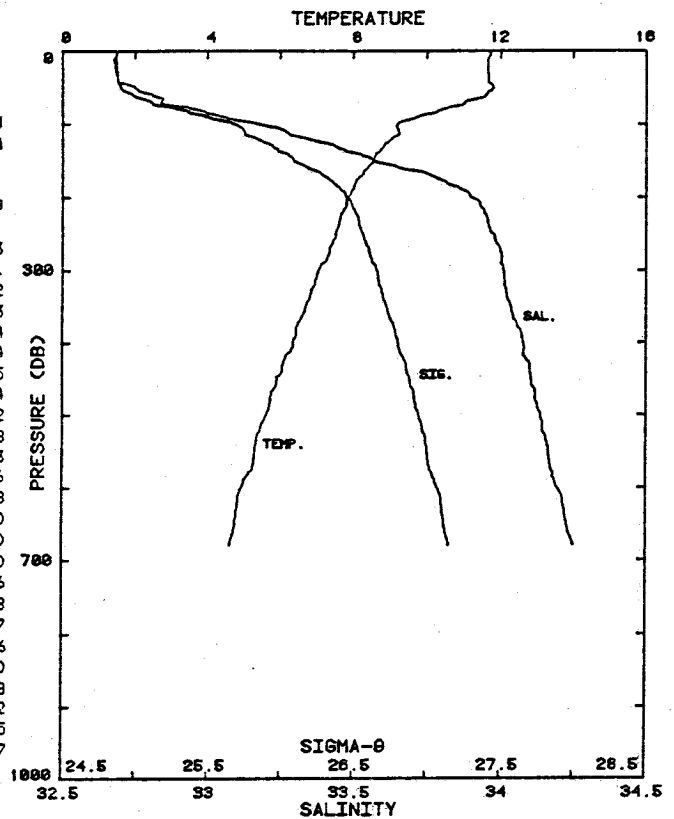
STATION 13 CR 5

STA NO 13 CR5 LAT: 41 54.0 N LONG:124 42.2 W
 12 JAN 1983 0358 GMT PROBE 2561 DEPTH 650M
 41.2 KM FROM SHORE

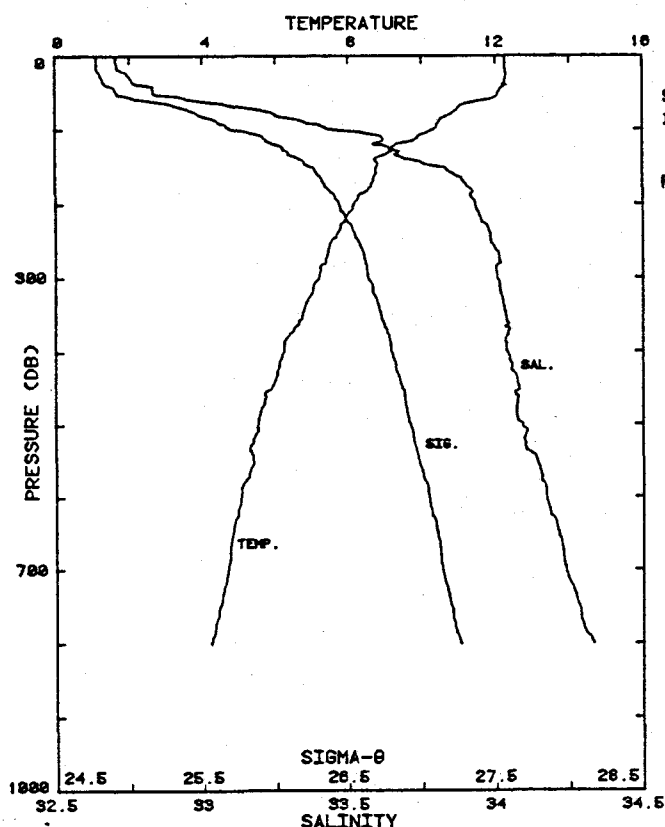
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.717	32.264	11.717	24.539	340.6	0.003
10	11.913	32.606	11.912	24.769	318.9	0.034
20	11.944	32.679	11.941	24.819	314.4	0.065
30	11.967	32.749	11.963	24.870	309.8	0.096
40	11.974	32.754	11.969	24.872	309.8	0.127
50	11.985	32.760	11.979	24.875	309.8	0.158
60	11.996	32.763	11.988	24.876	310.0	0.189
70	11.994	32.769	11.986	24.881	309.7	0.220
80	12.040	32.954	12.029	25.016	297.1	0.251
90	11.014	33.047	11.003	25.275	272.6	0.279
100	10.141	33.162	10.129	25.517	249.7	0.305
110	9.733	33.366	9.721	25.743	228.3	0.329
120	9.470	33.497	9.457	25.890	214.6	0.351
130	9.499	33.639	9.485	25.996	204.7	0.372
140	9.300	33.713	9.285	26.085	196.4	0.392
150	8.996	33.746	8.980	26.160	189.4	0.411
175	8.423	33.802	8.405	26.293	177.0	0.457
200	8.272	33.930	8.252	26.417	165.7	0.500
225	8.001	33.956	7.978	26.478	160.3	0.540
250	7.547	33.977	7.523	26.561	152.7	0.579
300	7.121	34.007	7.093	26.645	145.3	0.654
400	6.166	34.079	6.131	26.830	128.6	0.791
500	5.647	34.137	5.605	26.941	118.8	0.915
600	5.088	34.175	5.040	27.039	110.2	1.030
637	4.890	34.210	4.840	27.089	105.6	1.069

STA NO 14 CR6 LAT: 41 54.0 N LONG:124 48.0 W
 12 JAN 1983 0521 GMT PROBE 2561 DEPTH 689M
 49.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.709	32.689	11.709	24.870	309.0	0.003
10	11.655	32.680	11.654	24.874	308.9	0.031
20	11.647	32.682	11.644	24.877	308.9	0.062
30	11.651	32.686	11.648	24.879	308.9	0.093
40	11.661	32.691	11.656	24.882	308.9	0.124
50	11.797	32.750	11.791	24.902	307.2	0.154
60	11.605	32.810	11.598	24.985	299.6	0.185
70	11.053	32.839	11.045	25.107	288.1	0.214
80	10.443	32.960	10.434	25.308	269.1	0.242
90	9.764	33.054	9.754	25.495	251.4	0.268
100	9.200	33.177	9.189	25.682	233.7	0.293
110	9.233	33.268	9.221	25.749	227.6	0.316
120	9.046	33.343	9.033	25.837	219.4	0.338
130	8.829	33.436	8.815	25.944	209.4	0.360
140	8.638	33.510	8.623	26.032	201.3	0.380
150	8.537	33.570	8.521	26.094	195.5	0.400
175	8.124	33.787	8.106	26.327	173.8	0.446
200	7.863	33.899	7.843	26.453	162.1	0.488
225	7.651	33.950	7.629	26.525	155.7	0.527
250	7.506	33.973	7.482	26.564	152.4	0.566
300	7.031	34.011	7.004	26.660	143.8	0.640
400	6.341	34.077	6.305	26.806	131.0	0.778
500	5.613	34.137	5.571	26.946	118.4	0.902
600	4.929	34.196	4.881	27.074	106.7	1.015
679	4.620	34.252	4.567	27.153	99.6	1.097



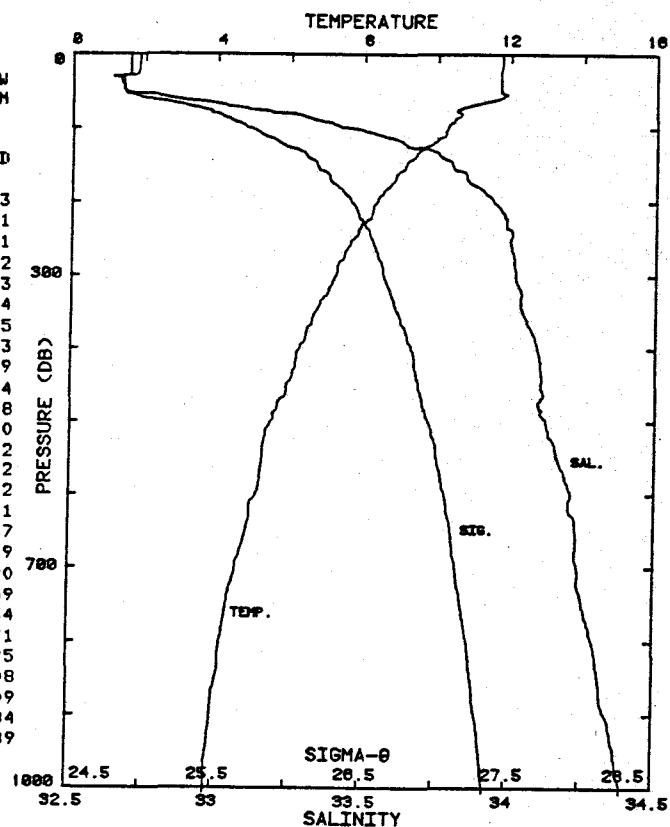
STATION 14 CR 6

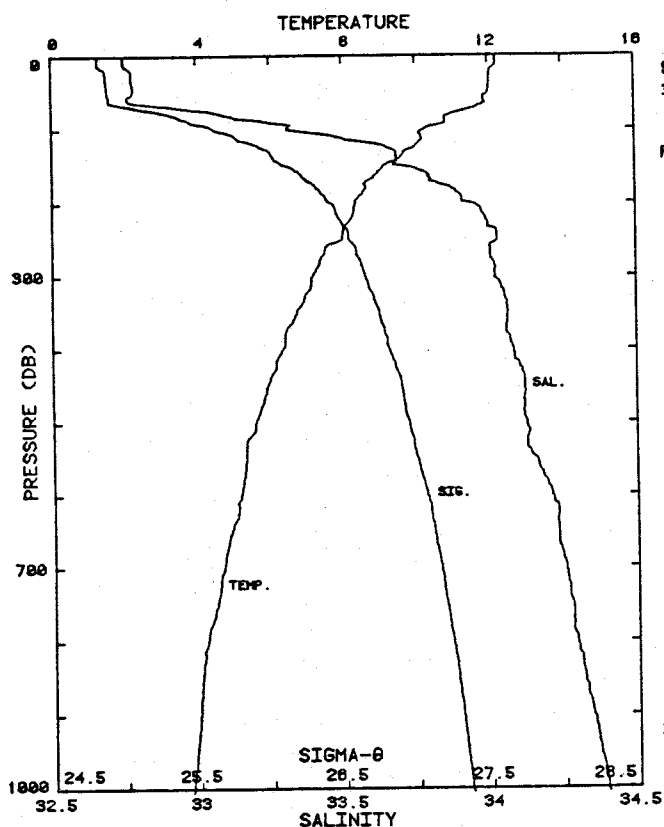


STATION 15 CR 7

STA NO 16 CR8 LAT: 41 54.0 N LONG:125 12.1 W
12 JAN 1983 0843 GMT PROBE 2561 DEPTH 2771M
82.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.749	32.731	11.749	24.895	306.7	0.003
10	11.751	32.731	11.750	24.895	306.9	0.031
20	11.743	32.730	11.741	24.896	307.1	0.061
30	11.713	32.678	11.710	24.862	310.6	0.092
40	11.717	32.668	11.712	24.854	311.6	0.123
50	11.729	32.680	11.723	24.861	311.1	0.154
60	11.685	32.850	11.678	25.001	298.0	0.185
70	10.901	33.030	10.893	25.282	271.5	0.213
80	10.634	33.223	10.625	25.479	252.9	0.239
90	10.444	33.347	10.434	25.608	240.8	0.264
100	10.256	33.444	10.244	25.716	230.8	0.288
110	10.191	33.551	10.179	25.811	222.0	0.310
120	9.901	33.631	9.888	25.922	211.6	0.332
130	9.566	33.726	9.551	26.052	199.4	0.352
140	9.377	33.764	9.362	26.113	193.8	0.372
150	9.145	33.799	9.129	26.178	187.8	0.391
175	8.775	33.862	8.757	26.286	177.9	0.437
200	8.358	33.944	8.338	26.415	166.0	0.479
225	8.115	33.989	8.092	26.487	159.5	0.520
250	7.737	34.003	7.712	26.554	153.4	0.559
300	7.254	34.021	7.225	26.637	146.1	0.634
400	6.284	34.097	6.249	26.829	128.8	0.771
500	5.539	34.125	5.498	26.945	118.4	0.895
600	5.135	34.217	5.087	27.066	107.7	1.008
800	4.202	34.294	4.142	27.232	92.7	1.209
1000	3.812	34.395	3.738	27.354	82.3	1.384
1007	3.798	34.394	3.724	27.354	82.3	1.389





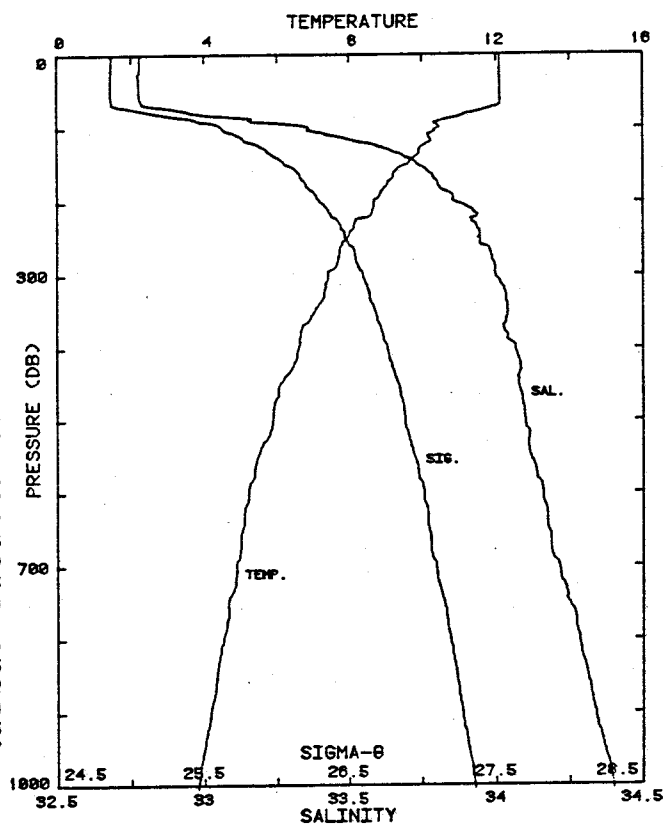
STA NO 17 CR9 LAT: 41 54.0 N LONG: 125 20.0 W
12 JAN 1983 1012 GMT PROBE 2561 DEPTH 3115M
93.2 KM FROM SHORE

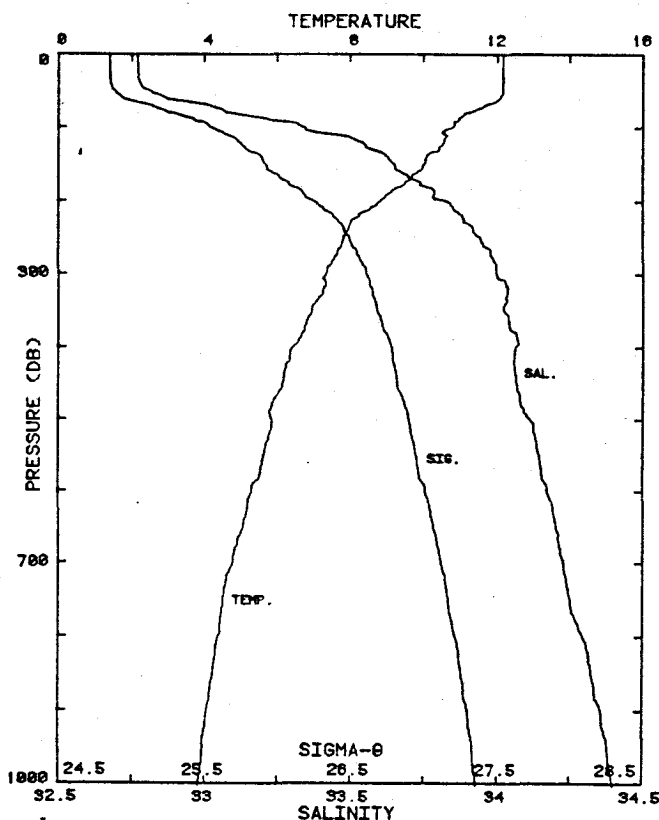
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.220	32.749	12.220	24.821	313.7	0.003
10	12.223	32.749	12.222	24.821	313.9	0.031
20	12.066	32.776	12.063	24.872	309.4	0.063
30	12.044	32.778	12.041	24.878	309.0	0.094
40	12.026	32.781	12.020	24.884	308.7	0.124
50	12.000	32.780	11.994	24.888	308.6	0.155
60	11.879	32.764	11.872	24.898	307.8	0.186
70	11.695	32.924	11.686	25.057	292.9	0.216
80	10.955	33.091	10.946	25.320	268.1	0.244
90	10.822	33.237	10.811	25.457	255.3	0.270
100	10.239	33.310	10.228	25.615	240.4	0.295
110	10.146	33.469	10.134	25.755	227.3	0.319
120	10.051	33.607	10.038	25.878	215.8	0.341
130	9.709	33.679	9.695	25.992	205.1	0.362
140	9.545	33.682	9.530	26.022	202.5	0.382
150	9.132	33.695	9.116	26.099	195.3	0.402
175	8.570	33.831	8.552	26.293	177.1	0.449
200	8.333	33.924	8.313	26.403	167.1	0.491
225	8.171	33.992	8.148	26.481	160.1	0.532
250	7.963	34.027	7.938	26.540	154.9	0.571
300	7.155	34.019	7.126	26.650	144.9	0.646
400	6.328	34.082	6.293	26.812	130.5	0.783
500	5.562	34.125	5.521	26.942	118.7	0.907
600	5.133	34.208	5.085	27.060	108.3	1.020
800	4.191	34.290	4.130	27.230	92.8	1.221
1000	3.766	34.390	3.692	27.355	82.1	1.395
1005	3.748	34.393	3.674	27.359	81.7	1.399

15 MIN GAP AT 647-649DB

STA NO 18 EUR7 LAT: 40 52.0 N LONG: 124 56.0 W
12 JAN 1983 1633 GMT PROBE 2561 DEPTH 2913M
64.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.096	32.779	12.095	24.869	309.2	0.003
10	12.101	32.779	12.100	24.868	309.5	0.031
20	12.104	32.779	12.101	24.867	309.8	0.062
30	12.105	32.775	12.101	24.864	310.4	0.093
40	12.110	32.777	12.105	24.865	310.5	0.124
50	12.112	32.778	12.105	24.866	310.7	0.155
60	12.113	32.779	12.106	24.867	310.8	0.186
70	12.075	32.813	12.066	24.900	307.9	0.217
80	11.293	32.968	11.283	25.164	282.9	0.247
90	10.505	33.157	10.495	25.450	255.8	0.273
100	10.428	33.358	10.417	25.620	239.9	0.298
110	10.161	33.438	10.148	25.728	229.8	0.322
120	10.168	33.560	10.154	25.822	221.1	0.344
130	9.917	33.641	9.903	25.928	211.3	0.366
140	9.772	33.698	9.756	25.997	204.9	0.387
150	9.547	33.737	9.531	26.065	198.6	0.407
175	9.052	33.802	9.034	26.196	186.5	0.455
200	8.683	33.859	8.662	26.298	177.2	0.500
225	8.187	33.915	8.164	26.419	166.0	0.543
250	7.927	33.942	7.903	26.478	160.7	0.584
300	7.418	33.997	7.389	26.596	150.1	0.661
400	6.596	34.065	6.560	26.763	135.2	0.804
500	5.876	34.098	5.833	26.882	124.7	0.933
600	5.197	34.157	5.148	27.012	112.8	1.052
800	4.519	34.283	4.457	27.190	97.3	1.264
1000	3.824	34.399	3.750	27.355	82.2	1.443
1005	3.814	34.401	3.740	27.358	81.9	1.447



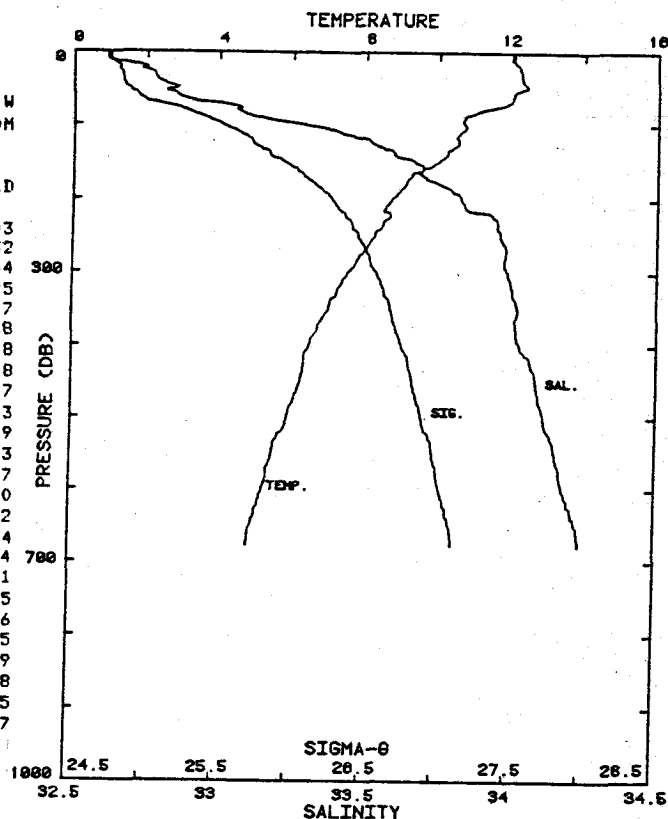


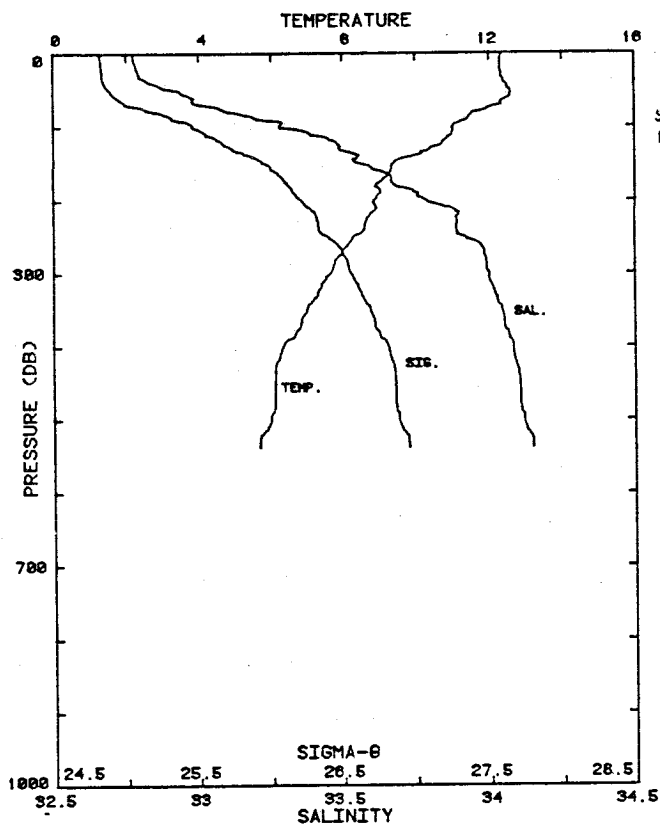
STA NO 19 EUR6 LAT: 40 52.0 N LONG:124 48.0 W
12 JAN 1983 1754 GMT PROBE 2561 DEPTH 1389H
53.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.153	32.770	12.153	24.850	311.0	0.003
10	12.150	32.770	12.149	24.851	311.1	0.031
20	12.152	32.771	12.149	24.852	311.2	0.062
30	12.155	32.773	12.151	24.853	311.4	0.093
40	12.160	32.779	12.155	24.857	311.3	0.124
50	12.154	32.811	12.148	24.883	309.0	0.156
60	12.077	32.869	12.070	24.942	303.6	0.186
70	11.692	33.012	11.683	25.125	286.4	0.216
80	11.195	33.084	11.185	25.272	272.7	0.244
90	10.935	33.234	10.924	25.435	257.4	0.270
100	10.773	33.339	10.761	25.545	247.1	0.295
110	10.586	33.435	10.573	25.653	237.1	0.319
120	10.546	33.536	10.532	25.739	229.2	0.343
130	10.411	33.573	10.396	25.791	224.4	0.365
140	10.081	33.626	10.065	25.889	215.3	0.387
150	10.028	33.649	10.011	25.916	212.9	0.409
175	9.502	33.739	9.482	26.074	198.3	0.461
200	8.845	33.824	8.824	26.246	182.2	0.508
225	8.127	33.887	8.104	26.405	167.3	0.552
250	7.818	33.942	7.794	26.494	159.1	0.593
300	7.329	33.996	7.300	26.608	149.0	0.669
400	6.438	34.065	6.402	26.784	133.2	0.811
500	5.832	34.110	5.789	26.897	123.2	0.940
600	5.300	34.173	5.251	27.013	112.9	1.059
800	4.387	34.294	4.326	27.212	94.9	1.266
1000	3.819	34.398	3.745	27.355	82.2	1.441
1003	3.811	34.401	3.736	27.358	81.9	1.444

STA NO 20 EUR5 LAT: 40 52.0 N LONG:124 40.0 W
12 JAN 1983 1917 GMT PROBE 2561 DEPTH 700H
42.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.058	32.615	12.058	24.748	320.6	0.003
10	12.048	32.618	12.046	24.753	320.4	0.032
20	12.220	32.746	12.217	24.820	314.3	0.064
30	12.273	32.778	12.269	24.834	313.2	0.095
40	12.306	32.795	12.301	24.842	312.7	0.127
50	12.347	32.855	12.341	24.881	309.3	0.158
60	12.024	32.855	12.017	24.942	303.7	0.188
70	11.925	32.956	11.916	25.039	294.7	0.218
80	11.149	33.061	11.139	25.262	273.6	0.247
90	10.678	33.134	10.668	25.402	260.4	0.273
100	10.704	33.286	10.692	25.516	249.9	0.299
110	10.593	33.404	10.580	25.627	239.5	0.323
120	10.516	33.502	10.502	25.718	231.2	0.347
130	10.420	33.547	10.404	25.769	226.5	0.370
140	10.215	33.596	10.199	25.843	219.7	0.392
150	9.972	33.666	9.955	25.938	210.8	0.414
175	9.127	33.718	9.109	26.118	194.0	0.464
200	8.714	33.828	8.693	26.269	180.0	0.511
225	8.674	33.938	8.651	26.362	171.6	0.555
250	8.246	33.965	8.221	26.449	163.7	0.596
300	7.519	33.991	7.490	26.577	152.0	0.675
400	6.477	34.033	6.442	26.754	136.0	0.819
500	5.902	34.117	5.859	26.895	123.6	0.948
600	5.266	34.185	5.217	27.026	111.6	1.065
677	4.868	34.244	4.814	27.119	103.2	1.147





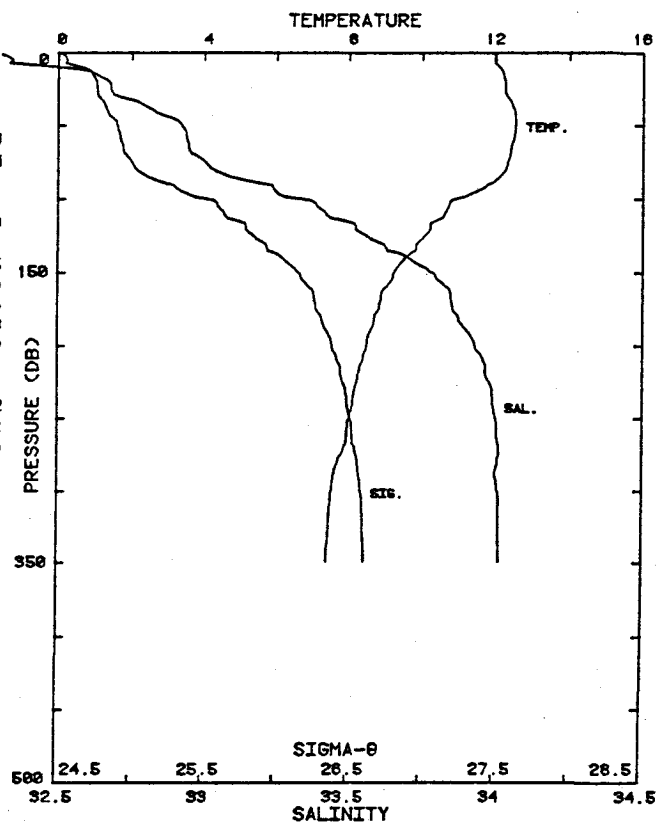
STATION 21 EUR 4

STA NO 21 EUR4 LAT: 40 52.0 N LONG: 124 33.9 W
 12 JAN 1983 2016 GMT PROBE 2561 DEPTH 546M
 33.7 KM FROM SHORE

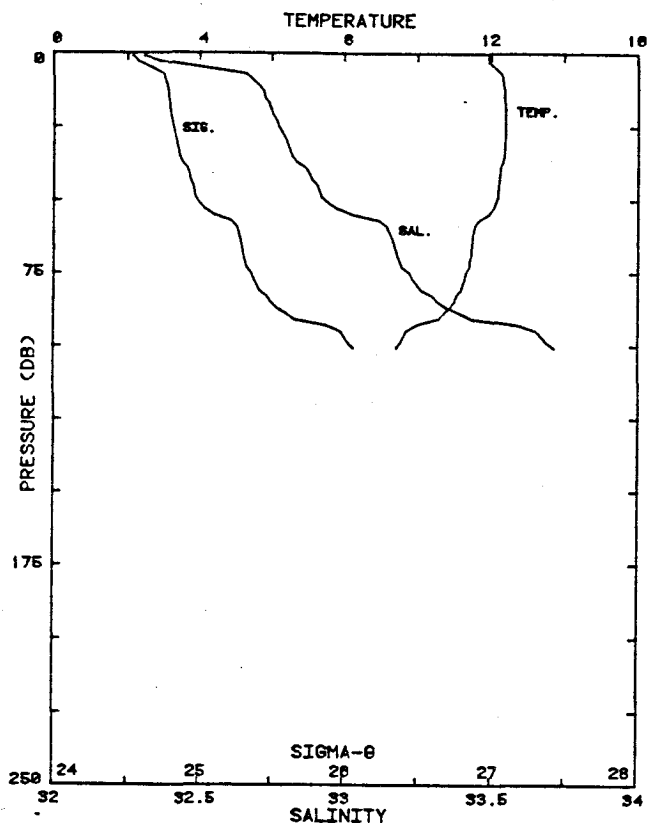
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.326	32.774	12.325	24.821	313.7	0.003
10	12.301	32.776	12.300	24.827	313.4	0.031
20	12.310	32.785	12.307	24.833	313.1	0.063
30	12.328	32.794	12.324	24.837	313.0	0.094
40	12.419	32.834	12.413	24.851	311.9	0.125
50	12.577	32.920	12.570	24.887	308.7	0.156
60	12.550	32.978	12.542	24.937	304.2	0.187
70	12.325	33.010	12.316	25.005	298.0	0.217
80	11.638	33.116	11.628	25.216	278.1	0.246
90	11.403	33.216	11.392	25.337	266.8	0.273
100	11.001	33.277	10.989	25.457	255.5	0.299
110	10.982	33.388	10.969	25.546	247.3	0.324
120	10.747	33.474	10.732	25.655	237.1	0.348
130	10.380	33.489	10.365	25.731	230.1	0.372
140	9.936	33.557	9.920	25.859	218.0	0.394
150	9.395	33.559	9.378	25.950	209.4	0.415
175	9.027	33.665	9.009	26.093	196.3	0.466
200	8.875	33.786	8.854	26.211	185.5	0.514
225	8.679	33.889	8.656	26.323	175.3	0.559
250	8.309	33.914	8.283	26.400	168.3	0.602
300	7.676	33.998	7.647	26.560	153.7	0.682
400	6.317	34.080	6.281	26.812	130.4	0.824
500	5.975	34.116	5.931	26.885	124.6	0.951
539	5.647	34.148	5.601	26.951	118.5	0.998

STA NO 22 EUR3 LAT: 40 52.0 N LONG: 124 27.9 W
 12 JAN 1983 2116 GMT PROBE 2561 DEPTH 358M
 25.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.960	32.312	11.960	24.533	341.2	0.003
10	12.076	32.502	12.074	24.658	329.5	0.034
20	12.233	32.671	12.230	24.759	320.1	0.066
30	12.294	32.703	12.290	24.773	319.0	0.098
40	12.489	32.827	12.484	24.831	313.8	0.130
50	12.513	32.923	12.507	24.901	307.4	0.161
60	12.468	32.940	12.460	24.924	305.5	0.191
70	12.383	32.965	12.374	24.959	302.3	0.222
80	12.257	33.030	12.247	25.034	295.4	0.252
90	11.843	33.207	11.832	25.249	275.2	0.280
100	10.980	33.323	10.968	25.496	251.8	0.307
110	10.623	33.418	10.610	25.633	238.9	0.331
120	10.215	33.523	10.201	25.785	224.6	0.354
130	9.889	33.608	9.874	25.907	213.2	0.376
140	9.552	33.703	9.536	26.037	201.0	0.397
150	9.241	33.783	9.225	26.150	190.5	0.417
175	8.825	33.852	8.806	26.271	179.3	0.462
200	8.482	33.929	8.461	26.384	168.9	0.506
225	8.233	33.978	8.210	26.460	162.1	0.547
250	8.011	34.001	7.986	26.512	157.6	0.587
300	7.547	34.009	7.518	26.587	151.1	0.664
349	7.415	34.015	7.381	26.611	149.6	0.738



STATION 22 EUR 3



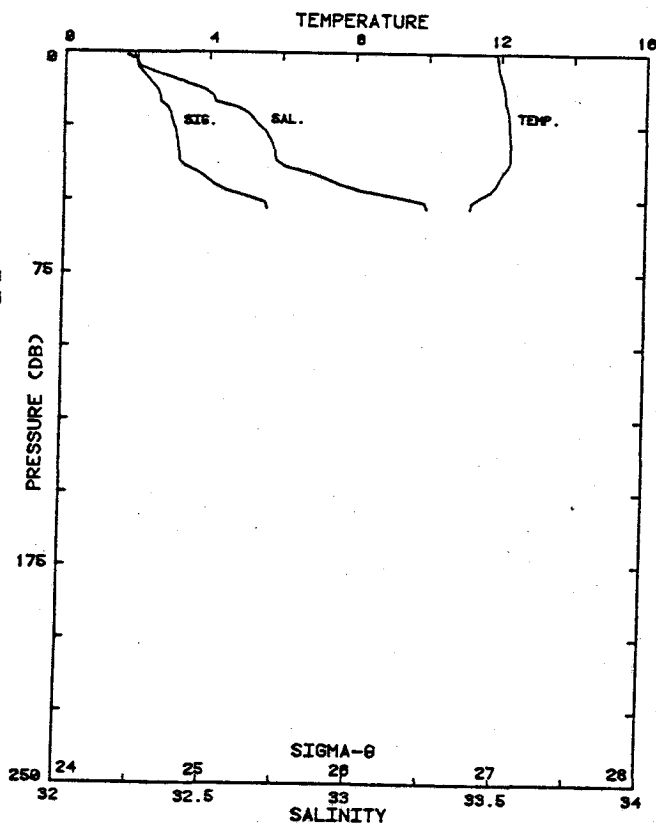
STATION 23 EUR 2

STA NO 23 EUR2 LAT: 40 51.9 N LONG:124 21.9 W
 12 JAN 1983 2210 GMT PROBE 2561 DEPTH 107M
 16.9 KM FROM SHORE

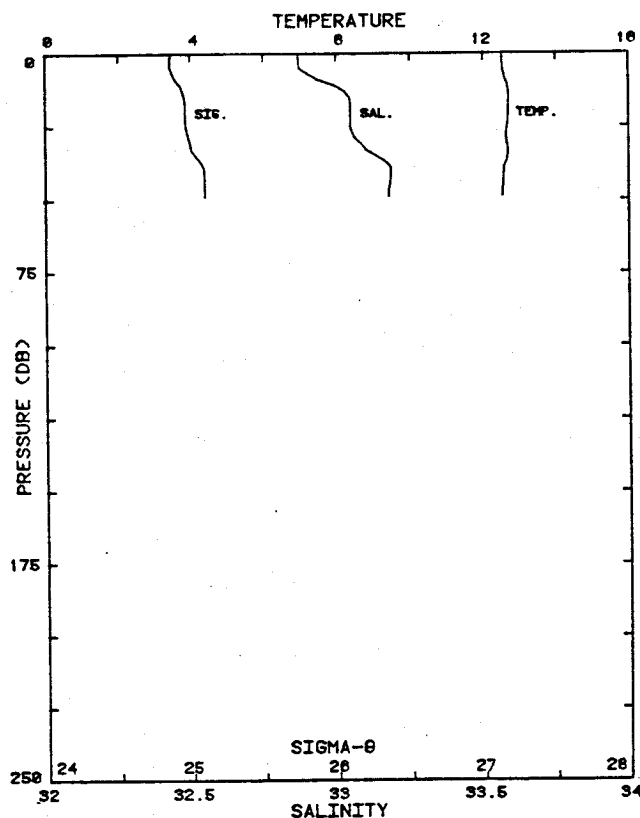
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.932	32.309	11.932	24.535	341.0	0.003
10	12.302	32.692	12.300	24.762	319.5	0.033
20	12.364	32.749	12.361	24.794	316.8	0.065
30	12.355	32.800	12.351	24.836	313.0	0.096
40	12.221	32.874	12.214	24.919	305.4	0.127
50	12.133	32.932	12.127	24.981	299.7	0.158
60	11.530	33.150	11.522	25.262	273.2	0.186
70	11.424	33.184	11.415	25.308	269.0	0.213
80	11.189	33.254	11.180	25.405	260.0	0.240
90	10.633	33.415	10.622	25.629	238.9	0.265
100	9.491	33.701	9.480	26.045	199.4	0.286
101	9.434	33.714	9.423	26.064	197.6	0.288

STA NO 24 EUR1 LAT: 40 52.0 N LONG:124 15.9 W
 12 JAN 1983 2259 GMT PROBE 2561 DEPTH 59M
 8.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.863	32.214	11.863	24.474	346.7	0.003
10	12.025	32.401	12.024	24.589	336.0	0.034
20	12.200	32.618	12.198	24.725	323.4	0.067
30	12.269	32.713	12.265	24.785	317.9	0.099
40	12.123	32.804	12.118	24.883	308.8	0.131
50	11.322	33.186	11.316	25.327	266.7	0.160
53	11.159	33.245	11.152	25.403	259.6	0.168



STATION 24 EUR 1



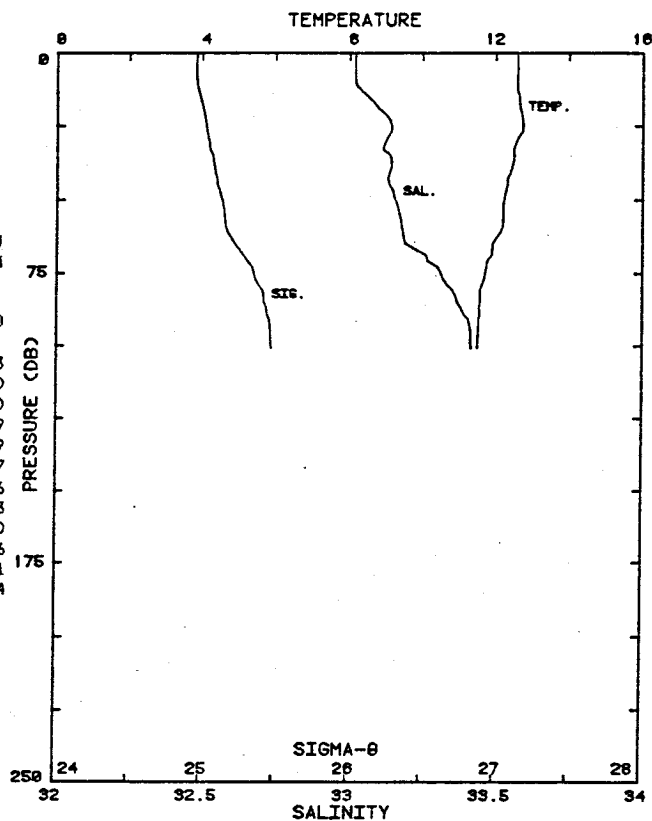
STATION 25 AR 1

STA NO 25 AR1 LAT: 38 57.0 N LONG:123 46.2 W
 13 JAN 1983 1035 GMT PROBE 2561 DEPTH 56M
 2.5 KM FROM SHORE

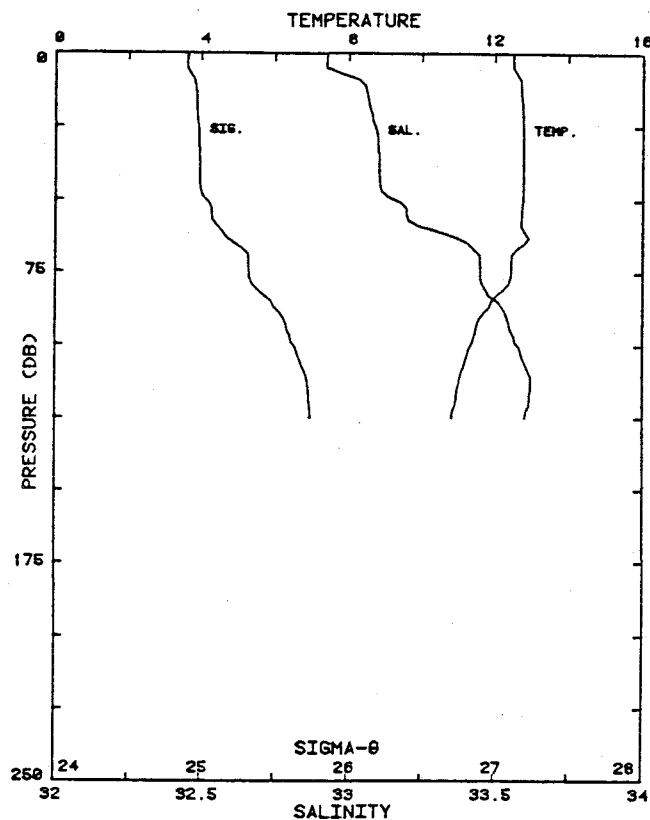
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.522	32.870	12.522	24.857	310.3	0.003
10	12.638	32.966	12.636	24.910	305.5	0.031
20	12.687	33.050	12.685	24.965	300.6	0.061
30	12.646	33.076	12.642	24.993	298.1	0.091
40	12.565	33.185	12.559	25.094	288.8	0.120
49	12.518	33.177	12.512	25.097	288.7	0.146

STA NO 26 AR2 LAT: 38 55.8 N LONG:123 49.3 W
 13 JAN 1983 1111 GMT PROBE 2561 DEPTH 107M
 7.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.583	33.019	12.583	24.961	300.4	0.003
10	12.584	33.020	12.583	24.962	300.5	0.030
20	12.690	33.110	12.687	25.011	296.2	0.060
30	12.576	33.125	12.572	25.045	293.2	0.089
40	12.416	33.140	12.410	25.088	289.4	0.119
50	12.233	33.156	12.226	25.135	285.1	0.147
60	12.170	33.181	12.162	25.167	282.3	0.176
70	11.839	33.266	11.830	25.295	270.3	0.203
80	11.605	33.344	11.595	25.399	260.7	0.230
90	11.563	33.400	11.552	25.450	256.1	0.256
100	11.525	33.418	11.513	25.471	254.3	0.281
101	11.524	33.418	11.512	25.472	254.3	0.284



STATION 26 AR 2

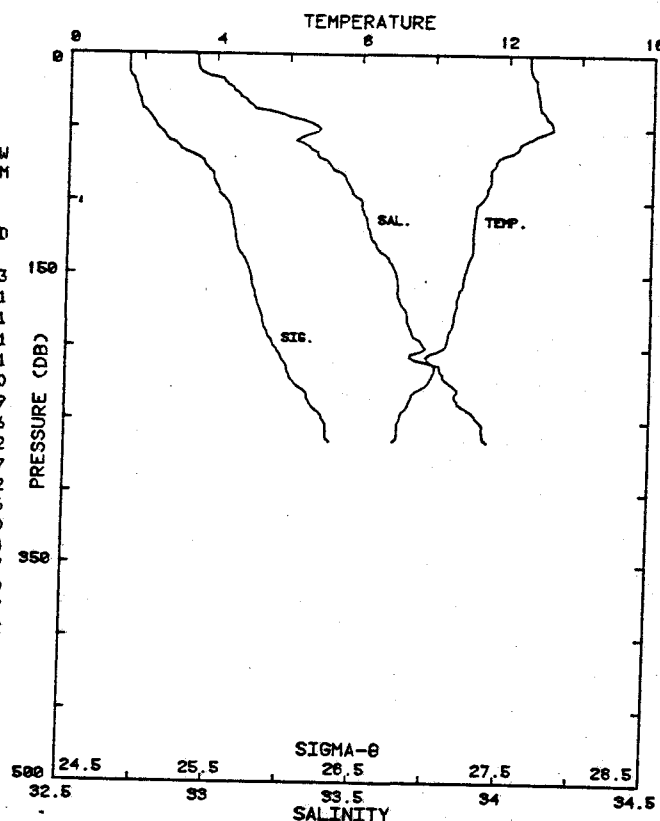


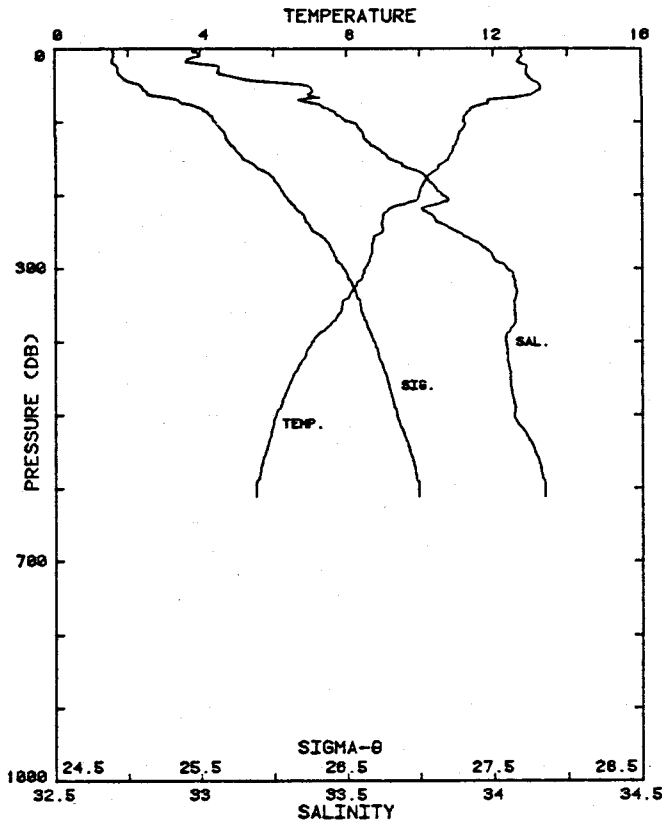
STA NO 27 AR3 LAT: 38 54.9 N LONG: 123 52.3 W
 13 JAN 1983 1147 GMT PROBE 2561 DEPTH 131M
 12.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.493	32.924	12.493	24.905	305.8	0.003
10	12.717	33.044	12.716	24.955	301.2	0.030
20	12.768	33.076	12.766	24.970	300.1	0.061
30	12.790	33.099	12.786	24.984	299.0	0.090
40	12.787	33.105	12.782	24.989	298.8	0.120
50	12.780	33.157	12.774	25.031	295.1	0.150
60	12.783	33.276	12.775	25.123	286.6	0.179
70	12.454	33.450	12.445	25.321	268.0	0.207
80	12.299	33.463	12.288	25.361	264.4	0.234
90	11.632	33.539	11.621	25.546	247.0	0.259
100	11.351	33.578	11.339	25.627	239.4	0.284
110	11.075	33.620	11.061	25.710	231.8	0.307
120	10.930	33.620	10.915	25.736	229.5	0.330
125	10.838	33.604	10.823	25.741	229.2	0.342

STA NO 28 AR4 LAT: 38 53.9 N LONG: 123 55.3 W
 13 JAN 1983 1223 GMT PROBE 2561 DEPTH 272M
 16.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.570	32.931	12.570	24.895	306.7	0.003
10	12.587	32.938	12.586	24.898	306.7	0.031
20	12.750	33.031	12.747	24.938	303.1	0.061
30	12.826	33.090	12.822	24.969	300.4	0.091
40	12.991	33.206	12.986	25.027	295.2	0.121
50	13.218	33.355	13.212	25.097	288.9	0.150
60	12.416	33.288	12.408	25.203	278.9	0.179
70	11.813	33.354	11.805	25.368	263.4	0.206
80	11.540	33.420	11.530	25.470	254.0	0.232
90	11.496	33.464	11.484	25.512	250.2	0.257
100	11.310	33.505	11.298	25.578	244.1	0.282
110	11.141	33.518	11.127	25.619	240.4	0.306
120	11.101	33.534	11.086	25.639	238.7	0.330
130	11.103	33.556	11.087	25.656	237.4	0.354
140	11.003	33.602	10.986	25.710	232.5	0.377
150	10.882	33.627	10.864	25.751	228.8	0.400
175	10.633	33.661	10.612	25.822	222.6	0.457
200	10.362	33.726	10.339	25.920	213.8	0.512
225	9.923	33.814	9.897	26.063	200.5	0.563
250	9.157	33.911	9.130	26.265	181.6	0.611
265	9.017	33.944	8.988	26.314	177.2	0.638



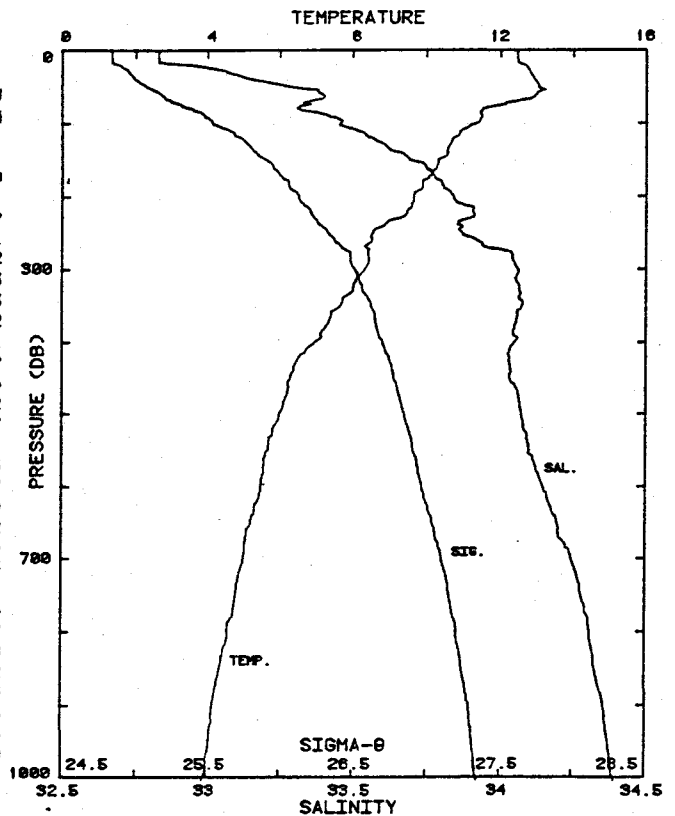


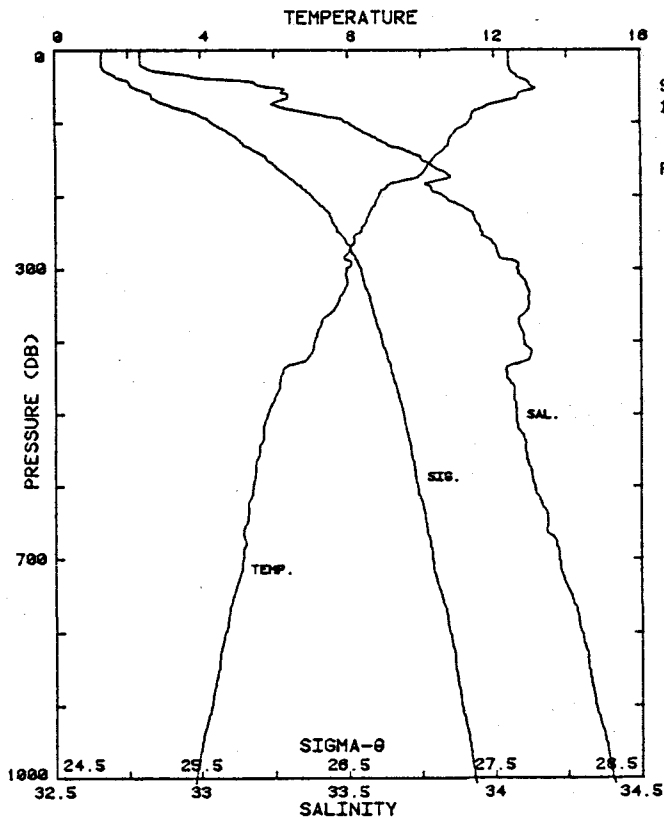
STA NO 29 AR5 LAT: 38 53.0 N LONG:123 59.1 W
13 JAN 1983 1307 GMT PROBE 2561 DEPTH 619M
22.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.743	32.976	12.743	24.896	306.6	0.003
10	12.785	32.996	12.784	24.904	306.1	0.031
20	12.725	32.974	12.723	24.899	306.8	0.061
30	12.902	33.062	12.898	24.933	303.9	0.092
40	12.985	33.126	12.980	24.966	301.0	0.122
50	13.264	33.351	13.257	25.084	290.0	0.152
60	13.127	33.379	13.119	25.134	285.6	0.181
70	12.004	33.351	11.995	25.330	267.1	0.208
80	11.472	33.416	11.463	25.479	253.1	0.234
90	11.244	33.464	11.233	25.558	245.7	0.259
100	11.184	33.503	11.172	25.599	242.1	0.284
110	11.156	33.541	11.143	25.635	239.0	0.308
120	11.036	33.556	11.022	25.668	236.0	0.331
130	10.970	33.577	10.954	25.696	233.6	0.355
140	10.881	33.615	10.864	25.741	229.5	0.378
150	10.766	33.641	10.748	25.783	225.8	0.401
175	10.202	33.765	10.182	25.977	207.7	0.455
200	9.957	33.824	9.934	26.065	199.8	0.506
225	9.033	33.774	9.009	26.178	189.2	0.555
250	8.970	33.874	8.943	26.266	181.3	0.601
300	8.486	34.044	8.454	26.475	162.3	0.686
400	7.040	34.041	7.002	26.684	143.1	0.838
500	6.034	34.069	5.990	26.840	128.9	0.974
600	5.500	34.174	5.449	26.989	115.4	1.095
611	5.497	34.174	5.446	26.990	115.6	1.108

STA NO 30 AR6 LAT: 38 52.0 N LONG:124 2.3 W
13 JAN 1983 1402 GMT PROBE 2561 DEPTH 1447M
27.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	12.461	32.828	12.461	24.837	312.2	0.009
10	12.462	32.828	12.461	24.837	312.5	0.031
20	12.600	32.912	12.597	24.875	309.1	0.062
30	12.809	33.064	12.805	24.952	302.0	0.093
40	12.923	33.146	12.918	24.994	298.3	0.123
50	13.051	33.279	13.044	25.072	291.2	0.152
60	12.993	33.391	12.985	25.170	282.1	0.181
70	12.525	33.362	12.516	25.239	275.7	0.209
80	11.590	33.312	11.580	25.377	262.8	0.236
90	11.489	33.417	11.477	25.477	253.5	0.262
100	11.371	33.459	11.359	25.532	248.5	0.287
110	10.964	33.513	10.951	25.647	237.8	0.311
120	10.746	33.560	10.732	25.722	230.8	0.335
130	10.628	33.609	10.613	25.781	225.4	0.357
140	10.562	33.654	10.546	25.828	221.2	0.380
150	10.332	33.692	10.315	25.898	214.7	0.402
175	10.043	33.779	10.023	26.015	204.0	0.454
200	9.652	33.839	9.630	26.128	193.7	0.503
225	9.453	33.910	9.428	26.216	185.9	0.551
250	8.542	33.869	8.517	26.329	175.2	0.596
300	8.326	34.060	8.295	26.512	158.7	0.679
400	6.972	34.050	6.934	26.701	141.5	0.828
500	5.992	34.074	5.949	26.849	128.0	0.962
600	5.481	34.148	5.431	26.971	117.1	1.085
800	4.566	34.310	4.504	27.206	95.9	1.296
1000	3.901	34.392	3.826	27.342	83.6	1.474
1005	3.872	34.396	3.797	27.349	83.0	1.478





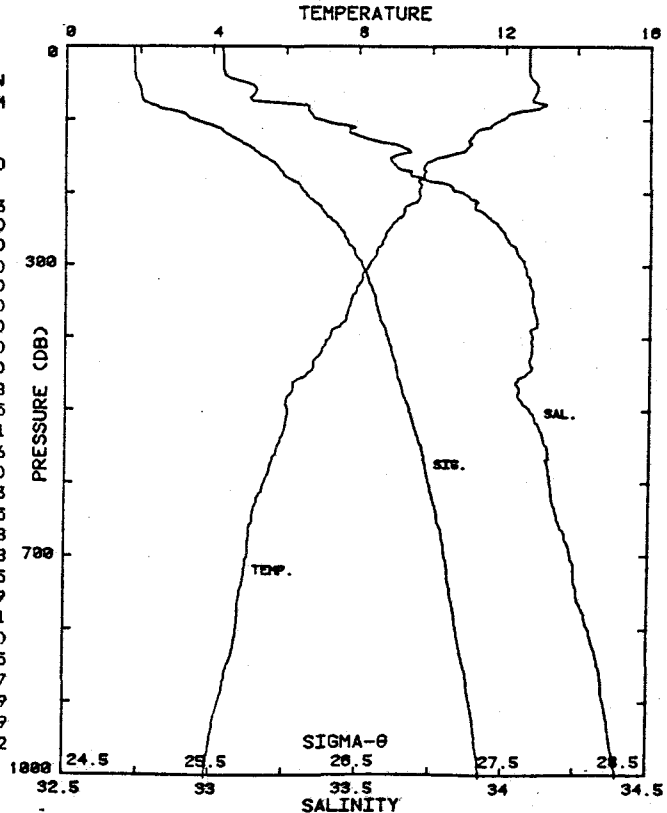
STA NO 31 AR7 LAT: 38 50.2 N LONG:124 8.2 W
 13 JAN 1983 1523 GMT PROBE 2561 DEPTH 2177M
 36.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	12.409	32.792	12.409	24.819	314.0	0.009
10	12.416	32.793	12.414	24.818	314.2	0.031
20	12.414	32.793	12.412	24.819	314.4	0.063
30	12.473	32.843	12.469	24.847	312.1	0.094
40	12.745	33.034	12.740	24.942	303.2	0.125
50	13.022	33.210	13.015	25.024	295.7	0.155
60	12.692	33.283	12.684	25.146	284.4	0.184
70	12.403	33.271	12.394	25.192	280.2	0.212
80	11.708	33.278	11.698	25.329	267.3	0.239
90	11.378	33.407	11.366	25.490	252.2	0.265
100	11.295	33.496	11.283	25.574	244.5	0.290
110	10.993	33.537	10.980	25.660	236.5	0.314
120	10.778	33.585	10.764	25.736	229.5	0.338
130	10.715	33.633	10.699	25.785	225.1	0.360
140	10.532	33.706	10.516	25.873	216.9	0.382
150	10.309	33.750	10.292	25.947	210.1	0.404
175	9.896	33.849	9.876	26.094	196.5	0.455
200	8.821	33.823	8.800	26.249	181.9	0.502
225	8.554	33.926	8.531	26.371	170.7	0.546
250	8.308	33.955	8.282	26.432	165.3	0.588
300	7.926	34.074	7.896	26.583	151.7	0.667
400	7.063	34.101	7.025	26.728	139.0	0.812
500	5.796	34.074	5.754	26.873	125.4	0.944
600	5.394	34.138	5.344	26.973	116.8	1.065
800	4.630	34.295	4.567	27.187	97.8	1.280
1000	3.840	34.401	3.766	27.356	82.2	1.460
1007	3.822	34.409	3.747	27.364	81.5	1.466

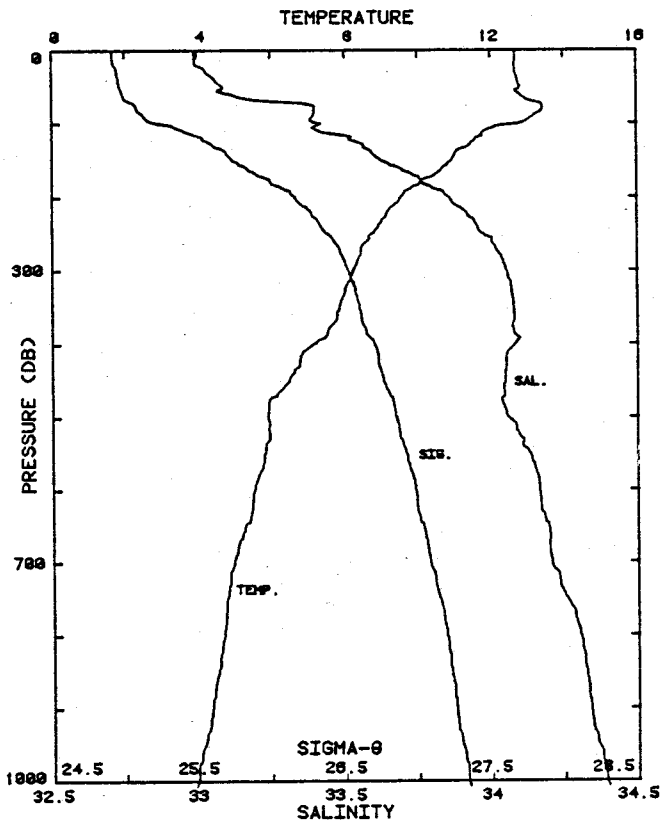
STATION 31 AR 7

STA NO 32 COC9 LAT: 38 24.0 N LONG:123 49.2 W
 13 JAN 1983 1852 GMT PROBE 2561 DEPTH 1698M
 46.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.668	33.030	12.667	24.953	301.2	0.003
10	12.645	33.032	12.644	24.959	300.8	0.030
20	12.649	33.033	12.646	24.959	301.1	0.060
30	12.641	33.033	12.637	24.961	301.2	0.090
40	12.661	33.040	12.656	24.963	301.2	0.120
50	12.831	33.110	12.825	24.984	299.5	0.150
60	12.879	33.147	12.871	25.004	297.9	0.180
70	12.786	33.129	12.776	25.009	297.7	0.210
80	13.117	33.302	13.106	25.077	291.5	0.240
90	12.300	33.329	12.289	25.257	274.6	0.268
100	11.906	33.357	11.893	25.354	265.6	0.295
110	11.588	33.475	11.574	25.504	251.4	0.321
120	11.135	33.479	11.121	25.590	243.4	0.346
130	10.995	33.564	10.979	25.682	234.9	0.370
140	10.935	33.662	10.918	25.769	226.9	0.393
150	10.399	33.623	10.381	25.832	220.9	0.415
175	9.766	33.674	9.746	25.981	207.2	0.468
200	9.655	33.850	9.633	26.136	193.0	0.518
225	9.242	33.909	9.217	26.250	182.5	0.565
250	8.822	33.983	8.795	26.375	171.0	0.609
300	8.280	34.066	8.250	26.523	157.6	0.691
400	7.223	34.097	7.185	26.703	141.5	0.840
500	6.065	34.086	6.021	26.850	128.0	0.975
600	5.453	34.159	5.403	26.983	115.9	1.097
800	4.732	34.301	4.668	27.180	98.6	1.309
1000	3.887	34.397	3.812	27.348	83.0	1.489
1003	3.883	34.397	3.808	27.348	83.0	1.492



STATION 32 COC 9



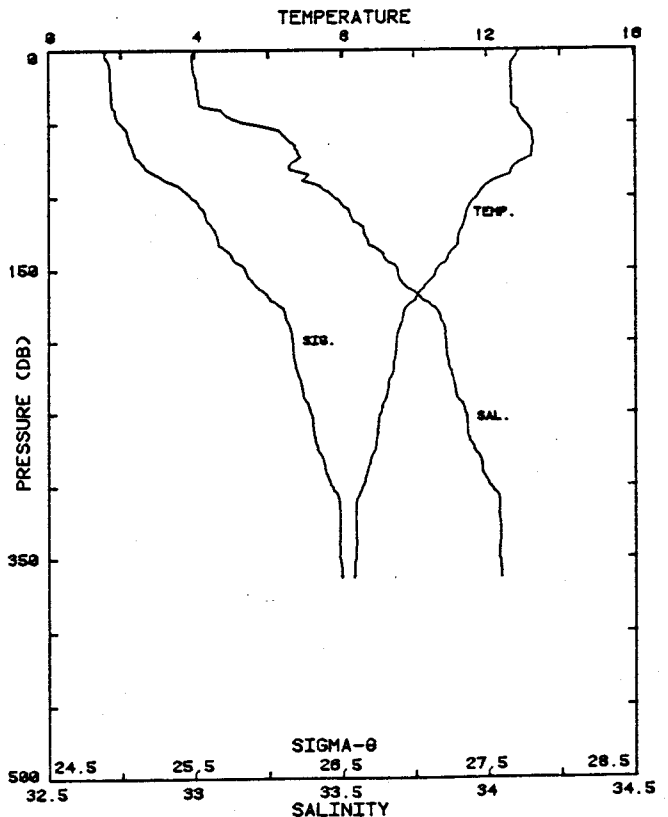
STATION 33 COC 8

STA NO 33 COC8 LAT: 38 27.2 N LONG:123 44.4 W
13 JAN 1983 2007 GMT PROBE 2561 DEPTH 1188M
36.8 KM FROM SHORE

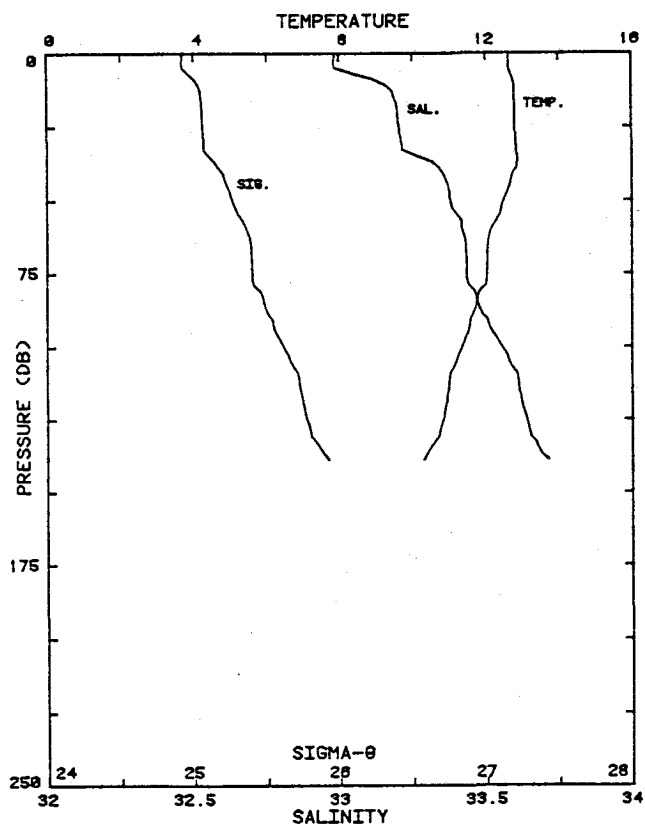
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.693	32.988	12.693	24.916	304.7	0.003
10	12.686	32.992	12.685	24.920	304.5	0.030
20	12.662	32.996	12.659	24.929	304.0	0.061
30	12.691	33.031	12.687	24.950	302.2	0.091
40	12.749	33.061	12.744	24.962	301.4	0.121
50	12.815	33.087	12.808	24.969	300.9	0.151
60	12.793	33.103	12.785	24.987	299.5	0.182
70	13.095	33.224	13.086	25.021	296.6	0.211
80	13.446	33.399	13.435	25.086	290.8	0.241
90	13.185	33.392	13.172	25.133	286.5	0.270
100	12.829	33.406	12.815	25.215	278.9	0.298
110	11.871	33.405	11.857	25.398	261.6	0.325
120	11.622	33.518	11.607	25.532	249.1	0.350
130	11.412	33.565	11.396	25.607	242.1	0.375
140	11.036	33.593	11.019	25.697	233.7	0.399
150	10.934	33.622	10.916	25.738	230.1	0.422
175	10.245	33.757	10.225	25.963	209.0	0.477
200	9.542	33.853	9.520	26.157	190.9	0.527
225	9.126	33.920	9.102	26.277	179.9	0.573
250	8.750	33.971	8.723	26.376	170.8	0.617
300	8.226	34.052	8.195	26.521	157.8	0.698
400	7.163	34.083	7.125	26.701	141.7	0.849
500	5.891	34.056	5.848	26.847	128.0	0.984
600	5.529	34.165	5.478	26.979	116.4	1.107
800	4.682	34.303	4.618	27.188	97.8	1.321
1000	3.961	34.393	3.886	27.337	84.2	1.503
1007	3.922	34.398	3.847	27.345	83.4	1.509

STA NO 34 COC7 LAT: 38 30.0 N LONG:123 39.0 W
13 JAN 1983 2120 GMT PROBE 2561 DEPTH 371M
27.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.854	33.001	12.854	24.894	306.8	0.003
10	12.668	32.997	12.667	24.927	303.8	0.031
20	12.677	33.008	12.674	24.935	303.4	0.061
30	12.679	33.016	12.675	24.940	303.1	0.091
40	12.785	33.064	12.780	24.957	301.8	0.122
50	13.047	33.186	13.041	25.000	298.0	0.152
60	13.254	33.313	13.245	25.058	292.8	0.181
70	13.228	33.352	13.218	25.093	289.8	0.210
80	12.728	33.323	12.718	25.170	282.7	0.239
90	12.117	33.383	12.105	25.334	267.2	0.266
100	11.728	33.474	11.716	25.477	253.8	0.292
110	11.458	33.526	11.445	25.568	245.4	0.317
120	11.347	33.567	11.332	25.620	240.6	0.342
130	11.202	33.590	11.186	25.665	236.6	0.365
140	10.942	33.645	10.925	25.754	228.3	0.389
150	10.618	33.693	10.601	25.848	219.5	0.411
175	9.825	33.809	9.805	26.075	198.3	0.464
200	9.499	33.859	9.476	26.168	189.8	0.512
225	9.352	33.883	9.327	26.212	186.2	0.559
250	9.067	33.929	9.040	26.294	178.8	0.605
300	8.582	34.012	8.551	26.436	166.1	0.692
363	8.342	34.050	8.305	26.502	160.8	0.794



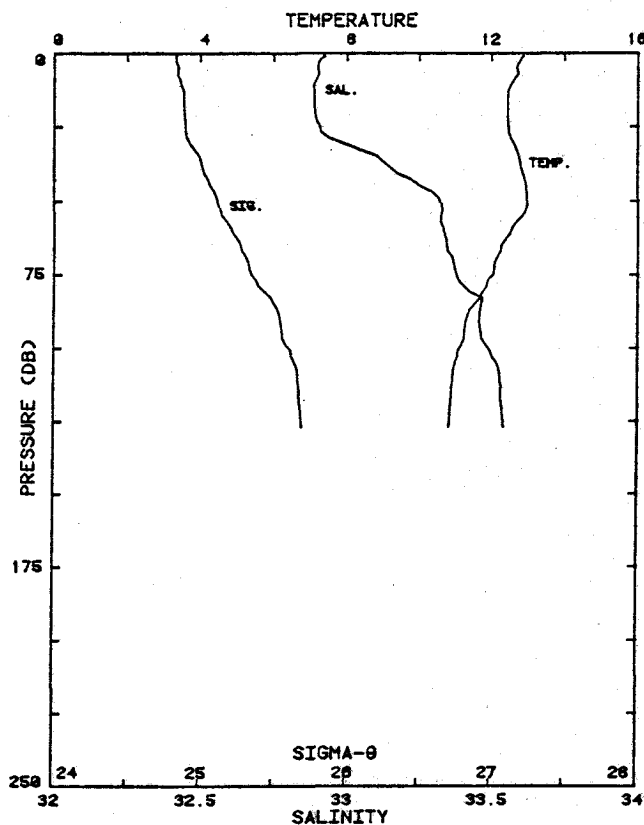
STATION 34 COC 7



STATION 35 COC 6

STA NO 35 COC6 LAT: 38 32.7 N LONG:123 36.2 W
 13 JAN 1983 2213 GMT PROBE 2561 DEPTH 139M
 21.2 KM FROM SHORE

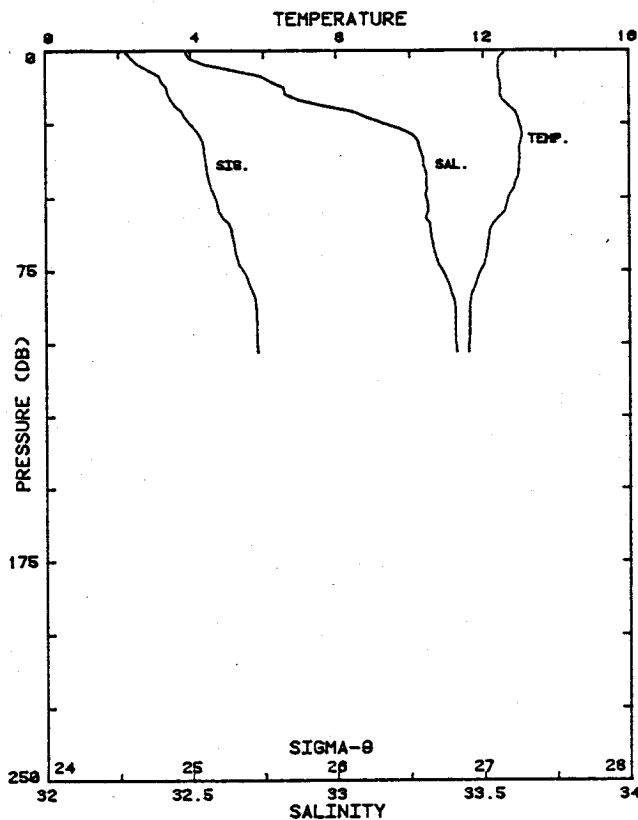
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.640	32.985	12.639	24.924	304.0	0.003
10	12.766	33.140	12.764	25.019	295.1	0.030
20	12.801	33.200	12.798	25.059	291.6	0.059
30	12.817	33.211	12.813	25.064	291.4	0.089
40	12.777	33.348	12.771	25.178	280.8	0.117
50	12.490	33.378	12.483	25.258	273.5	0.145
60	12.145	33.420	12.137	25.356	264.3	0.172
70	12.020	33.432	12.011	25.390	261.4	0.198
80	11.901	33.449	11.891	25.426	258.2	0.224
90	11.595	33.496	11.584	25.519	249.6	0.250
100	11.330	33.552	11.318	25.611	241.0	0.274
110	10.995	33.607	10.982	25.715	231.3	0.298
120	10.890	33.623	10.876	25.746	228.6	0.321
130	10.711	33.650	10.695	25.798	223.8	0.343
139	10.285	33.710	10.269	25.919	212.4	0.363



STATION 36 COC 5

STA NO 36 COC5 LAT: 38 34.7 N LONG:123 33.3 W
 13 JAN 1983 2249 GMT PROBE 2561 DEPTH 134M
 1.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.859	32.920	12.859	24.831	312.8	0.00
10	12.568	32.889	12.566	24.864	309.9	0.03
20	12.438	32.890	12.435	24.890	307.7	0.06
30	12.588	32.966	12.584	24.919	305.1	0.09
40	12.853	33.164	12.847	25.021	295.7	0.12
50	12.980	33.321	12.974	25.118	286.8	0.15
60	12.537	33.335	12.529	25.215	277.8	0.18
70	12.116	33.366	12.107	25.320	268.0	0.20
80	11.802	33.416	11.792	25.418	258.9	0.23
90	11.301	33.458	11.290	25.544	247.2	0.25
100	11.107	33.488	11.095	25.602	241.8	0.28
110	10.920	33.529	10.907	25.667	235.8	0.30
120	10.860	33.536	10.846	25.683	234.5	0.33
127	10.827	33.542	10.812	25.694	233.6	0.34

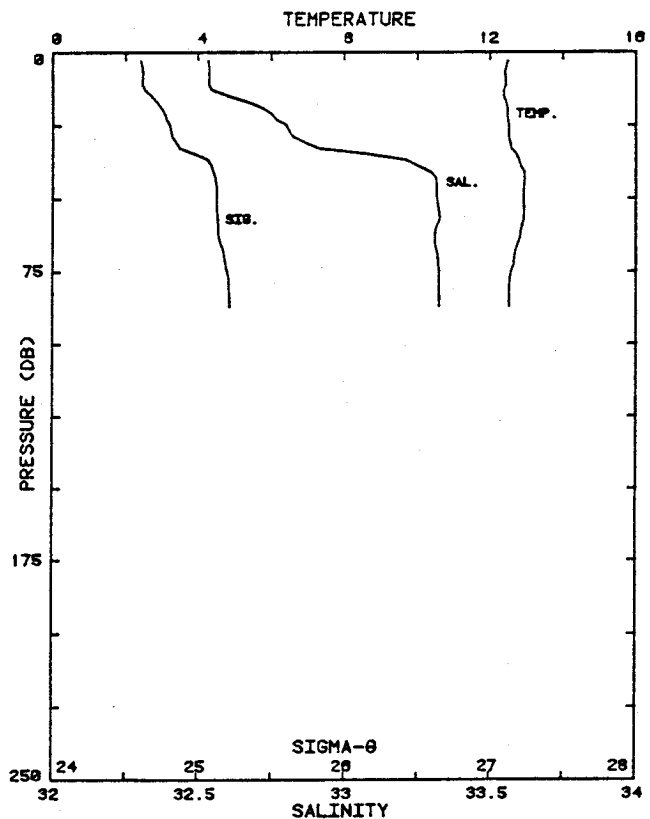


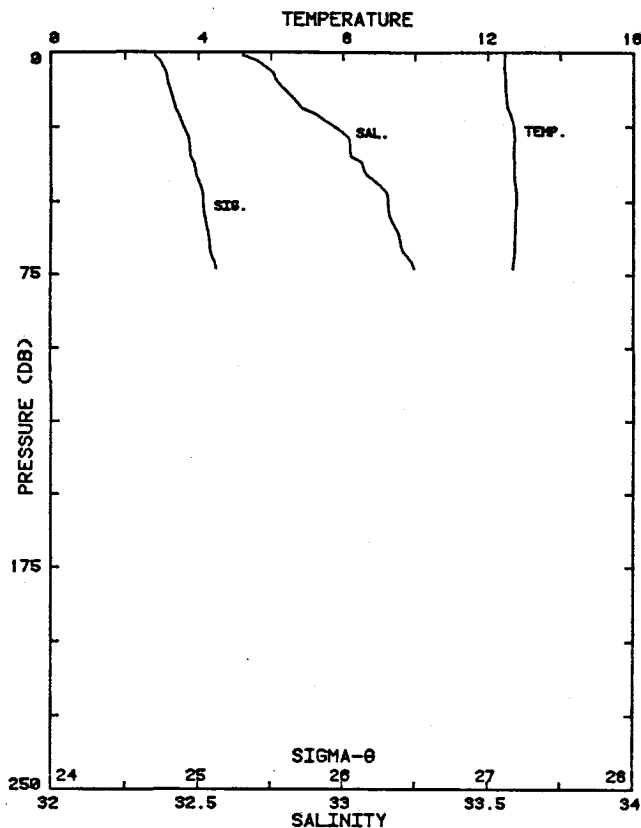
STA NO 37 COC4 LAT: 38 36.2 N LONG:123 30.7 W
 13 JAN 1983 2323 GMT PROBE 2561 DEPTH 111M
 11.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.542	32.481	12.542	24.553	339.3	0.003
10	12.431	32.759	12.429	24.790	316.9	0.033
20	12.784	33.005	12.782	24.911	305.6	0.064
30	13.036	33.270	13.032	25.067	291.1	0.094
40	12.962	33.300	12.957	25.105	287.8	0.123
50	12.682	33.306	12.675	25.165	282.3	0.151
60	12.211	33.318	12.204	25.265	273.0	0.179
70	12.059	33.337	12.050	25.309	269.1	0.206
80	11.760	33.382	11.750	25.400	260.6	0.233
90	11.606	33.404	11.595	25.445	256.6	0.259
100	11.591	33.406	11.579	25.450	256.4	0.284
103	11.575	33.408	11.562	25.455	256.0	0.292

STA NO 38 COC3 LAT: 38 37.5 N LONG:123 28.9 W
 13 JAN 1983 2354 GMT PROBE 2561 DEPTH 95M
 7.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	12.490	32.533	12.490	24.603	334.6	0.010
10	12.439	32.537	12.438	24.616	333.5	0.033
20	12.484	32.733	12.482	24.759	320.1	0.066
30	12.542	32.845	12.538	24.835	313.2	0.098
40	12.900	33.273	12.895	25.096	288.6	0.128
50	12.925	33.318	12.918	25.126	286.0	0.156
60	12.870	33.314	12.862	25.135	285.4	0.185
70	12.673	33.318	12.664	25.177	281.7	0.213
80	12.531	33.323	12.520	25.208	278.9	0.241
87	12.510	33.324	12.499	25.213	278.7	0.261





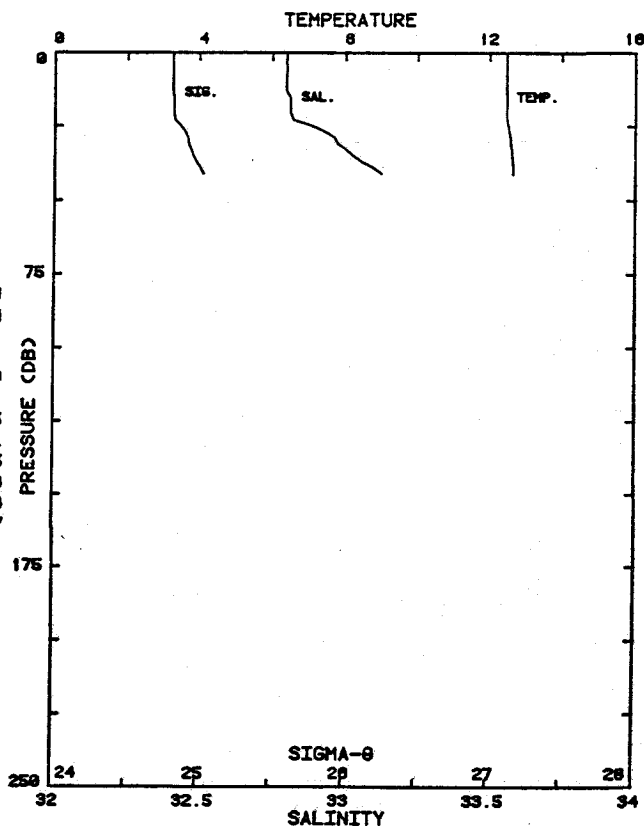
STATION 39 COC 2

STA NO 39 COC2 LAT: 38 38.9 N LONG:123 26.9 W
 14 JAN 1983 0021 GMT PROBE 2561 DEPTH 76M
 3.5 KM FROM SHORE

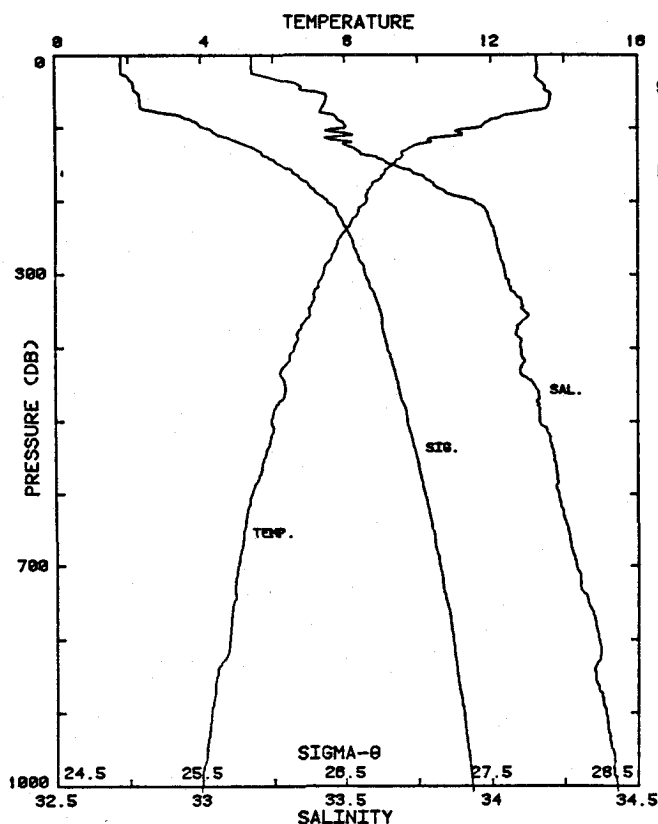
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.467	32.651	12.466	24.699	325.3	0.003
10	12.476	32.772	12.474	24.791	316.8	0.032
20	12.586	32.882	12.584	24.855	311.0	0.063
30	12.729	33.023	12.725	24.936	303.5	0.094
40	12.719	33.076	12.714	24.980	299.6	0.124
50	12.780	33.156	12.774	25.030	295.2	0.154
60	12.744	33.187	12.736	25.061	292.4	0.183
70	12.714	33.231	12.705	25.101	288.9	0.213
73	12.685	33.247	12.675	25.119	287.3	0.221

STA NO 40 COC1 LAT: 38 39.8 N LONG:123 25.5 W
 14 JAN 1983 0047 GMT PROBE 2561 DEPTH 45M
 0.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.468	32.797	12.468	24.812	314.6	0.003
10	12.468	32.796	12.467	24.811	314.9	0.031
20	12.471	32.813	12.469	24.823	314.0	0.063
30	12.594	32.969	12.590	24.921	305.0	0.094
40	12.662	33.109	12.657	25.016	296.2	0.124
41	12.666	33.124	12.661	25.027	295.2	0.127



STATION 40 COC 1



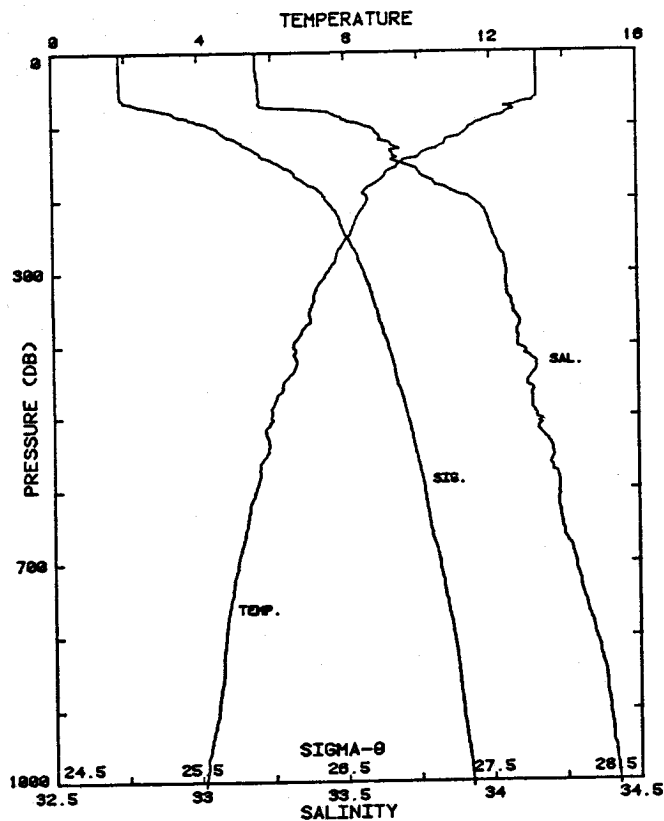
STATION 41 HM 10

STA NO 41 HM10 LAT: 37 17.2 N LONG:123 21.4 W
 14 JAN 1983 0821 GMT PROBE 2561 DEPTH 2099H
 82.8 KM FROM SHORE

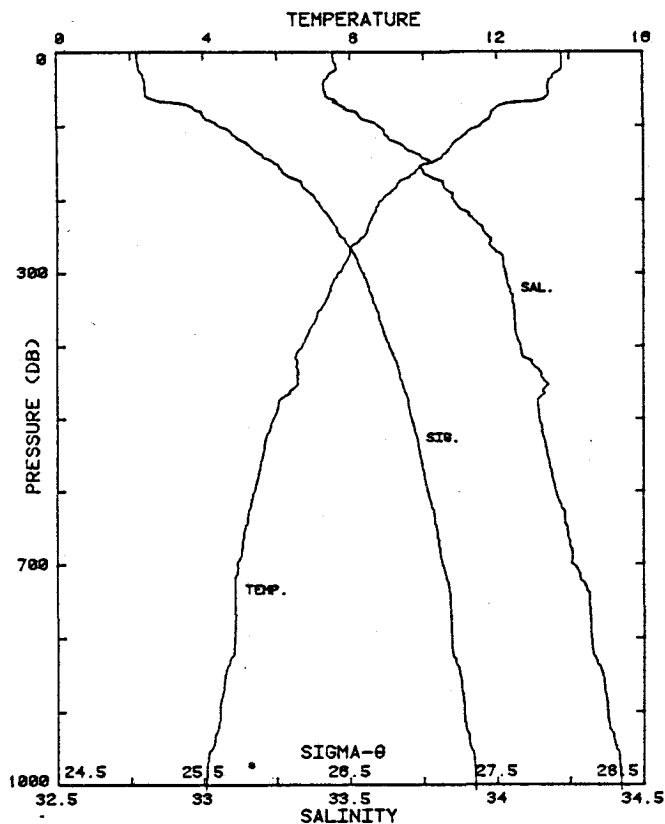
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.257	33.176	13.257	24.949	301.5	0.003
10	13.261	33.176	13.260	24.949	301.8	0.030
20	13.262	33.176	13.259	24.949	302.1	0.060
30	13.226	33.227	13.222	24.996	297.9	0.090
40	13.441	33.331	13.435	25.033	294.6	0.120
50	13.542	33.377	13.535	25.048	293.5	0.150
60	13.627	33.437	13.619	25.078	291.0	0.179
70	13.567	33.426	13.557	25.082	290.8	0.208
80	12.774	33.423	12.764	25.238	276.2	0.236
90	11.974	33.479	11.962	25.435	257.6	0.263
100	11.658	33.503	11.645	25.513	250.4	0.288
110	11.203	33.518	11.190	25.608	241.5	0.313
120	10.367	33.513	10.353	25.752	227.9	0.336
130	9.738	33.536	9.724	25.876	216.1	0.358
140	9.585	33.593	9.569	25.946	209.7	0.380
150	9.346	33.651	9.330	26.030	201.8	0.400
175	8.806	33.796	8.788	26.229	183.2	0.448
200	8.601	33.939	8.581	26.374	170.0	0.492
225	8.224	33.992	8.202	26.473	160.9	0.534
250	7.872	34.017	7.848	26.545	154.4	0.573
300	7.393	34.047	7.364	26.639	146.1	0.648
400	6.586	34.100	6.550	26.792	132.5	0.786
500	5.939	34.165	5.896	26.928	120.5	0.912
600	5.394	34.230	5.344	27.046	109.9	1.028
800	4.739	34.365	4.675	27.231	93.9	1.231
1000	3.967	34.429	3.892	27.365	81.6	1.406
1007	3.958	34.431	3.882	27.368	81.4	1.411

STA NO 42 HM9 LAT: 37 18.0 N LONG:123 15.4 W
 14 JAN 1983 0935 GMT PROBE 2561 DEPTH 1321H
 73.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.270	33.197	13.269	24.963	300.2	0.003
10	13.271	33.197	13.270	24.963	300.4	0.030
20	13.273	33.198	13.271	24.964	300.7	0.060
30	13.274	33.200	13.270	24.965	300.8	0.090
40	13.282	33.204	13.276	24.968	300.9	0.120
50	13.287	33.207	13.280	24.969	301.0	0.150
60	13.278	33.208	13.269	24.972	301.0	0.180
70	12.884	33.207	12.874	25.049	293.9	0.210
80	12.581	33.431	12.571	25.282	272.0	0.239
90	12.006	33.491	11.995	25.439	257.2	0.265
100	11.535	33.565	11.522	25.584	243.6	0.290
110	11.299	33.609	11.285	25.661	236.5	0.314
120	10.776	33.624	10.762	25.766	226.6	0.337
130	10.534	33.680	10.519	25.853	218.5	0.360
140	10.068	33.666	10.052	25.922	212.1	0.381
150	9.536	33.684	9.519	26.025	202.4	0.402
175	8.935	33.802	8.916	26.214	184.8	0.450
200	8.620	33.933	8.599	26.366	170.7	0.494
225	8.316	33.989	8.293	26.457	162.5	0.536
250	8.114	34.010	8.088	26.504	158.4	0.576
300	7.495	34.054	7.466	26.629	147.0	0.652
400	6.551	34.088	6.515	26.787	133.0	0.792
500	5.935	34.153	5.892	26.919	121.3	0.919
600	5.502	34.229	5.452	27.032	111.4	1.035
800	4.658	34.351	4.595	27.228	94.0	1.241
1000	4.094	34.428	4.018	27.351	83.3	1.418
1007	4.082	34.429	4.005	27.353	83.1	1.424



STATION 42 HM 9



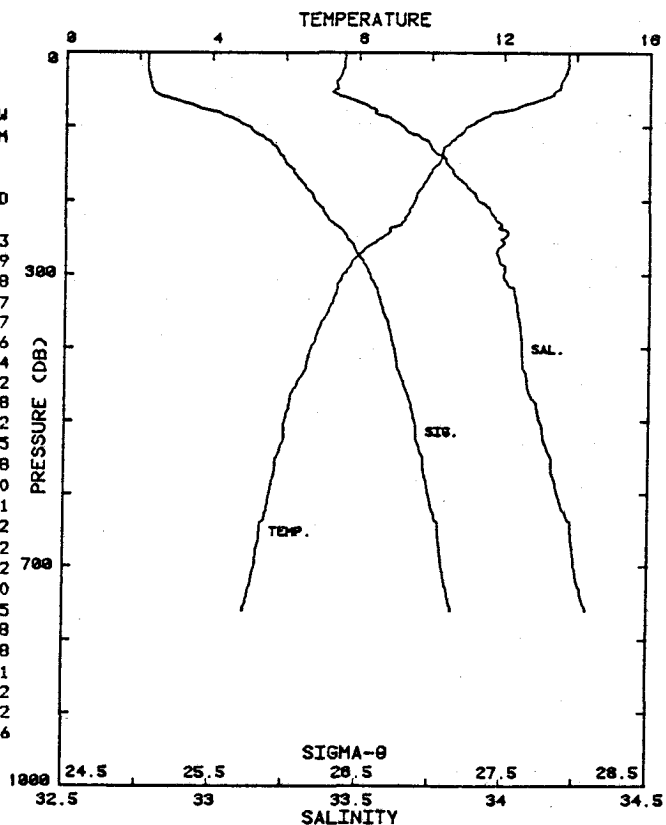
STATION 43 HM 8

STA NO 43 HM8 LAT: 37 18.8 N LONG:123 9.2 W
 14 JAN 1983 1048 GMT PROBE 2561 DEPTH 1060M
 64.6 KM FROM SHORE

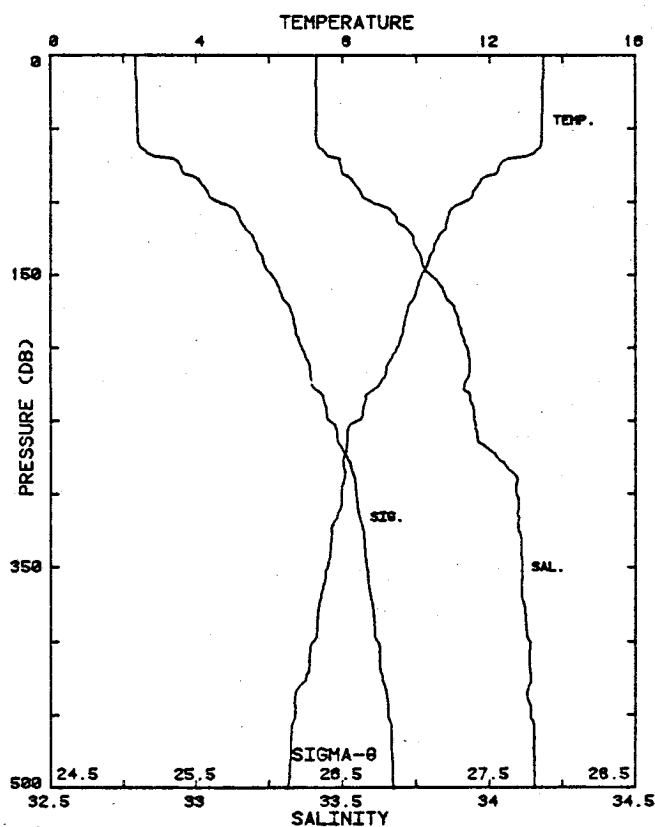
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.783	33.444	13.782	25.050	292.0	0.003
10	13.788	33.442	13.787	25.048	292.4	0.029
20	13.785	33.453	13.782	25.056	291.9	0.058
30	13.594	33.432	13.590	25.080	289.9	0.088
40	13.421	33.411	13.416	25.099	288.4	0.116
50	13.395	33.409	13.389	25.103	288.3	0.145
60	13.390	33.418	13.382	25.111	287.8	0.174
70	12.411	33.450	12.402	25.329	267.2	0.202
80	11.886	33.504	11.876	25.470	253.9	0.228
90	11.791	33.538	11.779	25.515	249.9	0.253
100	11.530	33.593	11.518	25.606	241.5	0.278
110	11.168	33.614	11.154	25.689	233.8	0.302
120	10.897	33.639	10.883	25.757	227.5	0.325
130	10.699	33.685	10.683	25.828	221.0	0.347
140	10.508	33.738	10.492	25.902	214.1	0.369
150	10.180	33.764	10.163	25.980	206.9	0.390
175	9.325	33.812	9.306	26.160	190.1	0.440
200	8.867	33.850	8.846	26.262	180.6	0.486
225	8.568	33.913	8.545	26.359	171.9	0.530
250	8.375	33.967	8.349	26.431	165.4	0.572
300	7.676	34.028	7.647	26.583	151.6	0.651
400	6.686	34.079	6.649	26.762	135.5	0.795
500	5.908	34.144	5.865	26.915	121.7	0.922
600	5.380	34.201	5.330	27.025	111.9	1.039
800	4.833	34.322	4.769	27.186	98.3	1.245
1000	4.072	34.423	3.996	27.349	83.4	1.425
1007	4.065	34.424	3.988	27.352	83.2	1.431

STA NO 44 HM7 LAT: 37 19.7 N LONG:123 3.1 W
 14 JAN 1983 1203 GMT PROBE 2561 DEPTH 740M
 55.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.773	33.451	13.773	25.057	291.3	0.003
10	13.768	33.447	13.767	25.055	291.7	0.029
20	13.765	33.447	13.762	25.056	291.9	0.058
30	13.685	33.436	13.681	25.064	291.4	0.087
40	13.561	33.419	13.555	25.077	290.5	0.117
50	13.494	33.420	13.487	25.091	289.4	0.146
60	13.196	33.444	13.188	25.170	282.1	0.174
70	12.597	33.513	12.587	25.342	266.0	0.202
80	11.830	33.557	11.820	25.522	249.0	0.228
90	11.365	33.610	11.354	25.650	237.1	0.252
100	11.017	33.648	11.005	25.742	228.5	0.275
110	10.827	33.676	10.813	25.798	223.4	0.298
120	10.560	33.735	10.546	25.891	214.7	0.320
130	10.327	33.750	10.312	25.943	209.9	0.341
140	10.290	33.782	10.274	25.974	207.2	0.362
150	10.220	33.803	10.203	26.003	204.7	0.382
175	9.838	33.857	9.819	26.110	194.9	0.432
200	9.553	33.911	9.531	26.200	186.8	0.480
225	9.277	33.970	9.253	26.292	178.6	0.525
250	8.639	34.004	8.612	26.420	166.7	0.568
300	7.556	34.000	7.527	26.578	151.9	0.648
400	6.705	34.065	6.669	26.748	136.8	0.791
500	6.004	34.127	5.960	26.890	124.2	0.922
600	5.612	34.191	5.562	26.990	115.6	1.042
761	4.917	34.293	4.856	27.153	101.1	1.216



STATION 44 HM 7



STATION 45 HM 6

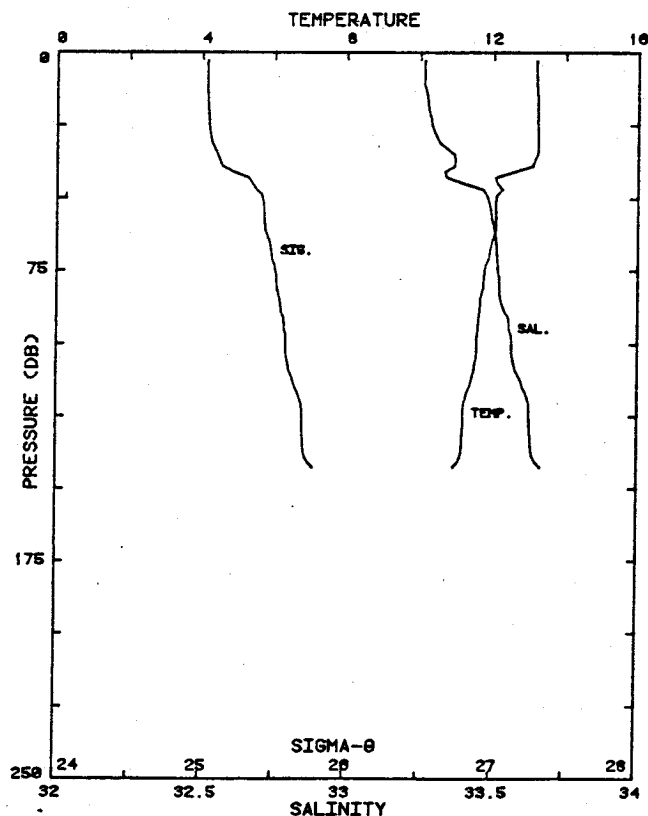
STA NO 45 HM6 LAT: 37 20.6 N LONG: 122 56.9 W
14 JAN 1983 1310 GMT PROBE 2561 DEPTH 506M
46.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.481	33.411	13.481	25.086	288.6	0.003
10	13.485	33.411	13.484	25.085	288.8	0.029
20	13.439	33.408	13.437	25.093	288.4	0.058
30	13.442	33.410	13.438	25.094	288.6	0.087
40	13.438	33.410	13.433	25.095	288.8	0.115
50	13.432	33.409	13.425	25.096	289.0	0.144
60	13.414	33.412	13.406	25.102	288.6	0.173
70	12.751	33.470	12.742	25.278	272.1	0.202
80	12.195	33.497	12.184	25.407	260.0	0.228
90	11.630	33.548	11.619	25.553	246.3	0.253
100	11.316	33.595	11.304	25.647	237.6	0.277
110	10.870	33.679	10.856	25.792	223.9	0.300
120	10.735	33.722	10.721	25.850	218.6	0.322
130	10.477	33.744	10.461	25.913	212.9	0.344
140	10.329	33.767	10.313	25.956	209.0	0.365
150	10.141	33.796	10.124	26.011	203.9	0.386
175	9.749	33.880	9.729	26.143	191.8	0.435
200	9.474	33.921	9.452	26.220	184.9	0.482
225	9.018	33.914	8.994	26.289	178.7	0.528
250	8.429	33.946	8.403	26.407	167.8	0.570
300	7.962	34.092	7.932	26.592	150.9	0.649
400	7.216	34.138	7.177	26.736	138.4	0.794
500	6.518	34.158	6.472	26.848	128.8	0.926
501	6.516	34.157	6.470	26.848	128.7	0.927

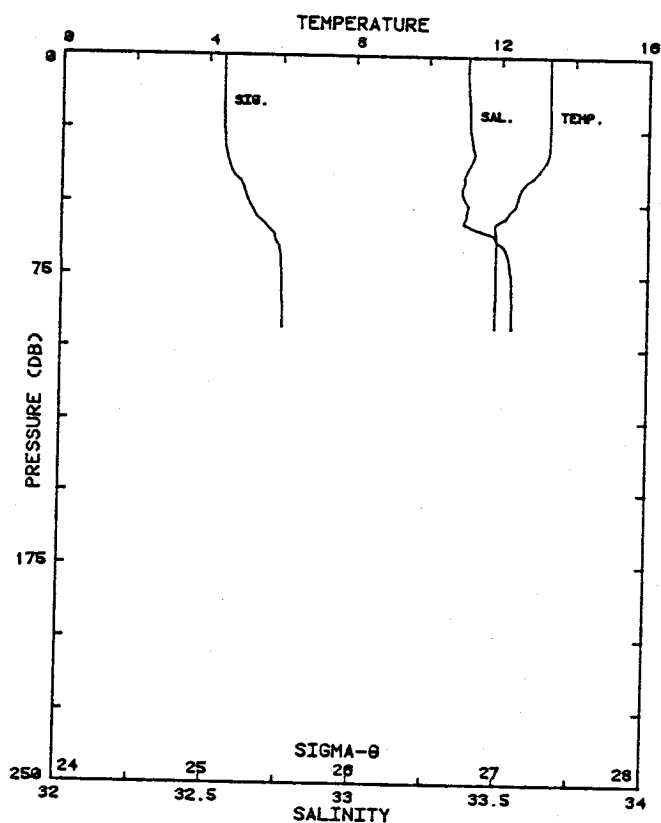
STA NO 46 HMs LAT: 37 21.4 N LONG: 122 50.7 W
14 JAN 1983 1409 GMT PROBE 2561 DEPTH 1481
37.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DEL
3	13.178	33.262	13.177	25.032	293.7	0.00
10	13.187	33.262	13.186	25.030	294.0	0.02
20	13.214	33.279	13.211	25.038	293.6	0.05
30	13.229	33.310	13.225	25.060	291.8	0.08
40	12.802	33.350	12.796	25.175	281.1	0.11
50	12.088	33.481	12.081	25.415	258.5	0.14
60	12.078	33.501	12.070	25.432	257.1	0.16
70	11.883	33.514	11.874	25.479	252.9	0.19
80	11.735	33.522	11.724	25.513	249.9	0.22
90	11.623	33.547	11.611	25.553	246.3	0.24
100	11.558	33.564	11.545	25.579	244.1	0.26
110	11.470	33.583	11.456	25.610	241.4	0.29
120	11.226	33.624	11.211	25.686	234.3	0.31
130	11.183	33.629	11.167	25.698	233.4	0.34
140	11.092	33.643	11.075	25.726	231.0	0.36
143	10.933	33.666	10.915	25.772	226.6	0.37

4 MIN GAP AT 57-59 DB



STATION 46 HM 5



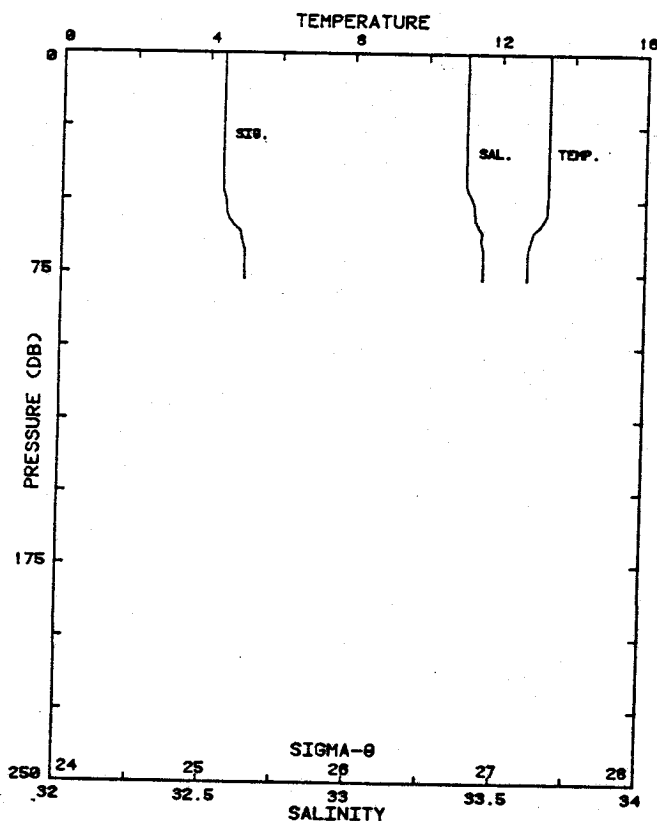
STATION 47 HM 4

STA NO 47 HM4 LAT: 37 22.2 N LONG: 122 44.9 W
 14 JAN 1983 1455 GMT PROBE 2561 DEPTH 94M
 28.3 KM FROM SHORE

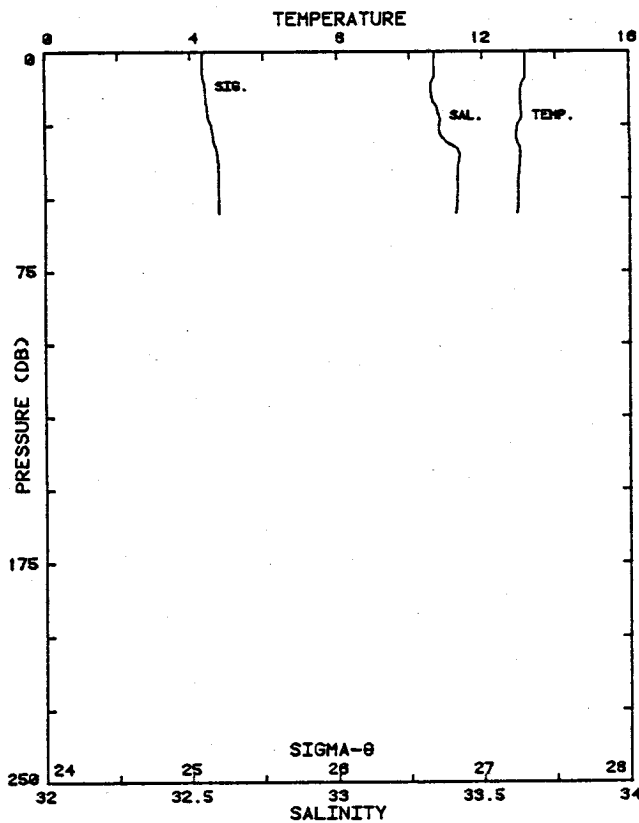
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.310	33.384	13.310	25.100	287.2	0.003
10	13.314	33.385	13.313	25.100	287.4	0.029
20	13.326	33.392	13.324	25.103	287.4	0.057
30	13.321	33.402	13.317	25.112	286.8	0.086
40	12.957	33.377	12.951	25.166	282.0	0.115
50	12.415	33.383	12.408	25.276	271.7	0.142
60	11.842	33.441	11.834	25.430	257.3	0.169
70	11.862	33.527	11.853	25.493	251.5	0.194
80	11.858	33.536	11.848	25.501	251.0	0.219
90	11.844	33.539	11.833	25.504	250.8	0.244
93	11.844	33.539	11.832	25.506	250.9	0.252

STA NO 48 HM3 LAT: 37 23.0 N LONG: 122 39.1 W
 14 JAN 1983 1543 GMT PROBE 2561 DEPTH 80M
 19.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.303	33.381	13.303	25.099	287.3	0.00
10	13.311	33.381	13.309	25.097	287.7	0.02
20	13.315	33.381	13.312	25.097	288.0	0.03
30	13.317	33.381	13.313	25.097	288.3	0.08
40	13.320	33.382	13.314	25.097	288.5	0.11
50	13.300	33.404	13.293	25.118	286.8	0.14
60	13.000	33.431	12.992	25.199	279.3	0.17
70	12.761	33.443	12.752	25.255	274.2	0.20
77	12.758	33.443	12.748	25.257	274.3	0.21



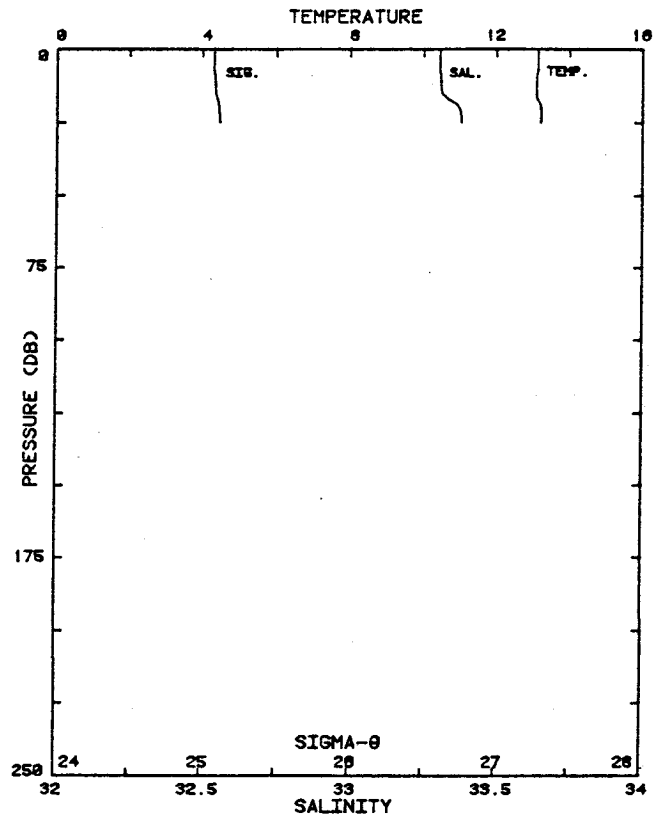
STATION 48 HM 3



STATION 49 HM 2

STA NO 49 HM2 LAT: 37 23.8 N LONG:122 33.4 W
 14 JAN 1983 1628 GHT PROBE 2561 DEPTH 62M
 11.2 KM FROM SHORE

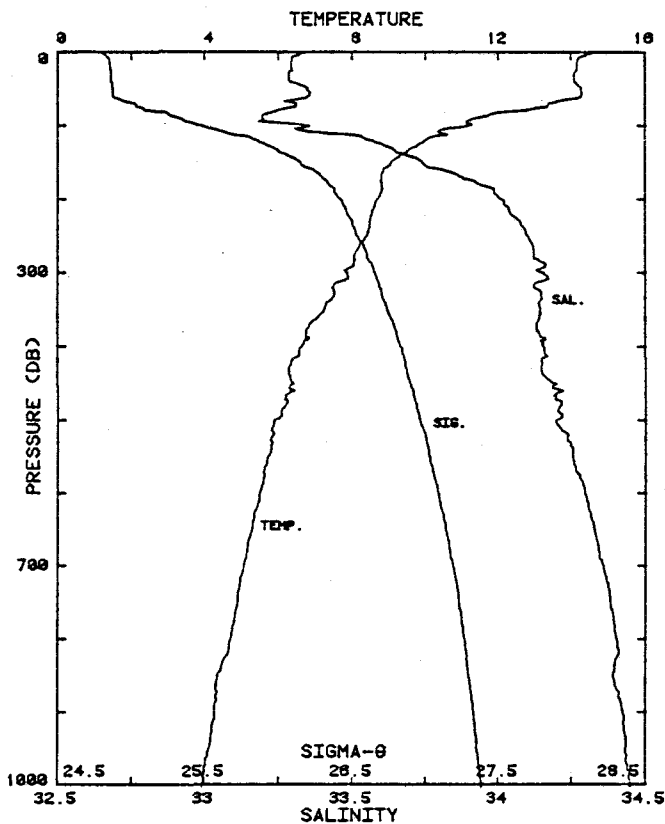
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	13.186	33.335	13.186	25.086	288.5	0.003
10	13.123	33.327	13.121	25.094	288.0	0.029
20	13.068	33.345	13.066	25.118	286.0	0.058
30	12.951	33.370	12.947	25.161	282.2	0.086
40	12.991	33.413	12.986	25.187	280.0	0.114
50	12.964	33.411	12.958	25.191	279.9	0.142
55	12.935	33.406	12.927	25.193	279.8	0.156



STATION 50 HM 1

STA NO 50 HM1 LAT: 37 24.5 N LONG:122 28.1 W
 14 JAN 1983 1710 GHT PROBE 2561 DEPTH 311
 3.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DEL
1	13.135	33.304	13.135	25.073	289.8	0.00
10	13.106	33.307	13.105	25.081	289.2	0.02
20	13.213	33.370	13.210	25.108	286.9	0.05
25	13.212	33.379	13.209	25.116	286.4	0.07



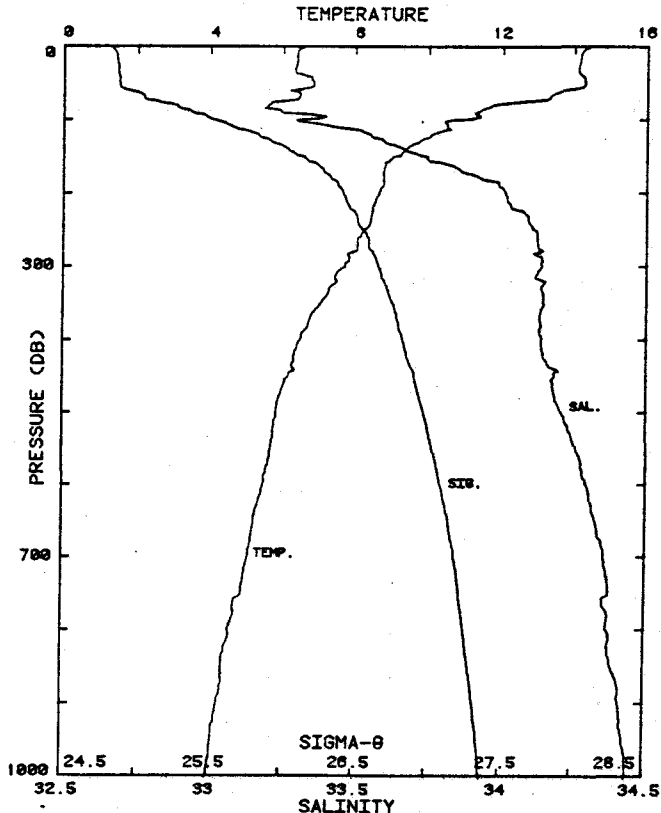
STATION 51 PR 9

STA NO 51 PR9 LAT: 34 45.0 N LONG:122 0.0 W
 15 JAN 1983 0654 GMT PROBE 2561 DEPTH 4029M
 124.9 KM FROM SHORE

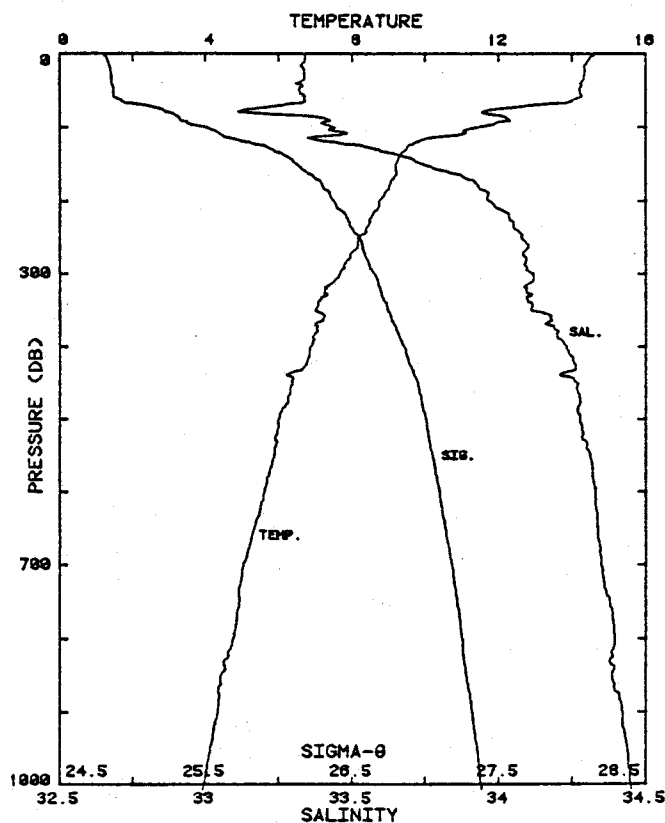
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.522	33.327	14.522	24.805	315.3	0.003
10	14.186	33.295	14.185	24.852	311.1	0.031
20	14.148	33.293	14.145	24.858	310.8	0.062
30	14.081	33.284	14.077	24.865	310.4	0.093
40	14.087	33.287	14.082	24.867	310.5	0.125
50	14.272	33.347	14.265	24.875	310.1	0.156
60	14.280	33.353	14.272	24.878	310.1	0.187
70	13.490	33.300	13.480	25.000	298.6	0.217
80	12.650	33.242	12.639	25.123	287.1	0.246
90	11.383	33.196	11.372	25.325	267.9	0.274
100	11.207	33.340	11.194	25.469	254.4	0.300
110	10.379	33.378	10.366	25.645	237.8	0.325
120	10.009	33.558	9.995	25.848	218.7	0.348
130	9.673	33.625	9.659	25.956	208.5	0.369
140	9.335	33.678	9.320	26.053	199.5	0.389
150	9.058	33.739	9.042	26.145	190.9	0.409
175	8.773	33.910	8.755	26.324	174.3	0.455
200	8.690	34.009	8.669	26.414	166.2	0.497
225	8.511	34.057	8.488	26.480	160.4	0.538
250	8.396	34.099	8.370	26.531	155.9	0.577
300	7.846	34.147	7.816	26.651	145.2	0.652
400	6.629	34.153	6.593	26.828	129.2	0.789
500	5.931	34.203	5.888	26.959	117.6	0.913
600	5.489	34.296	5.439	27.087	106.3	1.024
800	4.698	34.404	4.634	27.266	90.6	1.220
1000	3.930	34.450	3.855	27.385	79.7	1.390
1003	3.921	34.451	3.846	27.387	79.5	1.392

STA NO 52 PR9 LAT: 34 45.0 N LONG:122 0.0 W
 15 JAN 1983 0803 GMT PROBE 2561 DEPTH 4029M
 124.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.395	33.318	14.395	24.825	313.4	0.003
10	14.195	33.297	14.194	24.851	311.1	0.031
20	14.152	33.296	14.150	24.859	310.6	0.062
30	14.108	33.291	14.104	24.865	310.4	0.093
40	14.197	33.322	14.191	24.871	310.1	0.124
50	14.299	33.355	14.292	24.875	310.0	0.155
60	13.800	33.294	13.792	24.932	304.9	0.186
70	13.302	33.306	13.293	25.043	294.5	0.216
80	11.786	33.203	11.776	25.256	274.3	0.245
90	11.298	33.246	11.287	25.379	262.8	0.272
100	10.870	33.335	10.858	25.525	249.1	0.297
110	10.502	33.423	10.489	25.658	236.6	0.321
120	10.113	33.549	10.100	25.823	221.1	0.344
130	9.753	33.598	9.738	25.922	211.8	0.366
140	9.411	33.667	9.396	26.032	201.5	0.387
150	9.151	33.734	9.135	26.126	192.6	0.406
175	8.781	33.902	8.763	26.317	175.0	0.452
200	8.670	34.011	8.649	26.419	165.7	0.494
225	8.482	34.070	8.459	26.495	159.0	0.535
250	8.282	34.110	8.257	26.557	153.5	0.574
300	7.735	34.138	7.706	26.661	144.3	0.649
400	6.509	34.136	6.473	26.831	128.8	0.784
500	5.837	34.208	5.794	26.974	116.0	0.907
600	5.488	34.296	5.438	27.088	106.2	1.018
800	4.565	34.370	4.502	27.254	91.4	1.214
1000	3.982	34.443	3.907	27.375	80.8	1.385
1003	3.960	34.442	3.884	27.376	80.6	1.387



STATION 52 PR 9



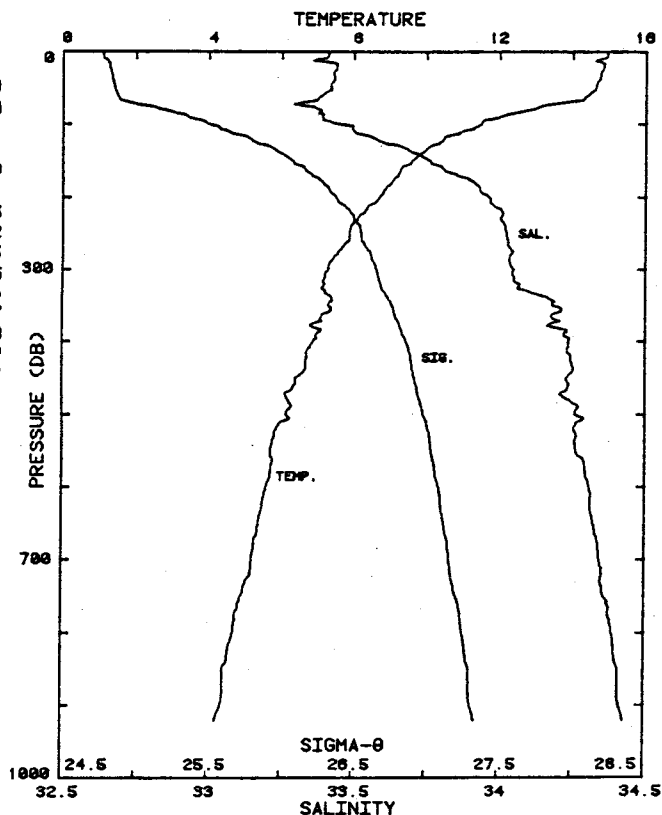
STATION 53 PR 8

STA NO 53 PR8 LAT: 34 45.0 N LONG:121 47.9 W
15 JAN 1983 1041 GMT PROBE 2561 DEPTH M
106.6 KM FROM SHORE

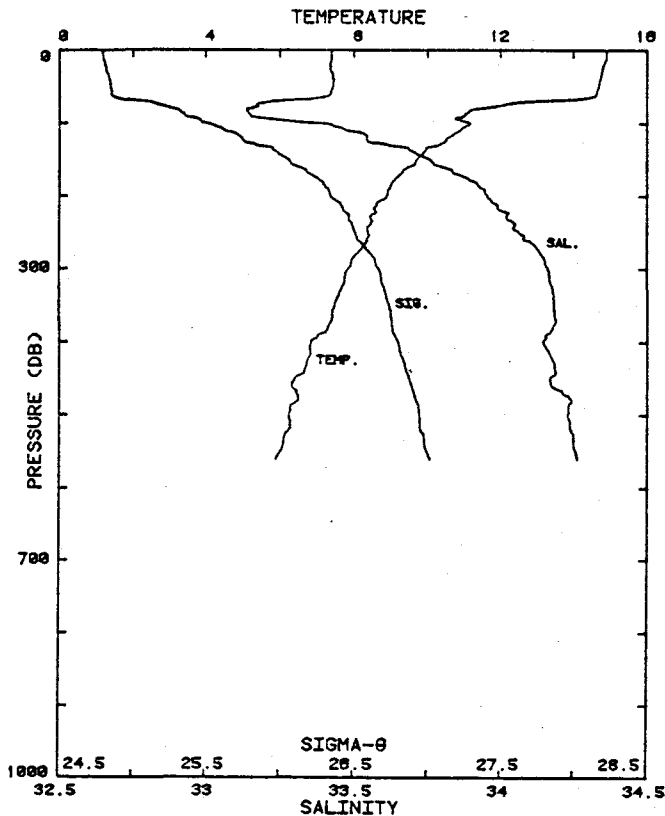
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.575	33.341	14.575	24.804	315.3	0.003
10	14.434	33.337	14.433	24.832	313.0	0.031
20	14.338	33.332	14.335	24.849	311.7	0.063
30	14.330	33.338	14.326	24.855	311.4	0.094
40	14.234	33.316	14.229	24.858	311.3	0.125
50	14.203	33.320	14.196	24.868	310.7	0.156
60	14.206	33.339	14.198	24.882	309.6	0.187
70	13.110	33.272	13.101	25.055	293.4	0.217
80	11.549	33.133	11.539	25.246	275.2	0.246
90	12.279	33.417	12.267	25.330	267.7	0.273
100	11.478	33.434	11.466	25.493	252.3	0.299
110	10.994	33.468	10.981	25.607	241.6	0.324
120	9.784	33.420	9.771	25.778	225.2	0.347
130	9.487	33.582	9.473	25.953	208.8	0.369
140	9.293	33.673	9.278	26.056	199.1	0.389
150	9.205	33.737	9.189	26.120	193.2	0.409
175	9.050	33.921	9.031	26.289	177.8	0.455
200	8.753	33.966	8.732	26.371	170.3	0.499
225	8.491	34.039	8.467	26.469	161.4	0.540
250	8.172	34.078	8.146	26.549	154.2	0.580
300	7.667	34.116	7.638	26.653	144.9	0.655
400	6.871	34.231	6.834	26.857	126.7	0.791
500	6.013	34.278	5.970	27.008	113.1	0.910
600	5.613	34.329	5.562	27.098	105.4	1.020
800	4.758	34.395	4.694	27.252	91.9	1.216
1000	3.952	34.449	3.876	27.383	80.0	1.388
1007	3.934	34.452	3.858	27.387	79.6	1.394

STA NO 54 PR7 LAT: 34 45.0 N LONG:121 36.0 W
15 JAN 1983 1230 GMT PROBE 2561 DEPTH 930M
88.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.954	33.412	14.954	24.778	317.9	0.003
10	14.815	33.389	14.814	24.790	317.0	0.032
20	14.855	33.441	14.852	24.822	314.2	0.063
30	14.769	33.429	14.764	24.831	313.6	0.095
40	14.720	33.431	14.715	24.844	312.8	0.126
50	14.626	33.421	14.619	24.857	311.8	0.157
60	14.441	33.392	14.433	24.874	310.5	0.188
70	13.915	33.339	13.905	24.944	304.1	0.219
80	12.896	33.377	12.885	25.179	281.8	0.248
90	12.019	33.390	12.007	25.358	264.9	0.276
100	11.490	33.445	11.478	25.499	251.7	0.301
110	10.985	33.500	10.972	25.633	239.1	0.326
120	10.461	33.572	10.447	25.781	225.1	0.349
130	10.110	33.656	10.095	25.907	213.3	0.371
140	9.859	33.709	9.843	25.991	205.5	0.392
150	9.612	33.758	9.595	26.070	198.1	0.412
175	9.097	33.895	9.079	26.261	180.4	0.460
200	8.712	33.964	8.691	26.376	169.8	0.504
225	8.178	34.012	8.155	26.496	158.7	0.545
250	7.877	34.024	7.853	26.550	153.9	0.584
300	7.293	34.048	7.264	26.654	144.6	0.655
400	6.890	34.238	6.852	26.860	126.5	0.791
500	6.122	34.259	6.078	26.979	115.9	0.910
600	5.595	34.311	5.544	27.086	106.5	1.020
800	4.701	34.390	4.637	27.254	91.6	1.221
921	4.209	34.431	4.139	27.341	83.7	1.331



STATION 54 PR 7



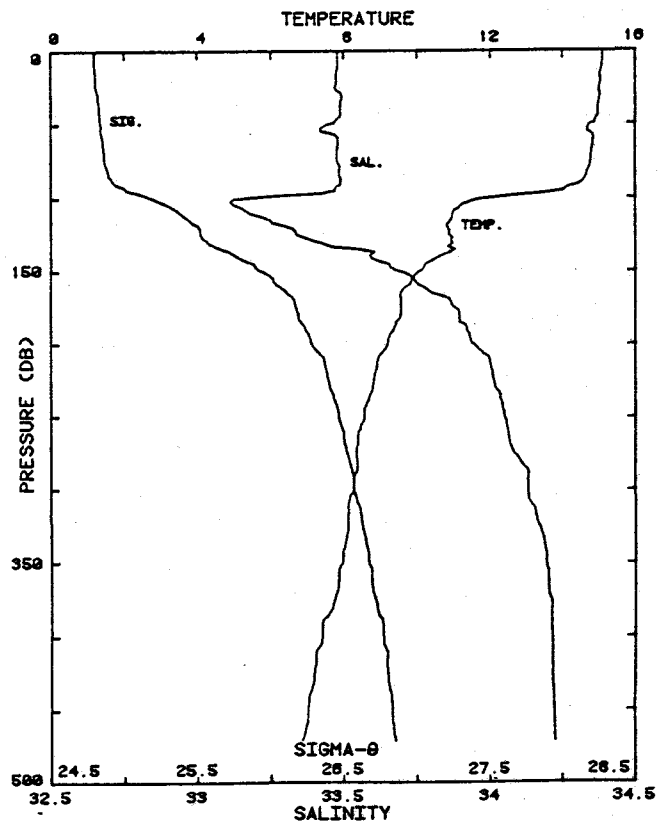
STATION 55 PR 6

STA NO 55 PR6 LAT: 34 45.0 N LONG:121 24.0 W
15 JAN 1983 1402 GMT PROBE 2561 DEPTH 570M
70.2 KM FROM SHORE

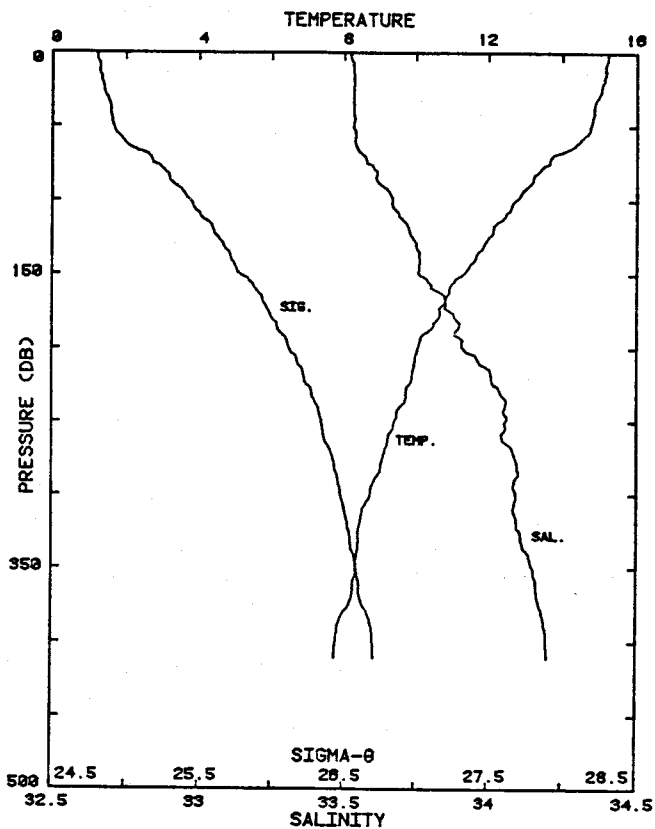
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.919	33.424	14.919	24.794	316.3	0.003
10	14.903	33.424	14.901	24.799	316.2	0.032
20	14.826	33.420	14.823	24.812	315.2	0.063
30	14.785	33.422	14.781	24.823	314.5	0.095
40	14.729	33.429	14.723	24.840	313.1	0.126
50	14.689	33.429	14.681	24.849	312.5	0.157
60	14.626	33.420	14.617	24.856	312.1	0.189
70	13.105	33.248	13.096	25.037	295.1	0.219
80	11.405	33.146	11.395	25.282	271.7	0.247
90	10.972	33.151	10.961	25.364	264.1	0.274
100	11.131	33.363	11.119	25.501	251.4	0.300
110	10.894	33.471	10.880	25.627	239.6	0.324
120	10.566	33.543	10.552	25.741	229.0	0.348
130	10.312	33.612	10.297	25.838	219.9	0.370
140	9.901	33.702	9.886	25.978	206.7	0.391
150	9.705	33.755	9.689	26.052	199.9	0.412
175	9.162	33.879	9.144	26.238	182.6	0.460
200	8.889	33.953	8.868	26.340	173.3	0.504
225	8.558	34.027	8.535	26.450	163.3	0.546
250	8.372	34.061	8.347	26.505	158.4	0.586
300	7.845	34.162	7.815	26.663	144.1	0.662
400	6.827	34.145	6.790	26.795	132.5	0.800
500	6.239	34.231	6.194	26.941	119.6	0.926
561	5.896	34.262	5.847	27.011	113.5	0.998

STA NO 56 PR5 LAT: 34 45.0 N LONG:121 12.0 W
15 JAN 1983 1529 GMT PROBE 2561 DEPTH 469M
52.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	15.113	33.480	15.113	24.796	316.2	0.003
10	15.095	33.479	15.093	24.799	316.1	0.032
20	15.057	33.475	15.054	24.804	315.9	0.063
30	15.040	33.492	15.036	24.821	314.6	0.095
40	14.985	33.488	14.979	24.831	314.0	0.126
50	14.815	33.452	14.807	24.840	313.4	0.158
60	14.855	33.479	14.846	24.853	312.5	0.189
70	14.791	33.476	14.780	24.865	311.7	0.220
80	14.736	33.486	14.724	24.884	310.1	0.251
90	14.505	33.489	14.492	24.936	305.5	0.282
100	12.092	33.185	12.080	25.184	281.7	0.312
110	10.987	33.172	10.974	25.378	263.3	0.339
120	10.834	33.310	10.819	25.513	250.7	0.364
130	10.945	33.411	10.929	25.572	245.3	0.389
140	10.604	33.593	10.588	25.773	226.4	0.413
150	10.088	33.690	10.071	25.938	210.9	0.435
175	9.563	33.877	9.543	26.172	189.0	0.484
200	9.203	33.943	9.181	26.282	178.9	0.530
225	8.822	34.012	8.799	26.397	168.4	0.573
250	8.558	34.049	8.532	26.467	162.1	0.614
300	8.289	34.132	8.258	26.574	152.8	0.693
400	7.404	34.215	7.365	26.770	135.4	0.836
471	6.859	34.224	6.815	26.854	128.1	0.930



STATION 56 PR 5



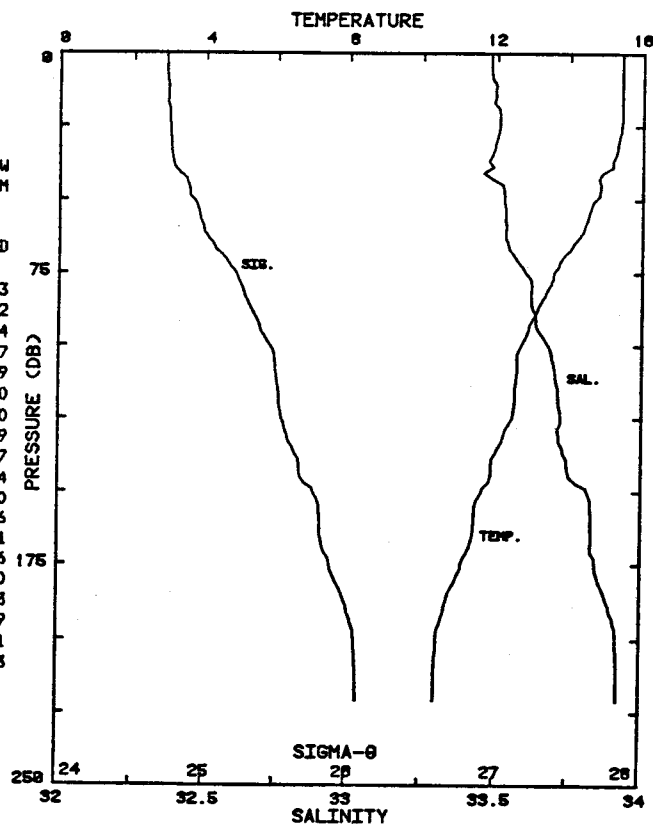
STATION 57 PR 4

STA NO 57 PR4 LAT: 34 45.0 N LONG:121 0.0 W
 15 JAN 1983 1645 GMT PROBE 2561 DEPTH 414M
 33.7 KM FROM SHORE

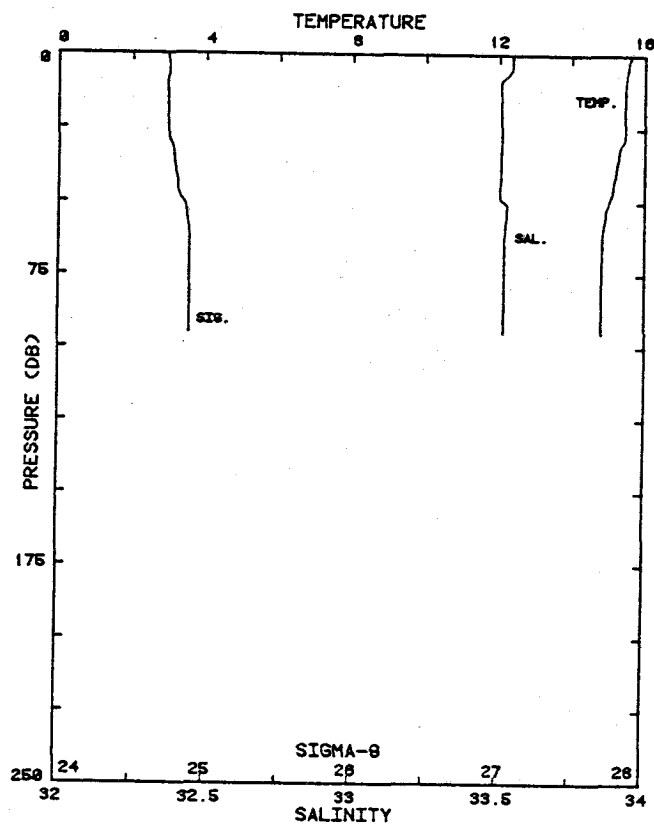
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	15.214	33.521	15.214	24.805	315.2	0.003
10	15.160	33.531	15.159	24.824	313.7	0.031
20	15.108	33.534	15.105	24.839	312.7	0.063
30	14.965	33.532	14.960	24.869	310.1	0.094
40	14.835	33.532	14.829	24.897	307.7	0.125
50	14.749	33.531	14.742	24.915	306.3	0.155
60	14.453	33.537	14.444	24.983	300.1	0.186
70	13.724	33.567	13.714	25.159	283.6	0.215
80	13.383	33.608	13.372	25.260	274.2	0.243
90	13.095	33.628	13.083	25.333	267.4	0.270
100	12.749	33.667	12.735	25.432	258.3	0.296
110	12.474	33.690	12.459	25.504	251.7	0.322
120	12.135	33.725	12.119	25.596	243.1	0.347
130	11.887	33.750	11.871	25.662	237.0	0.371
140	11.630	33.762	11.613	25.720	231.7	0.394
150	11.311	33.761	11.292	25.778	226.4	0.417
175	10.660	33.867	10.639	25.977	207.9	0.471
200	10.056	33.912	10.033	26.117	194.9	0.521
225	9.821	34.018	9.796	26.240	183.8	0.568
250	9.411	34.061	9.383	26.341	174.5	0.613
300	8.729	34.095	8.698	26.478	162.2	0.697
400	7.785	34.200	7.746	26.704	142.0	0.849
411	7.744	34.204	7.703	26.713	141.3	0.865

STA NO 58 PR3 LAT: 34 45.0 N LONG:120 54.0 W
 15 JAN 1983 1738 GMT PROBE 2561 DEPTH 229M
 24.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	15.426	33.477	15.426	24.724	322.9	0.003
10	15.421	33.488	15.420	24.734	322.3	0.032
20	15.433	33.506	15.430	24.746	321.5	0.064
30	15.339	33.497	15.334	24.760	320.5	0.097
40	15.047	33.470	15.041	24.804	316.6	0.129
50	14.732	33.525	14.725	24.914	306.4	0.160
60	14.406	33.532	14.397	24.989	299.5	0.190
70	13.825	33.565	13.815	25.136	285.7	0.219
80	13.452	33.621	13.441	25.256	274.6	0.247
90	13.046	33.635	13.034	25.348	266.0	0.274
100	12.697	33.678	12.684	25.451	256.5	0.300
110	12.571	33.703	12.556	25.495	252.5	0.326
120	12.506	33.716	12.490	25.518	250.6	0.351
130	12.242	33.715	12.225	25.568	246.1	0.376
140	11.892	33.744	11.874	25.657	237.7	0.400
150	11.638	33.816	11.619	25.760	228.2	0.423
175	11.108	33.846	11.086	25.881	217.2	0.479
200	10.447	33.920	10.424	26.056	200.9	0.531
221	10.393	33.925	10.367	26.070	200.0	0.573



STATION 58 PR 3



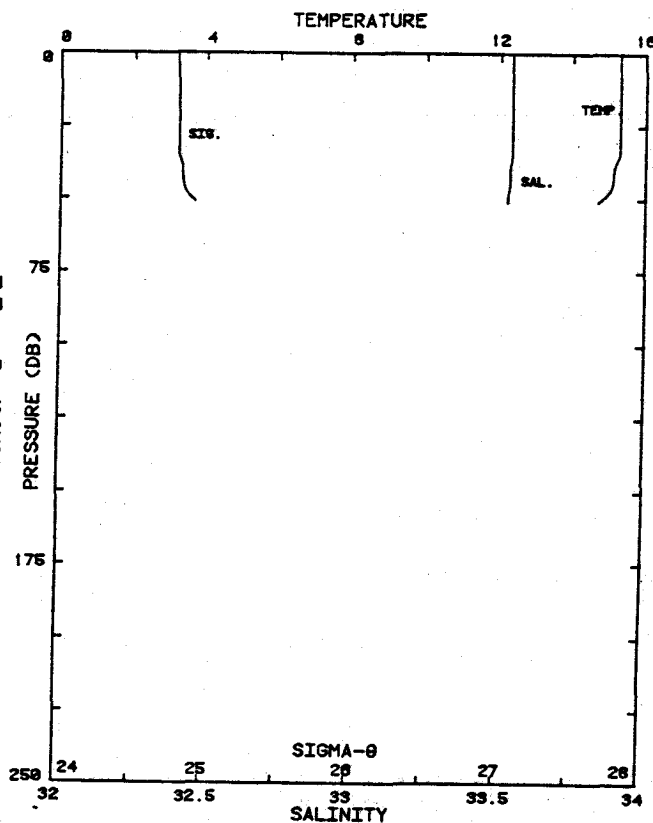
STATION 59 PR 2

STA NO 59 PR2 LAT: 34 45.0 N LONG:120 48.0 W
 15 JAN 1983 1833 GMT PROBE 2561 DEPTH 100M
 15.5 KM FROM SHORE

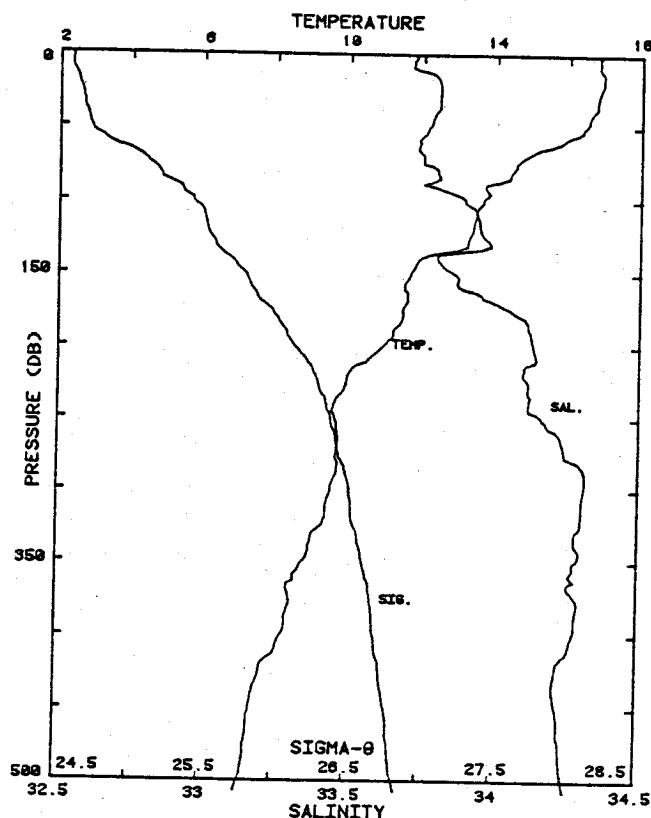
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	15.592	33.544	15.592	24.739	321.5	0.003
10	15.472	33.506	15.470	24.737	322.0	0.032
20	15.459	33.507	15.456	24.741	322.0	0.064
30	15.393	33.507	15.388	24.756	320.8	0.096
40	15.214	33.504	15.208	24.794	317.6	0.128
50	15.027	33.517	15.019	24.844	313.1	0.160
60	14.861	33.520	14.852	24.883	309.7	0.191
70	14.846	33.517	14.836	24.884	309.8	0.222
80	14.825	33.517	14.814	24.889	309.7	0.253
90	14.828	33.516	14.815	24.888	310.1	0.284
95	14.826	33.516	14.812	24.888	310.2	0.299

STA NO 60 PR1 LAT: 34 45.0 N LONG:120 42.0 W
 15 JAN 1983 1917 GMT PROBE 2561 DEPTH 56M
 6.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	15.308	33.540	15.308	24.799	315.9	0.003
10	15.291	33.539	15.290	24.802	315.8	0.032
20	15.288	33.540	15.285	24.804	316.0	0.063
30	15.288	33.540	15.283	24.804	316.3	0.095
40	15.141	33.533	15.135	24.831	314.0	0.126
50	14.815	33.526	14.807	24.897	308.0	0.158
51	14.709	33.525	14.702	24.919	305.9	0.161



STATION 60 PR 1

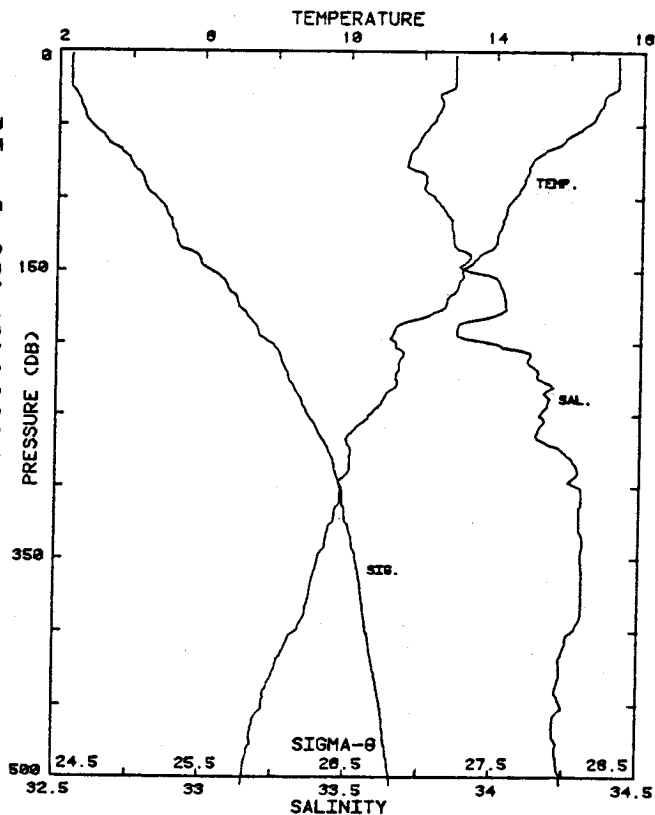


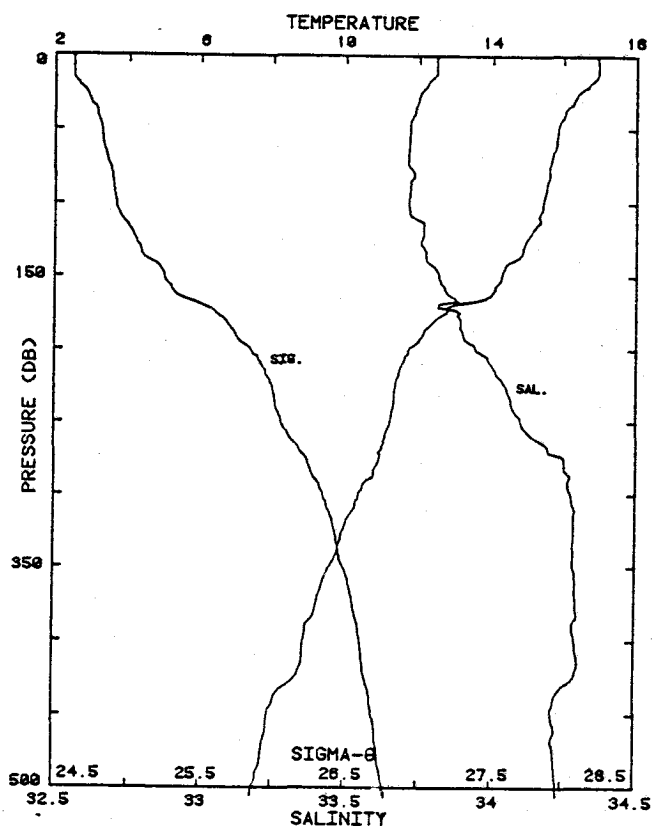
STA NO 61 DM6 LAT: 32 40.0 N LONG: 117 51.0 W
 16 JAN 1983 1259 GMT PROBE 2561 DEPTH 643M
 63.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	16.852	33.725	16.852	24.590	335.8	0.003
10	16.848	33.722	16.846	24.589	336.1	0.034
20	16.932	33.805	16.928	24.633	332.3	0.067
30	16.796	33.805	16.791	24.666	329.5	0.100
40	16.662	33.793	16.655	24.688	327.7	0.133
50	16.440	33.770	16.432	24.722	324.8	0.166
60	15.813	33.738	15.804	24.841	313.8	0.198
70	14.819	33.751	14.809	25.070	292.2	0.228
80	14.445	33.800	14.433	25.188	281.2	0.256
90	13.687	33.774	13.675	25.327	268.2	0.284
100	13.647	33.895	13.633	25.428	258.9	0.311
110	13.445	33.937	13.429	25.502	252.0	0.336
120	13.359	33.948	13.343	25.528	249.8	0.361
130	13.227	33.983	13.209	25.582	245.0	0.386
140	11.940	33.802	11.922	25.693	234.3	0.410
150	11.682	33.859	11.663	25.786	225.7	0.433
175	11.474	34.054	11.452	25.976	208.3	0.488
200	10.961	34.134	10.936	26.132	194.0	0.538
225	9.948	34.116	9.923	26.295	178.7	0.584
250	9.650	34.164	9.622	26.382	170.7	0.628
300	9.546	34.313	9.512	26.517	159.1	0.710
400	8.241	34.281	8.199	26.699	142.8	0.861
500	7.117	34.254	7.069	26.843	129.9	0.997
507	7.040	34.259	6.992	26.857	128.6	1.006

STA NO 62 DM5 LAT: 32 45.0 N LONG: 117 41.0 W
 16 JAN 1983 1427 GMT PROBE 2561 DEPTH 1063M
 45.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	17.301	33.857	17.300	24.585	336.3	0.010
10	17.312	33.857	17.310	24.582	336.8	0.034
20	17.311	33.856	17.308	24.583	337.1	0.067
30	16.966	33.803	16.961	24.624	333.5	0.101
40	16.790	33.806	16.784	24.668	329.6	0.134
50	16.455	33.774	16.447	24.722	324.8	0.167
60	15.882	33.737	15.873	24.824	315.4	0.199
70	15.224	33.704	15.213	24.946	304.0	0.230
80	14.895	33.707	14.883	25.020	297.3	0.260
90	14.768	33.759	14.754	25.087	291.1	0.289
100	14.509	33.789	14.494	25.167	283.8	0.318
110	14.294	33.827	14.278	25.242	277.0	0.346
120	14.170	33.848	14.153	25.284	273.2	0.373
130	14.034	33.856	14.016	25.319	270.2	0.401
140	13.556	33.915	13.537	25.464	256.6	0.427
150	13.100	33.903	13.080	25.546	248.9	0.451
175	12.635	34.038	12.612	25.743	230.8	0.511
200	11.277	33.989	11.253	25.962	210.1	0.561
225	11.276	34.150	11.248	26.088	198.9	0.611
250	10.596	34.158	10.566	26.217	186.9	0.661
300	9.786	34.287	9.752	26.457	164.9	0.751
400	8.630	34.279	8.588	26.639	148.9	0.911
500	7.228	34.242	7.180	26.818	132.4	1.041
505	7.198	34.244	7.149	26.823	131.9	1.051



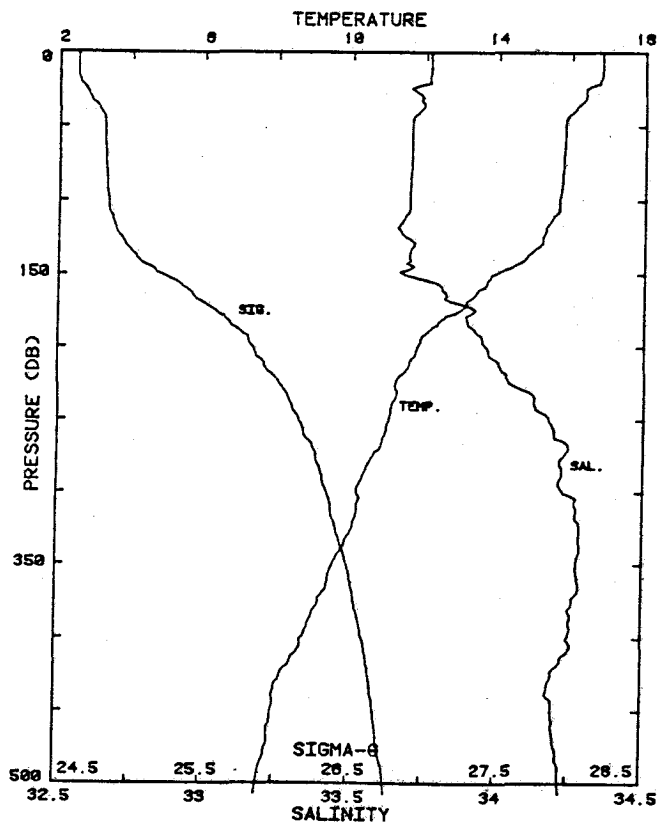


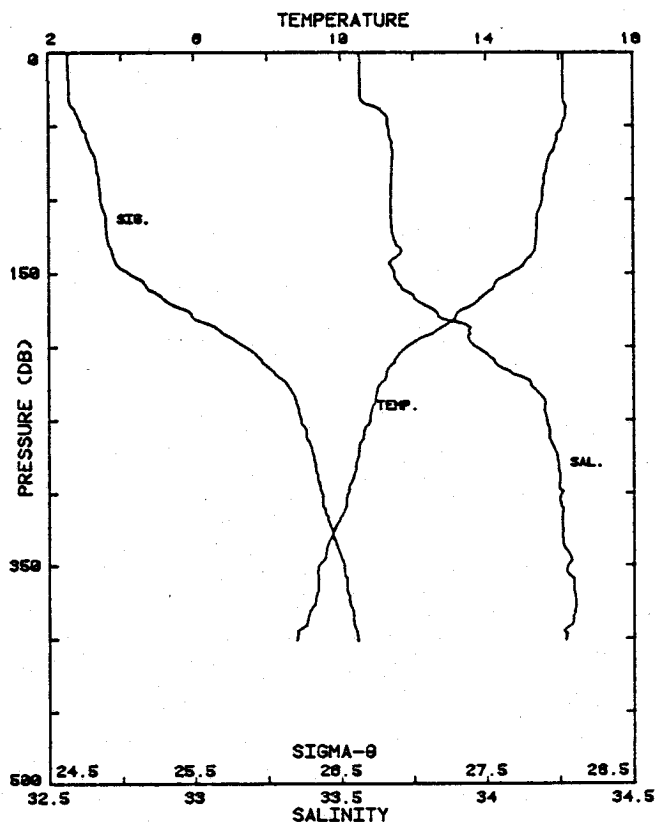
STA NO 63 DM4 LAT: 32 50.1 N LONG: 117 31.1 W
 16 JAN 1983 1546 GMT PROBE 2561 DEPTH 809H
 27.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	16.959	33.809	16.958	24.629	332.0	0.003
10	16.965	33.809	16.963	24.628	332.4	0.033
20	16.702	33.778	16.699	24.666	329.2	0.066
30	16.296	33.747	16.292	24.737	322.7	0.099
40	16.025	33.734	16.019	24.789	318.1	0.131
50	15.836	33.719	15.829	24.820	315.4	0.163
60	15.792	33.716	15.783	24.828	315.0	0.194
70	15.656	33.713	15.645	24.857	312.5	0.225
80	15.587	33.731	15.575	24.887	310.0	0.257
90	15.488	33.718	15.474	24.899	309.2	0.288
100	15.403	33.714	15.387	24.915	307.9	0.318
110	15.302	33.731	15.286	24.951	304.8	0.349
120	15.077	33.766	15.059	25.027	297.9	0.379
130	14.851	33.764	14.832	25.075	293.6	0.409
140	14.494	33.779	14.473	25.163	285.4	0.438
150	14.245	33.818	14.224	25.246	277.8	0.466
175	12.755	33.889	12.732	25.605	243.9	0.532
200	11.729	33.943	11.704	25.844	221.6	0.590
225	11.363	34.046	11.335	25.991	208.1	0.644
250	11.223	34.100	11.192	26.060	202.1	0.695
300	10.372	34.278	10.336	26.350	175.4	0.789
400	8.887	34.296	8.844	26.612	151.7	0.952
500	7.475	34.233	7.426	26.776	136.6	1.096
505	7.431	34.233	7.382	26.782	136.1	1.103

STA NO 64 DM3 LAT: 32 53.0 N LONG: 117 25.0 W
 16 JAN 1983 1651 GMT PROBE 2561 DEPTH 544H
 16.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	16.826	33.766	16.826	24.627	332.2	0.003
10	16.822	33.767	16.820	24.629	332.3	0.033
20	16.744	33.763	16.741	24.645	331.2	0.066
30	16.378	33.735	16.373	24.709	325.4	0.099
40	16.025	33.728	16.019	24.784	318.5	0.131
50	15.802	33.701	15.795	24.814	315.9	0.163
60	15.798	33.701	15.789	24.815	316.2	0.195
70	15.774	33.701	15.763	24.821	316.0	0.226
80	15.753	33.700	15.741	24.825	315.9	0.258
90	15.731	33.698	15.718	24.829	315.9	0.289
100	15.667	33.697	15.652	24.843	314.8	0.321
110	15.557	33.687	15.541	24.860	313.5	0.352
120	15.302	33.661	15.283	24.897	310.3	0.384
130	15.177	33.712	15.157	24.964	304.2	0.414
140	14.719	33.698	14.698	25.052	296.0	0.444
150	13.922	33.673	13.901	25.202	281.8	0.473
175	12.984	33.924	12.960	25.586	245.8	0.539
200	11.841	33.959	11.816	25.835	222.5	0.597
225	11.227	34.040	11.199	26.012	206.0	0.651
250	11.050	34.177	11.019	26.151	193.5	0.701
300	10.182	34.227	10.147	26.343	175.9	0.793
400	8.750	34.250	8.708	26.597	153.0	0.957
500	7.582	34.226	7.532	26.755	138.7	1.102
507	7.544	34.229	7.494	26.763	138.1	1.112

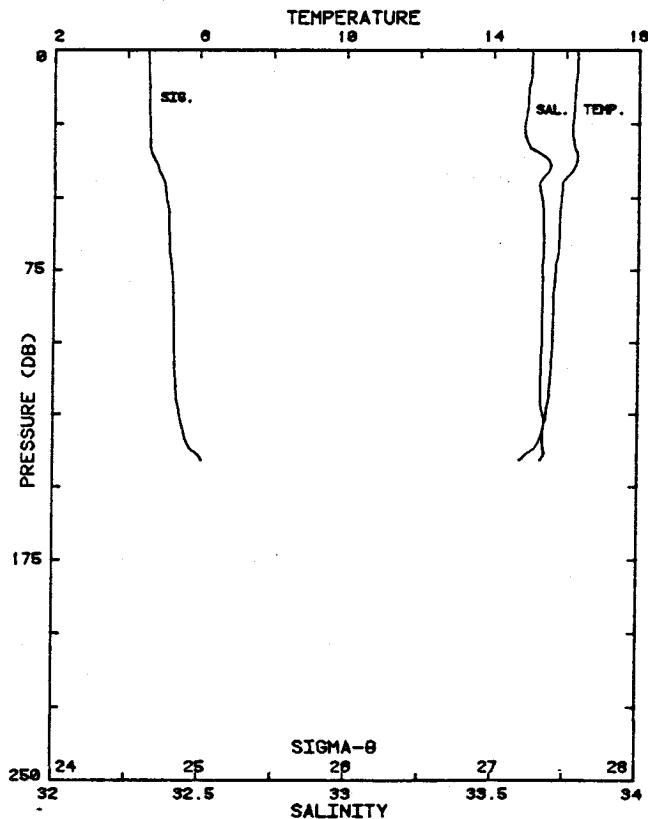




STATION 65 DM 2

STA NO 66 DM1 LAT: 32 56.0 N LONG: 117 19.0 W
16 JAN 1983 1820 GMT PROBE 2561 DEPTH 147M
5.4 KM FROM SHORE

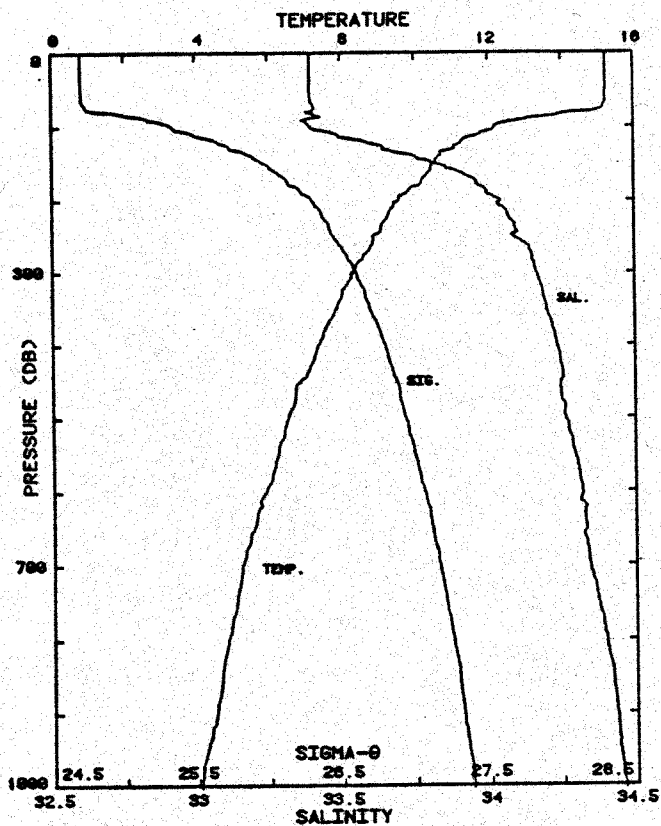
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	16.319	33.631	16.319	24.641	330.8	0.003
10	16.282	33.627	16.280	24.647	330.6	0.033
20	16.224	33.616	16.221	24.652	330.5	0.066
30	16.199	33.613	16.194	24.656	330.4	0.099
40	16.222	33.695	16.215	24.714	325.2	0.132
50	15.883	33.667	15.876	24.770	320.2	0.164
60	15.824	33.673	15.815	24.788	318.8	0.196
70	15.789	33.674	15.778	24.797	318.3	0.228
80	15.689	33.671	15.676	24.818	316.6	0.260
90	15.654	33.670	15.640	24.825	316.2	0.291
100	15.643	33.668	15.628	24.827	316.4	0.323
110	15.606	33.666	15.589	24.833	316.0	0.355
120	15.546	33.666	15.528	24.847	315.1	0.386
130	15.397	33.675	15.377	24.887	311.5	0.418
140	14.846	33.673	14.826	25.006	300.4	0.448
141	14.762	33.666	14.741	25.019	299.2	0.451



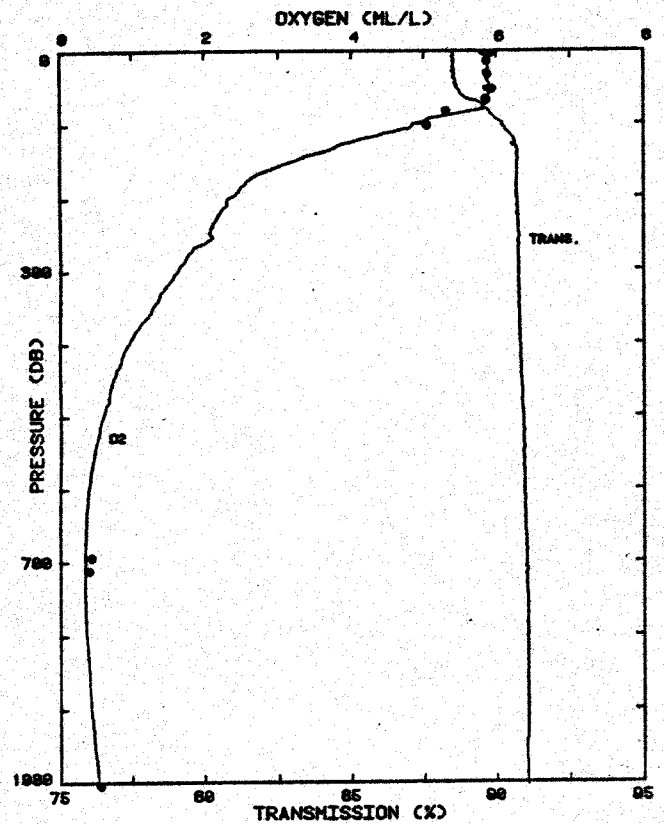
STATION 66 DM 1

PROFILE PLOTS AND LISTINGS

Legs 4-6



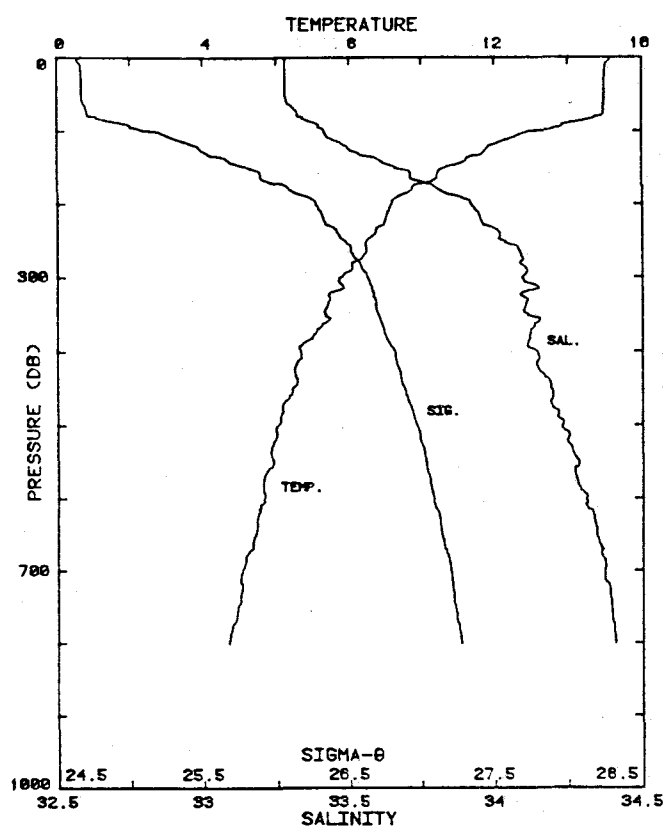
STATION 1 90.65



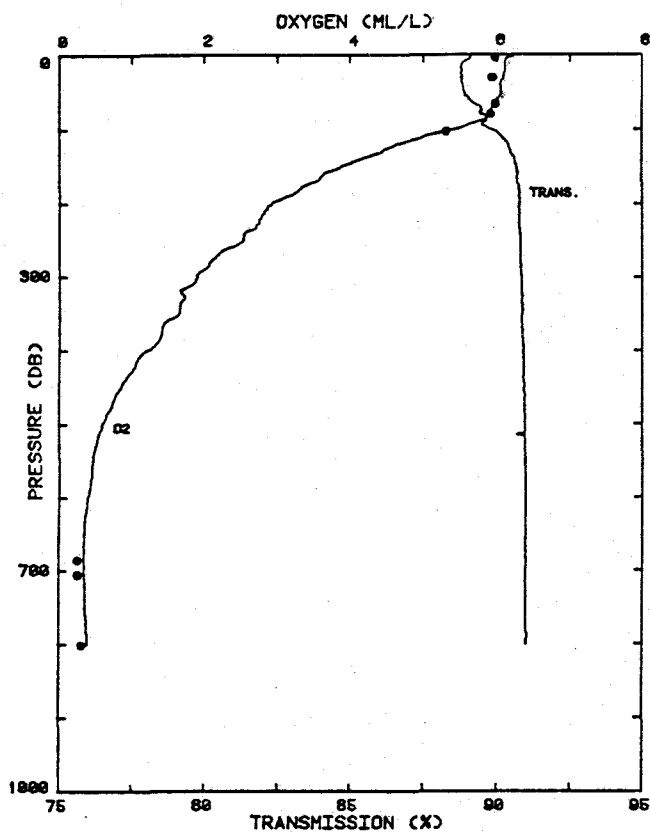
STATION 1 90.65

STA NO 1 90.65 LAT: 32 14.6 N LONG: 120 18.0 W
 06 APR 1983 1548 GMT PRQRE 2561 DEPTH 3036M
 276.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	15.238	33.395	15.238	24.703	325.0	0.003	5.85	88.4
10	15.233	33.395	15.231	24.704	325.2	0.033	5.87	88.5
20	15.236	33.395	15.233	24.704	325.5	0.065	5.88	88.5
30	15.237	33.395	15.233	24.704	325.8	0.098	5.84	88.5
40	15.234	33.395	15.228	24.705	326.0	0.130	5.87	88.6
50	15.223	33.394	15.216	24.707	326.1	0.163	5.86	88.6
60	15.214	33.394	15.205	24.711	326.1	0.195	5.90	88.8
70	15.181	33.405	15.171	24.725	325.0	0.228	5.92	89.3
80	14.548	33.392	14.536	24.852	313.2	0.260	5.83	89.6
90	13.008	33.384	12.996	25.162	283.7	0.290	5.27	89.9
100	12.171	33.394	12.158	25.332	267.6	0.317	4.90	90.2
110	11.766	33.477	11.752	25.473	254.4	0.344	4.64	90.3
120	11.266	33.573	11.251	25.640	238.7	0.368	4.22	90.6
130	11.044	33.644	11.028	25.735	229.9	0.392	3.83	90.6
140	10.667	33.746	10.650	25.881	216.2	0.414	3.58	90.7
150	10.510	33.813	10.492	25.961	208.8	0.435	3.25	90.7
175	10.177	33.957	10.157	26.131	193.1	0.485	2.62	90.7
200	9.571	34.037	9.549	26.295	177.9	0.532	2.36	90.7
225	9.245	34.069	9.221	26.374	170.8	0.575	2.18	90.7
250	8.872	34.079	8.845	26.442	164.7	0.617	2.07	90.8
300	8.319	34.159	8.288	26.591	151.3	0.696	1.64	90.8
400	7.347	34.230	7.309	26.791	133.4	0.838	0.96	90.8
500	6.503	34.258	6.458	26.929	121.1	0.965	0.59	90.9
600	5.876	34.315	5.824	27.055	109.9	1.080	0.39	91.0
800	4.817	34.397	4.753	27.247	92.5	1.282	0.37	91.1
1000	4.068	34.458	3.992	27.377	80.8	1.455	0.54	91.1
1003	4.065	34.459	3.988	27.379	80.6	1.457	0.53	91.1



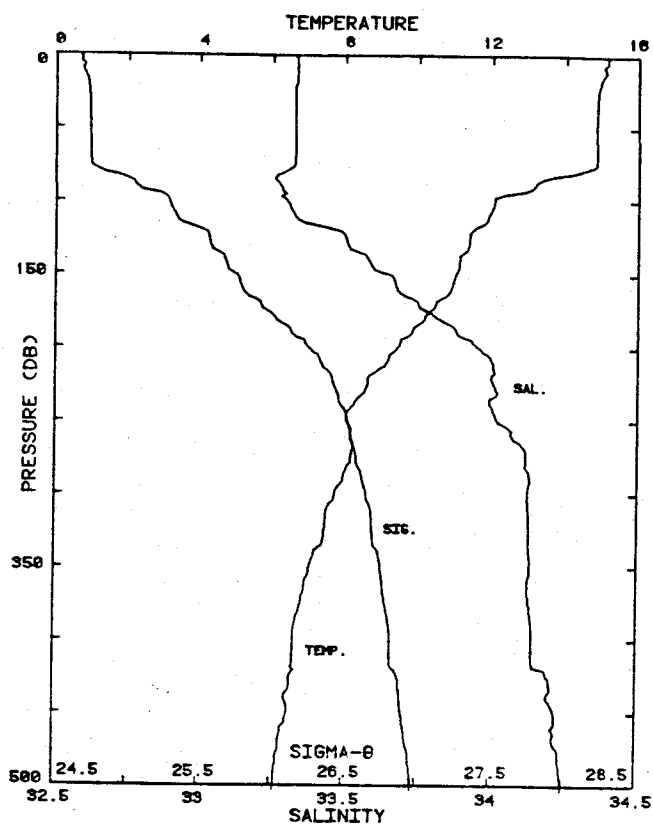
STATION 2 90.60



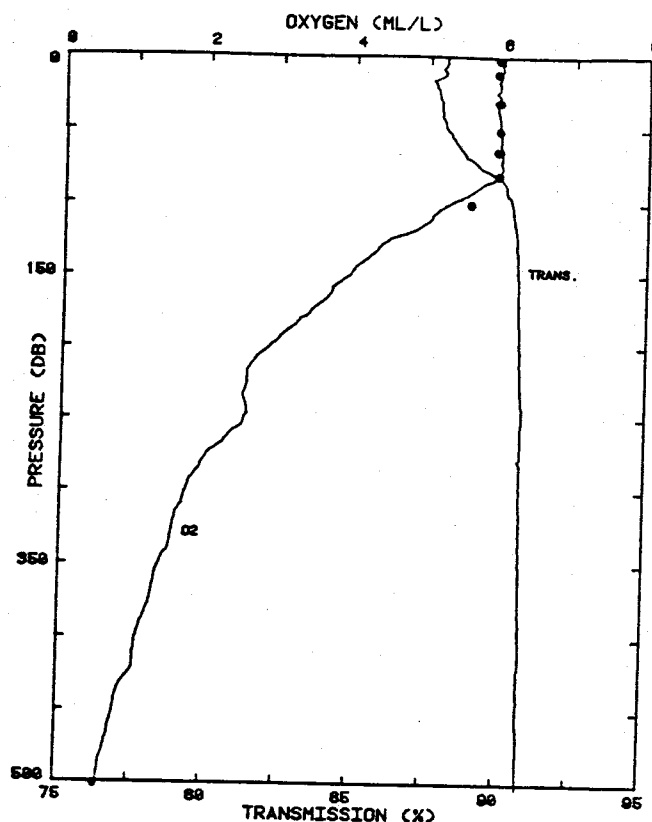
STATION 2 90.60

STA NO 2 90.60 LAT: 32 25.0 N LONG: 119 57.3 W
 06 APR 1983 1916 GMT PROBE 2561 DEPTH 915M
 238.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	15.135	33.282	15.135	24.638	331.1	0.003	6.17	89.1
10	15.014	33.279	15.012	24.663	329.1	0.033	6.11	88.8
20	15.001	33.279	14.998	24.666	329.1	0.066	6.11	88.8
30	14.994	33.280	14.990	24.668	329.2	0.099	6.09	88.8
40	14.993	33.280	14.987	24.669	329.4	0.132	6.04	88.8
50	14.991	33.280	14.983	24.670	329.6	0.165	6.06	88.9
60	14.985	33.286	14.977	24.676	329.3	0.198	6.00	89.1
70	14.967	33.313	14.956	24.701	327.3	0.231	5.95	89.4
80	14.839	33.332	14.827	24.744	323.5	0.263	5.92	89.5
90	13.996	33.390	13.983	24.966	302.5	0.295	5.73	89.6
100	13.206	33.414	13.192	25.146	285.5	0.324	5.43	89.8
110	12.489	33.435	12.474	25.304	270.7	0.352	5.01	90.2
120	11.910	33.487	11.895	25.454	256.5	0.378	4.66	90.4
130	11.691	33.529	11.675	25.528	249.7	0.404	4.44	90.5
140	11.230	33.605	11.213	25.672	236.2	0.428	4.18	90.6
150	10.682	33.660	10.665	25.812	222.9	0.451	3.90	90.7
175	9.807	33.793	9.787	26.065	199.2	0.504	3.42	90.7
200	9.180	33.920	9.158	26.268	180.3	0.552	2.94	90.8
225	8.981	33.957	8.957	26.329	175.0	0.596	2.74	90.8
250	8.477	34.030	8.451	26.465	162.3	0.638	2.53	90.8
300	7.757	34.094	7.728	26.623	147.8	0.715	1.90	90.9
400	6.660	34.145	6.624	26.817	130.3	0.856	1.24	90.9
500	6.048	34.231	6.004	26.966	117.0	0.980	0.61	91.0
600	5.638	34.310	5.587	27.081	107.1	1.091	0.40	91.0
800	4.680	34.408	4.617	27.271	90.0	1.286	0.40	91.0
801	4.672	34.408	4.609	27.272	89.9	1.287	0.40	91.0



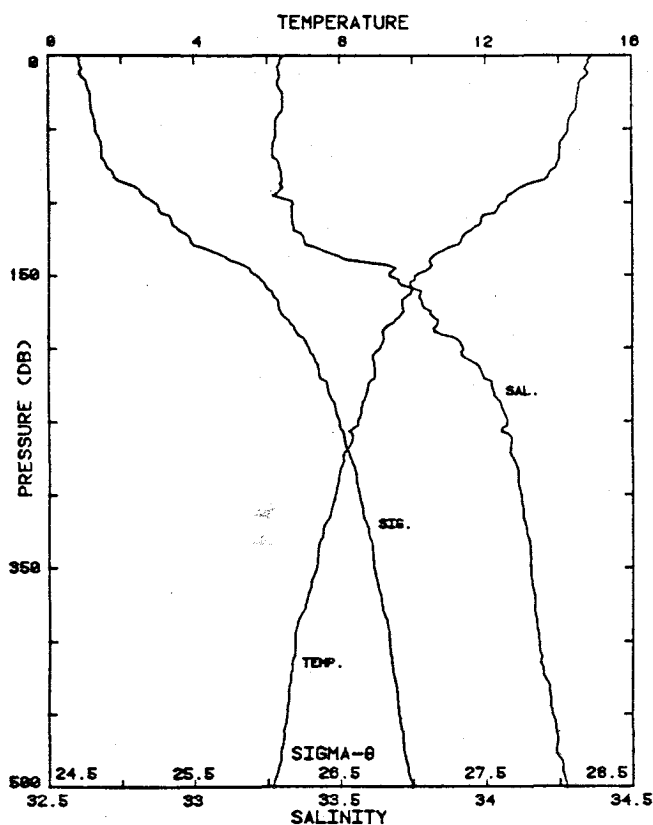
STATION 3 90.55



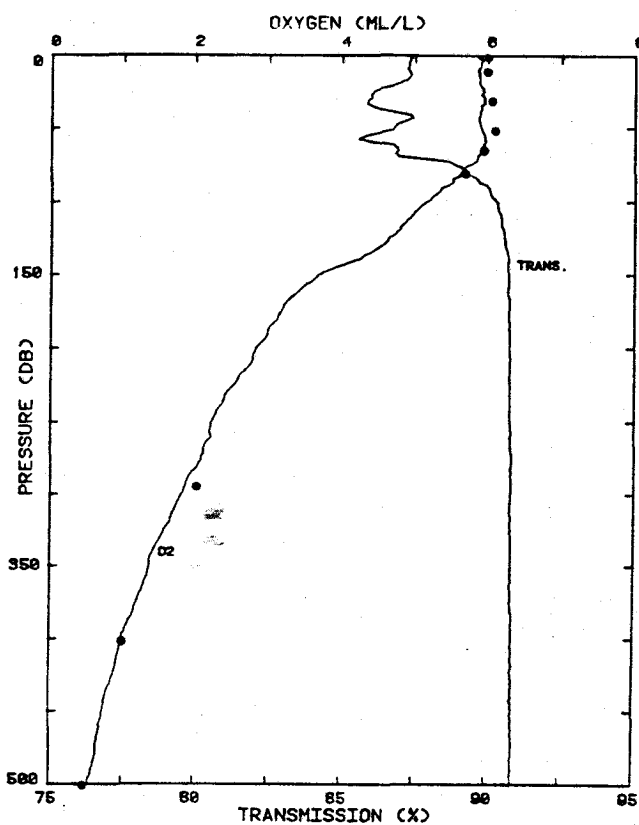
STATION 3 90.55

STA NO 3 90.55 LAT: 32 35.0 N LONG: 119 37.0 W
 06 APR 1983 2253 GMT PROBE 2561 DEPTH 1052M
 201.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	15.157	33.330	15.157	24.671	328.0	0.003	5.96	88.1
10	15.095	33.333	15.093	24.687	326.8	0.033	5.97	88.0
20	14.926	33.330	14.923	24.721	323.8	0.065	5.95	87.7
30	14.863	33.326	14.858	24.732	323.1	0.098	5.90	87.9
40	14.853	33.326	14.848	24.735	323.1	0.130	5.92	87.9
50	14.844	33.326	14.837	24.737	323.2	0.162	5.95	88.1
60	14.842	33.326	14.833	24.738	323.4	0.195	5.96	88.4
70	14.836	33.326	14.826	24.739	323.6	0.227	5.98	88.8
80	14.332	33.292	14.321	24.820	316.1	0.259	5.95	89.6
90	13.106	33.277	13.094	25.060	293.4	0.289	5.66	90.1
100	12.046	33.296	12.033	25.281	272.5	0.317	5.30	90.3
110	11.888	33.325	11.874	25.332	267.8	0.344	5.05	90.4
120	11.455	33.466	11.440	25.522	249.9	0.371	4.76	90.5
130	11.357	33.509	11.341	25.573	245.3	0.395	4.35	90.5
140	11.108	33.579	11.091	25.673	236.0	0.419	4.13	90.6
150	11.012	33.641	10.994	25.739	230.0	0.443	3.94	90.6
175	10.337	33.775	10.316	25.962	209.2	0.498	3.41	90.6
200	9.451	33.954	9.429	26.250	182.1	0.547	2.85	90.6
225	8.628	34.007	8.604	26.423	165.9	0.590	2.55	90.7
250	8.045	34.020	8.020	26.522	156.6	0.630	2.51	90.8
300	7.739	34.123	7.710	26.649	145.4	0.706	1.73	90.7
400	6.612	34.143	6.576	26.823	129.7	0.843	1.08	90.8
500	6.104	34.248	6.060	26.972	116.5	0.965	0.57	90.9
503	6.096	34.247	6.052	26.973	116.5	0.969	0.54	90.9



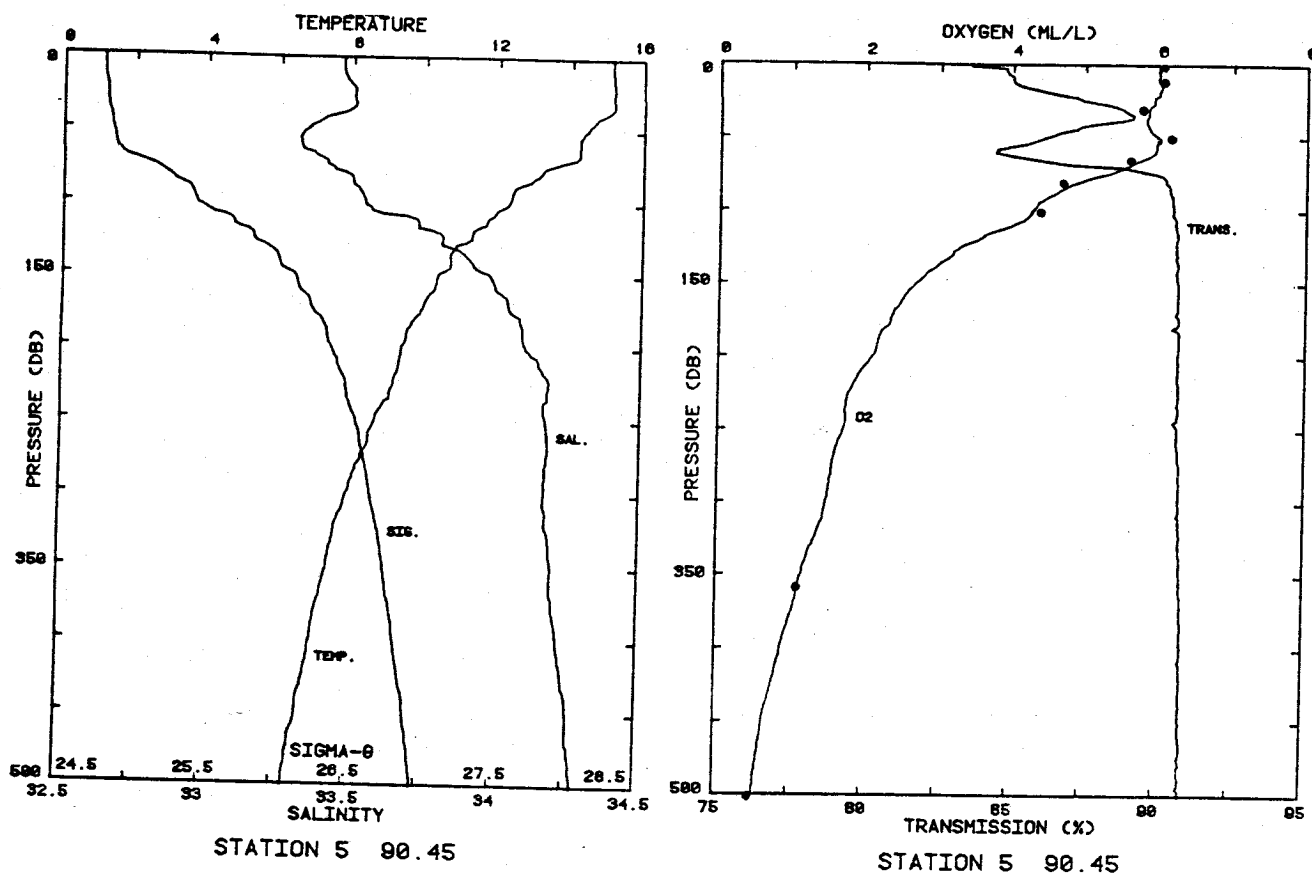
STATION 4 90.53



STATION 4 90.53

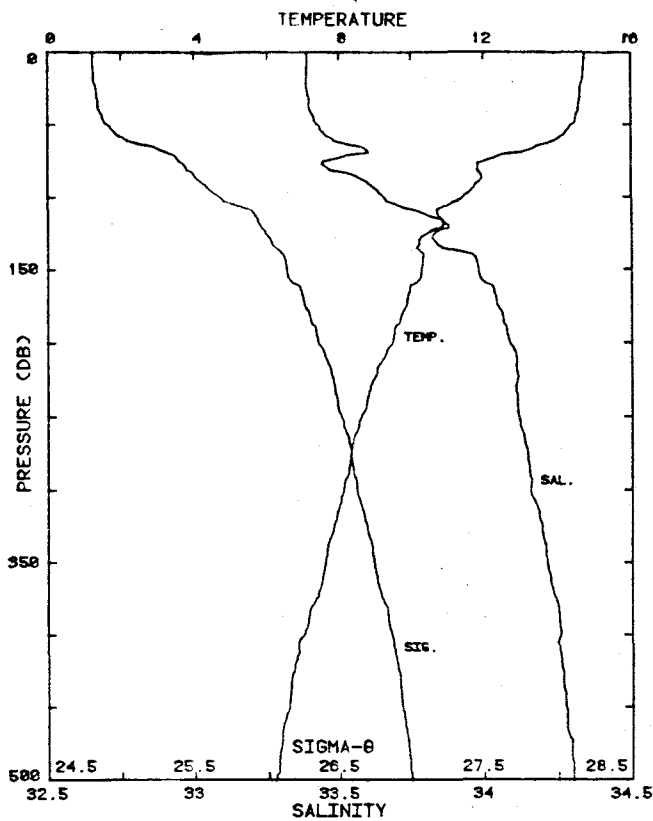
STA NO 4 90.53 LAT: 32 39.0 N LONG: 119 28.4 W
 07 APR 1983 0039 GHT PROBE 2561 DEPTH 1294M
 186.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	14.874	33.300	14.873	24.709	324.4	0.003	5.87	87.4
10	14.755	33.288	14.754	24.725	323.1	0.032	5.87	87.3
20	14.557	33.286	14.554	24.767	319.5	0.065	5.89	86.9
30	14.499	33.301	14.495	24.791	317.5	0.096	5.95	86.0
40	14.370	33.290	14.364	24.810	316.0	0.128	5.89	87.1
50	14.254	33.276	14.247	24.824	314.9	0.160	5.91	86.8
60	14.032	33.268	14.024	24.864	311.3	0.191	5.96	86.4
70	14.017	33.276	14.007	24.874	310.7	0.222	5.86	87.4
80	13.755	33.298	13.744	24.945	304.1	0.253	5.65	89.2
90	12.920	33.297	12.908	25.112	288.4	0.283	5.41	90.0
100	12.467	33.334	12.454	25.230	277.4	0.311	5.17	90.3
110	11.895	33.333	11.881	25.337	267.4	0.338	4.95	90.4
120	11.519	33.351	11.504	25.421	259.6	0.365	4.78	90.5
130	11.107	33.399	11.091	25.534	249.0	0.390	4.56	90.6
140	10.464	33.551	10.447	25.765	227.1	0.414	4.20	90.7
150	10.099	33.671	10.082	25.921	212.5	0.436	3.69	90.7
175	9.750	33.811	9.731	26.089	196.9	0.487	3.18	90.7
200	9.099	33.922	9.077	26.282	178.9	0.533	2.84	90.8
225	8.777	34.020	8.753	26.410	167.2	0.577	2.54	90.8
250	8.489	34.072	8.463	26.496	159.4	0.618	2.23	90.8
300	7.850	34.118	7.820	26.629	147.3	0.694	1.82	90.8
400	6.729	34.179	6.692	26.835	128.6	0.832	0.99	90.9
500	6.134	34.275	6.090	26.989	115.0	0.954	0.53	90.9
501	6.130	34.275	6.086	26.990	114.9	0.955	0.52	90.9

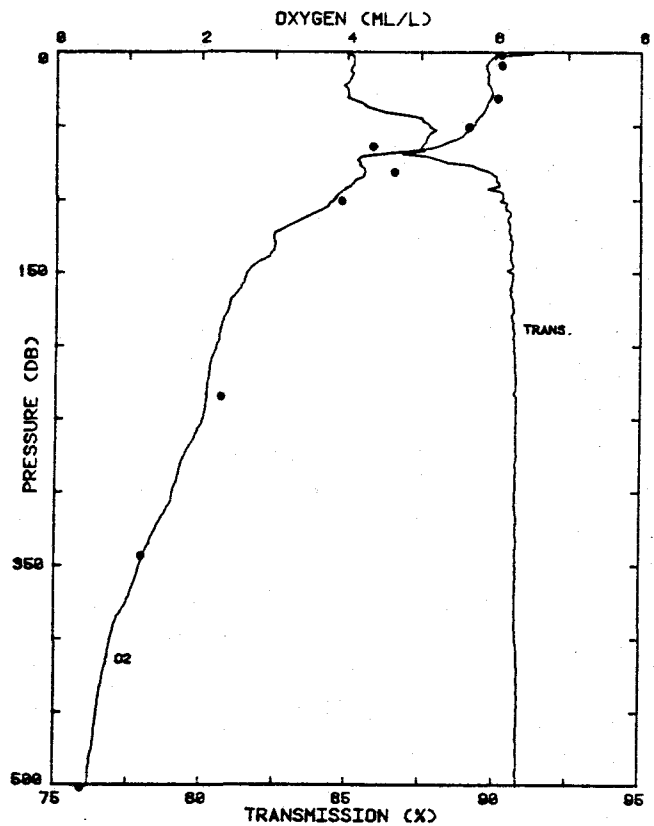


STA NO 5 90.45 LAT: 32 54.5 N LONG: 118 55.5 W
 07 APR 1983 0412 GMT PROBE 2561 DEPTH 1695M
 127.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	15.126	33.466	15.126	24.781	317.5	0.003	6.06	83.5
10	15.136	33.469	15.135	24.782	317.7	0.032	5.98	85.0
20	15.178	33.501	15.175	24.798	316.5	0.063	6.00	86.4
30	15.161	33.507	15.157	24.807	316.0	0.095	5.87	88.7
40	14.782	33.427	14.776	24.828	314.3	0.127	5.83	88.3
50	14.374	33.336	14.367	24.845	312.9	0.158	5.99	86.2
60	14.217	33.322	14.209	24.867	311.1	0.189	5.95	84.4
70	13.989	33.404	13.979	24.978	300.8	0.220	5.58	87.9
80	13.116	33.488	13.105	25.220	277.9	0.249	4.97	90.2
90	12.423	33.524	12.412	25.384	262.5	0.276	4.54	90.4
100	12.279	33.547	12.266	25.430	256.4	0.302	4.29	90.5
110	11.790	33.704	11.776	25.645	238.2	0.327	4.04	90.6
120	11.301	33.790	11.287	25.801	223.4	0.350	3.55	90.6
130	10.848	33.827	10.833	25.912	213.1	0.372	3.18	90.6
140	10.707	33.909	10.690	26.001	204.8	0.393	2.93	90.7
150	10.366	33.975	10.349	26.112	194.4	0.413	2.69	90.7
175	9.916	34.048	9.896	26.246	182.1	0.460	2.34	90.7
200	9.406	34.102	9.384	26.374	170.4	0.504	2.11	90.7
225	9.181	34.183	9.157	26.473	161.4	0.545	1.79	90.7
250	8.686	34.175	8.659	26.546	154.8	0.585	1.72	90.7
300	7.962	34.171	7.932	26.654	145.1	0.660	1.49	90.8
400	7.006	34.224	6.969	26.833	129.1	0.796	0.89	90.9
500	6.334	34.284	6.290	26.971	116.9	0.918	0.53	90.9
501	6.325	34.284	6.281	26.972	116.8	0.919	0.53	90.9



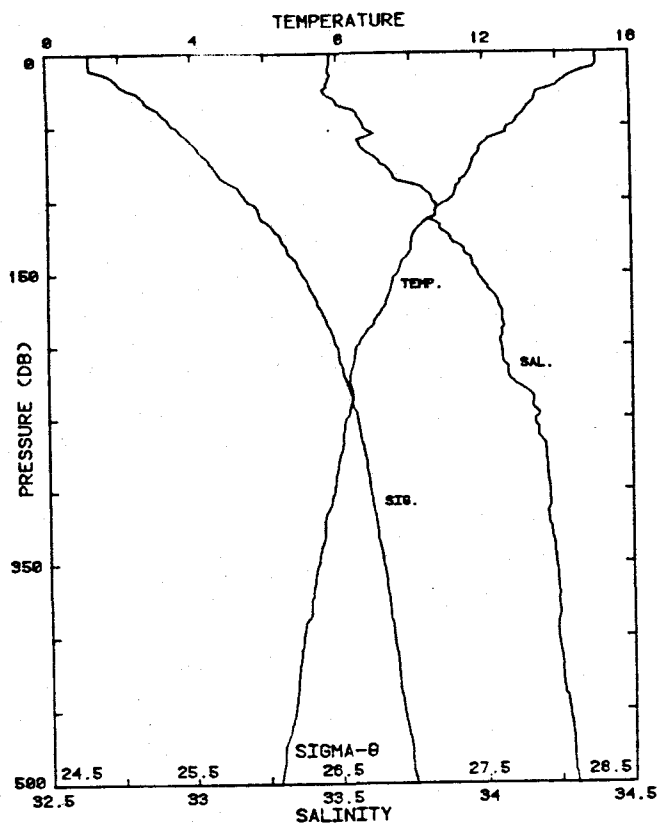
STATION 6 90.42



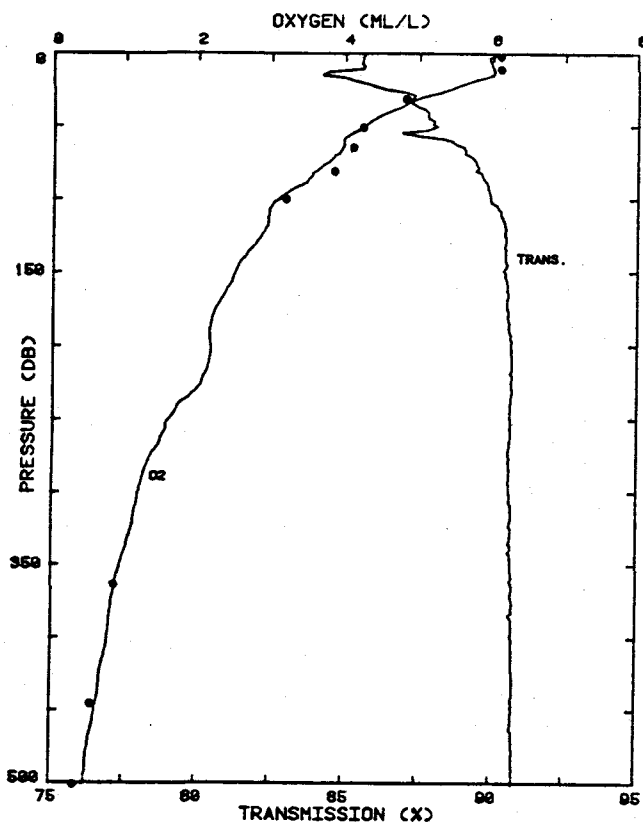
STATION 6 90.42

STA NO 6 90.42 LAT: 33 0.5 N LONG: 118 43.3 W
 07 APR 1983 0610 GMT PROBE 2561 DEPTH 1005H
 105.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	14.726	33.387	14.726	24.808	315.0	0.003	6.50	85.0
10	14.717	33.386	14.715	24.810	315.1	0.032	5.88	85.2
20	14.680	33.385	14.677	24.817	314.7	0.063	5.90	85.0
30	14.608	33.392	14.603	24.837	313.1	0.094	5.95	85.0
40	14.565	33.397	14.559	24.851	312.0	0.126	5.85	86.1
50	14.402	33.426	14.395	24.908	306.9	0.157	5.71	87.8
60	14.004	33.480	13.996	25.033	295.3	0.187	5.43	87.7
70	12.790	33.567	12.781	25.346	265.7	0.215	4.33	87.3
80	11.836	33.463	11.826	25.449	256.0	0.241	4.24	89.6
90	11.849	33.603	11.838	25.555	246.2	0.266	4.06	90.1
100	11.435	33.657	11.423	25.673	235.1	0.290	3.81	90.2
110	10.712	33.776	10.699	25.896	214.1	0.313	3.53	90.5
120	10.858	33.879	10.844	25.951	209.2	0.334	3.11	90.5
130	10.226	33.830	10.211	26.023	202.4	0.354	2.99	90.6
140	10.332	33.963	10.316	26.108	194.5	0.374	2.88	90.5
150	10.284	33.982	10.267	26.132	192.5	0.393	2.61	90.5
175	9.862	34.048	9.842	26.255	181.2	0.440	2.36	90.6
200	9.479	34.088	9.457	26.351	172.6	0.484	2.20	90.7
225	8.940	34.111	8.916	26.456	162.9	0.526	2.08	90.7
250	8.607	34.117	8.581	26.513	157.8	0.566	2.02	90.7
300	8.101	34.156	8.070	26.622	148.2	0.642	1.62	90.7
400	6.980	34.257	6.943	26.863	126.3	0.779	0.78	90.7
500	6.178	34.299	6.134	27.003	113.7	0.899	0.47	90.8
501	6.173	34.299	6.129	27.004	113.6	0.900	0.47	90.8



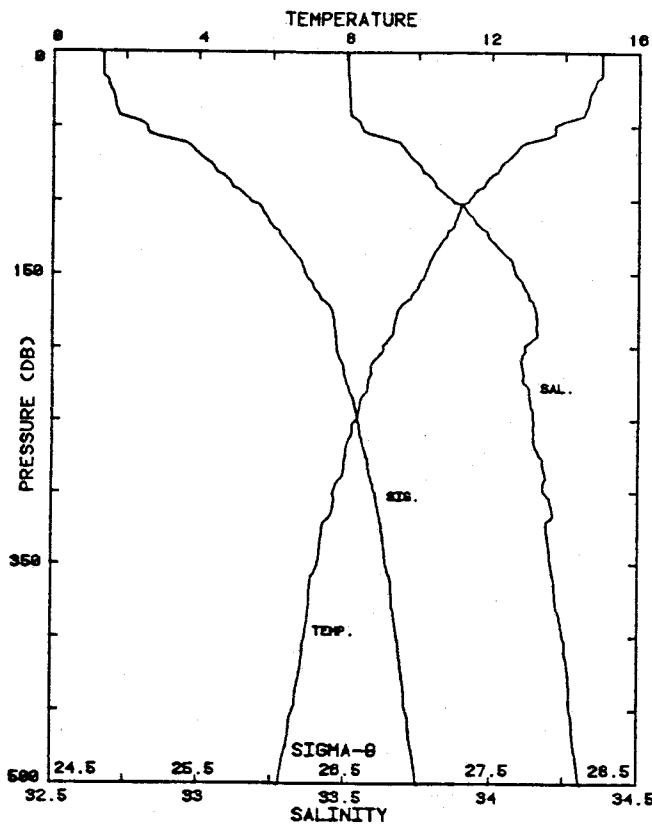
STATION 7 90.37



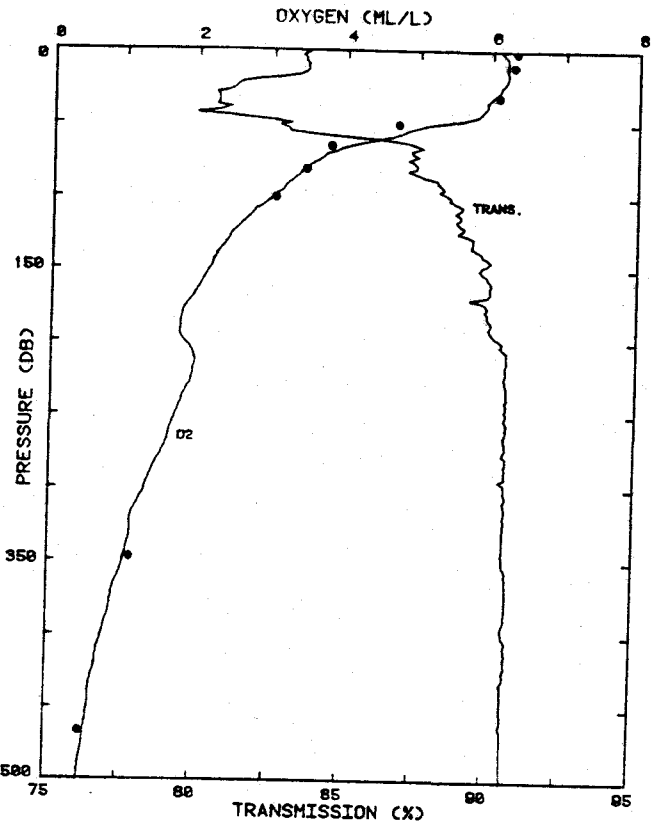
STATION 7 90.37

STA NO 7 90.37 LAT: 33 11.1 N LONG: 118 22.5 W
 07 APR 1983 0847 GMT PROBE 2561 DEPTH 1168M
 67.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	O2	TRN
			TEMP	THETA				
1	15.105	33.477	15.105	24.795	316.2	0.003	6.03	85.6
10	15.063	33.473	15.062	24.801	315.9	0.032	5.99	85.6
20	14.146	33.468	14.143	24.993	297.9	0.062	5.66	85.5
30	13.387	33.477	13.383	25.157	282.6	0.091	5.07	87.3
40	13.104	33.561	13.099	25.278	271.3	0.119	4.62	87.7
50	12.717	33.589	12.710	25.377	262.2	0.146	4.25	88.0
60	12.063	33.570	12.055	25.488	251.8	0.171	3.98	88.4
70	11.776	33.620	11.767	25.581	243.2	0.196	3.88	89.1
80	11.581	33.677	11.571	25.661	235.8	0.220	3.63	89.5
90	11.276	33.768	11.265	25.788	223.9	0.243	3.43	89.8
100	11.041	33.820	11.028	25.872	216.2	0.265	3.10	89.9
110	10.637	33.832	10.624	25.953	208.6	0.286	2.96	90.3
120	10.135	33.848	10.122	26.052	199.3	0.307	2.92	90.4
130	9.969	33.902	9.954	26.122	192.9	0.326	2.80	90.5
140	9.786	33.952	9.771	26.192	186.4	0.345	2.63	90.4
150	9.597	33.974	9.580	26.241	182.0	0.364	2.51	90.4
175	9.168	34.052	9.149	26.373	169.9	0.408	2.24	90.5
200	8.492	34.052	8.471	26.479	160.0	0.449	2.17	90.6
225	8.275	34.093	8.252	26.545	154.2	0.488	2.04	90.6
250	8.192	34.173	8.167	26.620	147.5	0.526	1.60	90.6
300	7.835	34.214	7.805	26.706	140.0	0.597	1.19	90.6
400	6.922	34.238	6.885	26.856	126.9	0.730	0.78	90.7
500	6.248	34.306	6.203	26.999	114.2	0.851	0.48	90.8
501	6.234	34.308	6.190	27.003	113.8	0.853	0.47	90.8



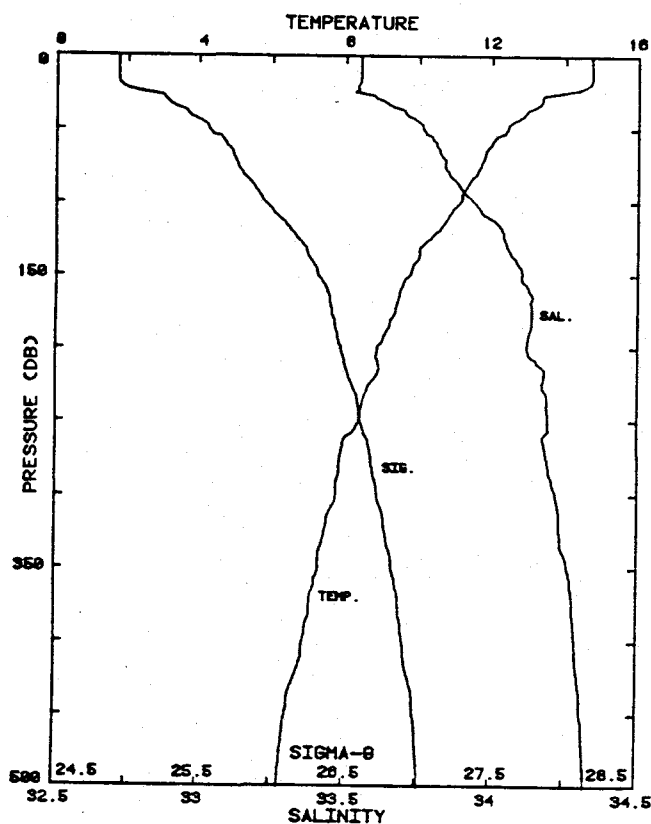
STATION 8 90.35



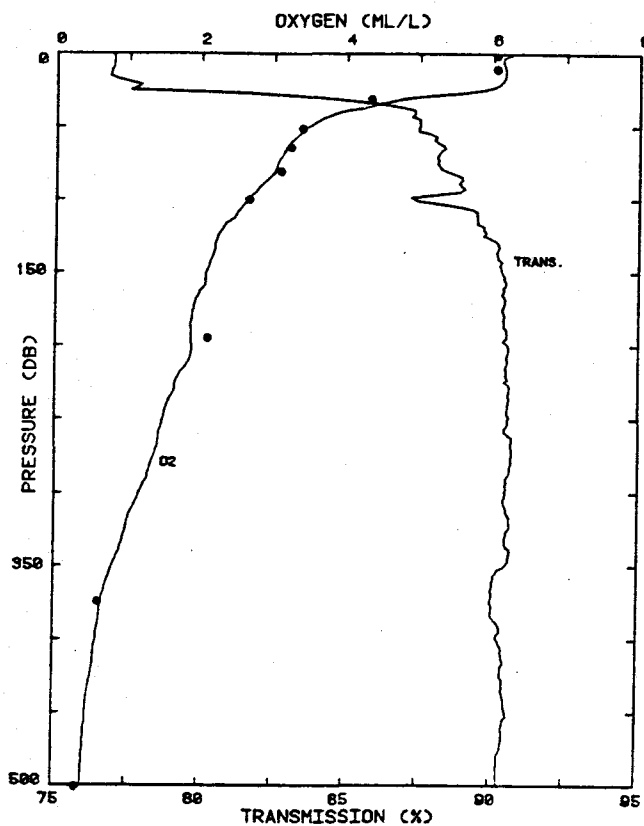
STATION 8 90.35

STA NO 8 90.35 LAT: 33 14.0 N LONG: 118 15.0 W
 07 APR 1983 1024 GMT PROBE 2561 DEPTH 985M
 55.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN	SIGMA	SVA	DELD	O2	TRN
	TEMP		TEMP	THETA				
1	14.991	33.507	14.991	24.843	311.7	0.003	6.13	83.7
10	14.989	33.507	14.987	24.843	311.9	0.031	6.20	83.6
20	14.829	33.509	14.826	24.880	308.7	0.062	6.19	82.0
30	14.658	33.512	14.653	24.919	305.3	0.093	6.04	80.6
40	14.550	33.516	14.544	24.945	303.1	0.123	5.90	80.9
50	13.731	33.553	13.724	25.145	284.3	0.153	5.27	82.9
60	13.103	33.670	13.095	25.363	263.8	0.181	4.55	85.6
70	12.546	33.720	12.537	25.512	249.8	0.206	3.79	87.2
80	12.179	33.765	12.169	25.618	240.0	0.231	3.45	87.4
90	11.793	33.810	11.782	25.725	230.0	0.254	3.22	88.1
100	11.380	33.868	11.368	25.847	218.6	0.277	3.02	88.5
110	11.080	33.928	11.067	25.949	209.2	0.298	2.76	88.9
120	10.857	33.976	10.843	26.026	202.0	0.318	2.56	89.0
130	10.589	34.015	10.573	26.104	194.8	0.338	2.40	89.4
140	10.338	34.066	10.322	26.187	187.0	0.357	2.26	89.7
150	10.192	34.083	10.175	26.226	183.6	0.376	2.17	89.7
175	9.448	34.153	9.428	26.405	166.9	0.420	1.87	89.9
200	9.034	34.115	9.013	26.443	163.6	0.461	1.84	90.4
225	8.606	34.115	8.582	26.511	157.5	0.501	1.94	90.5
250	8.295	34.144	8.269	26.582	151.1	0.540	1.73	90.6
300	7.682	34.182	7.653	26.703	140.2	0.612	1.33	90.6
400	6.918	34.248	6.880	26.864	126.1	0.745	0.77	90.6
500	6.188	34.308	6.144	27.009	113.2	0.865	0.47	90.7
501	6.173	34.310	6.128	27.013	112.8	0.866	0.46	90.7



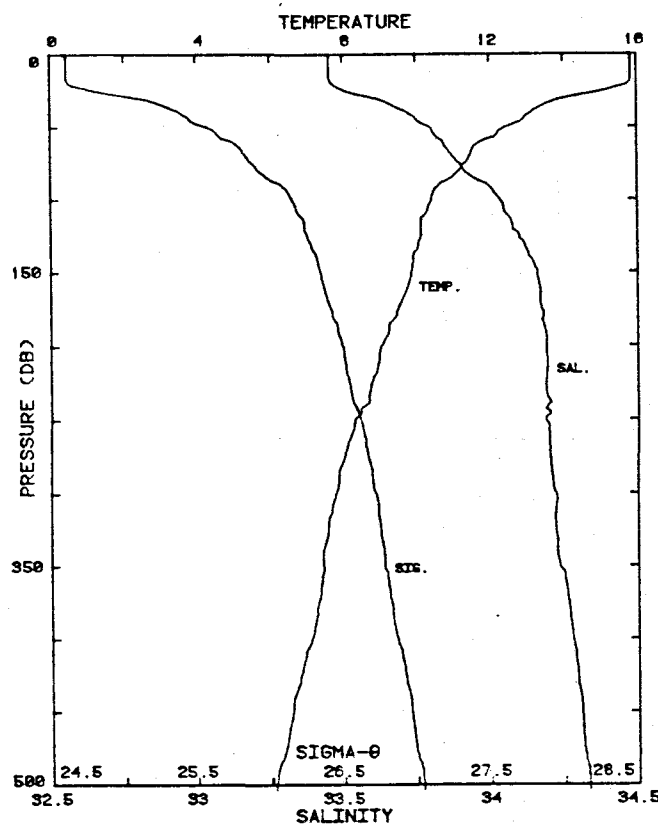
STATION 9 90.32



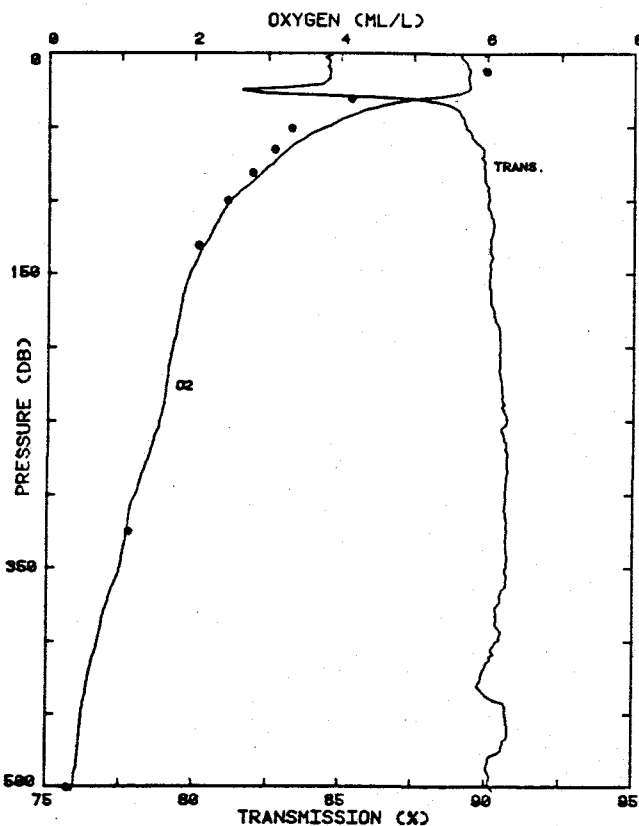
STATION 9 90.32

STA NO 9 90.32 LAT: 33 20.6 N LONG: 118 2.9 W
 07 APR 1983 1227 GMT PROBE 2561 DEPTH 744M
 32.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	14.716	33.551	14.716	24.936	302.8	0.003	6.23	77.0
10	14.721	33.551	14.720	24.935	303.1	0.030	6.16	76.9
20	14.604	33.543	14.601	24.954	301.6	0.061	6.11	77.7
30	13.355	33.616	13.350	25.270	271.8	0.089	4.95	84.0
40	12.885	33.706	12.879	25.434	256.5	0.116	3.93	87.3
50	12.412	33.764	12.406	25.572	243.6	0.141	3.47	87.5
60	11.991	33.809	11.984	25.687	232.9	0.164	3.24	88.0
70	11.782	33.835	11.774	25.746	227.5	0.187	3.11	88.1
80	11.574	33.852	11.564	25.799	222.7	0.210	3.02	88.3
90	11.287	33.893	11.276	25.883	214.9	0.232	2.83	88.9
100	11.116	33.939	11.103	25.950	208.8	0.253	2.65	87.3
110	10.806	33.985	10.793	26.042	200.2	0.273	2.49	89.5
120	10.504	34.038	10.490	26.137	191.4	0.293	2.30	89.7
130	10.081	34.052	10.066	26.220	183.6	0.312	2.19	90.2
140	9.955	34.085	9.939	26.267	179.3	0.330	2.15	90.2
150	9.763	34.104	9.746	26.315	175.0	0.347	2.07	90.3
175	9.357	34.139	9.338	26.410	166.4	0.390	1.90	90.4
200	8.876	34.120	8.855	26.473	160.8	0.431	1.88	90.5
225	8.670	34.174	8.646	26.547	154.2	0.470	1.67	90.4
250	8.388	34.194	8.363	26.606	148.9	0.508	1.49	90.6
300	7.761	34.220	7.731	26.721	138.5	0.579	1.17	90.5
400	6.866	34.290	6.829	26.904	122.3	0.709	0.59	90.2
500	6.225	34.324	6.181	27.017	112.5	0.825	0.40	90.3
501	6.224	34.325	6.180	27.017	112.5	0.826	0.40	90.3



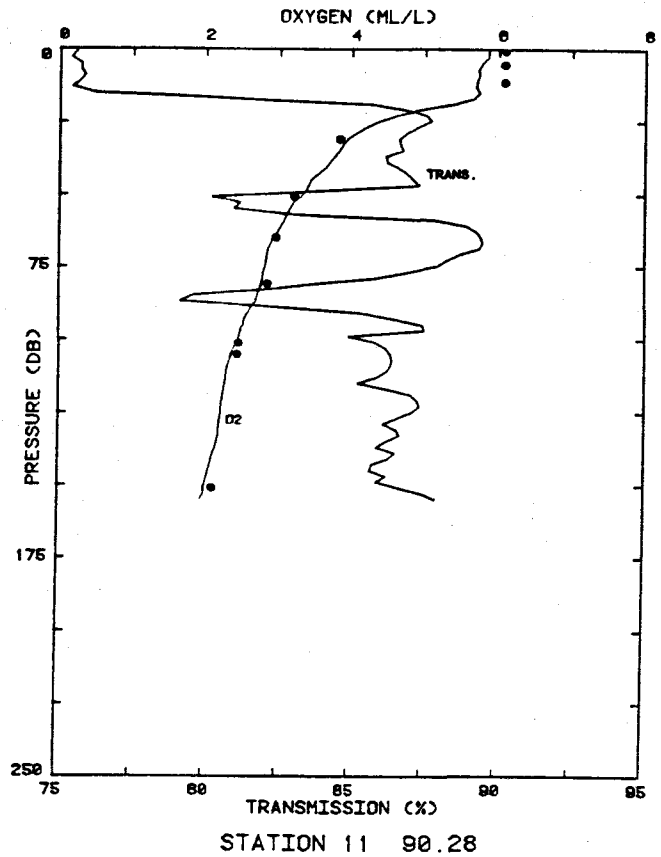
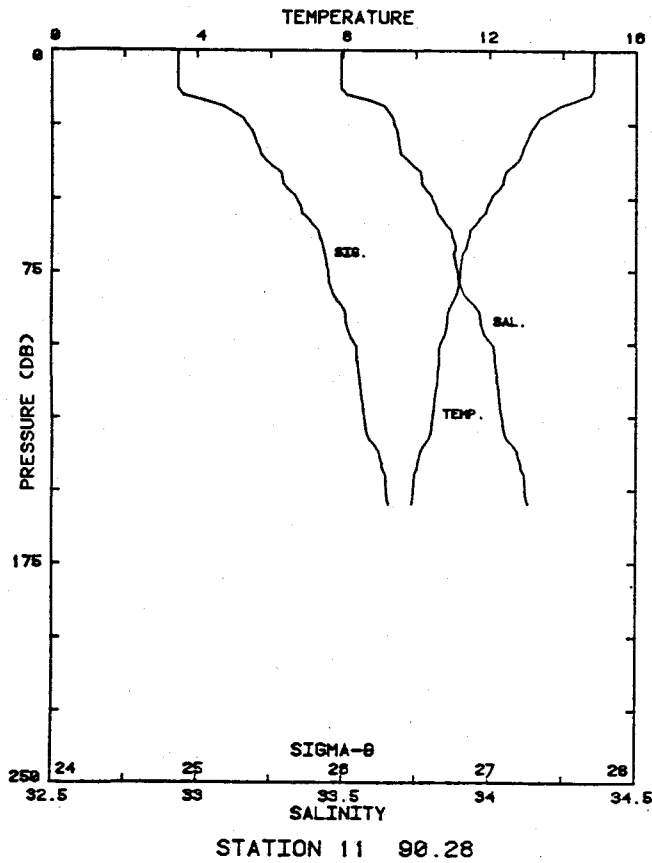
STATION 10 90.30



STATION 10 90.30

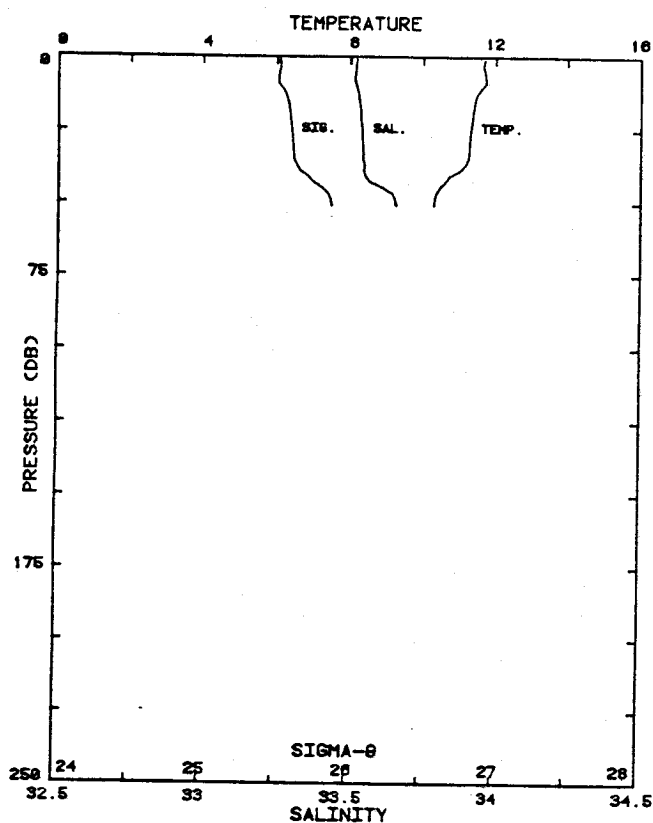
STA NO 10 90.30 LAT: 33 25.0 N LONG: 117 53.5 W
 07 APR 1983 1407 GMT PROBE 2561 DEPTH 627M
 15.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	15.843	33.454	15.843	24.614	333.4	0.003	5.64	84.6
10	15.846	33.454	15.845	24.614	333.8	0.033	5.74	84.6
20	15.789	33.466	15.786	24.636	332.0	0.067	5.75	84.4
30	14.155	33.607	14.151	25.099	288.2	0.098	5.26	86.1
40	13.147	33.722	13.142	25.394	260.3	0.125	4.27	89.1
50	12.480	33.798	12.473	25.584	242.4	0.151	3.80	89.3
60	11.784	33.841	11.777	25.750	226.8	0.174	3.42	89.6
70	11.468	33.876	11.459	25.837	218.9	0.196	3.16	89.8
80	11.179	33.914	11.169	25.919	211.2	0.218	2.93	89.9
90	10.632	33.993	10.622	26.078	196.3	0.238	2.71	90.0
100	10.414	34.033	10.402	26.147	189.9	0.258	2.49	90.1
110	10.257	34.054	10.244	26.192	185.9	0.276	2.36	90.1
120	10.128	34.079	10.115	26.233	182.2	0.295	2.25	90.2
130	10.057	34.115	10.042	26.274	178.6	0.313	2.14	90.1
140	9.906	34.136	9.890	26.316	174.7	0.330	2.04	90.2
150	9.862	34.159	9.845	26.341	172.5	0.348	1.94	90.1
175	9.505	34.175	9.486	26.413	166.1	0.390	1.81	90.2
200	9.057	34.190	9.035	26.499	158.4	0.431	1.71	90.5
225	8.789	34.188	8.765	26.540	154.9	0.470	1.62	90.5
250	8.305	34.187	8.280	26.614	148.1	0.508	1.53	90.7
300	7.783	34.221	7.753	26.719	138.7	0.580	1.22	90.7
400	7.102	34.278	7.064	26.862	126.4	0.712	0.69	90.4
500	6.108	34.332	6.064	27.038	110.3	0.830	0.38	90.2
503	6.097	34.333	6.052	27.040	110.1	0.834	0.37	90.3



STA NO 11 90.28 LAT: 33 28.5 N LONG:117 46.7 W
 07 APR 1983 1539 GMT PROBE 2561 DEPTH 158M
 3.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD	O2	TRN
1	14.835	33.493	14.834	24.866	309.5	0.003	5.86	75.6
10	14.837	33.493	14.835	24.865	309.8	0.031	5.72	75.8
20	13.774	33.650	13.771	25.211	277.2	0.061	5.18	86.3
30	13.024	33.690	13.020	25.394	260.1	0.088	4.00	86.8
40	12.534	33.753	12.528	25.539	246.5	0.113	3.66	86.4
50	12.039	33.805	12.033	25.675	233.8	0.137	3.32	82.1
60	11.546	33.860	11.538	25.810	221.2	0.160	3.04	88.4
70	11.257	33.880	11.249	25.878	214.9	0.182	2.83	89.0
80	11.162	33.902	11.152	25.913	211.9	0.203	2.76	84.8
90	10.863	33.967	10.852	26.017	202.1	0.224	2.60	84.0
100	10.673	34.007	10.661	26.082	196.1	0.244	2.44	85.3
110	10.589	34.024	10.576	26.110	193.7	0.263	2.29	86.3
120	10.503	34.036	10.489	26.135	191.6	0.283	2.23	87.2
130	10.409	34.050	10.393	26.163	189.2	0.302	2.19	86.3
140	10.062	34.103	10.046	26.263	179.8	0.320	2.10	86.4
150	9.934	34.122	9.917	26.300	176.4	0.338	2.00	86.3
155	9.876	34.132	9.859	26.318	174.9	0.347	1.95	87.9



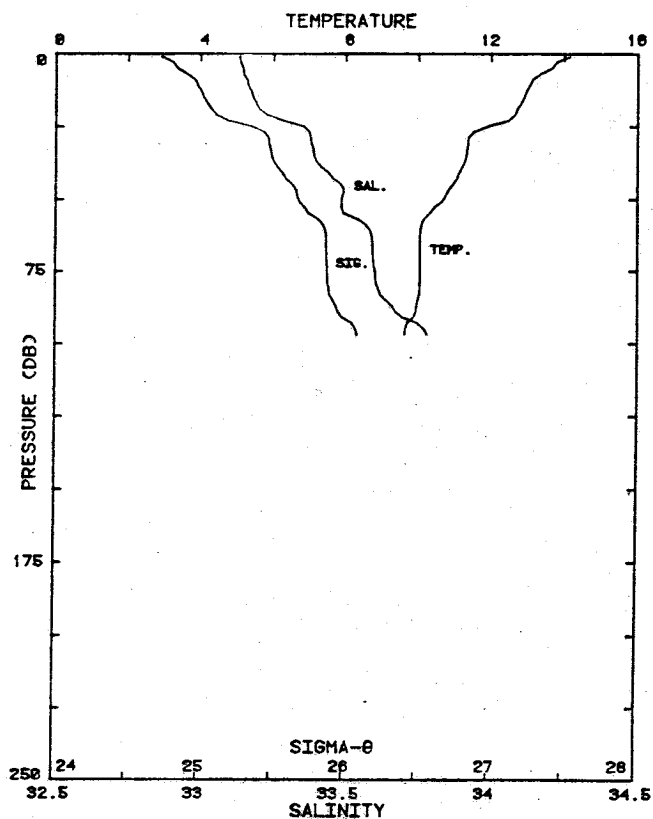
STATION 12 PR1

STA NO 12 PR1 LAT: 34 45.1 N LONG:120 42.1 W
 9 APR 1983 2055 GMT PROBE 2561 DEPTH 55M
 6.5 KM FROM SHORE

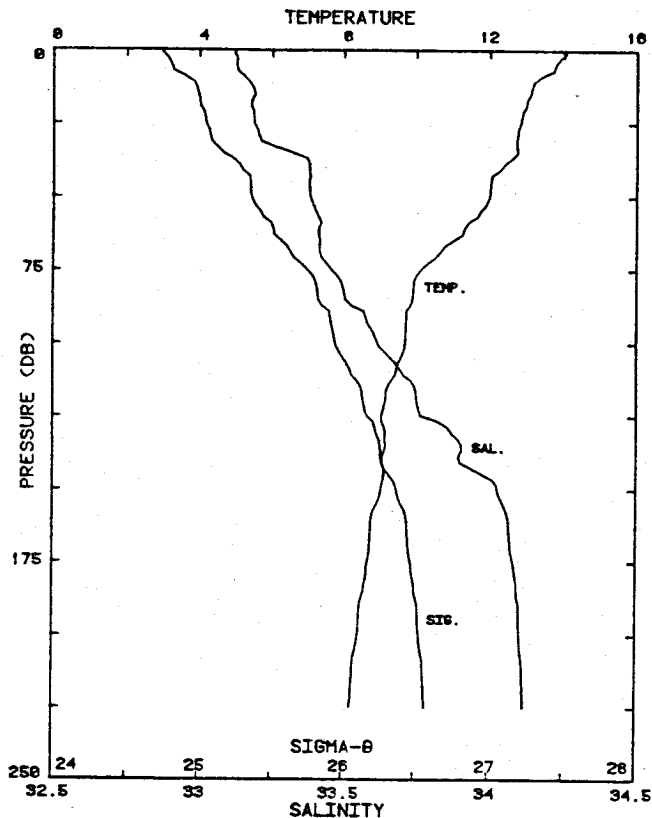
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.684	33.521	11.684	25.520	247.3	0.002
10	11.652	33.521	11.651	25.526	246.9	0.025
20	11.360	33.536	11.357	25.592	240.9	0.049
30	11.275	33.543	11.272	25.612	239.1	0.073
40	10.877	33.550	10.872	25.689	232.0	0.097
50	10.311	33.658	10.305	25.872	214.8	0.119
51	10.304	33.660	10.299	25.875	214.6	0.121

STA NO 13 PR2 LAT: 34 45.0 N LONG:120 48.0 W
 9 APR 1983 2138 GMT PROBE 2561 DEPTH 98M
 15.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.150	33.131	14.150	24.732	322.2	0.003
10	13.091	33.159	13.090	24.970	299.8	0.031
20	12.695	33.212	12.692	25.089	288.7	0.061
30	11.373	33.379	11.369	25.467	252.9	0.087
40	11.156	33.429	11.151	25.546	245.7	0.112
50	10.691	33.487	10.685	25.674	233.7	0.134
60	10.074	33.578	10.067	25.851	217.0	0.159
70	10.049	33.595	10.041	25.869	215.6	0.180
80	10.046	33.610	10.037	25.881	214.7	0.202
90	9.913	33.685	9.903	25.962	207.2	0.223
97	9.635	33.781	9.624	26.084	195.7	0.237



STATION 13 PR2

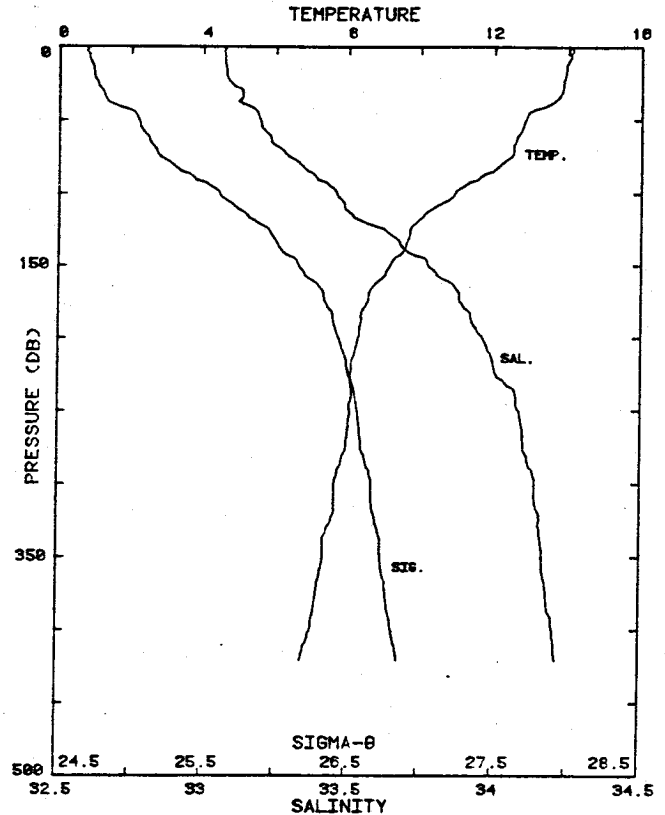


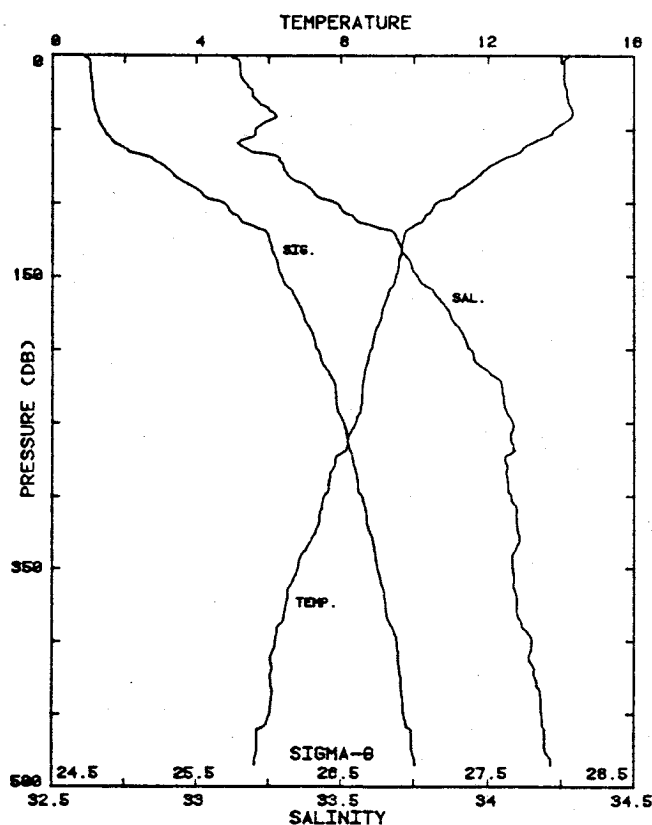
STA NO 14 PR3 LAT: 34 45.0 N LONG: 120 54.0 W
 9 APR 1983 2226 GMT PROBE 2561 DEPTH 229M
 24.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.043	33.118	14.043	24.744	321.0	0.003
10	13.286	33.161	13.285	24.932	303.4	0.031
20	12.930	33.181	12.927	25.019	295.4	0.061
30	12.728	33.207	12.724	25.079	290.0	0.091
40	12.346	33.380	12.340	25.286	270.5	0.119
50	11.990	33.383	11.984	25.357	264.0	0.145
60	11.361	33.417	11.353	25.500	250.6	0.171
70	10.586	33.420	10.578	25.641	237.3	0.195
80	9.943	33.495	9.934	25.809	221.5	0.218
90	9.742	33.575	9.732	25.905	212.6	0.240
100	9.719	33.620	9.708	25.944	209.1	0.261
110	9.462	33.703	9.450	26.051	199.1	0.282
120	9.165	33.756	9.152	26.140	190.7	0.301
130	9.165	33.867	9.151	26.227	182.7	0.320
140	9.094	33.900	9.079	26.265	179.3	0.338
150	9.060	34.029	9.043	26.371	169.4	0.355
175	8.700	34.083	8.681	26.471	160.4	0.396
200	8.441	34.105	8.421	26.528	155.3	0.435
225	8.218	34.118	8.195	26.573	151.4	0.474

STA NO 15 PR4 LAT: 34 45.0 N LONG: 121 0.0 W
 9 APR 1983 2318 GMT PROBE 2561 DEPTH 422M
 33.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.099	33.073	14.099	24.699	325.4	0.003
10	14.000	33.073	13.998	24.719	323.7	0.033
20	13.905	33.079	13.903	24.744	321.7	0.065
30	13.835	33.132	13.831	24.799	316.6	0.097
40	13.439	33.147	13.434	24.892	308.1	0.128
50	12.829	33.194	12.822	25.050	293.2	0.158
60	12.651	33.224	12.643	25.107	288.0	0.187
70	12.507	33.268	12.498	25.170	282.3	0.216
80	12.181	33.332	12.171	25.282	271.9	0.243
90	11.575	33.390	11.564	25.440	257.0	0.270
100	10.936	33.460	10.924	25.611	240.9	0.295
110	10.389	33.488	10.376	25.728	229.9	0.318
120	9.901	33.554	9.888	25.863	217.2	0.341
130	9.695	33.656	9.680	25.977	206.6	0.362
140	9.531	33.703	9.516	26.041	200.7	0.382
150	9.175	33.777	9.159	26.156	189.9	0.401
175	8.559	33.884	8.541	26.337	173.0	0.446
200	8.303	33.963	8.282	26.438	163.8	0.488
225	8.090	34.008	8.068	26.506	157.7	0.528
250	8.072	34.087	8.047	26.570	152.1	0.567
300	7.665	34.142	7.636	26.674	142.9	0.641
400	7.015	34.206	6.978	26.818	130.5	0.778
421	6.753	34.217	6.714	26.862	126.5	0.805





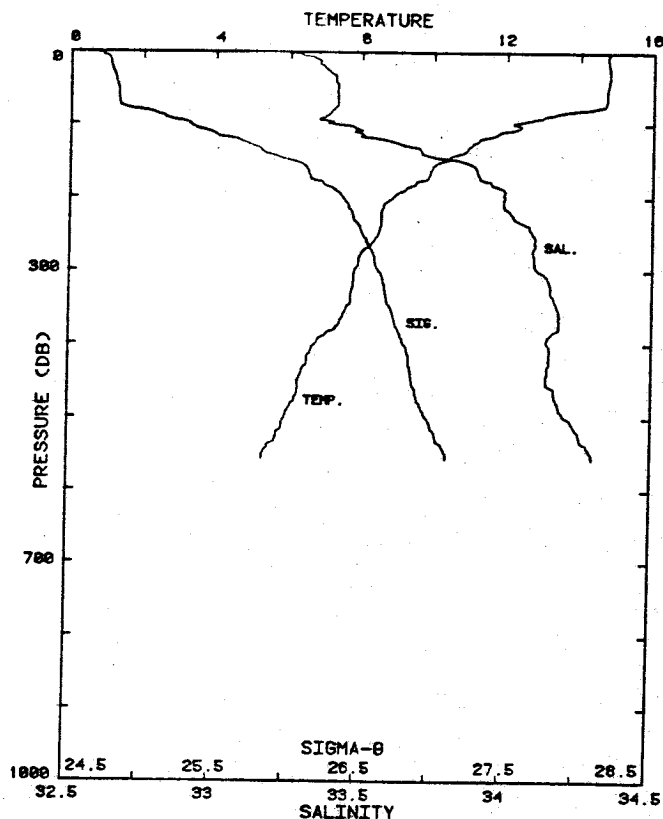
STATION 16 PR5

STA NO 16 PR5 LAT: 34 45.0 N LONG:121 12.0 W
 10 APR 1983 0043 GMT PROBE 2561 DEPTH 495M
 52.0 KM FROM SHORE

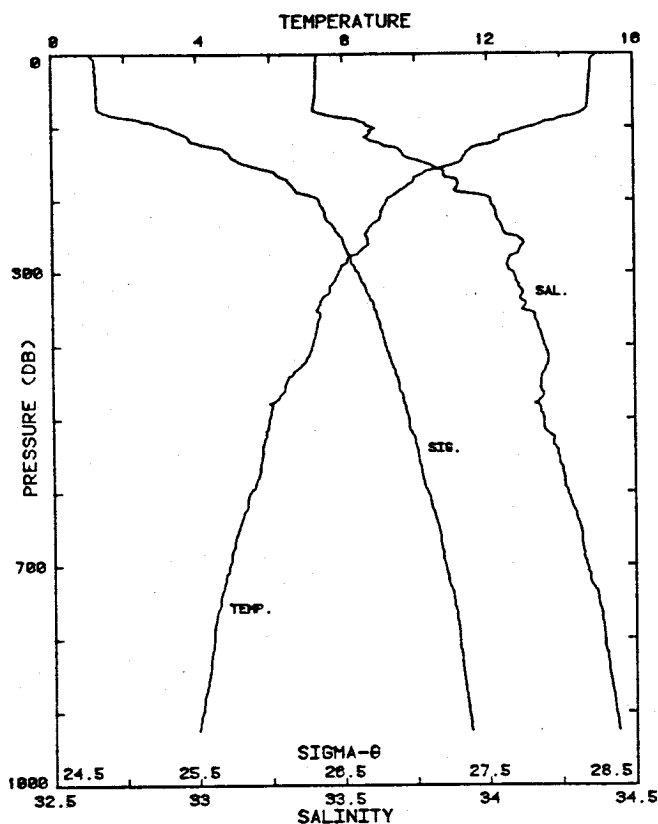
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.163	33.125	14.163	24.725	322.9	0.003
10	14.076	33.151	14.074	24.764	319.5	0.032
20	14.101	33.176	14.098	24.778	318.4	0.064
30	14.187	33.207	14.183	24.784	318.1	0.096
40	14.308	33.272	14.302	24.809	316.0	0.127
50	13.812	33.201	13.805	24.858	311.6	0.159
60	13.128	33.149	13.120	24.956	302.5	0.190
70	12.418	33.287	12.409	25.202	279.3	0.219
80	11.800	33.314	11.790	25.340	266.4	0.246
90	11.287	33.393	11.276	25.495	251.8	0.272
100	10.600	33.482	10.588	25.687	233.6	0.297
110	10.269	33.544	10.257	25.792	223.8	0.319
120	9.748	33.679	9.734	25.986	205.5	0.341
130	9.671	33.703	9.657	26.017	202.7	0.361
140	9.577	33.736	9.562	26.058	199.0	0.382
150	9.499	33.760	9.483	26.090	196.2	0.401
175	9.116	33.868	9.097	26.237	182.7	0.449
200	8.822	33.938	8.801	26.338	173.5	0.493
225	8.582	34.046	8.559	26.461	162.2	0.535
250	8.392	34.083	8.366	26.520	157.1	0.575
300	7.533	34.078	7.503	26.643	145.8	0.651
400	6.167	34.149	6.132	26.885	123.4	0.786
485	5.600	34.214	5.560	27.008	112.4	0.888

STA NO 17 PR6 LAT: 34 45.0 N LONG:121 24.0 W
 10 APR 1983 0212 GMT PROBE 2561 DEPTH 584M
 70.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.784	33.258	14.784	24.696	325.6	0.003
10	14.750	33.343	14.749	24.769	319.0	0.032
20	14.783	33.365	14.780	24.779	318.3	0.064
30	14.804	33.392	14.800	24.795	317.1	0.096
40	14.783	33.405	14.777	24.811	315.9	0.127
50	14.747	33.413	14.740	24.825	314.8	0.159
60	14.720	33.414	14.712	24.832	314.5	0.190
70	14.711	33.414	14.700	24.834	314.6	0.222
80	14.102	33.401	14.090	24.953	303.5	0.253
90	13.010	33.371	12.998	25.152	284.7	0.282
100	12.255	33.400	12.242	25.321	268.7	0.310
110	11.990	33.489	11.976	25.440	257.6	0.337
120	11.330	33.554	11.315	25.613	241.3	0.362
130	11.027	33.656	11.011	25.748	228.7	0.385
140	10.800	33.711	10.783	25.830	221.0	0.407
150	10.381	33.841	10.364	26.005	204.6	0.429
175	9.855	33.910	9.836	26.149	191.3	0.477
200	8.907	33.997	8.886	26.372	170.4	0.522
225	8.571	34.023	8.548	26.445	163.7	0.564
250	8.487	34.093	8.461	26.512	157.8	0.604
300	7.830	34.112	7.801	26.627	147.5	0.680
400	6.760	34.145	6.724	26.804	131.6	0.820
500	5.940	34.209	5.897	26.962	117.2	0.945
557	5.335	34.302	5.289	27.110	103.4	1.008



STATION 17 PR6



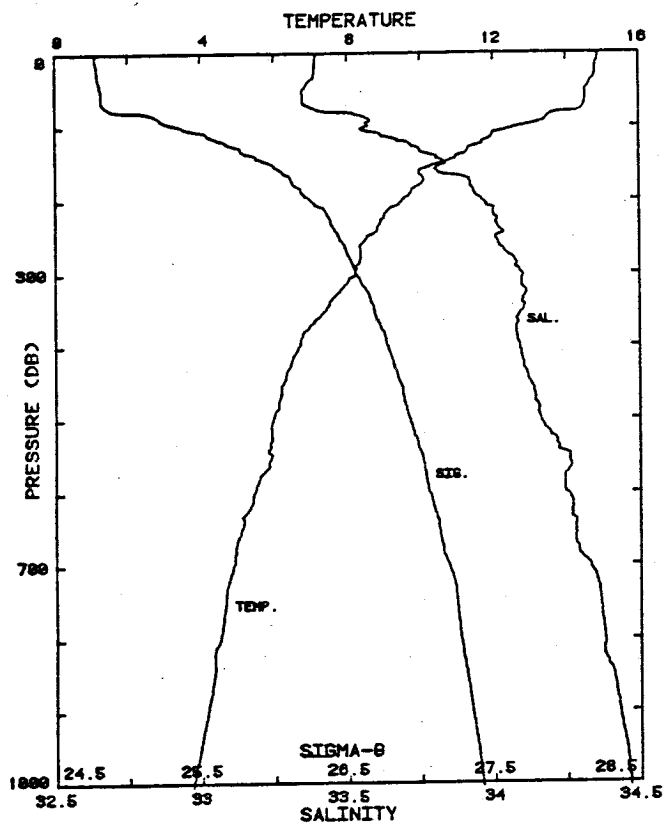
STATION 18 PR7

STA NO 18 PR7 LAT: 34 45.0 N LONG:121 36.0 W
 10 APR 1983 0338 GMT PROBE 2561 DEPTH 932M
 88.4 KM FROM SHORE

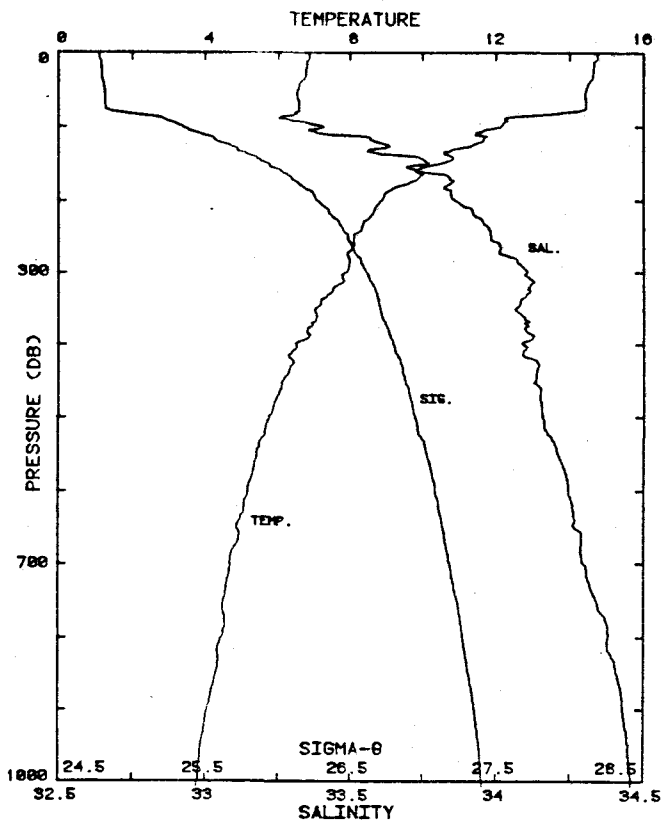
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.994	33.412	14.994	24.769	318.7	0.003
10	14.850	33.408	14.849	24.797	316.3	0.032
20	14.842	33.408	14.839	24.800	316.3	0.063
30	14.818	33.408	14.814	24.805	316.2	0.095
40	14.802	33.407	14.797	24.808	316.2	0.127
50	14.785	33.405	14.778	24.811	316.2	0.158
60	14.773	33.403	14.764	24.812	316.4	0.190
70	14.750	33.399	14.740	24.814	316.5	0.222
80	14.582	33.425	14.571	24.870	311.5	0.253
90	13.889	33.554	13.877	25.115	288.4	0.283
100	13.191	33.607	13.178	25.298	271.1	0.311
110	12.535	33.590	12.521	25.414	260.2	0.338
120	12.257	33.617	12.241	25.489	253.3	0.363
130	11.540	33.694	11.524	25.684	234.9	0.388
140	11.343	33.714	11.326	25.735	230.2	0.411
150	11.137	33.793	11.119	25.834	221.0	0.434
175	9.939	33.896	9.919	26.124	193.7	0.485
200	9.206	34.010	9.185	26.334	174.1	0.531
225	9.021	34.031	8.997	26.380	170.1	0.574
250	8.645	34.084	8.618	26.482	160.8	0.615
300	7.866	34.086	7.836	26.601	150.0	0.693
400	7.133	34.192	7.096	26.790	133.2	0.834
500	5.945	34.190	5.902	26.946	118.8	0.959
600	5.415	34.271	5.365	27.076	107.2	1.073
800	4.399	34.393	4.337	27.290	87.7	1.265
925	3.971	34.441	3.902	27.374	80.1	1.370

STA NO 19 PR8 LAT: 34 45.0 N LONG:121 47.9 W
 10 APR 1983 0525 GMT PROBE 2561 DEPTH 2364M
 107.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.880	33.392	14.879	24.778	317.8	0.003
10	14.865	33.390	14.863	24.781	317.9	0.032
20	14.809	33.388	14.806	24.791	317.2	0.064
30	14.790	33.385	14.785	24.794	317.2	0.095
40	14.658	33.365	14.652	24.806	316.3	0.127
50	14.526	33.346	14.519	24.820	315.3	0.159
60	14.525	33.347	14.516	24.822	315.4	0.190
70	14.503	33.355	14.493	24.833	314.7	0.222
80	14.036	33.469	14.024	25.018	297.3	0.253
90	13.446	33.575	13.433	25.222	278.1	0.281
100	12.706	33.561	12.692	25.358	265.3	0.308
110	11.972	33.610	11.958	25.538	248.3	0.334
120	11.717	33.687	11.702	25.645	238.4	0.359
130	11.302	33.746	11.286	25.767	226.9	0.382
140	11.005	33.802	10.988	25.865	217.8	0.404
150	10.549	33.834	10.531	25.971	207.9	0.426
175	10.073	33.919	10.053	26.119	194.2	0.476
200	9.517	33.961	9.495	26.245	182.6	0.523
225	8.986	34.012	8.962	26.371	170.9	0.567
250	8.519	34.006	8.493	26.440	164.7	0.609
300	8.223	34.098	8.193	26.557	154.3	0.688
400	6.662	34.090	6.625	26.774	134.3	0.831
500	5.944	34.160	5.900	26.923	120.9	0.958
600	5.428	34.248	5.378	27.056	109.1	1.073
800	4.490	34.378	4.428	27.268	89.9	1.269
1000	3.737	34.463	3.663	27.415	76.4	1.434
1005	3.728	34.464	3.654	27.417	76.3	1.438



STATION 19 PR8



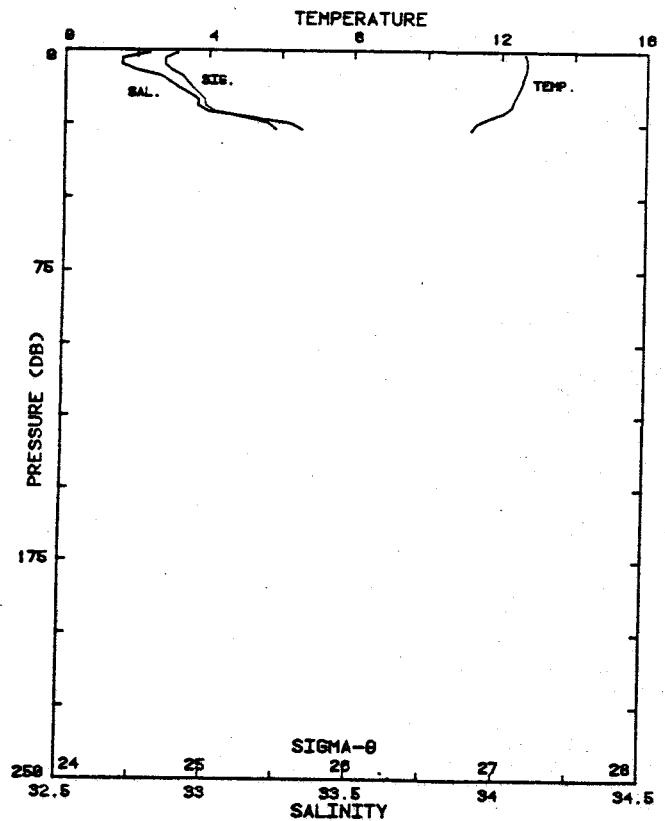
STATION 20 PR9

STA NO 20 PR9 LAT: 34 45.1 N LONG: 122 0.0 W
 10 APR 1983 0707 GMT PROBE 2561 DEPTH 4029M
 125.0 KM FROM SHORE

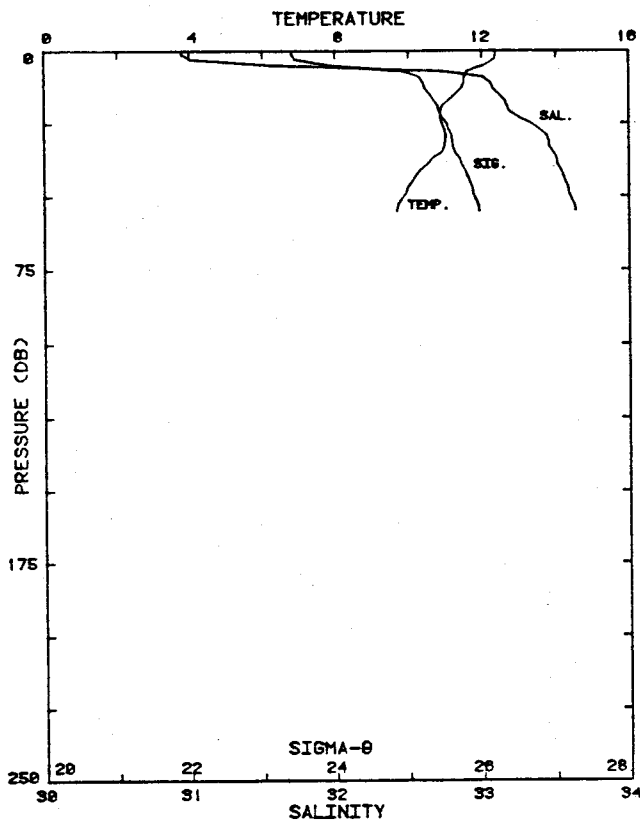
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	14.754	33.358	14.754	24.780	317.7	0.003
10	14.735	33.356	14.734	24.782	317.7	0.032
20	14.656	33.347	14.653	24.793	317.0	0.063
30	14.637	33.345	14.632	24.795	317.1	0.095
40	14.539	33.328	14.533	24.803	316.6	0.127
50	14.450	33.317	14.443	24.814	315.9	0.159
60	14.430	33.315	14.421	24.817	315.9	0.190
70	14.444	33.320	14.434	24.819	316.0	0.222
80	14.079	33.315	14.067	24.891	309.3	0.253
90	12.252	33.271	12.240	25.222	277.9	0.282
100	12.133	33.408	12.120	25.350	265.9	0.310
110	11.460	33.407	11.447	25.475	254.2	0.336
120	11.633	33.587	11.618	25.583	244.2	0.360
130	10.942	33.595	10.926	25.715	231.7	0.384
140	10.782	33.704	10.765	25.828	221.2	0.407
150	10.506	33.768	10.489	25.927	212.0	0.429
175	9.680	33.853	9.660	26.134	192.7	0.479
200	8.875	33.862	8.854	26.271	179.9	0.526
225	8.524	33.945	8.501	26.390	168.9	0.569
250	8.104	33.982	8.079	26.483	160.3	0.610
300	7.888	34.106	7.858	26.614	148.8	0.688
400	6.486	34.090	6.451	26.797	131.9	0.828
500	5.737	34.157	5.695	26.947	118.5	0.952
600	5.163	34.247	5.114	27.087	105.8	1.064
800	4.446	34.381	4.384	27.275	89.2	1.258
1000	3.779	34.458	3.705	27.407	77.2	1.423
1007	3.766	34.459	3.691	27.409	77.1	1.428

STA NO 21 HM1 LAT: 37 24.5 N LONG: 122 28.2 W
 10 APR 1983 2221 GMT PROBE 2561 DEPTH 30M
 3.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.624	32.791	12.624	24.777	318.0	0.003
10	12.570	32.849	12.569	24.832	312.9	0.032
20	12.169	32.977	12.167	25.008	296.4	0.063
27	11.165	33.320	11.161	25.459	253.6	0.082



STATION 21 HM1



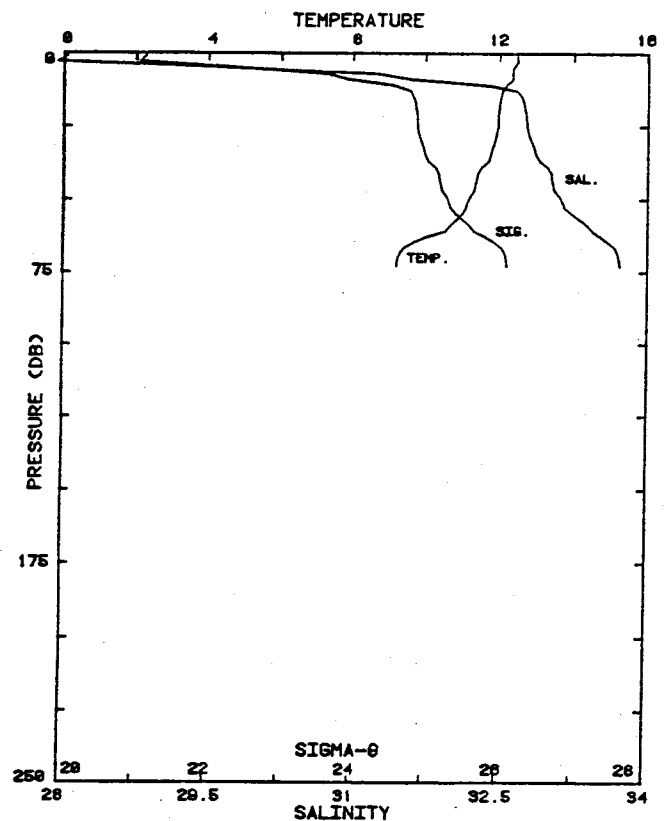
STATION 22 HM2

STA NO 22 HM2 LAT: 37 23.7 N LONG: 122 33.4 W
 10 APR 1983 2301 GMT PROBE 2561 DEPTH 60M
 11.3 KM FROM SHORE

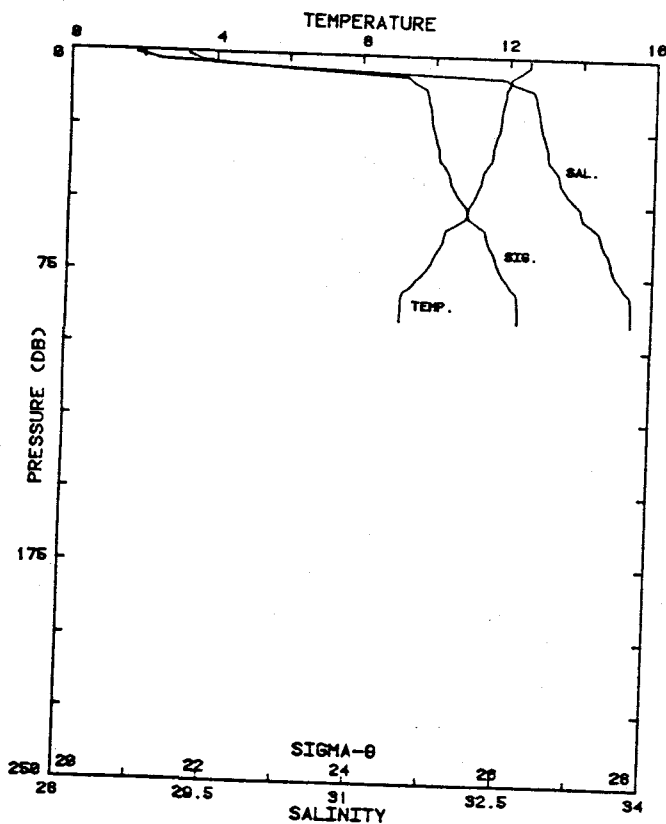
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.373	30.949	12.373	23.401	449.1	0.004
10	11.516	33.033	11.515	25.173	280.5	0.038
20	10.884	33.179	10.882	25.400	259.1	0.065
30	10.999	33.445	10.995	25.587	241.6	0.089
40	10.419	33.523	10.415	25.749	226.4	0.113
50	9.867	33.597	9.862	25.900	212.1	0.135
55	9.681	33.633	9.675	25.960	206.6	0.145

STA NO 23 HM3 LAT: 37 22.9 N LONG: 122 39.1 W
 10 APR 1983 2345 GMT PROBE 2561 DEPTH 80M
 19.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.473	28.040	12.473	21.138	665.7	0.007
10	12.249	31.998	12.248	24.236	369.7	0.054
20	11.979	32.766	11.977	24.881	308.5	0.086
30	11.876	32.825	11.872	24.946	302.6	0.117
40	11.467	33.007	11.462	25.162	282.2	0.146
50	11.181	33.127	11.175	25.307	268.7	0.174
60	10.619	33.417	10.612	25.632	237.9	0.199
70	9.263	33.714	9.256	26.091	194.3	0.220
73	9.217	33.728	9.209	26.110	192.7	0.226



STATION 23 HM3



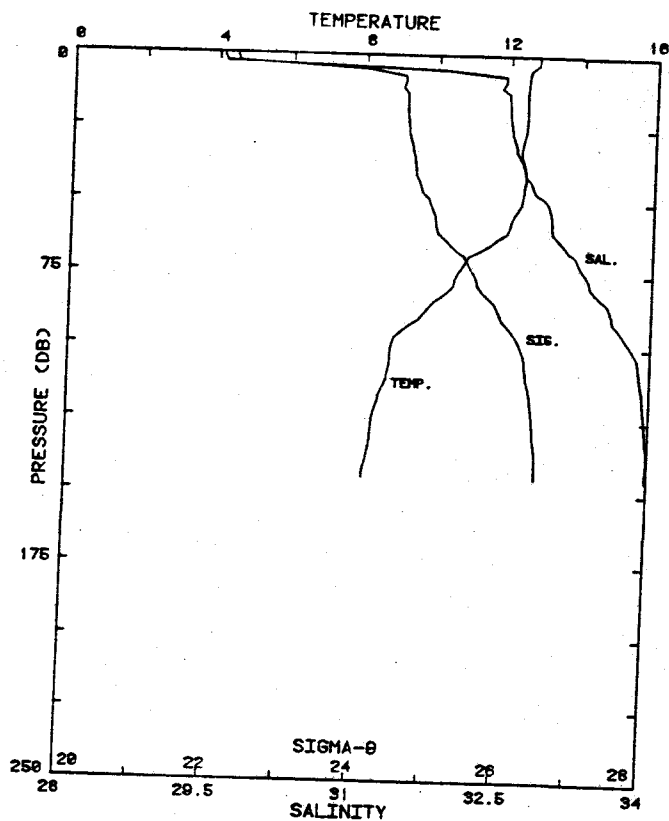
STATION 24 HM4

STA NO 24 HM4 LAT: 37 22.2 N LONG: 122 44.9 W
 11 APR 1983 0030 GMT PROBE 2561 DEPTH 94M
 28.5 KM FROM SHORE

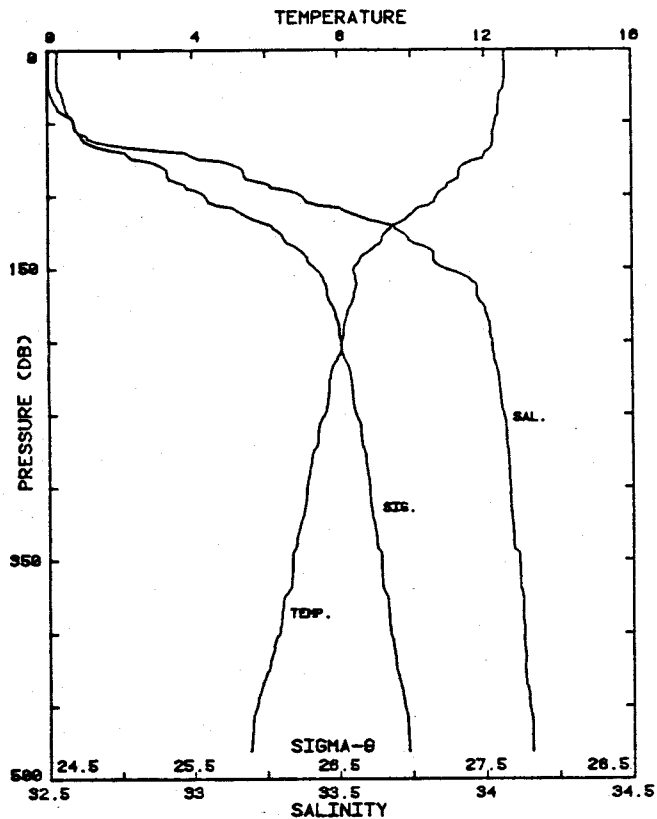
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.555	28.678	12.555	21.615	619.9	0.006
10	11.952	32.648	11.950	24.794	316.5	0.047
20	11.788	32.814	11.785	24.953	301.6	0.078
30	11.607	32.893	11.603	25.048	292.8	0.108
40	11.311	33.022	11.306	25.202	278.4	0.136
50	10.998	33.214	10.992	25.408	259.0	0.163
60	10.322	33.451	10.315	25.710	230.5	0.188
70	9.977	33.570	9.969	25.861	216.3	0.211
80	9.308	33.742	9.300	26.106	193.2	0.231
90	9.138	33.788	9.128	26.169	187.3	0.250
91	9.137	33.788	9.127	26.170	187.3	0.252

STA NO 25 HM5 LAT: 37 21.4 N LONG: 122 50.6 W
 11 APR 1983 0116 GMT PROBE 2561 DEPTH 149M
 37.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.777	29.545	12.777	22.242	559.9	0.006
10	12.488	32.431	12.486	24.525	342.2	0.044
20	12.474	32.501	12.471	24.582	337.0	0.078
30	12.393	32.563	12.389	24.646	331.1	0.111
40	12.486	32.674	12.480	24.714	324.9	0.144
50	12.386	32.899	12.379	24.907	306.8	0.176
60	12.032	32.966	12.025	25.026	295.7	0.206
70	10.892	33.223	10.883	25.434	257.0	0.233
80	10.468	33.388	10.458	25.637	237.9	0.258
90	9.647	33.599	9.637	25.939	209.3	0.280
100	8.867	33.807	8.856	26.228	182.0	0.300
110	8.774	33.897	8.762	26.312	174.1	0.317
120	8.499	33.937	8.486	26.387	167.2	0.334
130	8.360	33.967	8.347	26.431	163.1	0.351
140	8.222	33.988	8.208	26.469	159.7	0.367
145	8.165	33.985	8.150	26.475	159.2	0.375



STATION 25 HM5

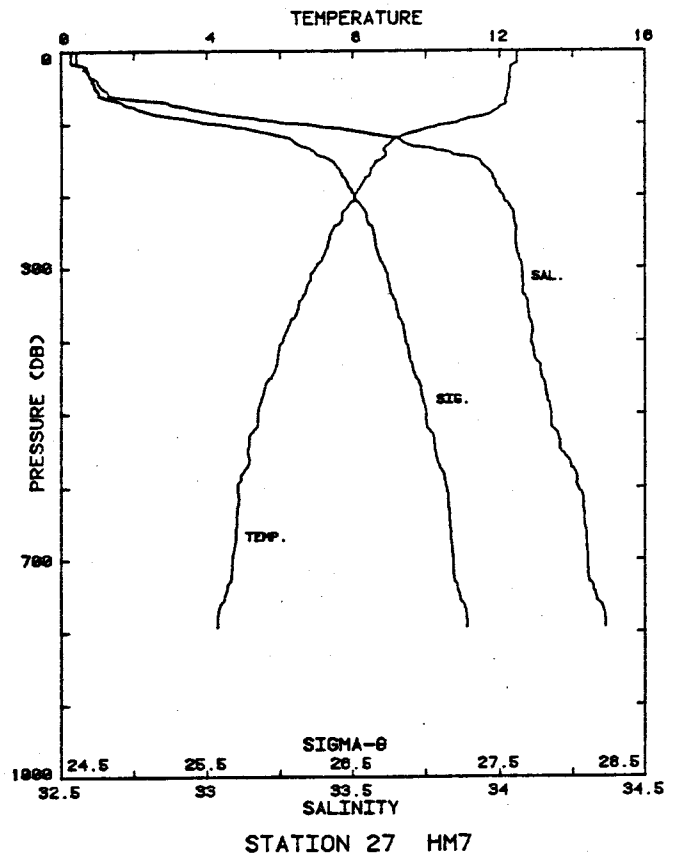


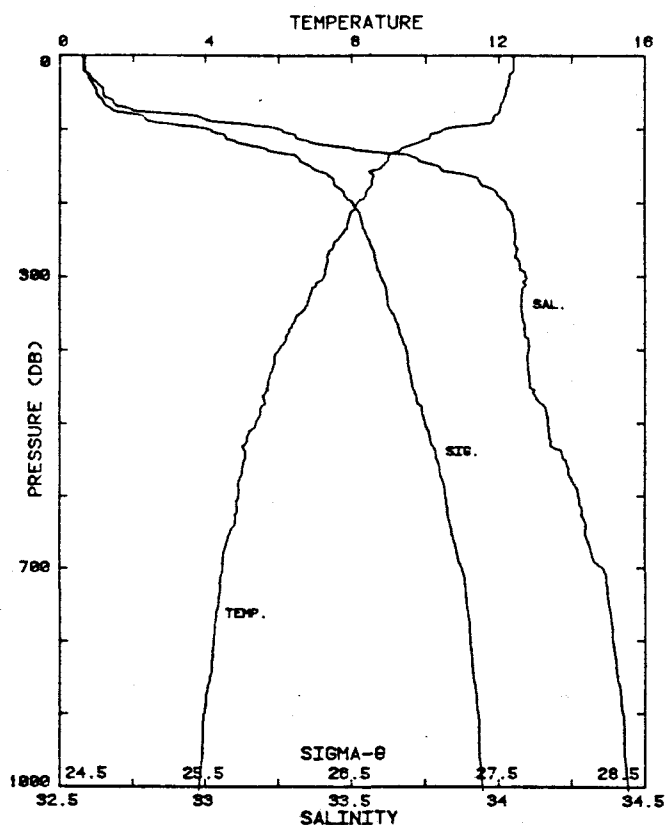
STA NO 26 HM6 LAT: 37 20.6 N LONG:122 56.8 W
11 APR 1983 0205 GMT PROBE 2561 DEPTH 502M
46.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.561	32.504	12.561	24.567	337.9	0.003
10	12.567	32.504	12.565	24.567	338.2	0.034
20	12.561	32.504	12.558	24.568	338.3	0.068
30	12.427	32.512	12.424	24.600	335.6	0.101
40	12.385	32.536	12.380	24.626	333.3	0.135
50	12.295	32.590	12.289	24.686	327.9	0.168
60	12.227	32.636	12.220	24.735	323.4	0.200
70	12.081	32.926	12.072	24.986	299.7	0.232
80	11.417	33.147	11.407	25.281	271.9	0.261
90	11.188	33.202	11.177	25.365	264.1	0.288
100	10.705	33.367	10.694	25.579	243.9	0.313
110	10.134	33.514	10.121	25.792	223.8	0.337
120	9.582	33.669	9.569	26.005	203.7	0.358
130	9.195	33.741	9.181	26.124	192.4	0.378
140	8.760	33.824	8.745	26.258	179.8	0.396
150	8.423	33.860	8.407	26.338	172.3	0.414
175	8.337	33.993	8.319	26.456	161.6	0.455
200	8.089	34.025	8.069	26.519	156.0	0.495
225	7.763	34.047	7.740	26.584	150.2	0.533
250	7.615	34.064	7.591	26.620	147.2	0.571
300	7.094	34.084	7.066	26.709	139.2	0.642
400	6.324	34.129	6.288	26.849	126.9	0.775
481	5.520	34.157	5.480	26.973	115.5	0.872

STA NO 27 HM7 LAT: 37 19.7 N LONG:123 3.6 W
11 APR 1983 0309 GMT PROBE 2561 DEPTH 805M
56.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.492	32.537	12.492	24.606	334.2	0.003
10	12.473	32.534	12.472	24.607	334.3	0.033
20	12.359	32.569	12.357	24.657	329.9	0.067
30	12.279	32.593	12.275	24.690	326.9	0.100
40	12.275	32.623	12.270	24.715	324.8	0.132
50	12.243	32.638	12.237	24.733	323.4	0.165
60	12.207	32.664	12.200	24.759	321.1	0.197
70	12.168	32.840	12.159	24.903	307.6	0.228
80	11.955	32.951	11.945	25.029	295.9	0.258
90	11.485	33.100	11.474	25.232	276.8	0.287
100	10.699	33.296	10.687	25.525	249.0	0.314
110	9.844	33.499	9.831	25.829	220.2	0.337
120	9.180	33.652	9.167	26.057	198.6	0.358
130	8.954	33.699	8.940	26.130	191.9	0.377
140	8.902	33.831	8.887	26.241	181.5	0.396
150	8.755	33.926	8.739	26.339	172.4	0.414
175	8.356	33.975	8.338	26.439	163.3	0.455
200	8.054	34.012	8.034	26.514	156.5	0.495
225	7.711	34.048	7.689	26.593	149.3	0.534
250	7.415	34.056	7.391	26.641	145.0	0.571
300	6.975	34.077	6.948	26.720	138.1	0.642
400	6.066	34.108	6.031	26.866	125.1	0.773
500	5.384	34.177	5.343	27.004	112.6	0.892
600	4.839	34.270	4.792	27.142	100.1	0.999
793	4.284	34.364	4.223	27.279	88.4	1.183





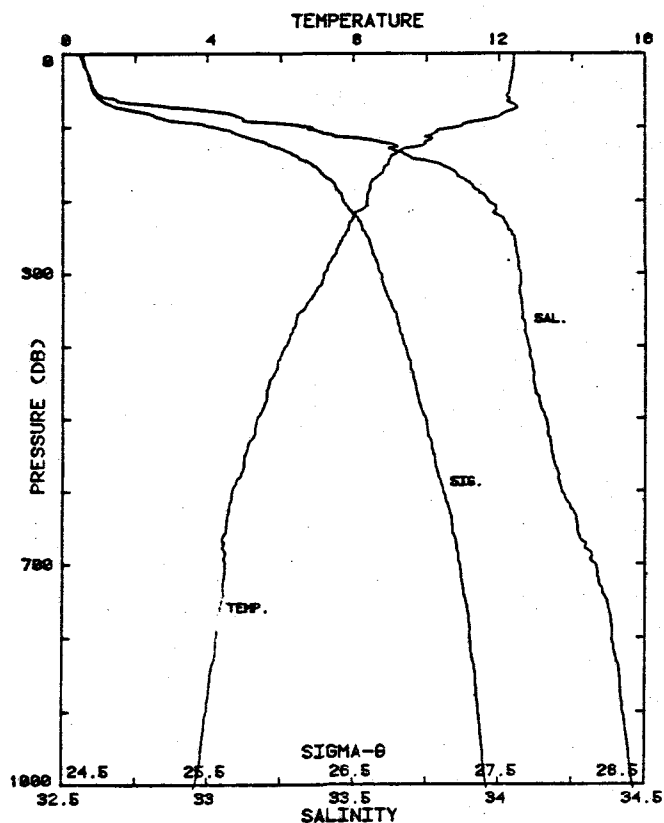
STATION 28 HM8

STA NO 28 HM8 LAT: 37 18.8 N LONG:123 9.2 W
11 APR 1983 0425 GMT PROBE 2561 DEPTH 1129M
64.8 KM FROM SHORE

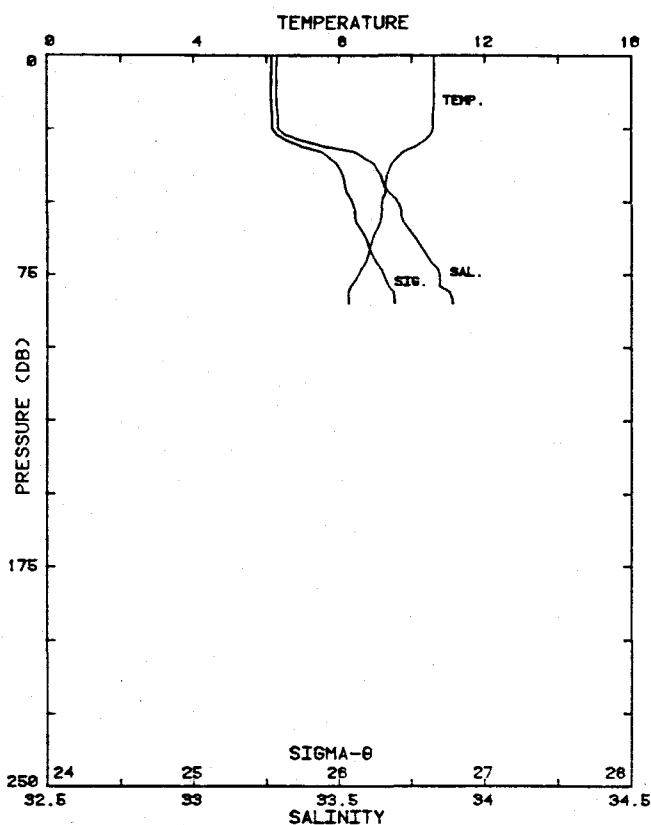
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.404	32.586	12.404	24.661	329.0	0.003
10	12.409	32.586	12.408	24.660	329.3	0.033
20	12.406	32.587	12.404	24.661	329.4	0.066
30	12.288	32.607	12.284	24.699	326.0	0.099
40	12.252	32.633	12.247	24.727	323.7	0.131
50	12.185	32.649	12.178	24.752	321.5	0.163
60	12.118	32.677	12.111	24.786	318.5	0.195
70	12.035	32.710	12.027	24.828	314.8	0.227
80	11.928	32.923	11.918	25.013	297.4	0.258
90	11.810	33.055	11.799	25.137	285.8	0.287
100	10.528	33.254	10.516	25.522	249.3	0.314
110	10.115	33.309	10.103	25.635	238.6	0.338
120	9.712	33.390	9.698	25.766	226.3	0.362
130	9.240	33.541	9.226	25.961	207.9	0.383
140	8.981	33.719	8.967	26.142	190.9	0.403
150	8.845	33.787	8.829	26.216	184.0	0.422
175	8.543	33.940	8.525	26.383	168.6	0.465
200	8.171	34.024	8.150	26.506	157.3	0.506
225	7.908	34.051	7.885	26.566	151.9	0.545
250	7.623	34.056	7.599	26.612	147.9	0.582
300	7.243	34.094	7.215	26.696	140.5	0.654
400	6.012	34.104	5.977	26.870	124.7	0.787
500	5.382	34.168	5.341	26.998	113.2	0.907
600	4.913	34.273	4.866	27.136	100.8	1.013
800	4.232	34.390	4.172	27.305	85.9	1.197
1000	3.817	34.442	3.743	27.391	78.9	1.361
1005	3.811	34.444	3.736	27.392	78.7	1.365

STA NO 29 HM9 LAT: 37 18.0 N LONG:123 15.4 W
11 APR 1983 0544 GMT PROBE 2561 DEPTH 1376M
74.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.390	32.562	12.390	24.644	330.6	0.003
10	12.392	32.570	12.390	24.651	330.2	0.033
20	12.375	32.579	12.372	24.661	329.4	0.066
30	12.344	32.593	12.340	24.678	328.1	0.099
40	12.298	32.601	12.293	24.693	326.9	0.132
50	12.263	32.614	12.256	24.710	325.5	0.164
60	12.251	32.659	12.244	24.747	322.2	0.197
70	12.431	32.808	12.422	24.828	314.8	0.229
80	12.187	33.046	12.177	25.059	293.1	0.259
90	11.646	33.122	11.635	25.220	278.0	0.288
100	10.863	33.345	10.851	25.534	248.2	0.314
110	10.168	33.413	10.155	25.707	231.8	0.338
120	9.970	33.588	9.956	25.877	215.8	0.360
130	9.350	33.628	9.336	26.011	203.2	0.381
140	9.028	33.691	9.013	26.112	193.8	0.401
150	8.946	33.794	8.930	26.206	185.0	0.420
175	8.477	33.895	8.459	26.358	170.9	0.465
200	8.368	33.963	8.348	26.428	164.8	0.506
225	7.962	34.014	7.940	26.529	155.5	0.547
250	7.716	34.053	7.691	26.596	149.4	0.585
300	7.186	34.072	7.157	26.687	141.4	0.658
400	6.125	34.102	6.090	26.854	126.3	0.791
500	5.358	34.160	5.317	26.994	113.5	0.912
600	4.671	34.217	4.625	27.118	102.1	1.020
800	4.241	34.388	4.181	27.302	86.2	1.206
1000	3.658	34.461	3.585	27.421	75.6	1.368
1005	3.629	34.464	3.556	27.427	75.1	1.371



STATION 29 HM9



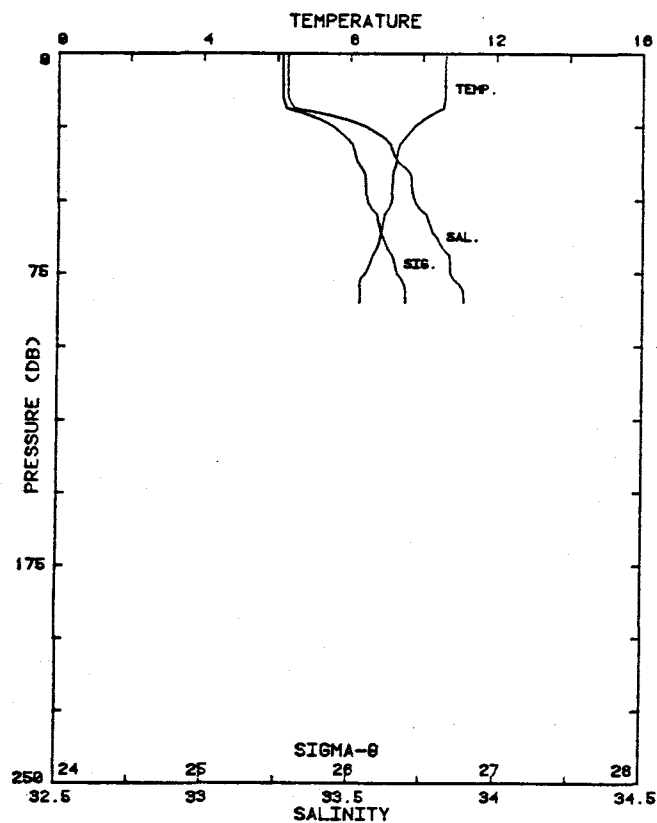
STATION 30 C3S

STA NO 30 C3S LAT: 38 36.2 N LONG:123 27.1 W
11 APR 1983 1436 GMT PROBE 2561 DEPTH 85M

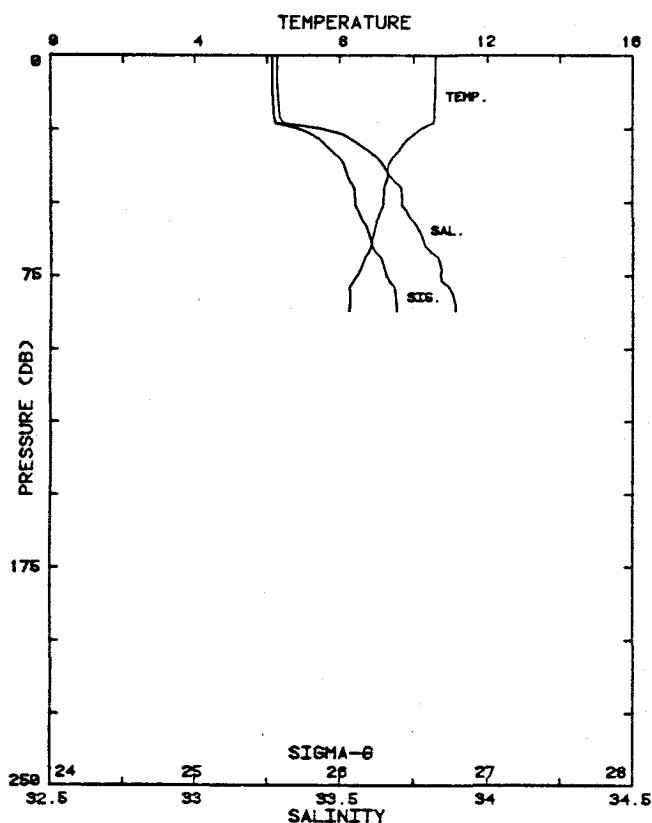
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.605	33.285	10.604	25.531	246.2	0.002
10	10.605	33.283	10.604	25.529	246.5	0.025
20	10.589	33.288	10.587	25.536	246.1	0.049
30	10.248	33.409	10.244	25.689	231.8	0.074
40	9.353	33.639	9.348	26.018	200.7	0.095
50	9.202	33.703	9.197	26.092	193.9	0.115
60	9.021	33.743	9.015	26.153	188.3	0.134
70	8.757	33.812	8.750	26.248	179.4	0.152
80	8.290	33.862	8.282	26.359	169.0	0.169
85	8.261	33.891	8.253	26.386	166.5	0.178

STA NO 31 C3S LAT: 38 36.2 N LONG:123 27.1 W
11 APR 1983 1446 GMT PROBE 2561 DEPTH 85M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.599	33.284	10.599	25.531	246.2	0.002
10	10.596	33.286	10.594	25.533	246.2	0.025
20	10.390	33.363	10.387	25.629	237.3	0.049
30	9.436	33.629	9.432	25.996	202.6	0.071
40	9.203	33.701	9.198	26.090	193.8	0.091
50	9.129	33.722	9.124	26.119	191.3	0.110
60	8.871	33.780	8.865	26.205	183.3	0.128
70	8.587	33.841	8.579	26.298	174.7	0.146
80	8.262	33.882	8.254	26.379	167.1	0.164
85	8.262	33.891	8.253	26.386	166.5	0.172



STATION 31 C3S



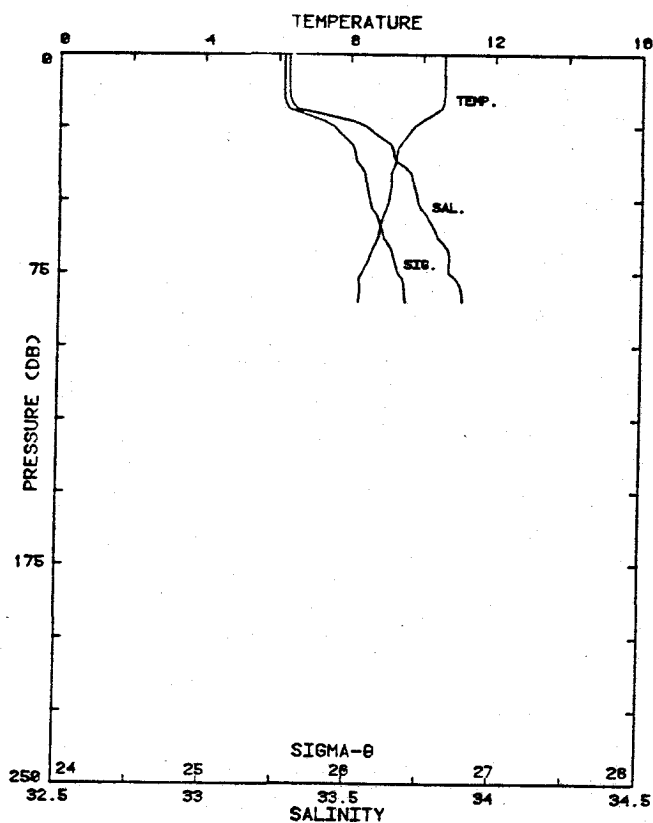
STATION 32 C3S

STA NO 32 C3S LAT: 38 36.2 N LONG: 123 27.1 W
11 APR 1983 1454 GMT PROBE 2561 DEPTH 89M

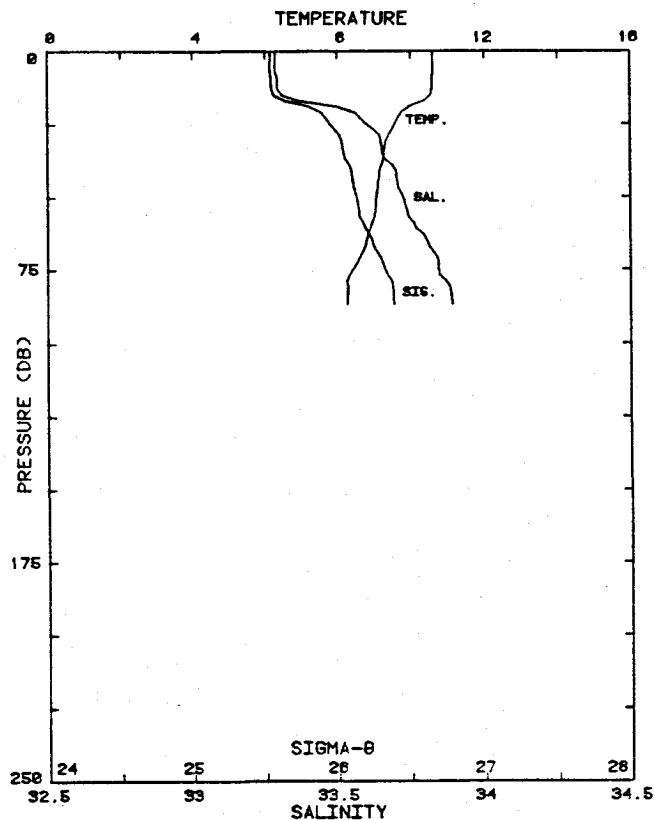
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.581	33.285	10.581	25.535	245.9	0.002
10	10.580	33.285	10.579	25.536	246.0	0.025
20	10.557	33.293	10.555	25.546	245.2	0.049
30	9.738	33.560	9.735	25.893	212.4	0.072
40	9.291	33.663	9.286	26.046	198.0	0.093
50	9.172	33.711	9.167	26.103	192.8	0.112
60	8.914	33.768	8.908	26.189	184.9	0.131
70	8.639	33.836	8.632	26.285	175.9	0.149
80	8.265	33.875	8.256	26.373	167.7	0.166
87	8.260	33.892	8.251	26.387	166.5	0.178

STA NO 33 C3S LAT: 38 36.2 N LONG: 123 27.1 W
11 APR 1983 1505 GMT PROBE 2561 DEPTH 85M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.588	33.285	10.588	25.534	245.9	0.002
10	10.592	33.286	10.591	25.534	246.1	0.025
20	10.391	33.364	10.389	25.630	237.2	0.049
30	9.468	33.625	9.465	25.988	203.3	0.071
40	9.188	33.702	9.183	26.094	193.5	0.091
50	9.075	33.733	9.070	26.136	189.7	0.110
60	8.836	33.791	8.830	26.219	182.0	0.128
70	8.541	33.843	8.533	26.306	173.9	0.146
80	8.277	33.883	8.269	26.378	167.2	0.163
85	8.256	33.892	8.247	26.388	166.4	0.171



STATION 33 C3S



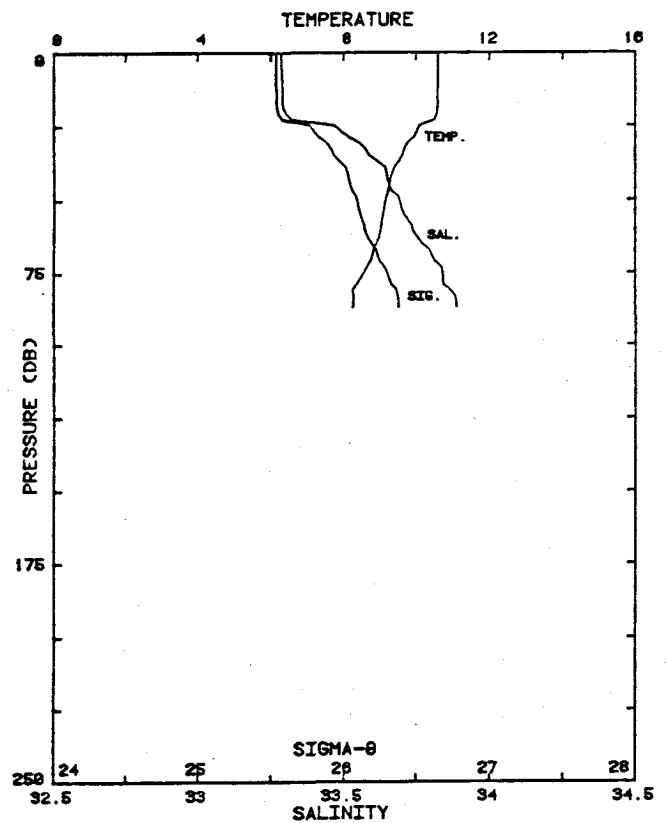
STATION 34 C3S

STA NO 34 C3S LAT: 38 36.2 N LONG: 123 27.1 W
11 APR 1983 1512 GMT PROBE 2561 DEPTH 89M

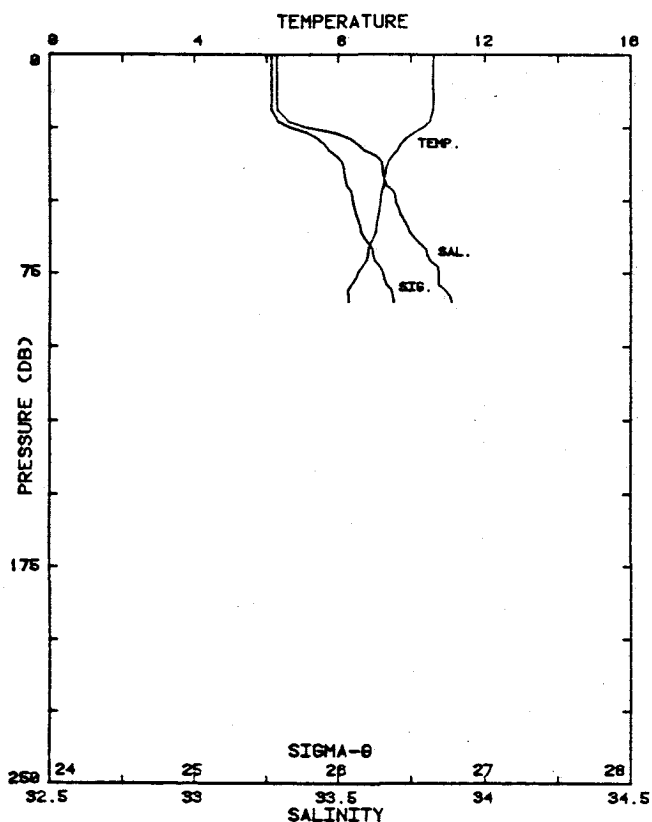
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.598	33.285	10.598	25.532	246.1	0.002
10	10.585	33.292	10.584	25.540	245.5	0.025
20	9.861	33.530	9.859	25.849	216.4	0.048
30	9.350	33.647	9.347	26.024	199.9	0.069
40	9.181	33.695	9.176	26.089	194.0	0.089
50	9.062	33.723	9.056	26.130	190.2	0.108
60	8.927	33.765	8.921	26.184	185.3	0.127
70	8.648	33.833	8.641	26.281	176.3	0.145
80	8.259	33.875	8.251	26.374	167.6	0.162
87	8.256	33.891	8.247	26.387	166.5	0.174

STA NO 35 C3S LAT: 38 36.2 N LONG: 123 27.1 W
11 APR 1983 1520 GMT PROBE 2561 DEPTH 89M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.596	33.285	10.596	25.532	246.1	0.002
10	10.591	33.288	10.590	25.536	245.9	0.025
20	10.568	33.299	10.565	25.548	245.0	0.049
30	9.845	33.539	9.842	25.858	215.7	0.072
40	9.376	33.647	9.372	26.020	200.5	0.093
50	9.158	33.693	9.152	26.091	193.9	0.113
60	9.025	33.739	9.018	26.149	188.7	0.132
70	8.772	33.809	8.765	26.243	179.9	0.150
80	8.309	33.854	8.301	26.350	169.8	0.168
87	8.265	33.889	8.256	26.384	166.8	0.179



STATION 35 C3S

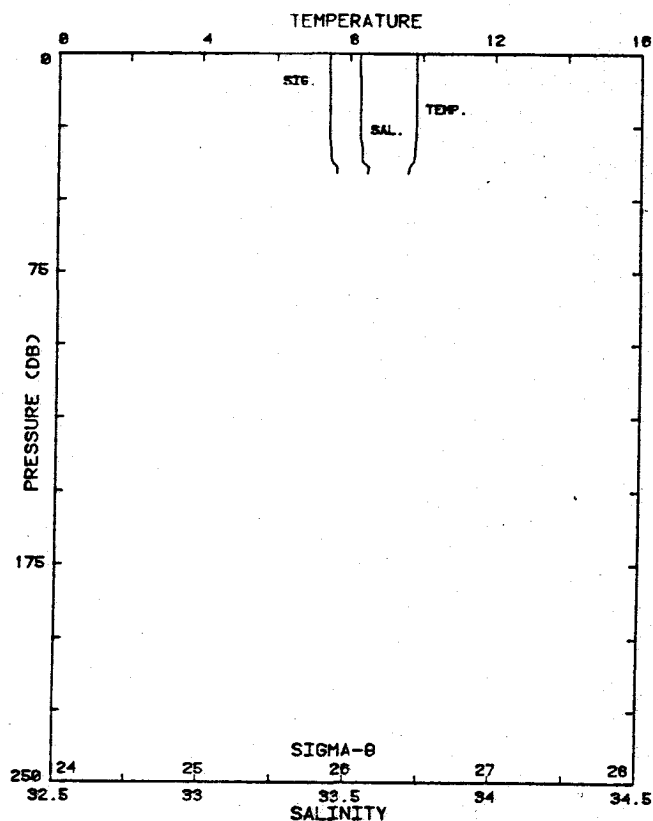


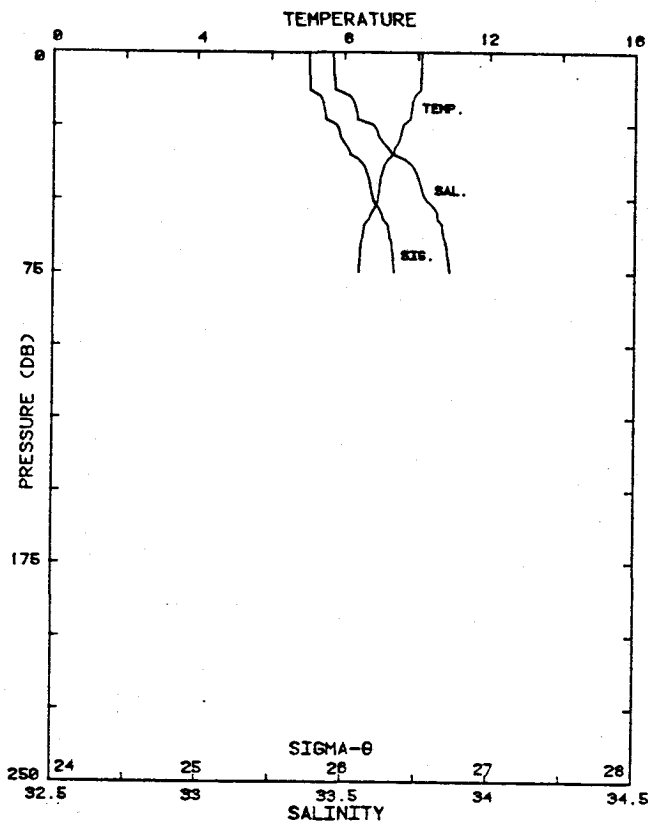
STA NO 36 C3S LAT: 38 36.2 N LONG: 123 27.1 W
11 APR 1983 1526 GMT PROBE 2561 DEPTH 89M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.600	33.286	10.600	25.532	246.1	0.002
10	10.597	33.287	10.596	25.534	246.1	0.025
20	10.570	33.298	10.568	25.547	245.1	0.049
30	9.778	33.556	9.775	25.883	213.3	0.072
40	9.295	33.653	9.291	26.038	198.8	0.093
50	9.140	33.697	9.134	26.097	193.4	0.112
60	9.020	33.740	9.014	26.151	188.5	0.132
70	8.772	33.809	8.765	26.244	179.8	0.150
80	8.308	33.853	8.300	26.350	169.9	0.167
85	8.273	33.888	8.264	26.382	166.9	0.176

STA NO 37 COC1 LAT: 38 39.8 N LONG: 123 25.5 W
12 APR 1983 0326 GMT PROBE 2561 DEPTH 47M
0.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	9.814	33.533	9.814	25.859	215.0	0.002
10	9.819	33.536	9.818	25.860	215.1	0.022
20	9.820	33.537	9.817	25.861	215.2	0.043
30	9.809	33.538	9.805	25.864	215.1	0.065
40	9.627	33.564	9.623	25.914	210.6	0.086
41	9.614	33.561	9.610	25.914	210.6	0.088





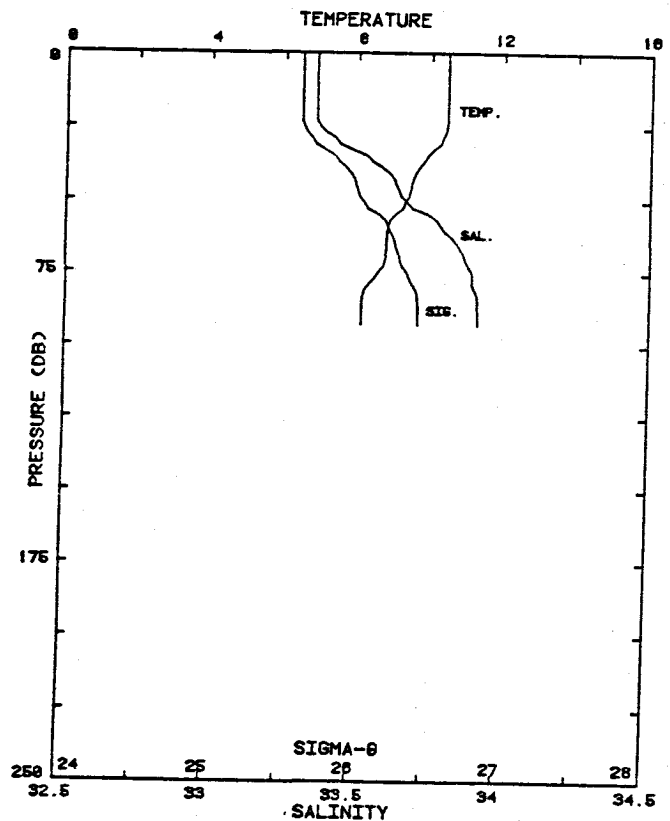
STATION 38 COC2

STA NO 38 COC2 LAT: 38 38.8 N LONG: 123 24.0 W
 12 APR 1983 0401 GMT PROBE 2561 DEPTH 80M
 2.8 KM FROM SHORE

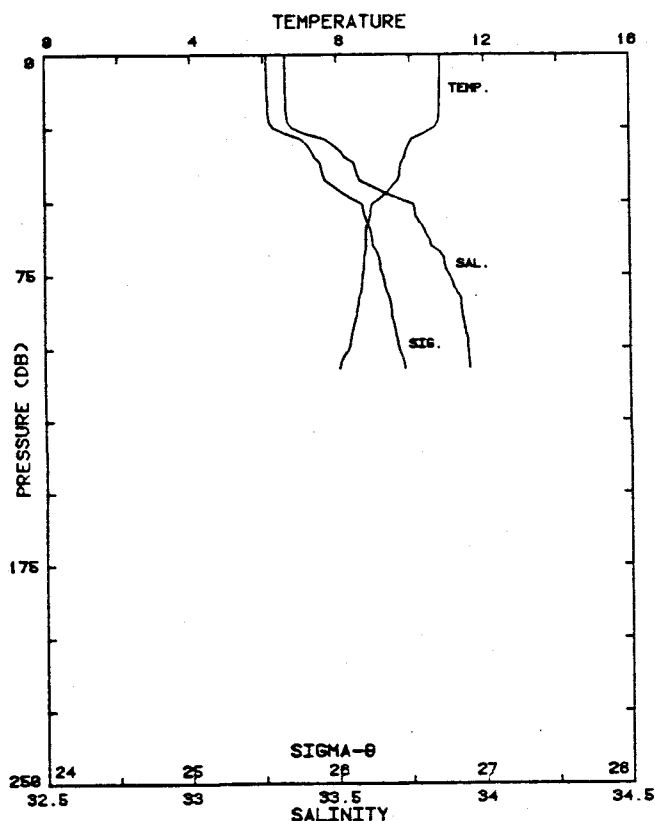
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.098	33.458	10.098	25.752	225.2	0.002
10	10.076	33.465	10.075	25.762	224.4	0.022
20	9.824	33.539	9.822	25.862	215.1	0.044
30	9.497	33.625	9.494	25.983	203.8	0.065
40	9.054	33.738	9.050	26.143	188.8	0.085
50	8.917	33.777	8.912	26.195	184.1	0.104
60	8.531	33.834	8.525	26.300	174.3	0.122
70	8.423	33.853	8.416	26.332	171.4	0.139
75	8.402	33.860	8.395	26.340	170.7	0.147

STA NO 39 COC3 LAT: 38 37.5 N LONG: 123 28.9 W
 12 APR 1983 0439 GMT PROBE 2561 DEPTH 94M
 7.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.448	33.357	10.448	25.614	238.3	0.002
10	10.453	33.356	10.452	25.613	238.6	0.024
20	10.451	33.357	10.449	25.614	238.7	0.048
30	10.298	33.430	10.294	25.697	231.0	0.071
40	9.632	33.600	9.628	25.942	208.0	0.093
50	9.359	33.662	9.353	26.035	199.3	0.114
60	8.841	33.795	8.835	26.221	181.8	0.133
70	8.770	33.869	8.763	26.290	175.4	0.150
80	8.274	33.900	8.265	26.392	165.9	0.167
90	8.152	33.919	8.143	26.424	163.0	0.184
93	8.152	33.919	8.142	26.425	163.0	0.189



STATION 39 COC3



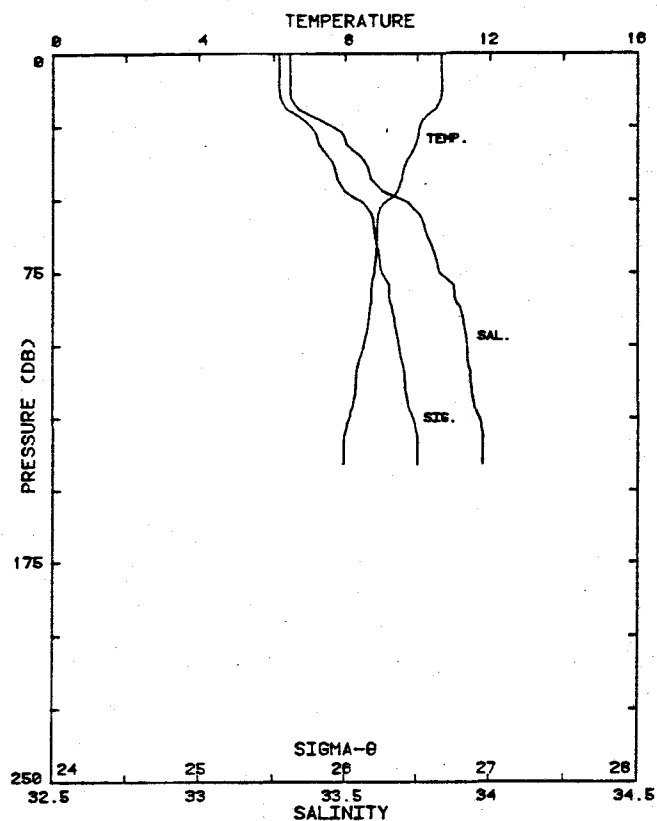
STATION 40 COC4

STA NO 40 COC4 LAT: 38 36.2 N LONG: 123 30.8 W
 12 APR 1983 0515 GMT PROBE 2561 DEPTH 112M
 11.1 KM FROM SHORE

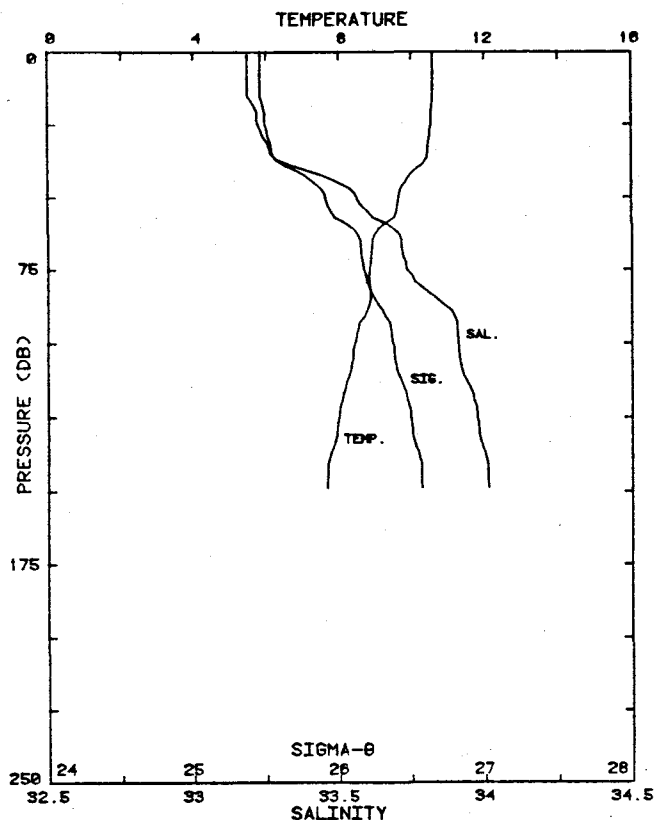
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.809	33.326	10.809	25.526	246.6	0.002
10	10.810	33.326	10.809	25.527	246.8	0.025
20	10.787	33.330	10.785	25.534	246.3	0.049
30	10.001	33.477	9.997	25.784	222.7	0.073
40	9.713	33.568	9.709	25.903	211.7	0.095
50	9.070	33.736	9.065	26.139	189.4	0.115
60	8.792	33.800	8.786	26.233	180.6	0.134
70	8.741	33.864	8.734	26.291	175.3	0.151
80	8.659	33.903	8.650	26.335	171.3	0.169
90	8.488	33.928	8.479	26.380	167.2	0.186
100	8.310	33.944	8.300	26.421	163.5	0.202
107	8.064	33.950	8.054	26.462	159.7	0.213

STA NO 41 COC5 LAT: 38 34.4 N LONG: 123 33.3 W
 12 APR 1983 0558 GMT PROBE 2561 DEPTH 142M
 16.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.663	33.305	10.663	25.536	245.7	0.002
10	10.672	33.306	10.671	25.536	245.9	0.025
20	10.398	33.353	10.396	25.620	238.2	0.049
30	9.974	33.500	9.971	25.807	220.6	0.072
40	9.611	33.580	9.606	25.930	209.1	0.093
50	9.216	33.696	9.211	26.085	194.6	0.114
60	8.888	33.775	8.881	26.199	183.9	0.132
70	8.838	33.813	8.830	26.236	180.5	0.150
80	8.725	33.876	8.717	26.303	174.4	0.168
90	8.667	33.906	8.658	26.336	171.4	0.186
100	8.513	33.922	8.503	26.373	168.1	0.203
110	8.309	33.934	8.298	26.413	164.4	0.219
120	8.225	33.947	8.213	26.436	162.4	0.236
130	7.981	33.974	7.969	26.493	157.1	0.252
140	7.949	33.975	7.935	26.500	156.7	0.267
141	7.949	33.975	7.935	26.500	156.7	0.269



STATION 41 COC5

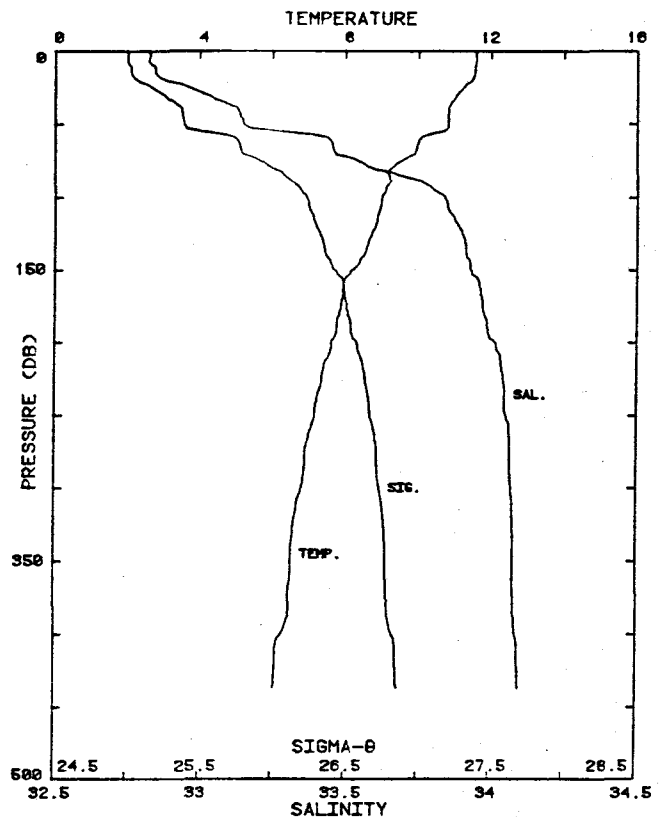


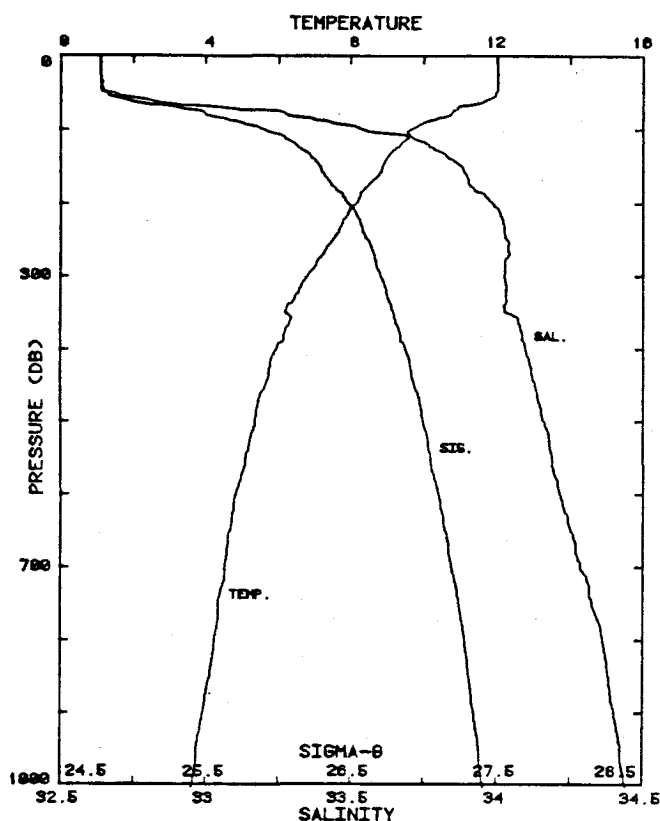
STA NO 42 COC6 LAT: 38 32.7 N LONG:123 36.2 W
12 APR 1983 0647 GMT PROBE 2561 DEPTH 155M
21.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.586	33.185	10.586	25.456	253.3	0.003
10	10.591	33.186	10.590	25.456	253.5	0.025
20	10.548	33.214	10.546	25.486	250.9	0.051
30	10.486	33.245	10.482	25.521	247.8	0.076
40	10.180	33.367	10.176	25.668	234.0	0.100
50	9.655	33.563	9.650	25.909	211.3	0.122
60	9.193	33.678	9.186	26.074	195.8	0.143
70	8.894	33.721	8.887	26.155	188.2	0.162
80	8.862	33.774	8.854	26.202	184.0	0.180
90	8.745	33.890	8.735	26.311	173.8	0.198
100	8.440	33.909	8.430	26.374	168.0	0.215
110	8.303	33.924	8.292	26.406	165.1	0.232
120	8.065	33.966	8.053	26.475	158.7	0.248
130	7.939	33.980	7.926	26.505	156.0	0.264
140	7.703	34.007	7.690	26.560	150.9	0.279
149	7.668	34.012	7.654	26.569	150.2	0.293

STA NO 43 COC7 LAT: 38 30.3 N LONG:123 39.6 W
12 APR 1983 0745 GMT PROBE 2561 DEPTH 442M
27.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.575	32.825	11.575	25.000	296.7	0.003
10	11.551	32.838	11.550	25.015	295.4	0.030
20	11.459	32.881	11.456	25.066	290.9	0.059
30	11.064	33.024	11.061	25.247	273.8	0.087
40	10.817	33.130	10.812	25.374	262.0	0.114
50	10.805	33.150	10.799	25.392	260.5	0.140
60	10.053	33.442	10.047	25.748	226.8	0.165
70	9.898	33.465	9.890	25.793	222.8	0.187
80	9.265	33.591	9.256	25.995	203.7	0.208
90	9.200	33.767	9.191	26.143	189.9	0.228
100	9.006	33.839	8.995	26.230	181.8	0.247
110	8.911	33.858	8.900	26.260	179.1	0.265
120	8.824	33.887	8.811	26.297	175.7	0.282
130	8.647	33.909	8.633	26.342	171.6	0.300
140	8.506	33.915	8.492	26.369	169.3	0.317
150	8.206	33.931	8.191	26.426	163.9	0.333
175	7.882	33.972	7.865	26.507	156.6	0.373
200	7.629	34.016	7.610	26.579	150.1	0.412
225	7.363	34.045	7.341	26.640	144.7	0.448
250	7.161	34.054	7.137	26.676	141.6	0.484
300	6.815	34.073	6.788	26.739	136.2	0.553
400	6.265	34.088	6.230	26.824	129.2	0.686
437	6.048	34.100	6.010	26.862	125.9	0.733





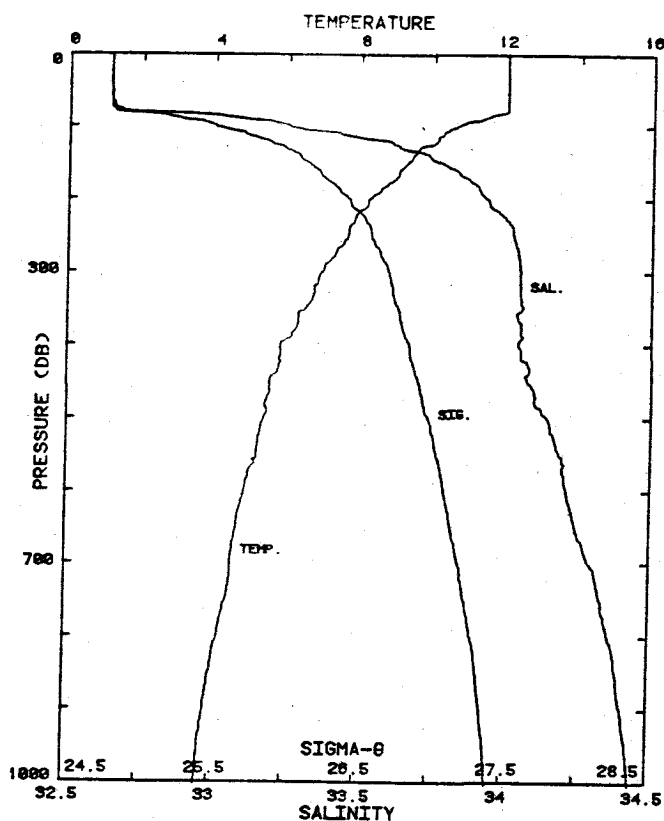
STATION 44 COC8

STA NO 44 COC8 LAT: 38 27.1 N LONG: 123 44.5 W
 12 APR 1983 0848 GMT PROBE 2561 DEPTH 1226M
 37.0 KM FROM SHORE

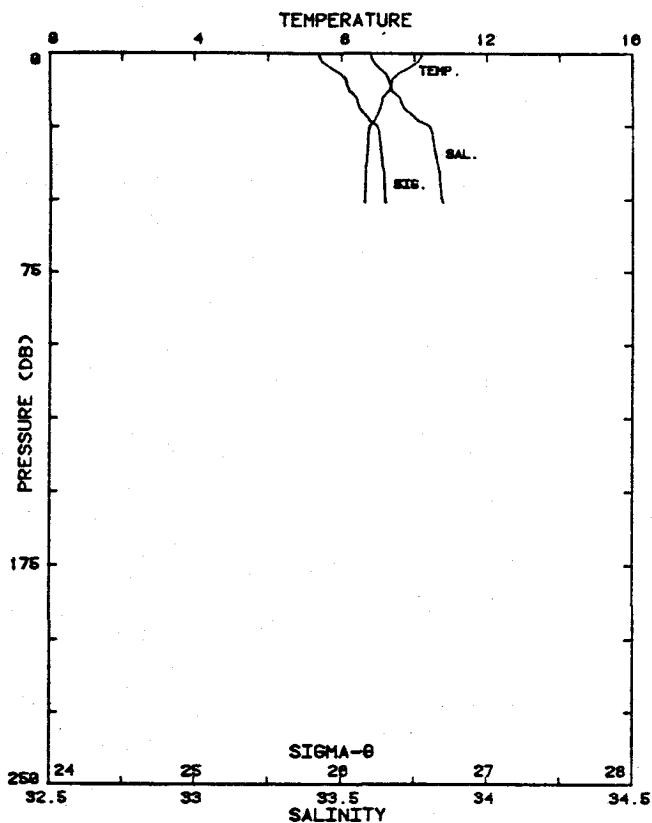
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.011	32.638	12.010	24.775	318.1	0.003
10	12.020	32.640	12.019	24.775	318.4	0.032
20	12.022	32.639	12.019	24.774	318.7	0.064
30	12.023	32.640	12.020	24.775	318.8	0.096
40	12.019	32.642	12.014	24.777	318.8	0.127
50	11.987	32.670	11.981	24.805	316.4	0.159
60	11.749	32.796	11.741	24.947	303.1	0.190
70	10.959	33.037	10.950	25.277	271.9	0.220
80	10.733	33.277	10.724	25.504	250.6	0.245
90	10.052	33.428	10.042	25.739	228.4	0.269
100	9.661	33.540	9.650	25.891	214.0	0.292
110	9.588	33.707	9.575	26.034	200.7	0.312
120	9.362	33.764	9.349	26.115	193.1	0.332
130	9.127	33.807	9.113	26.187	186.5	0.351
140	8.970	33.843	8.955	26.240	181.6	0.369
150	8.863	33.880	8.847	26.286	177.4	0.387
175	8.493	33.906	8.475	26.364	170.4	0.431
200	8.150	33.986	8.130	26.479	159.8	0.472
225	7.768	34.022	7.746	26.564	152.0	0.511
250	7.497	34.036	7.472	26.614	147.6	0.548
300	6.787	34.026	6.760	26.706	139.3	0.620
400	5.925	34.097	5.891	26.875	124.1	0.752
500	5.340	34.159	5.299	26.996	113.4	0.870
600	4.821	34.214	4.774	27.100	104.0	0.979
800	4.243	34.362	4.182	27.282	88.1	1.170
1000	3.615	34.442	3.543	27.410	76.5	1.335
1003	3.614	34.442	3.541	27.410	76.6	1.337

STA NO 45 COC9 LAT: 38 23.9 N LONG: 123 49.3 W
 12 APR 1983 1013 GMT PROBE 2561 DEPTH 1727M
 46.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.971	32.644	11.971	24.787	317.0	0.003
10	11.989	32.644	11.988	24.784	317.5	0.032
20	11.990	32.644	11.987	24.784	317.8	0.063
30	11.992	32.644	11.989	24.784	318.0	0.095
40	11.990	32.643	11.985	24.783	318.3	0.127
50	11.993	32.645	11.987	24.785	318.4	0.159
60	11.994	32.645	11.987	24.785	318.6	0.191
70	12.002	32.653	11.993	24.790	318.4	0.223
80	11.977	32.695	11.967	24.827	315.0	0.254
90	11.300	33.101	11.289	25.266	273.5	0.283
100	10.639	33.253	10.627	25.502	251.2	0.309
110	10.273	33.428	10.260	25.701	232.4	0.334
120	10.112	33.588	10.098	25.854	218.1	0.356
130	9.605	33.638	9.591	25.977	206.5	0.377
140	9.459	33.735	9.444	26.077	197.2	0.398
150	9.300	33.774	9.284	26.133	192.0	0.417
175	8.907	33.874	8.888	26.275	179.0	0.463
200	8.257	33.934	8.237	26.423	165.2	0.506
225	7.865	33.995	7.843	26.529	155.4	0.547
250	7.677	34.024	7.653	26.579	151.0	0.585
300	6.952	34.051	6.924	26.703	139.7	0.658
400	5.822	34.044	5.788	26.846	126.7	0.792
500	5.385	34.143	5.343	26.977	115.1	0.913
600	4.873	34.212	4.826	27.092	104.9	1.023
800	4.192	34.362	4.132	27.287	87.5	1.215
1000	3.639	34.440	3.566	27.407	76.9	1.377
1003	3.631	34.441	3.558	27.408	76.8	1.380



STATION 45 COC9



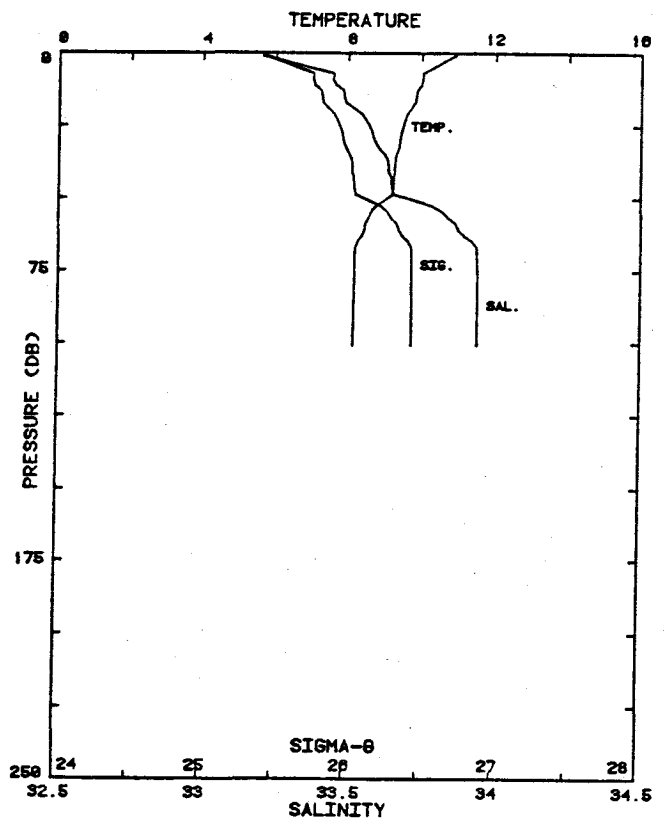
STATION 46 AR1

STA NO 46 AR1 LAT: 38 56.8 N LONG:123 46.2 W
 14 APR 1983 0028 GMT PROBE 2561 DEPTH 58M
 2.8 KM FROM SHORE

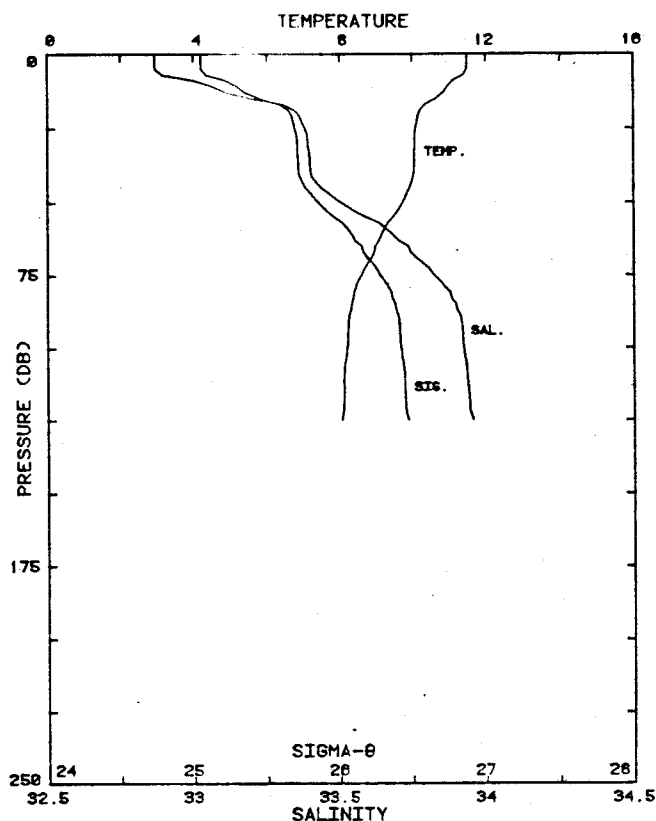
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.194	33.600	10.194	25.847	216.2	0.002
10	9.374	33.665	9.372	26.034	198.6	0.021
20	9.010	33.727	9.008	26.141	188.6	0.040
30	8.695	33.814	8.692	26.258	177.6	0.058
40	8.633	33.833	8.629	26.283	175.5	0.076
50	8.609	33.844	8.604	26.295	174.5	0.093
51	8.604	33.846	8.598	26.298	174.2	0.095

STA NO 47 AR2 LAT: 38 55.7 N LONG:123 55.7 W
 14 APR 1983 0100 GMT PROBE 2561 DEPTH 105M
 7.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.886	33.205	10.886	25.419	256.8	0.003
10	10.012	33.452	10.011	25.762	224.4	0.024
20	9.666	33.533	9.664	25.883	213.1	0.046
30	9.416	33.592	9.412	25.970	205.0	0.066
40	9.274	33.640	9.269	26.031	199.4	0.087
50	9.104	33.696	9.099	26.102	192.9	0.106
60	8.455	33.871	8.449	26.341	170.4	0.124
70	8.190	33.940	8.183	26.435	161.6	0.141
80	8.178	33.942	8.170	26.438	161.5	0.157
90	8.170	33.941	8.161	26.439	161.6	0.173
100	8.167	33.941	8.157	26.440	161.7	0.189
101	8.167	33.941	8.157	26.440	161.7	0.191



STATION 47 AR2



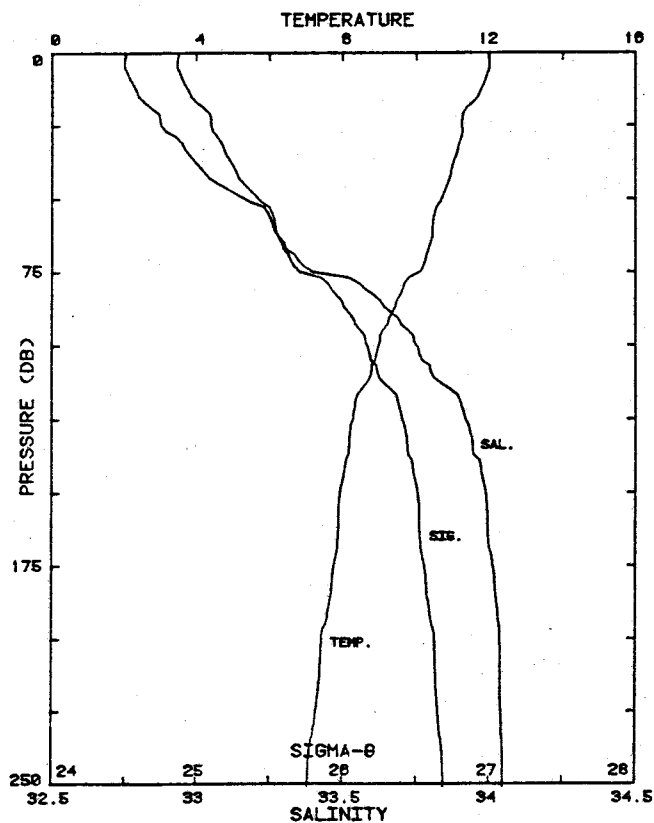
STATION 48 AR3

STA NO 48 AR3 LAT: 38 54.8 N LONG: 123 52.6 W
 14 APR 1983 0137 GMT PROBE 2561 DEPTH 133M
 12.6 KM FROM SHORE

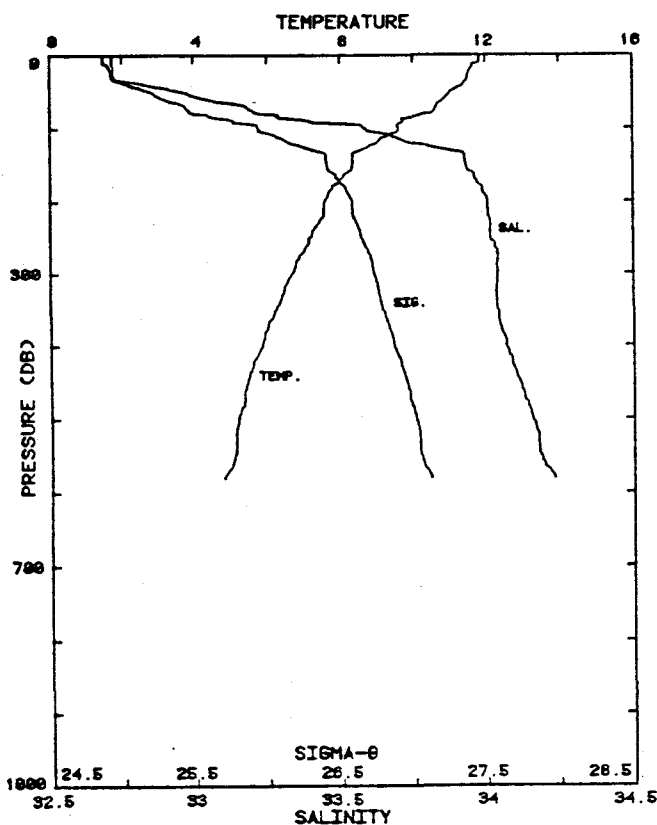
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.490	32.868	11.490	25.049	292.0	0.003
10	11.039	33.036	11.038	25.261	272.0	0.029
20	10.183	33.355	10.181	25.658	234.6	0.054
30	10.064	33.390	10.060	25.706	230.2	0.077
40	10.039	33.400	10.034	25.718	229.2	0.100
50	9.735	33.502	9.729	25.849	217.0	0.123
60	9.200	33.671	9.193	26.068	196.4	0.143
70	8.828	33.774	8.821	26.207	183.3	0.162
80	8.418	33.870	8.410	26.346	170.3	0.180
90	8.248	33.915	8.239	26.407	164.6	0.197
100	8.194	33.925	8.184	26.423	163.3	0.213
110	8.104	33.936	8.093	26.446	161.3	0.229
120	8.100	33.943	8.088	26.452	160.9	0.245
125	8.051	33.956	8.039	26.469	159.4	0.253

STA NO 49 AR4 LAT: 38 53.8 N LONG: 123 55.8 W
 14 APR 1983 0212 GMT PROBE 2561 DEPTH 264M
 17.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.965	32.756	11.965	24.875	308.7	0.003
10	11.855	32.775	11.853	24.910	305.5	0.031
20	11.320	32.856	11.317	25.071	290.4	0.061
30	11.195	32.940	11.191	25.159	282.2	0.089
40	10.955	33.019	10.950	25.263	272.6	0.117
50	10.691	33.164	10.685	25.423	257.6	0.144
60	10.439	33.263	10.432	25.544	246.3	0.169
70	10.261	33.340	10.253	25.635	237.9	0.193
80	9.651	33.567	9.643	25.914	211.5	0.216
90	9.297	33.678	9.287	26.058	197.9	0.236
100	8.982	33.750	8.971	26.165	188.0	0.255
110	8.763	33.805	8.751	26.242	180.8	0.274
120	8.349	33.903	8.337	26.383	167.5	0.291
130	8.201	33.937	8.188	26.432	163.0	0.308
140	8.085	33.969	8.071	26.474	159.1	0.324
150	7.943	33.988	7.928	26.511	155.8	0.340
175	7.776	34.014	7.759	26.556	152.0	0.378
200	7.429	34.037	7.410	26.624	145.8	0.416
225	7.276	34.041	7.255	26.649	143.8	0.452
250	7.041	34.048	7.018	26.688	140.4	0.487
251	7.037	34.048	7.013	26.689	140.3	0.489



STATION 49 AR4



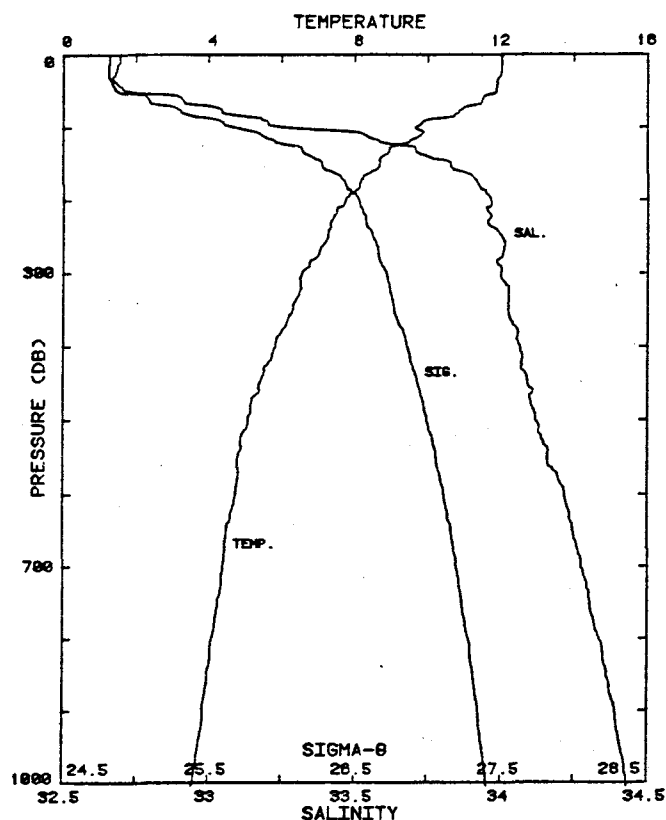
STATION 50 AR5

STA NO 50 AR5 LAT: 38 53.0 N LONG: 123 59.0 W
 14 APR 1983 0250 GMT PROBE 2561 DEPTH 625M
 22.4 KM FROM SHORE

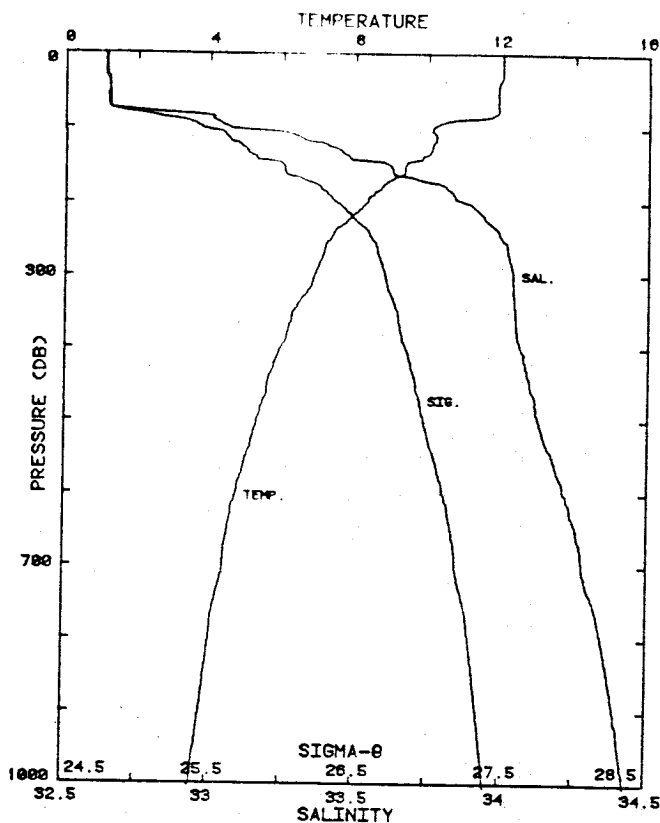
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.849	32.716	11.848	24.866	309.5	0.003
10	11.825	32.715	11.824	24.870	309.3	0.031
20	11.582	32.722	11.580	24.919	304.8	0.062
30	11.515	32.722	11.511	24.932	303.9	0.092
40	11.396	32.836	11.391	25.042	293.6	0.122
50	11.033	32.966	11.027	25.208	278.0	0.151
60	10.856	33.051	10.849	25.306	268.9	0.178
70	10.639	33.180	10.631	25.445	256.0	0.204
80	10.385	33.257	10.375	25.549	246.3	0.229
90	9.721	33.398	9.711	25.771	225.3	0.253
100	9.590	33.588	9.579	25.940	209.4	0.274
110	9.283	33.676	9.271	26.059	198.2	0.295
120	8.989	33.743	8.977	26.159	188.9	0.314
130	8.545	33.873	8.532	26.329	172.8	0.332
140	8.342	33.929	8.327	26.405	165.8	0.349
150	8.328	33.934	8.313	26.410	165.5	0.366
175	7.923	33.972	7.906	26.501	157.2	0.406
200	7.562	34.006	7.543	26.581	149.9	0.444
225	7.461	34.014	7.439	26.602	148.3	0.482
250	7.150	34.015	7.127	26.647	144.3	0.518
300	6.665	34.040	6.638	26.733	136.6	0.588
400	5.828	34.068	5.794	26.863	125.1	0.719
500	5.174	34.158	5.134	27.014	111.4	0.837
581	4.780	34.232	4.735	27.119	102.0	0.924

STA NO 51 AR6 LAT: 38 51.9 N LONG: 124 2.4 W
 14 APR 1983 0345 GMT PROBE 2561 DEPTH 1470M
 27.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.014	32.695	12.013	24.819	314.0	0.003
10	12.016	32.695	12.015	24.818	314.2	0.031
20	12.001	32.684	11.998	24.813	314.9	0.063
30	11.964	32.675	11.960	24.813	315.2	0.094
40	11.885	32.685	11.880	24.836	313.3	0.126
50	11.855	32.718	11.848	24.867	310.5	0.157
60	11.497	32.905	11.490	25.078	290.7	0.187
70	11.223	32.973	11.215	25.181	281.1	0.216
80	10.806	33.050	10.797	25.314	268.6	0.243
90	9.960	33.191	9.950	25.570	244.4	0.269
100	9.672	33.271	9.661	25.680	234.1	0.293
110	9.823	33.532	9.811	25.858	217.4	0.315
120	9.482	33.586	9.468	25.957	208.2	0.337
130	8.952	33.709	8.938	26.138	191.1	0.356
140	8.758	33.749	8.743	26.200	185.4	0.375
150	8.678	33.828	8.662	26.274	178.5	0.394
175	8.138	33.915	8.120	26.425	164.5	0.436
200	7.734	33.963	7.714	26.522	155.5	0.477
225	7.404	33.964	7.382	26.570	151.2	0.515
250	7.254	34.000	7.230	26.621	146.8	0.552
300	6.543	33.999	6.517	26.717	138.1	0.624
400	5.839	34.064	5.806	26.859	125.5	0.756
500	5.080	34.118	5.040	26.993	113.3	0.875
600	4.742	34.220	4.695	27.113	102.7	0.983
800	4.095	34.337	4.035	27.277	88.2	1.174
1000	3.583	34.432	3.511	27.405	76.9	1.339
1005	3.555	34.432	3.483	27.408	76.6	1.343



STATION 51 AR6



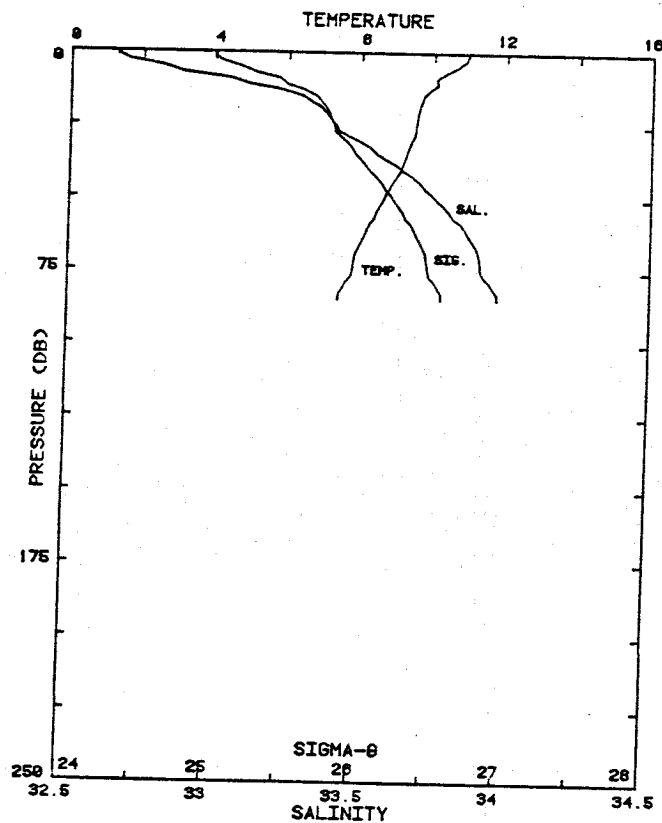
STATION 52 AR7

STA NO 52 AR7 LAT: 38 50.2 N LONG: 124 8.2 W
 14 APR 1983 0506 GMT PROBE 2561 DEPTH 2172M
 36.6 KM FROM SHORE

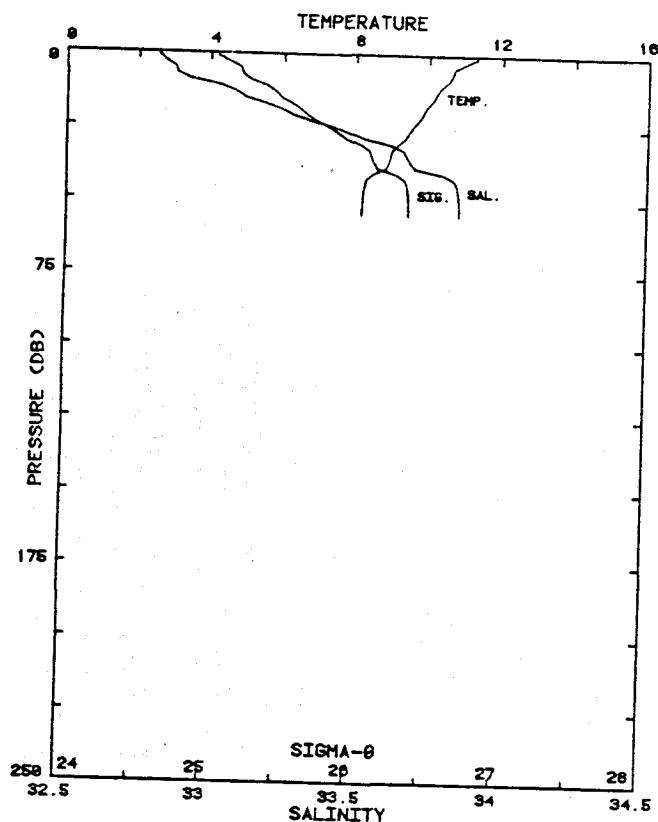
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.009	32.645	12.009	24.781	317.6	0.003
10	12.016	32.644	12.015	24.779	317.9	0.032
20	12.014	32.645	12.012	24.780	318.1	0.064
30	12.017	32.645	12.013	24.780	318.4	0.095
40	11.924	32.654	11.919	24.804	316.3	0.127
50	11.894	32.652	11.887	24.809	316.1	0.159
60	11.875	32.649	11.867	24.811	316.2	0.190
70	11.876	32.651	11.868	24.811	316.3	0.222
80	11.853	32.823	11.843	24.950	303.4	0.253
90	10.647	33.014	10.636	25.315	268.8	0.282
100	10.123	33.066	10.112	25.445	256.5	0.308
110	10.198	33.286	10.185	25.604	241.7	0.333
120	10.168	33.363	10.155	25.669	235.7	0.357
130	10.074	33.446	10.060	25.749	228.3	0.380
140	9.842	33.478	9.826	25.814	222.3	0.403
150	9.374	33.614	9.358	25.996	205.0	0.424
175	8.815	33.782	8.796	26.217	184.4	0.474
200	8.318	33.871	8.297	26.363	170.8	0.518
225	7.806	33.945	7.784	26.498	158.3	0.559
250	7.317	34.000	7.293	26.612	147.7	0.597
300	6.873	34.038	6.845	26.704	139.6	0.668
400	5.940	34.063	5.906	26.846	126.8	0.801
500	5.309	34.126	5.269	26.973	115.5	0.922
600	4.765	34.214	4.718	27.106	103.4	1.031
800	4.052	34.347	3.992	27.289	87.0	1.220
1000	3.568	34.428	3.496	27.404	77.0	1.384
1005	3.536	34.432	3.464	27.410	76.4	1.388

STA NO 53 LAT: 40 52.4 N LONG: 124 20.1 W
 14 APR 1983 1829 GMT PROBE 2561 DEPTH 89M
 14.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.915	32.663	10.915	24.993	297.4	0.003
10	10.080	33.080	10.079	25.462	253.0	0.028
20	9.582	33.371	9.580	25.771	223.8	0.051
30	9.419	33.481	9.416	25.884	213.3	0.073
40	9.119	33.640	9.115	26.056	197.1	0.094
50	8.662	33.760	8.657	26.222	181.5	0.113
60	8.226	33.858	8.220	26.365	168.0	0.130
70	7.873	33.914	7.866	26.462	159.0	0.147
80	7.590	33.957	7.583	26.537	152.0	0.162
85	7.444	33.979	7.436	26.575	148.4	0.170



STATION 53



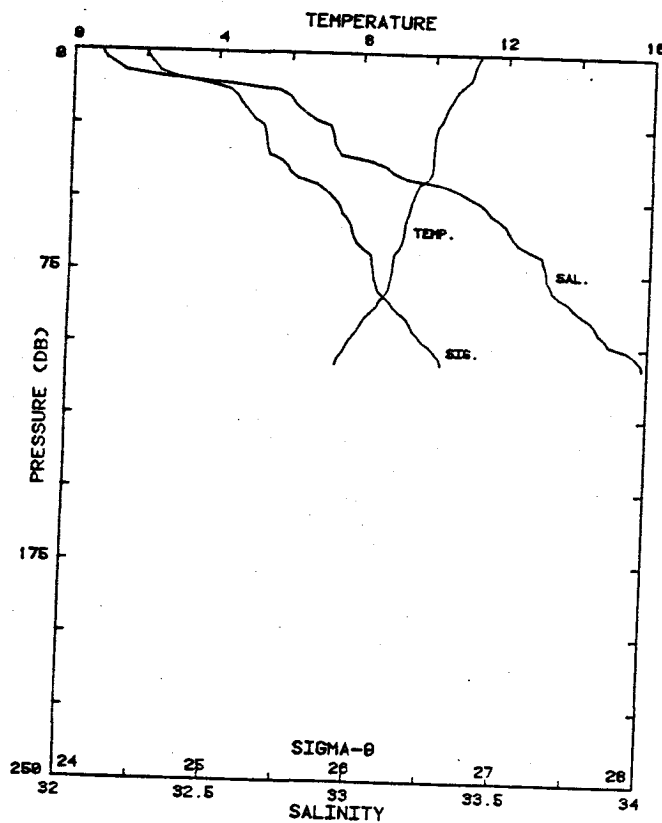
STATION 54 EUR1

STA NO 54 EUR1 LAT: 40 52.0 N LONG: 124 16.0 W
 14 APR 1983 1909 GMT PROBE 2561 DEPTH 59M
 8.7 KM FROM SHORE

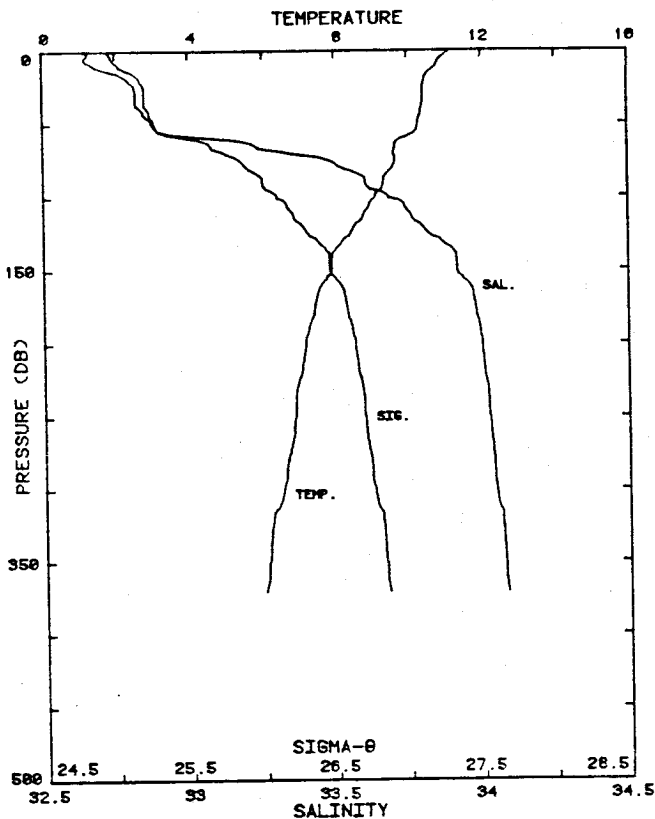
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.286	32.822	11.286	25.051	291.9	0.003
10	10.429	32.974	10.428	25.321	266.3	0.028
20	9.848	33.262	9.846	25.642	236.0	0.053
30	9.243	33.578	9.240	25.988	203.4	0.075
40	8.654	33.754	8.650	26.218	181.6	0.094
50	8.205	33.857	8.200	26.367	167.6	0.111
55	8.194	33.858	8.188	26.370	167.5	0.120

STA NO 55 EUR2 LAT: 40 52.0 N LONG: 124 22.0 W
 14 APR 1983 1953 GMT PROBE 2561 DEPTH 111M
 17.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.197	32.098	11.197	24.505	343.8	0.003
10	10.867	32.428	10.866	24.819	314.1	0.034
20	10.295	32.793	10.293	25.202	277.9	0.062
30	10.016	32.905	10.012	25.337	265.3	0.089
40	9.960	33.102	9.956	25.499	250.0	0.115
50	9.435	33.393	9.430	25.813	220.4	0.139
60	9.226	33.509	9.220	25.937	208.7	0.160
70	8.935	33.632	8.928	26.080	195.4	0.181
80	8.823	33.664	8.815	26.122	191.5	0.200
90	8.253	33.788	8.244	26.307	174.1	0.218
100	7.711	33.899	7.702	26.474	158.3	0.235
107	7.406	33.982	7.396	26.583	148.0	0.246



STATION 55 EUR2



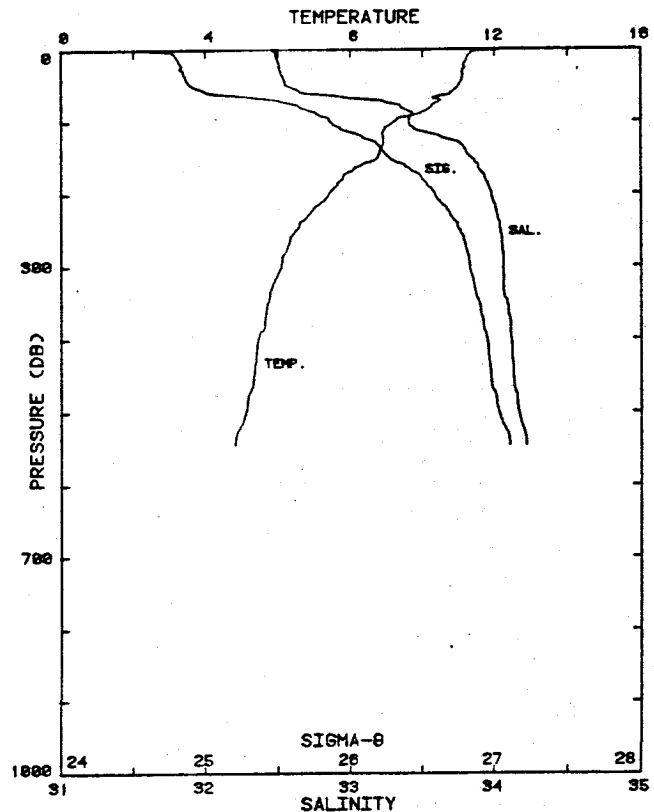
STATION 56 EUR3

STA NO 56 EUR3 LAT: 40 51.9 N LONG:124 28.0 W
 14 APR 1983 2038 GMT PROBE 2561 DEPTH 372M
 25.5 KM FROM SHORE

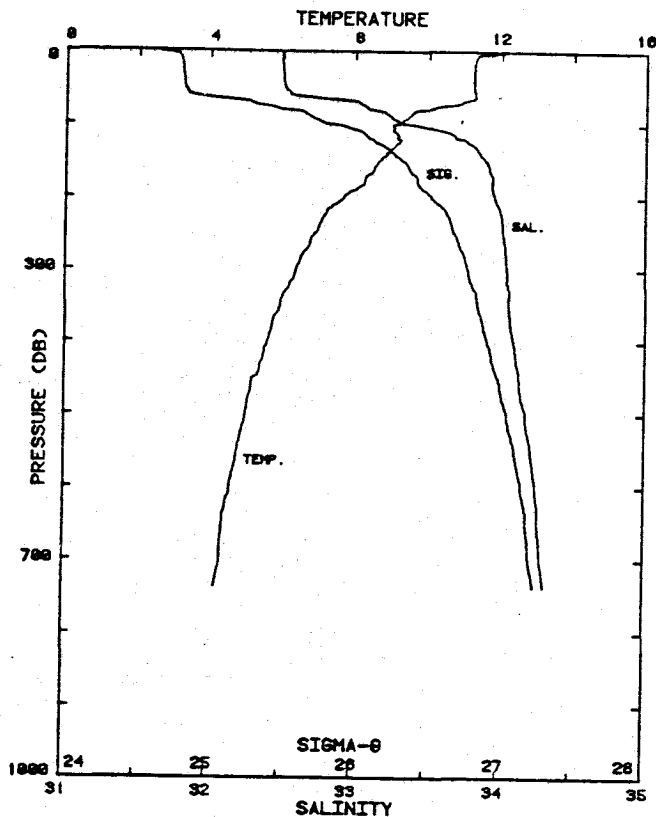
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.106	32.656	11.105	24.954	301.1	0.003
10	10.803	32.678	10.802	25.025	294.5	0.030
20	10.476	32.794	10.474	25.172	280.7	0.059
30	10.425	32.821	10.422	25.201	278.2	0.086
40	10.380	32.838	10.375	25.223	276.3	0.114
50	10.284	32.877	10.279	25.269	272.1	0.142
60	9.888	33.099	9.881	25.509	249.5	0.168
70	9.612	33.334	9.605	25.738	227.9	0.192
80	9.589	33.522	9.580	25.888	213.9	0.214
90	9.332	33.605	9.323	25.995	203.9	0.235
100	9.111	33.682	9.100	26.091	194.9	0.255
110	8.847	33.750	8.836	26.186	186.1	0.274
120	8.543	33.796	8.530	26.270	178.3	0.292
130	8.211	33.862	8.198	26.371	168.7	0.309
140	7.913	33.914	7.899	26.457	160.7	0.326
150	7.897	33.917	7.882	26.461	160.5	0.342
175	7.425	33.978	7.408	26.578	149.7	0.380
200	7.143	34.000	7.125	26.635	144.6	0.417
225	6.954	34.013	6.933	26.672	141.4	0.453
250	6.837	34.024	6.814	26.697	139.4	0.488
300	6.493	34.045	6.466	26.759	134.0	0.556
371	5.971	34.081	5.939	26.856	125.5	0.648

STA NO 57 EUR4 LAT: 40 52.0 N LONG:124 34.0 W
 14 APR 1983 2131 GMT PROBE 2561 DEPTH 550M
 33.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.102	32.465	12.102	24.625	332.5	0.003
10	11.242	32.484	11.241	24.797	316.3	0.032
20	11.152	32.503	11.149	24.828	313.5	0.064
30	11.102	32.512	11.098	24.844	312.2	0.095
40	11.087	32.532	11.082	24.862	310.7	0.126
50	10.993	32.561	10.987	24.902	307.2	0.157
60	10.785	32.672	10.778	25.024	295.7	0.187
70	10.453	33.157	10.445	25.459	254.6	0.215
80	10.230	33.349	10.221	25.647	236.9	0.239
90	9.842	33.425	9.832	25.772	225.2	0.262
100	9.230	33.405	9.219	25.856	217.3	0.284
110	8.950	33.441	8.939	25.928	210.5	0.306
120	8.898	33.612	8.885	26.070	197.3	0.326
130	8.921	33.755	8.908	26.179	187.2	0.345
140	8.832	33.796	8.817	26.225	183.0	0.364
150	8.758	33.831	8.742	26.264	179.4	0.382
175	7.817	33.928	7.799	26.483	158.9	0.424
200	7.400	33.979	7.381	26.583	149.7	0.463
225	6.907	34.017	6.886	26.681	140.5	0.499
250	6.490	34.039	6.467	26.755	133.7	0.533
300	6.067	34.059	6.042	26.825	127.5	0.598
400	5.436	34.116	5.403	26.949	116.6	0.720
500	5.107	34.167	5.067	27.029	109.9	0.834
545	4.802	34.220	4.760	27.106	102.8	0.882



STATION 57 EUR4

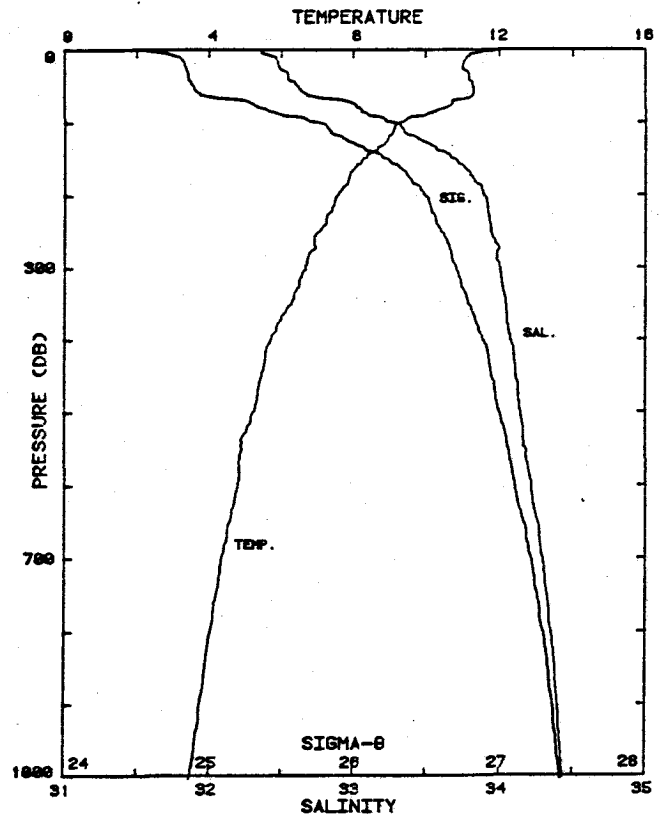


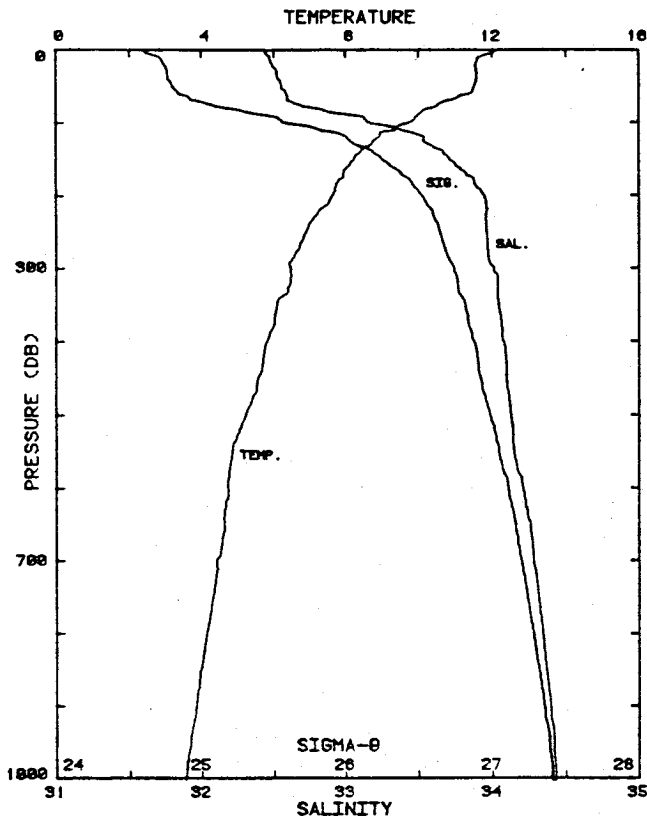
STA NO 58 EURS LAT: 40 52.0 N LONG:124 40.0 W
14 APR 1983 2226 GHT PROBE 2561 DEPTH 729M
42.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.109	32.490	12.109	24.642	330.8	0.003
10	11.283	32.489	11.282	24.793	316.6	0.032
20	11.240	32.493	11.238	24.804	315.8	0.064
30	11.237	32.498	11.233	24.809	315.6	0.095
40	11.220	32.501	11.215	24.814	315.3	0.127
50	11.222	32.512	11.216	24.822	314.7	0.158
60	11.272	32.572	11.265	24.861	311.3	0.190
70	10.914	33.026	10.905	25.277	272.0	0.219
80	9.871	33.128	9.862	25.535	247.5	0.245
90	9.440	33.249	9.430	25.700	231.9	0.269
100	9.124	33.372	9.113	25.847	218.1	0.291
110	9.076	33.610	9.065	26.041	199.9	0.312
120	9.199	33.724	9.186	26.110	193.6	0.332
130	9.076	33.815	9.062	26.201	185.1	0.351
140	8.872	33.856	8.857	26.265	179.2	0.369
150	8.672	33.894	8.657	26.328	173.4	0.387
175	8.278	33.944	8.260	26.427	164.4	0.429
200	7.707	33.959	7.688	26.523	155.5	0.469
225	7.181	34.005	7.160	26.634	145.1	0.506
250	6.904	34.020	6.881	26.685	140.6	0.542
300	6.377	34.048	6.350	26.777	132.3	0.610
400	5.591	34.092	5.558	26.912	120.3	0.736
500	5.014	34.181	4.975	27.051	107.8	0.850
600	4.597	34.253	4.551	27.156	98.5	0.954
737	4.230	34.318	4.175	27.248	90.7	1.083

STA NO 59 EUR6 LAT: 40 52.0 N LONG:124 48.0 W
14 APR 1983 2335 GHT PROBE 2561 DEPTH 1653M
53.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.993	32.362	11.993	24.565	338.1	0.003
10	11.142	32.444	11.141	24.783	317.5	0.033
20	11.014	32.476	11.011	24.831	313.2	0.064
30	11.107	32.521	11.104	24.849	311.7	0.096
40	11.176	32.545	11.172	24.856	311.3	0.127
50	11.285	32.610	11.279	24.888	308.5	0.158
60	11.298	32.664	11.290	24.927	305.0	0.188
70	10.837	32.926	10.829	25.212	278.1	0.218
80	10.545	33.037	10.536	25.350	265.1	0.245
90	9.988	33.107	9.978	25.499	251.1	0.271
100	9.319	33.264	9.308	25.732	229.1	0.295
110	9.112	33.345	9.101	25.828	220.1	0.317
120	8.969	33.430	8.957	25.917	211.8	0.339
130	8.848	33.524	8.834	26.010	203.2	0.360
140	8.590	33.601	8.576	26.110	193.8	0.379
150	8.307	33.687	8.292	26.221	183.4	0.398
175	7.880	33.815	7.863	26.385	168.2	0.442
200	7.557	33.894	7.537	26.494	158.2	0.483
225	7.348	33.922	7.327	26.545	153.6	0.521
250	7.051	33.944	7.027	26.604	148.3	0.559
300	6.652	34.003	6.625	26.706	139.2	0.631
400	5.694	34.076	5.661	26.886	122.8	0.762
500	5.215	34.144	5.175	26.998	113.0	0.879
600	4.781	34.217	4.734	27.107	103.4	0.987
800	4.018	34.355	3.959	27.299	86.0	1.175
1000	3.474	34.434	3.402	27.418	75.5	1.336
1003	3.471	34.435	3.399	27.419	75.4	1.338





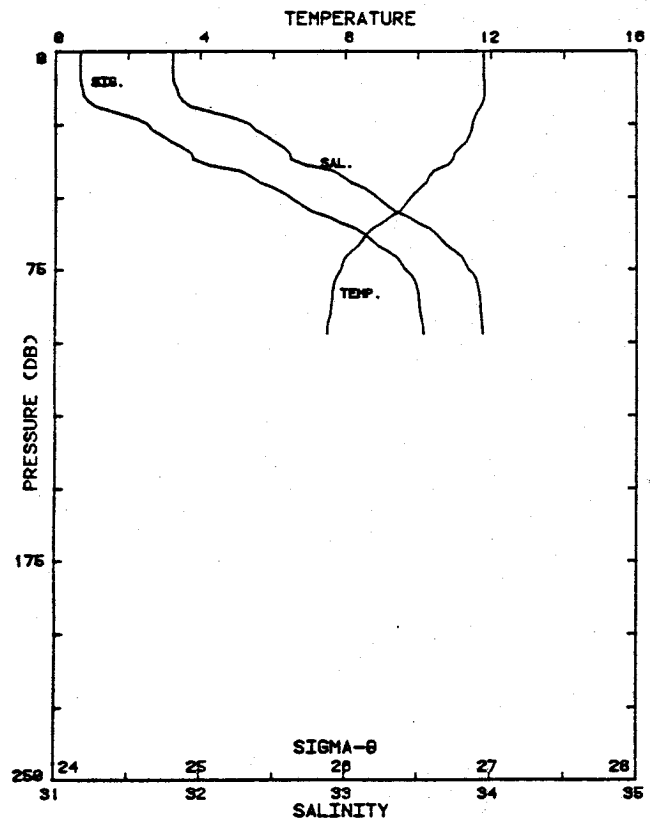
STATION 60 EUR7

STA NO 60 EUR7 LAT: 40 52.0 N LONG:124 56.0 W
 15 APR 1983 0026 GMT PROBE 2561 DEPTH 2930M
 64.6 KM FROM SHORE

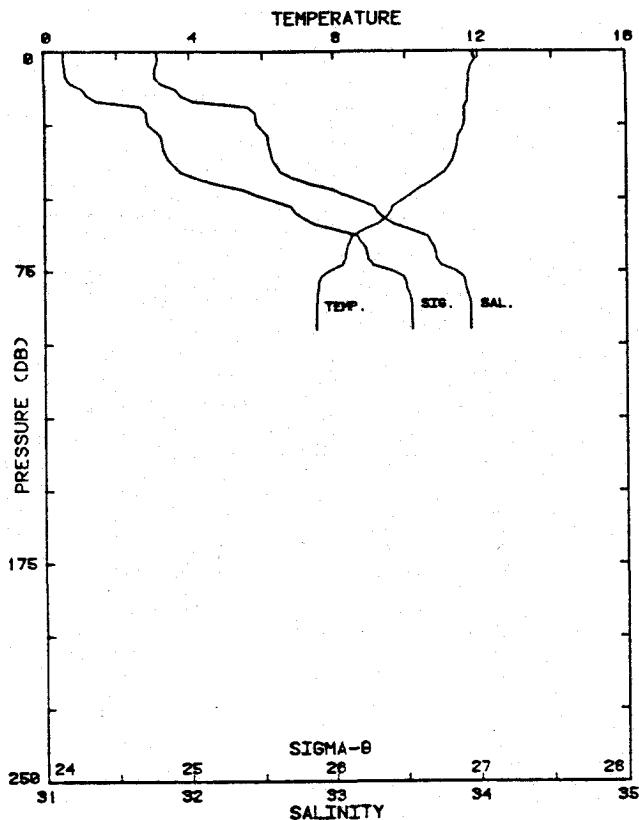
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.115	32.443	12.115	24.605	334.4	0.003
10	11.666	32.468	11.665	24.707	324.8	0.033
20	11.557	32.486	11.555	24.741	321.8	0.065
30	11.572	32.518	11.569	24.764	319.9	0.097
40	11.590	32.529	11.586	24.769	319.6	0.129
50	11.514	32.549	11.508	24.799	317.0	0.161
60	11.401	32.584	11.394	24.846	312.7	0.193
70	10.818	32.605	10.810	24.967	301.4	0.223
80	10.330	32.792	10.321	25.196	279.7	0.253
90	9.977	33.068	9.967	25.471	253.8	0.279
100	9.765	33.164	9.754	25.581	243.5	0.304
110	9.357	33.378	9.346	25.814	221.5	0.327
120	8.923	33.533	8.910	26.005	203.5	0.348
130	8.712	33.569	8.699	26.066	197.8	0.368
140	8.413	33.665	8.399	26.187	186.5	0.388
150	8.232	33.708	8.217	26.248	180.8	0.406
175	7.935	33.859	7.918	26.411	165.7	0.449
200	7.631	33.942	7.611	26.521	155.6	0.489
225	7.204	33.959	7.183	26.595	148.9	0.527
250	6.881	33.961	6.858	26.641	144.7	0.564
300	6.444	34.009	6.418	26.738	136.0	0.635
400	5.798	34.074	5.764	26.872	124.2	0.765
500	5.210	34.124	5.170	26.983	114.4	0.885
600	4.708	34.207	4.662	27.107	103.2	0.993
800	4.128	34.340	4.068	27.276	88.4	1.185
1000	3.543	34.432	3.471	27.410	76.4	1.349
1003	3.538	34.433	3.466	27.411	76.3	1.351

STA NO 61 LAT: 43 9.2 N LONG:124 34.7 W
 15 APR 1983 1511 GMT PROBE 2561 DEPTH 98M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.794	31.810	11.794	24.174	375.4	0.004
10	11.809	31.815	11.808	24.176	375.4	0.038
20	11.667	32.007	11.665	24.350	359.0	0.075
30	11.375	32.477	11.372	24.767	319.5	0.108
40	10.630	32.818	10.626	25.164	281.9	0.139
50	9.818	33.215	9.813	25.611	239.6	0.164
60	8.870	33.542	8.864	26.019	201.0	0.187
70	8.072	33.779	8.065	26.327	171.8	0.205
80	7.682	33.911	7.675	26.488	156.7	0.222
90	7.582	33.934	7.574	26.520	153.8	0.237
97	7.482	33.945	7.473	26.543	151.7	0.248



STATION 61



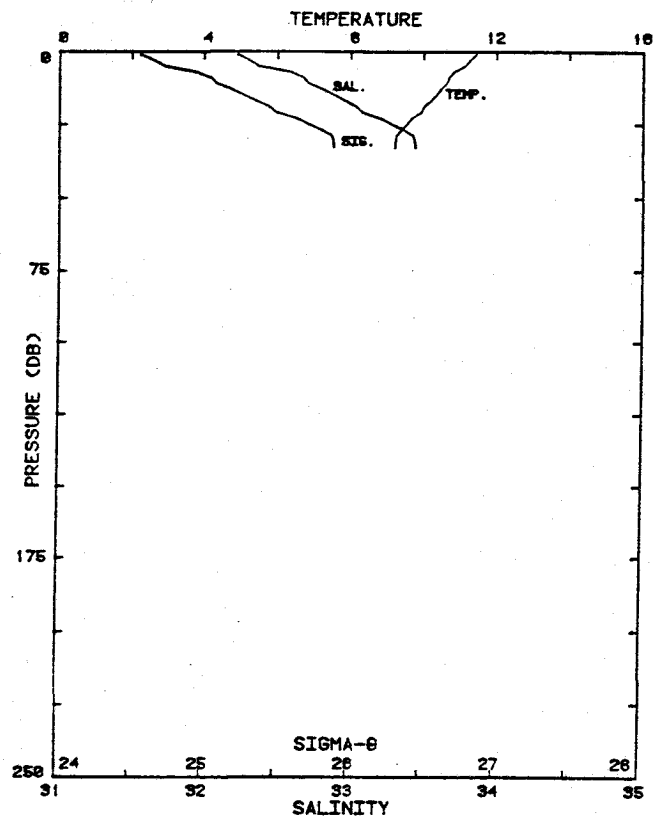
STATION 62

STA NO 62 LAT: 43 9.5 N LONG: 124 34.6 W
15 APR 1983 1916 GMT PROBE 2561 DEPTH 96M

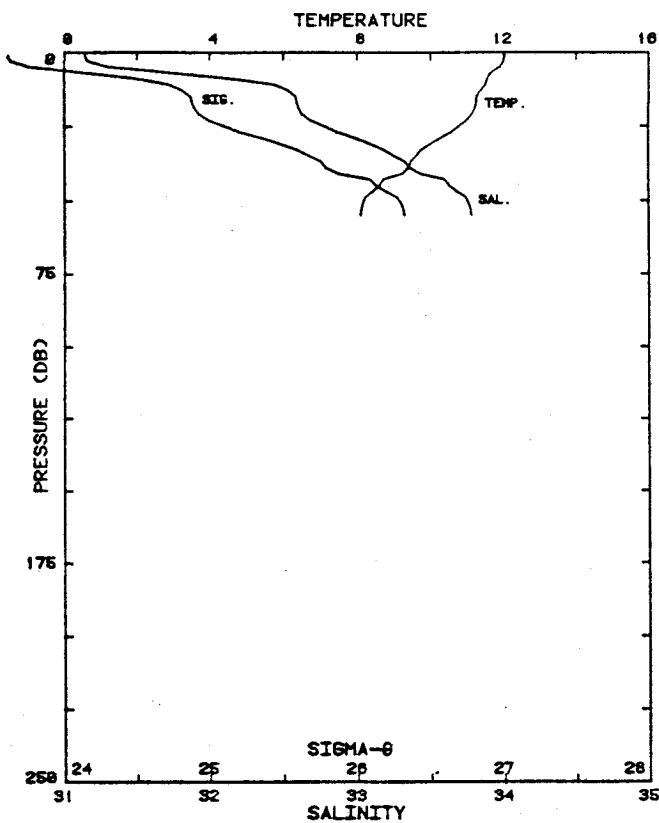
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.861	31.777	11.861	24.136	379.0	0.004
10	11.721	31.784	11.720	24.167	376.2	0.038
20	11.608	32.419	11.606	24.680	327.6	0.074
30	11.411	32.533	11.408	24.804	316.0	0.106
40	11.122	32.604	11.117	24.912	306.0	0.137
50	9.984	33.129	9.978	25.517	248.6	0.165
60	9.002	33.477	8.995	25.948	207.7	0.188
70	8.310	33.706	8.303	26.234	180.7	0.207
80	7.558	33.907	7.550	26.502	155.3	0.223
90	7.493	33.943	7.485	26.540	151.9	0.239
95	7.487	33.944	7.478	26.542	151.8	0.246

STA NO 63 FM1 LAT: 43 13.1 N LONG: 124 25.9 W
15 APR 1983 2015 GMT PROBE 2561 DEPTH 37M
3.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.433	32.222	11.433	24.559	338.7	0.003
10	10.653	32.693	10.652	25.062	291.0	0.032
20	9.970	33.060	9.968	25.464	253.0	0.059
30	9.239	33.436	9.236	25.878	213.8	0.082
33	9.225	33.445	9.221	25.886	213.0	0.088



STATION 63 FM1



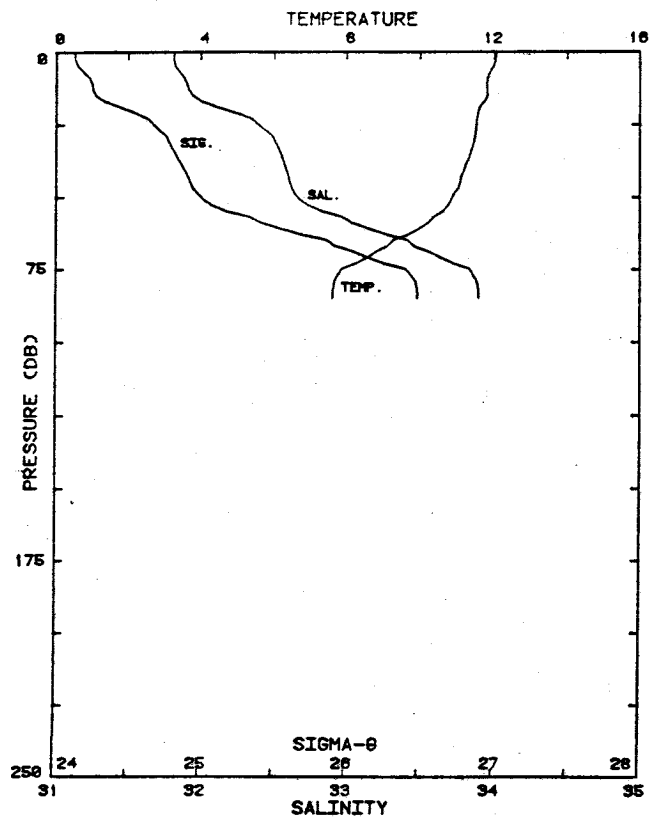
STATION 64 FM3

STA NO 64 FM3 LAT: 43 12.9 N LONG:124 30.1 W
 15 APR 1983 2050 GMT PROBE 2561 DEPTH 60M
 8.7 KM FROM SHORE

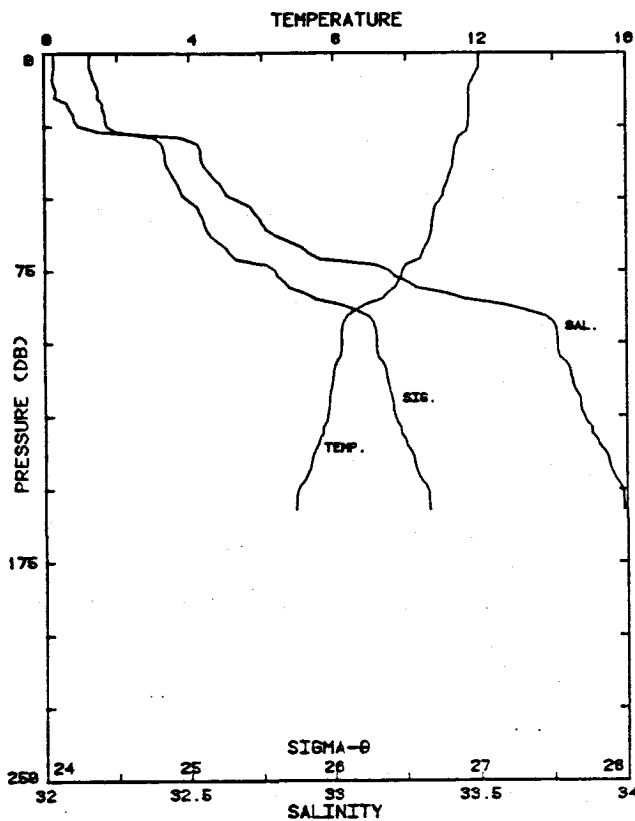
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.034	31.141	12.034	23.612	429.0	0.004
10	11.516	32.297	11.515	24.602	334.8	0.040
20	11.174	32.618	11.171	24.913	305.4	0.071
30	10.140	33.036	10.137	25.417	257.6	0.100
40	9.321	33.393	9.317	25.830	218.5	0.123
50	8.181	33.750	8.176	26.287	175.3	0.142
55	8.087	33.779	8.081	26.324	171.8	0.151

STA NO 65 FM4 LAT: 43 13.0 N LONG:124 35.0 W
 15 APR 1983 2126 GMT PROBE 2561 DEPTH 87M
 15.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.055	31.816	12.055	24.130	379.5	0.004
10	11.794	31.895	11.793	24.240	369.3	0.038
20	11.575	32.169	11.573	24.493	345.4	0.074
30	11.449	32.494	11.445	24.768	319.5	0.107
40	11.184	32.577	11.179	24.880	309.0	0.138
50	10.862	32.655	10.856	24.998	298.0	0.169
60	10.091	33.090	10.084	25.469	253.4	0.196
70	8.678	33.598	8.670	26.093	194.1	0.219
80	7.641	33.885	7.634	26.473	158.1	0.236
85	7.606	33.894	7.597	26.485	157.0	0.244



STATION 65 FM4



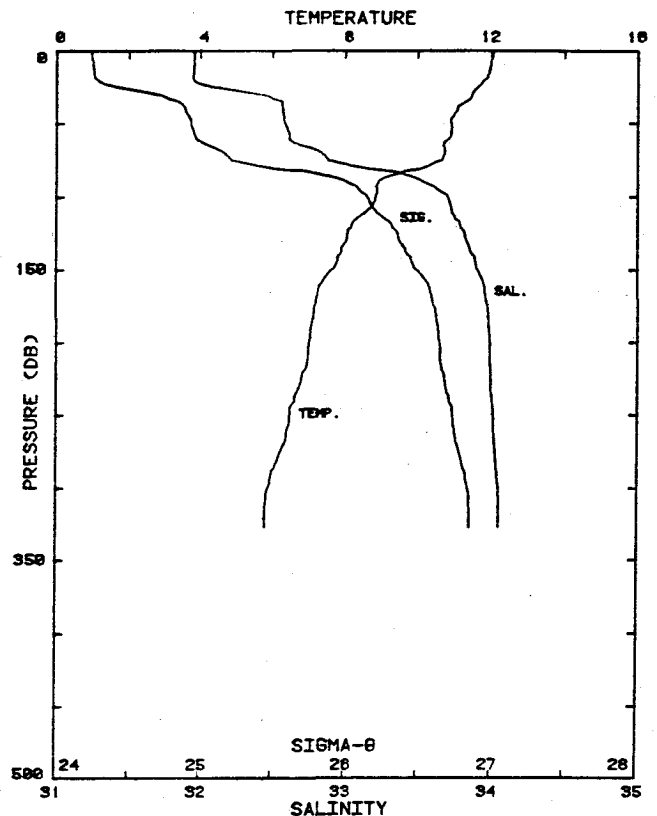
STATION 66 FMS

STA NO 66 FMS LAT: 43 13.0 N LONG: 124 40.1 W
 15 APR 1983 2204 GMT PROBE 2561 DEPTH 164M
 22.4 KM FROM SHORE

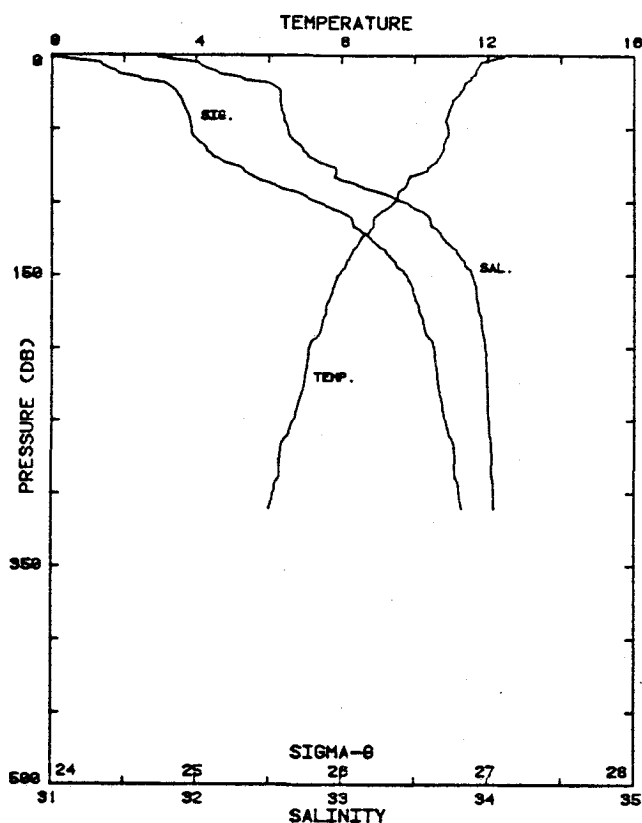
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.991	32.032	11.991	24.310	362.4	0.004
10	11.775	32.031	11.773	24.349	358.9	0.036
20	11.717	32.094	11.714	24.408	353.5	0.072
30	11.403	32.499	11.400	24.780	318.3	0.106
40	11.238	32.560	11.233	24.857	311.2	0.138
50	10.960	32.649	10.954	24.976	300.1	0.168
60	10.687	32.757	10.680	25.107	287.8	0.197
70	10.399	32.931	10.391	25.293	270.4	0.225
80	9.723	33.273	9.714	25.672	234.4	0.250
90	8.451	33.693	8.442	26.203	184.0	0.271
100	8.206	33.764	8.196	26.295	175.4	0.289
110	7.990	33.808	7.979	26.362	169.2	0.306
120	7.866	33.842	7.854	26.407	165.1	0.323
130	7.695	33.882	7.683	26.464	159.8	0.339
140	7.370	33.938	7.356	26.554	151.4	0.355
150	6.992	33.984	6.978	26.642	143.0	0.370
157	6.921	33.990	6.906	26.657	141.7	0.380

STA NO 67 FM6 LAT: 43 12.8 N LONG: 124 45.4 W
 15 APR 1983 2244 GMT PROBE 2561 DEPTH 330M
 29.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.036	31.953	12.036	24.240	369.1	0.004
10	11.968	31.953	11.967	24.253	368.1	0.037
20	11.815	31.952	11.812	24.281	365.7	0.074
30	11.474	32.399	11.470	24.689	326.9	0.109
40	11.067	32.567	11.063	24.893	307.8	0.140
50	10.897	32.583	10.891	24.935	303.9	0.171
60	10.846	32.613	10.839	24.968	301.1	0.201
70	10.723	32.830	10.714	25.158	283.2	0.230
80	10.189	33.107	10.180	25.465	254.1	0.257
90	8.915	33.539	8.906	26.010	202.4	0.280
100	8.840	33.701	8.829	26.149	189.4	0.299
110	8.586	33.729	8.574	26.210	183.8	0.318
120	8.157	33.788	8.145	26.322	173.2	0.336
130	8.026	33.828	8.014	26.372	168.6	0.353
140	7.840	33.877	7.827	26.438	162.5	0.369
150	7.645	33.906	7.631	26.490	157.7	0.385
175	7.164	33.971	7.147	26.610	146.6	0.423
200	6.996	33.990	6.978	26.647	143.4	0.459
225	6.797	33.997	6.776	26.681	140.5	0.495
250	6.470	34.013	6.448	26.737	135.4	0.529
300	5.892	34.051	5.867	26.841	125.9	0.595
327	5.803	34.055	5.776	26.856	124.8	0.629



STATION 67 FM6



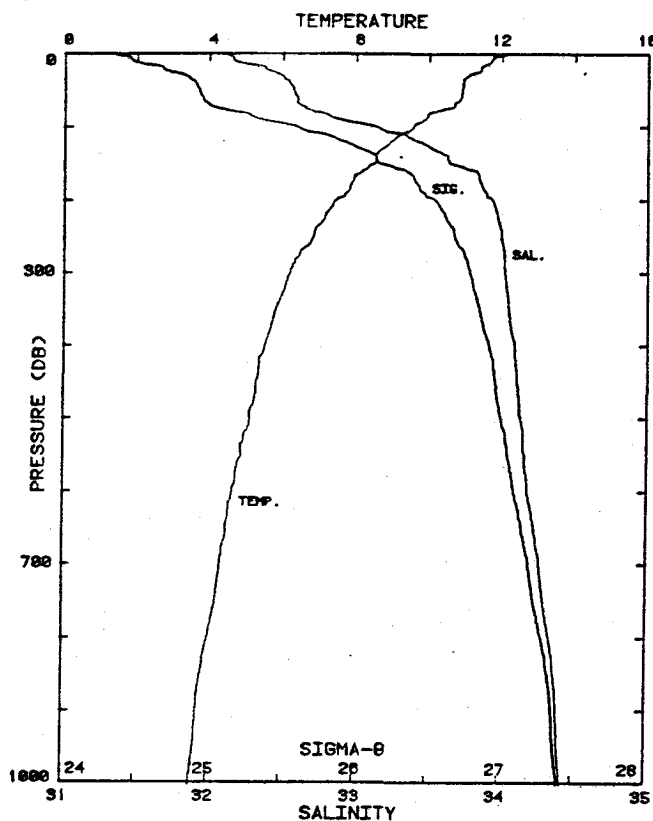
STATION 68 FM7

STA NO 68 FM7 LAT: 43 13.0 N LONG: 124 50.0 W
 16 APR 1983 0060 GMT PROBE 2561 DEPTH 332M
 35.9 KM FROM SHORE

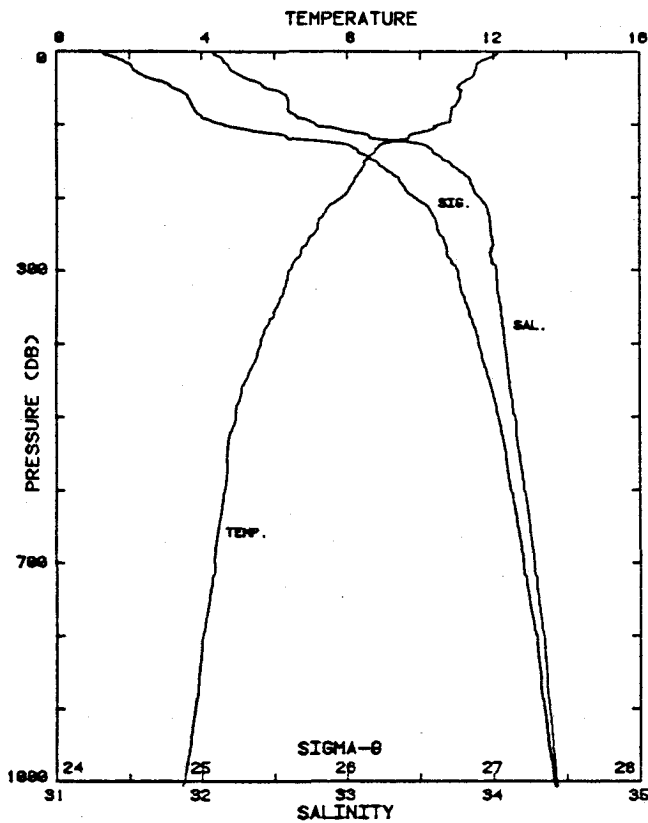
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.413	31.740	12.413	24.005	391.5	0.004
10	11.689	32.105	11.688	24.422	351.9	0.037
20	11.367	32.518	11.365	24.800	316.1	0.071
30	11.081	32.577	11.078	24.898	307.1	0.102
40	10.913	32.597	10.908	24.943	302.9	0.132
50	10.912	32.630	10.906	24.969	300.7	0.162
60	10.803	32.694	10.796	25.038	294.4	0.192
70	10.653	32.793	10.645	25.141	284.8	0.221
80	10.197	32.959	10.188	25.349	265.2	0.249
90	9.723	33.143	9.713	25.572	244.2	0.274
100	9.442	33.419	9.431	25.833	219.5	0.297
110	8.944	33.591	8.932	26.047	199.3	0.318
120	8.763	33.661	8.750	26.130	191.6	0.338
130	8.419	33.742	8.406	26.246	180.6	0.356
140	8.151	33.830	8.137	26.356	170.4	0.374
150	7.916	33.893	7.901	26.440	162.5	0.390
175	7.549	33.937	7.532	26.528	154.5	0.430
200	7.089	33.984	7.071	26.630	145.0	0.467
225	6.948	33.995	6.927	26.659	142.7	0.503
250	6.658	34.006	6.636	26.706	138.4	0.539
300	6.103	34.039	6.077	26.805	129.4	0.605
311	5.991	34.044	5.965	26.823	127.8	0.619

STA NO 69 FM8 LAT: 43 13.0 N LONG: 125 0.0 W
 16 APR 1983 0110 GMT PROBE 2561 DEPTH 1078M
 49.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.095	32.123	12.095	24.361	357.6	0.004
10	11.691	32.173	11.689	24.474	347.0	0.035
20	11.419	32.377	11.417	24.682	327.4	0.069
30	11.066	32.487	11.062	24.831	313.5	0.101
40	10.914	32.546	10.909	24.903	306.8	0.132
50	10.886	32.573	10.880	24.929	304.5	0.163
60	10.863	32.599	10.856	24.954	302.4	0.193
70	10.682	32.613	10.674	24.997	298.5	0.223
80	10.073	32.740	10.064	25.199	279.4	0.252
90	9.858	32.899	9.848	25.359	264.4	0.279
100	9.556	33.140	9.545	25.597	242.0	0.305
110	9.255	33.305	9.243	25.774	225.3	0.328
120	8.991	33.431	8.979	25.914	212.1	0.350
130	8.725	33.526	8.712	26.030	201.2	0.371
140	8.541	33.625	8.526	26.136	191.3	0.390
150	8.511	33.651	8.495	26.161	189.1	0.409
175	7.914	33.852	7.897	26.408	166.0	0.453
200	7.458	33.939	7.439	26.543	153.5	0.493
225	7.142	33.976	7.121	26.617	146.7	0.530
250	6.844	33.999	6.821	26.676	141.4	0.566
300	6.203	34.027	6.176	26.783	131.6	0.634
400	5.541	34.092	5.508	26.917	119.7	0.760
500	5.129	34.136	5.089	27.002	112.5	0.876
600	4.678	34.185	4.632	27.092	104.5	0.984
800	4.027	34.342	3.967	27.288	87.1	1.175
1000	3.534	34.426	3.462	27.406	76.7	1.337
1003	3.530	34.427	3.458	27.407	76.7	1.339



STATION 69 FM8



STATION 70 FM9

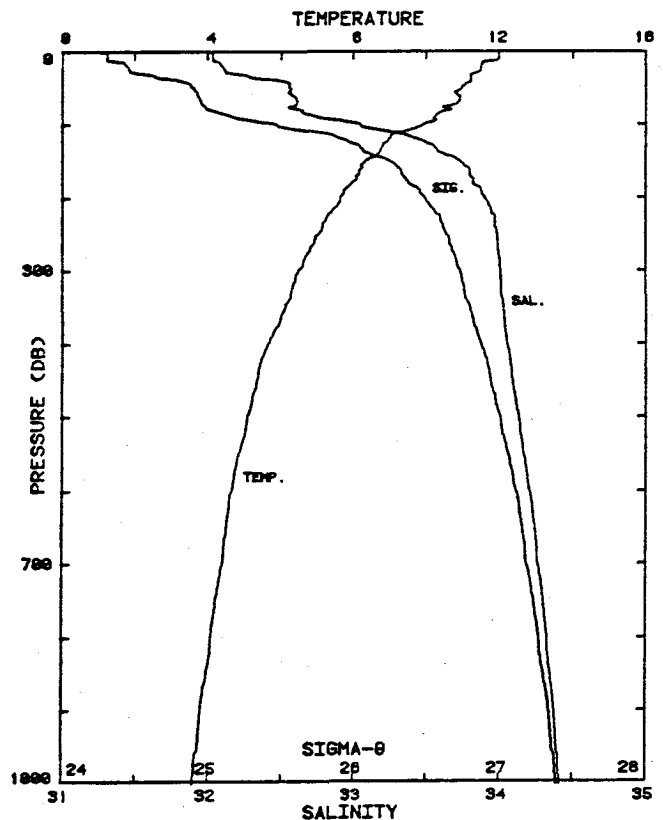
STA NO 70 FM9 LAT: 43 13.0 N LONG: 125 10.0 W
 16 APR 1983 0236 GMT PROBE 2561 DEPTH 1652M
 63.1 KM FROM SHORE

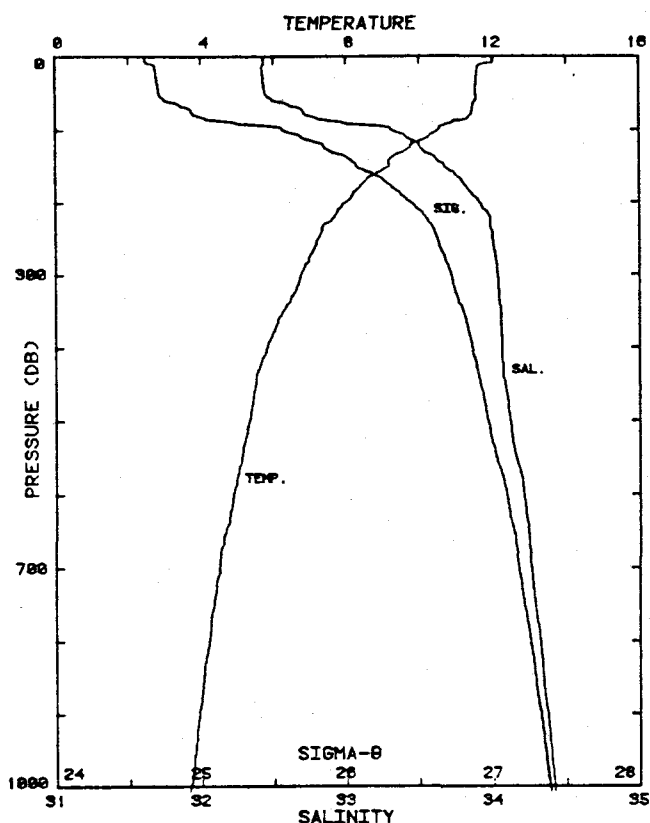
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.093	32.090	12.093	24.335	360.0	0.004
10	11.836	32.144	11.834	24.425	351.7	0.036
20	11.530	32.186	11.527	24.514	343.4	0.070
30	11.483	32.241	11.479	24.565	338.8	0.105
40	11.241	32.355	11.236	24.698	326.4	0.138
50	11.023	32.446	11.017	24.807	316.2	0.170
60	11.085	32.583	11.078	24.902	307.3	0.201
70	11.010	32.597	11.001	24.927	305.2	0.232
80	10.860	32.594	10.850	24.951	303.1	0.262
90	10.818	32.657	10.807	25.007	298.0	0.292
100	10.548	32.783	10.537	25.153	284.3	0.321
110	10.115	33.006	10.103	25.399	261.0	0.349
120	9.612	33.191	9.599	25.627	239.5	0.374
130	8.875	33.548	8.861	26.024	201.8	0.395
140	8.723	33.596	8.709	26.086	196.1	0.415
150	8.491	33.672	8.476	26.181	187.2	0.434
175	8.204	33.837	8.186	26.354	171.2	0.479
200	7.855	33.903	7.836	26.457	161.8	0.521
225	7.328	33.968	7.307	26.585	149.9	0.560
250	7.094	33.981	7.071	26.627	146.1	0.596
300	6.402	34.021	6.376	26.753	134.6	0.667
400	5.606	34.077	5.573	26.898	121.6	0.795
500	4.937	34.147	4.898	27.033	109.4	0.911
600	4.628	34.210	4.581	27.118	102.1	1.016
800	4.011	34.341	3.951	27.289	87.0	1.205
1000	3.489	34.431	3.417	27.414	75.9	1.369
1007	3.455	34.437	3.383	27.422	75.1	1.374

STA NO 71 FM10 LAT: 43 13.0 N LONG: 125 20.1 W
 16 APR 1983 0401 GMT PROBE 2561 DEPTH 2997M
 76.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.986	32.028	11.986	24.307	362.7	0.004
10	12.000	32.033	11.999	24.309	362.7	0.036
20	11.512	32.098	11.509	24.449	349.6	0.072
30	11.384	32.152	11.380	24.514	343.6	0.107
40	11.239	32.487	11.234	24.800	316.6	0.140
50	10.992	32.560	10.986	24.901	307.2	0.171
60	10.880	32.575	10.873	24.932	304.5	0.201
70	10.895	32.610	10.887	24.957	302.4	0.232
80	10.675	32.628	10.666	25.010	297.5	0.262
90	10.237	32.744	10.227	25.175	281.9	0.291
100	9.957	33.044	9.945	25.456	255.4	0.318
110	9.410	33.233	9.398	25.692	233.0	0.342
120	8.994	33.431	8.981	25.914	212.1	0.364
130	8.797	33.554	8.783	26.041	200.2	0.385
140	8.700	33.606	8.686	26.097	195.1	0.405
150	8.357	33.726	8.342	26.243	181.3	0.423
175	8.096	33.826	8.078	26.361	170.5	0.467
200	7.642	33.903	7.623	26.489	158.7	0.508
225	7.278	33.969	7.257	26.592	149.1	0.547
250	7.047	33.988	7.024	26.640	144.9	0.584
300	6.477	34.012	6.451	26.736	136.2	0.654
400	5.638	34.057	5.605	26.878	123.5	0.784
500	5.056	34.138	5.016	27.012	111.5	0.902
600	4.636	34.211	4.589	27.118	102.1	1.009
800	4.073	34.328	4.014	27.272	88.7	1.199
1000	3.575	34.415	3.503	27.392	78.1	1.366
1003	3.574	34.415	3.501	27.393	78.1	1.368

STATION 71 FM10



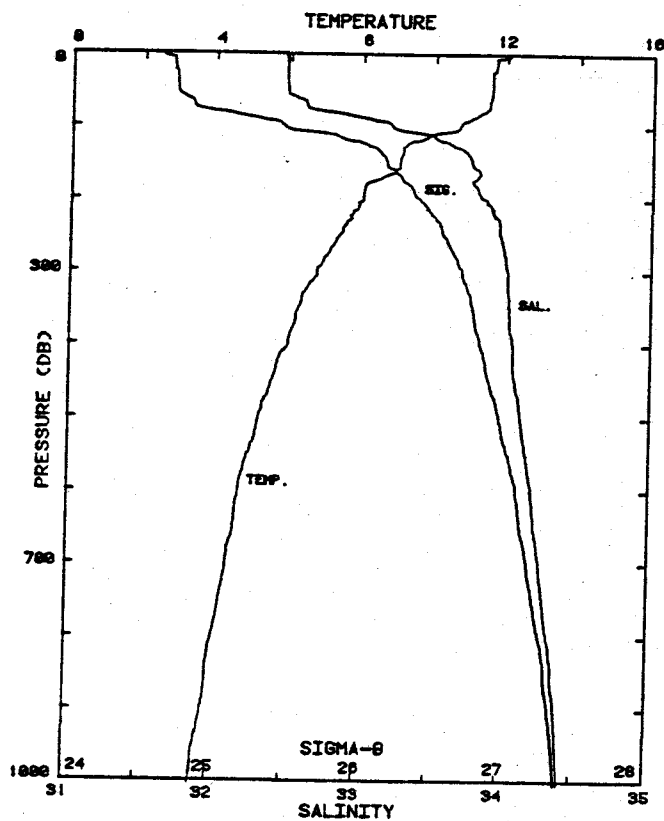


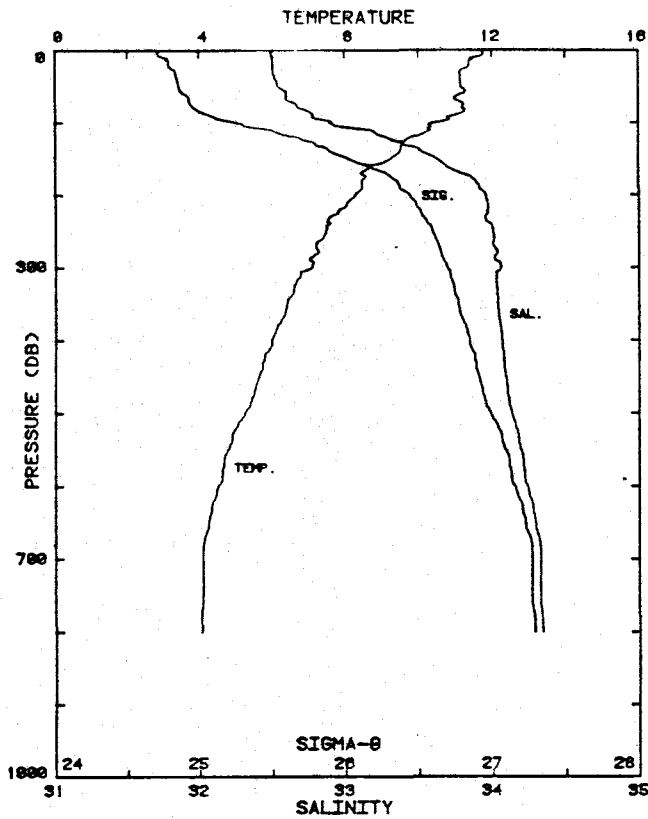
STA NO 72 CR9 LAT: 41 54.0 N LONG:125 20.0 W
16 APR 1983 1141 GMT PROBE 2561 DEPTH 3087M
93.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.026	32.433	12.025	24.614	333.5	0.003
10	11.819	32.435	11.817	24.654	329.9	0.033
20	11.571	32.425	11.568	24.692	326.5	0.066
30	11.550	32.429	11.547	24.699	326.0	0.099
40	11.534	32.436	11.529	24.707	325.5	0.131
50	11.531	32.445	11.525	24.715	325.0	0.164
60	11.521	32.508	11.514	24.766	320.4	0.196
70	11.444	32.678	11.435	24.912	306.7	0.227
80	11.384	32.736	11.375	24.968	301.6	0.258
90	10.906	32.982	10.895	25.244	275.5	0.287
100	10.525	33.312	10.514	25.567	245.0	0.313
110	10.253	33.412	10.240	25.692	233.3	0.337
120	9.789	33.499	9.776	25.838	219.5	0.359
130	9.593	33.534	9.579	25.898	214.0	0.381
140	9.230	33.615	9.215	26.021	202.5	0.402
150	9.178	33.669	9.162	26.071	197.9	0.422
175	8.455	33.804	8.437	26.290	177.4	0.468
200	8.021	33.907	8.001	26.436	163.8	0.511
225	7.617	33.985	7.595	26.557	152.7	0.550
250	7.232	33.997	7.208	26.621	146.8	0.588
300	6.744	34.031	6.717	26.715	138.4	0.659
400	5.819	34.059	5.785	26.857	125.6	0.791
500	5.323	34.114	5.282	26.962	116.5	0.912
600	4.863	34.202	4.815	27.086	105.4	1.023
800	4.199	34.316	4.139	27.250	91.0	1.218
1000	3.663	34.415	3.590	27.384	79.1	1.389
1007	3.653	34.416	3.580	27.386	78.9	1.394

STA NO 73 CR8 LAT: 41 54.0 N LONG:125 12.0 W
16 APR 1983 1302 GMT PROBE 2561 DEPTH 2727M
82.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.069	32.471	12.069	24.635	331.4	0.003
10	11.706	32.474	11.704	24.705	325.0	0.033
20	11.668	32.474	11.666	24.712	324.5	0.065
30	11.581	32.475	11.577	24.729	323.2	0.098
40	11.582	32.477	11.577	24.730	323.3	0.130
50	11.588	32.480	11.582	24.732	323.4	0.162
60	11.558	32.539	11.551	24.783	318.7	0.195
70	11.509	32.608	11.500	24.846	313.0	0.226
80	11.354	32.778	11.345	25.006	298.0	0.257
90	10.963	33.066	10.953	25.300	270.2	0.285
100	10.690	33.207	10.678	25.458	255.4	0.311
110	9.982	33.438	9.969	25.758	226.9	0.336
120	9.469	33.566	9.456	25.943	209.5	0.358
130	9.111	33.688	9.097	26.096	195.1	0.378
140	9.074	33.744	9.059	26.146	190.5	0.397
150	9.030	33.762	9.014	26.167	188.7	0.416
175	8.322	33.766	8.304	26.281	178.2	0.462
200	8.031	33.862	8.011	26.400	167.3	0.505
225	7.718	33.946	7.696	26.512	157.0	0.545
250	7.412	33.972	7.388	26.576	151.1	0.584
300	6.780	34.024	6.752	26.705	139.4	0.656
400	6.017	34.064	5.982	26.837	127.7	0.789
500	5.255	34.124	5.214	26.978	114.9	0.911
600	4.736	34.204	4.689	27.101	103.8	1.020
800	4.074	34.329	4.015	27.273	88.6	1.213
1000	3.548	34.423	3.476	27.402	77.2	1.378
1005	3.539	34.424	3.466	27.403	77.0	1.382



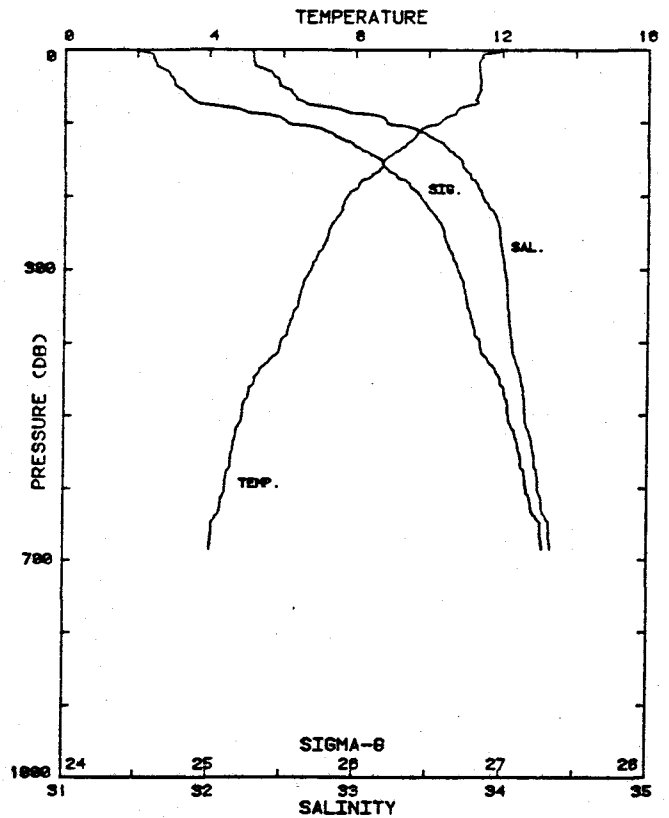


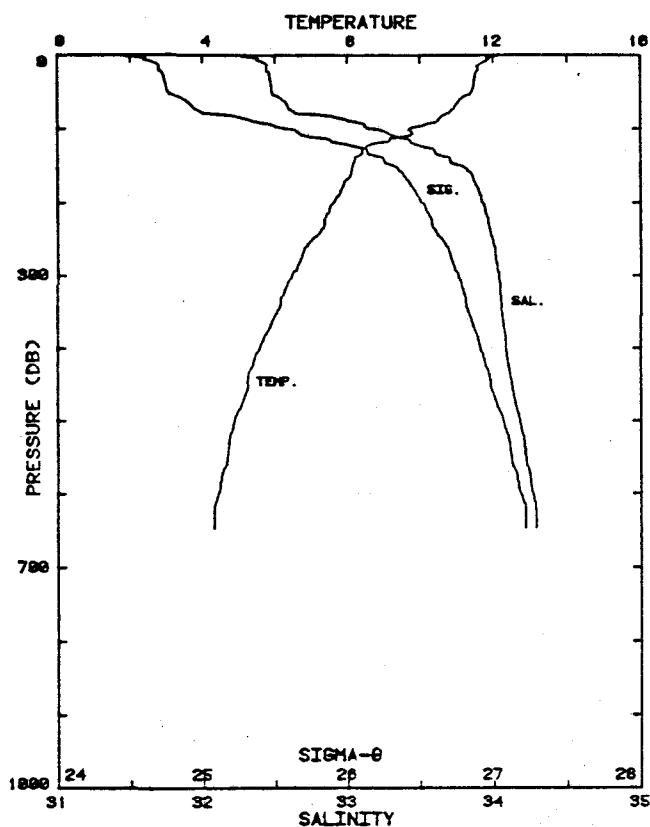
STA NO 74 CR7 LAT: 41 54.0 N LONG:125 0.0 W
 16 APR 1983 1448 GMT PROBE 2561 DEPTH 847M
 66.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.745	32.495	11.745	24.714	323.9	0.003
10	11.531	32.507	11.530	24.762	319.5	0.032
20	11.373	32.505	11.371	24.789	317.2	0.064
30	11.117	32.507	11.114	24.837	312.9	0.096
40	11.130	32.524	11.125	24.848	312.0	0.127
50	11.154	32.542	11.148	24.858	311.3	0.158
60	11.186	32.598	11.179	24.896	307.9	0.189
70	11.041	32.610	11.032	24.931	304.8	0.220
80	11.188	32.688	11.178	24.966	301.8	0.250
90	10.994	32.782	10.984	25.074	291.7	0.280
100	10.511	32.901	10.499	25.250	275.1	0.308
110	10.287	33.126	10.275	25.464	255.0	0.335
120	9.906	33.270	9.892	25.640	238.3	0.360
130	9.568	33.399	9.554	25.797	223.5	0.383
140	9.512	33.514	9.497	25.896	214.4	0.405
150	9.272	33.616	9.255	26.015	203.2	0.426
175	8.561	33.850	8.543	26.309	175.6	0.473
200	8.283	33.954	8.262	26.434	164.2	0.515
225	7.836	33.970	7.814	26.513	156.9	0.555
250	7.475	34.004	7.451	26.592	149.7	0.594
300	7.074	34.058	7.046	26.692	140.9	0.666
400	5.970	34.064	5.936	26.843	127.1	0.800
500	5.241	34.131	5.201	26.985	114.2	0.922
600	4.513	34.238	4.467	27.153	98.6	1.027
800	4.039	34.341	3.979	27.287	87.3	1.207
801	4.038	34.342	3.978	27.287	87.2	1.208

STA NO 75 CR6 LAT: 41 54.0 N LONG:124 48.0 W
 16 APR 1983 1615 GMT PROBE 2561 DEPTH 685M
 49.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.969	32.284	11.969	24.509	343.5	0.003
10	11.444	32.293	11.443	24.612	333.8	0.034
20	11.355	32.301	11.353	24.635	331.9	0.067
30	11.379	32.404	11.375	24.710	324.9	0.100
40	11.396	32.463	11.391	24.753	321.1	0.132
50	11.396	32.485	11.390	24.770	319.7	0.164
60	11.356	32.563	11.348	24.838	313.5	0.196
70	11.299	32.612	11.290	24.887	309.1	0.227
80	10.859	32.837	10.849	25.140	285.2	0.257
90	10.622	33.135	10.611	25.413	259.4	0.285
100	10.309	33.214	10.298	25.529	248.6	0.310
110	9.790	33.421	9.778	25.777	225.1	0.334
120	9.631	33.514	9.618	25.876	215.9	0.356
130	9.397	33.604	9.383	25.985	205.7	0.377
140	9.132	33.654	9.117	26.066	198.1	0.397
150	8.827	33.718	8.811	26.165	188.8	0.416
175	8.393	33.781	8.375	26.281	178.2	0.462
200	7.778	33.865	7.758	26.439	163.4	0.505
225	7.577	33.951	7.555	26.536	154.6	0.544
250	7.263	33.984	7.239	26.607	148.2	0.582
300	6.793	34.019	6.766	26.699	140.0	0.654
400	5.949	34.070	5.915	26.851	126.4	0.788
500	4.910	34.159	4.871	27.045	108.1	0.903
600	4.460	34.251	4.415	27.169	97.0	1.005
685	4.047	34.339	3.997	27.282	86.6	1.082





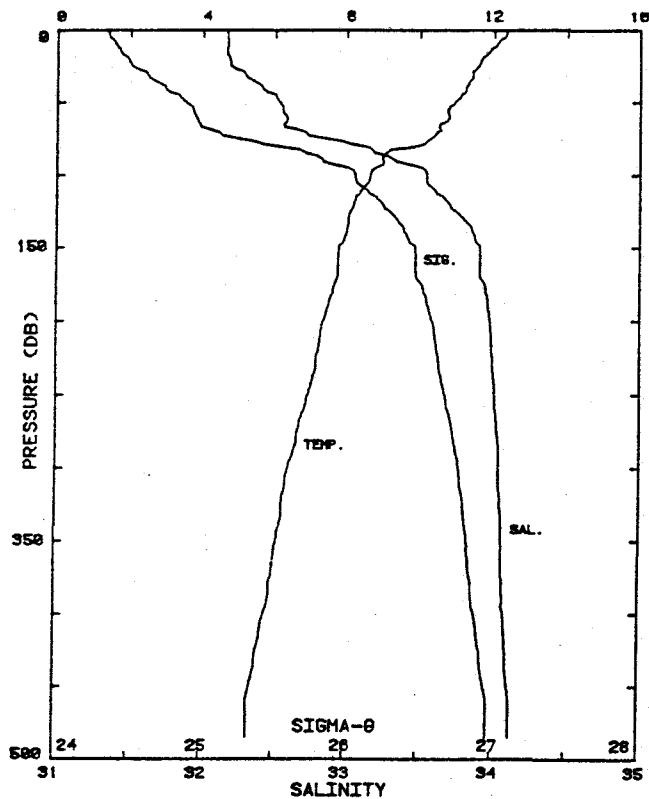
STATION 76 CR5

STA NO 76 CR5 LAT: 41 54.0 N LONG:124 42.0 W
16 APR 1983 1717 GMT PROBE 2561 DEPTH 645M
41.1 KM FROM SHORE

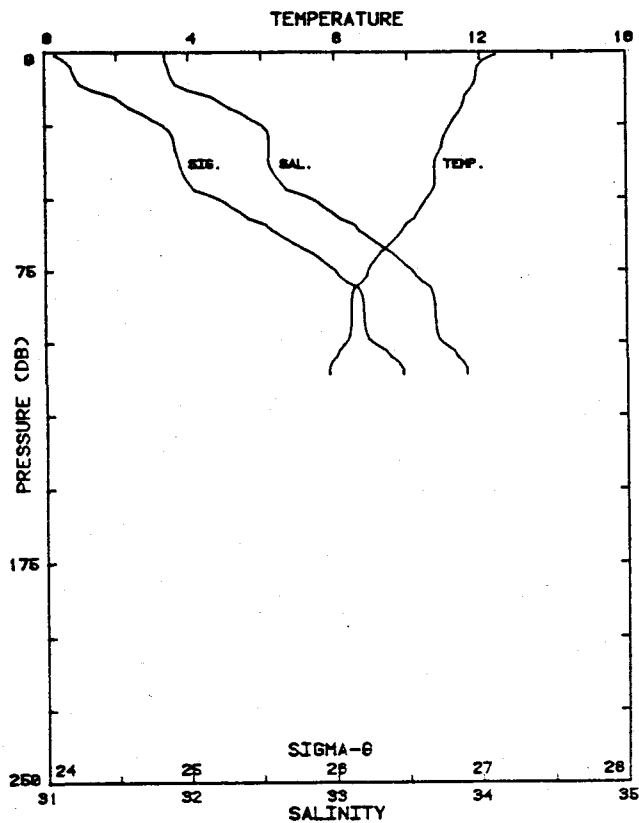
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.116	32.278	12.115	24.477	346.5	0.003
10	11.727	32.422	11.726	24.661	329.2	0.034
20	11.586	32.440	11.584	24.701	325.6	0.066
30	11.499	32.464	11.496	24.735	322.6	0.099
40	11.465	32.474	11.460	24.750	321.4	0.131
50	11.400	32.479	11.394	24.765	320.2	0.163
60	11.100	32.549	11.093	24.873	310.1	0.195
70	10.945	32.588	10.937	24.931	304.8	0.225
80	10.727	32.725	10.717	25.076	291.2	0.255
90	10.456	33.040	10.446	25.368	263.7	0.283
100	9.711	33.179	9.700	25.601	241.6	0.308
110	9.645	33.327	9.633	25.728	229.8	0.332
120	8.747	33.455	8.735	25.971	206.6	0.353
130	8.406	33.600	8.393	26.137	191.0	0.373
140	8.208	33.702	8.194	26.247	180.7	0.392
150	8.142	33.774	8.127	26.313	174.6	0.410
175	7.893	33.881	7.876	26.435	163.4	0.452
200	7.614	33.927	7.595	26.511	156.5	0.492
225	7.350	33.967	7.329	26.580	150.3	0.530
250	7.021	33.996	6.998	26.649	144.0	0.567
300	6.439	34.034	6.412	26.758	134.1	0.636
400	5.559	34.085	5.526	26.910	120.4	0.764
500	4.858	34.178	4.819	27.066	106.1	0.877
600	4.409	34.266	4.364	27.186	95.3	0.978
647	4.299	34.289	4.251	27.217	92.8	1.022

STA NO 77 CR4 LAT: 41 54.0 N LONG:124 36.0 W
16 APR 1983 1818 GMT PROBE 2561 DEPTH 487M
32.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.334	32.164	12.334	24.348	358.8	0.004
10	12.058	32.170	12.057	24.404	353.7	0.036
20	11.661	32.182	11.658	24.487	346.0	0.071
30	11.420	32.287	11.417	24.612	334.3	0.105
40	11.242	32.411	11.238	24.741	322.3	0.138
50	10.949	32.532	10.943	24.887	308.6	0.169
60	10.783	32.580	10.776	24.953	302.4	0.200
70	10.512	32.693	10.504	25.088	289.8	0.230
80	9.962	33.095	9.953	25.494	251.4	0.257
90	8.999	33.328	8.990	25.832	219.3	0.280
100	8.647	33.547	8.637	26.058	198.0	0.301
110	8.422	33.593	8.411	26.129	191.4	0.320
120	8.193	33.696	8.181	26.245	180.6	0.339
130	8.056	33.792	8.043	26.340	171.7	0.356
140	8.002	33.863	7.988	26.403	165.8	0.373
150	7.800	33.908	7.786	26.469	159.8	0.390
175	7.679	33.940	7.662	26.512	156.1	0.429
200	7.362	33.980	7.343	26.589	149.1	0.468
225	7.164	33.996	7.143	26.629	145.5	0.504
250	6.937	34.012	6.914	26.674	141.6	0.540
300	6.390	34.040	6.364	26.769	133.0	0.609
400	5.763	34.083	5.729	26.884	123.1	0.737
485	5.319	34.126	5.279	26.972	115.4	0.837



STATION 77 CR4



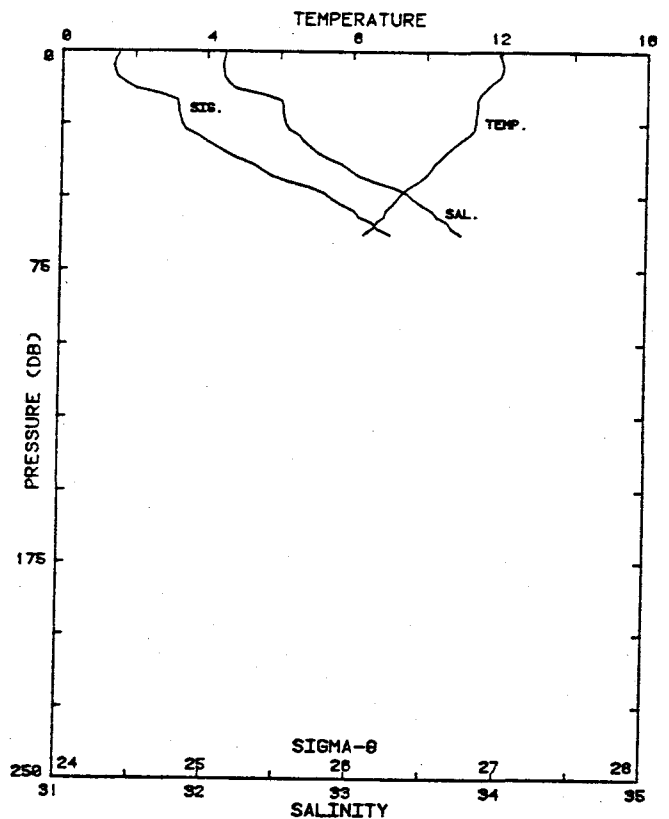
STATION 78 CR3

STA NO 78 CR3 LAT: 41 54.0 N LONG: 124 29.0 W
 16 APR 1983 1915 GMT PROBE 2561 DEPTH 118M
 23.1 KM FROM SHORE

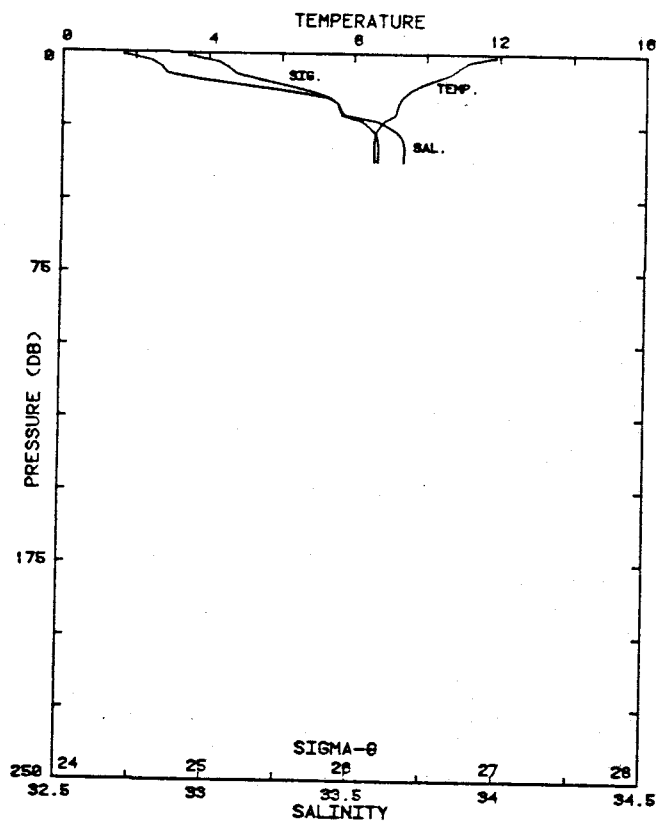
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.451	31.837	12.451	24.073	385.0	0.004
10	11.856	31.898	11.855	24.231	370.1	0.038
20	11.442	32.321	11.440	24.634	331.9	0.073
30	10.977	32.549	10.974	24.895	307.4	0.104
40	10.744	32.567	10.739	24.950	302.3	0.135
50	10.528	32.835	10.522	25.195	279.2	0.164
60	9.891	33.150	9.884	25.548	245.8	0.191
70	9.174	33.417	9.166	25.874	215.0	0.214
80	8.639	33.628	8.630	26.123	191.5	0.234
90	8.440	33.687	8.431	26.200	184.3	0.253
100	8.313	33.736	8.303	26.257	179.0	0.271
110	7.825	33.904	7.814	26.461	159.8	0.288
111	7.822	33.905	7.811	26.463	159.7	0.289

STA NO 79 CR2 LAT: 41 54.0 N LONG: 124 24.0 W
 16 APR 1983 1952 GMT PROBE 2561 DEPTH 67M
 16.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.939	32.119	11.939	24.387	355.1	0.004
10	11.872	32.130	11.870	24.408	353.3	0.036
20	11.362	32.518	11.360	24.801	316.0	0.069
30	11.025	32.648	11.021	24.963	300.9	0.100
40	10.179	32.953	10.174	25.346	264.6	0.128
50	9.282	33.387	9.276	25.833	218.5	0.153
60	8.602	33.659	8.596	26.152	188.3	0.173
63	8.314	33.737	8.308	26.257	178.3	0.178



STATION 79 CR2

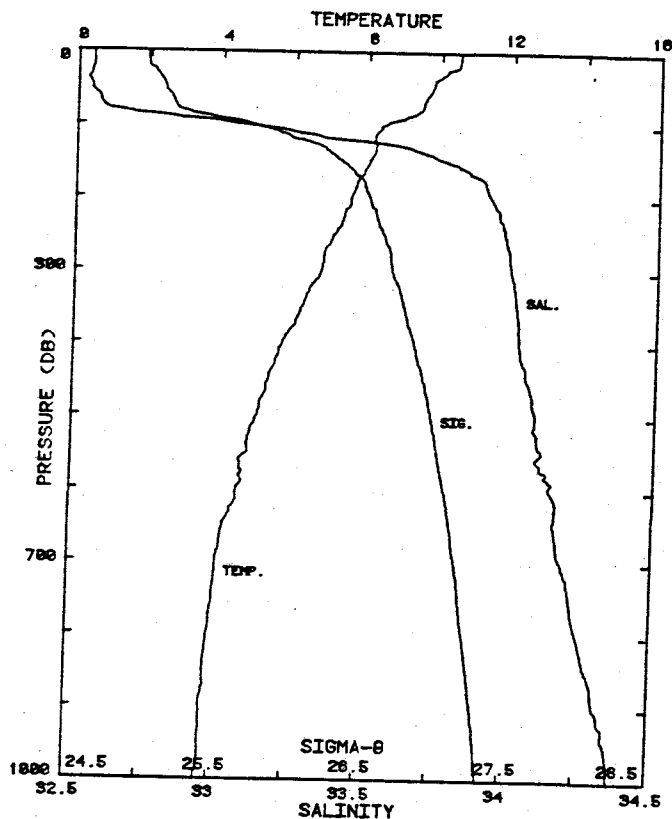


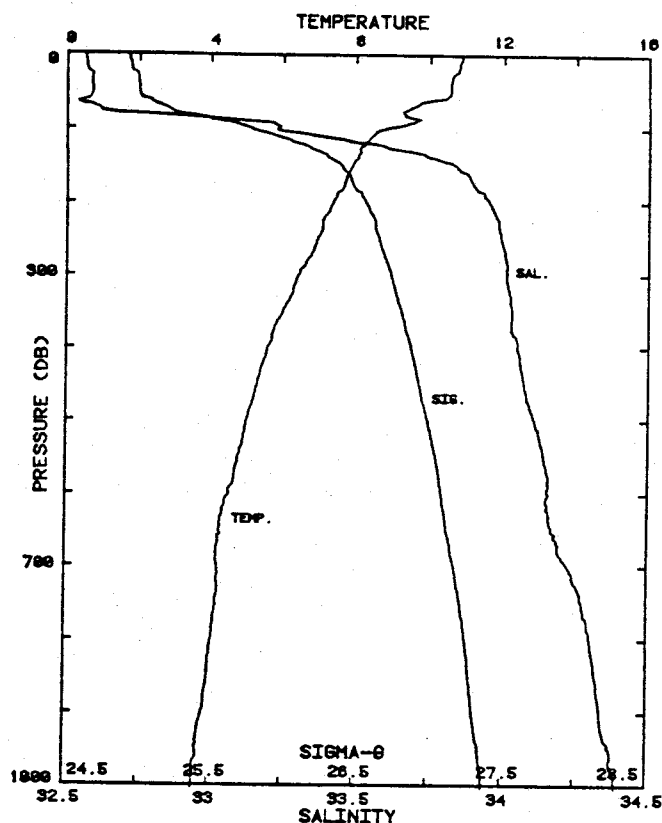
STA NO 80 CRI LAT: 41 54.0 N LONG: 124 18.0 W
 16 APR 1983 2033 GMT PROBE 2561 DEPTH 42M
 7.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.877	32.709	11.877	24.855	310.5	0.003
10	10.018	33.044	10.017	25.444	254.7	0.028
20	9.161	33.460	9.158	25.908	210.7	0.051
30	8.561	33.669	8.558	26.166	186.4	0.070
37	8.576	33.673	8.572	26.167	186.5	0.083

STA NO 81 NH165 LAT: 44 39.8 N LONG: 127 54.4 W
 17 APR 1983 1753 GMT PROBE 2561 DEPTH 2851M
 305.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.504	32.552	10.503	24.979	298.7	0.003
10	10.504	32.554	10.503	24.980	298.8	0.030
20	10.460	32.553	10.458	24.987	298.3	0.060
30	10.101	32.545	10.098	25.042	293.3	0.089
40	9.810	32.538	9.806	25.085	289.4	0.118
50	9.732	32.549	9.727	25.106	287.5	0.147
60	9.617	32.572	9.610	25.143	284.2	0.176
70	9.516	32.581	9.509	25.167	282.2	0.204
80	9.425	32.627	9.416	25.218	277.5	0.232
90	9.016	32.843	9.007	25.451	255.5	0.259
100	8.437	33.072	8.427	25.719	230.1	0.283
110	8.256	33.253	8.245	25.888	214.2	0.305
120	8.183	33.418	8.171	26.028	201.1	0.326
130	8.224	33.638	8.211	26.194	185.5	0.345
140	8.174	33.711	8.160	26.259	179.6	0.364
150	8.056	33.775	8.041	26.327	173.3	0.381
175	7.751	33.900	7.734	26.470	160.1	0.423
200	7.561	33.928	7.542	26.520	155.7	0.462
225	7.381	33.958	7.359	26.569	151.3	0.501
250	7.123	33.978	7.100	26.621	146.7	0.538
300	6.778	34.001	6.750	26.688	141.0	0.610
400	5.747	34.034	5.713	26.847	126.5	0.743
500	5.104	34.094	5.065	26.972	115.3	0.864
600	4.590	34.147	4.544	27.072	106.3	0.974
800	3.898	34.252	3.840	27.230	92.2	1.171
1000	3.626	34.374	3.554	27.355	81.7	1.344
1001	3.618	34.375	3.545	27.357	81.5	1.345





STATION 82 NH145

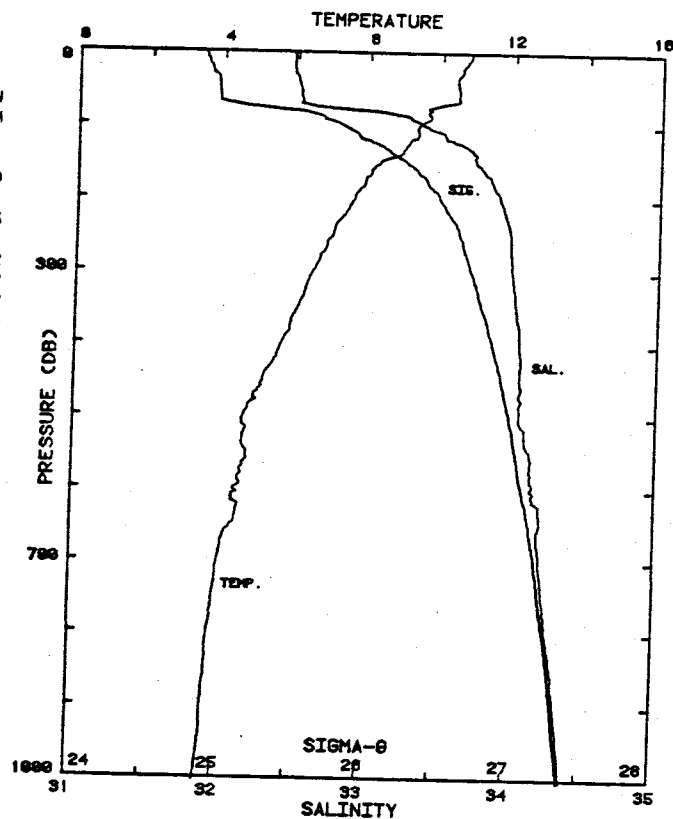
STA NO 82 NH145 LAT: 44 39.1 N LONG: 127 26.7 W
 17 APR 1983 2032 GMT PROBE 2561 DEPTH 2873M
 269.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.857	32.563	10.857	24.926	303.7	0.003
10	10.807	32.568	10.806	24.939	302.7	0.030
20	10.756	32.571	10.754	24.950	301.8	0.061
30	10.583	32.589	10.579	24.994	297.9	0.091
40	10.547	32.586	10.542	24.998	297.7	0.120
50	10.539	32.589	10.533	25.002	297.5	0.150
60	10.228	32.578	10.221	25.047	293.4	0.180
70	9.590	32.591	9.583	25.163	282.6	0.209
80	9.317	32.719	9.308	25.307	269.0	0.236
90	9.616	33.170	9.606	25.610	240.5	0.262
100	8.801	33.228	8.791	25.785	223.9	0.285
110	8.437	33.371	8.426	25.953	208.1	0.306
120	8.212	33.529	8.200	26.111	193.3	0.326
130	8.104	33.668	8.091	26.236	181.6	0.345
140	8.034	33.760	8.020	26.318	173.9	0.363
150	7.889	33.834	7.874	26.398	166.5	0.380
175	7.671	33.895	7.654	26.478	159.3	0.420
200	7.367	33.950	7.348	26.565	151.3	0.459
225	7.082	33.981	7.061	26.630	145.5	0.496
250	6.938	33.992	6.915	26.658	143.1	0.533
300	6.419	34.011	6.393	26.742	135.6	0.602
400	5.577	34.048	5.544	26.879	123.4	0.732
500	5.017	34.107	4.977	26.992	113.3	0.850
600	4.533	34.157	4.487	27.086	104.9	0.959
800	4.072	34.304	4.013	27.253	90.4	1.154
1000	3.565	34.394	3.493	27.377	79.5	1.324
1003	3.563	34.394	3.490	27.377	79.5	1.326

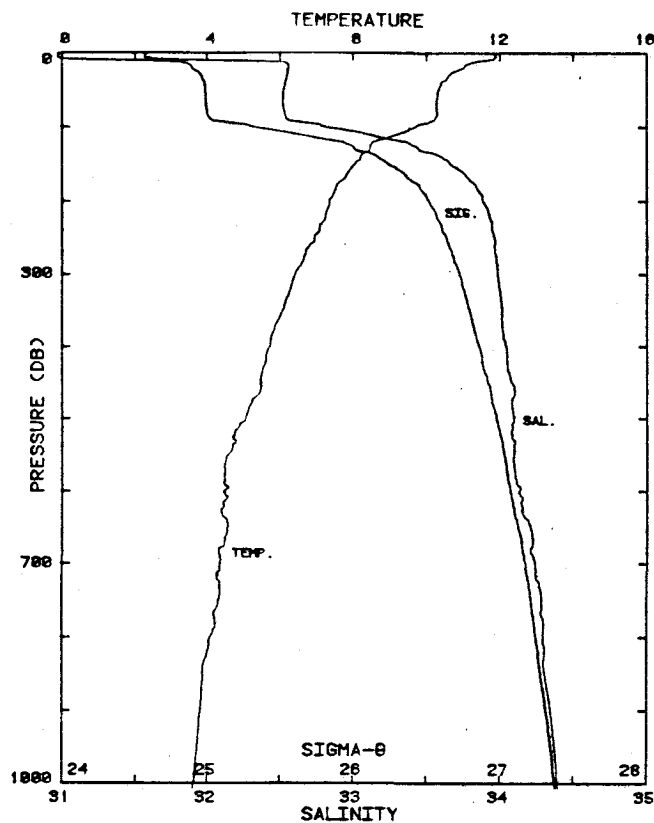
14 MIN GAP AT 577-579DB

STA NO 83 NH125 LAT: 44 39.1 N LONG: 126 58.7 W
 17 APR 1983 2319 GMT PROBE 2561 DEPTH 2881M
 232.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	10.807	32.475	10.807	24.866	309.5	0.003
10	10.736	32.476	10.735	24.880	308.3	0.031
20	10.584	32.474	10.582	24.905	306.2	0.062
30	10.509	32.482	10.506	24.924	304.6	0.092
40	10.413	32.507	10.409	24.960	301.4	0.122
50	10.449	32.521	10.443	24.965	301.1	0.153
60	10.448	32.526	10.442	24.969	300.9	0.183
70	10.263	32.530	10.255	25.004	297.8	0.213
80	9.684	32.977	9.675	25.448	255.7	0.241
90	9.696	33.288	9.686	25.689	233.1	0.265
100	9.379	33.381	9.368	25.813	221.4	0.287
110	9.361	33.503	9.349	25.911	212.3	0.309
120	9.154	33.558	9.141	25.987	205.2	0.330
130	9.021	33.683	9.007	26.107	194.1	0.350
140	8.865	33.742	8.850	26.178	187.5	0.369
150	8.323	33.744	8.308	26.263	179.4	0.388
175	7.919	33.852	7.902	26.408	166.0	0.431
200	7.625	33.915	7.606	26.500	157.6	0.471
225	7.311	33.956	7.289	26.578	150.5	0.510
250	7.044	33.989	7.021	26.641	144.8	0.546
300	6.506	34.004	6.479	26.726	137.2	0.617
400	5.665	34.062	5.632	26.879	123.4	0.747
500	4.689	34.070	4.650	26.999	112.2	0.865
600	4.447	34.156	4.402	27.095	104.0	0.973
800	3.810	34.279	3.752	27.260	89.2	1.164
1000	3.531	34.401	3.459	27.386	78.6	1.332
1003	3.526	34.401	3.454	27.387	78.5	1.334



STATION 83 NH125



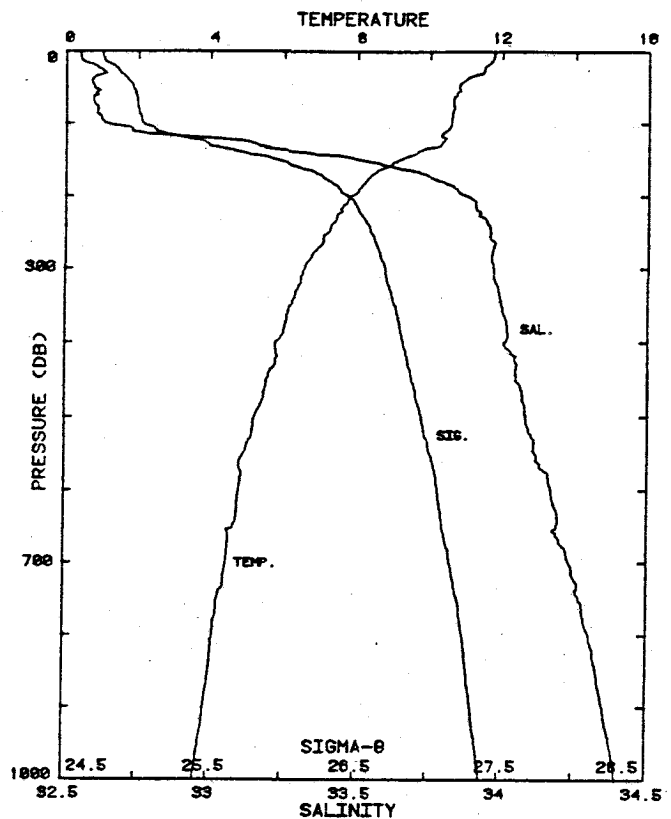
STATION 84 NH105

STA NO 84 NH105 LAT: 44 39.0 N LONG: 126 30.5 W
 18 APR 1983 0158 GMT PROBE 2561 DEPTH 2862M
 194.0 KM FROM SHORE

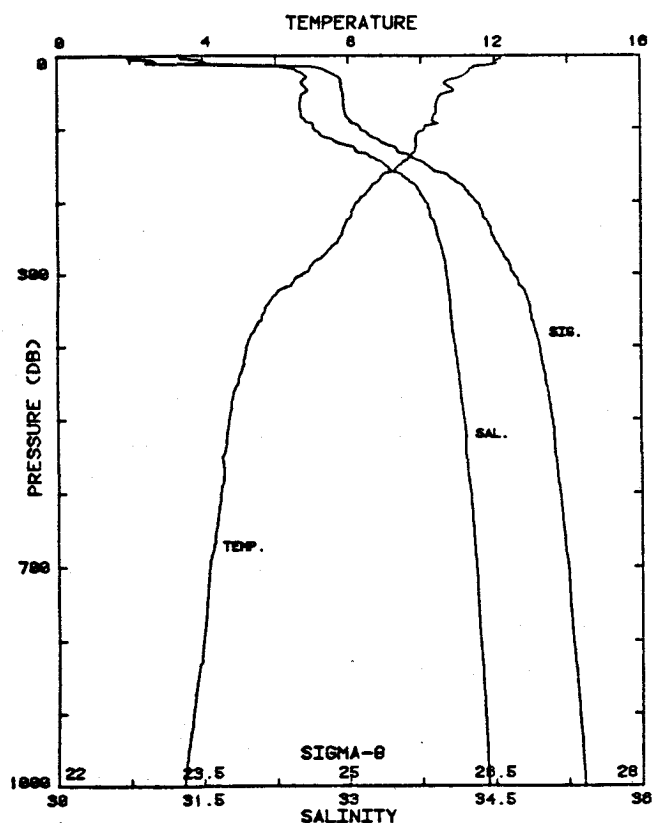
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.874	31.576	11.874	23.979	394.0	0.004
10	11.651	31.955	11.650	24.313	362.4	0.039
20	11.020	32.559	11.017	24.895	307.2	0.071
30	10.632	32.548	10.628	24.954	301.7	0.101
40	10.405	32.534	10.400	24.982	299.2	0.131
50	10.322	32.523	10.316	24.988	298.9	0.161
60	10.285	32.518	10.278	24.990	298.8	0.191
70	10.262	32.516	10.255	24.993	298.8	0.221
80	10.281	32.529	10.272	25.000	298.3	0.251
90	10.207	32.552	10.197	25.030	295.7	0.281
100	9.676	32.810	9.665	25.320	268.3	0.309
110	9.237	33.104	9.225	25.620	239.8	0.334
120	8.585	33.345	8.573	25.911	212.3	0.357
130	8.447	33.448	8.434	26.012	202.8	0.377
140	8.202	33.601	8.188	26.169	188.1	0.397
150	8.052	33.661	8.037	26.238	181.6	0.415
175	7.637	33.815	7.620	26.420	164.7	0.459
200	7.345	33.882	7.326	26.515	156.1	0.499
225	7.223	33.934	7.202	26.572	151.0	0.537
250	6.935	33.962	6.912	26.634	145.3	0.574
300	6.402	33.982	6.375	26.722	137.5	0.645
400	5.707	34.040	5.674	26.857	125.6	0.776
500	5.059	34.093	5.019	26.976	114.9	0.897
600	4.481	34.129	4.436	27.070	106.3	1.007
800	4.100	34.295	4.040	27.243	91.4	1.203
1000	3.610	34.397	3.538	27.375	79.8	1.374
1007	3.596	34.401	3.523	27.380	79.4	1.380

STA NO 85 NH85 LAT: 44 39.1 N LONG: 126 2.5 W
 18 APR 1983 0427 GMT PROBE 2561 DEPTH 2877M
 157.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.768	32.550	11.768	24.752	320.3	0.003
10	11.737	32.553	11.736	24.760	319.7	0.032
20	11.561	32.601	11.559	24.830	313.4	0.064
30	11.460	32.637	11.457	24.876	309.2	0.095
40	10.961	32.589	10.956	24.928	304.4	0.125
50	10.801	32.598	10.795	24.964	301.3	0.156
60	10.725	32.606	10.718	24.984	299.6	0.186
70	10.630	32.595	10.622	24.991	299.0	0.216
80	10.655	32.611	10.645	25.000	298.4	0.246
90	10.595	32.618	10.585	25.016	297.1	0.275
100	10.581	32.639	10.569	25.035	295.5	0.305
110	10.470	32.730	10.457	25.125	287.2	0.334
120	10.422	32.971	10.408	25.320	268.8	0.362
130	10.289	33.160	10.274	25.491	252.8	0.388
140	9.650	33.301	9.634	25.707	232.3	0.412
150	9.184	33.504	9.168	25.941	210.2	0.434
175	8.332	33.755	8.315	26.270	179.2	0.483
200	7.875	33.880	7.855	26.437	163.7	0.525
225	7.499	33.923	7.477	26.525	155.6	0.565
250	7.226	33.961	7.202	26.594	149.3	0.603
300	6.562	33.972	6.535	26.693	140.3	0.675
400	5.815	34.013	5.781	26.822	128.9	0.810
500	5.239	34.087	5.198	26.950	117.5	0.933
600	4.827	34.174	4.779	27.067	107.1	1.045
800	4.130	34.304	4.070	27.248	91.1	1.244
1000	3.636	34.400	3.563	27.375	79.9	1.415
1001	3.631	34.401	3.559	27.376	79.8	1.416



STATION 85 NH85



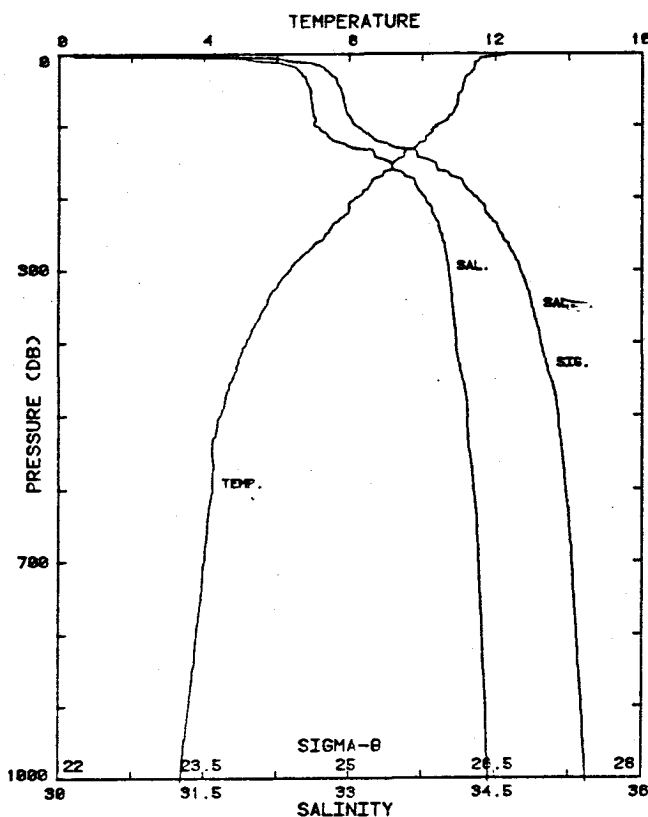
STATION 86 NH65

STA NO 86 NH65 LAT: 44 39.1 N LONG:125 34.3 W
18 APR 1983 0656 GMT PROBE 2561 DEPTH 2853M
120.0 KM FROM SHORE

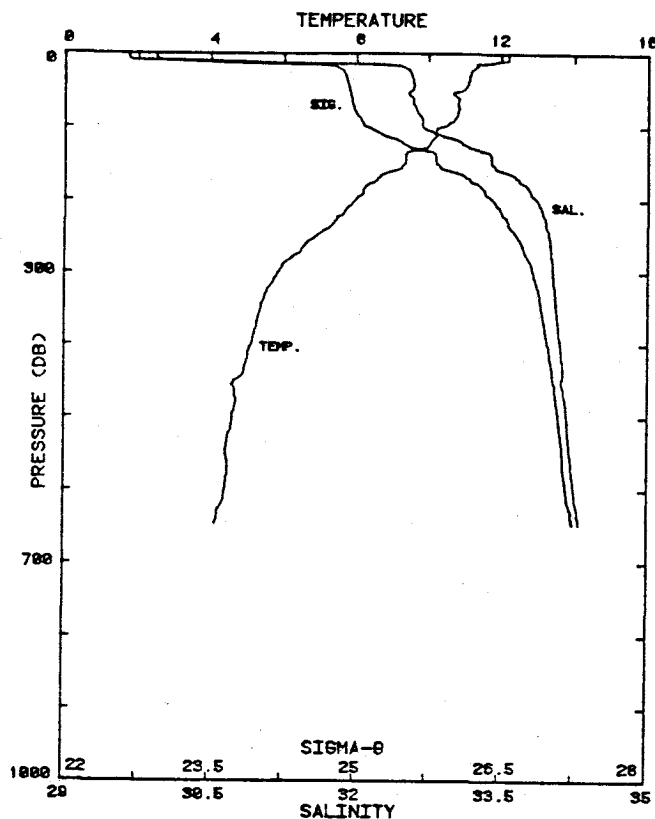
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.177	30.733	12.177	23.271	461.5	0.005
10	12.034	30.963	12.033	23.475	442.2	0.045
20	11.322	32.456	11.320	24.761	319.9	0.082
30	11.035	32.571	11.031	24.901	306.8	0.113
40	10.684	32.525	10.679	24.927	304.5	0.144
50	10.766	32.562	10.760	24.942	303.3	0.174
60	10.447	32.503	10.440	24.952	302.6	0.204
70	10.398	32.499	10.390	24.957	302.3	0.235
80	10.373	32.511	10.363	24.971	301.1	0.265
90	10.321	32.565	10.311	25.021	296.6	0.295
100	10.082	32.643	10.071	25.123	287.1	0.324
110	9.860	32.724	9.848	25.223	277.7	0.352
120	9.855	32.900	9.841	25.361	264.8	0.379
130	9.825	33.077	9.810	25.504	251.4	0.405
140	9.685	33.248	9.670	25.660	236.8	0.429
150	9.416	33.382	9.400	25.808	222.9	0.452
175	8.744	33.663	8.725	26.135	192.1	0.504
200	8.265	33.792	8.245	26.310	175.9	0.550
225	7.978	33.867	7.955	26.412	166.5	0.592
250	7.742	33.926	7.717	26.493	159.2	0.633
300	6.738	34.005	6.711	26.695	140.2	0.708
400	5.178	34.092	5.146	26.961	115.3	0.833
500	4.688	34.184	4.650	27.089	103.7	0.943
600	4.448	34.245	4.402	27.166	97.3	1.044
800	3.965	34.341	3.906	27.293	86.5	1.226
1000	3.446	34.424	3.374	27.413	75.9	1.388
1001	3.444	34.424	3.373	27.413	75.9	1.388

STA NO 87 NH55 LAT: 44 49.1 N LONG:125 20.1 W
18 APR 1983 0845 GMT PROBE 2561 DEPTH 2844M
101.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.264	30.165	12.264	22.816	505.0	0.005
10	11.540	32.011	11.538	24.377	356.3	0.043
20	11.417	32.444	11.414	24.734	322.4	0.077
30	11.273	32.507	11.269	24.809	315.5	0.109
40	11.141	32.555	11.136	24.870	310.0	0.140
50	11.089	32.593	11.083	24.910	306.4	0.171
60	10.972	32.597	10.965	24.933	304.4	0.201
70	10.954	32.609	10.946	24.946	303.4	0.231
80	10.865	32.619	10.855	24.970	301.3	0.262
90	10.694	32.641	10.684	25.017	297.1	0.292
100	10.413	32.637	10.401	25.062	292.9	0.321
110	10.269	32.736	10.256	25.164	283.4	0.350
120	10.094	32.819	10.080	25.258	274.6	0.378
130	9.822	33.014	9.808	25.455	256.1	0.404
140	9.505	33.258	9.490	25.698	233.2	0.428
150	9.260	33.394	9.244	25.843	219.5	0.451
175	8.679	33.663	8.661	26.145	191.2	0.503
200	8.215	33.775	8.195	26.304	176.4	0.550
225	7.870	33.867	7.848	26.428	165.0	0.592
250	7.376	33.942	7.352	26.558	152.8	0.632
300	6.355	34.021	6.328	26.759	134.0	0.703
400	5.172	34.101	5.141	26.968	114.5	0.826
500	4.454	34.218	4.416	27.142	98.5	0.932
600	4.221	34.280	4.176	27.217	92.1	1.027
800	3.797	34.369	3.739	27.333	82.4	1.201
1000	3.364	34.437	3.293	27.430	74.0	1.357
1005	3.359	34.437	3.288	27.431	74.0	1.361



STATION 87 NH55



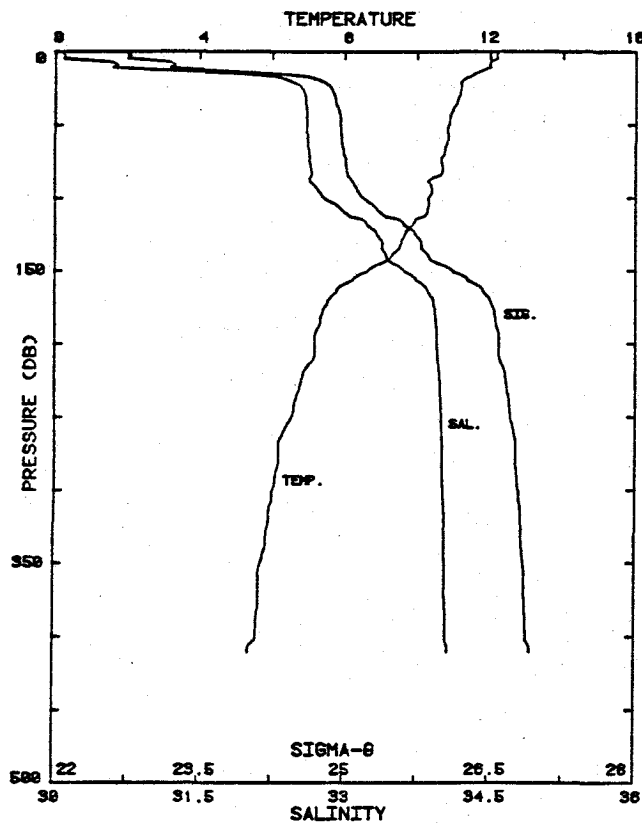
STATION 88 NH45

STA NO 88 NH45 LAT: 44 39.1 N LONG:125 6.2 W
18 APR 1983 1028 GMT PROBE 2561 DEPTH 649M
83.0 KM FROM SHORE

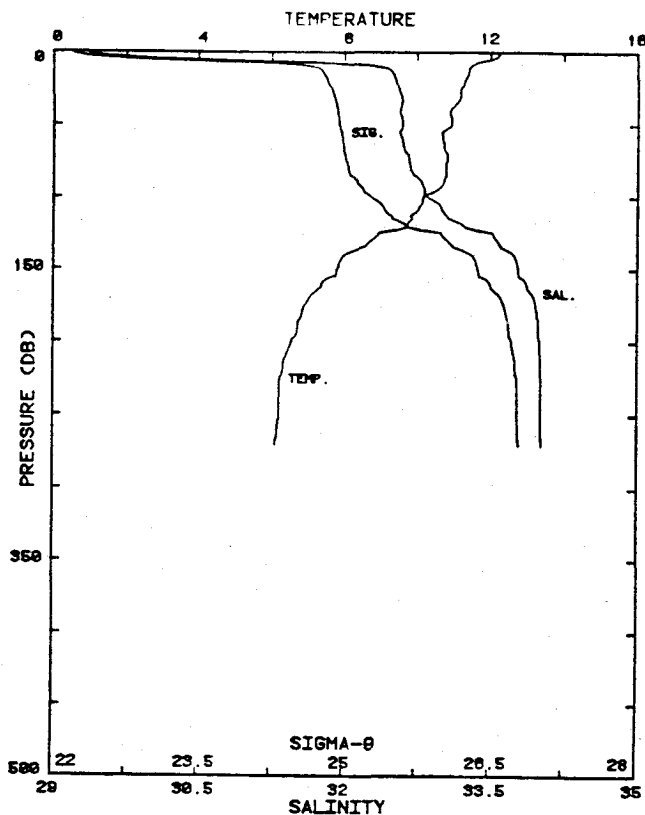
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.202	29.941	12.201	22.654	520.5	0.005
10	12.053	30.367	12.052	23.011	486.6	0.052
20	11.286	32.513	11.283	24.812	315.1	0.089
30	11.139	32.572	11.135	24.883	308.5	0.120
40	11.099	32.592	11.094	24.907	306.4	0.151
50	10.943	32.582	10.937	24.927	304.8	0.181
60	10.832	32.586	10.825	24.949	302.8	0.212
70	10.814	32.601	10.806	24.964	301.6	0.242
80	10.805	32.635	10.796	24.993	299.1	0.272
90	10.717	32.688	10.707	25.049	294.0	0.302
100	10.408	32.693	10.396	25.106	288.7	0.331
110	10.221	32.847	10.208	25.258	274.4	0.359
120	10.080	33.078	10.067	25.462	255.3	0.385
130	9.841	33.226	9.826	25.617	240.7	0.410
140	9.368	33.399	9.353	25.830	220.6	0.433
150	9.362	33.402	9.346	25.833	220.5	0.455
175	8.548	33.698	8.530	26.193	186.6	0.506
200	7.988	33.868	7.968	26.411	166.2	0.550
225	7.480	33.950	7.459	26.549	153.3	0.590
250	6.908	33.998	6.885	26.666	142.3	0.627
300	5.854	34.037	5.829	26.835	126.4	0.694
400	5.133	34.114	5.101	26.984	113.1	0.813
500	4.617	34.180	4.579	27.094	103.2	0.921
600	4.426	34.258	4.381	27.178	96.2	1.020
647	4.168	34.309	4.120	27.246	89.8	1.064

STA NO 89 NH35 LAT: 43 39.0 N LONG:124 52.7 W
18 APR 1983 1211 GMT PROBE 2561 DEPTH 433M
65.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.187	30.087	12.187	22.770	509.4	0.005
10	11.994	30.627	11.993	23.223	466.3	0.049
20	11.233	32.417	11.230	24.747	321.3	0.088
30	11.152	32.581	11.148	24.888	308.0	0.119
40	10.962	32.596	10.957	24.934	303.9	0.149
50	10.853	32.596	10.847	24.953	302.3	0.180
60	10.835	32.612	10.828	24.969	301.0	0.210
70	10.750	32.626	10.741	24.995	298.7	0.240
80	10.696	32.646	10.686	25.020	296.6	0.270
90	10.328	32.654	10.318	25.090	290.1	0.299
100	10.320	32.781	10.309	25.190	280.7	0.328
110	10.269	32.994	10.257	25.365	264.4	0.355
120	9.840	33.259	9.827	25.643	238.0	0.380
130	9.573	33.387	9.559	25.787	224.6	0.403
140	9.301	33.432	9.286	25.866	217.1	0.425
150	8.672	33.617	8.657	26.110	194.0	0.446
175	7.457	33.930	7.440	26.536	153.7	0.488
200	7.178	33.960	7.159	26.599	148.0	0.525
225	6.803	33.986	6.782	26.671	141.5	0.562
250	6.538	34.002	6.516	26.719	137.1	0.596
300	6.020	34.025	5.994	26.804	129.4	0.662
400	5.582	34.059	5.549	26.887	122.6	0.788
411	5.372	34.086	5.338	26.933	118.2	0.801



STATION 89 NH35



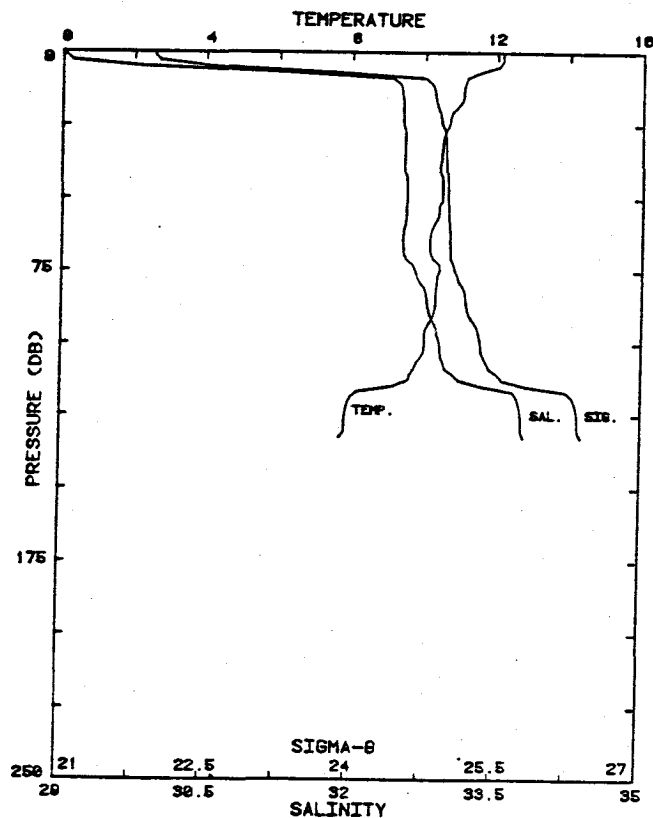
STATION 90 NH25

STA NO 90 NH25 LAT: 44 39.1 N LONG: 124 38.7 W
 18 APR 1983 1334 GMT PROBE 2561 DEPTH 285M
 46.6 KM FROM SHORE

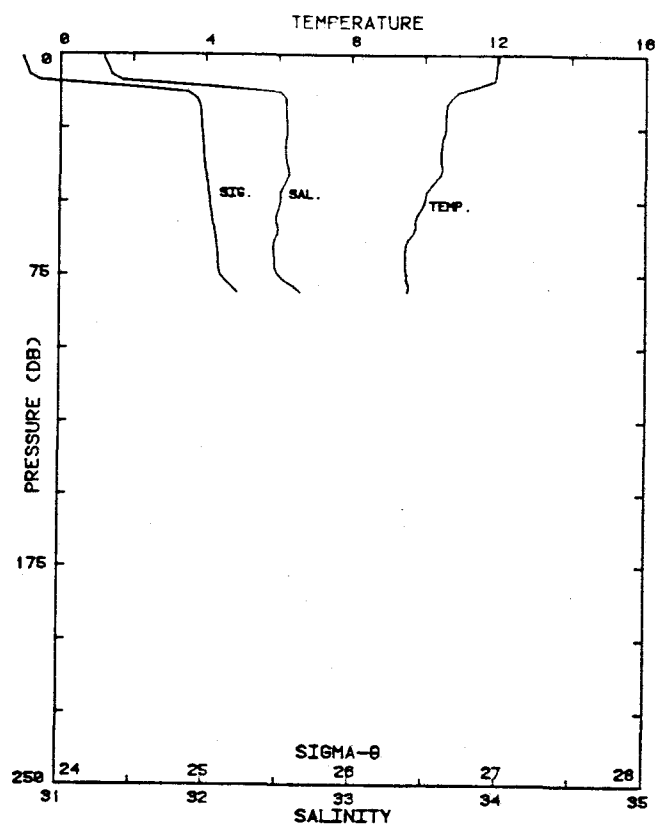
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.242	29.383	12.242	22.216	562.4	0.006
10	11.457	32.342	11.456	24.648	330.4	0.047
20	11.298	32.530	11.295	24.822	314.0	0.079
30	11.165	32.581	11.162	24.886	308.2	0.110
40	10.900	32.569	10.896	24.924	304.8	0.140
50	10.924	32.597	10.918	24.941	303.4	0.171
60	10.691	32.589	10.684	24.976	300.2	0.201
70	10.806	32.641	10.798	24.997	298.5	0.231
80	10.768	32.681	10.758	25.035	295.2	0.261
90	10.708	32.791	10.697	25.131	286.3	0.290
100	10.172	32.849	10.161	25.268	273.3	0.318
110	10.001	33.008	9.988	25.421	259.0	0.344
120	9.718	33.226	9.704	25.638	238.5	0.369
130	8.773	33.565	8.759	26.054	199.0	0.391
140	8.043	33.740	8.029	26.301	175.5	0.410
150	7.811	33.785	7.797	26.371	169.0	0.427
175	6.922	33.968	6.906	26.640	143.6	0.466
200	6.552	34.005	6.534	26.719	136.4	0.501
225	6.233	34.023	6.214	26.775	131.3	0.534
250	6.196	34.023	6.175	26.780	131.1	0.567
271	6.097	34.026	6.074	26.796	129.9	0.594

STA NO 91 NH20 LAT: 44 39.1 N LONG: 124 31.8 W
 18 APR 1983 1442 GMT PROBE 2561 DEPTH 138M
 37.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.152	29.031	12.152	21.961	586.8	0.006
10	11.128	32.453	11.127	24.793	316.6	0.048
20	10.823	32.524	10.821	24.902	306.5	0.079
30	10.516	32.549	10.513	24.974	299.8	0.110
40	10.433	32.545	10.428	24.986	298.9	0.140
50	10.485	32.569	10.479	24.996	298.1	0.169
60	10.243	32.541	10.236	25.016	296.4	0.199
70	10.209	32.550	10.201	25.028	295.5	0.229
80	10.356	32.729	10.347	25.143	284.7	0.258
90	10.275	32.812	10.265	25.221	277.6	0.286
100	10.025	32.922	10.013	25.350	265.5	0.313
110	9.690	33.030	9.678	25.489	252.4	0.339
120	7.973	33.744	7.962	26.315	173.8	0.360
130	7.849	33.782	7.836	26.363	169.4	0.378
133	7.735	33.807	7.722	26.398	166.1	0.383



STATION 91 NH20



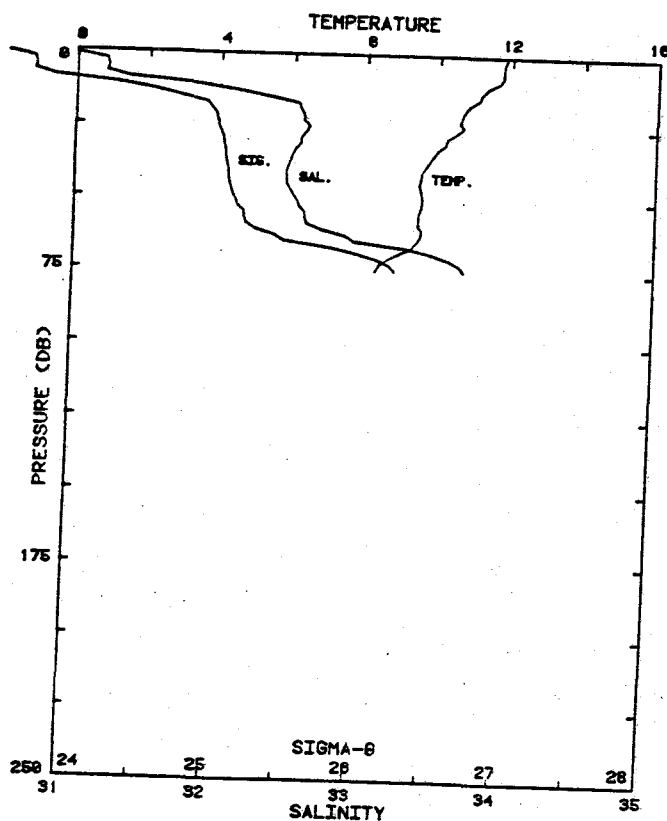
STATION 92 NH15

STA NO 92 NH15 LAT: 44 39.1 N LONG: 124 24.7 W
 18 APR 1983 1535 GMT PROBE 2561 DEPTH 89M
 28.2 KM FROM SHORE

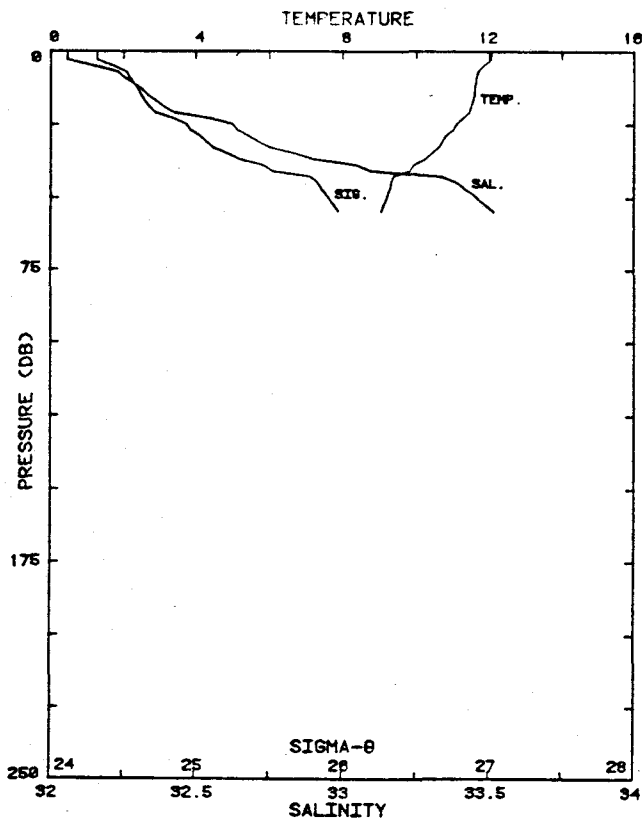
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.963	31.299	11.963	23.748	416.0	0.004
10	11.651	31.732	11.650	24.140	378.8	0.041
20	10.558	32.548	10.555	24.967	300.3	0.073
30	10.463	32.546	10.459	24.982	299.1	0.102
40	10.446	32.567	10.441	25.001	297.4	0.132
50	10.006	32.512	10.000	25.032	294.6	0.162
60	9.723	32.494	9.716	25.065	291.7	0.191
70	9.468	32.470	9.461	25.088	289.7	0.220
80	9.544	32.626	9.535	25.198	279.4	0.249
81	9.528	32.648	9.519	25.217	277.6	0.252

STA NO 93 NH10 LAT: 44 39.1 N LONG: 124 17.7 W
 18 APR 1983 1641 GMT PROBE 2561 DEPTH 78M
 19.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.823	31.000	11.823	23.542	435.7	0.004
10	11.496	31.607	11.495	24.071	385.4	0.042
20	10.677	32.557	10.674	24.953	301.6	0.075
30	10.229	32.554	10.225	25.028	294.7	0.105
40	9.614	32.465	9.610	25.060	291.7	0.134
50	9.607	32.526	9.601	25.109	287.3	0.163
60	9.549	32.660	9.542	25.223	276.6	0.191
70	8.840	33.532	8.833	26.016	201.4	0.216
75	8.355	33.700	8.347	26.222	181.9	0.225



STATION 93 NH10



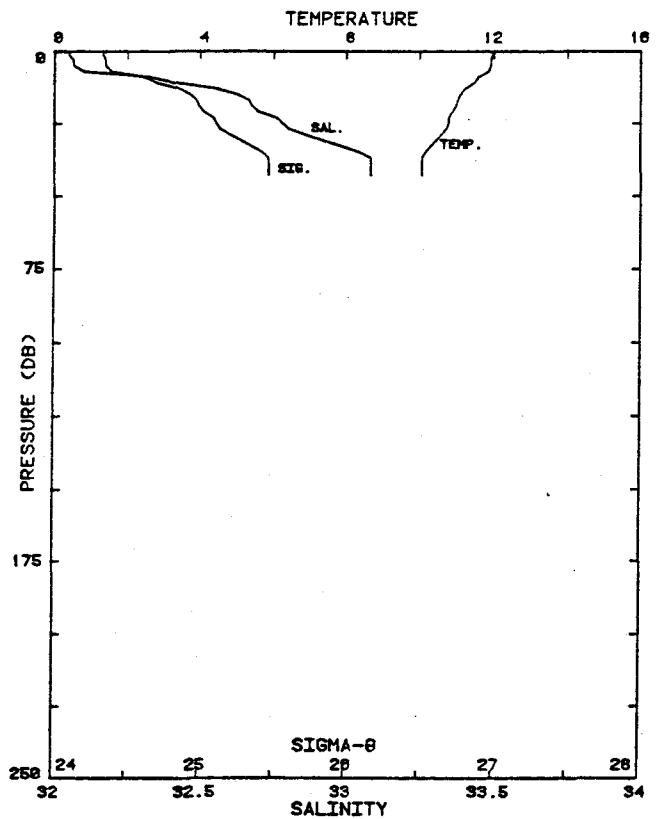
STATION 94 NH5

STA NO 94 NH5 LAT: 44 39.1 N LONG: 124 10.6 W
 18 APR 1983 1737 GMT PROBE 2561 DEPTH 58M
 9.6 KM FROM SHORE

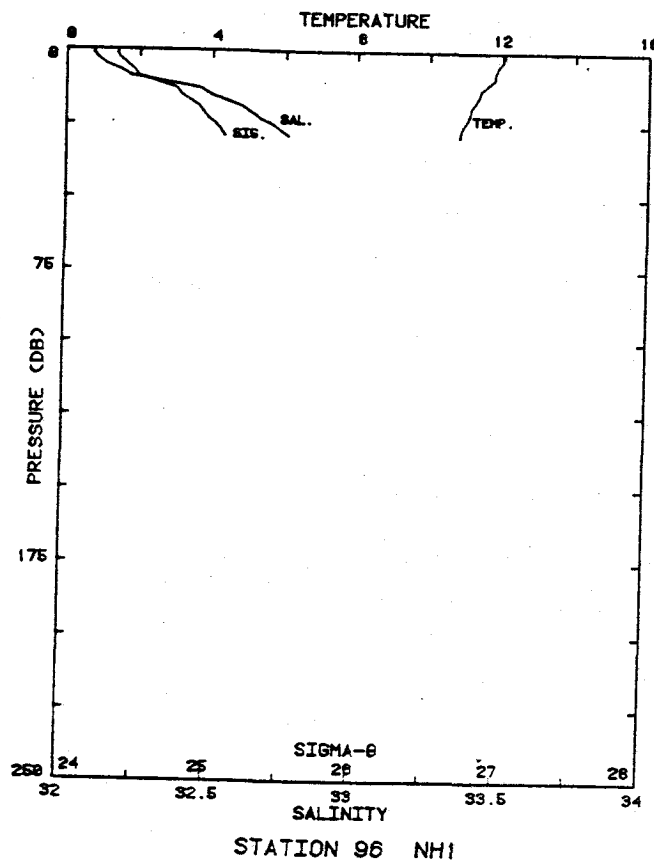
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.056	32.057	12.056	24.317	361.7	0.004
10	11.639	32.268	11.638	24.557	339.0	0.035
20	11.467	32.407	11.464	24.696	326.1	0.068
30	10.750	32.695	10.746	25.047	292.8	0.099
40	9.872	33.070	9.867	25.489	251.0	0.127
50	9.203	33.456	9.198	25.899	212.2	0.149
55	9.046	33.515	9.040	25.971	205.5	0.160

STA NO 95 NH3 LAT: 44 39.1 N LONG: 124 7.8 W
 18 APR 1983 1810 GMT PROBE 2561 DEPTH 45M
 5.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	11.953	32.048	11.953	24.329	360.6	0.004
10	11.526	32.373	11.524	24.660	329.3	0.035
20	10.926	32.687	10.924	25.010	296.1	0.066
30	10.502	32.889	10.499	25.241	274.4	0.095
40	10.065	33.085	10.060	25.469	252.9	0.121
43	10.065	33.086	10.060	25.469	253.0	0.128



STATION 95 NH3



STA NO 96 NH1 LAT: 44 39.1 N LONG: 124 5.9 W
 18 APR 1983 1838 GMT PROBE 2561 DEPTH 34M
 3.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	12.060	32.091	12.060	24.342	359.3	0.004
10	11.676	32.285	11.675	24.564	338.5	0.035
20	11.108	32.615	11.106	24.923	304.5	0.067
29	10.819	32.759	10.816	25.085	289.2	0.094

ACKNOWLEDGMENTS

These observations of the Large Scale West Coast Shelf Experiment and the Coastal Ocean Dynamics Experiment were supported by the National Science Foundation through Grants OCE-8026131 and OCE-8014943 respectively. Additional support for Leg 5 came from National Science Foundation Grant OCE-8014941 to Woods Hole Oceanographic Institution. Data processing and analysis are supported through NSF Grants OCE-8405232 and OCE-8410861.

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