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**CTD Observations off
Peru and Ecuador
February 1983-April 1985**

by
**Jane Fleischbein
Adriana Huyer
Richard E. Schramm
Robert L. Smith**

Date Report 138
Reference 87-26
September 1987

National Science Foundation OCE-8017929,
OCE-8110702, OCE-8315014, OCE-8708830

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ABSTRACT

As part of the Peru Currents study, CTD observations were made off the coasts of Peru and Ecuador between 3°N and 17°S from the R/V Wecoma, February-March 1983 and March-April 1985, and from the R/V Endeavor, November-December 1983 and April-May 1984. Repeated CTD sections were occupied within 300 km of the coast off Callao, Chimbote and Pimental, Peru; along 5°S off Paita, Peru; and between 2°N and 5°S along 85°W, 92°W and 95°W. The usual maximum sampling depth was 1000 m where bathymetry permitted; a few deeper stations were made (the maximum depth was 3091 m). Vertical profiles of temperature, salinity and sigma-theta vs. pressure and standard depth listings are presented for each of the 616 stations.

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INTRODUCTION

The Peru Currents project studied the variability in current, temperature, density and nutrient structure and the biological response to variability along the South Pacific's eastern equatorial boundary. With the cooperation of Peru and Ecuador, eight cruises were conducted between February 1983 and April 1985 from 3°N to 17°S off the NW coast of South America. Principal investigators and cruise participants for each cruise are listed in Table 1. The cruises aboard Oregon State University's R/V Wecoma and the University of Rhode Island's R/V Endeavor involved maintaining current meter moorings, biological sampling and hydrographic surveys. Repeated CTD sections were occupied off Callao, Chimbote and Pimental, Peru; along 5°S off Paita, Peru; and between 2°N and 5° S along 85°W, 92°W and 95°W. Only the CTD data are presented in this report.

The R/V Wecoma departed on Cruise Weloc 83 leg 2 (WL83L2) from Balboa, Panama on 2 February 1983 and arrived at Callao, Peru on 23 February 1983 after completing 111 CTD stations (Figure 1, Table 9), recovering 4 current meter moorings and deploying 6 moorings (Table 2, Figure 9). A test cast was done at station 1; then CTD sections were completed along 85°W and 5°S off Paita, and off Pimental, Chimbote, Supe, Callao, San Juan and Atico, Peru (Figure 1). Leg 3 of Weloc 83 (WL83L3) departed Callao, Peru on 1 March 1983 and ended at Balboa, Panama on 24 March 1983 after completing 78 CTD stations. CTD sections were occupied off Chimbote and Pimental, Peru and along 81°30'W, 2°10'S off La Libertad, Ecuador, 5°S off Paita, Peru, 95°W, 92°W and near the Galapagos Islands, Ecuador (Figure 2, Table 10).

The series of Peru Current cruises on the R/V Endeavor began with cruise EN109 departing Balboa, Panama on 13 November 1983. A total of 66 CTD

stations were completed, with sections along 85°W, and 5°S off Peru (Figure 3, Table 11). In addition, 2 Inverted Echo Sounders and 5 current meter moorings were replaced and 1 current meter mooring (10° offshore) was recovered but not replaced (Table 3, Figure 9). The R/V Endeavor arrived at Callao, Peru on 28 November 1983 and left port on 3 December to begin cruise EN110. Before returning to Callao on 19 December 1983, 55 CTD casts were done along lines off Chimbote, 10°30'S, 85°W, 5°S off Paíta, 92°W, 95°W, and near the Galapagos Islands (Figure 4, Table 12). The following spring, cruise EN115 departed Callao, Peru on 6 April 1984 and repeated the CTD sections off Callao and Chimbote and along 10°30'S, 85°W, 5°S off Paíta, 92°W, 95°W and in the vicinity of the Galapagos Islands for a total of 77 stations (Figure 5, Table 13). Delays in the data collection occurred on 16 April while the ship's chief engineer was treated by a doctor on an Ecuadorian ship for a swollen eye, and again from the morning of 18 April to the afternoon of 20 April when the ship had to detour to Baltra Island to disembark the chief engineer for his worsening eye infection. EN115 ended in Callao, Peru on 28 April; after exchanging scientific personnel, the R/V Endeavor left on 2 May from Callao on cruise EN116. Seventy CTD stations were done along the repeated sections off Chimbote and Pimental and along 5°S off Paíta, 82°W and 85°W (Figure 6, Table 14). Four current meter moorings were replaced, two moorings (5°S offshore and shelf) were recovered and not replaced, one mooring at 10°S shelf was deployed and the two Inverted Echo Sounders that were deployed on EN109 were recovered (Table 4, Figure 9). The series of Endeavor cruises ended on 16 May 1984 at Balboa, Panama.

The 1985 Peru Currents cruise began with Weloc 85 leg 2 (WL85L2) on 10 March 1985 out of Callao, Peru. CTD sections were completed off San Juan, Callao, Chimbote, and Pimental, Peru and along 5°S, 82°W and 85°W

for a total of 113 stations (Figure 7, Table 15). All of the 5 current meter moorings deployed on cruise EN116 were recovered (Table 5, Figure 9) and one mooring for the OSU-AOML TOGA program was deployed to be picked up by a NOAA ship a year later. (NOAA's R/V Oceanographer failed to locate the mooring in 1986.) WL85L2 ended on 1 April 1985 at Panama City, Panama and after exchanging scientific personnel, departed on cruise WL85L3 on 6 April 1985. During the final Peru Current cruise, 39 CTD casts were completed along 85°W, 5°S, 92°W, 95°W and near the Galapagos Islands, (Figure 8, Table 16) before returning to Balboa, Panama on 21 April 1985.

Table 1. Principal investigators and scientific personnel participating in the Peru Currents cruises.

<u>Cruise</u>	<u>Principal Investigator</u>	<u>Personnel on Board</u>	
WL83L2	R. L. Smith, OSU A. Huyer, OSU	R. L. Smith, OSU A. Huyer, OSU R. Schramm, OSU J. Fleischbein, OSU R. Still, OSU CMDR W. Garcia, DHNM L. Benavides, WHOI R. de Rondan, IMARPE	B. Moore, OSU D. Root, OSU M. Miller, OSU R. Hevner, OSU J. Kogelshatz, DU
WL83L3	R. T. Barber, DU H. Pak, OSU A. Huyer, OSU	R. T. Barber, DU J. Kogelshatz, DU F. Chavez, DU H. Pittock, OSU H. Pak, OSU D. Menzies, OSU CMDR W. Garcia, DHNM M. Maldonado Dongo, IMARPE N. Lostaunau Espinoza, IMARPE B. Rojas de Mendiola, IMARPE	R. Hevner, OSU M. Miller, OSU T. Arcos, INP M. Garcia, INP F. Medina, ESPOL P. Padilla, INOCAR
EN109	J. S. Allen, OSU R. L. Smith, OSU R. T. Barber, OSU	A. Huyer, OSU R. Smith, OSU R. Schramm, OSU J. Fleischbein, OSU R. Still, OSU B. Moore, OSU M. Miller, DU N. Lostaunau Espinoza, IMARPE	J. Kogelshatz, DU L. Semple, DU W. Garcia, DHNM J. Chaplin, URI J. Szelag, URI E. Slater, URI
EN110	R. Barber, DU A. Huyer, OSU	R. T. Barber, DU J. Kogelshatz, DU L. Semple, DU	M. Miller, DU J. Szelag, URI E. Slater, URI
EN115	R. T. Barber, DU A. Huyer, OSU	H. Pittock, OSU D. Enfield, OSU J. Fleischbein, OSU M. Park, OSU F. Chavez, DU J. Szelag, URI E. Slater, URI	O. Sandoval, IMARPE L. Juarez, IMARPE C. Robles, IMARPE L. Amat y Leon, DHNM P. Intriago, INP F. Villamar, INP

Table 1, continued

EN116	A. Huyer, OSU	A. Huyer, OSU
	R. L. Smith, OSU	R. L. Smith, OSU
	J. S. Allen, OSU	R. Schramm, OSU
	R. T. Barber, DU	R. Still, OSU
		J. Fleischbein, OSU
		M. Park, OSU
		T. Paluszkievicz, OSU
		E. Fahrbach, IM
		N. Lostaunau, IMARPE
		F. Gonzales Ganoza, DHNM
		J. Szelag, URI
		E. Slater, URI
WL85L2	R. L. Smith, OSU	R. L. Smith, OSU
	A. Huyer, OSU	A. Huyer, OSU
	R. T. Barber, OSU	R. Schramm, OSU
		R. Still, OSU
		J. Fleischbein, OSU
		M. Miller, OSU
		F. Chavez, UD
		N. White, CSIRO
		M. Willis, OSU
		M. Cacho, DHNM
		R. Izaguirre de Rondon, IMARPW
		C Robles, IMARPE
WL85L3	R. T. Barber, DU	R. Schramm, OSU
	A. Huyer, OSU	M. Willis, OSU
		J. Kogelshatz, DU
		R. Davis, U. of Texas
		C. Robes, IMARPE
		M. Jacinto, IMARPE
		R. Izaguirre de Rondon, IMARPE
		M. Davidson, DU
		M. Facklam, DU
		M. Cruz Edra, INOCAR
		C. Garzon, INOCAR
		P. Intriago, INP
		F. Ormaza, INP

Institutions:

CSIRO	Commonwealth Scientific and Industrial Research Organization
DHNM	Direccion de Hidrografia y Navegacion de la Marina
DU	Duke University
ESPOL	Escuela Cientifico Politecnica Oceanografico y Litoral
IM	Institut for Meereskunde, Kiel
IMARPE	Instituto del Mar del Peru
INOCAR	Instituto Oceanografico de la Armada
INP	Instituto Nacional de Pesca
OSU	Oregon State University
URI	University of Rhode Island
WHOI	Woods Hole Oceanographic Institution

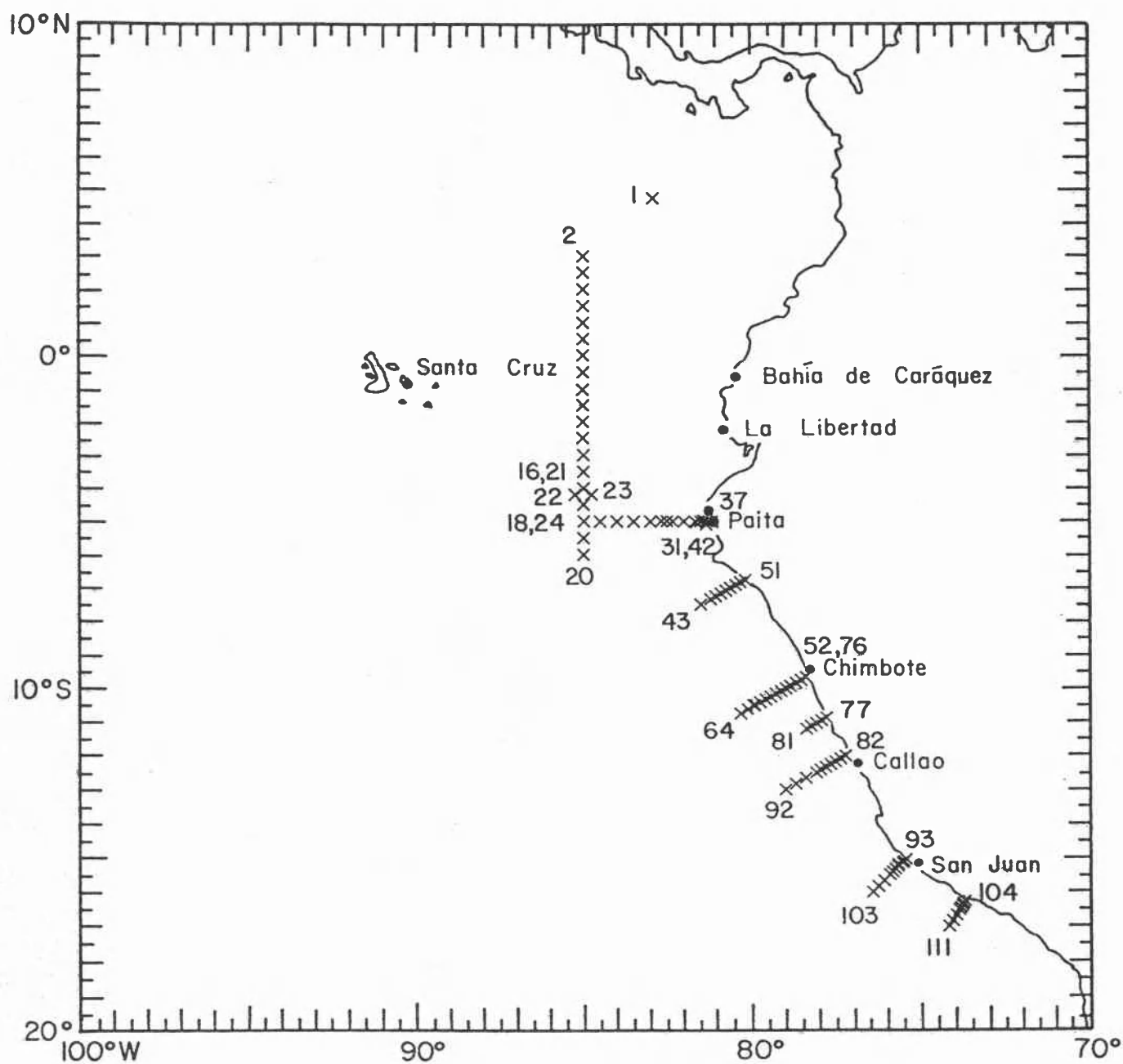


Figure 1. Location of CTD stations during WL83L2, 1-24 February 1983.

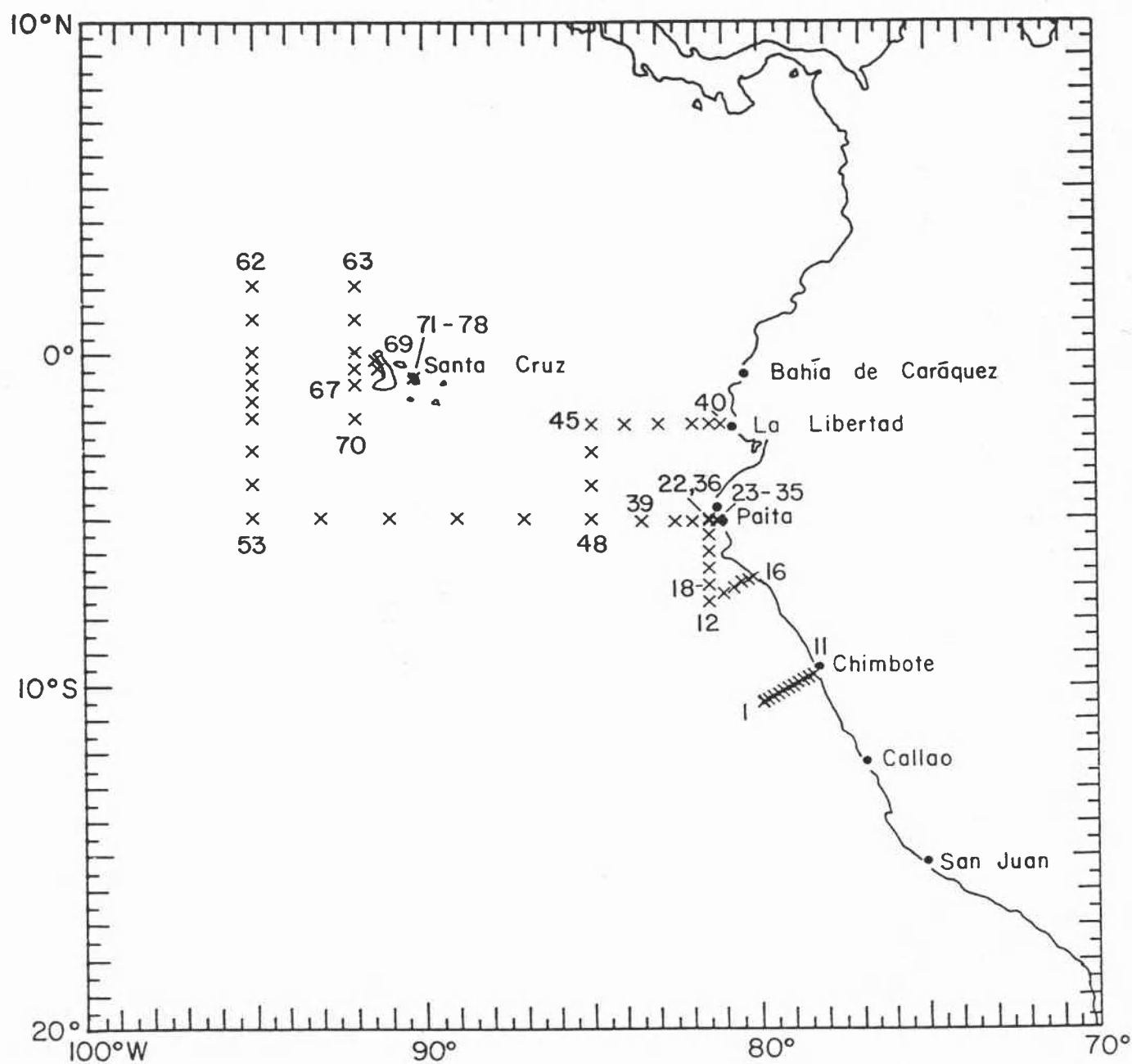


Figure 2. Location of CTD stations during WL83L3, 1-23 March 1983.

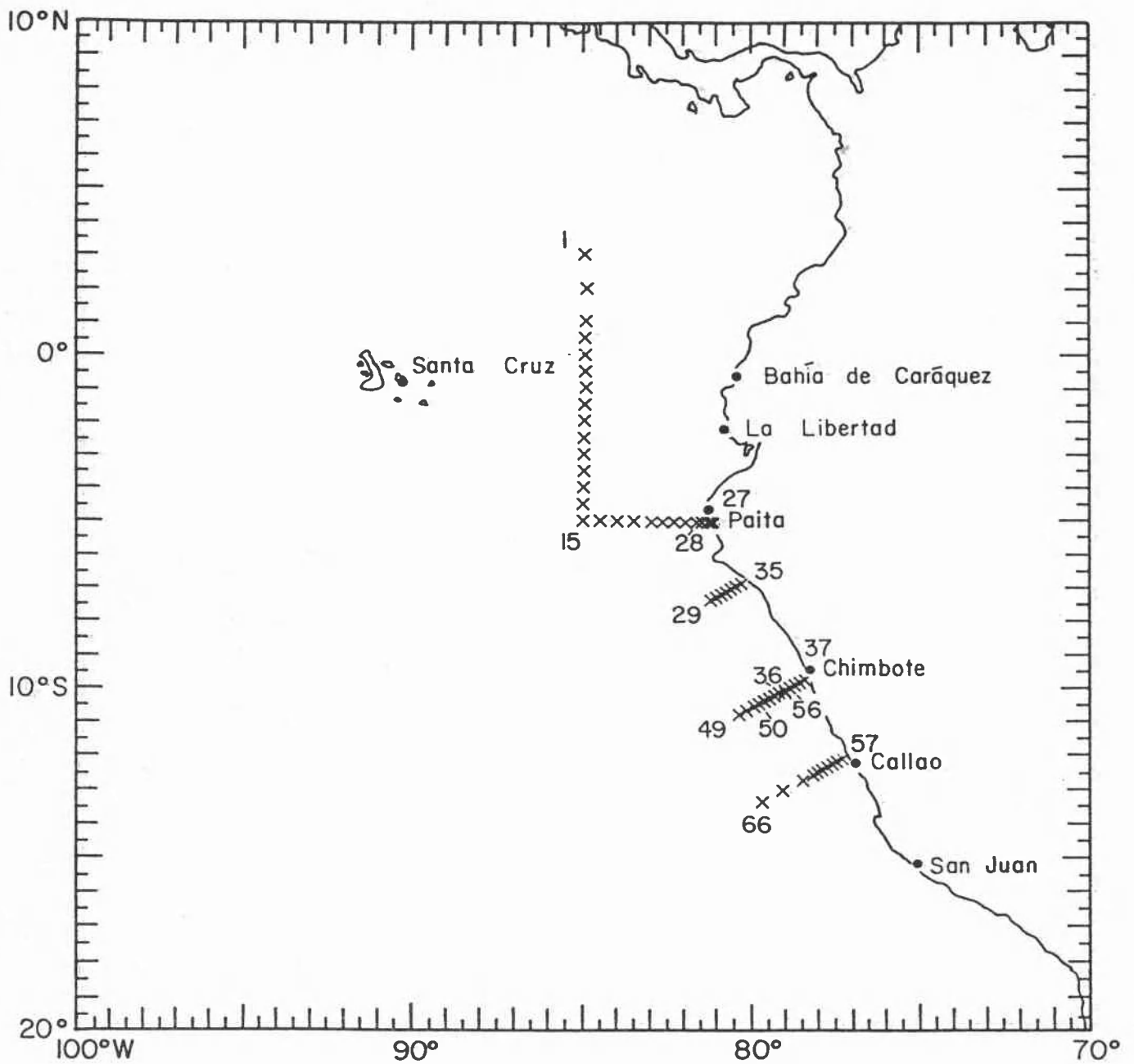


Figure 3. Location of CTD stations during EN109, 15-28 November 1983.

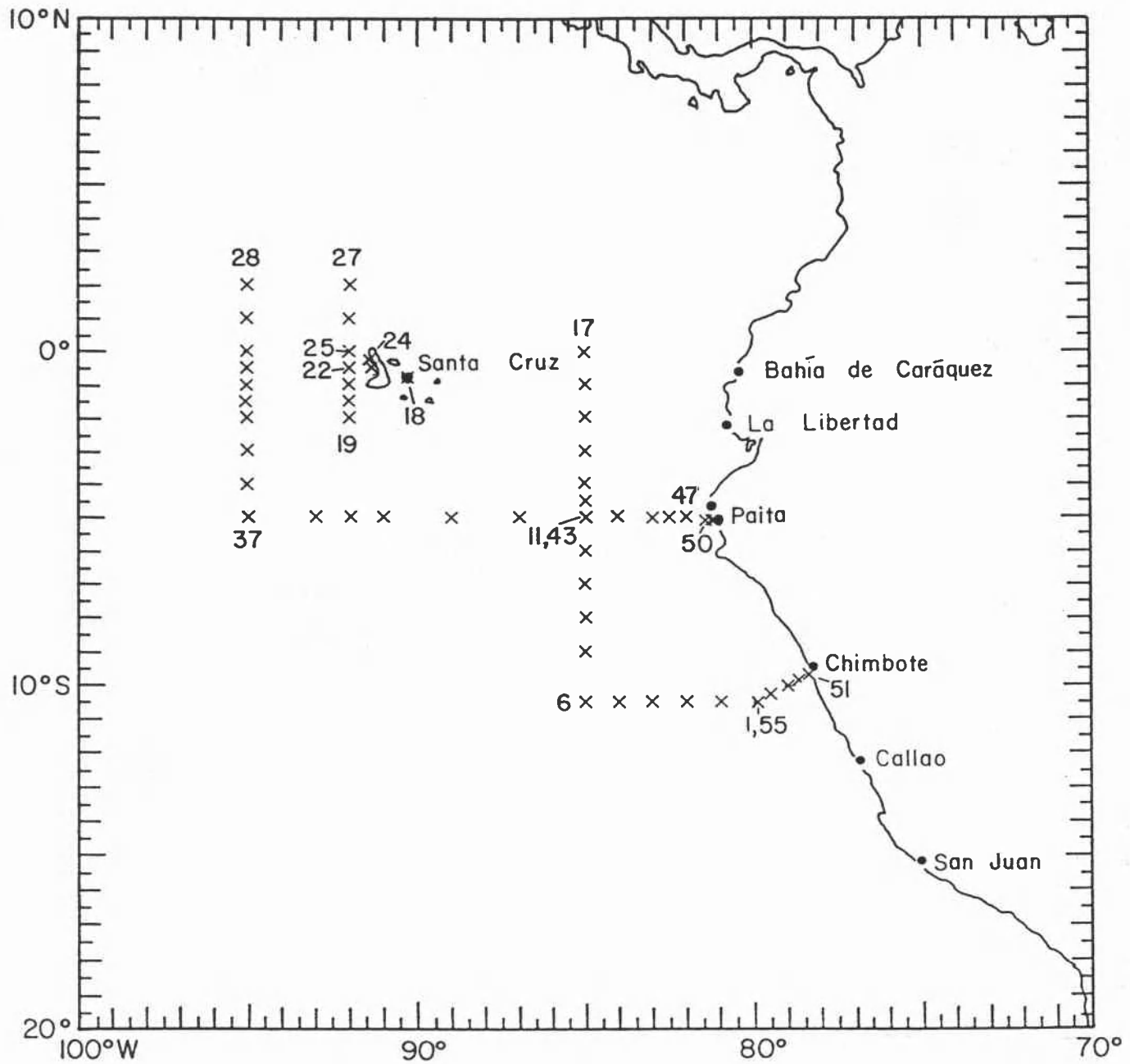


Figure 4. Location of CTD stations during EN110, 3-19 December 1983.

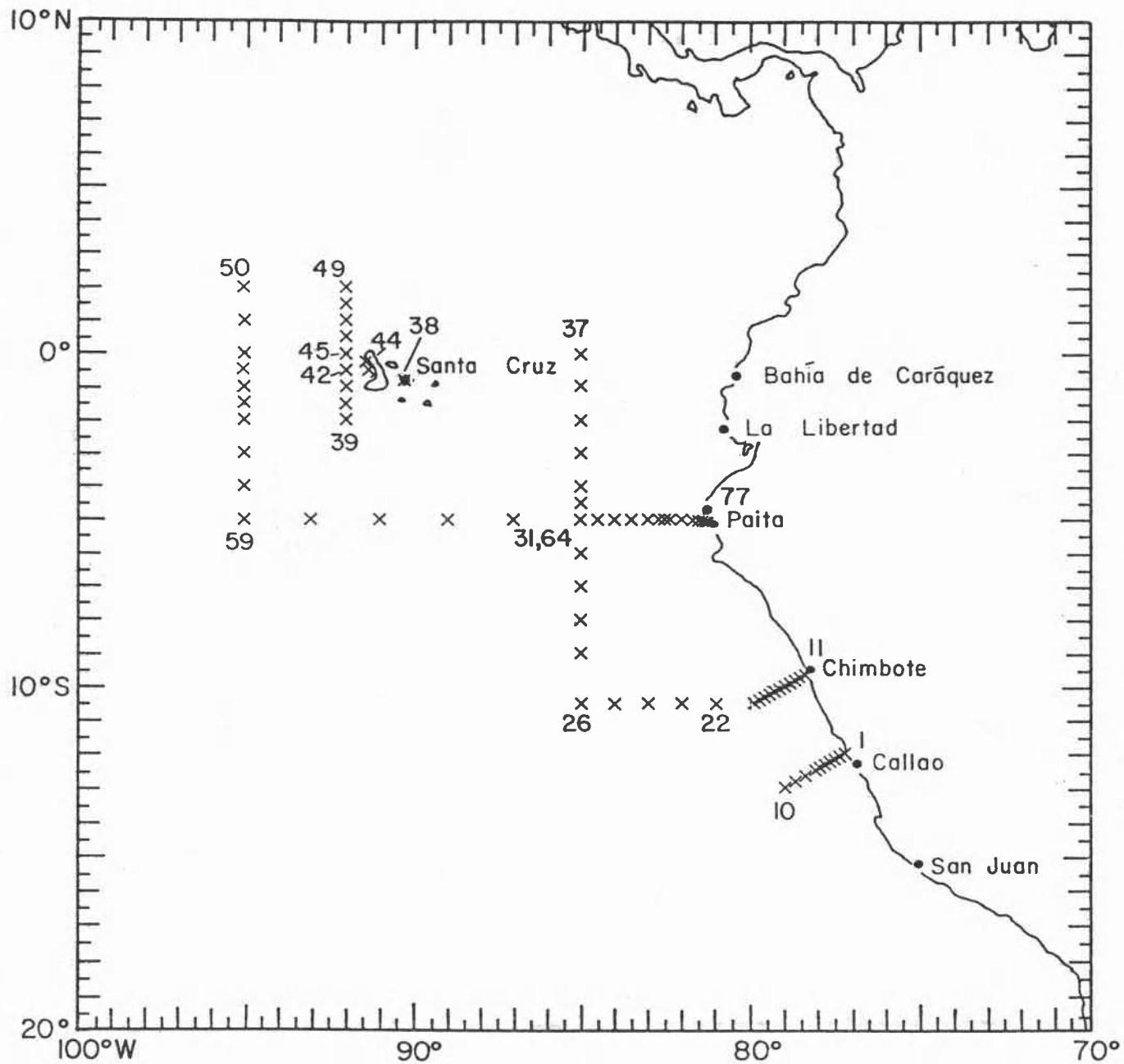


Figure 5. Location of CTD stations during EN115, 6-26 April 1984.

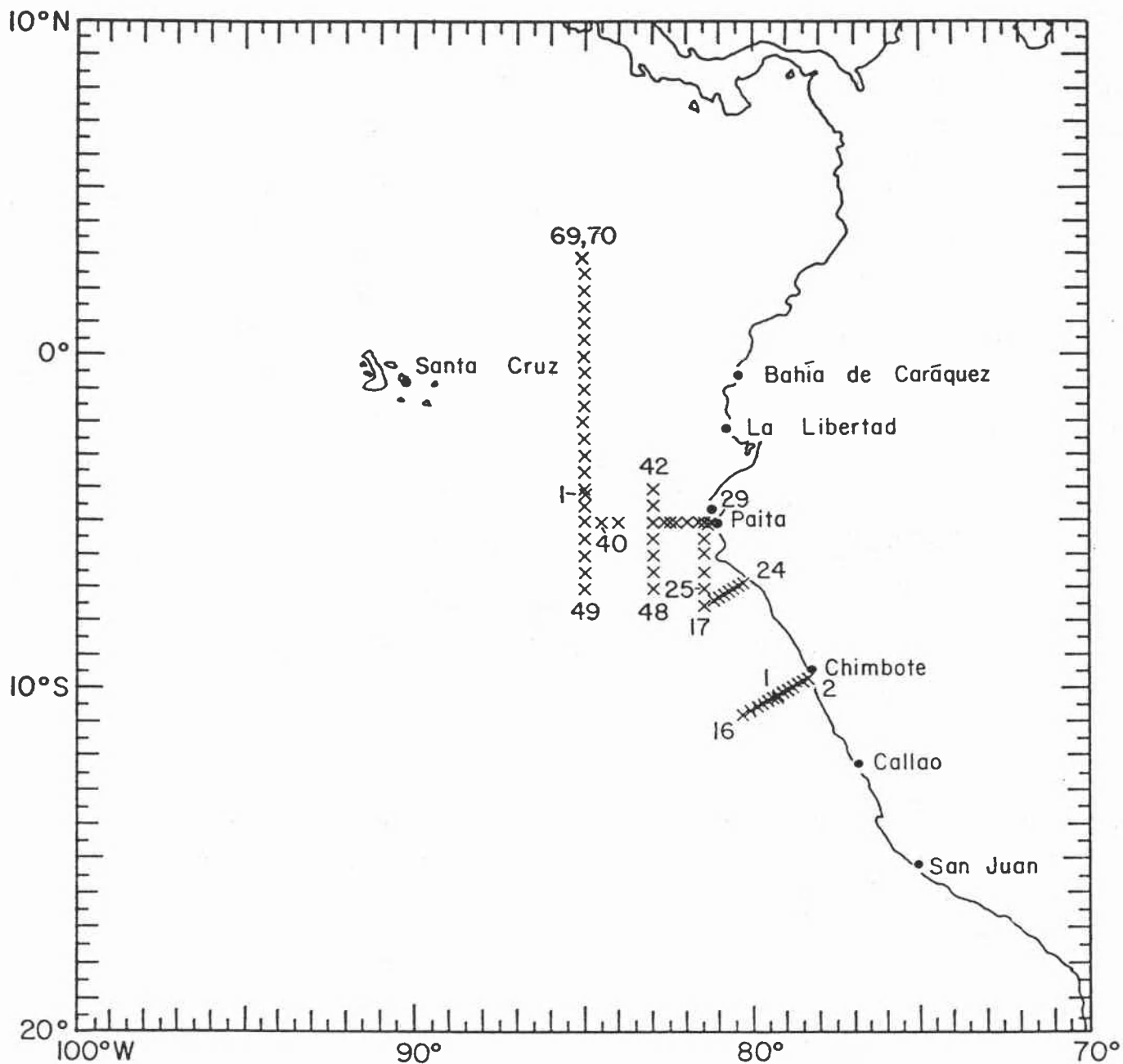


Figure 6. Location of CTD stations during EN116, 3-16 May 1984.

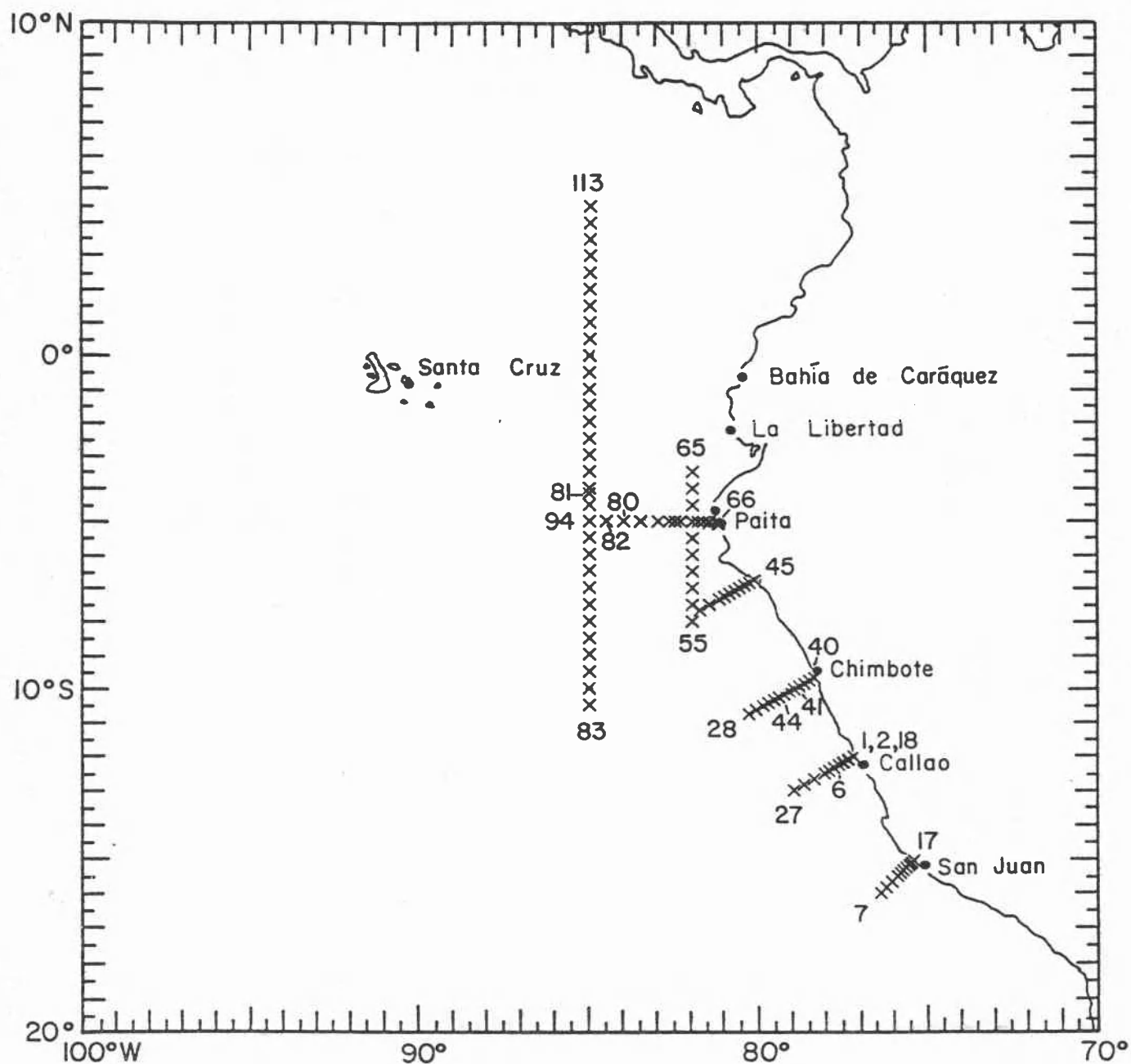


Figure 7. Location of CTD stations during WL85L2, 10-30 March 1985.

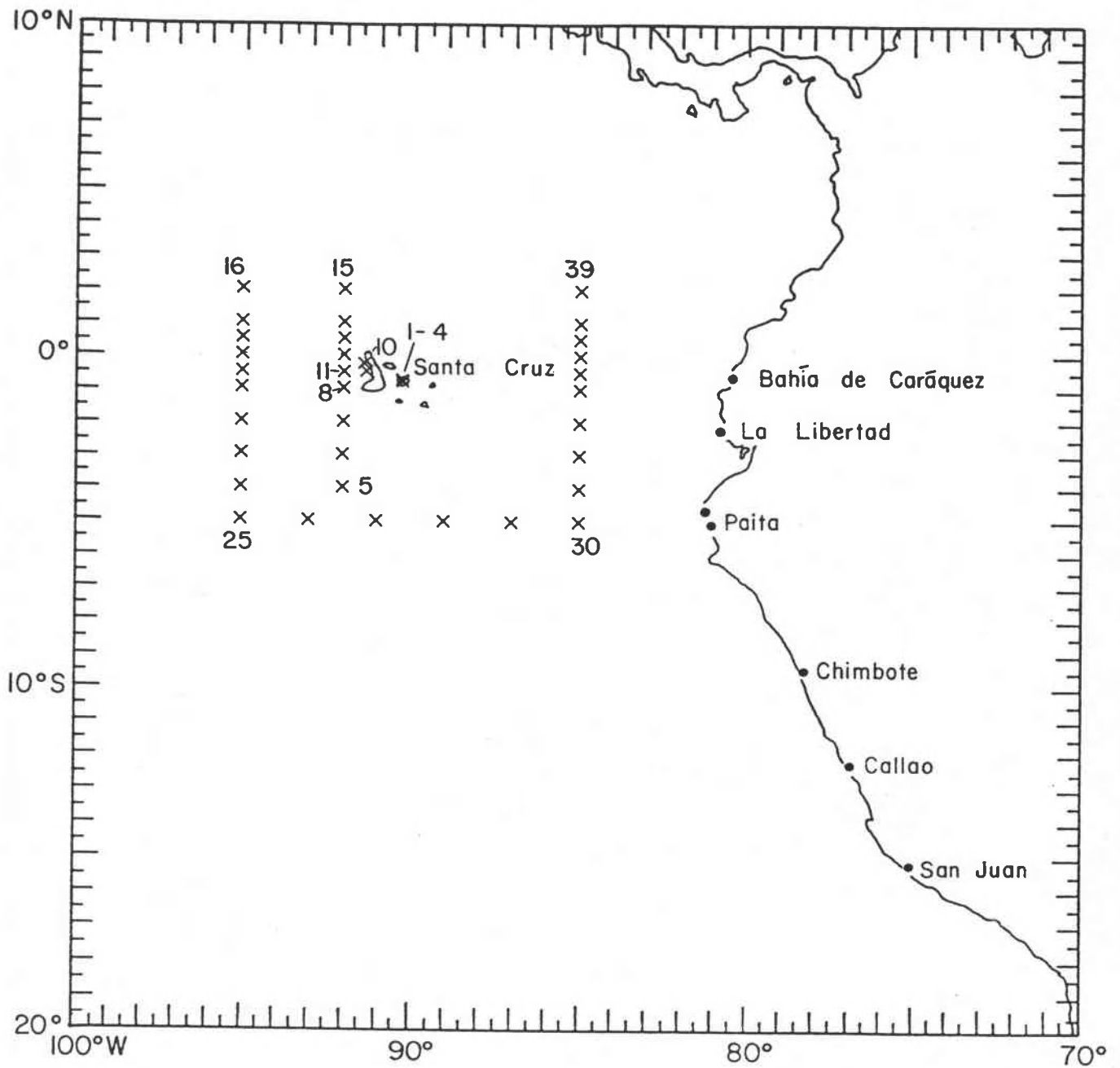


Figure 8. Location of CTD stations during WL85L3, 10-21 April 1985.

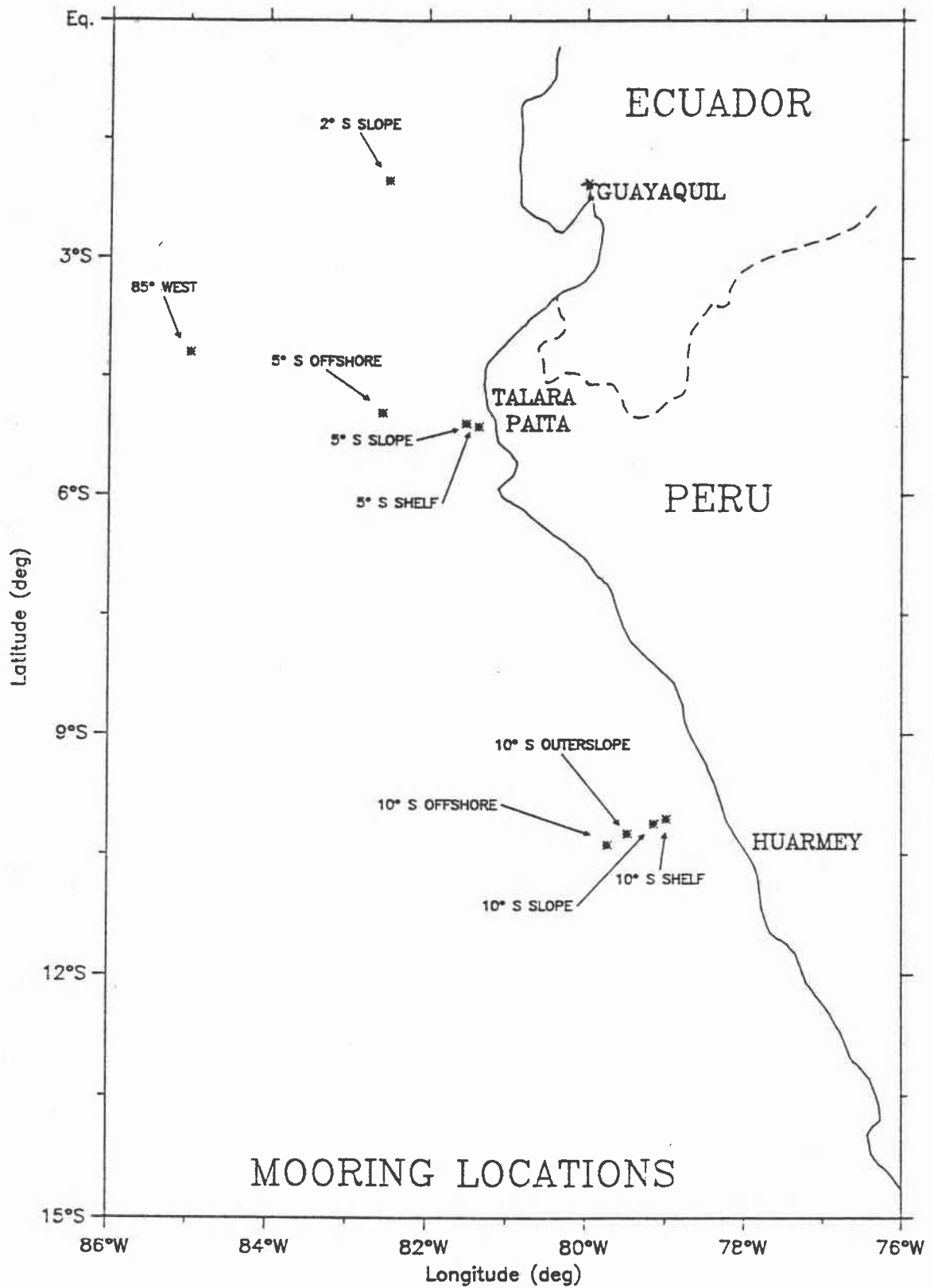


Figure 9. Locations of current meter moorings of the Peru Currents Study, 1981 - 1985.

Table 2. List of moorings recovered and deployed during WL83L2.

Date (1983)	Time (GMT)	Mooring	Location		Recovered/ Deployed
			Lat	Long	
Feb. 6	2021-2247	85°W	4°12.2S	84°59.0W	deployed
8	1525-1725	5°S offshore	4°57.7	82°33.1	deployed
9	1255-1332	5°S shelf	5°6.4	81°20.3	recovered
9	1534-1552	5°S shelf	5°6.3	81°20.8	deployed
11	1648-1807	5°S slope	5°5.1	81°33.6	deployed
14	1216-1352	10°S shelf	10°3.5	78°58.4	recovered
14	1519-1533	10°S shelf	10°3.8	78°58.8	deployed
15	1336-1535	10°S outer slope	10°17.3	79°28.5	recovered
15	1740-1905	10°S outer slope	10°12.8	79°20.0	deployed
16	1647-1834	10°S offshore	10°23.6	79°43.8	recovered

Table 3. List of moorings recovered and deployed during EN109.

Date (1983)	Time (GMT)	Mooring	Location		Recovered/ Deployed
			Lat	Long	
Nov. 15	0745-940	IES#1, S/N#38	3°N	85°W	recovered & deployed
17	~0550	IES#2, S/N#41	2°S	85°W	recovered & deployed
18	1200-1616	85°W	4°12.2S	84°59.0W	recovered
18	1753-2015	85°W	4°12.4	84°57.2	deployed
20	1127-1317	5°S slope	5°5.1	81°33.6	recovered
20	1701-1748	5°S shelf	5°6.3	81°20.8	recovered
20	1932-1951	5°S shelf	5°4.7	81°20.6	deployed
21	1346-1522	5°S slope	5°4.9	81°30.8	deployed
23	1212-1311	10°S shelf	10°3.8	78°58.8	recovered
23	1801-1915	10°S slope	10°6.8	79° 8.9	deployed
25	1249-1332	10°S offshore	10°23.6	79°43.8	recovered
25	1932-1953	10°S outer slope	10°12.8	79°20.0	recovered
26	1334-1504	10°S outer slope	10°14.7	79°19.4	deployed

Table 4. List of moorings recovered and deployed during EN116.

Date (1984)	Time (GMT)	Mooring	Location		Recovered/ Deployed
			Lat	Long	
May 3	1229-1349	10°S outer slope	10°14.7S	79°19.4W	Recovered
3	1738-1942	10°S outer slope	10°15.1	79°17.9	Deployed
3	2113-2131	10°S slope	10°6.8	79°8.9	Recovered
4	1503-1617	10°S slope	10°7.4	79°8.3	Deployed
5	1508-1527	10°S shelf	10°0.3	78°59.6	Deployed
8	1610-1655	5°S slope	5°4.9	81°30.8	Recovered
8	2013-2250	5°S slope	5°4.3	81°30.2	Deployed
9	1300-1500	5°S offshore	4°57.7	82°33.1	Recovered
10	1225-1310	5°S shelf	5°4.7	81°20.6	Recovered
11	1200-1308	85°W	4°12.4	84°57.2	Recovered
11	1735-2026	85°W	4°9.7	84°58.6	Deployed
15	a.m.	IES #2	2°S	85°W	Recovered
16	evening	IES #1	3°N	85°W	Recovered

Table 5. List of moorings recovered and deployed during WL85L2.

Date (1985)	Time (GMT)	Mooring	Location		Recovered/ Deployed
			Lat	Long	
Mar 13	1300-1530	OSU-AOML TOGA	11°58.55	77°35.2W	Deployed
15	1320-1406	10°S outer slope	10°15.15	79°17.9W	Recovered
15	1646-1751	10°S slope	10°7.4	79°8.3	Recovered
15	1915-1940	10°S shelf	10°0.3	78°59.6	Recovered
23	1235-1330	5°S slope	5°4.3	81°30.2	Recovered
24	1654-1727	85°W	4°9.7	84°58.6	Recovered

SAMPLING PROCEDURES, CALIBRATION AND DATA PROCESSING

A Neil Brown Instruments Mark IIIb conductivity-temperature depth probe (CTD) was used to obtain continuous profiles of temperature and salinity versus pressure at each station. A General Oceanics rosette water sampler was mounted with the CTD, and a station consisted of one rosette-CTD cast lowered at about 45 m min. The CTD was equipped with a Beckman dissolved oxygen probe and during cruises WL83L2, WL83L3, WL85L2 and WL85L3, the CTD was also equipped with a Sea Tech. Inc. transmissometer (#8031). The oxygen and transmissometer data will be presented in a separate data report.

One of two CTD probes was used for each cruise. OSU's CTD probe #2561 fitted with a 1600 db pressure sensor was used for the R/V Wecoma cruises, and URI's CTD probe #2777 fitted with a 6500 db pressure sensor was used for the R/V Endeavor cruises. Characteristics of the probes used are presented in Table 6. In each probe, the fast response thermistor had been disabled and replaced in the circuitry with a precision 10 ohm resistor. Each CTD was set to sample at its maximum rate of 32 Hz. The time constant of the platinum resistance thermometer of each probe (Table 6) was determined from the slope of the phase spectrum between the measured temperature and conductivity as suggested by Millard, Toole and Swartz (1980).

OSU's CTD probe #2561 was calibrated for pressure, temperature and conductivity by the manufacturer in November 1982 and a post-cruise calibration was done for temperature and conductivity in June 1985. URI's CTD probe #2777 was calibrated for pressure, temperature and conductivity by the Woods Hole Oceanographic Institute in October 1983 and March 1984. In situ calibration data were also collected for the temperature and conductivity sensors. Water samples were drawn from 2 or more Niskin

Table 6. Characteristics of the CTD probes used.

<u>Probe</u>	<u>Interval</u>	<u>Temperature Time Constant</u>		<u>P</u>	<u>T</u>	<u>C</u>
2561	32 ms	235 ms	Range:	1600 db	-2 to 30°C	1 to 65 mmhos
			Resolution:	0.025 db	.0005°C	.001 mmhos
			Accuracy:	± 1.6 db	± .005°C	± .005 mmhos
2777	32 ms	205 ms	Range:	6500 db	-2 to 30°C	1 to 65 mmhos
			Resolution:	0.1 db	.0005°C	.001 mmhos
			Accuracy:	± 6.5 db	± .005°C	± .005 mmhos

bottles mounted on the rosette and stored in round 4 oz. glass bottles with new poly-seal caps, with an additional outer seal of 'Parafilm'.

Temperatures were recorded from 3 or 6 protected reversing thermometers mounted on one or two Niskin bottles. The reversing thermometers have an accuracy of $\pm 0.02^{\circ}\text{C}$ and were corrected using the results of calibrations done once every 3 years at the Northwest Regional Calibration Center. Water sample salinity was determined by Guildline Model 8400 Autosol salinometers with precision of better than ± 0.002 and accuracy of ± 0.003 .

CTD data are recorded at actual sample depth after the bottle is tripped during the upcast. 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 at each station during each cruise, except during EN110 when no duplicates were drawn. One sample from each pair was analyzed at sea either on OSU's Autosol on the RV Wecoma or on URI's Autosol on the R/V Endeavor except the first set of WL85L3 which was run on OSU's Autosol at the OSU Marine Science Center. Every third or fourth sample of the second sets was run on OSU's Autosol at the MSC or on URI's Autosol on the Endeavor to check the results of the analysis of the first sets. The comparison of the two sets for each cruise was within the Autosol's error limits so no further analysis was done on the second sets, and the first sets were used for the final comparisons.

Results of the comparison between in situ sample data and the CTD output are summarized for each cruise in Table 7. The CTD pressure at the surface prior to and after a cast was recorded at regular intervals during

Table 7. Summary of the Comparisons between the Neil Brown CTD Probes and in situ calibration. Mean differences are compared by sample value minus CTD value.

	<u>No. of Samples</u>	<u>Mean Δ</u>	<u>Std. Dev.</u>
WL83L2-3			
Temperature ($^{\circ}\text{C}$)	270	-0.011	0.015
Conductivity (mmhos cm^{-2})	461	0.003	0.004
Salinity ($^{\circ}/\text{‰}$)	461	0.003	0.004
EN109			
Temperature ($^{\circ}\text{C}$)	48	-0.001	0.007
Conductivity mmhos cm^{-2})	191	0.002	0.003
Salinity ($^{\circ}/\text{‰}$)	191	0.002	0.003
Pressure (db)	51	-2.05	0.36
EN110			
Temperature ($^{\circ}\text{C}$)	43	0.008	0.017
Conductivity	106	0.000	0.005
Salinity ($^{\circ}/\text{‰}$)	106	0.000	0.004
Pressure (db)	85	-2.21	1.46
EN115			
Temperature ($^{\circ}\text{C}$)	58	0.001	0.028
Conductivity	173	0.002	0.004
Salinity ($^{\circ}/\text{‰}$)	173	0.002	0.004
Pressure (db)	91	-2.79	0.86
EN116			
Temperature ($^{\circ}\text{C}$)	47	0.009	0.010
Conductivity	149	0.000	0.003
Salinity ($^{\circ}/\text{‰}$)	149	0.000	0.003
Pressure (db)	44	-2.63	0.56
WL85L2			
Temperature ($^{\circ}\text{C}$)	95	-0.010	0.011
Conductivity	162	0.007	0.003
Salinity ($^{\circ}/\text{‰}$)	162	0.007	0.003
Pressure (db)	62	0.30	0.27
WL85L3			
Temperature ($^{\circ}\text{C}$)	27	-0.014	0.011
Conductivity	41	0.010	0.002
Salinity ($^{\circ}/\text{‰}$)	41	0.011	0.002
Pressure (db)	22	0.60	0.20

all the cruises except WL83L2 and 3. Pressure corrections of +2.0, +2.2, +2.8 and +2.6 were applied to the CTD pressure of cruises EN109, EN110, EN115 and EN116 respectively. No pressure corrections were applied to data from the Weloc cruises. The temperature differences for all cruises are within sampling and instrument errors (Table 7) so no further corrections were applied to temperature prior to processing.

Sample conductivities were calculated using the sample salinity value with the CTD temperature and pressure values; a value of $42.909 \text{ mmho cm}^{-1}$ for the conductivity of standard seawater at 15°C (Fofonoff, Hayes and Millard, 1974) was used to convert the measured conductivity ratios to conductivity. Sample conductivities were compared to CTD conductivities which had been corrected for temperature and pressure effects on the cell. The conductivity differences for CTD probe #2777 used on the Endeavor cruises #109, 110, 115 and 116 were within the sampling and instrument errors (Table 7) so no further corrections were applied to conductivity prior to processing the data for these cruises. On cruise EN109 the CTD hit bottom on Station 25. A recast was done immediately and on the real-time plot of the data, temperature appeared unchanged but salinity looked slightly offset from the first down cast. A comparison was done of the conductivity differences between stations 1-24 and 26-66, which had mean differences of .002 and .001 respectively, both within the instrument and sampling errors. For CTD probe #2561, used on the Wecoma cruises WL83L2, WL83L3, WL85L2, WL85L3, the conductivity differences had means greater than the sampling and instrument errors (Table 7) so corrections were computed for a multiplication factor using the equation:

$$\frac{\sum_{i=1}^N (C_S - C_{CTD})_i}{\sum_{i=1}^N (C_{CTD})_i}$$

Where C_S is the conductivity of each sample and C_{CTD} is the CTD conductivity at the sample depth. The uncorrected CTD conductivity was then multiplied by the correction factor to arrive at the corrected conductivity. The conductivity correction applied to each station prior to processing the data was 1.000067 for cruises WL83L2 and WL83L3, 1.000166 for cruise WL85L2 and 1.000272 for cruise WL85L3.

CTD DATA PROCESSING PROCEDURES

The CTD data are recorded at sea on a Kennedy 9-track data logger, with many stations on each tape. Data logging normally begins as soon as the CTD probe is in the water, and continues until after the probe has reached the maximum depth. The first step in data processing is to obtain a directory of the data tape using program NBCTD (Wecoma cruises) or URIDIR (Endeavor cruises). For each station, this directory lists the header data, the block number in which the instrument descent begins, and the maximum pressure. NBCTD (Wecoma cruises) or URITAP (Endeavor cruises) is then used to create disc files of pressure, temperature, conductivity, oxygen and transmissometer counts for each cast. This program also corrects the conductivity data for variations in cell geometry due to pressure and temperature changes. Using program CTDRED2 (up through EN109) or CTDRED6 we then apply the temperature, conductivity and pressure calibrations if necessary, and check for extraneous values and extreme gradients. This program applies a recursive filter designed by R. Millard (S. Hayes, NOAA/PMEL, pers. comm.) to the conductivity data to remove the phase

difference introduced by the finite response time ($T=235$ msec for probe #2561, 205 msec for probe #2777) of the temperature sensor; this filter has the form

$$C(n) = a_0 C(n-1) + (1-a_0) C_0(n)$$

where $C_0(n)$ is the observed value and $C(n)$ is the filtered value of the n^{th} scan, and $a_0 = T / (T + t_i) = .880$ for probe #2561, .865 for probe #2777 is a constant determined from the time constant T and the time interval t_i between scans. The same recursive filter is applied to the pressure data to reduce the digitizing noise and ensure that the pressure data is in phase with the temperature and conductivity data at low frequencies (< 1 Hz). Practical salinity (Lewis, 1978) is computed from the temperature and the filtered conductivity and pressure data using standard algorithms (Fofonoff and Millard, 1983) and a value of 42.909 to convert conductivity to conductivity ratio (Fofonoff, Hayes and Millard, 1974).

The filtered pressure data are used to eliminate the ascending scans caused by ship's motion. Data collected during descent are sorted into 2 dbar bins, and the extremes and averages of each variable are computed for each bin. Profiles of the temperature and salinity extremes are plotted to determine whether further editing is needed, and the 2 dbar mean temperatures and salinities constitute the processed data. When editing appears to be necessary, the original data files are examined in detail; data points that are rejected are replaced by linearly interpolated values, and the files are reprocessed using CTDRED6. Stations that were edited during processing are presented in Table 8. The stations also have footnotes in the listings in the body of the data report.

The processed data files containing integral pressure, and average temperature, conductivity, salinity, transmission, etc., are archived. These

files are used to calculate other parameters of interest such as potential temperature (θ), potential density anomaly (σ_θ), specific volume anomaly, geopotential anomaly, sound velocity, etc., from the new equation of state of sea-water (UNESCO, 1981) using standard algorithms (Fofonoff and Millard, 1983). In this data report we show only profile plots of temperature, salinity, and σ_θ vs. pressure, and tables of temperature, salinity, σ_θ , specific volume anomaly and geopotential anomaly.

Table 8. Stations edited during data processing.

Cruise	Sta- tion	Depth	Problem	Remedy
WL83L2	9	552-553 db	Jump in conductivity	Linearly interpolated processed salinity 551-555 db.
	14	131 db	Jump in conductivity	Linearly interpolated processed salinity 129-133 db.
	46	104-109, 688-691 db	Jump in conductivity	Linearly interpolated processed salinity 687-693 db.
	96	390 db	CTD signal level dropped	CTD brought up to 360 and started down again. First cast joined with 2nd cast at 361 db, resulting in 2 minute gap.
WL83L3	12	687 db	Jump in conductivity	Linearly interpolated processed salinity 685-689 db.
	19	643-683 db	Jump in conductivity	Linearly interpolated processed salinity 641-685 db.
	41	502-503 db	Sudden increase in conductivity (possibly detritus in cell that finally washed out at 502 db)	No changes to data.
	47	39-41 db	Jump in conductivity	Linearly interpolated processed salinity 37-43 db.
	49	759-773 db	Jump in conductivity	Linearly interpolated processed salinity 757-775 db.
EN109	3	406-410 db	Erratic spikes in all data channels	6 db gap in data 405-411 db.
	13	253-273 db	Jump in conductivity	Linearly interpolated processed salinity 251-275 db.
	22	181-213, 865-911 db.	Jump in conductivity	Linearly interpolated processed salinity 179-215 db and 865-911 db.
	25	123.1 db	CTD hit bottom	Ended cast at 123 db.
	52	390 db	Jump in conductivity	Stopped cast at 390 db, brought CTD up to 350 db and restarted: 7 min. gap at 365 db where 2nd cast was joined original cast data.

Table 8 continued

Cruise	Sta- tion	Depth	Problem	Remedy
EN110	9	138-144 db 147-150 db	Gaps in raw data	Linearly interpolated processed salinity and temperature 141-147, 149-153 db.
	12	709 db	Sudden decrease in conductivity, salinity	No change made to data.
	17	5 db	Jump in conductivity	Linearly interpolated processed salinity 3-7 db.
	21	458-550 db	Jump in conductivity	Stopped cast at 550 db; brought CTD up to 440 db and restarted; 6 min. gap at 457 db where 2nd cast was joined to original cast data.
	25	297-299 db	Jump in conductivity	Linearly interpolated processed salinity 295-301 db.
	30	45 db	Jump in conductivity	Linearly interpolated processed salinity 43-47 db.
	52	44-48 db	Gap in raw data	Linearly interpolated processed salinity 45-51 db.
EN115	14	71 db	Jump in conductivity	Linearly interpolated processed salinity 69-73 db.
	22	79-111 db	Jump in conductivity	Linearly interpolated processed salinity 77-113 db.
	32	811-837 db	Jump in conductivity	Stopped cast at 902 db; brought CTD up to 762 db and restarted; 6 min. gap at 809 db where 2nd cast was joined to original cast data.
	45	10 db	Cast stopped to enter correct filter for real time listing; cast re-started at 10 db.	8 min. gap at 11 db where 2nd part of cast was joined to first part of cast.
EN116	12	459-465 db	Jump in conductivity	Linearly interpolated processed salinity 457-467 db.
	50	171-177 db	Jump in conductivity	Linearly interpolated processed salinity 169-179 db.

Table 8 continued

Cruise	Sta- tion	Depth	Problem	Remedy
EN116	51	15-419 db	Jump in conductivity	Linearly interpolated processed salinity 413-421 db.
	52	915-917 db	Jump in conductivity	Linearly interpolated processed salinity 913-919 db.
WL85L2	5	501 db	Stopped CTD lowering while adjusting PDR to get bottom depth.	9 min. delay at 499-501 db where 2nd part of cast was joined to first.
	14	111-117 db	Jump in conductivity	Linearly interpolated processed salinity 109-119 db.
	31	559-567 db	Jump in conductivity	Linearly interpolated processed salinity 557-569 db.
	42	551-581 db	Jump in conductivity	Stopped cast at 627 db; brought CTD up to 500 db and started; 4 min. gap at 539-541 db where 2nd cast was joined to original cast data. Recast had a jump in conductivity at 567-581 db so linearly interpolated processed salinity 565-583 db .
	58	24-25 db	Jump in conductivity	Linearly interpolated processed salinity 23-27 db.
	83	501-503 db	Jump in conductivity	Linearly interpolated processed salinity 499-505 db.
	93	407-477 db	Jump in conductivity	Stopped cast at 579 db; brought CTD 350 db and restarted; 4 min. gap at 401-403 db where 2nd cast was joined to original cast data.
WL85L3	8	551-557	Jump in conductivity	Linearly interpolated processed salinity 549-559 db.

DATA PRESENTATION

The body of this data report presents the data from all 616 stations from the 8 cruises. There is one section for each cruise; each section begins with the map showing station locations, and a table listing the stations. For each station, we present vertical profiles of temperature, salinity and the density anomaly, sigma-theta and tabulations of selected parameters at standard depths. Header information for each station includes:

STA NO	Consecutive station number
STATION	The CTD section name (initialed) and number of the station on the line (refer to Figures 1-8)
LAT	Latitude in degrees and minutes north or south of the equator
LONG	Longitude in degrees and minutes west of the Greenwich meridian
DATE	Day, month, year
TIME	Universal Time (Greenwich Mean Time)
PROBE	Serial number of the CTD probe
DEPTH	Sonic depth in meters, corrected according to Matthews Tables

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

PROFILE PLOTS AND LISTINGS

WL83L2

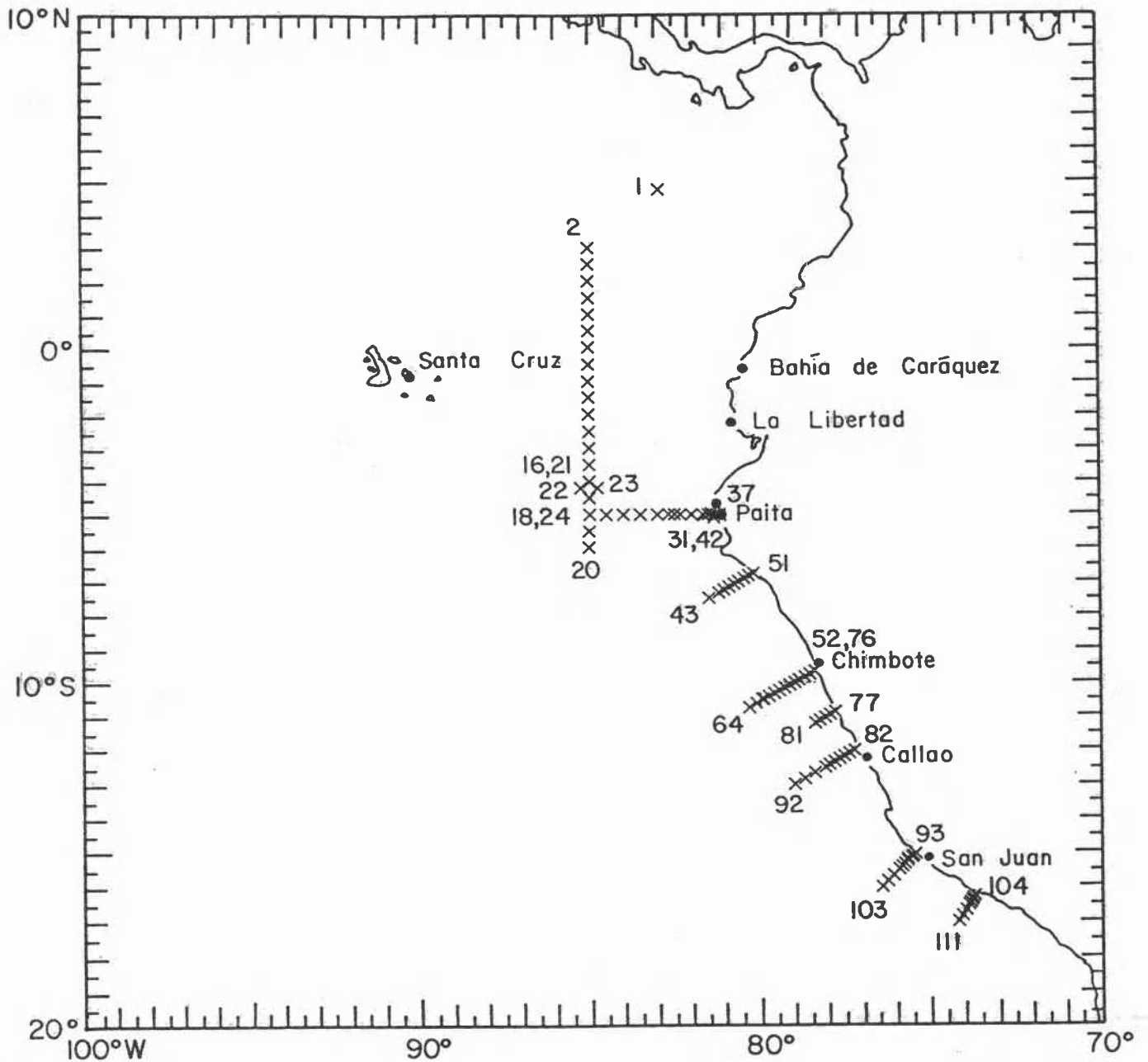


Figure 1. Location of CTD stations during WL83L2, 1-24 February 1983.

Table 9. List of stations occupied during WL83L2 showing date, time, location, wind speed and direction and atmospheric pressure.

Date	Time	Station No. Name	Location		Wind		Pressure (mb)		
			Lat.	Long.	Dir. (°T)	Spd. (kts)			
Feb.	2	1801	1	TEST	4°44.6'N	82°55.0'W	60	8	1007.9
Feb.	3	1231	2	A-1	3°00.0'N	85°00.0'	80	7	1007.0
	3	1621	3	A-2	2°30.1'N	84°59.9'	70	9	1018.1
	3	2013	4	A-3	2°00.0'N	85°00.0'	70	8	1006.4
Feb.	4	0014	5	A-4	1°30.1'N	85°00.0'	65	6	1016.2
	4	0409	6	A-5	1°00.0'N	85°00.1'	50	8	1009.0
	4	0747	7	A-6	0°30.0'N	85°00.1'	40	6	1008.1
	4	1121	8	A-7	0°00.4'N	85°00.0'	40	5	1008.0
	4	1500	9	A-8	0°30.0'S	85°00.1'	50	4	1010.9
	4	1931	10	A-9	1°01.8'S	85°00.8'	AIRS	--	1009.1
	4	2247	11	A-10	1°29.9'S	85°00.0'	AIRS	--	1008.0
Feb.	5	0224	12	A-11	2°00.0'S	85°00.0'	AIRS	--	1010.3
	5	0624	13	A-12	2°30.0'S	85°00.0'	270	7	1010.8
	5	0942	14	A-13	2°59.9'S	84°59.7'	280	10	1008.8
	5	1325	15	A-14	3°30.0'S	85°00.0'	AIRS	--	1011.3
	5	1709	16	A-15	4°00.0'S	85°00.0'	60	10	1012.5
	5	2044	17	A-16	4°29.9'S	85°00.0'	AIRS	--	1009.5
Feb.	6	0024	18	A-17	4°59.9'S	84°59.1'	70	10	1009.0
	6	0410	19	A-18	5°30.0'S	85°00.0'	30	10	1011.0
	6	0807	20	A-19	6°00.0'S	84°59.9'	50	8	1009.2
Feb.	7	0037	21	A-15	4°00.0'S	85°00.0'	AIRS	--	1010.9
	7	0325	22	AW	4°11.9'S	85°15.0'	295	6	1012.1
	7	0713	23	AE	4°11.9'S	84°45.0'	270	6	1011.5
	7	1019	24	A-16	4°29.9'S	85°00.0'	270	6	1010.2
	7	1512	25	B-1	5°00.5'S	84°30.0'	215	5	1012.8
	7	1845	26	B-2	5°00.0'S	84°00.1'	150	6	1012.1
	7	2211	27	B-3	5°00.0'S	83°30.0'	210	4	1009.5
Feb.	8	0117	28	B-4	5°00.0'S	83°00.0'	AIRS	--	1011.1
	8	0426	29	B-5	4°59.9'S	82°40.0'	70	6	1012.9
	8	0706	30	B-6	5°00.1'S	82°20.0'	320	6	1011.1
	8	0947	31	B-7	5°00.0'S	82°00.0'	AIRS	--	1011.0
	8	1856	32	B-5.5	4°59.9'S	82°30.1'	--	0	1011.3
Feb.	9	0019	33	B-8	5°02.5'S	81°38.1'	230	7	1010.0
	9	0155	34	B-9	5°00.0'S	81°30.0'	AIRS	--	1010.9
	9	0347	35	B-10	4°58.1'S	81°25.7'	AIRS	--	1011.5
	9	1213	36	FSMS	5°06.3'S	81°20.4'	20	12	1011.0
	9	1732	37	B-12	5°00.0'S	81°10.0'	270	5	1009.0
	9	1824	38	B-11	5°00.0'S	81°15.0'	--	--	1007.5
	9	1921	39	B-10	5°00.0'S	81°20.0'	200	12	1007.9
	9	2036	40	B-9	5°00.0'S	81°30.0'	200	14	1007.1
	9	2232	41	B-8	5°00.4'S	81°40.5'	200	10	1006.5
Feb.	10	0126	42	B-7	5°00.0'S	82°00.0'	200	12	1007.1
Feb.	12	0819	43	C-9	7°29.9'S	81°30.0'	150	16	1008.5
	12	1102	44	C-8	7°19.9'S	81°13.1'	150	16	1009.0
	12	1317	45	C-7	7°15.0'S	81°04.0'	140	14	1010.1
	12	1517	46	C-6	7°10.0'S	80°55.0'	150	14	1010.1
	12	1727	47	C-5	7°05.0'S	80°46.0'	160	13	1010.0
	12	1818	48	C-4	7°00.0'S	80°38.0'	170	12	1009.0

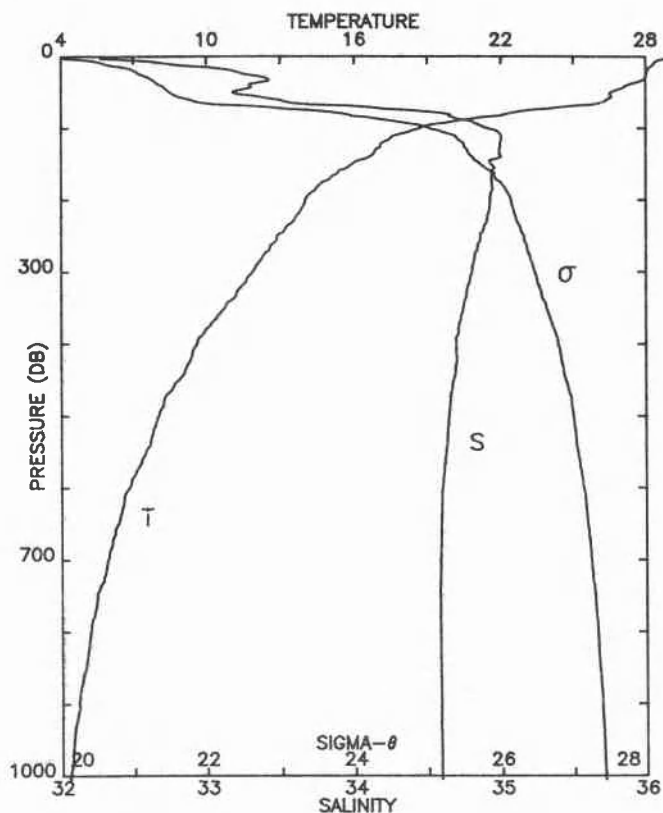
Table 9 cont'd.

1983

Date	Time	Station No. Name	Location		Wind		Pressure (mb)
			Lat.	Long.	Dir. (°T)	Spd. (kts)	
Feb.	12 2050	49 C-3	6°55.0'S	80°29.0'W	150	12	1008.0
	12 2211	50 C-2	6°49.9'S	80°20.2'	205	15	1008.0
Feb.	13 0008	51 C-1	6°45.6'S	80°11.4'	175	13	1008.5
	13 1928	52 D-1	9°40.0'S	78°24.0'	190	12	1010.0
	13 2135	53 D-2	9°45.0'S	78°33.0'	170	10	1009.0
Feb.	14 0012	54 D-3	9°50.0'S	78°42.0'	180	12	1010.0
	14 0201	55 D-4	9°54.9'S	78°52.7'	170	14	1010.6
	14 0349	56 D-5	10°00.0'S	79°00.0'	150	15	1011.6
	14 0527	57 D-6	10°05.0'S	79°08.9'	140	13	1011.0
	14 0717	58 D-7	10°10.0'S	79°17.9'	150	12	1009.7
	14 1910	59 D-7	10°10.0'S	79°17.9'	130	12	1009.9
	14 2102	60 D-8	10°15.0'S	79°27.0'	150	12	1008.5
	14 2252	61 D-9	10°20.0'S	79°36.0'	150	14	1008.2
Feb.	15 0052	62 D-10	10°25.0'S	79°45.0'	150	14	1010.0
	15 0256	63 D-11	10°30.2'S	79°57.3'	150	16	1010.1
	15 0632	64 D-12	10°45.0'W	80°20.0'	150	14	1009.1
Feb.	16 0231	65 D-11A	10°37.5'S	80°06.9'	140	18	1008.9
	16 2109	66 D-11	10°30.0'S	79°54.0'	160	16	1007.0
	16 2346	67 D-10	10°25.0'S	79°45.0'	150	16	1007.5
Feb.	17 0125	68 D-9	10°20.0'S	79°36.0'	150	19	1008.1
	17 0310	69 D-8	10°15.0'S	79°27.0'	155	14	1009.0
	17 0513	70 D-7	10°10.0'S	79°18.0'	150	14	1009.0
	17 0700	71 D-6	10°05.0'S	79°09.0'	150	14	1008.5
	17 0902	72 D-5	9°59.6'S	78°59.6'	150	15	1008.0
	17 1052	73 D-4	9°55.5'S	78°51.0'	150	15	1007.2
	17 1240	74 D-3	9°50.0'S	78°42.0'	150	14	1008.8
	17 1409	75 D-2	9°45.0'S	78°33.0'	160	16	1008.9
	17 1528	76 D-1	9°40.0'S	78°24.0'	170	12	1009.1
	17 2323	77 PS-1	10°52.0'S	77°43.0'	170	10	1007.3
Feb.	18 0102	78 PS-2	10°57.0'S	77°57.0'	170	11	1008.2
	18 0232	79 PS-3	11°02.0'S	78°06.0'	160	15	1009.1
	18 0430	80 PS-4	11°07.0'S	78°15.0'	160	16	1009.9
	18 0559	81 PS-5	11°12.0'S	78°23.5'	150	13	1009.7
	18 1557	82 E-1	12°00.0'S	77°14.0'	140	8	1008.9
	18 1714	83 E-2	12°04.9'S	77°23.0'	170	10	1008.1
	18 1844	84 E-3	12°10.0'S	77°31.9'	170	14	1007.7
	18 2011	85 E-4	12°15.0'S	77°40.0'	170	14	1007.0
	18 2126	86 E-4	12°15.0'S	77°40.0'	170	15	1007.0
	18 2326	87 E-5	12°20.0'S	77°48.9'	170	13	1007.5
Feb.	19 0139	88 E-6	12°25.0'S	77°58.0'	160	15	1009.0
	19 0323	89 E-7	12°30.0'S	78°06.0'	160	15	1009.8
	19 0623	90 E-8	12°39.9'S	78°24.0'	160	14	1009.1
	19 0919	91 E-9	12°50.0'S	78°42.0'	150	12	1008.0
	19 1231	92 E-10	13°00.0'S	79°00.0'	150	12	1009.0
Feb.	20 1308	93 N-1	15°02.5'S	75°26.0'	160	14	1009.0
	20 1405	94 N-2	15°06.0'S	75°30.0'	160	18	1009.0
	20 1453	95 N-3	15°08.5'S	75°32.5'	160	15	1008.7

Table 9 cont'd.
1983

Date	Time	Station No. Name	Location		Wind		Pressure (mb)
			Lat.	Long.	Dir. (°T)	Spd. (kts)	
Feb.	20 1543	96 N-4	15°11.0'S	75°40.0'W	160	16	1008.6
	20 1707	97 N-5	15°15.0'S	75°39.9'	150	17	1007.9
	20 1911	98 N-6	15°20.0'S	75°45.0'	150	16	1006.9
	20 2122	99 N-7	15°25.0'S	75°50.0'	150	14	1006.5
	20 2333	100 N-8	15°30.0'S	75°55.0'	150	15	1007.0
Feb.	21 0202	101 N-10	15°40.0'S	76°05.0'	150	17	1007.4
	21 0413	102 N-11	15°50.1'S	76°15.0'	150	20	1008.3
	21 0630	103 N-12	15°59.9'S	76°24.9'	150	15	1008.0
	21 2138	104 PA-1	16°15.0'S	73°42.5'	AIRS	--	1006.0
	21 2231	105 PA-2	16°19.1'S	73°45.2'	AIRS	--	1006.2
	21 2352	106 PA-3	16°22.9'S	73°47.4'	160	10	1007.5
Feb.	22 0109	107 PA-4	16°27.0'S	73°50.0'	160	11	1008.1
	22 0233	108 PA-5	16°31.0'S	73°52.5'	140	11	1008.1
	22 0418	109 PA-7	16°40.0'S	73°57.5'	150	15	1008.0
	22 0623	110 PA-8	16°49.9'S	74°04.0'	140	14	1007.5
	22 0840	111 PA-9	16°59.9'S	74°10.0'	150	15	1006.5

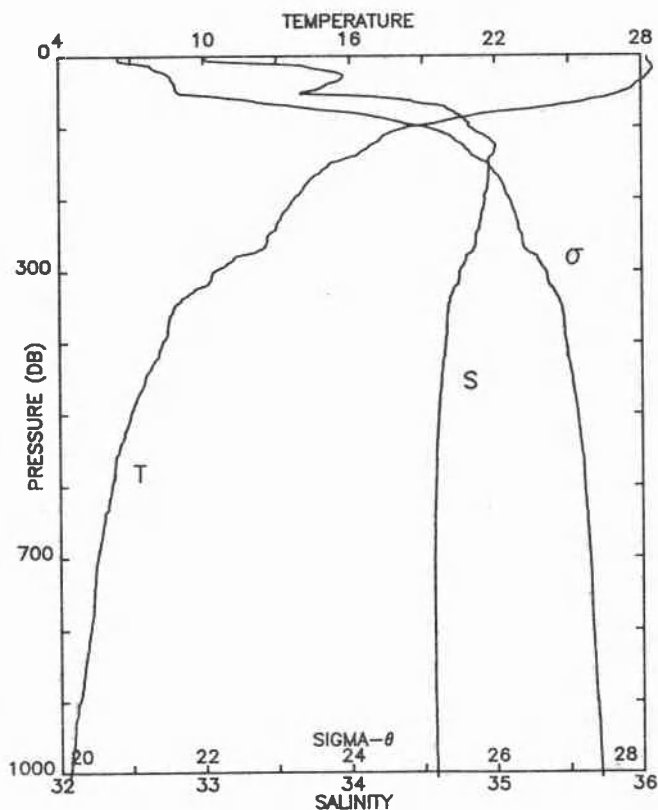


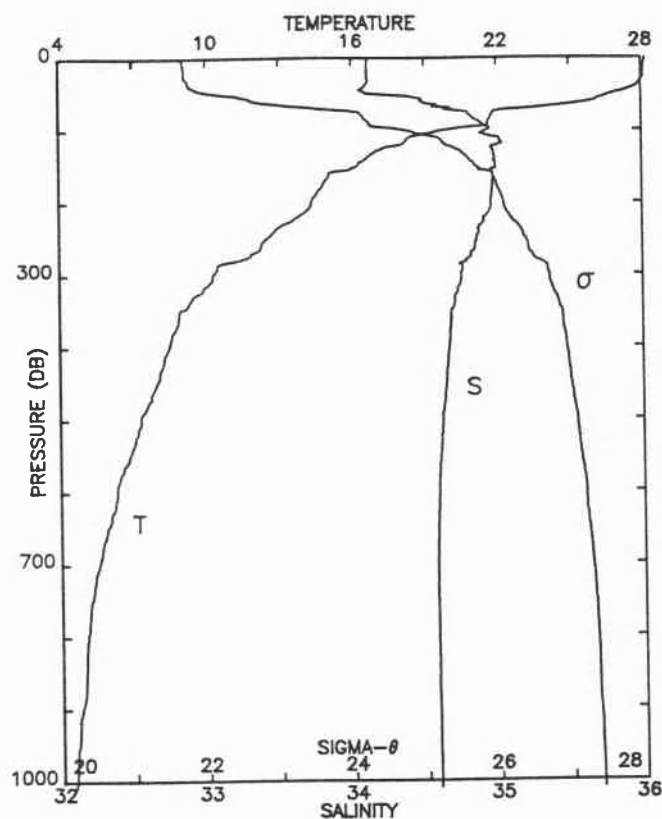
STA NO 1 TEST LAT: 4 44.6 N LONG: 82 55.0 W
02 FEB 1983 1801 GMT PROBE 2561 DEPTH 3878M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.943	32.274	28.942	20.040	769.3	0.023
10	28.325	32.721	28.323	20.579	717.8	0.075
20	28.062	33.178	28.058	21.009	677.1	0.144
30	27.960	33.402	27.953	21.211	658.2	0.211
40	27.247	33.294	27.237	21.360	644.3	0.276
50	26.552	33.182	26.540	21.496	631.6	0.340
60	26.396	33.464	26.382	21.758	607.0	0.402
70	24.721	34.045	24.706	22.710	516.3	0.460
80	22.300	34.625	22.284	23.854	407.3	0.506
90	20.228	34.785	20.212	24.543	341.8	0.543
100	18.692	34.901	18.674	25.029	295.7	0.575
110	17.679	35.001	17.660	25.357	264.8	0.603
120	17.168	34.995	17.148	25.476	253.7	0.629
130	16.888	34.989	16.867	25.538	248.1	0.654
140	16.616	34.997	16.594	25.609	241.7	0.678
150	15.922	34.930	15.898	25.718	231.5	0.702
175	14.705	34.935	14.678	25.992	205.9	0.757
200	13.986	34.923	13.957	26.137	192.7	0.806
225	13.586	34.905	13.554	26.207	186.7	0.854
250	12.850	34.855	12.816	26.318	176.5	0.899
300	11.875	34.797	11.837	26.463	163.6	0.985
400	9.600	34.690	9.555	26.786	134.0	1.133
500	8.028	34.642	7.976	26.997	114.5	1.257
600	6.810	34.598	6.753	27.136	101.6	1.365
800	5.188	34.578	5.121	27.327	83.9	1.549
1000	4.333	34.586	4.255	27.430	74.6	1.707
1005	4.326	34.586	4.248	27.431	74.5	1.711

STA NO 2 A-1 LAT: 3 0.0 N LONG: 85 0.0 W
03 FEB 1983 1231 GMT PROBE 2561 DEPTH 2968M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.236	33.011	28.235	20.826	693.9	0.021
10	28.318	33.349	28.316	21.053	672.4	0.069
20	28.458	33.825	28.453	21.365	642.9	0.134
30	28.197	33.952	28.190	21.547	626.0	0.198
40	27.767	33.844	27.758	21.607	620.7	0.260
50	27.327	33.705	27.316	21.644	617.6	0.322
60	26.309	34.301	26.296	22.416	544.1	0.380
70	24.562	34.627	24.547	23.197	469.7	0.431
80	21.826	34.723	21.811	24.061	387.5	0.474
90	20.089	34.793	20.072	24.586	337.7	0.510
100	18.355	34.826	18.338	25.057	293.1	0.542
110	17.478	34.911	17.459	25.337	266.6	0.570
120	17.123	34.979	17.103	25.474	253.9	0.596
130	16.670	35.000	16.649	25.598	242.4	0.621
140	16.161	34.977	16.138	25.699	233.0	0.644
150	15.213	34.954	15.190	25.895	214.5	0.667
175	14.321	34.951	14.295	26.087	196.8	0.718
200	13.711	34.928	13.683	26.199	186.8	0.766
225	13.166	34.901	13.135	26.290	178.7	0.812
250	12.636	34.864	12.603	26.367	171.8	0.856
300	10.431	34.752	10.395	26.690	141.3	0.935
400	8.274	34.652	8.233	26.966	115.8	1.061
500	6.959	34.602	6.912	27.118	101.9	1.169
600	6.150	34.581	6.096	27.209	93.8	1.267
800	5.241	34.570	5.174	27.314	85.1	1.444
1000	4.366	34.579	4.287	27.421	75.4	1.604
1007	4.344	34.580	4.265	27.424	75.2	1.609





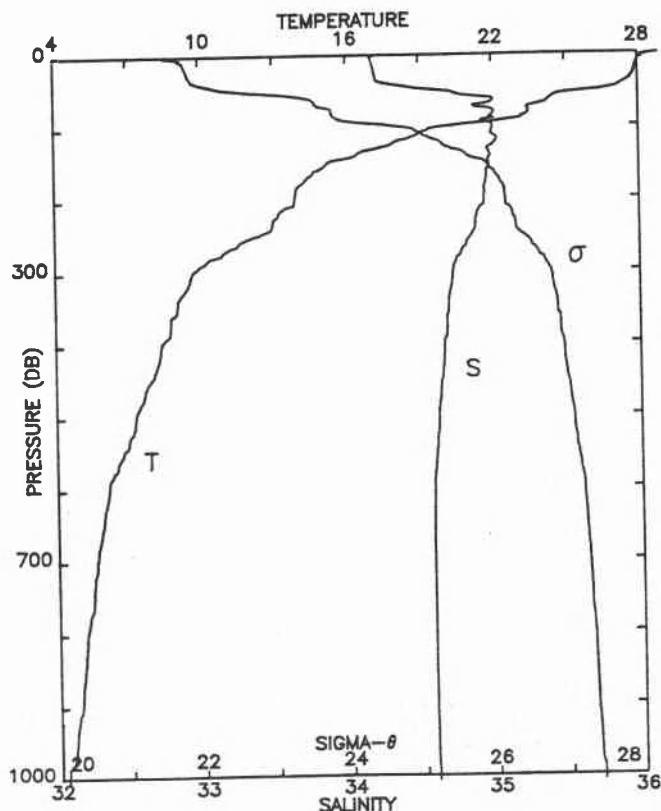
STATION 3 A-2

STA NO 3 A-2 LAT: 2 30.1 N LONG: 84 59.9 W
03 FEB 1983 1621 GMT PROBE 2561 DEPTH 3074M

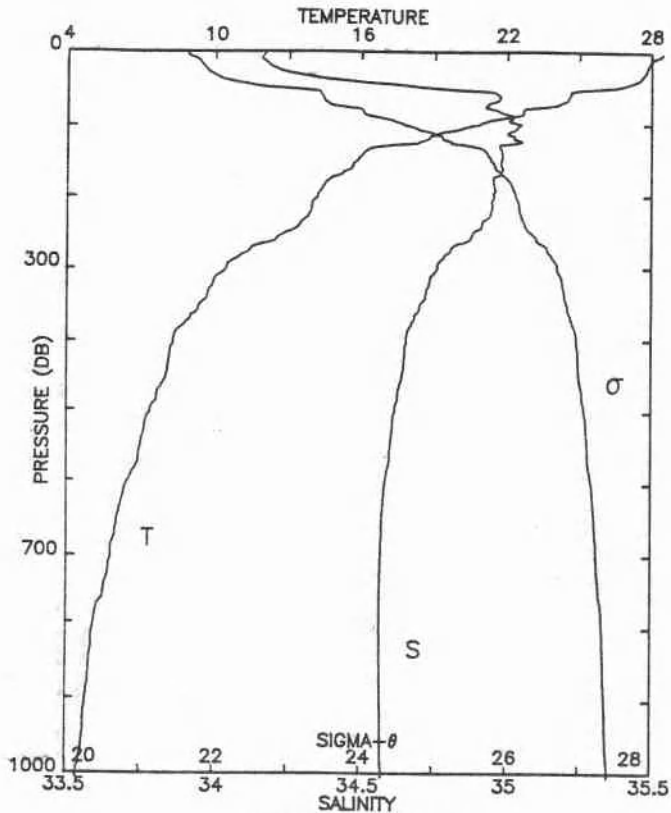
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.177	34.108	28.177	21.669	612.9	0.006
10	28.102	34.108	28.099	21.694	610.9	0.061
20	28.077	34.108	28.072	21.703	610.6	0.122
30	28.002	34.111	27.995	21.730	608.4	0.183
40	27.765	34.089	27.756	21.791	603.0	0.244
50	26.821	34.171	26.809	22.156	568.5	0.303
60	26.002	34.480	25.989	22.647	522.0	0.357
70	23.679	34.658	23.665	23.482	442.5	0.406
80	21.773	34.816	21.757	24.147	379.3	0.445
90	21.627	34.888	21.609	24.243	370.6	0.483
100	19.893	34.940	19.875	24.750	322.4	0.518
110	18.397	34.982	18.378	25.166	283.1	0.549
120	18.025	35.022	18.004	25.289	271.7	0.576
130	16.970	34.974	16.949	25.507	251.1	0.602
140	16.563	34.984	16.540	25.611	241.5	0.627
150	16.188	34.989	16.164	25.703	233.0	0.651
175	14.810	34.967	14.783	25.994	205.8	0.704
200	14.318	34.954	14.289	26.091	197.2	0.755
225	13.555	34.901	13.524	26.210	186.4	0.803
250	12.477	34.855	12.444	26.391	169.5	0.847
300	10.268	34.748	10.232	26.716	138.8	0.925
400	8.446	34.660	8.404	26.946	117.8	1.051
500	7.262	34.612	7.213	27.084	105.5	1.163
600	6.266	34.582	6.212	27.195	95.3	1.264
800	5.021	34.569	4.956	27.339	82.4	1.440
1000	4.510	34.576	4.431	27.403	77.5	1.600
1009	4.467	34.577	4.387	27.408	77.0	1.607

STA NO 4 A-3 LAT: 2 0.0 N LONG: 85 0.0 W
03 FEB 1983 2013 GMT PROBE 2561 DEPTH 2827M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.816	34.190	28.816	21.519	627.3	0.006
10	27.984	34.181	27.982	21.787	602.0	0.061
20	27.878	34.194	27.874	21.832	598.2	0.121
30	27.781	34.203	27.774	21.871	594.9	0.181
40	27.476	34.282	27.467	22.030	580.1	0.240
50	26.619	34.654	26.607	22.584	527.6	0.296
60	24.489	34.955	24.477	23.467	443.6	0.344
70	23.927	34.911	23.912	23.601	431.2	0.387
80	23.512	35.014	23.496	23.802	412.4	0.429
90	22.973	34.974	22.955	23.928	400.7	0.470
100	20.084	35.002	20.066	24.747	322.8	0.506
110	18.951	34.992	18.932	25.034	295.7	0.537
120	18.095	35.025	18.074	25.274	273.1	0.565
130	17.259	34.967	17.237	25.433	258.2	0.592
140	16.370	34.985	16.347	25.657	237.1	0.616
150	15.226	34.970	15.203	25.905	213.6	0.639
175	14.264	34.952	14.238	26.101	195.5	0.690
200	13.854	34.938	13.826	26.176	188.9	0.738
225	13.136	34.884	13.105	26.283	179.3	0.784
250	12.352	34.850	12.318	26.412	167.4	0.827
300	9.684	34.719	9.649	26.792	131.2	0.901
400	8.360	34.656	8.319	26.956	116.8	1.025
500	7.270	34.613	7.221	27.083	105.5	1.137
600	6.117	34.577	6.064	27.210	93.7	1.237
800	5.129	34.569	5.063	27.326	83.7	1.415
1000	4.297	34.580	4.219	27.429	74.5	1.576
1007	4.286	34.581	4.208	27.431	74.4	1.581



STATION 4 A-3

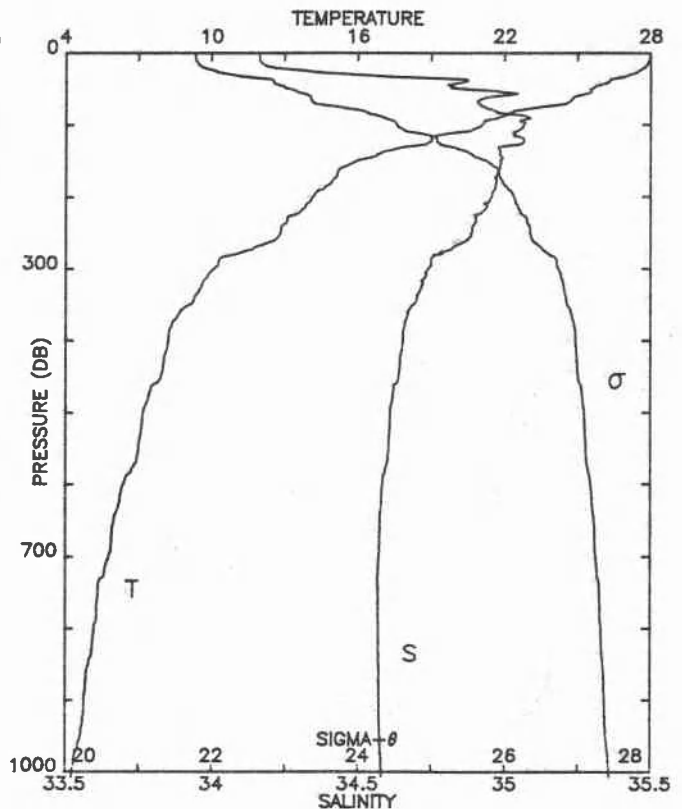


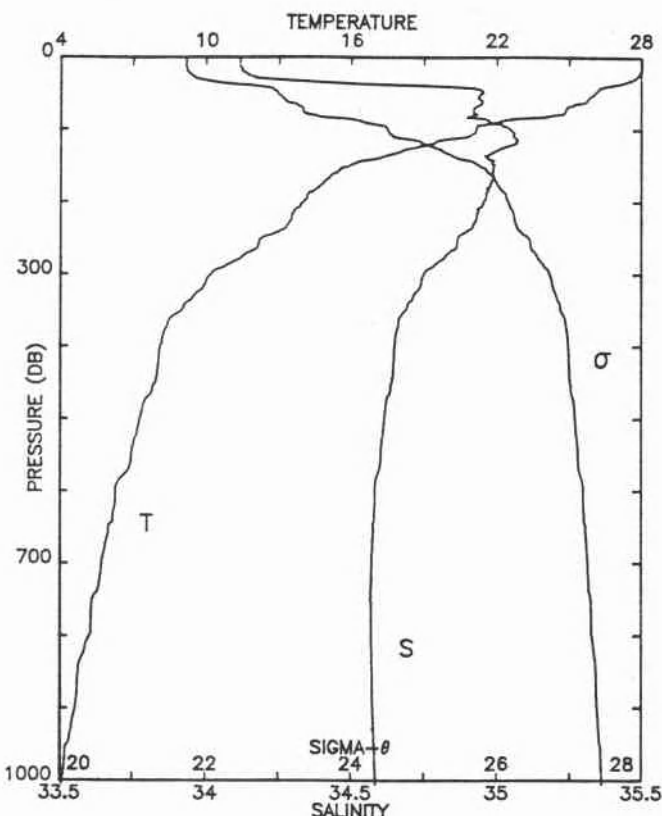
STA NO 5 A-4 LAT: 1 30.1 N LONG: 85 0.0 W
04 FEB 1983 0014 GMT PROBE 2561 DEPTH 2880M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.458	34.168	28.457	21.621	617.6	0.019
10	28.049	34.157	28.047	21.748	605.8	0.061
20	27.840	34.188	27.836	21.840	597.4	0.122
30	27.691	34.258	27.684	21.942	588.1	0.181
40	27.371	34.424	27.362	22.170	566.7	0.239
50	26.146	34.738	26.135	22.796	507.3	0.293
60	24.606	34.971	24.593	23.444	445.8	0.339
70	24.312	34.948	24.297	23.516	439.4	0.384
80	22.689	34.957	22.673	23.997	393.8	0.426
90	22.188	35.021	22.170	24.187	375.9	0.465
100	20.886	35.041	20.867	24.562	340.5	0.500
110	19.626	35.016	19.606	24.878	310.7	0.533
120	18.758	35.024	18.737	25.107	289.1	0.563
130	17.119	34.973	17.097	25.471	254.5	0.590
140	16.093	34.981	16.071	25.718	231.2	0.614
150	15.847	34.980	15.824	25.773	226.2	0.637
175	14.761	34.950	14.735	25.992	206.0	0.691
200	14.188	34.954	14.159	26.118	194.6	0.741
225	13.836	34.942	13.803	26.184	189.0	0.789
250	13.000	34.885	12.965	26.311	177.3	0.835
300	10.463	34.760	10.427	26.691	141.3	0.913
400	8.301	34.654	8.259	26.964	116.0	1.042
500	7.371	34.617	7.322	27.072	106.7	1.154
600	6.413	34.585	6.358	27.178	97.1	1.256
800	5.082	34.569	5.016	27.332	83.2	1.437
1000	4.435	34.578	4.356	27.413	76.4	1.598
1005	4.432	34.578	4.352	27.413	76.4	1.602

STA NO 6 A-5 LAT: 1 0.0 N LONG: 85 0.1 W
04 FEB 1983 0409 GMT PROBE 2561 DEPTH 3037M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.968	34.163	27.967	21.778	602.5	0.006
10	27.945	34.164	27.943	21.787	602.0	0.060
20	27.745	34.208	27.740	21.886	593.1	0.120
30	27.213	34.476	27.206	22.259	557.8	0.178
40	26.272	34.868	26.263	22.854	501.3	0.230
50	25.567	34.849	25.556	23.059	482.2	0.280
60	25.015	34.991	25.002	23.336	456.1	0.327
70	24.580	34.910	24.565	23.407	449.8	0.372
80	22.584	34.961	22.568	24.029	390.7	0.414
90	21.755	35.083	21.737	24.356	359.9	0.452
100	21.065	35.065	21.046	24.533	343.3	0.486
110	20.314	35.034	20.294	24.711	326.7	0.520
120	19.002	35.064	18.981	25.076	292.1	0.551
130	18.129	34.995	18.106	25.243	276.5	0.579
140	16.880	34.982	16.857	25.536	248.7	0.605
150	15.961	34.985	15.937	25.751	228.4	0.629
175	15.001	34.969	14.974	25.955	209.6	0.683
200	14.150	34.953	14.121	26.126	193.9	0.734
225	13.363	34.898	13.331	26.248	182.8	0.781
250	12.817	34.885	12.783	26.348	173.7	0.825
300	10.087	34.740	10.052	26.740	136.3	0.902
400	8.227	34.653	8.186	26.974	115.0	1.026
500	7.192	34.611	7.144	27.092	104.6	1.137
600	6.383	34.584	6.328	27.182	96.7	1.239
800	5.183	34.571	5.116	27.321	84.3	1.419
1000	4.270	34.581	4.192	27.433	74.1	1.579
1007	4.259	34.582	4.181	27.435	74.0	1.584





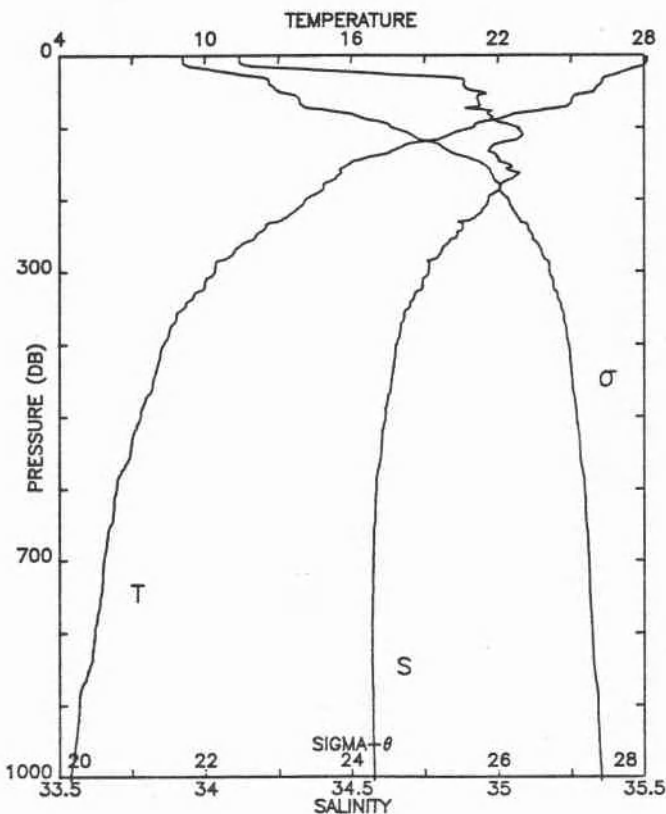
STATION 7 A-6

STA NO 7 A-6 LAT: 0 30.0 N LONG: 85 0.1 W
04 FEB 1983 0747 GMT PROBE 2561 DEPTH 3178M

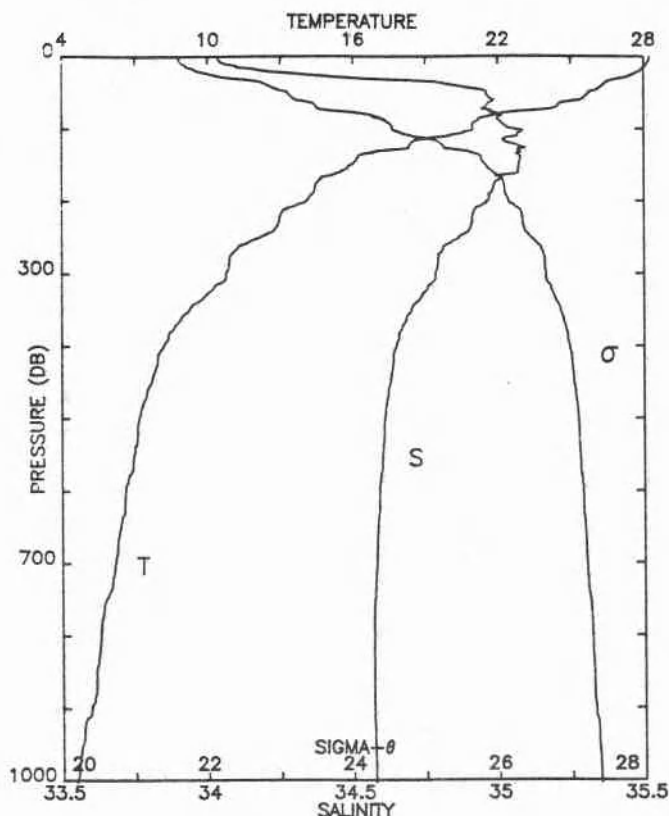
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.028	34.116	28.028	21.723	607.7	0.006
10	28.036	34.115	28.033	21.721	608.4	0.061
20	27.984	34.128	27.979	21.748	606.2	0.122
30	27.709	34.199	27.702	21.891	593.0	0.182
40	26.578	34.783	26.569	22.693	516.7	0.238
50	26.053	34.949	26.042	22.984	489.4	0.288
60	25.717	34.948	25.703	23.088	479.8	0.336
70	24.881	34.922	24.866	23.325	457.6	0.383
80	24.461	34.925	24.444	23.454	445.7	0.428
90	22.038	34.976	22.020	24.196	375.2	0.469
100	21.122	35.046	21.103	24.502	346.2	0.505
110	20.764	35.058	20.743	24.609	336.4	0.539
120	19.257	35.063	19.236	25.010	298.4	0.570
130	18.028	34.995	18.005	25.268	274.0	0.599
140	17.022	34.969	16.999	25.492	252.9	0.625
150	15.928	34.990	15.904	25.762	227.3	0.649
175	14.815	34.977	14.788	26.002	205.1	0.702
200	14.009	34.953	13.980	26.156	191.0	0.751
225	13.503	34.927	13.471	26.241	183.4	0.798
250	12.276	34.864	12.243	26.438	165.0	0.842
300	10.202	34.748	10.166	26.727	137.7	0.919
400	8.127	34.648	8.086	26.985	113.9	1.043
500	7.297	34.614	7.248	27.080	105.8	1.154
600	6.284	34.582	6.230	27.193	95.5	1.255
800	5.224	34.570	5.157	27.316	84.9	1.436
1000	4.110	34.586	4.033	27.453	71.8	1.590
1005	4.072	34.586	3.995	27.458	71.4	1.594

STA NO 8 A-7 LAT: 0 0.4 N LONG: 85 0.0 W
04 FEB 1983 1121 GMT PROBE 2561 DEPTH 3360M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.125	34.117	28.125	21.692	610.8	0.018
10	28.111	34.119	28.109	21.699	610.5	0.061
20	27.429	34.361	27.424	22.103	572.2	0.121
30	26.509	34.797	26.502	22.724	513.2	0.175
40	26.219	34.883	26.210	22.881	498.7	0.225
50	25.928	34.930	25.916	23.009	487.0	0.275
60	25.035	34.928	25.022	23.282	461.3	0.322
70	24.866	34.938	24.851	23.341	456.1	0.368
80	22.958	34.965	22.942	23.925	400.6	0.411
90	21.692	34.992	21.674	24.304	364.8	0.449
100	20.948	35.069	20.929	24.567	340.1	0.484
110	20.037	35.084	20.017	24.823	316.0	0.517
120	18.816	35.025	18.795	25.093	290.4	0.547
130	17.857	34.970	17.835	25.291	271.8	0.575
140	16.898	34.996	16.875	25.541	248.2	0.601
150	15.954	35.029	15.930	25.787	225.0	0.625
175	15.122	35.023	15.095	25.970	208.2	0.679
200	14.109	34.966	14.080	26.144	192.1	0.729
225	13.296	34.919	13.264	26.278	179.9	0.776
250	12.072	34.859	12.039	26.473	161.6	0.818
300	10.400	34.763	10.364	26.705	139.9	0.892
400	8.277	34.653	8.236	26.966	115.7	1.018
500	7.335	34.616	7.286	27.077	106.2	1.129
600	6.352	34.584	6.297	27.186	96.3	1.231
800	5.450	34.569	5.382	27.289	87.9	1.414
1000	4.455	34.577	4.376	27.410	76.8	1.578
1005	4.448	34.577	4.369	27.411	76.7	1.582



STATION 8 A-7



STATION 9 A-8

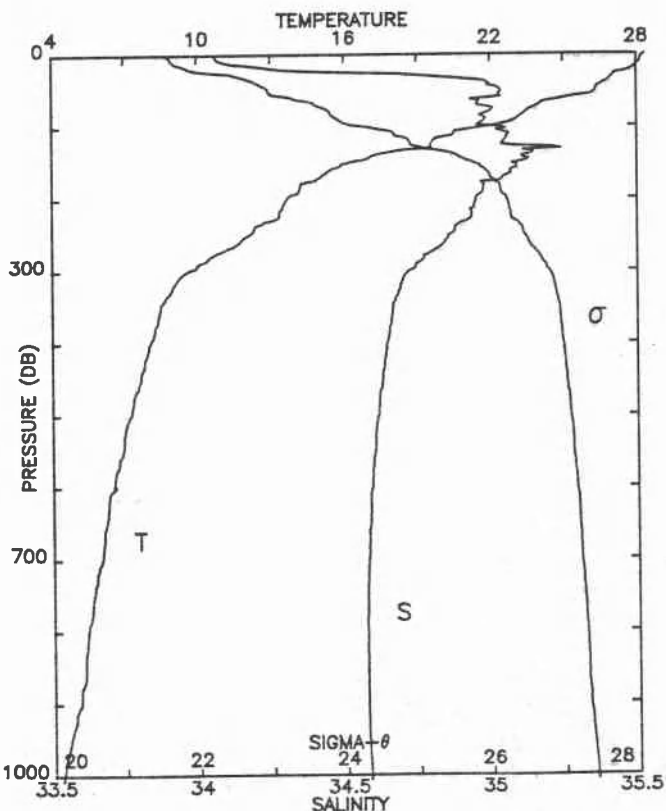
STA NO 9 A-8 LAT: 0 30.0 S LONG: 85 0.1 W
04 FEB 1983 1500 GMT PROBE 2561 DEPTH 2392M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.233	34.035	28.233	21.595	620.0	0.006
10	28.142	34.060	28.140	21.645	615.6	0.062
20	27.836	34.194	27.831	21.846	596.9	0.123
30	27.136	34.488	27.129	22.293	554.5	0.180
40	26.290	34.847	26.281	22.832	503.5	0.232
50	25.712	34.961	25.701	23.098	478.4	0.282
60	25.398	34.980	25.384	23.211	468.1	0.329
70	24.403	34.959	24.388	23.496	441.2	0.374
80	22.104	35.002	22.088	24.196	374.7	0.416
90	21.122	35.006	21.105	24.471	348.8	0.452
100	20.954	35.046	20.935	24.548	341.9	0.486
110	19.989	35.067	19.969	24.822	316.0	0.519
120	18.403	35.039	18.382	25.208	279.5	0.548
130	17.309	35.069	17.287	25.499	251.9	0.576
140	16.187	35.078	16.165	25.771	226.2	0.599
150	15.906	35.072	15.882	25.831	220.8	0.622
175	14.485	34.989	14.459	26.082	197.4	0.674
200	14.076	34.963	14.047	26.150	191.6	0.722
225	12.954	34.910	12.923	26.339	173.9	0.767
250	12.197	34.864	12.164	26.453	163.5	0.810
300	10.770	34.785	10.733	26.656	144.7	0.885
400	8.161	34.649	8.120	26.981	114.3	1.013
500	7.154	34.609	7.106	27.096	104.1	1.122
600	6.590	34.591	6.534	27.160	99.1	1.224
800	5.545	34.570	5.476	27.278	89.1	1.413
1000	4.560	34.575	4.480	27.397	78.2	1.582
1003	4.545	34.575	4.465	27.399	78.0	1.584

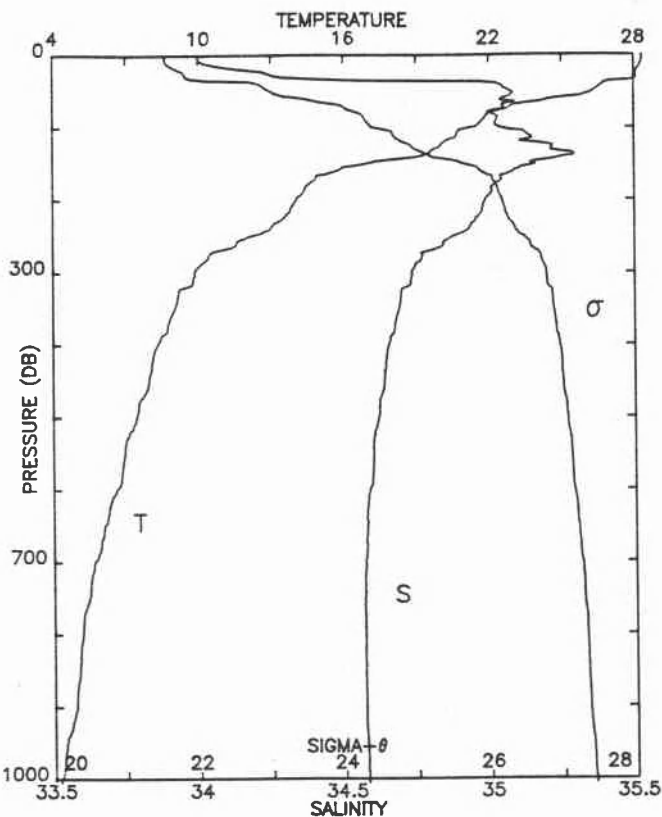
LIN INT SAL 551-5550B

STA NO 10 A-9 LAT: 1 1.8 S LONG: 85 0.8 W
04 FEB 1983 1931 GMT PROBE 2561 DEPTH 2188M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELO
1	28.338	34.061	28.338	21.581	621.4	0.006
10	28.137	34.089	28.135	21.668	613.4	0.062
20	27.840	34.261	27.835	21.895	592.1	0.122
30	27.025	34.777	27.018	22.546	530.3	0.178
40	26.678	34.993	26.669	22.820	504.6	0.230
50	26.315	35.035	26.304	22.966	491.0	0.279
60	25.324	35.016	25.311	23.260	463.4	0.328
70	24.031	34.955	24.016	23.604	430.9	0.372
80	23.473	34.998	23.457	23.801	412.5	0.414
90	23.067	34.983	23.048	23.908	402.7	0.455
100	21.969	34.995	21.950	24.229	372.4	0.494
110	20.499	35.061	20.478	24.682	329.4	0.529
120	19.665	35.047	19.643	24.893	309.7	0.561
130	19.473	35.228	19.449	25.081	292.1	0.591
140	17.256	35.116	17.233	25.549	247.6	0.618
150	16.251	35.090	16.227	25.765	227.1	0.642
175	14.811	35.029	14.785	26.042	201.2	0.695
200	13.651	34.949	13.623	26.227	184.0	0.742
225	13.327	34.934	13.295	26.282	179.4	0.788
250	12.110	34.859	12.077	26.465	162.2	0.830
300	9.634	34.722	9.600	26.803	130.1	0.903
400	8.057	34.644	8.016	26.992	113.1	1.022
500	7.241	34.612	7.192	27.087	105.1	1.131
600	6.536	34.590	6.481	27.166	98.4	1.232
800	5.394	34.569	5.326	27.295	87.2	1.417
1000	4.343	34.579	4.264	27.423	75.2	1.582
1007	4.312	34.578	4.233	27.426	74.9	1.587



STATION 10 A-9



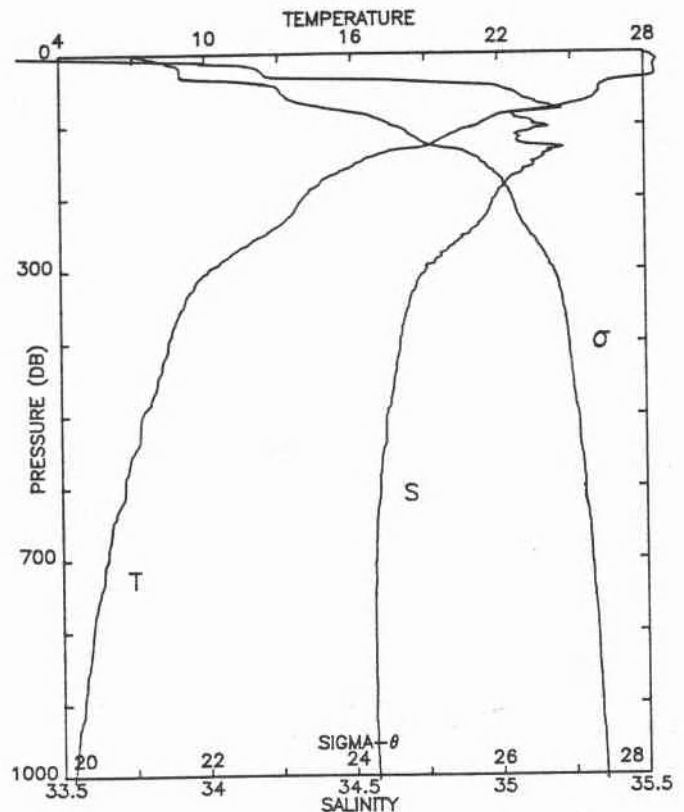
STATION 11 A-10

STA NO 11 A-10 LAT: 1 29.9 S LONG: 85 0.0 W
04 FEB 1983 2247 GMT PROBE 2561 DEPTH 2206M

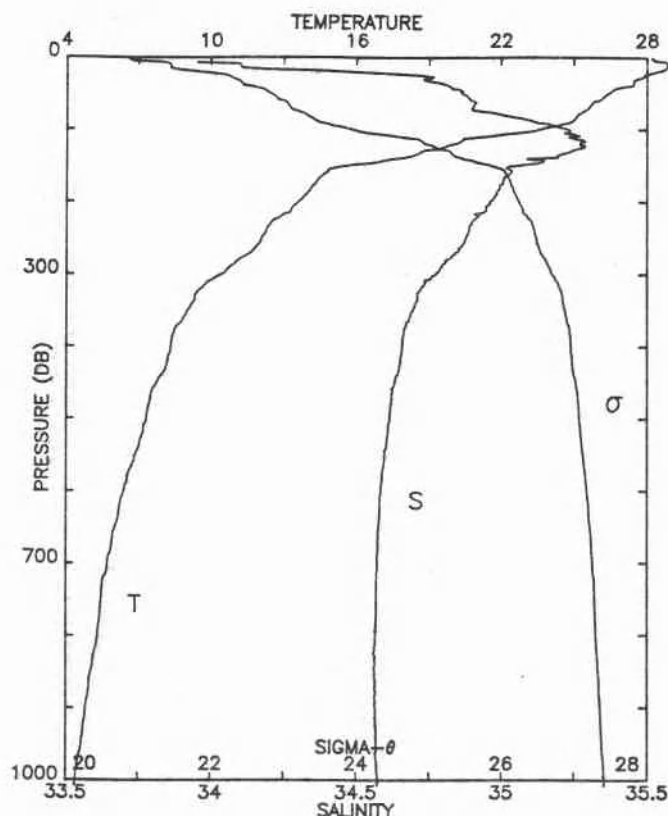
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.339	33.997	28.339	21.532	626.0	0.006
10	28.312	34.013	28.310	21.554	624.4	0.063
20	28.143	34.151	28.139	21.713	609.6	0.124
30	28.082	34.276	28.075	21.828	599.1	0.185
40	26.734	35.030	26.725	22.830	503.6	0.240
50	26.306	35.072	26.295	22.998	488.0	0.290
60	24.890	35.048	24.877	23.416	448.4	0.337
70	22.981	35.045	22.967	23.979	395.0	0.380
80	22.046	35.003	22.030	24.213	373.1	0.418
90	21.756	35.025	21.738	24.312	364.1	0.455
100	21.340	35.040	21.321	24.438	352.4	0.491
110	20.664	35.132	20.643	24.692	328.5	0.524
120	20.163	35.130	20.141	24.825	316.2	0.557
130	19.756	35.214	19.732	24.996	300.2	0.588
140	19.109	35.269	19.084	25.207	280.5	0.617
150	16.950	35.150	16.926	25.648	238.4	0.642
175	14.714	35.035	14.688	26.068	198.8	0.696
200	14.047	34.986	14.018	26.173	189.3	0.744
225	13.525	34.953	13.494	26.257	181.9	0.790
250	12.182	34.877	12.149	26.466	162.3	0.834
300	9.824	34.734	9.789	26.780	132.4	0.906
400	8.291	34.654	8.249	26.965	115.9	1.030
500	7.424	34.619	7.375	27.066	107.3	1.141
600	6.590	34.587	6.534	27.157	99.3	1.244
800	5.161	34.568	5.094	27.322	84.2	1.425
1000	4.255	34.577	4.178	27.431	74.2	1.586
1005	4.225	34.578	4.147	27.435	73.9	1.590

STA NO 12 A-11 LAT: 2 0.0 S LONG: 85 0.0 W
05 FEB 1983 0224 GMT PROBE 2561 DEPTH 2622M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.914	33.133	27.914	21.022	675.0	0.007
10	28.483	33.902	28.480	21.414	637.8	0.066
20	28.390	34.175	28.385	21.650	615.6	0.128
30	28.439	34.205	28.432	21.657	615.4	0.190
40	26.664	34.747	26.655	22.639	521.9	0.248
50	26.129	35.022	26.118	23.015	486.4	0.298
60	25.983	35.076	25.969	23.102	478.5	0.346
70	25.269	35.134	25.254	23.367	453.7	0.393
80	23.561	35.185	23.545	23.917	401.5	0.436
90	21.751	35.064	21.734	24.342	361.1	0.473
100	21.177	35.141	21.158	24.559	340.8	0.508
110	20.268	35.089	20.248	24.765	321.5	0.541
120	19.608	35.064	19.586	24.920	307.0	0.573
130	18.903	35.201	18.880	25.207	280.1	0.602
140	17.130	35.158	17.107	25.611	241.7	0.628
150	16.403	35.125	16.379	25.757	227.9	0.651
175	14.761	35.034	14.735	26.057	199.8	0.704
200	13.983	34.988	13.954	26.188	187.9	0.753
225	13.452	34.955	13.420	26.274	180.3	0.799
250	12.473	34.898	12.440	26.426	166.2	0.842
300	10.083	34.750	10.048	26.749	135.5	0.917
400	8.397	34.661	8.355	26.954	117.0	1.042
500	7.297	34.613	7.248	27.079	105.9	1.154
600	6.573	34.589	6.518	27.161	98.9	1.257
800	5.212	34.567	5.145	27.315	85.0	1.440
1000	4.400	34.574	4.322	27.414	76.3	1.601
1007	4.390	34.576	4.311	27.416	76.1	1.607



STATION 12 A-11



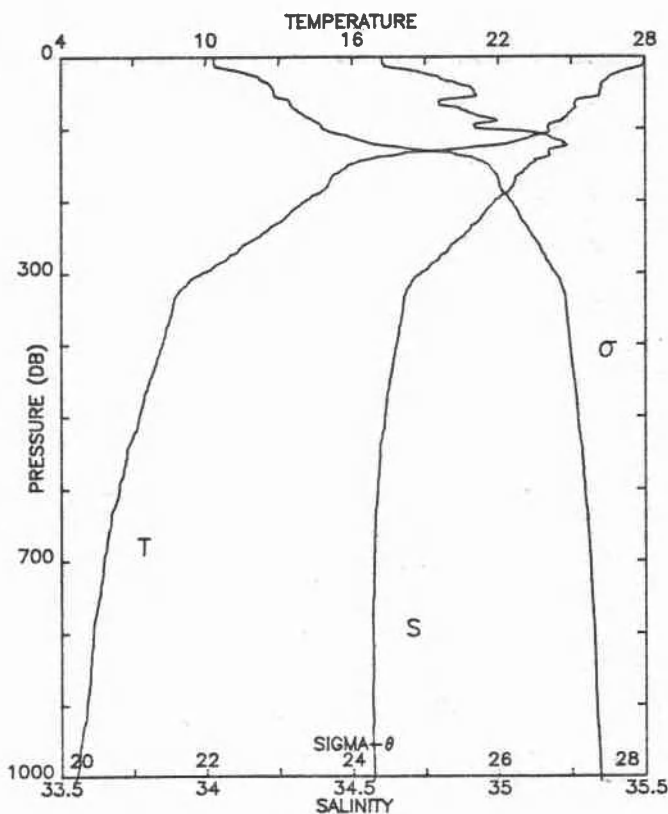
STA NO 13 A-12 LAT: 2 30.0 S LONG: 85 0.0 W
05 FEB 1983 0624 GMT PROBE 2561 DEPTH 3073M

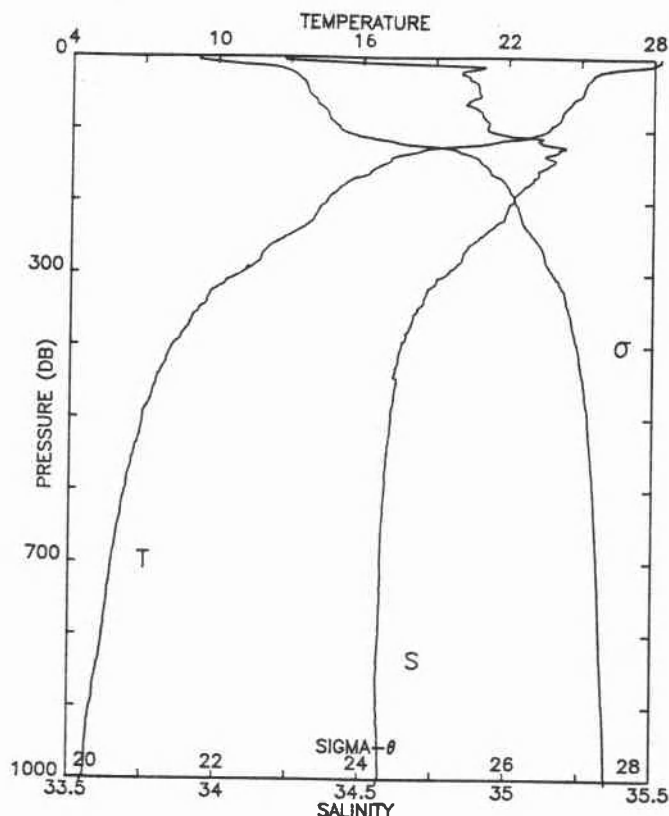
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.220	33.056	28.220	20.865	690.0	0.007
10	28.853	34.103	28.850	21.443	635.0	0.067
20	28.484	34.447	28.480	21.824	599.0	0.129
30	27.645	34.745	27.638	22.323	551.7	0.186
40	27.224	34.820	27.215	22.515	533.7	0.241
50	26.406	34.865	26.395	22.810	506.0	0.292
60	25.991	34.901	25.978	22.967	491.4	0.342
70	25.600	34.899	25.585	23.088	480.3	0.391
80	25.170	35.007	25.152	23.302	460.3	0.438
90	24.859	35.119	24.839	23.482	443.6	0.483
100	23.619	35.231	23.598	23.936	400.5	0.525
110	21.365	35.252	21.344	24.593	338.1	0.563
120	20.017	35.271	19.995	24.971	302.3	0.594
130	18.735	35.242	18.712	25.281	273.0	0.623
140	17.700	35.141	17.676	25.460	256.1	0.650
150	15.706	35.059	15.683	25.866	217.4	0.673
175	14.291	35.004	14.265	26.135	192.3	0.723
200	13.611	34.960	13.582	26.244	182.5	0.770
225	12.615	34.904	12.584	26.402	167.8	0.814
250	12.089	34.876	12.057	26.482	160.6	0.855
300	10.488	34.772	10.452	26.696	140.8	0.931
400	8.343	34.657	8.301	26.959	116.5	1.056
500	7.346	34.615	7.298	27.074	106.4	1.167
600	6.414	34.585	6.359	27.178	97.1	1.269
800	5.318	34.567	5.251	27.303	86.4	1.450
1000	4.387	34.574	4.308	27.415	76.1	1.612
1007	4.373	34.574	4.293	27.416	76.0	1.617

STA NO 14 A-13 LAT: 2 59.9 S LONG: 84 59.7 W
05 FEB 1983 0942 GMT PROBE 2561 DEPTH 3243M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.948	34.602	27.948	22.114	570.3	0.006
10	27.944	34.606	27.942	22.120	570.2	0.057
20	27.123	34.720	27.119	22.471	537.0	0.113
30	26.483	34.803	26.476	22.737	512.0	0.165
40	26.198	34.886	26.189	22.890	497.8	0.215
50	26.145	34.919	26.133	22.932	494.3	0.265
60	25.269	34.813	25.256	23.123	476.4	0.314
70	25.161	34.852	25.146	23.187	470.8	0.361
80	24.863	34.918	24.846	23.328	457.8	0.408
90	24.468	34.987	24.449	23.499	441.8	0.453
100	24.017	34.943	23.996	23.601	432.5	0.496
110	23.453	35.170	23.431	23.939	400.7	0.538
120	22.502	35.224	22.478	24.255	370.9	0.577
130	19.697	35.173	19.673	24.981	301.7	0.611
140	16.952	35.159	16.929	25.654	237.5	0.637
150	15.874	35.106	15.850	25.864	217.6	0.660
175	15.048	35.054	15.021	26.010	204.4	0.712
200	14.081	34.988	14.052	26.167	189.9	0.762
225	13.201	34.938	13.169	26.311	176.6	0.807
250	12.139	34.876	12.106	26.473	161.5	0.849
300	9.845	34.734	9.810	26.777	132.7	0.923
400	8.197	34.650	8.156	26.976	114.7	1.043
500	7.233	34.610	7.185	27.086	105.2	1.152
600	6.405	34.585	6.350	27.179	97.0	1.253
800	5.309	34.568	5.241	27.305	86.1	1.435
1000	4.621	34.571	4.541	27.387	79.3	1.602
1007	4.559	34.569	4.479	27.393	78.7	1.608

LIN INT SAL 129-133DB





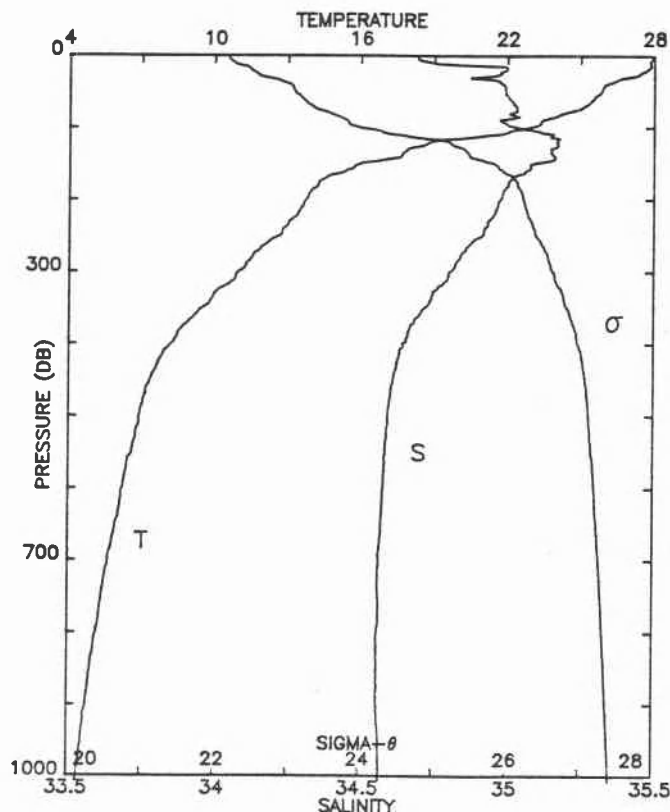
STATION 15 A-14

STA NO 15 A-14 LAT: 3 30.0 S LONG: 85 0.0 W
05 FEB 1983 1325 GMT PROBE 2561 DEPTH 3356M

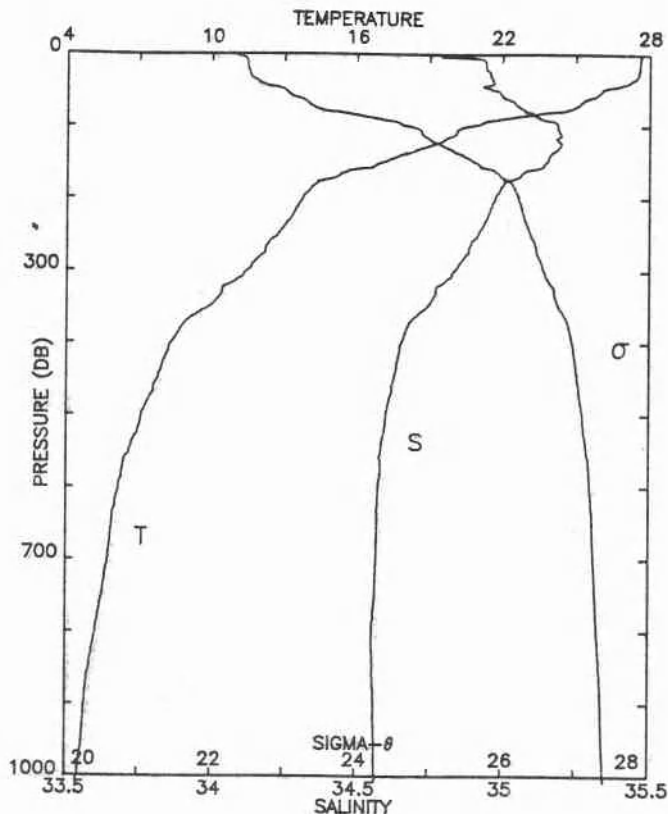
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.266	34.229	28.265	21.731	607.0	0.006
10	27.901	34.709	27.899	22.211	561.4	0.060
20	25.747	34.842	25.742	22.996	486.8	0.111
30	25.367	34.866	25.361	23.132	474.3	0.159
40	25.152	34.897	25.143	23.221	466.2	0.206
50	25.046	34.902	25.035	23.258	463.1	0.252
60	24.631	34.868	24.618	23.358	453.9	0.298
70	24.372	34.890	24.357	23.454	445.3	0.343
80	24.188	34.912	24.171	23.525	438.9	0.387
90	23.991	34.933	23.972	23.601	432.1	0.431
100	23.637	34.931	23.616	23.704	422.7	0.474
110	22.880	35.066	22.857	24.026	392.2	0.515
120	21.024	35.136	21.001	24.599	337.9	0.551
130	18.365	35.172	18.343	25.320	269.2	0.580
140	17.174	35.151	17.151	25.595	243.1	0.606
150	16.701	35.138	16.676	25.698	233.6	0.630
175	15.277	35.073	15.250	25.974	207.9	0.685
200	14.519	35.017	14.489	26.097	196.7	0.736
225	13.974	34.987	13.942	26.190	188.5	0.784
250	12.794	34.902	12.760	26.366	172.0	0.829
300	11.007	34.793	10.970	26.621	148.2	0.909
400	8.205	34.637	8.164	26.964	115.8	1.037
500	6.995	34.603	6.948	27.113	102.4	1.146
600	6.282	34.583	6.228	27.194	95.4	1.245
800	5.389	34.567	5.321	27.295	87.2	1.427
1000	4.589	34.567	4.508	27.387	79.2	1.592
1005	4.548	34.566	4.468	27.391	78.8	1.596

STA NO 16 A-15 LAT: 4 0.0 S LONG: 85 0.0 W
05 FEB 1983 1709 GMT PROBE 2561 DEPTH 3466M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.946	34.693	27.946	22.184	563.6	0.006
10	27.819	34.745	27.817	22.265	556.2	0.056
20	27.680	34.994	27.676	22.498	534.4	0.110
30	26.947	34.906	26.940	22.668	518.7	0.163
40	26.023	34.985	26.014	23.019	485.5	0.213
50	25.814	34.994	25.802	23.092	479.0	0.261
60	25.510	35.006	25.497	23.196	469.5	0.309
70	25.147	35.029	25.131	23.325	457.6	0.355
80	24.318	35.014	24.301	23.564	435.2	0.400
90	23.419	34.976	23.400	23.801	413.0	0.442
100	22.916	35.035	22.896	23.992	395.1	0.483
110	21.461	35.154	21.439	24.492	347.7	0.520
120	18.859	35.169	18.837	25.193	281.0	0.551
130	17.913	35.149	17.891	25.414	260.1	0.578
140	17.642	35.161	17.619	25.490	253.2	0.604
150	16.012	35.087	15.989	25.818	222.1	0.628
175	14.281	35.003	14.256	26.136	192.2	0.679
200	13.754	34.975	13.725	26.226	184.2	0.726
225	13.246	34.945	13.215	26.307	177.0	0.772
250	12.673	34.912	12.640	26.397	169.0	0.815
300	11.000	34.804	10.963	26.630	147.4	0.893
400	8.212	34.646	8.171	26.970	115.3	1.023
500	6.904	34.595	6.857	27.120	101.6	1.129
600	6.231	34.580	6.177	27.198	94.9	1.228
800	5.158	34.561	5.091	27.317	84.7	1.407
1000	4.384	34.570	4.305	27.412	76.4	1.567
1007	4.375	34.571	4.295	27.414	76.3	1.573



STATION 16 A-15



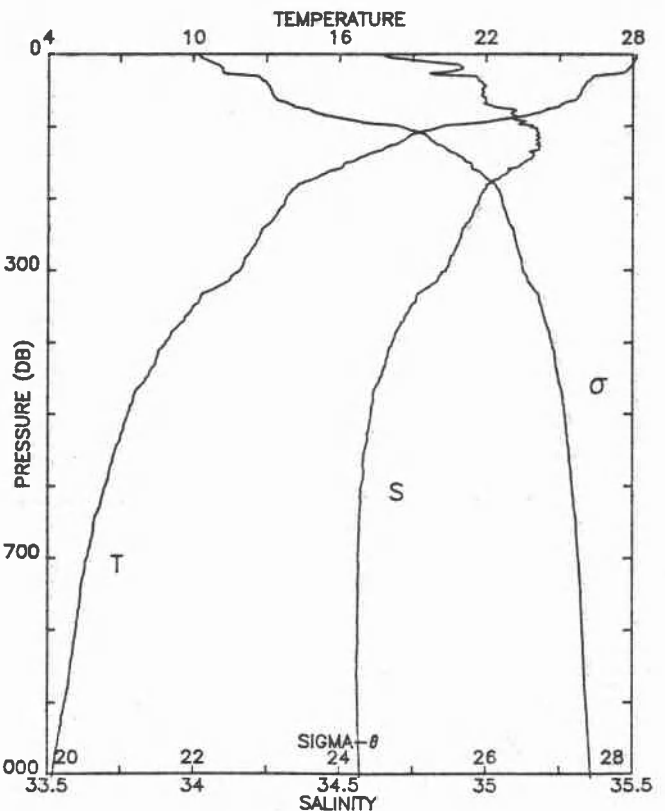
STATION 17 A-16

STA NO 17 A-16 LAT: 4 29.9 S LONG: 85 0.0 W
05 FEB 1983 2044 GMT PROBE 2561 DEPTH 3483M

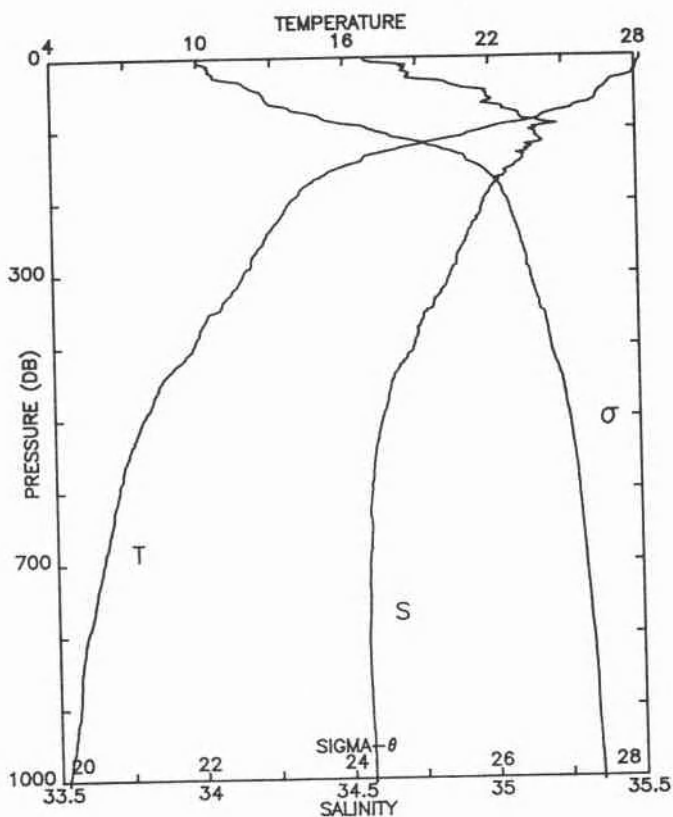
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	27.646	34.791	27.645	22.355	547.3	0.016
10	27.598	34.940	27.595	22.483	535.4	0.054
20	27.574	34.943	27.569	22.494	534.8	0.108
30	27.500	34.958	27.493	22.530	531.9	0.161
40	27.120	34.970	27.111	22.662	519.7	0.214
50	26.063	34.975	26.052	23.001	487.8	0.264
60	25.661	35.004	25.647	23.147	474.2	0.312
70	25.123	35.047	25.108	23.346	455.6	0.359
80	24.129	35.088	24.113	23.676	424.5	0.403
90	21.965	35.137	21.947	24.338	361.6	0.442
100	20.640	35.187	20.621	24.740	323.5	0.476
110	20.089	35.197	20.068	24.895	309.1	0.508
120	19.552	35.191	19.530	25.032	296.4	0.538
130	18.725	35.190	18.702	25.243	276.5	0.567
140	17.797	35.161	17.773	25.452	256.9	0.593
150	17.053	35.147	17.028	25.621	241.0	0.618
175	14.660	35.021	14.634	26.069	198.7	0.673
200	13.766	34.974	13.737	26.223	184.5	0.720
225	13.315	34.948	13.283	26.296	178.1	0.765
250	12.736	34.915	12.702	26.387	170.0	0.809
300	11.473	34.833	11.435	26.567	153.6	0.890
400	8.344	34.654	8.302	26.957	116.7	1.023
500	7.110	34.603	7.062	27.098	103.9	1.133
600	6.180	34.578	6.127	27.203	94.4	1.232
800	5.245	34.558	5.178	27.305	86.0	1.412
1000	4.509	34.570	4.429	27.398	78.0	1.575
1007	4.466	34.571	4.386	27.404	77.4	1.580

STA NO 18 A-17 LAT: 4 59.9 S LONG: 84 59.1 W
06 FEB 1983 0024 GMT PROBE 2561 DEPTH 3939M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.141	34.650	28.140	22.088	572.8	0.006
10	28.059	34.787	28.057	22.218	560.7	0.057
20	27.831	34.921	27.826	22.394	544.4	0.112
30	26.662	34.898	26.655	22.752	510.6	0.166
40	26.090	34.988	26.082	23.001	487.3	0.215
50	25.895	34.987	25.883	23.062	481.9	0.264
60	25.758	34.994	25.744	23.110	477.7	0.312
70	25.089	35.003	25.073	23.323	457.8	0.359
80	24.286	35.095	24.269	23.635	428.4	0.403
90	22.776	35.094	22.758	24.076	386.7	0.444
100	20.260	35.154	20.241	24.817	316.2	0.480
110	19.120	35.179	19.101	25.133	286.3	0.510
120	18.585	35.173	18.564	25.265	274.1	0.538
130	17.871	35.181	17.849	25.449	256.8	0.564
140	17.094	35.161	17.071	25.622	240.5	0.589
150	16.383	35.130	16.359	25.766	227.1	0.613
175	14.808	35.024	14.782	26.039	201.5	0.666
200	13.817	34.978	13.788	26.215	185.3	0.714
225	13.372	34.952	13.341	26.287	179.0	0.760
250	12.736	34.915	12.702	26.387	170.0	0.803
300	11.910	34.864	11.871	26.508	159.4	0.885
400	8.868	34.680	8.824	26.896	122.9	1.023
500	7.298	34.609	7.249	27.076	106.2	1.137
600	6.364	34.576	6.309	27.178	97.1	1.239
800	5.167	34.563	5.100	27.317	84.7	1.418
1000	4.209	34.570	4.132	27.431	74.2	1.578
1005	4.183	34.571	4.105	27.434	73.9	1.581



STATION 18 A-17



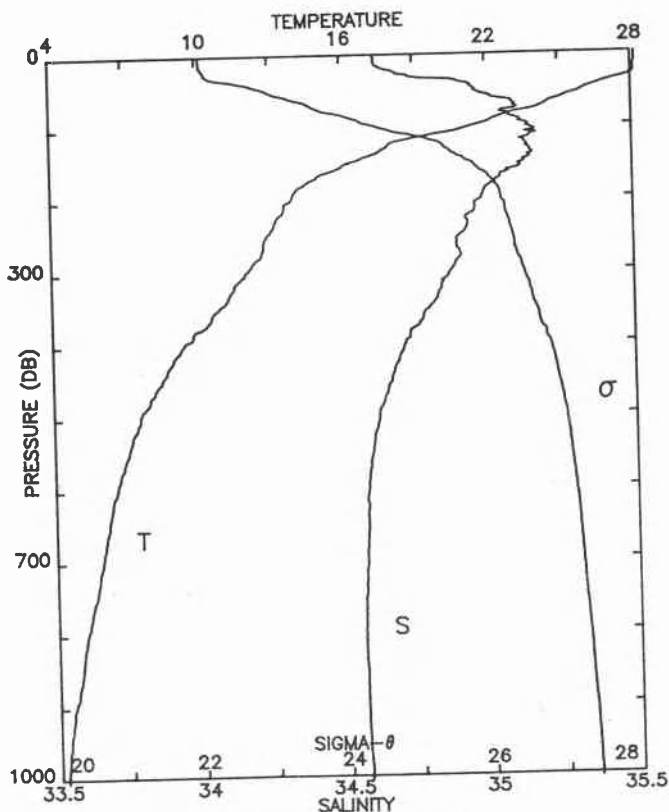
STATION 19 A-18

STA NO 19 A-18 LAT: 5 30.0 S LONG: 85 0.0 W
06 FEB 1983 0410 GMT PROBE 2561 DEPTH 3792M

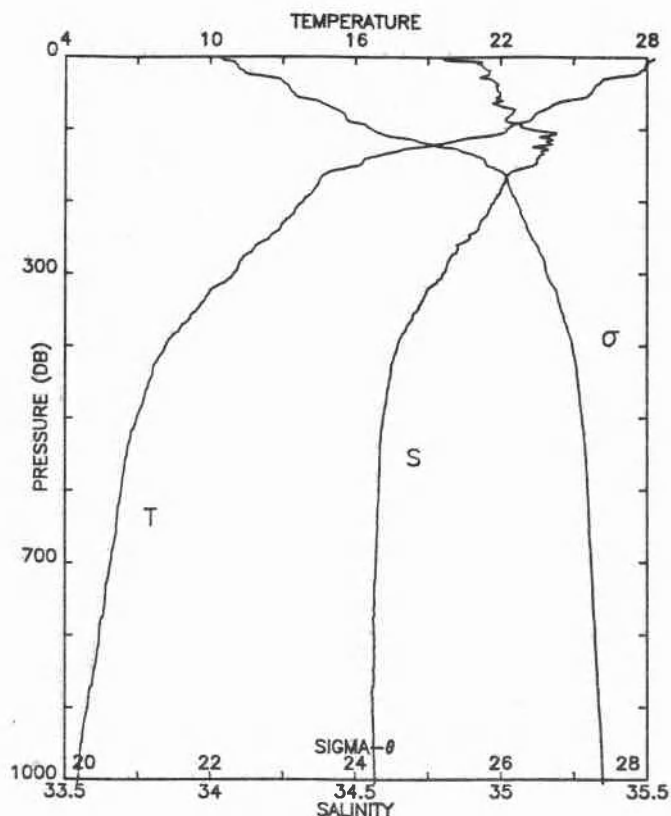
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.236	34.570	28.236	21.997	581.5	0.006
10	28.124	34.695	28.121	22.128	569.4	0.058
20	28.029	34.709	28.024	22.170	565.8	0.115
30	27.524	34.737	27.517	22.356	548.5	0.171
40	26.843	34.882	26.833	22.684	517.6	0.223
50	26.476	34.987	26.465	22.880	499.3	0.274
60	26.337	35.006	26.323	22.939	494.1	0.324
70	25.460	35.045	25.445	23.241	465.7	0.372
80	24.392	35.101	24.375	23.608	431.0	0.417
90	23.612	35.163	23.593	23.886	404.8	0.459
100	21.918	35.153	21.898	24.364	359.5	0.497
110	20.907	35.156	20.886	24.645	333.1	0.532
120	19.261	35.174	19.239	25.094	290.4	0.563
130	17.899	35.125	17.877	25.399	261.6	0.590
140	16.777	35.112	16.755	25.659	236.9	0.615
150	16.073	35.087	16.049	25.804	223.4	0.638
175	14.512	35.020	14.486	26.100	195.7	0.690
200	13.724	34.975	13.695	26.232	183.6	0.737
225	13.239	34.953	13.208	26.315	176.3	0.782
250	12.688	34.916	12.654	26.397	169.0	0.825
300	11.783	34.857	11.744	26.527	157.6	0.907
400	9.710	34.729	9.664	26.797	132.9	1.052
500	7.593	34.617	7.543	27.040	109.9	1.171
600	6.550	34.576	6.494	27.154	99.6	1.275
800	5.135	34.556	5.069	27.316	84.8	1.460
1000	4.304	34.569	4.226	27.420	75.5	1.621
1005	4.297	34.569	4.219	27.420	75.4	1.625

STA NO 20 A-19 LAT: 6 0.0 S LONG: 84 59.9 W
06 FEB 1983 0807 GMT PROBE 2561 DEPTH 4043M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.154	34.618	28.154	22.059	575.5	0.006
10	28.159	34.618	28.157	22.059	576.0	0.058
20	28.112	34.649	28.108	22.098	572.7	0.115
30	28.065	34.733	28.058	22.177	565.6	0.172
40	27.025	34.923	27.016	22.656	520.2	0.226
50	26.088	34.961	26.077	22.982	489.5	0.277
60	25.285	35.019	25.272	23.274	462.0	0.325
70	24.501	35.098	24.486	23.572	434.0	0.369
80	23.530	35.053	23.513	23.826	410.1	0.412
90	22.367	35.107	22.349	24.203	374.5	0.451
100	21.438	35.143	21.419	24.489	347.5	0.487
110	20.078	35.153	20.057	24.865	312.0	0.520
120	18.405	35.124	18.384	25.272	273.3	0.549
130	17.795	35.141	17.773	25.437	257.9	0.575
140	17.192	35.149	17.169	25.590	243.7	0.600
150	16.300	35.128	16.276	25.784	225.4	0.624
175	14.651	35.029	14.625	26.077	197.9	0.677
200	13.894	34.979	13.865	26.200	186.7	0.724
225	13.298	34.925	13.267	26.281	179.5	0.770
250	12.849	34.905	12.815	26.357	172.9	0.814
300	11.994	34.870	11.955	26.498	160.5	0.898
400	9.368	34.710	9.323	26.839	128.7	1.044
500	7.540	34.614	7.491	27.046	109.3	1.162
600	6.535	34.574	6.480	27.154	99.5	1.267
800	5.190	34.552	5.123	27.306	85.8	1.452
1000	4.266	34.566	4.188	27.421	75.2	1.612
1005	4.263	34.566	4.185	27.422	75.2	1.616



STATION 20 A-19



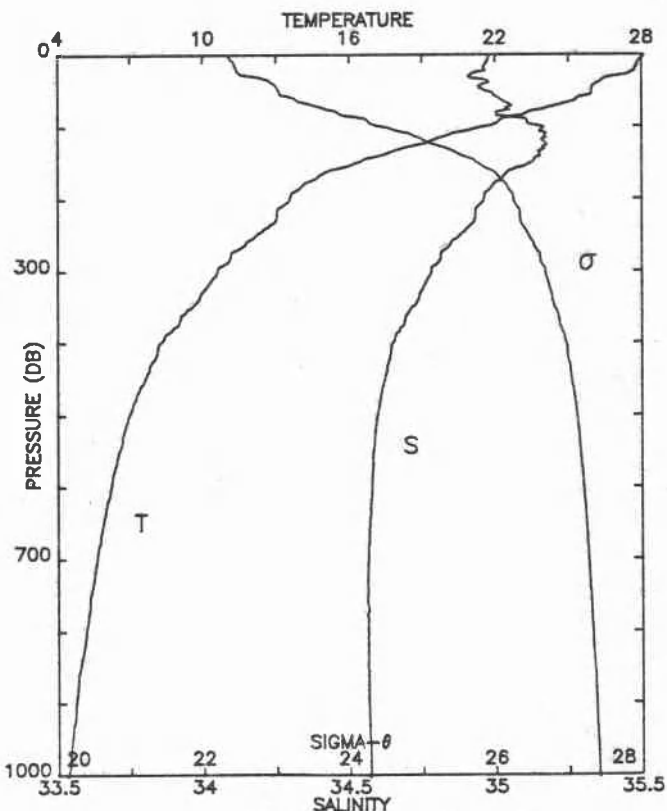
STATION 21 A-15

STA NO 21 A-15 LAT: 4 0.0 S LONG: 85 0.0 W
07 FEB 1983 0037 GMT PROBE 2561 DEPTH 3460M

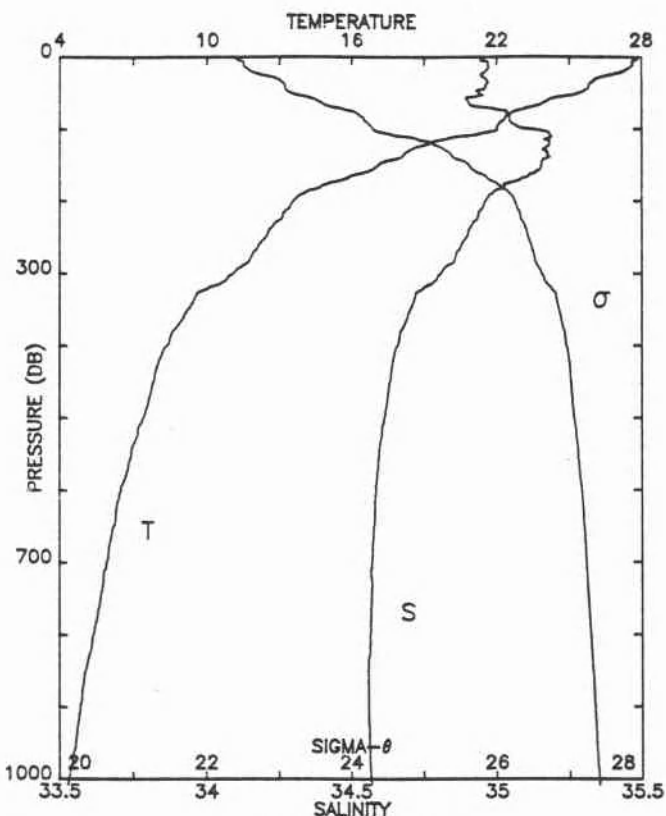
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.287	34.802	28.287	22.154	566.5	0.017
10	27.977	34.927	27.974	22.350	548.1	0.056
20	27.714	34.960	27.709	22.461	538.0	0.110
30	26.332	34.947	26.325	22.894	497.1	0.163
40	25.877	34.987	25.868	23.066	481.0	0.211
50	25.676	34.996	25.665	23.136	474.8	0.259
60	24.772	34.997	24.760	23.414	448.7	0.306
70	23.982	35.020	23.968	23.668	424.8	0.349
80	23.406	35.035	23.390	23.849	407.9	0.391
90	23.011	35.027	22.992	23.958	398.0	0.432
100	22.256	35.101	22.236	24.229	372.4	0.470
110	21.386	35.149	21.364	24.508	346.1	0.506
120	19.615	35.171	19.593	25.000	299.5	0.538
130	17.775	35.149	17.752	25.448	256.9	0.566
140	16.491	35.127	16.468	25.738	229.4	0.590
150	16.143	35.113	16.120	25.808	223.0	0.612
175	14.466	35.012	14.440	26.103	195.3	0.663
200	13.826	34.976	13.797	26.212	185.6	0.711
225	13.147	34.934	13.116	26.319	175.9	0.756
250	12.453	34.892	12.420	26.425	166.2	0.799
300	10.988	34.800	10.951	26.629	147.4	0.876
400	8.149	34.645	8.107	26.980	114.4	1.005
500	6.961	34.596	6.914	27.112	102.4	1.113
600	6.314	34.580	6.260	27.188	96.0	1.212
800	5.404	34.565	5.336	27.291	87.6	1.396
1000	4.534	34.567	4.454	27.394	78.4	1.561
1005	4.516	34.568	4.435	27.396	78.2	1.565

STA NO 22 AW LAT: 4 11.9 S LONG: 85 15.0 W
07 FEB 1983 0325 GMT PROBE 2561 DEPTH 3538M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.068	34.978	28.067	22.358	546.9	0.005
10	27.862	34.971	27.860	22.421	541.4	0.055
20	27.712	34.961	27.708	22.463	537.8	0.108
30	27.044	34.912	27.037	22.641	521.2	0.162
40	26.189	34.971	26.180	22.957	491.4	0.212
50	25.925	34.966	25.914	23.036	484.3	0.261
60	25.444	35.010	25.431	23.219	467.4	0.309
70	24.679	35.053	24.664	23.485	442.3	0.354
80	23.404	35.013	23.388	23.832	409.5	0.397
90	22.269	35.106	22.251	24.229	372.0	0.436
100	21.657	35.156	21.637	24.439	352.4	0.473
110	20.254	35.172	20.233	24.832	315.1	0.506
120	19.392	35.162	19.370	25.051	294.5	0.537
130	18.254	35.164	18.231	25.342	267.1	0.565
140	17.330	35.151	17.307	25.558	246.7	0.591
150	16.383	35.124	16.359	25.761	227.6	0.614
175	14.506	35.015	14.480	26.097	195.9	0.666
200	13.561	34.961	13.533	26.255	181.4	0.713
225	13.026	34.930	12.995	26.341	173.8	0.757
250	12.217	34.881	12.184	26.462	162.7	0.800
300	10.616	34.781	10.580	26.681	142.3	0.875
400	8.272	34.650	8.230	26.964	115.9	1.005
500	6.968	34.596	6.921	27.111	102.5	1.114
600	6.202	34.576	6.149	27.199	94.8	1.212
800	5.140	34.562	5.074	27.320	84.4	1.391
1000	4.395	34.569	4.317	27.410	76.6	1.551
1003	4.384	34.569	4.305	27.411	76.4	1.554



STATION 22 AW

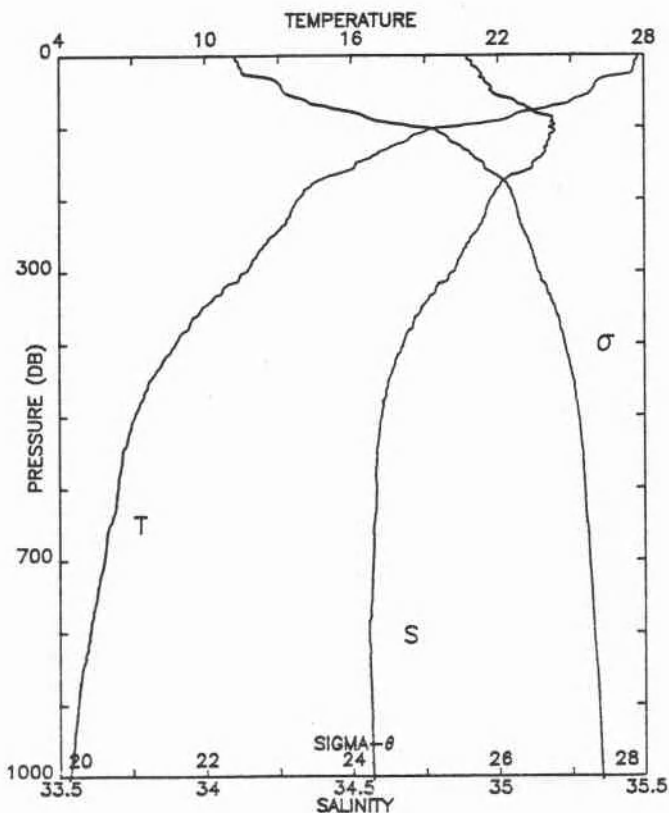


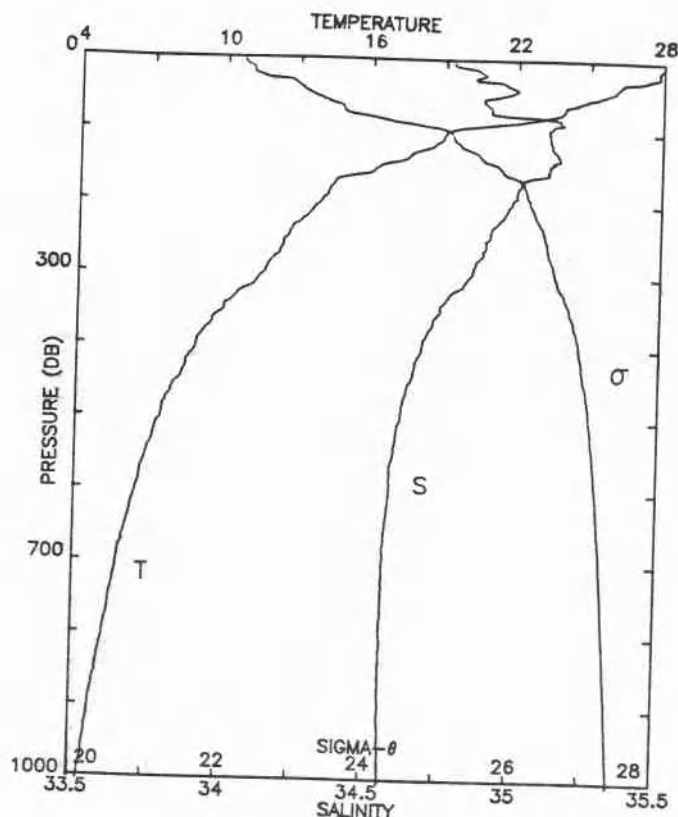
STA NO 23 AE LAT: 4 11.9 S LONG: 84 45.0 W
07 FEB 1983 0713 GMT PROBE 2561 DEPTH 3413M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.868	34.948	27.867	22.401	542.8	0.005
10	27.624	34.970	27.621	22.497	534.1	0.054
20	27.253	34.962	27.248	22.612	523.6	0.107
30	26.167	34.960	26.160	22.955	491.2	0.158
40	25.793	34.961	25.784	23.073	480.4	0.206
50	25.421	34.938	25.410	23.171	471.5	0.254
60	24.152	34.897	24.139	23.524	438.1	0.299
70	23.400	34.955	23.385	23.789	413.2	0.342
80	22.527	35.038	22.511	24.104	383.5	0.382
90	22.185	35.047	22.167	24.208	374.0	0.420
100	22.010	35.111	21.990	24.307	365.0	0.456
110	20.684	35.186	20.663	24.728	325.1	0.491
120	19.184	35.181	19.162	25.119	288.0	0.522
130	18.368	35.164	18.345	25.313	269.8	0.549
140	17.963	35.177	17.939	25.424	259.6	0.576
150	17.092	35.153	17.067	25.617	241.4	0.601
175	15.051	35.044	15.024	26.001	205.2	0.657
200	13.570	34.960	13.542	26.252	181.7	0.705
225	13.062	34.932	13.031	26.334	174.4	0.749
250	12.406	34.894	12.373	26.435	165.2	0.792
300	11.068	34.807	11.031	26.620	148.3	0.870
400	8.345	34.658	8.304	26.960	116.4	0.998
500	7.394	34.613	7.345	27.066	107.3	1.109
600	6.478	34.584	6.423	27.169	98.0	1.212
800	5.367	34.565	5.299	27.295	87.1	1.397
1000	4.365	34.568	4.287	27.412	76.3	1.561
1007	4.344	34.570	4.265	27.417	75.9	1.566

STA NO 24 A-16 LAT: 4 29.9 S LONG: 85 0.0 W
07 FEB 1983 1019 GMT PROBE 2561 DEPTH 3494M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	27.724	34.895	27.724	22.408	542.3	0.016
10	27.623	34.911	27.620	22.454	538.2	0.054
20	27.549	34.931	27.544	22.493	534.9	0.108
30	26.782	34.940	26.775	22.746	511.2	0.161
40	25.993	34.962	25.984	23.012	486.2	0.210
50	25.839	34.975	25.828	23.070	481.1	0.259
60	25.292	35.027	25.279	23.279	461.6	0.306
70	24.464	35.084	24.449	23.573	433.9	0.351
80	22.957	35.124	22.941	24.046	389.1	0.392
90	22.221	35.187	22.203	24.305	364.8	0.430
100	19.925	35.179	19.907	24.924	306.0	0.463
110	18.647	35.180	18.628	25.254	274.7	0.492
120	18.199	35.171	18.178	25.360	265.0	0.519
130	17.472	35.159	17.450	25.529	249.1	0.544
140	16.865	35.150	16.842	25.668	236.2	0.569
150	16.186	35.118	16.162	25.802	223.6	0.592
175	14.540	35.016	14.514	26.091	196.6	0.645
200	13.768	34.972	13.739	26.221	184.7	0.692
225	13.409	34.951	13.378	26.279	179.8	0.738
250	12.761	34.912	12.727	26.380	170.7	0.782
300	11.665	34.847	11.627	26.542	156.1	0.863
400	8.748	34.674	8.705	26.910	121.4	0.999
500	7.082	34.601	7.034	27.100	103.7	1.110
600	6.393	34.583	6.339	27.180	96.9	1.210
800	5.226	34.556	5.159	27.305	86.0	1.392
1000	4.397	34.571	4.318	27.411	76.5	1.553
1005	4.370	34.571	4.291	27.415	76.1	1.557



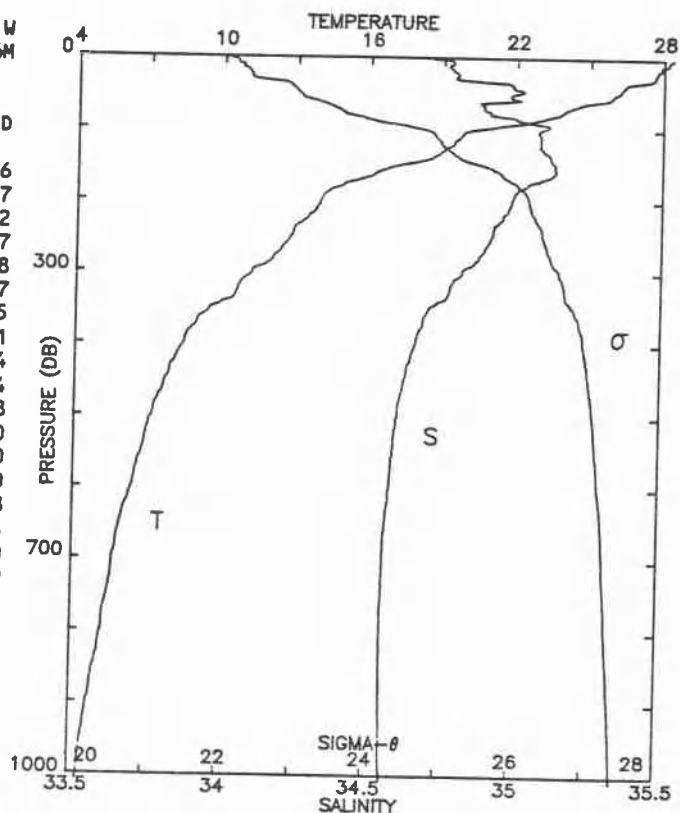


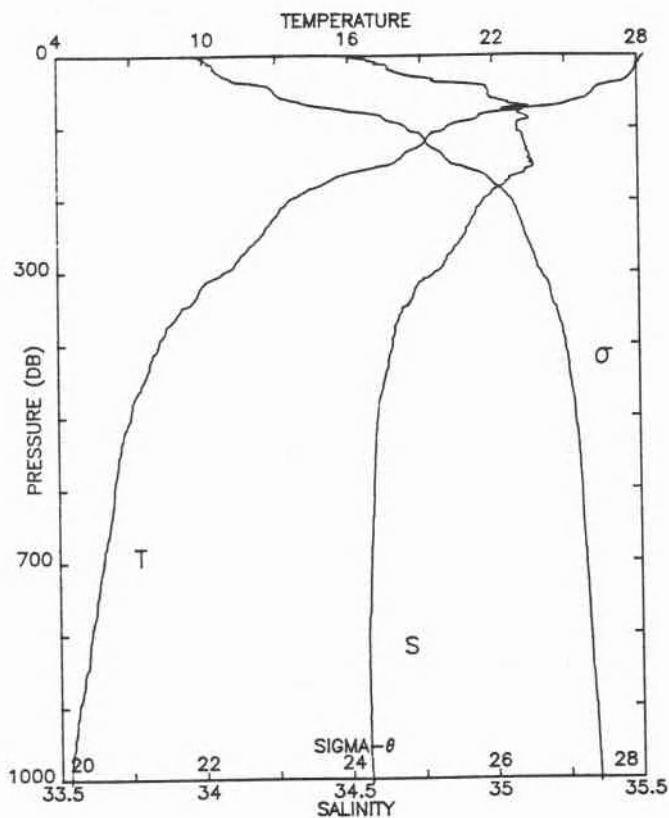
STA NO 25 B-1 LAT: 5 0.5 S LONG: 84 30.0 W
 07 FEB 1983 1512 GMT PROBE 2561 DEPTH 3969M
 379.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
5	28.009	34.776	28.008	22.226	559.7	0.028
10	27.908	34.803	27.905	22.279	554.9	0.056
20	27.825	34.883	27.820	22.367	547.0	0.111
30	26.737	34.901	26.730	22.731	512.7	0.164
40	26.067	34.990	26.058	23.009	486.5	0.214
50	25.450	34.946	25.439	23.168	471.7	0.262
60	24.509	34.886	24.496	23.409	449.1	0.308
70	23.905	34.908	23.891	23.606	430.7	0.352
80	23.146	35.093	23.130	23.968	396.5	0.394
90	21.052	35.144	21.035	24.595	337.0	0.431
100	19.137	35.109	19.119	25.075	291.5	0.462
110	18.938	35.113	18.919	25.130	286.6	0.491
120	18.548	35.120	18.527	25.234	277.0	0.519
130	17.727	35.140	17.705	25.453	256.4	0.545
140	17.296	35.137	17.272	25.555	247.0	0.571
150	16.309	35.113	16.285	25.770	226.7	0.594
175	14.452	35.013	14.426	26.107	195.0	0.646
200	13.920	34.983	13.891	26.198	187.0	0.694
225	13.161	34.940	13.130	26.321	175.7	0.739
250	12.515	34.900	12.482	26.419	166.8	0.782
300	11.591	34.846	11.552	26.554	154.9	0.863
400	8.874	34.684	8.830	26.898	122.7	0.999
500	7.484	34.615	7.435	27.055	108.5	1.114
600	6.515	34.583	6.460	27.164	98.6	1.217
800	5.284	34.560	5.216	27.301	86.4	1.401
1000	4.378	34.567	4.299	27.410	76.5	1.563
1005	4.365	34.567	4.286	27.412	76.4	1.567

STA NO 26 B-2 LAT: 5 0.0 S LONG: 84 0.1 W
 07 FEB 1983 1845 GMT PROBE 2561 DEPTH 3856M
 324.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.361	34.714	28.361	22.063	575.1	0.006
10	28.016	34.776	28.014	22.224	560.2	0.057
20	27.699	34.789	27.695	22.337	549.8	0.112
30	27.512	34.799	27.505	22.407	543.7	0.167
40	26.367	34.986	26.358	22.913	495.7	0.218
50	26.052	34.998	26.041	23.021	485.8	0.267
60	25.419	34.988	25.406	23.210	468.2	0.315
70	24.194	34.886	24.179	23.504	440.5	0.361
80	23.604	34.927	23.587	23.709	421.3	0.404
90	22.380	35.053	22.362	24.157	378.8	0.444
100	20.354	35.086	20.336	24.739	323.6	0.478
110	19.722	35.083	19.702	24.905	308.1	0.510
120	19.435	35.084	19.414	24.980	301.3	0.540
130	18.987	35.095	18.964	25.104	289.8	0.570
140	18.506	35.119	18.482	25.244	276.8	0.598
150	17.222	35.133	17.197	25.570	245.9	0.624
175	14.998	35.041	14.972	26.010	204.3	0.680
200	13.988	34.985	13.959	26.185	188.2	0.729
225	13.405	34.952	13.374	26.281	179.6	0.775
250	12.766	34.918	12.732	26.384	170.3	0.818
300	11.217	34.821	11.180	26.604	150.0	0.899
400	8.449	34.662	8.406	26.947	117.7	1.031
500	7.188	34.605	7.140	27.088	105.0	1.142
600	6.406	34.581	6.351	27.176	97.3	1.243
800	5.245	34.558	5.178	27.304	86.0	1.424
1000	4.367	34.567	4.288	27.411	76.4	1.585
1007	4.349	34.567	4.270	27.413	76.2	1.590





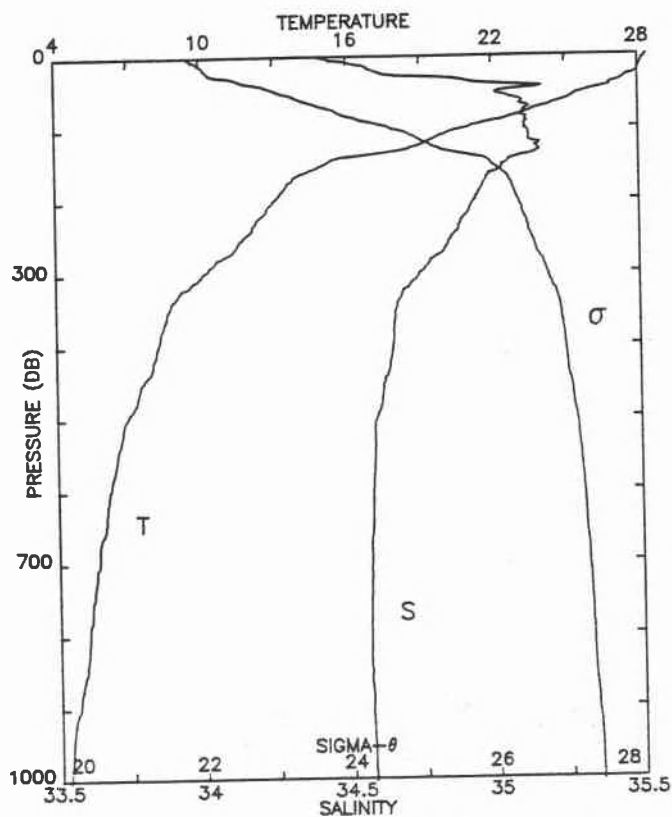
STATION 27 B-3

STA NO 27 B-3 LAT: 5 0.0 S LONG: 83 30.0 W
 07 FEB 1983 2211 GMT PROBE 2561 DEPTH 3476M
 268.0 KM FROM SHORE

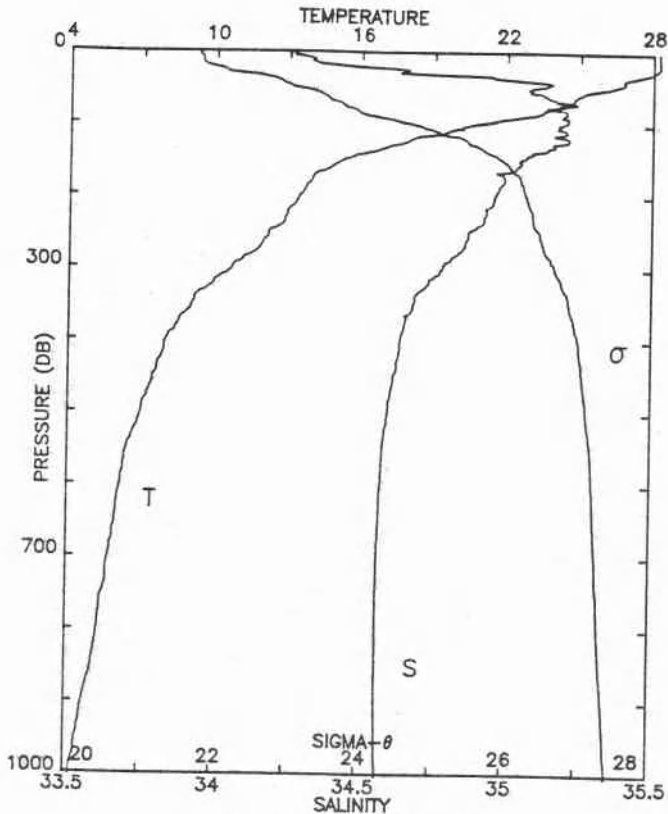
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.264	34.502	28.264	21.936	587.3	0.006
10	28.072	34.594	28.070	22.069	575.0	0.058
20	27.906	34.646	27.902	22.162	566.6	0.115
30	27.678	34.743	27.671	22.311	552.8	0.171
40	26.803	34.926	26.794	22.730	513.2	0.225
50	26.169	34.986	26.158	22.976	490.2	0.275
60	25.769	35.002	25.756	23.113	477.5	0.323
70	24.660	35.105	24.645	23.530	438.1	0.369
80	21.965	35.088	21.949	24.300	364.8	0.409
90	21.110	35.112	21.093	24.555	340.8	0.444
100	20.073	35.083	20.054	24.812	316.6	0.477
110	19.370	35.102	19.350	25.010	298.0	0.508
120	19.145	35.108	19.123	25.073	292.4	0.537
130	18.646	35.116	18.624	25.207	280.0	0.566
140	18.207	35.126	18.183	25.324	269.1	0.593
150	17.735	35.133	17.709	25.446	257.8	0.620
175	15.110	35.044	15.083	25.988	206.5	0.676
200	13.570	34.965	13.542	26.256	181.3	0.724
225	12.915	34.926	12.884	26.359	172.0	0.768
250	12.362	34.894	12.328	26.444	164.4	0.810
300	10.842	34.795	10.805	26.651	145.3	0.888
400	8.141	34.648	8.100	26.983	114.1	1.015
500	6.959	34.594	6.912	27.112	102.5	1.123
600	6.267	34.579	6.213	27.193	95.5	1.221
800	5.289	34.557	5.221	27.298	86.7	1.403
1000	4.399	34.565	4.320	27.406	76.9	1.567
1005	4.397	34.565	4.317	27.407	76.9	1.570

STA NO 28 B-4 LAT: 5 0.0 S LONG: 83 0.0 W
 08 FEB 1983 0117 GMT PROBE 2561 DEPTH 3807M
 213.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.351	34.410	28.350	21.838	596.7	0.006
10	28.152	34.518	28.150	21.985	583.0	0.059
20	28.005	34.594	28.000	22.091	573.4	0.117
30	27.499	34.824	27.492	22.429	541.5	0.173
40	26.843	35.051	26.834	22.811	505.4	0.226
50	25.874	35.018	25.863	23.092	479.1	0.275
60	25.162	35.088	25.149	23.364	453.4	0.321
70	24.262	35.123	24.247	23.663	425.3	0.365
80	23.342	35.102	23.326	23.918	401.3	0.406
90	22.232	35.117	22.214	24.248	370.2	0.445
100	20.930	35.112	20.911	24.605	336.4	0.480
110	19.893	35.126	19.873	24.892	309.3	0.512
120	19.206	35.150	19.185	25.089	290.9	0.542
130	18.351	35.160	18.328	25.314	269.7	0.570
140	15.954	35.087	15.932	25.831	220.5	0.595
150	15.079	35.039	15.057	25.990	205.4	0.616
175	13.584	34.969	13.559	26.256	180.6	0.664
200	12.994	34.936	12.967	26.351	172.1	0.708
225	12.342	34.893	12.312	26.446	163.5	0.750
250	11.751	34.854	11.719	26.530	156.0	0.790
300	10.082	34.743	10.047	26.744	136.0	0.863
400	8.174	34.649	8.133	26.979	114.5	0.985
500	6.866	34.591	6.819	27.122	101.4	1.094
600	6.120	34.576	6.067	27.209	93.8	1.191
800	5.198	34.561	5.131	27.312	85.2	1.370
1000	4.332	34.570	4.253	27.418	75.7	1.530
1003	4.330	34.570	4.251	27.418	75.7	1.533



STATION 28 B-4



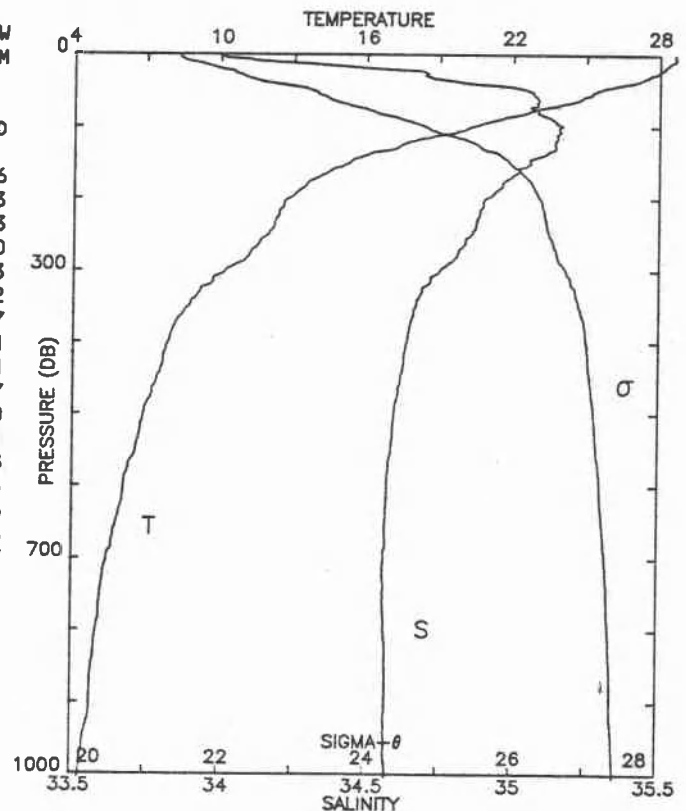
STATION 29 B-5

STA NO 29 B-5 LAT: 4 59.9 S LONG: 82 40.0 W
 08 FEB 1983 0426 GMT PROBE 2561 DEPTH 3514M
 176.0 KM FROM SHORE

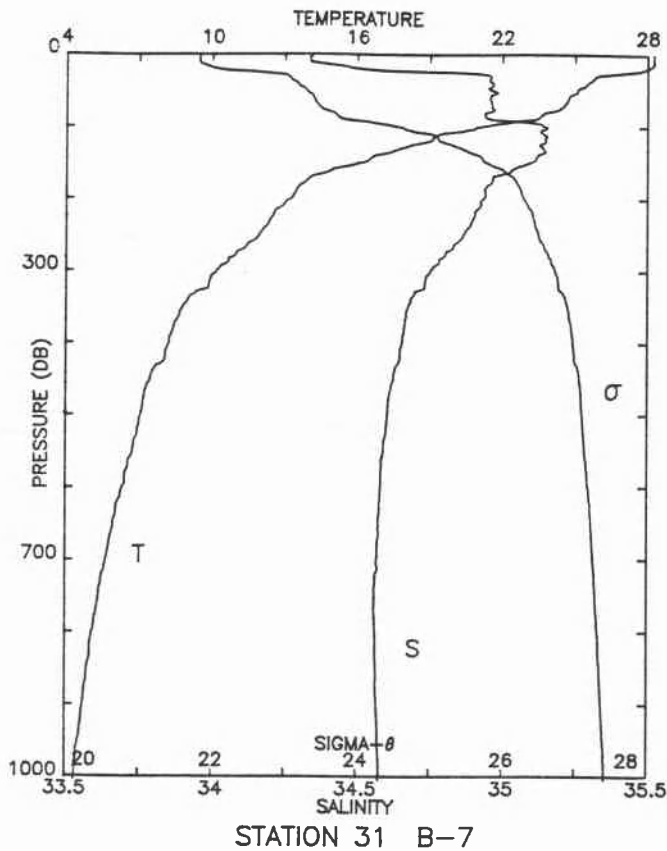
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.241	34.264	28.241	21.764	603.8	0.006
10	28.259	34.332	28.257	21.811	599.7	0.060
20	28.265	34.456	28.260	21.903	591.4	0.120
30	27.693	34.691	27.686	22.266	557.1	0.177
40	26.778	35.096	26.768	22.866	500.2	0.230
50	25.958	35.080	25.947	23.112	477.1	0.279
60	24.893	35.132	24.880	23.479	442.5	0.324
70	24.450	35.233	24.435	23.690	422.8	0.368
80	23.552	35.197	23.535	23.929	400.3	0.409
90	22.466	35.199	22.447	24.244	370.6	0.448
100	20.666	35.183	20.647	24.730	324.5	0.483
110	19.546	35.205	19.526	25.044	294.9	0.514
120	18.101	35.211	18.080	25.415	259.7	0.542
130	17.204	35.161	17.182	25.595	242.8	0.567
140	16.230	35.088	16.207	25.768	226.5	0.590
150	15.268	35.046	15.245	25.954	209.0	0.612
175	13.974	34.993	13.949	26.194	186.6	0.661
200	13.461	34.960	13.433	26.275	179.5	0.707
225	12.958	34.930	12.927	26.354	172.5	0.751
250	12.194	34.870	12.161	26.458	163.0	0.793
300	10.694	34.780	10.658	26.666	143.7	0.871
400	7.987	34.639	7.946	26.999	112.4	0.997
500	6.984	34.598	6.936	27.111	102.5	1.104
600	6.166	34.577	6.112	27.204	94.3	1.202
800	5.283	34.566	5.215	27.306	85.9	1.382
1000	4.224	34.572	4.147	27.431	74.2	1.542
1003	4.221	34.572	4.143	27.431	74.2	1.544

STA NO 30 B-6 LAT: 5 0.1 S LONG: 82 20.0 W
 08 FEB 1983 0706 GMT PROBE 2561 DEPTH 4177M
 140.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.624	33.998	28.624	21.439	634.9	0.006
10	28.536	34.168	28.534	21.597	620.3	0.063
20	28.149	34.534	28.144	22.000	582.1	0.123
30	27.568	34.705	27.561	22.318	552.2	0.180
40	26.747	34.850	26.738	22.690	517.0	0.233
50	25.455	35.051	25.444	23.246	464.3	0.282
60	24.843	35.081	24.830	23.455	444.7	0.327
70	23.870	35.083	23.856	23.749	417.1	0.371
80	22.608	35.085	22.592	24.116	382.4	0.411
90	21.410	35.135	21.393	24.491	347.0	0.447
100	20.336	35.162	20.317	24.802	317.6	0.480
110	19.387	35.153	19.368	25.045	294.7	0.511
120	17.893	35.144	17.873	25.415	259.7	0.538
130	17.202	35.143	17.180	25.582	244.0	0.563
140	15.947	35.096	15.925	25.839	219.7	0.586
150	15.301	35.059	15.278	25.957	208.7	0.608
175	13.673	34.971	13.648	26.239	182.2	0.657
200	12.785	34.907	12.758	26.370	170.2	0.701
225	12.364	34.884	12.334	26.435	164.6	0.742
250	11.956	34.859	11.923	26.495	159.4	0.783
300	10.225	34.753	10.190	26.727	137.7	0.858
400	7.904	34.639	7.863	27.011	111.2	0.979
500	6.907	34.598	6.860	27.121	101.5	1.086
600	6.114	34.576	6.061	27.210	93.7	1.184
800	5.012	34.568	4.947	27.339	82.3	1.359
1000	4.345	34.577	4.266	27.422	75.4	1.517
1005	4.331	34.577	4.253	27.423	75.3	1.521



STATION 30 B-6

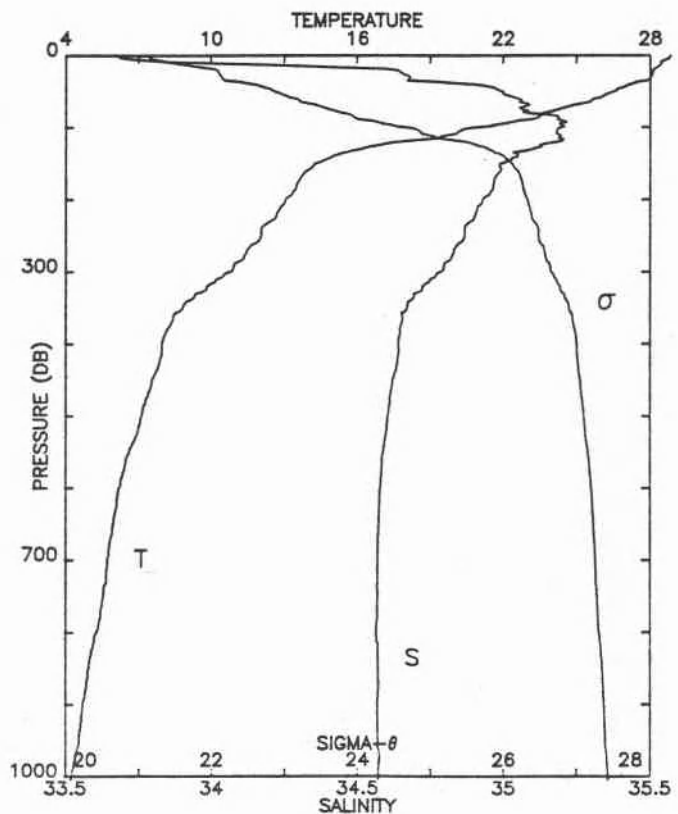


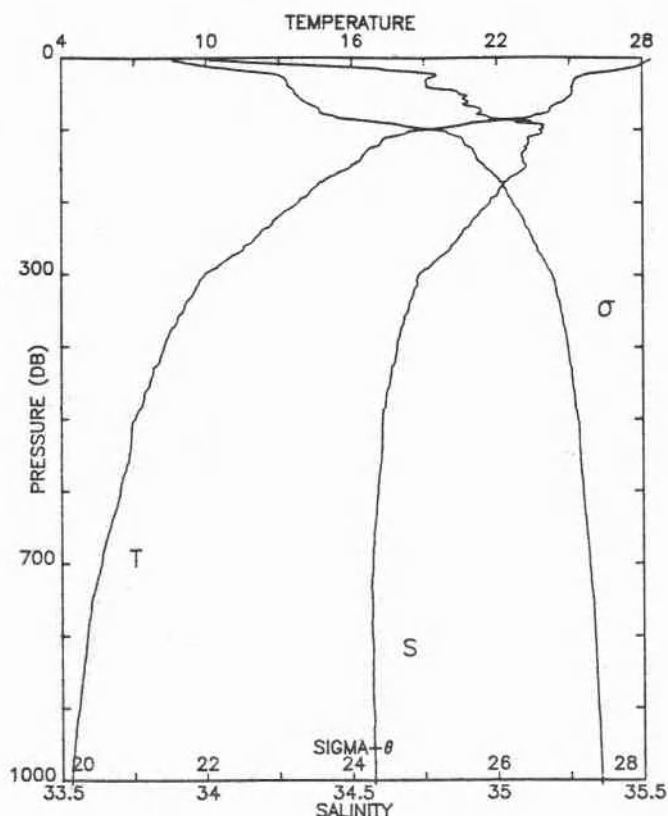
STA NO 31 B-7 LAT: 5 0.0 S LONG: 82 0.0 W
 08 FEB 1983 0947 GMT PROBE 2561 DEPTH 5267M
 103.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.253	34.343	28.253	21.820	598.4	0.006
10	28.257	34.338	28.255	21.816	599.3	0.060
20	27.919	34.506	27.915	22.053	577.0	0.119
30	25.929	34.958	25.922	23.028	484.2	0.172
40	25.505	34.967	25.497	23.166	471.5	0.220
50	25.086	34.968	25.075	23.296	459.5	0.267
60	24.730	34.957	24.717	23.396	450.4	0.312
70	24.543	34.964	24.528	23.458	444.8	0.357
80	23.898	34.951	23.882	23.641	427.8	0.401
90	23.324	34.969	23.306	23.823	410.8	0.443
100	21.106	35.148	21.087	24.584	338.5	0.480
110	19.453	35.140	19.433	25.018	297.3	0.512
120	18.940	35.148	18.918	25.156	284.4	0.541
130	17.789	35.139	17.767	25.437	257.9	0.568
140	16.726	35.121	16.704	25.678	235.2	0.593
150	16.158	35.094	16.134	25.790	224.7	0.616
175	13.913	34.965	13.888	26.185	187.4	0.666
200	13.262	34.932	13.234	26.294	177.6	0.712
225	12.489	34.901	12.459	26.424	165.6	0.754
250	11.938	34.864	11.906	26.502	158.7	0.795
300	10.196	34.751	10.161	26.731	137.3	0.869
400	8.239	34.655	8.197	26.974	115.0	0.993
500	7.085	34.605	7.037	27.103	103.4	1.101
600	6.325	34.582	6.271	27.188	96.0	1.201
800	5.099	34.565	5.032	27.327	83.6	1.380
1000	4.373	34.579	4.295	27.420	75.6	1.538
1005	4.368	34.579	4.289	27.421	75.6	1.542

STA NO 32 B-5.5 LAT: 4 59.9 S LONG: 82 30.1 W
 08 FEB 1983 1856 GMT PROBE 2561 DEPTH 3884M
 158.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.831	33.683	28.831	21.134	664.2	0.007
10	28.441	33.920	28.439	21.442	635.1	0.066
20	28.133	34.618	28.128	22.068	575.6	0.126
30	28.032	34.680	28.024	22.148	568.4	0.183
40	27.251	34.872	27.242	22.546	530.8	0.239
50	26.551	34.994	26.540	22.861	501.1	0.290
60	25.834	35.047	25.820	23.126	476.2	0.339
70	24.837	35.083	24.822	23.460	444.7	0.385
80	23.738	35.084	23.722	23.788	413.7	0.428
90	22.915	35.194	22.897	24.111	383.3	0.468
100	21.049	35.199	21.030	24.639	333.3	0.504
110	19.939	35.187	19.919	24.927	306.1	0.536
120	17.852	35.187	17.831	25.458	255.6	0.564
130	16.193	35.102	16.172	25.787	224.3	0.588
140	15.030	35.048	15.008	26.008	203.4	0.609
150	14.347	34.995	14.325	26.115	193.4	0.629
175	13.567	34.966	13.543	26.257	180.5	0.675
200	13.051	34.929	13.024	26.333	173.8	0.720
225	12.636	34.899	12.605	26.394	168.6	0.763
250	12.049	34.867	12.016	26.483	160.5	0.803
300	10.794	34.786	10.758	26.653	145.1	0.880
400	7.953	34.640	7.912	27.005	111.8	1.004
500	7.103	34.604	7.055	27.100	103.8	1.112
600	6.201	34.578	6.147	27.200	94.7	1.211
800	5.256	34.563	5.189	27.307	85.8	1.392
1000	4.250	34.571	4.172	27.427	74.6	1.551
1005	4.220	34.572	4.142	27.431	74.2	1.555





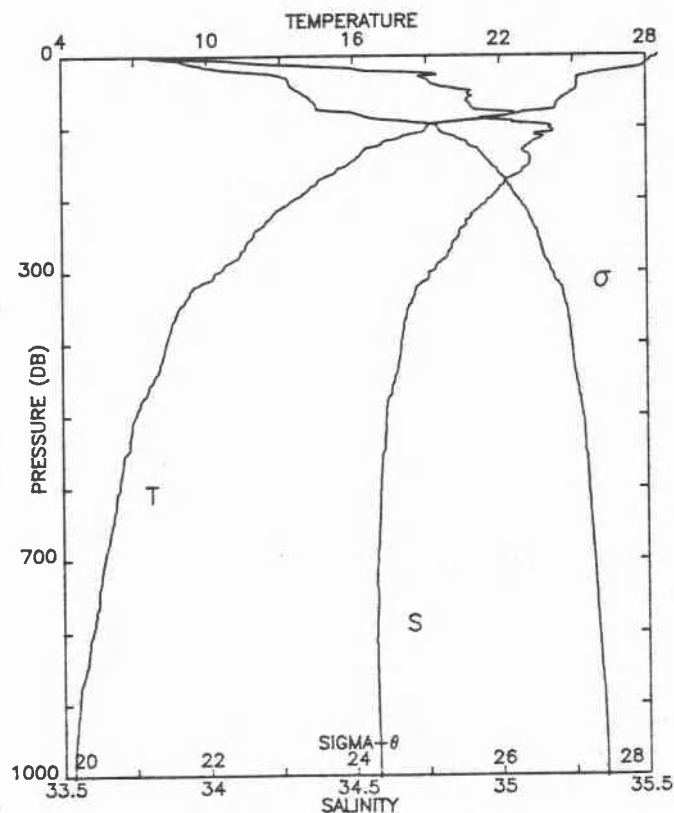
STATION 33 B-8

STA NO 33 B-8 LAT: 5 2.5 S LONG: 81 38.1 W
 09 FEB 1983 0019 GMT PROBE 2561 DEPTH 2654M
 62.7 KM FROM SHORE

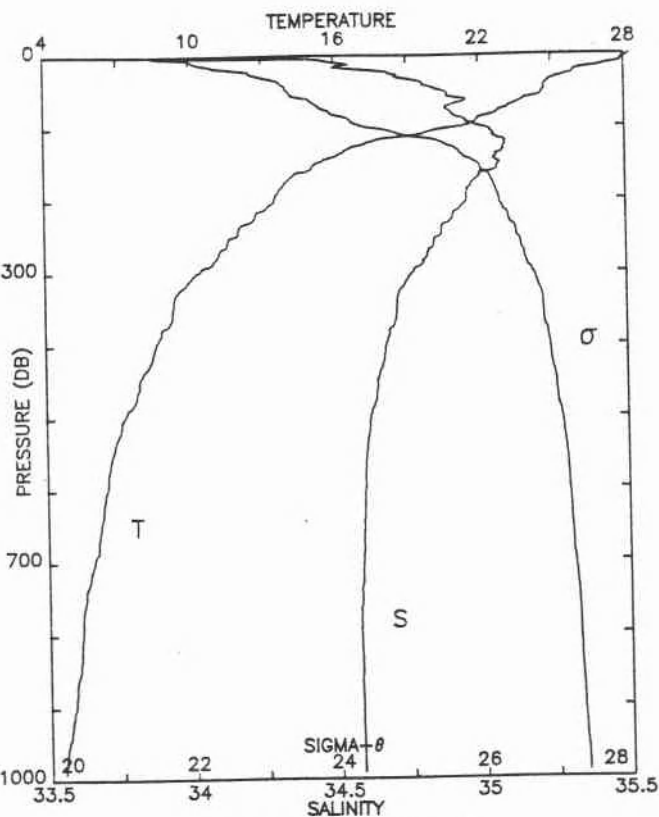
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	28.356	34.013	28.355	21.539	625.5	0.019
10	27.918	34.303	27.916	21.900	591.2	0.061
20	26.531	34.732	26.526	22.668	518.1	0.117
30	25.260	34.761	25.253	23.085	478.7	0.166
40	25.113	34.760	25.104	23.130	474.9	0.214
50	25.106	34.871	25.095	23.217	467.0	0.261
60	24.807	34.898	24.794	23.328	456.9	0.307
70	24.238	34.936	24.223	23.528	438.2	0.352
80	23.727	34.948	23.710	23.689	423.2	0.395
90	21.428	35.094	21.410	24.454	350.5	0.435
100	19.124	35.154	19.107	25.112	287.9	0.467
110	17.573	35.121	17.554	25.475	253.6	0.494
120	17.189	35.108	17.169	25.558	246.0	0.518
130	16.627	35.095	16.606	25.681	234.5	0.542
140	16.404	35.088	16.381	25.728	230.3	0.566
150	15.996	35.101	15.973	25.832	220.7	0.588
175	14.618	35.024	14.592	26.080	197.6	0.640
200	13.808	34.977	13.780	26.216	185.2	0.688
225	12.806	34.917	12.776	26.374	170.6	0.733
250	12.016	34.866	11.983	26.489	160.0	0.774
300	9.942	34.733	9.907	26.760	134.4	0.848
400	8.234	34.657	8.192	26.975	114.8	0.972
500	7.025	34.607	6.977	27.113	102.5	1.080
600	6.413	34.590	6.359	27.183	96.7	1.180
800	5.033	34.569	4.967	27.338	82.5	1.358
1000	4.374	34.577	4.295	27.418	75.8	1.516
1005	4.368	34.577	4.289	27.419	75.7	1.519

STA NO 34 B-9 LAT: 5 0.0 S LONG: 81 30.0 W
 09 FEB 1983 0155 GMT PROBE 2561 DEPTH 1972M
 47.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.482	33.802	28.482	21.339	644.5	0.006
10	28.089	34.172	28.087	21.746	606.0	0.063
20	27.141	34.529	27.136	22.322	551.3	0.121
30	25.270	34.730	25.263	23.059	481.3	0.171
40	25.145	34.774	25.136	23.131	474.8	0.219
50	25.022	34.898	25.012	23.263	462.7	0.266
60	24.533	34.891	24.520	23.405	449.4	0.312
70	24.282	34.901	24.267	23.489	441.9	0.356
80	22.875	35.051	22.859	24.014	392.1	0.399
90	20.806	35.003	20.789	24.554	340.8	0.436
100	19.008	35.172	18.990	25.156	283.7	0.466
110	18.300	35.119	18.281	25.294	270.8	0.494
120	17.237	35.112	17.217	25.549	246.8	0.520
130	16.487	35.080	16.466	25.702	232.4	0.544
140	16.230	35.101	16.208	25.778	225.5	0.567
150	15.821	35.101	15.797	25.872	216.9	0.589
175	14.525	35.015	14.499	26.093	196.3	0.641
200	13.570	34.960	13.542	26.252	181.7	0.688
225	12.593	34.899	12.563	26.402	167.8	0.732
250	11.859	34.857	11.827	26.512	157.7	0.772
300	10.397	34.762	10.361	26.704	140.0	0.847
400	8.268	34.659	8.226	26.972	115.2	0.971
500	7.002	34.607	6.954	27.116	102.1	1.080
600	6.327	34.587	6.273	27.191	95.7	1.179
800	5.171	34.570	5.105	27.323	84.2	1.358
1000	4.402	34.578	4.323	27.416	76.0	1.516
1003	4.395	34.578	4.316	27.417	76.0	1.518



STATION 34 B-9

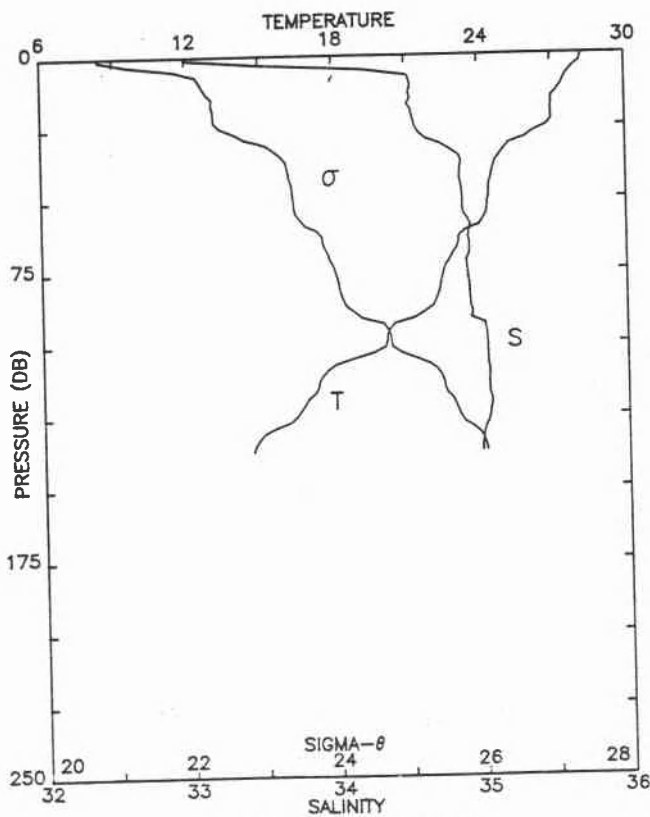


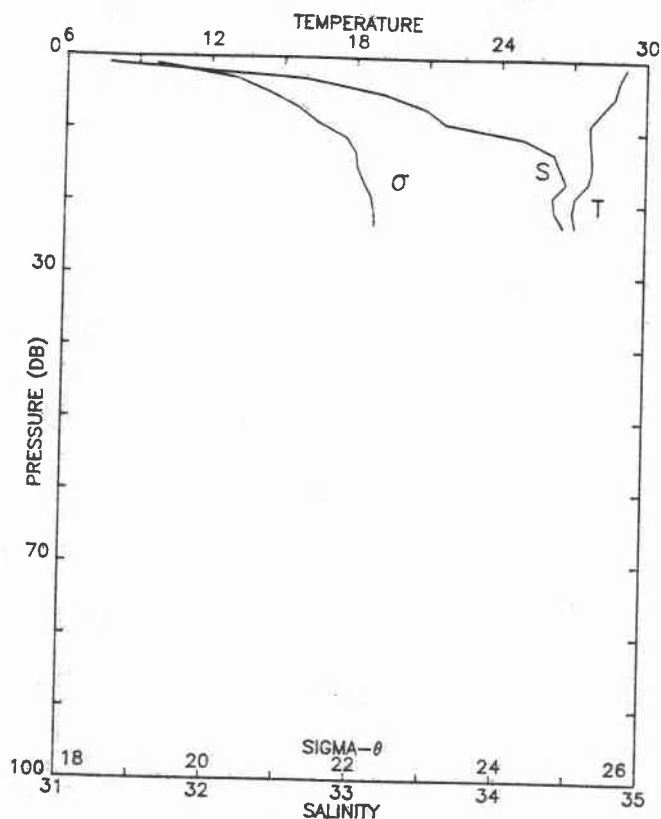
STA NO 35 B-10 LAT: 4 58.1 S LONG: 81 25.7 W
 09 FEB 1983 0347 GMT PROBE 2561 DEPTH 1023M
 39.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.256	33.923	28.256	21.504	628.7	0.006
10	27.844	34.507	27.841	22.078	574.2	0.060
20	26.284	34.592	26.279	22.640	520.8	0.115
30	25.468	34.716	25.461	22.988	488.0	0.165
40	24.772	34.806	24.764	23.268	461.7	0.212
50	24.650	34.882	24.639	23.363	453.1	0.258
60	24.043	34.938	24.030	23.587	432.1	0.303
70	23.320	34.896	23.305	23.768	415.2	0.345
80	22.728	34.905	22.712	23.946	398.6	0.386
90	21.898	34.954	21.880	24.218	373.0	0.424
100	21.027	35.018	21.008	24.507	345.8	0.461
110	19.465	35.047	19.445	24.944	304.4	0.493
120	17.468	35.089	17.448	25.476	253.8	0.520
130	16.583	35.082	16.562	25.681	234.5	0.545
140	16.040	35.056	16.018	25.787	224.6	0.568
150	15.247	35.067	15.224	25.975	206.9	0.589
175	13.974	34.976	13.948	26.180	187.9	0.638
200	13.468	34.952	13.439	26.267	180.2	0.684
225	12.665	34.903	12.635	26.391	168.8	0.728
250	11.821	34.854	11.789	26.517	157.3	0.768
300	10.297	34.764	10.262	26.723	138.1	0.843
400	8.527	34.671	8.485	26.942	118.3	0.969
500	7.188	34.614	7.140	27.096	104.2	1.081
600	6.435	34.593	6.380	27.182	96.8	1.181
800	5.345	34.571	5.277	27.303	86.4	1.363
991	4.555	34.576	4.476	27.398	78.0	1.521

STA NO 36 FSMS LAT: 5 6.3 S LONG: 81 20.4 W
 09 FEB 1983 1213 GMT PROBE 2561 DEPTH 148M

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.252	32.996	28.252	20.809	695.4	0.007
10	27.470	34.536	27.468	22.220	560.5	0.062
20	26.992	34.545	26.988	22.381	545.6	0.117
30	25.574	34.692	25.568	22.936	493.0	0.170
40	24.559	34.871	24.551	23.381	450.9	0.216
50	24.358	34.886	24.348	23.453	444.4	0.261
60	23.675	34.931	23.662	23.690	422.3	0.305
70	22.806	34.916	22.792	23.932	399.5	0.345
80	22.357	34.925	22.341	24.066	387.1	0.385
90	21.494	34.942	21.477	24.320	363.2	0.422
100	20.096	35.046	20.077	24.777	319.9	0.456
110	17.569	35.058	17.550	25.427	258.1	0.484
120	16.778	35.070	16.758	25.626	239.4	0.509
130	15.248	35.016	15.228	25.935	210.1	0.532
137	14.586	35.002	14.565	26.069	197.5	0.547





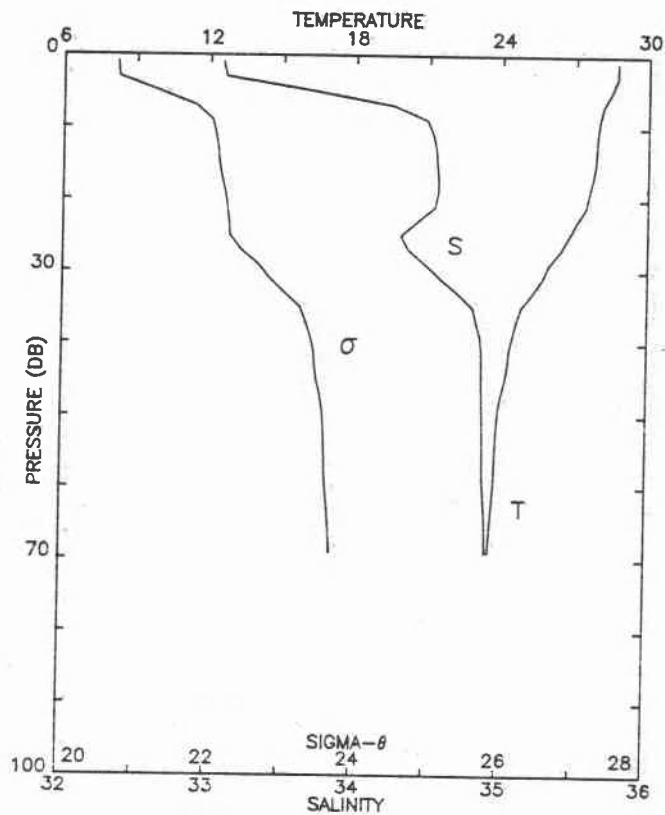
STATION 37 B-12

STA NO 37 B-12 LAT: 5 0.0 S LONG: 81 10.0 W
 09 FEB 1983 1732 GMT PROBE 2561 DEPTH 28M
 10.7 KM FROM SHORE

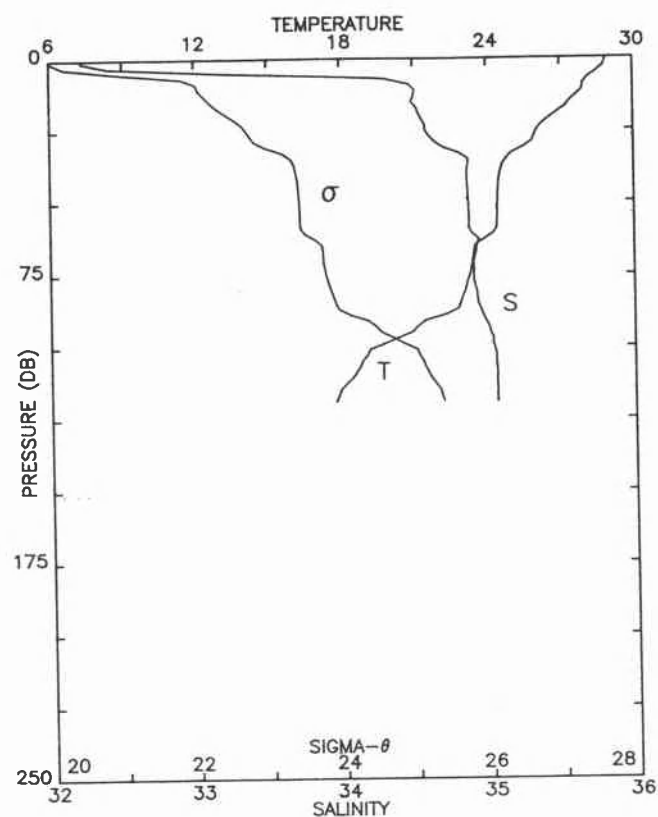
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	29.158	31.296	29.158	19.236	846.5	0.008
10	27.670	33.886	27.667	21.667	613.5	0.071
20	27.010	34.362	27.005	22.238	559.3	0.129
23	27.076	34.432	27.071	22.269	556.4	0.146

STA NO 38 B-11 LAT: 5 0.0 S LONG: 81 15.0 W
 09 FEB 1983 1824 GMT PROBE 2561 DEPTH 73M
 20.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.695	33.087	28.694	20.732	702.8	0.007
10	27.916	34.507	27.914	22.054	576.4	0.065
20	27.489	34.554	27.484	22.229	560.2	0.121
30	25.800	34.535	25.793	22.749	510.9	0.176
40	24.416	34.867	24.407	23.421	447.0	0.223
50	23.914	34.882	23.904	23.583	432.1	0.267
60	23.779	34.894	23.767	23.632	427.8	0.310
69	23.602	34.914	23.588	23.699	421.7	0.348



STATION 38 B-11



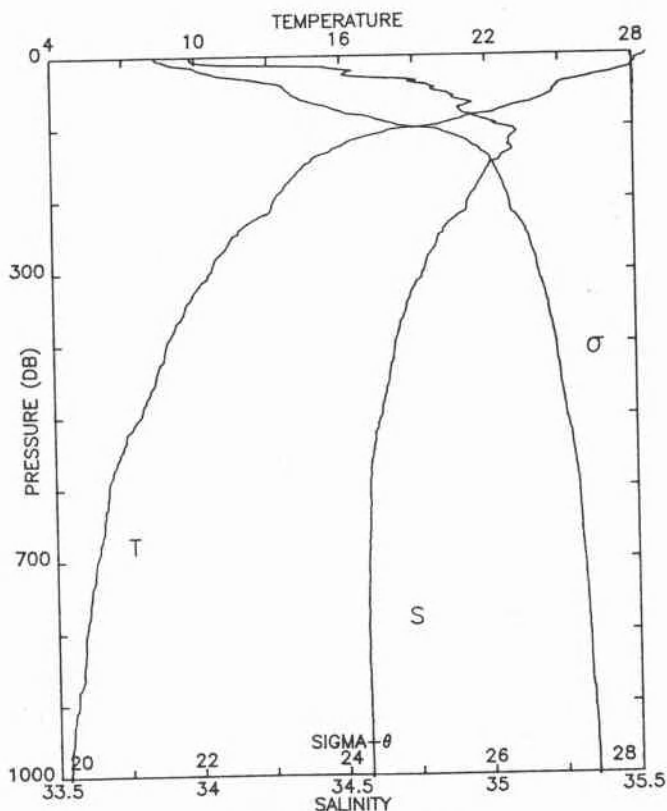
STATION 39 B-10

STA NO 39 B-10 LAT: 5 0.0 S LONG: 81 20.0 W
 09 FEB 1983 1921 GMT PROBE 2561 DEPTH 123M
 29.0 KM FROM SHORE

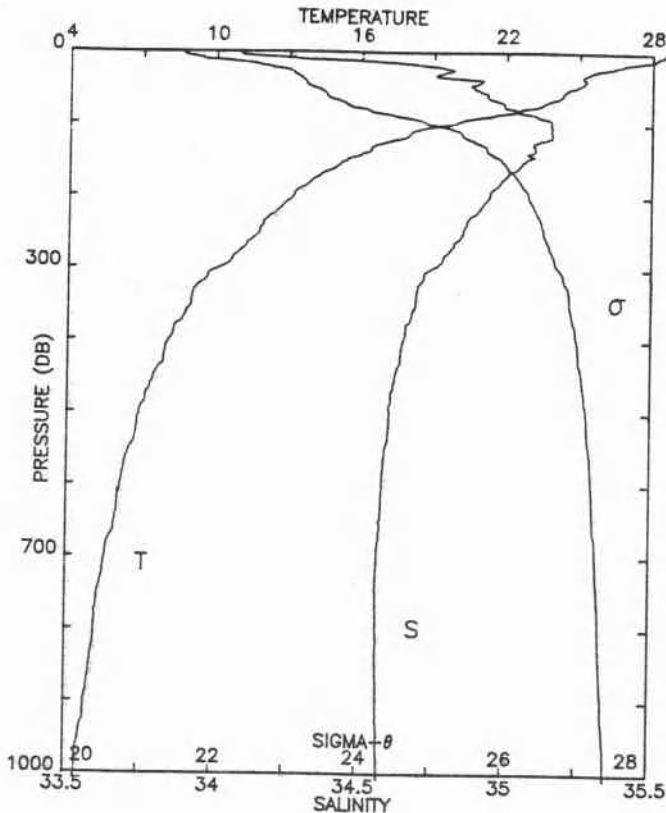
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.884	32.218	28.884	20.017	771.4	0.008
10	27.920	34.493	27.918	22.042	577.6	0.068
20	26.686	34.547	26.682	22.479	536.2	0.124
30	25.654	34.675	25.648	22.899	496.5	0.175
40	24.511	34.862	24.502	23.389	450.2	0.222
50	24.397	34.871	24.387	23.430	446.6	0.266
60	24.281	34.884	24.268	23.476	442.7	0.311
70	23.383	34.906	23.368	23.757	416.2	0.353
80	23.082	34.918	23.065	23.854	407.4	0.395
90	21.865	34.973	21.848	24.240	370.9	0.434
100	19.462	35.036	19.444	24.935	304.8	0.468
110	18.492	35.056	18.473	25.199	280.0	0.497
119	17.739	35.059	17.718	25.387	262.3	0.521

STA NO 40 B-9 LAT: 5 0.0 S LONG: 81 30.0 W
 09 FEB 1983 2036 GMT PROBE 2561 DEPTH 1057M
 47.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.581	33.982	28.581	21.441	634.8	0.006
10	28.127	34.050	28.125	21.642	615.9	0.063
20	27.922	34.522	27.917	22.064	575.9	0.122
30	26.586	34.575	26.579	22.533	531.5	0.178
40	25.103	34.780	25.095	23.148	473.2	0.228
50	24.772	34.830	24.761	23.286	460.4	0.274
60	24.408	34.887	24.395	23.440	446.2	0.320
70	23.313	34.934	23.299	23.798	412.3	0.363
80	22.362	34.917	22.346	24.059	387.8	0.403
90	20.841	34.995	20.824	24.539	342.3	0.439
100	19.265	35.062	19.247	25.006	298.0	0.471
110	17.423	35.101	17.405	25.496	251.6	0.498
120	16.296	35.079	16.277	25.745	228.0	0.522
130	15.657	35.089	15.637	25.899	213.6	0.544
140	14.974	35.055	14.953	26.025	201.8	0.565
150	14.590	35.016	14.568	26.079	196.9	0.585
175	13.830	34.976	13.804	26.210	185.0	0.632
200	13.220	34.936	13.192	26.305	176.5	0.677
225	12.518	34.894	12.488	26.413	166.7	0.721
250	11.498	34.833	11.467	26.560	153.0	0.760
300	10.534	34.777	10.498	26.692	141.2	0.834
400	8.657	34.677	8.614	26.926	119.8	0.963
500	7.563	34.628	7.513	27.053	108.7	1.078
600	6.185	34.584	6.131	27.207	94.1	1.177
800	5.142	34.571	5.076	27.326	83.8	1.356
1000	4.408	34.578	4.329	27.416	76.1	1.515
1003	4.407	34.578	4.328	27.416	76.1	1.518



STATION 40 B-9

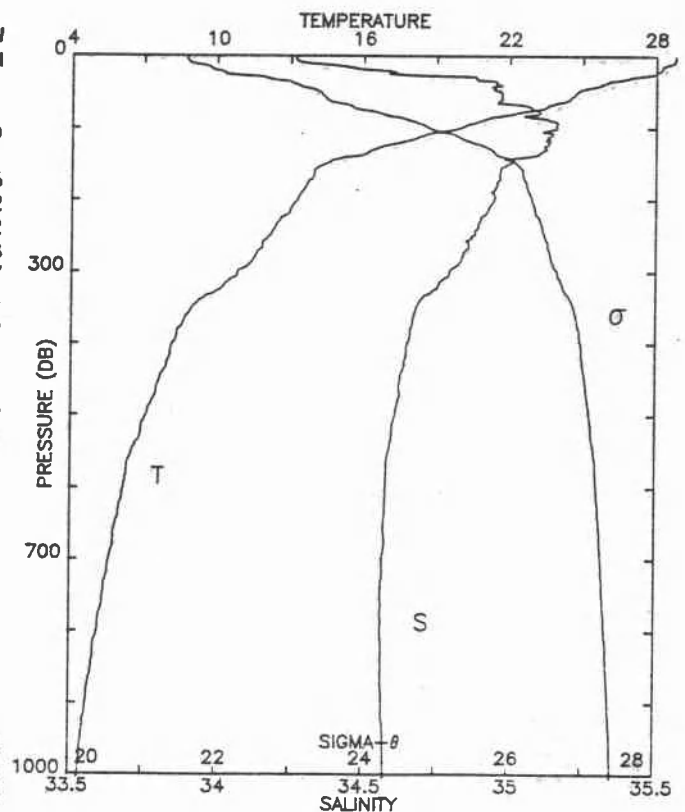


STA NO 41 B-8 LAT: 5 0.4 S LONG: 81 40.5 W
09 FEB 1983 2232 GMT PROBE 2561 DEPTH 2697M
67.0 KM FROM SHORE

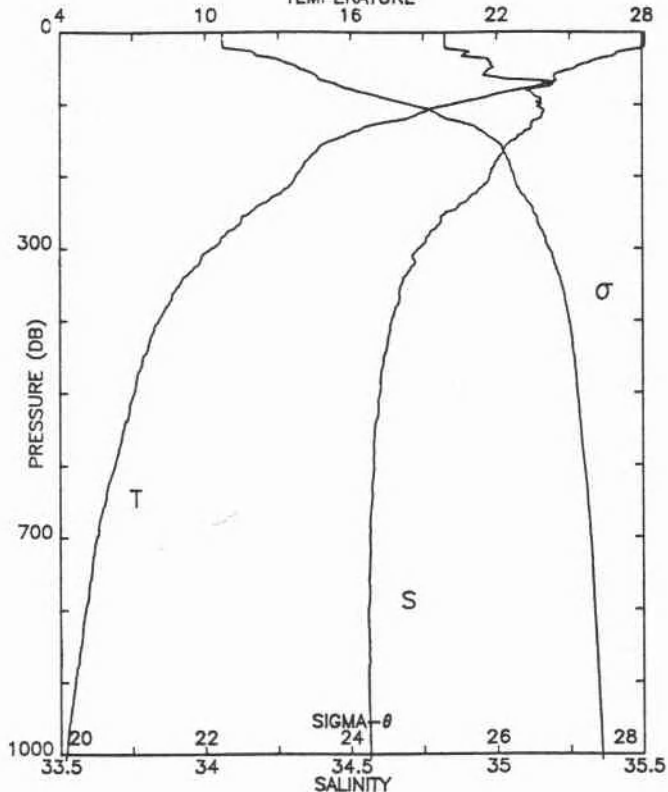
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.503	34.083	28.503	21.543	625.0	0.006
10	28.090	34.279	28.088	21.826	598.3	0.062
20	26.554	34.750	26.549	22.674	517.6	0.117
30	25.381	34.780	25.374	23.063	480.9	0.166
40	25.243	34.917	25.235	23.209	467.4	0.214
50	24.709	34.889	24.698	23.350	454.3	0.260
60	24.282	34.933	24.269	23.512	439.2	0.305
70	23.618	34.985	23.603	23.749	417.0	0.348
80	22.573	35.031	22.557	24.086	385.2	0.388
90	21.129	35.110	21.112	24.549	341.4	0.425
100	19.810	35.153	19.791	24.934	304.9	0.457
110	18.194	35.153	18.175	25.347	265.8	0.485
120	17.726	35.148	17.706	25.459	255.5	0.511
130	16.580	35.094	16.559	25.691	233.5	0.536
140	16.174	35.081	16.152	25.776	225.7	0.559
150	15.409	35.067	15.386	25.939	210.4	0.580
175	14.143	34.993	14.117	26.158	190.1	0.630
200	13.228	34.943	13.200	26.309	176.2	0.676
225	12.406	34.891	12.376	26.432	164.9	0.719
250	11.823	34.854	11.791	26.516	157.3	0.759
300	10.163	34.746	10.128	26.732	137.2	0.832
400	8.145	34.651	8.104	26.984	113.9	0.956
500	6.962	34.606	6.914	27.120	101.7	1.064
600	6.224	34.583	6.170	27.201	94.6	1.162
800	5.191	34.567	5.124	27.318	84.7	1.340
1000	4.461	34.578	4.381	27.410	76.7	1.502
1007	4.433	34.579	4.353	27.414	76.4	1.507

STA NO 42 B-7 LAT: 5 0.0 S LONG: 82 0.0 W
10 FEB 1983 0126 GMT PROBE 2561 DEPTH 5011M
103.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.796	34.264	28.796	21.582	621.2	0.006
10	28.677	34.304	28.675	21.652	615.0	0.062
20	28.173	34.542	28.169	21.998	582.3	0.122
30	26.966	34.883	26.959	22.645	520.9	0.178
40	25.738	34.964	25.729	23.092	478.5	0.227
50	24.762	34.969	24.751	23.395	450.0	0.274
60	24.445	34.973	24.432	23.494	441.0	0.318
70	23.528	35.065	23.514	23.836	408.8	0.361
80	22.181	35.099	22.165	24.248	369.7	0.400
90	20.809	35.146	20.792	24.663	330.5	0.435
100	19.961	35.161	19.943	24.901	308.1	0.467
110	18.517	35.142	18.498	25.258	274.4	0.496
120	17.558	35.134	17.538	25.489	252.6	0.522
130	16.420	35.121	16.399	25.750	227.9	0.546
140	15.455	35.055	15.433	25.919	212.0	0.568
150	14.441	34.996	14.419	26.096	195.3	0.589
175	13.692	34.957	13.667	26.224	183.7	0.636
200	13.276	34.947	13.248	26.302	176.8	0.681
225	12.594	34.900	12.564	26.403	167.7	0.724
250	12.130	34.874	12.097	26.473	161.5	0.765
300	10.844	34.794	10.807	26.650	145.3	0.842
400	8.186	34.652	8.145	26.979	114.5	0.969
500	7.139	34.611	7.091	27.100	103.8	1.079
600	6.203	34.580	6.149	27.201	94.6	1.177
800	5.144	34.564	5.078	27.321	84.3	1.355
1000	4.388	34.578	4.309	27.418	75.9	1.514
1005	4.364	34.577	4.285	27.420	75.6	1.518



TEMPERATURE



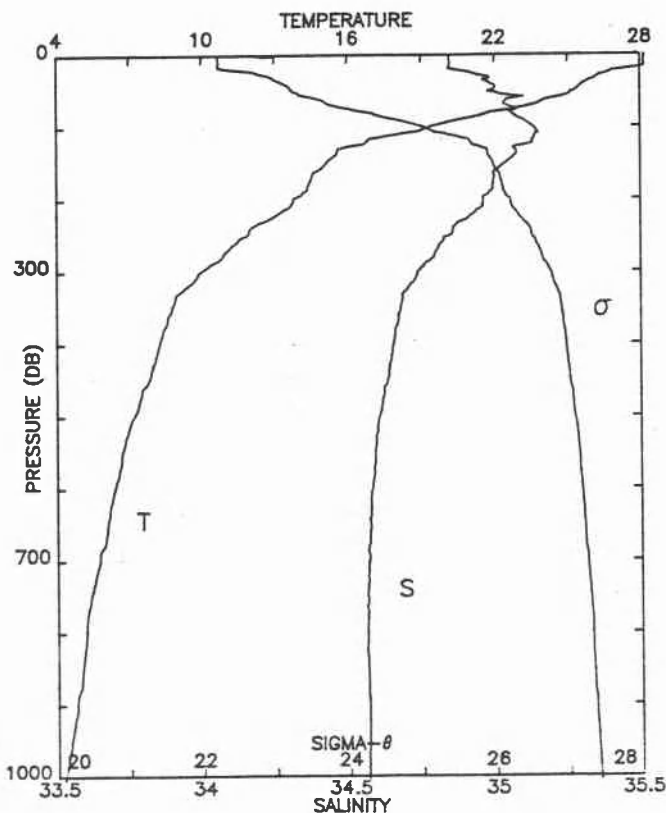
STATION 43 C-9

STA NO 43 C-9 LAT: 7 29.9 S LONG: 81 30.0 W
 12 FEB 1983 0819 GMT PROBE 2561 DEPTH 5772M
 182.0 KM FROM SHORE

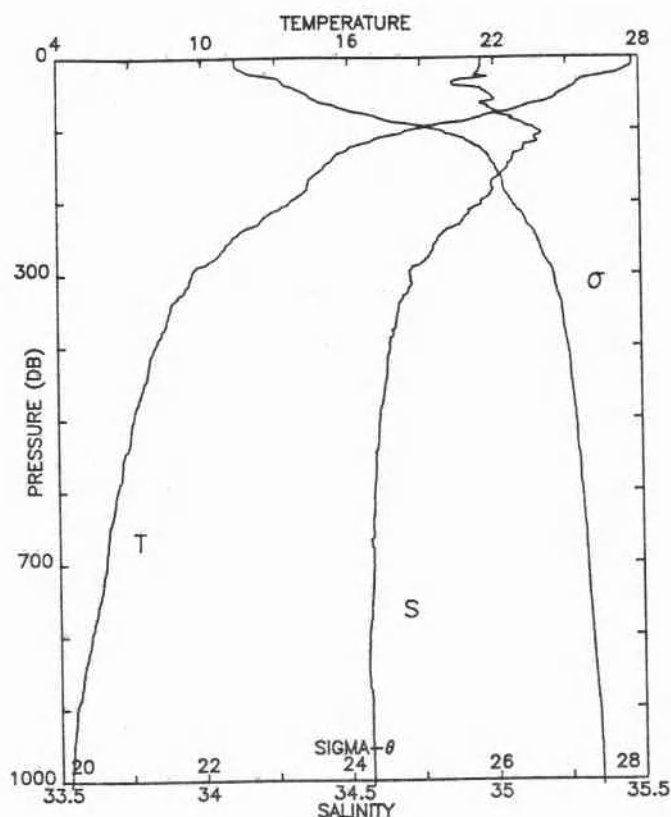
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.109	34.824	28.109	22.229	559.3	0.006
10	28.112	34.823	28.110	22.228	559.8	0.056
20	28.091	34.824	28.087	22.236	559.5	0.112
30	26.887	34.892	26.880	22.677	517.8	0.166
40	25.908	34.975	25.899	23.048	482.8	0.216
50	25.165	34.983	25.154	23.283	460.7	0.263
60	24.338	34.966	24.325	23.521	438.4	0.308
70	24.102	35.185	24.088	23.757	416.3	0.351
80	22.855	35.106	22.839	24.062	387.6	0.391
90	21.532	35.140	21.514	24.461	349.8	0.428
100	20.130	35.150	20.111	24.848	313.2	0.461
110	18.997	35.160	18.977	25.150	284.7	0.491
120	18.151	35.144	18.130	25.351	265.8	0.518
130	16.643	35.116	16.622	25.694	233.3	0.543
140	15.896	35.088	15.874	25.845	219.2	0.566
150	15.186	35.055	15.163	25.979	206.5	0.587
175	14.261	35.005	14.236	26.142	191.6	0.637
200	13.710	34.976	13.681	26.236	183.3	0.683
225	12.961	34.918	12.930	26.344	173.5	0.728
250	11.814	34.826	11.781	26.496	159.2	0.769
300	10.214	34.731	10.179	26.712	139.1	0.844
400	8.070	34.640	8.029	26.987	113.6	0.968
500	7.073	34.601	7.025	27.101	103.6	1.076
600	6.256	34.580	6.202	27.195	95.3	1.175
800	5.046	34.559	4.980	27.328	83.4	1.352
1000	4.232	34.566	4.154	27.425	74.8	1.510
1007	4.201	34.566	4.123	27.428	74.5	1.515

STA NO 44 C-8 LAT: 7 19.9 S LONG: 81 13.1 W
 12 FEB 1983 1102 GMT PROBE 2561 DEPTH 3816M
 146.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	28.182	34.846	28.182	22.222	560.0	0.006
10	28.140	34.848	28.138	22.238	558.9	0.056
20	27.628	34.855	27.624	22.410	542.9	0.112
30	26.245	34.964	26.238	22.934	493.2	0.163
40	25.674	34.984	25.666	23.127	475.2	0.211
50	25.293	34.987	25.282	23.247	464.1	0.258
60	24.572	35.085	24.559	23.541	436.5	0.304
70	23.614	35.037	23.599	23.789	413.2	0.346
80	21.978	35.055	21.962	24.272	367.5	0.385
90	20.644	35.095	20.627	24.668	330.0	0.420
100	19.398	35.131	19.380	25.025	296.2	0.451
110	18.200	35.143	18.181	25.338	266.7	0.480
120	16.804	35.128	16.784	25.665	235.7	0.504
130	15.741	35.065	15.720	25.862	217.1	0.527
140	15.489	35.067	15.468	25.921	211.8	0.549
150	15.140	35.038	15.117	25.977	206.8	0.570
175	14.453	34.994	14.427	26.092	196.4	0.620
200	13.768	34.960	13.740	26.211	185.6	0.668
225	12.900	34.911	12.869	26.351	172.8	0.713
250	11.855	34.847	11.823	26.505	158.4	0.754
300	9.969	34.738	9.935	26.759	134.5	0.827
400	8.246	34.654	8.205	26.971	115.2	0.949
500	7.194	34.606	7.145	27.088	104.9	1.060
600	6.381	34.581	6.326	27.179	96.9	1.160
800	5.176	34.561	5.109	27.315	84.9	1.341
1000	4.300	34.564	4.222	27.416	75.8	1.503
1005	4.258	34.565	4.180	27.421	75.3	1.506



STATION 44 C-8



STATION 45 C-7

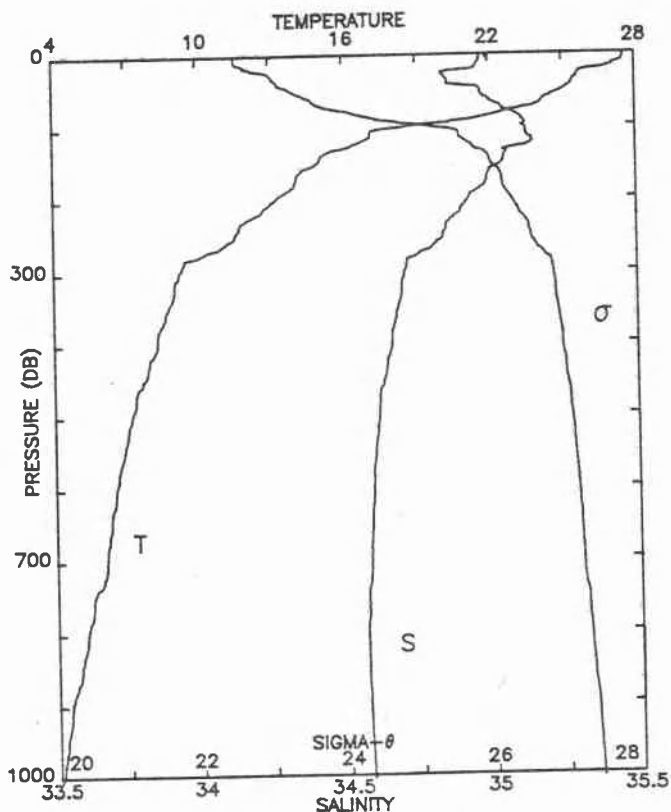
STA NO 46 C-6 LAT: 7 10.0 S LONG: 80 55.0 W
12 FEB 1983 1517 GMT PROBE 2561 DEPTH 1223M
108.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.539	34.970	27.539	22.524	531.1	0.005
10	27.475	34.967	27.473	22.544	529.6	0.053
20	26.774	34.946	26.770	22.752	510.1	0.105
30	25.632	34.849	25.625	23.037	483.3	0.154
40	25.390	34.859	25.381	23.120	475.9	0.202
50	25.035	34.971	25.024	23.314	457.8	0.249
60	24.398	34.990	24.385	23.521	438.4	0.294
70	23.993	35.032	23.978	23.674	424.3	0.337
80	22.647	35.071	22.631	24.095	384.4	0.378
90	21.359	35.112	21.342	24.487	347.3	0.414
100	18.598	35.115	18.581	25.216	277.9	0.446
110	17.122	35.127	17.104	25.588	242.8	0.471
120	16.803	35.146	16.783	25.679	234.4	0.495
130	16.065	35.078	16.044	25.798	223.3	0.518
140	15.145	35.051	15.124	25.985	205.7	0.539
150	14.961	35.042	14.938	26.019	202.7	0.559
175	14.061	34.989	14.036	26.172	188.7	0.608
200	13.244	34.926	13.216	26.293	177.7	0.654
225	12.245	34.876	12.215	26.452	162.9	0.697
250	11.548	34.837	11.516	26.554	153.6	0.736
300	9.214	34.703	9.181	26.857	124.8	0.805
400	8.281	34.658	8.239	26.970	115.4	0.925
500	7.193	34.612	7.145	27.093	104.5	1.034
600	6.498	34.589	6.443	27.171	97.9	1.136
800	5.217	34.562	5.150	27.310	85.4	1.321
1000	4.121	34.575	4.044	27.444	72.7	1.479
1005	4.074	34.576	3.997	27.450	72.1	1.482

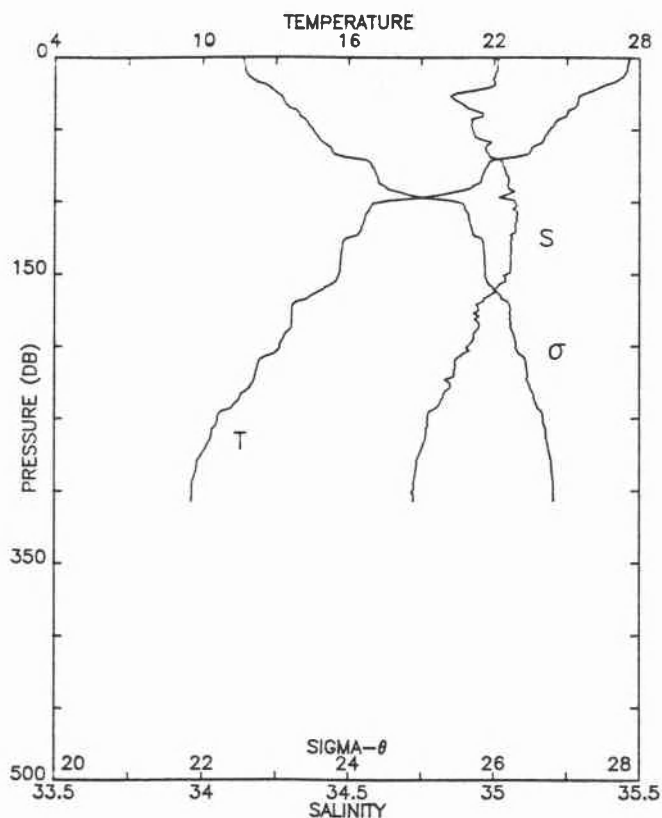
LIN INT SAL 103-111DB
LIN INT SAL 687-693DB

STA NO 45 C-7 LAT: 7 15.0 S LONG: 81 4.0 W
12 FEB 1983 1317 GMT PROBE 2561 DEPTH 2993M
127.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.711	34.956	27.711	22.458	537.4	0.005
10	27.706	34.956	27.704	22.460	537.6	0.054
20	27.253	34.947	27.249	22.600	524.7	0.107
30	25.772	34.913	25.765	23.042	482.8	0.158
40	25.324	34.900	25.315	23.171	471.0	0.205
50	24.739	34.982	24.728	23.412	448.4	0.251
60	24.274	34.996	24.261	23.563	434.4	0.295
70	23.107	34.984	23.093	23.896	402.9	0.337
80	21.693	35.029	21.677	24.332	361.7	0.376
90	20.413	35.094	20.396	24.729	324.1	0.410
100	18.590	35.147	18.572	25.243	275.4	0.440
110	17.408	35.142	17.389	25.531	248.2	0.466
120	16.512	35.121	16.492	25.727	229.7	0.490
130	15.852	35.096	15.831	25.861	217.3	0.512
140	15.362	35.063	15.340	25.946	209.4	0.534
150	15.009	35.045	14.986	26.011	203.5	0.554
175	14.321	34.988	14.296	26.116	194.1	0.604
200	13.576	34.954	13.548	26.246	182.2	0.651
225	12.414	34.890	12.384	26.430	165.0	0.694
250	11.234	34.806	11.203	26.588	150.2	0.734
300	9.545	34.710	9.511	26.808	129.6	0.804
400	8.000	34.641	7.959	26.998	112.5	0.924
500	7.100	34.604	7.052	27.100	103.7	1.032
600	6.394	34.584	6.339	27.180	96.9	1.133
800	5.275	34.560	5.207	27.303	86.3	1.317
1000	4.406	34.571	4.328	27.410	76.6	1.477
1007	4.375	34.571	4.295	27.414	76.2	1.483



STATION 46 C-6

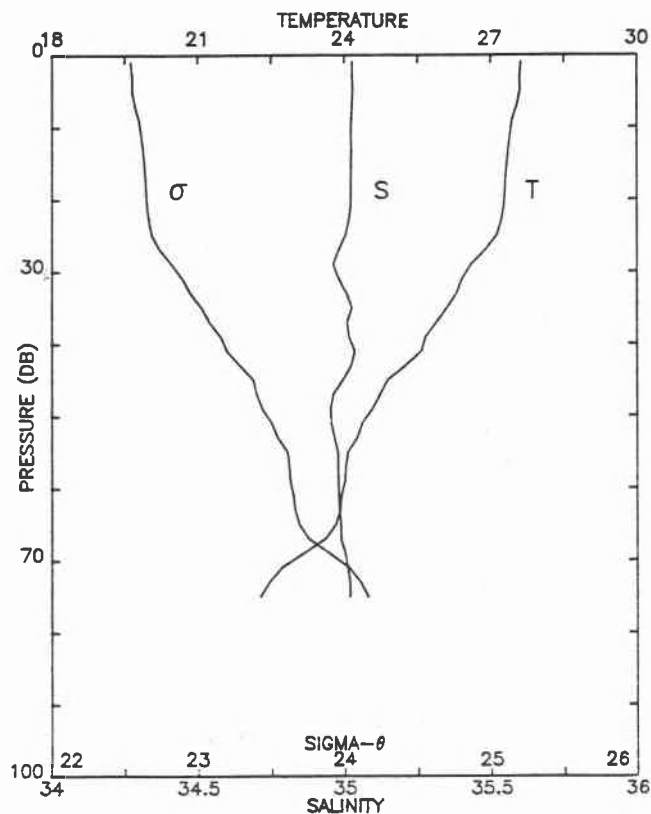


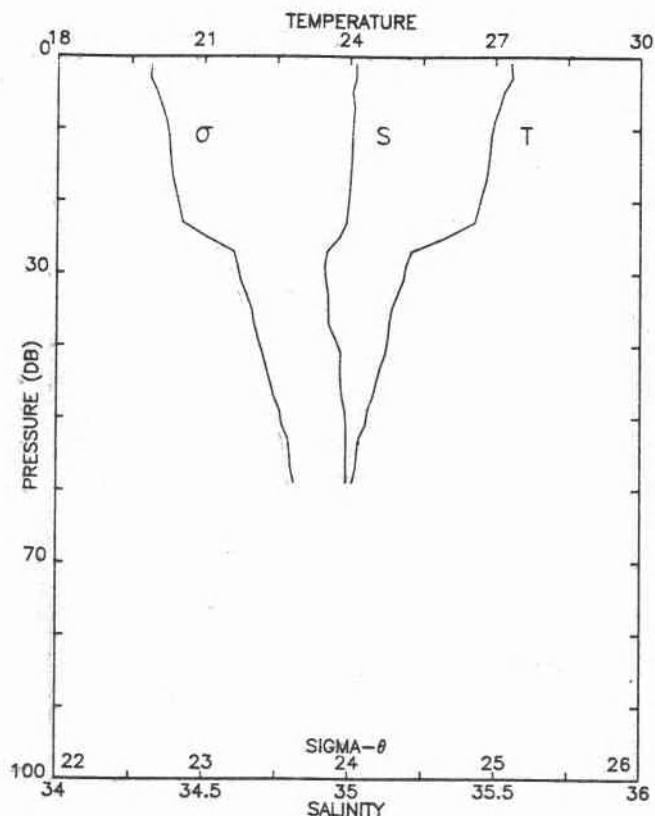
STA NO 47 C-5 LAT: 7 5.0 S LONG: 80 46.0 W
 12 FEB 1983 1727 GMT PROBE 2561 DEPTH 317M
 89.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.571	35.014	27.571	22.547	528.9	0.005
10	27.447	35.007	27.445	22.583	525.9	0.053
20	26.469	34.993	26.464	22.885	497.4	0.104
30	25.465	34.870	25.458	23.105	476.8	0.153
40	24.972	34.962	24.964	23.325	456.2	0.200
50	24.289	34.926	24.278	23.504	439.6	0.244
60	23.844	34.984	23.831	23.681	423.1	0.288
70	22.453	35.002	22.439	24.096	383.8	0.329
80	21.567	35.041	21.552	24.375	357.6	0.365
90	21.061	35.048	21.044	24.520	344.1	0.400
100	17.344	35.071	17.327	25.491	251.6	0.431
110	16.680	35.078	16.662	25.655	236.3	0.455
120	16.475	35.073	16.456	25.700	232.4	0.479
130	15.743	35.058	15.723	25.856	217.7	0.501
140	15.664	35.057	15.642	25.874	216.3	0.523
150	15.590	35.044	15.566	25.881	216.0	0.544
175	13.659	34.947	13.635	26.223	183.8	0.594
200	13.152	34.909	13.125	26.298	177.2	0.640
225	12.033	34.847	12.004	26.470	161.1	0.681
250	10.609	34.772	10.579	26.673	141.8	0.719
300	9.569	34.721	9.535	26.812	129.2	0.786
307	9.542	34.724	9.507	26.819	128.7	0.795

STA NO 48 C-4 LAT: 7 0.0 S LONG: 80 38.0 W
 12 FEB 1983 1818 GMT PROBE 2561 DEPTH 76M
 72.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.621	35.027	27.621	22.541	529.5	0.005
10	27.415	35.023	27.412	22.605	523.7	0.053
20	27.272	35.021	27.267	22.650	519.9	0.105
30	26.493	34.971	26.486	22.861	500.2	0.156
40	25.611	35.026	25.602	23.178	470.3	0.205
50	24.463	34.953	24.453	23.472	442.6	0.250
60	23.968	34.979	23.956	23.640	427.0	0.293
70	22.935	35.006	22.920	23.963	396.6	0.335
75	22.273	35.019	22.258	24.161	377.9	0.355





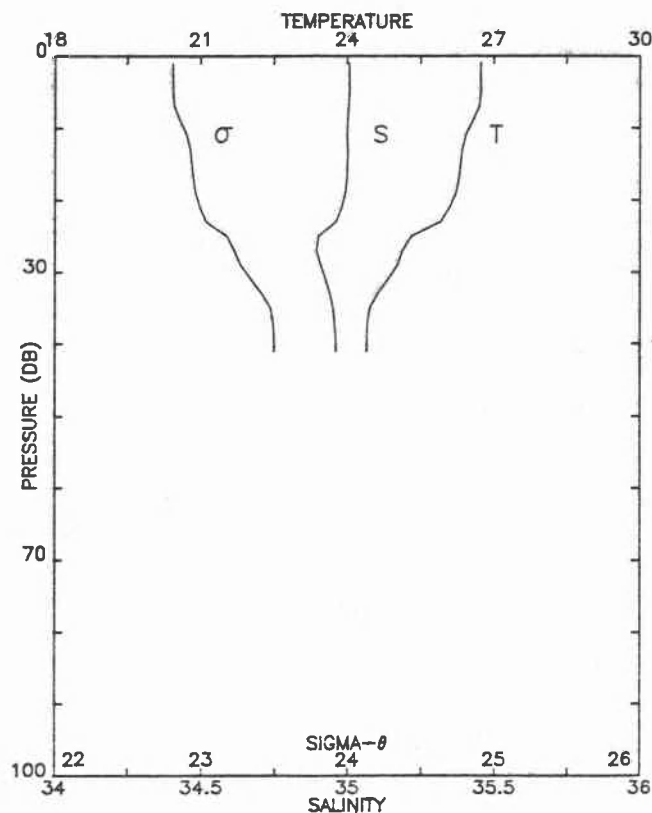
STATION 49 C-3

STA NO 49 C-3 LAT: 6 55.0 S LONG: 80 29.0 W
 12 FEB 1983 2050 GMT PROBE 2561 DEPTH 63M
 53.1 KM FROM SHORE

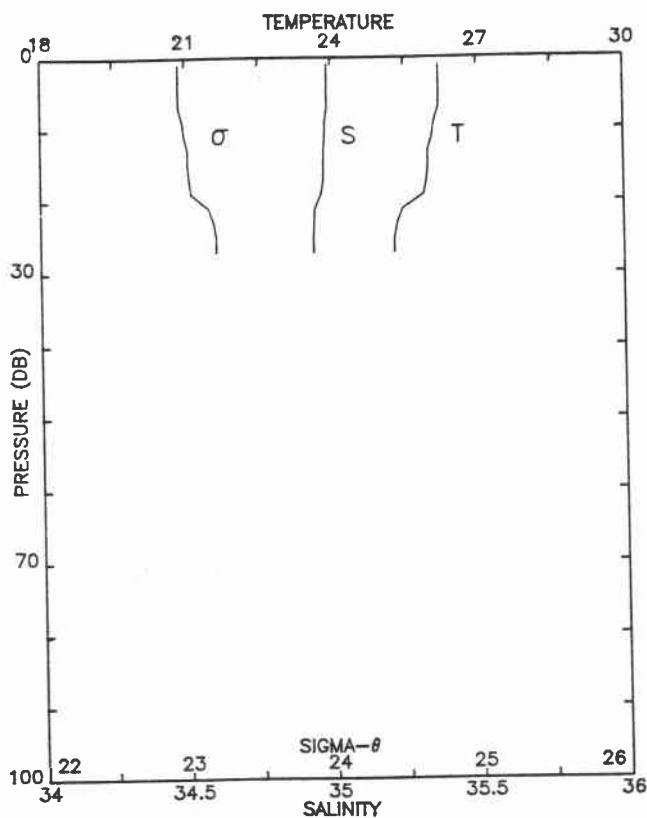
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.317	35.019	27.317	22.633	520.7	0.005
10	26.931	35.008	26.928	22.749	510.0	0.052
20	26.675	34.995	26.670	22.821	503.5	0.102
30	25.130	34.916	25.124	23.242	463.7	0.151
40	24.765	34.962	24.757	23.388	450.2	0.196
50	24.355	34.988	24.344	23.531	437.0	0.241
59	24.063	34.991	24.050	23.621	428.8	0.280

STA NO 50 C-2 LAT: 6 49.9 S LONG: 80 20.2 W
 12 FEB 1983 2211 GMT PROBE 2561 DEPTH 45M
 34.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.732	35.006	26.732	22.810	503.8	0.005
10	26.489	34.999	26.487	22.882	497.3	0.050
20	26.148	34.986	26.144	22.980	488.3	0.099
30	24.924	34.918	24.917	23.306	457.6	0.147
40	24.393	34.962	24.385	23.499	439.6	0.191
41	24.393	34.962	24.384	23.500	439.6	0.196



STATION 50 C-2



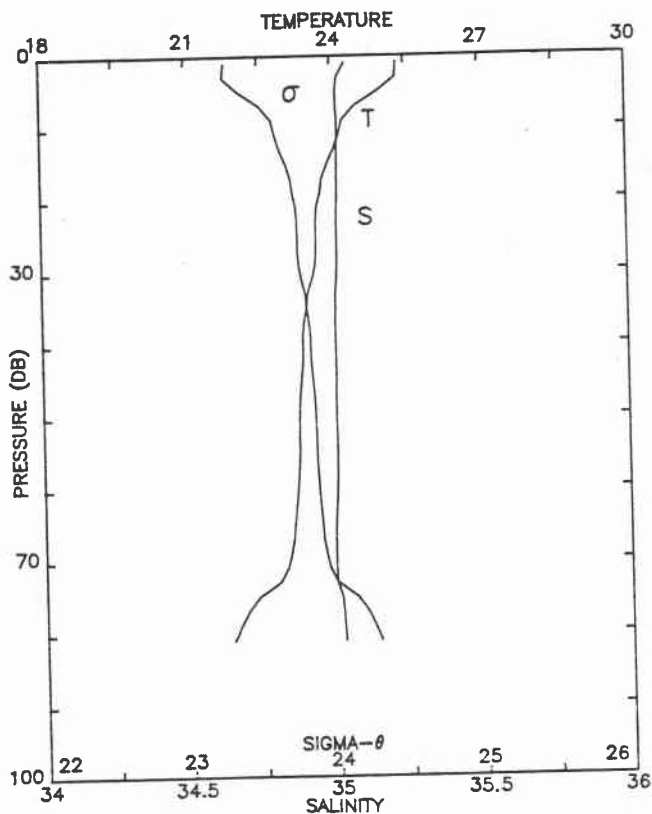
STATION 51 C-1

STA NO 51 C-1 LAT: 6 45.6 S LONG: 80 11.4 W
 13 FEB 1983 0008 GMT PROBE 2561 DEPTH 30M
 16.5 KM FROM SHORE

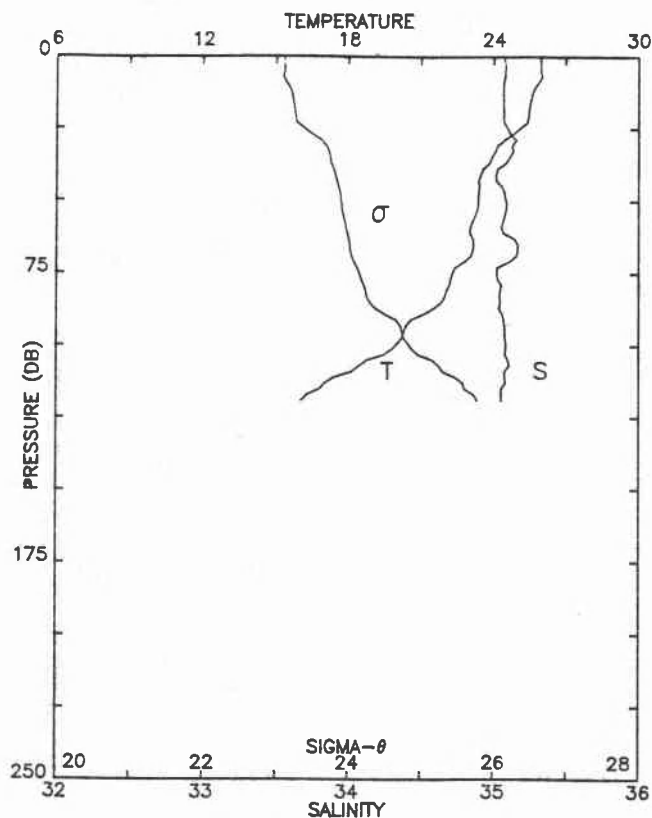
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.227	34.988	26.227	22.955	489.8	0.005
10	26.101	34.979	26.099	22.989	487.0	0.049
20	25.686	34.954	25.682	23.099	477.0	0.097
27	25.291	34.938	25.285	23.209	466.8	0.130

STA NO 52 D-1 LAT: 9 40.0 S LONG: 78 24.0 W
 13 FEB 1983 1928 GMT PROBE 2561 DEPTH 85M
 6.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.349	35.049	25.349	23.274	459.4	0.005
10	24.191	35.021	24.188	23.603	428.4	0.045
20	23.713	35.015	23.709	23.740	415.7	0.087
30	23.590	35.011	23.584	23.773	413.0	0.128
40	23.349	35.004	23.341	23.839	407.1	0.169
50	23.255	35.003	23.245	23.867	404.9	0.210
60	23.197	35.001	23.184	23.883	403.8	0.250
70	22.998	34.993	22.983	23.935	399.3	0.291
80	21.913	35.020	21.897	24.263	368.3	0.329
81	21.847	35.022	21.831	24.283	366.4	0.333



STATION 52 D-1

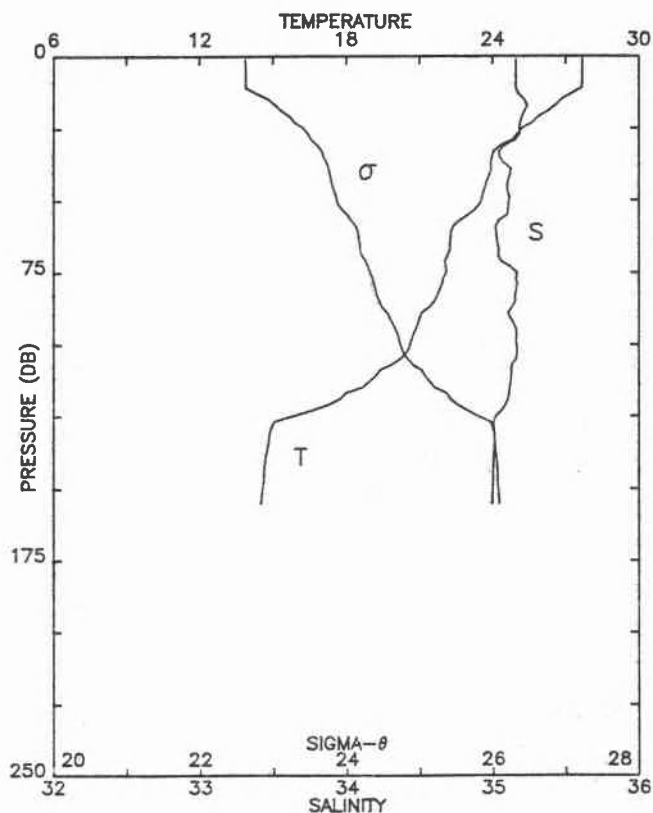


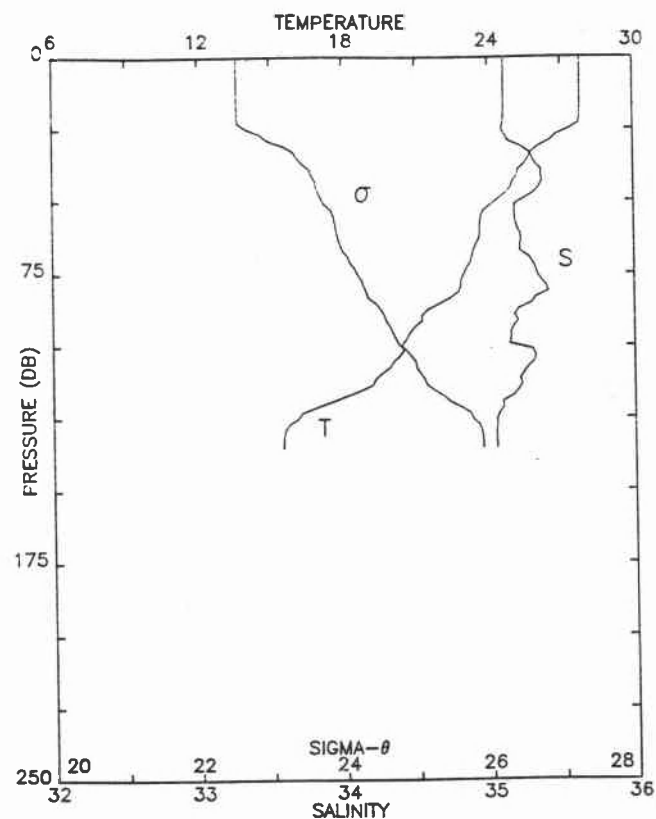
STA NO 53 D-2 LAT: 9 45.0 S LONG: 78 33.0 W
 13 FEB 1983 2135 GMT PROBE 2561 DEPTH 127M
 25.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.935	35.075	25.935	23.112	474.8	0.005
10	25.772	35.068	25.770	23.158	470.9	0.047
20	25.438	35.068	25.433	23.262	461.4	0.094
30	24.314	35.143	24.307	23.660	423.8	0.139
40	23.497	35.021	23.489	23.809	410.0	0.180
50	23.355	35.086	23.344	23.901	401.7	0.221
60	23.019	35.059	23.007	23.978	394.7	0.261
70	22.911	35.134	22.897	24.066	386.7	0.300
80	22.107	35.048	22.091	24.230	371.4	0.338
90	20.864	35.065	20.847	24.586	337.8	0.374
100	19.945	35.085	19.926	24.847	313.2	0.406
110	17.772	35.077	17.754	25.392	261.4	0.435
119	16.072	35.052	16.054	25.777	224.9	0.456

STA NO 54 D-3 LAT: 9 50.0 S LONG: 78 42.0 W
 14 FEB 1983 0012 GMT PROBE 2561 DEPTH 159M
 44.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.683	35.159	27.683	22.619	521.9	0.005
10	27.675	35.159	27.672	22.623	522.0	0.052
20	26.053	35.208	26.048	23.177	469.5	0.102
30	24.550	35.115	24.544	23.568	432.6	0.147
40	23.890	35.120	23.882	23.769	413.9	0.189
50	23.514	35.110	23.504	23.872	404.4	0.230
60	22.327	35.019	22.315	24.145	378.7	0.269
70	22.081	35.045	22.067	24.234	370.6	0.306
80	21.857	35.163	21.842	24.387	356.5	0.343
90	21.029	35.112	21.011	24.577	338.7	0.378
100	20.588	35.162	20.569	24.735	324.0	0.411
110	19.273	35.124	19.253	25.052	294.0	0.442
120	17.515	35.093	17.495	25.467	254.6	0.469
130	14.877	35.006	14.857	26.009	203.0	0.492
140	14.659	35.002	14.638	26.053	199.1	0.512
150	14.536	34.995	14.514	26.075	197.3	0.532
155	14.468	34.993	14.446	26.088	196.2	0.542



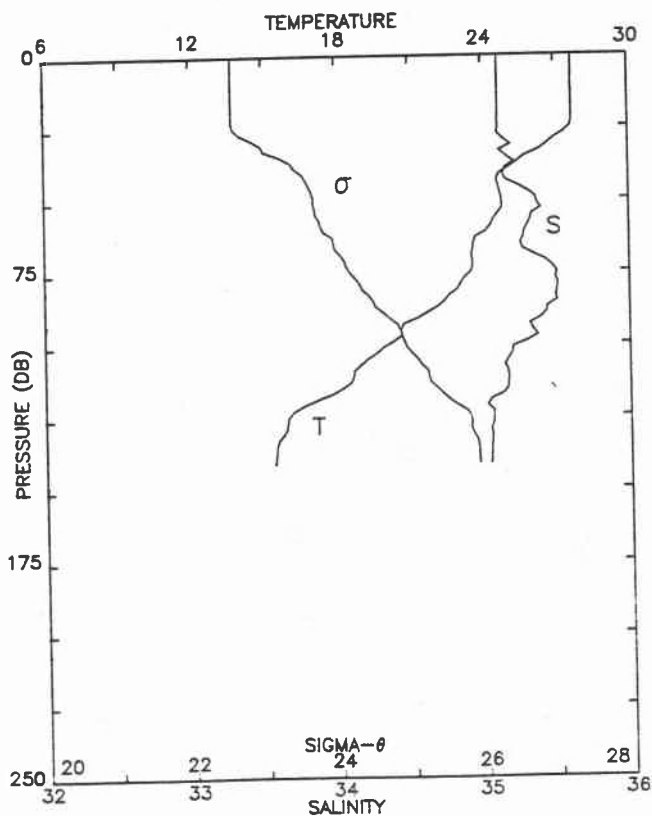


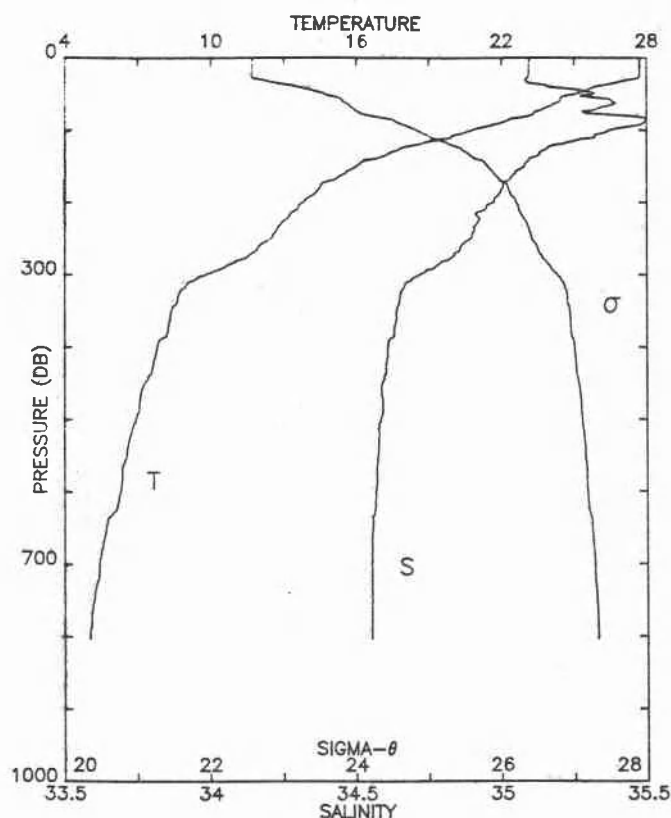
STA NO 55 D-4 LAT: 9 54.9 S LONG: 78 52.7 W
 14 FEB 1983 0201 GMT PROBE 2561 DEPTH 143M
 65.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.804	35.111	27.804	22.544	529.1	0.005
10	27.806	35.111	27.804	22.544	529.6	0.053
20	27.783	35.108	27.778	22.550	529.5	0.106
30	26.308	35.183	26.301	23.079	479.3	0.157
40	25.190	35.363	25.182	23.562	433.7	0.202
50	24.261	35.209	24.250	23.727	418.3	0.245
60	23.628	35.205	23.615	23.911	401.1	0.286
70	23.258	35.286	23.244	24.082	385.3	0.325
80	22.793	35.400	22.776	24.303	364.6	0.362
90	21.224	35.183	21.207	24.578	338.6	0.398
100	20.451	35.215	20.432	24.813	316.6	0.431
110	19.442	35.220	19.422	25.082	291.2	0.461
120	17.204	35.090	17.184	25.540	247.7	0.488
130	15.537	35.040	15.517	25.889	214.5	0.511
135	15.487	35.045	15.466	25.904	213.3	0.521

STA NO 56 D-5 LAT: 10 0.0 S LONG: 79 0.0 W
 14 FEB 1983 0349 GMT PROBE 2561 DEPTH 149M
 82.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.705	35.115	27.704	22.580	525.7	0.005
10	27.707	35.114	27.705	22.579	526.2	0.053
20	27.712	35.115	27.708	22.578	526.8	0.105
30	26.820	35.174	26.813	22.910	495.5	0.157
40	24.889	35.151	24.881	23.493	440.2	0.204
50	24.793	35.370	24.783	23.689	422.0	0.247
60	24.207	35.293	24.194	23.807	411.1	0.288
70	23.531	35.389	23.517	24.080	385.5	0.328
80	22.986	35.509	22.970	24.330	362.1	0.366
90	21.493	35.411	21.475	24.678	329.2	0.400
100	20.090	35.250	20.072	24.934	305.0	0.432
110	18.663	35.165	18.644	25.238	276.2	0.461
120	16.847	35.032	16.827	25.580	243.8	0.487
130	15.804	35.047	15.783	25.834	219.8	0.510
140	15.396	35.041	15.374	25.922	211.7	0.531
141	15.380	35.040	15.358	25.925	211.5	0.533





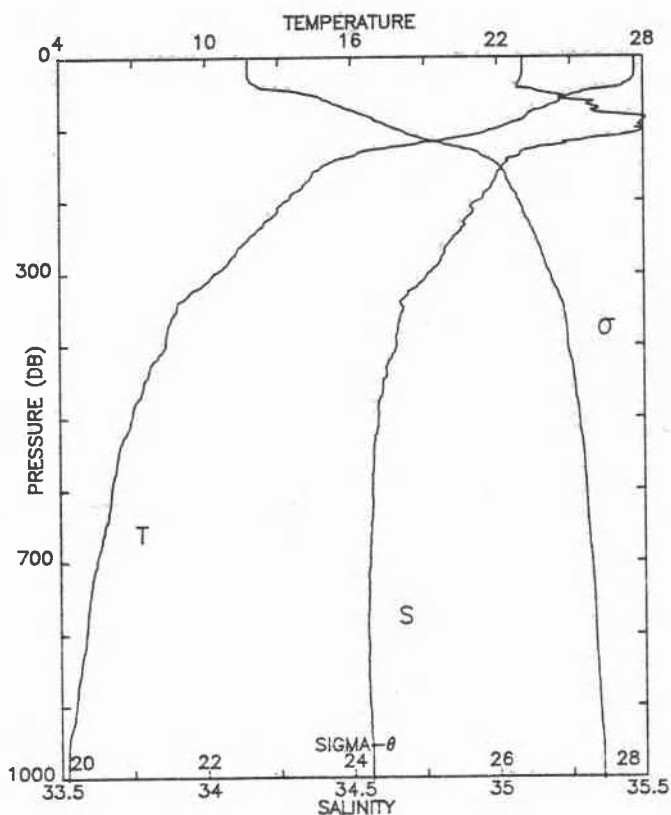
STATION 57 D-6

STA NO 57 D-6 LAT: 10 5.0 S LONG: 79 8.9 W
14 FEB 1983 0527 GMT PROBE 2561 DEPTH 817M
101.0 KM FROM SHORE

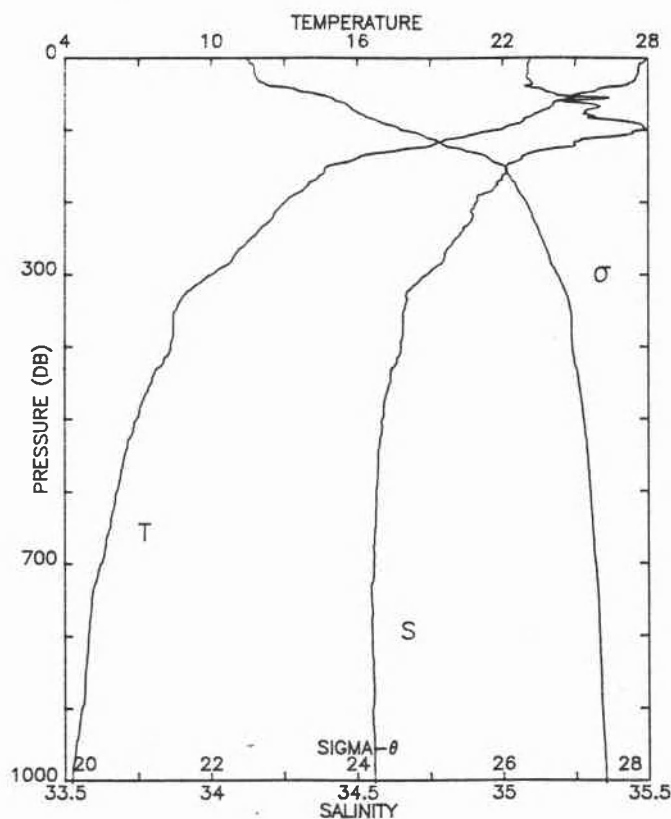
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.691	35.095	27.691	22.569	526.8	0.005
10	27.708	35.094	27.706	22.564	527.7	0.053
20	27.707	35.094	27.702	22.564	528.1	0.106
30	27.385	35.083	27.378	22.661	519.4	0.158
40	25.929	35.160	25.920	23.181	470.1	0.208
50	25.091	35.318	25.081	23.559	434.4	0.253
60	24.409	35.380	24.396	23.813	410.6	0.295
70	23.811	35.335	23.796	23.957	397.2	0.335
80	23.224	35.415	23.207	24.190	375.4	0.374
90	22.007	35.488	21.989	24.593	337.3	0.409
100	20.795	35.377	20.776	24.843	313.8	0.442
110	19.906	35.320	19.886	25.037	295.6	0.472
120	18.482	35.199	18.461	25.311	269.7	0.501
130	17.465	35.135	17.444	25.513	250.7	0.526
140	16.639	35.095	16.617	25.679	235.1	0.551
150	16.002	35.078	15.978	25.813	222.5	0.574
175	14.546	35.005	14.520	26.081	197.5	0.626
200	13.810	34.967	13.781	26.208	185.9	0.675
225	13.030	34.922	12.999	26.333	174.5	0.720
250	12.464	34.890	12.431	26.421	166.6	0.762
300	9.817	34.715	9.782	26.767	133.7	0.838
400	7.795	34.609	7.755	27.003	111.8	0.958
500	6.920	34.585	6.873	27.110	102.6	1.065
600	6.293	34.567	6.239	27.180	96.7	1.164
800	5.041	34.554	4.975	27.325	83.7	1.340
803	5.051	34.554	4.985	27.324	83.9	1.343

STA NO 58 D-7 LAT: 10 10.0 S LONG: 79 17.9 W
14 FEB 1983 0717 GMT PROBE 2561 DEPTH 1670M
119.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.641	35.087	27.641	22.579	525.8	0.005
10	27.645	35.087	27.642	22.579	526.3	0.053
20	27.646	35.087	27.641	22.579	526.7	0.105
30	27.583	35.081	27.576	22.596	525.6	0.158
40	27.184	35.069	27.174	22.716	514.6	0.210
50	25.464	35.162	25.453	23.327	456.5	0.259
60	24.606	35.236	24.593	23.644	426.7	0.303
70	24.029	35.334	24.015	23.892	403.5	0.344
80	23.258	35.385	23.241	24.157	378.6	0.383
90	22.800	35.497	22.782	24.375	358.2	0.420
100	21.986	35.499	21.966	24.608	336.3	0.455
110	20.861	35.427	20.840	24.864	312.2	0.487
120	18.805	35.231	18.784	25.254	275.1	0.517
130	16.652	35.094	16.631	25.674	235.1	0.542
140	15.733	35.052	15.711	25.854	218.2	0.565
150	14.933	35.022	14.910	26.010	203.6	0.586
175	14.115	34.984	14.089	26.156	190.2	0.635
200	13.300	34.934	13.272	26.287	178.2	0.681
225	12.581	34.891	12.551	26.398	168.2	0.724
250	11.772	34.849	11.740	26.521	156.8	0.765
300	10.335	34.760	10.300	26.714	139.0	0.839
400	8.338	34.652	8.296	26.956	116.7	0.963
500	6.934	34.588	6.887	27.110	102.6	1.072
600	6.108	34.567	6.054	27.204	94.3	1.169
800	5.039	34.549	4.973	27.321	84.1	1.346
1000	4.255	34.563	4.177	27.420	75.3	1.505
1003	4.251	34.563	4.173	27.421	75.3	1.507



STATION 58 D-7



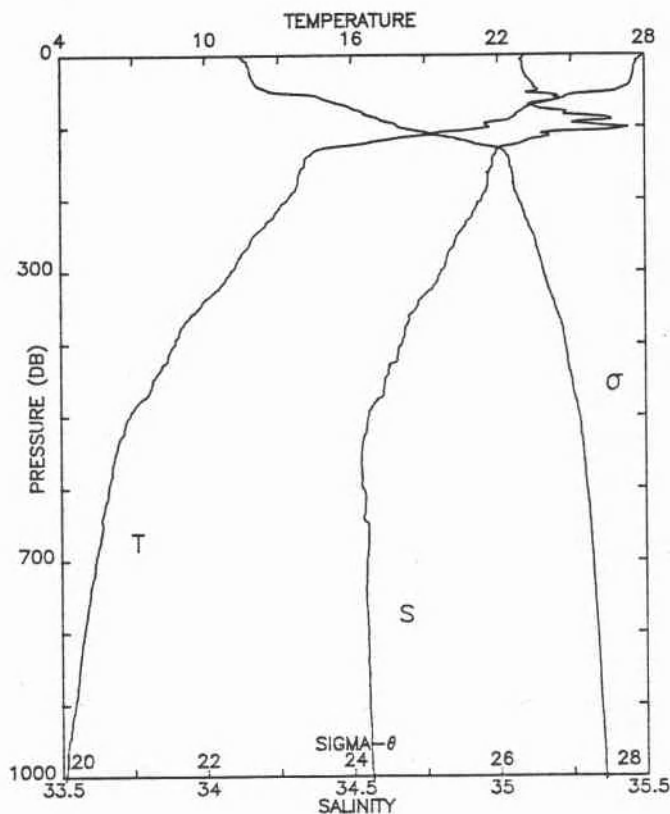
STATION 59 D-7

STA NO 59 D-7 LAT: 10 10.0 S LONG: 79 17.9 W
 14 FEB 1983 1910 GMT PROBE 2561 DEPTH 1656M
 119.0 KM FROM SHORE

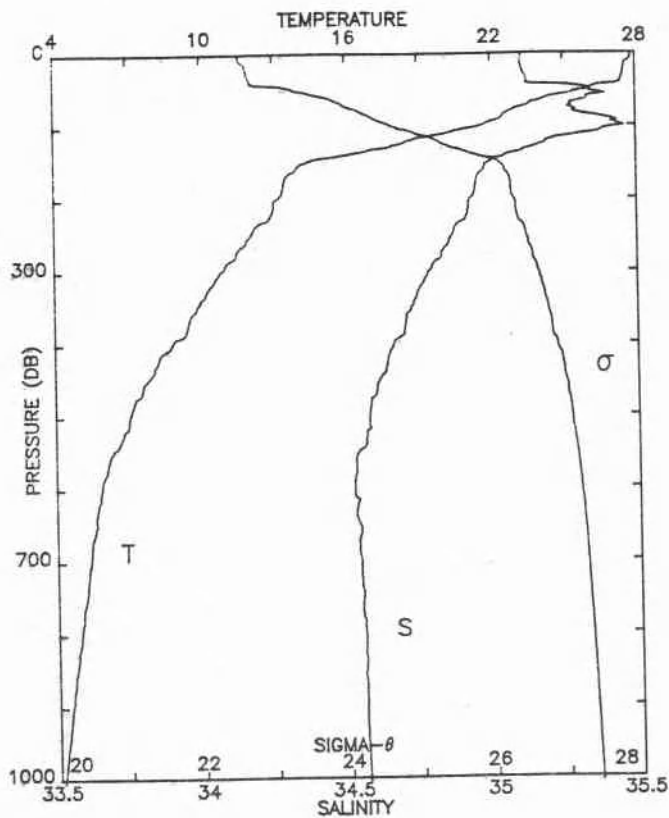
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.899	35.092	27.899	22.499	533.4	0.005
10	27.639	35.085	27.636	22.579	526.2	0.053
20	27.600	35.086	27.595	22.593	525.4	0.106
30	27.476	35.090	27.469	22.637	521.7	0.158
40	26.609	35.090	26.600	22.914	495.6	0.209
50	25.149	35.183	25.138	23.439	445.8	0.256
60	24.260	35.218	24.247	23.735	418.0	0.299
70	23.888	35.317	23.873	23.920	400.7	0.340
80	23.223	35.307	23.207	24.108	383.2	0.379
90	22.729	35.460	22.711	24.368	358.9	0.416
100	21.751	35.476	21.731	24.656	331.7	0.451
110	20.274	35.348	20.254	24.961	302.9	0.482
120	19.109	35.247	19.088	25.189	281.4	0.511
130	17.213	35.117	17.191	25.559	246.2	0.538
140	15.912	35.064	15.890	25.823	221.2	0.561
150	14.839	35.012	14.816	26.022	202.3	0.582
175	14.010	34.982	13.984	26.177	188.2	0.631
200	13.035	34.909	13.008	26.321	174.9	0.677
225	12.432	34.894	12.402	26.429	165.1	0.719
250	11.625	34.838	11.593	26.540	154.9	0.759
300	9.999	34.736	9.964	26.752	135.2	0.832
400	8.329	34.650	8.287	26.956	116.8	0.953
500	6.928	34.586	6.881	27.110	102.6	1.062
600	6.105	34.565	6.052	27.203	94.4	1.160
800	4.964	34.552	4.899	27.332	82.9	1.336
1000	4.297	34.560	4.219	27.414	76.0	1.496
1003	4.292	34.561	4.213	27.415	75.9	1.498

STA NO 60 D-8 LAT: 10 15.0 S LONG: 79 27.0 W
 14 FEB 1983 2102 GMT PROBE 2561 DEPTH 2105M
 138.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.933	35.089	27.932	22.486	534.7	0.005
10	27.648	35.085	27.646	22.576	526.5	0.053
20	27.554	35.087	27.549	22.609	523.9	0.106
30	27.504	35.097	27.497	22.633	522.0	0.158
40	27.393	35.119	27.384	22.687	517.4	0.210
50	26.864	35.136	26.852	22.869	500.4	0.261
60	24.734	35.203	24.721	23.581	432.8	0.307
70	23.427	35.113	23.412	23.901	402.5	0.349
80	22.875	35.232	22.859	24.152	379.0	0.388
90	22.468	35.388	22.450	24.387	357.0	0.425
100	21.621	35.407	21.602	24.640	333.2	0.459
110	19.259	35.161	19.239	25.084	291.0	0.490
120	16.989	35.096	16.969	25.596	242.3	0.517
130	14.750	35.002	14.731	26.033	200.7	0.539
140	14.210	34.984	14.190	26.136	191.1	0.559
150	14.056	34.980	14.035	26.165	188.6	0.577
175	13.780	34.965	13.755	26.212	184.8	0.624
200	13.364	34.943	13.336	26.281	178.9	0.670
225	12.777	34.908	12.746	26.373	170.6	0.713
250	11.981	34.859	11.948	26.490	159.8	0.754
300	11.048	34.803	11.011	26.621	148.2	0.831
400	8.722	34.668	8.679	26.909	121.5	0.965
500	6.847	34.555	6.800	27.096	103.8	1.078
600	5.948	34.534	5.896	27.197	94.6	1.177
800	4.917	34.549	4.851	27.335	82.5	1.353
1000	4.135	34.563	4.058	27.432	73.8	1.509
1005	4.114	34.563	4.037	27.434	73.6	1.513



STATION 60 D-8



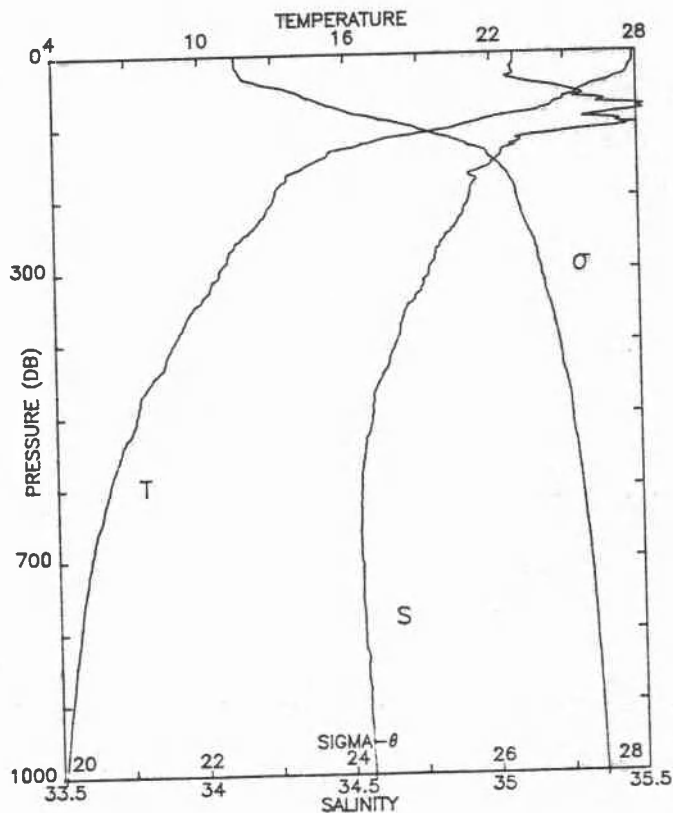
STATION 61 D-9

STA NO 61 D-9 LAT: 10 20.0 S LONG: 79 36.0 W
14 FEB 1983 2252 GMT PROBE 2561 DEPTH 3211M
157.0 KM FROM SHORE

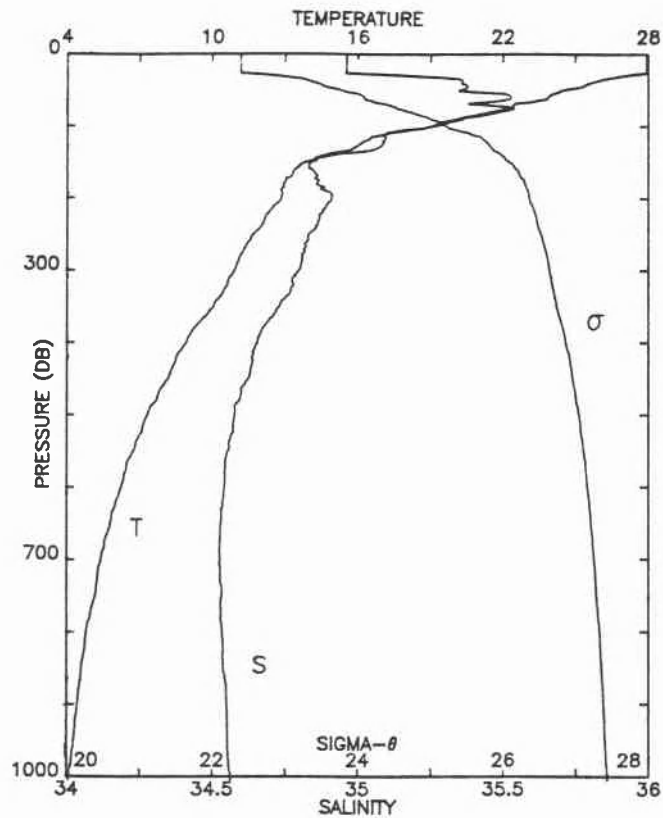
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.811	35.106	27.810	22.539	529.7	0.005
10	27.746	35.105	27.744	22.559	528.1	0.053
20	27.521	35.107	27.516	22.635	521.4	0.105
30	27.463	35.118	27.456	22.662	519.2	0.157
40	27.362	35.125	27.353	22.701	516.0	0.209
50	26.021	35.340	26.010	23.289	460.2	0.258
60	24.646	35.341	24.633	23.712	420.3	0.302
70	23.645	35.274	23.630	23.959	397.0	0.343
80	22.854	35.287	22.838	24.199	374.5	0.381
90	22.423	35.403	22.405	24.411	354.7	0.418
100	21.618	35.451	21.599	24.674	330.0	0.452
110	20.214	35.353	20.194	24.981	301.0	0.483
120	18.642	35.201	18.621	25.272	273.4	0.512
130	17.629	35.144	17.607	25.479	253.9	0.539
140	15.998	35.054	15.976	25.795	223.8	0.562
150	14.402	34.995	14.380	26.103	194.5	0.583
175	13.466	34.948	13.442	26.264	179.8	0.629
200	13.160	34.928	13.132	26.311	176.0	0.674
225	12.859	34.913	12.828	26.361	171.8	0.718
250	12.063	34.864	12.031	26.478	161.0	0.759
300	10.830	34.784	10.794	26.645	145.8	0.836
400	8.788	34.660	8.745	26.893	123.1	0.970
500	7.054	34.575	7.006	27.083	105.3	1.083
600	5.859	34.520	5.807	27.198	94.4	1.182
800	4.946	34.551	4.881	27.333	82.7	1.358
1000	4.173	34.559	4.096	27.426	74.5	1.515
1005	4.142	34.561	4.065	27.430	74.1	1.519

STA NO 62 D-10 LAT: 10 25.0 S LONG: 79 45.0 W
15 FEB 1983 0052 GMT PROBE 2561 DEPTH 4550M
176.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.856	35.078	27.856	22.503	533.1	0.005
10	27.856	35.079	27.854	22.504	533.4	0.053
20	27.728	35.069	27.723	22.538	530.6	0.107
30	27.570	35.076	27.563	22.596	525.6	0.159
40	26.869	35.110	26.860	22.848	501.9	0.211
50	25.891	35.245	25.880	23.257	463.2	0.259
60	25.334	35.305	25.321	23.475	442.9	0.304
70	24.616	35.370	24.601	23.744	417.7	0.347
80	23.969	35.513	23.952	24.046	389.3	0.387
90	22.064	35.329	22.046	24.456	350.3	0.424
100	20.850	35.458	20.831	24.890	309.3	0.457
110	19.237	35.271	19.217	25.174	282.5	0.487
120	17.368	35.093	17.348	25.503	251.2	0.513
130	16.212	35.072	16.191	25.760	226.9	0.537
140	15.268	35.033	15.247	25.943	209.6	0.559
150	14.713	35.007	14.691	26.046	200.1	0.579
175	13.550	34.949	13.526	26.247	181.4	0.627
200	13.009	34.922	12.982	26.337	173.4	0.671
225	12.586	34.895	12.555	26.401	167.9	0.713
250	11.781	34.844	11.749	26.516	157.3	0.754
300	10.739	34.780	10.702	26.658	144.5	0.829
400	8.840	34.666	8.797	26.889	123.5	0.963
500	7.293	34.579	7.245	27.054	108.3	1.079
600	6.127	34.537	6.073	27.178	96.7	1.181
800	4.820	34.540	4.756	27.338	82.0	1.358
1000	4.105	34.563	4.028	27.436	73.5	1.512
1007	4.070	34.564	3.993	27.440	73.0	1.517



STATION 62 D-10

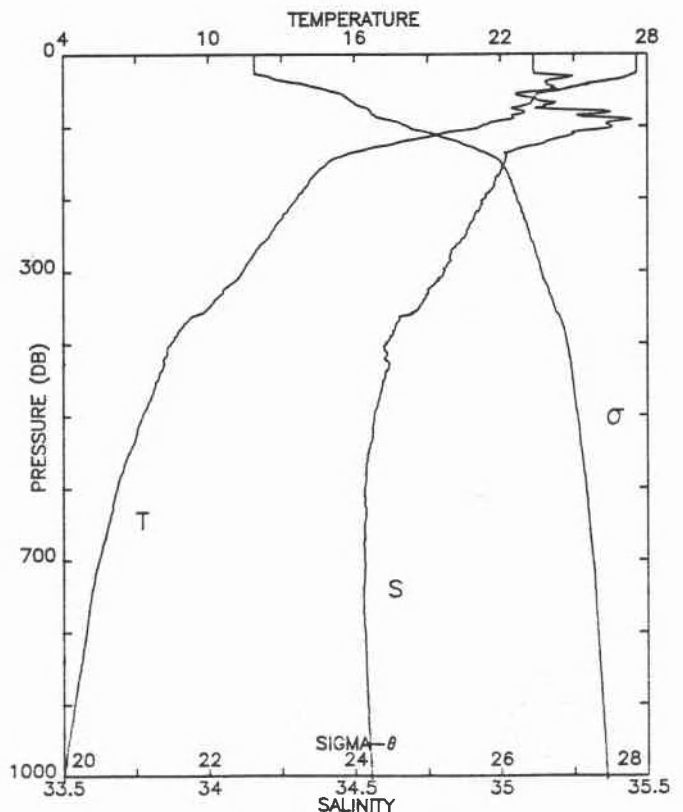


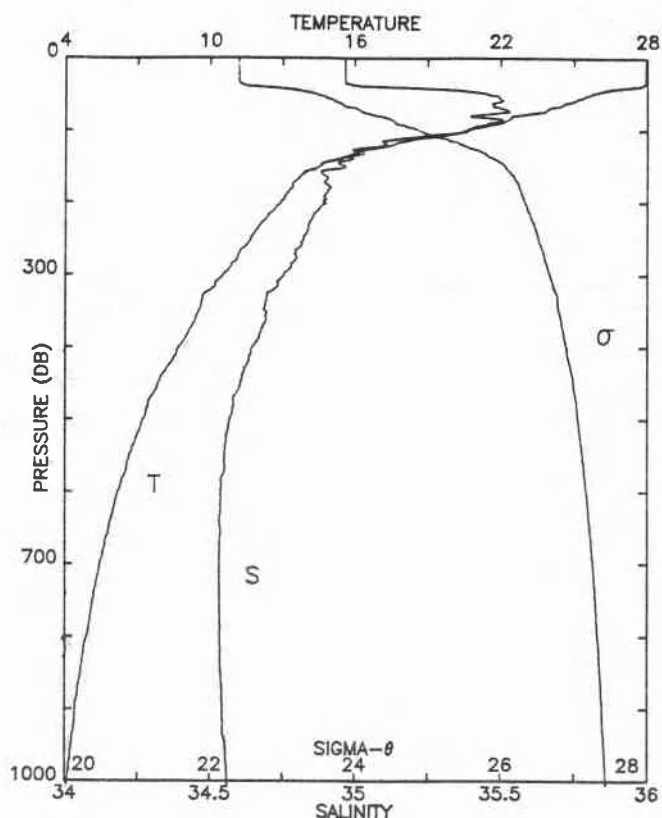
STA NO 63 D-11 LAT: 10 30.2 S LONG: 79 57.3 W
 15 FEB 1983 0256 GMT PROBE 2561 DEPTH 6330M
 200.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.937	34.959	27.937	22.387	544.2	0.005
10	27.942	34.961	27.940	22.387	544.6	0.054
20	27.947	34.960	27.943	22.386	545.2	0.109
30	27.147	35.158	27.140	22.794	506.6	0.163
40	25.684	35.358	25.676	23.406	448.6	0.210
50	24.526	35.358	24.515	23.760	415.2	0.253
60	23.869	35.528	23.856	24.086	384.6	0.293
70	22.447	35.415	22.433	24.412	353.7	0.330
80	21.606	35.499	21.590	24.712	325.5	0.364
90	20.146	35.359	20.129	25.002	298.1	0.395
100	19.062	35.264	19.044	25.213	278.3	0.424
110	17.272	35.100	17.254	25.531	248.2	0.451
120	16.344	35.090	16.324	25.743	228.2	0.474
130	15.856	35.070	15.836	25.840	219.3	0.497
140	14.724	34.924	14.703	25.979	206.1	0.518
150	13.940	34.846	13.919	26.085	196.1	0.538
175	13.042	34.867	13.018	26.287	177.5	0.585
200	12.828	34.911	12.801	26.364	170.8	0.628
225	12.208	34.869	12.179	26.454	162.7	0.670
250	11.688	34.832	11.656	26.524	156.5	0.710
300	10.912	34.798	10.876	26.641	146.2	0.785
400	8.934	34.655	8.890	26.866	125.8	0.921
500	7.310	34.577	7.261	27.050	108.7	1.038
600	6.238	34.542	6.184	27.167	97.9	1.141
800	4.799	34.535	4.734	27.337	82.1	1.320
1000	4.072	34.563	3.996	27.439	73.0	1.476
1005	4.056	34.563	3.979	27.441	72.9	1.479

STA NO 64 D-12 LAT: 10 45.0 S LONG: 80 20.0 W
 15 FEB 1983 0632 GMT PROBE 2561 DEPTH 5065M
 250.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.548	35.113	27.548	22.629	521.0	0.005
10	27.549	35.113	27.547	22.629	521.4	0.052
20	27.552	35.113	27.548	22.629	521.9	0.104
30	27.289	35.210	27.283	22.788	507.2	0.156
40	25.846	35.155	25.837	23.203	468.0	0.205
50	24.495	35.171	24.484	23.628	427.8	0.250
60	23.416	35.096	23.403	23.891	403.0	0.291
70	23.125	35.164	23.110	24.028	390.4	0.331
80	22.979	35.368	22.962	24.225	372.0	0.369
90	22.425	35.432	22.407	24.433	352.7	0.405
100	21.204	35.378	21.184	24.733	324.3	0.439
110	19.565	35.247	19.545	25.071	292.3	0.470
120	18.066	35.166	18.045	25.389	262.2	0.498
130	16.679	35.072	16.658	25.651	237.3	0.523
140	15.575	35.021	15.553	25.866	217.0	0.545
150	14.905	35.014	14.882	26.009	203.6	0.566
175	14.144	34.981	14.119	26.148	191.0	0.616
200	13.621	34.944	13.593	26.229	183.8	0.662
225	13.044	34.909	13.013	26.321	175.7	0.707
250	12.522	34.880	12.489	26.402	168.4	0.750
300	11.408	34.806	11.370	26.558	154.4	0.831
400	8.438	34.608	8.396	26.906	121.5	0.968
500	7.266	34.566	7.218	27.047	108.9	1.082
600	6.223	34.534	6.169	27.163	98.2	1.186
800	4.943	34.534	4.878	27.320	84.0	1.367
1000	4.020	34.556	3.944	27.439	73.0	1.523
1005	4.000	34.557	3.924	27.441	72.7	1.527



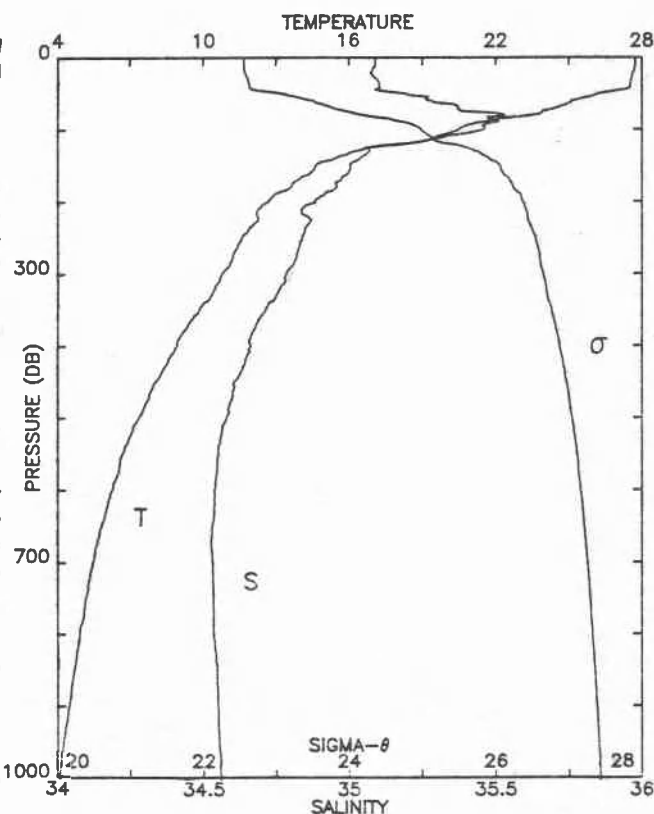


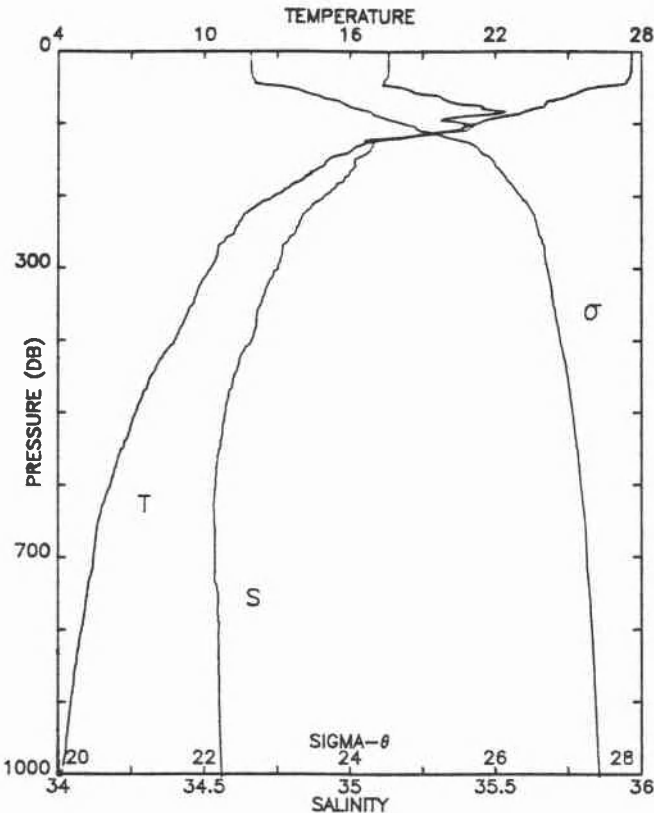
STA NO 65 D-11A LAT: 10 37.5 S LONG: 80 6.9 W
 16 FEB 1983 0231 GMT PROBE 2561 DEPTH 5206M
 222.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.935	34.965	27.934	22.392	543.7	0.005
10	27.936	34.965	27.934	22.392	544.1	0.054
20	27.930	34.965	27.925	22.395	544.3	0.109
30	27.930	34.966	27.923	22.396	544.7	0.163
40	27.406	35.097	27.397	22.665	519.4	0.217
50	25.698	35.455	25.686	23.476	442.3	0.264
60	24.970	35.505	24.957	23.738	417.8	0.307
70	23.981	35.507	23.966	24.037	389.7	0.348
80	22.731	35.414	22.715	24.331	362.0	0.386
90	22.057	35.472	22.039	24.567	339.8	0.421
100	20.670	35.388	20.651	24.885	309.7	0.453
110	19.094	35.205	19.074	25.160	283.8	0.483
120	17.572	35.106	17.552	25.464	254.9	0.510
130	16.193	35.031	16.172	25.733	229.5	0.534
140	15.286	34.991	15.265	25.908	213.0	0.556
150	14.525	34.969	14.503	26.057	199.0	0.577
175	13.399	34.906	13.374	26.245	181.6	0.624
200	12.926	34.895	12.899	26.332	173.8	0.669
225	12.233	34.848	12.204	26.432	164.8	0.711
250	11.686	34.823	11.654	26.517	157.1	0.751
300	10.535	34.754	10.499	26.674	142.9	0.826
400	8.695	34.646	8.652	26.896	122.7	0.958
500	7.220	34.568	7.172	27.054	108.2	1.072
600	6.182	34.537	6.128	27.171	97.5	1.175
800	4.897	34.535	4.832	27.326	83.4	1.354
1000	4.083	34.560	4.006	27.436	73.4	1.510
1005	4.066	34.561	3.989	27.438	73.2	1.514

STA NO 66 D-11 LAT: 10 30.0 S LONG: 79 54.0 W
 16 FEB 1983 2109 GMT PROBE 2561 DEPTH 6285M
 195.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.724	35.088	27.724	22.553	528.3	0.005
10	27.720	35.088	27.718	22.555	528.5	0.053
20	27.658	35.077	27.653	22.568	527.8	0.106
30	27.561	35.094	27.554	22.612	524.0	0.158
40	27.512	35.104	27.503	22.637	522.1	0.211
50	26.377	35.179	26.366	23.056	482.5	0.262
60	25.241	35.274	25.227	23.481	442.3	0.308
70	24.517	35.371	24.502	23.774	414.7	0.351
80	23.562	35.528	23.545	24.177	376.7	0.390
90	21.439	35.499	21.421	24.759	321.4	0.425
100	20.492	35.457	20.473	24.986	300.1	0.456
110	19.618	35.329	19.598	25.119	287.7	0.485
120	18.170	35.197	18.149	25.387	262.4	0.513
130	16.284	35.070	16.264	25.741	228.7	0.537
140	15.430	35.037	15.409	25.911	212.7	0.559
150	14.630	35.004	14.608	26.061	198.6	0.580
175	13.675	34.954	13.650	26.225	183.5	0.628
200	12.681	34.884	12.654	26.372	170.0	0.672
225	12.270	34.870	12.240	26.443	163.8	0.713
250	11.590	34.839	11.558	26.548	154.2	0.753
300	10.795	34.785	10.758	26.652	145.1	0.828
400	8.909	34.662	8.866	26.876	124.9	0.963
500	7.356	34.580	7.307	27.045	109.2	1.080
600	6.251	34.537	6.197	27.162	98.4	1.183
800	4.903	34.534	4.838	27.325	83.5	1.363
1000	4.091	34.560	4.015	27.435	73.5	1.519
1003	4.082	34.561	4.005	27.437	73.3	1.521





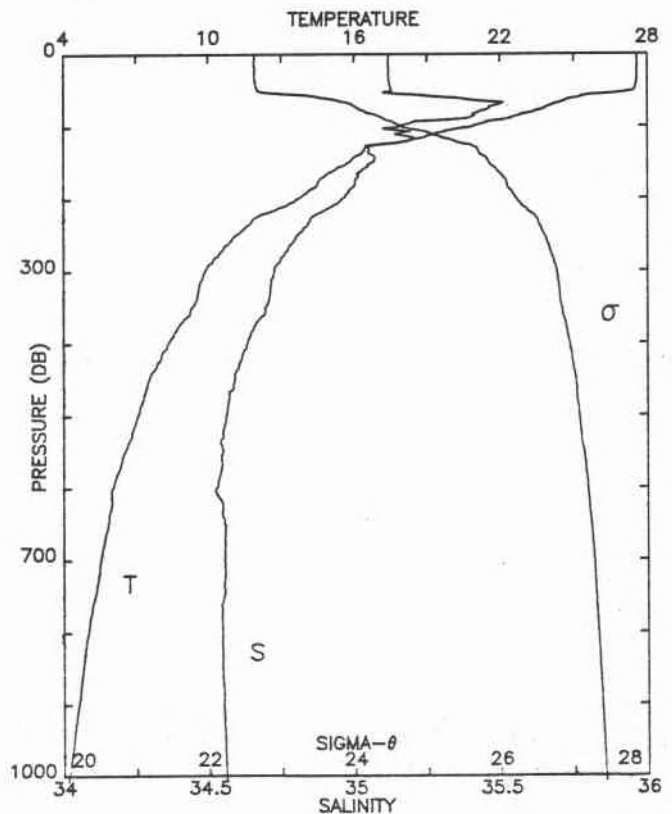
STATION 67 D-10

STA NO 67 D-10 LAT: 10 25.0 S LONG: 79 45.0 W
16 FEB 1983 2346 GMT PROBE 2561 DEPTH 4333M
176.0 KM FROM SHORE

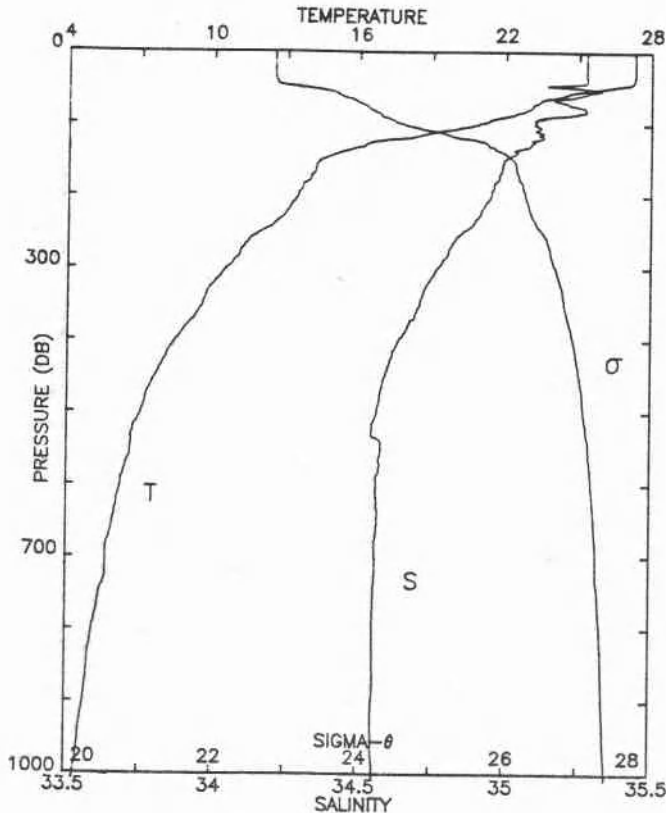
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.588	35.133	27.588	22.631	520.8	0.005
10	27.587	35.133	27.584	22.632	521.1	0.052
20	27.576	35.133	27.572	22.636	521.2	0.104
30	27.555	35.133	27.548	22.644	521.0	0.156
40	27.415	35.121	27.406	22.681	517.9	0.208
50	26.120	35.179	26.109	23.136	474.8	0.259
60	25.200	35.276	25.186	23.494	441.0	0.305
70	24.139	35.352	24.124	23.873	405.3	0.347
80	23.567	35.472	23.550	24.133	380.9	0.387
90	22.355	35.381	22.337	24.414	354.4	0.423
100	21.202	35.409	21.182	24.757	322.1	0.457
110	20.086	35.365	20.065	25.024	296.9	0.488
120	17.867	35.130	17.846	25.410	260.1	0.516
130	16.400	35.080	16.379	25.723	230.5	0.540
140	15.920	35.061	15.898	25.819	221.6	0.563
150	15.101	35.018	15.078	25.969	207.4	0.584
175	14.127	34.981	14.102	26.152	190.6	0.634
200	12.887	34.912	12.860	26.353	171.8	0.679
225	11.642	34.838	11.613	26.537	154.6	0.720
250	11.220	34.812	11.189	26.596	149.5	0.758
300	10.267	34.752	10.231	26.719	138.5	0.829
400	8.771	34.661	8.728	26.897	122.8	0.960
500	7.170	34.571	7.122	27.064	107.2	1.074
600	6.141	34.538	6.088	27.177	96.8	1.175
800	4.972	34.550	4.906	27.329	83.2	1.354
1000	4.161	34.561	4.084	27.428	74.3	1.511
1003	4.152	34.562	4.075	27.430	74.2	1.513

STA NO 68 D-9 LAT: 10 20.0 S LONG: 79 36.0 W
17 FEB 1983 0125 GMT PROBE 2561 DEPTH 3793M
157.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.568	35.118	27.568	22.626	521.3	0.005
10	27.572	35.118	27.570	22.625	521.8	0.052
20	27.557	35.119	27.552	22.632	521.7	0.104
30	27.561	35.119	27.554	22.631	522.2	0.157
40	27.531	35.121	27.522	22.643	521.5	0.209
50	27.439	35.129	27.427	22.679	518.5	0.261
60	25.224	35.318	25.210	23.519	438.7	0.309
70	24.171	35.495	24.157	23.971	395.9	0.350
80	23.375	35.426	23.358	24.154	378.8	0.389
90	22.242	35.350	22.224	24.422	353.6	0.426
100	20.870	35.153	20.851	24.652	331.9	0.460
110	19.332	35.151	19.313	25.057	293.5	0.491
120	18.170	35.187	18.149	25.380	263.1	0.519
130	16.452	35.050	16.431	25.688	233.8	0.543
140	16.174	35.065	16.152	25.764	226.9	0.567
150	15.786	35.062	15.763	25.851	218.9	0.589
175	14.540	35.003	14.515	26.081	197.5	0.640
200	13.688	34.959	13.659	26.227	184.1	0.688
225	12.005	34.855	11.976	26.481	160.0	0.732
250	11.157	34.805	11.126	26.601	148.9	0.770
300	9.852	34.725	9.817	26.768	133.6	0.841
400	8.319	34.632	8.277	26.943	118.0	0.968
500	7.064	34.559	7.016	27.070	106.5	1.079
600	6.011	34.525	5.958	27.183	96.1	1.180
800	4.995	34.545	4.930	27.323	83.8	1.358
1000	4.205	34.557	4.128	27.421	75.1	1.517
1007	4.181	34.558	4.103	27.424	74.8	1.523



STATION 68 D-9

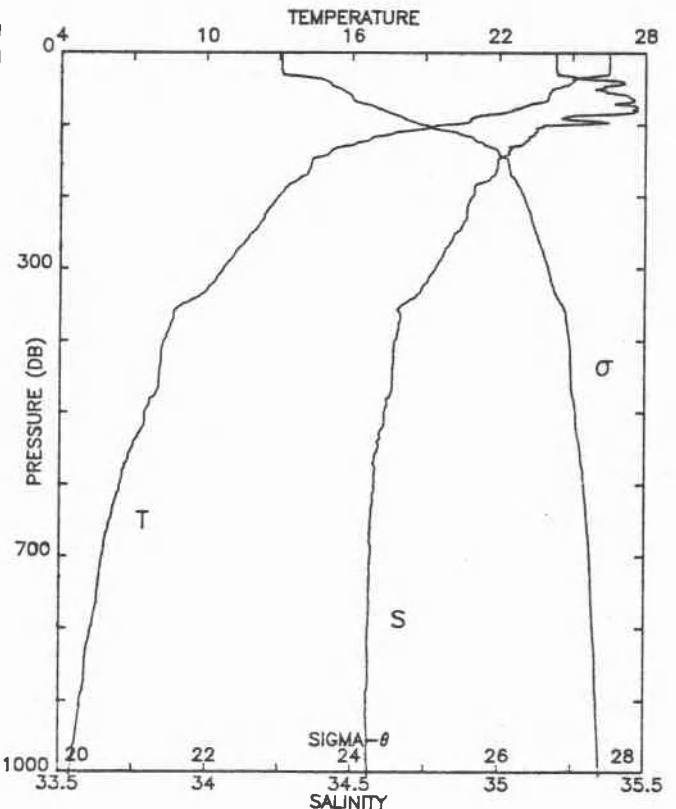


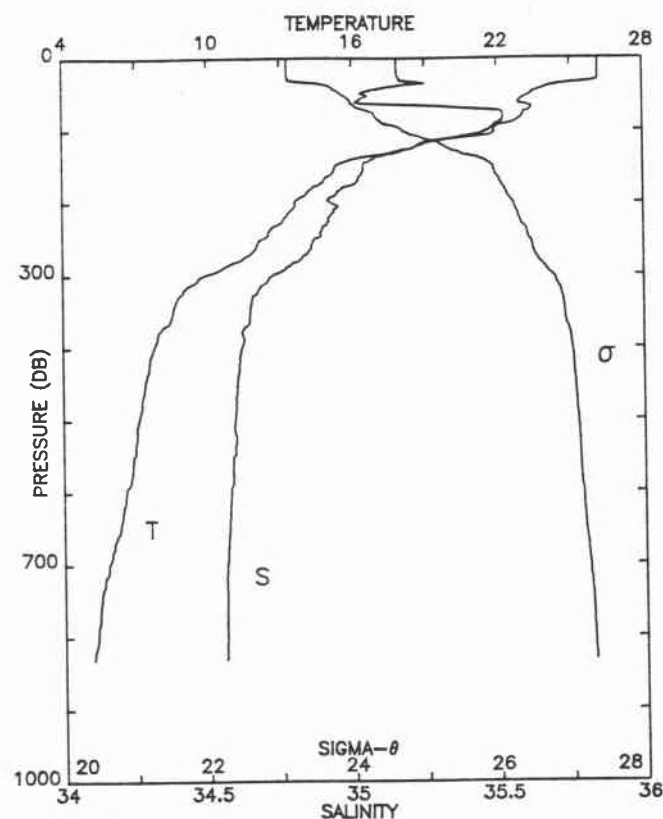
STA NO 69 D-8 LAT: 10 15.0 S LONG: 79 27.0 W
 17 FEB 1983 0310 GMT PROBE 2561 DEPTH 2073M
 138.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.298	35.275	27.297	22.832	501.6	0.005
10	27.306	35.275	27.303	22.830	502.3	0.050
20	27.308	35.275	27.304	22.829	502.8	0.100
30	27.310	35.275	27.303	22.830	503.2	0.151
40	27.253	35.277	27.244	22.850	501.7	0.201
50	25.997	35.276	25.985	23.248	464.2	0.250
60	24.372	35.252	24.360	23.727	418.8	0.294
70	23.331	35.202	23.317	23.996	393.4	0.334
80	22.908	35.273	22.892	24.174	376.9	0.373
90	21.944	35.146	21.926	24.351	360.4	0.410
100	20.882	35.099	20.863	24.608	336.1	0.444
110	19.290	35.108	19.270	25.036	295.6	0.476
120	17.639	35.122	17.619	25.459	255.4	0.504
130	16.213	35.084	16.192	25.769	226.1	0.528
140	15.155	35.038	15.133	25.973	206.8	0.549
150	14.402	34.995	14.379	26.103	194.5	0.569
175	13.982	34.978	13.956	26.180	187.9	0.617
200	13.448	34.949	13.420	26.269	180.0	0.663
225	12.945	34.916	12.914	26.345	173.3	0.707
250	11.915	34.854	11.883	26.498	159.0	0.749
300	10.537	34.768	10.501	26.685	141.9	0.823
400	8.432	34.638	8.390	26.931	119.2	0.954
500	7.029	34.565	6.982	27.079	105.6	1.065
600	6.221	34.566	6.167	27.188	95.8	1.165
800	5.082	34.556	5.016	27.321	84.1	1.345
1000	4.352	34.560	4.274	27.408	76.7	1.506
1007	4.335	34.560	4.256	27.409	76.6	1.511

STA NO 70 D-7 LAT: 10 10.0 S LONG: 79 18.0 W
 17 FEB 1983 0513 GMT PROBE 2561 DEPTH 1660M
 120.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.503	35.191	26.503	23.021	483.5	0.005
10	26.507	35.192	26.505	23.022	483.9	0.048
20	26.509	35.192	26.504	23.022	484.4	0.097
30	26.462	35.199	26.456	23.043	482.8	0.145
40	25.026	35.415	25.018	23.652	425.1	0.190
50	24.280	35.344	24.269	23.824	409.1	0.232
60	23.988	35.440	23.975	23.984	394.3	0.272
70	23.526	35.420	23.512	24.105	383.2	0.311
80	22.564	35.465	22.548	24.417	353.7	0.348
90	20.932	35.220	20.914	24.686	328.3	0.382
100	19.872	35.221	19.854	24.969	301.6	0.413
110	17.949	35.124	17.930	25.385	262.2	0.442
120	16.745	35.099	16.725	25.656	236.5	0.467
130	15.753	35.052	15.733	25.849	218.4	0.490
140	15.038	35.033	15.017	25.994	204.7	0.510
150	14.338	34.993	14.316	26.116	193.4	0.530
175	13.838	34.970	13.813	26.204	185.6	0.578
200	12.971	34.909	12.943	26.334	173.7	0.623
225	12.396	34.890	12.366	26.434	164.7	0.665
250	11.899	34.854	11.867	26.502	158.7	0.706
300	10.696	34.784	10.660	26.668	143.5	0.781
400	8.259	34.645	8.218	26.963	116.0	0.909
500	7.476	34.610	7.427	27.052	108.7	1.023
600	6.474	34.575	6.419	27.163	98.6	1.127
800	5.288	34.557	5.221	27.298	86.7	1.311
1000	4.462	34.558	4.383	27.394	78.2	1.476
1005	4.453	34.559	4.374	27.396	78.1	1.480

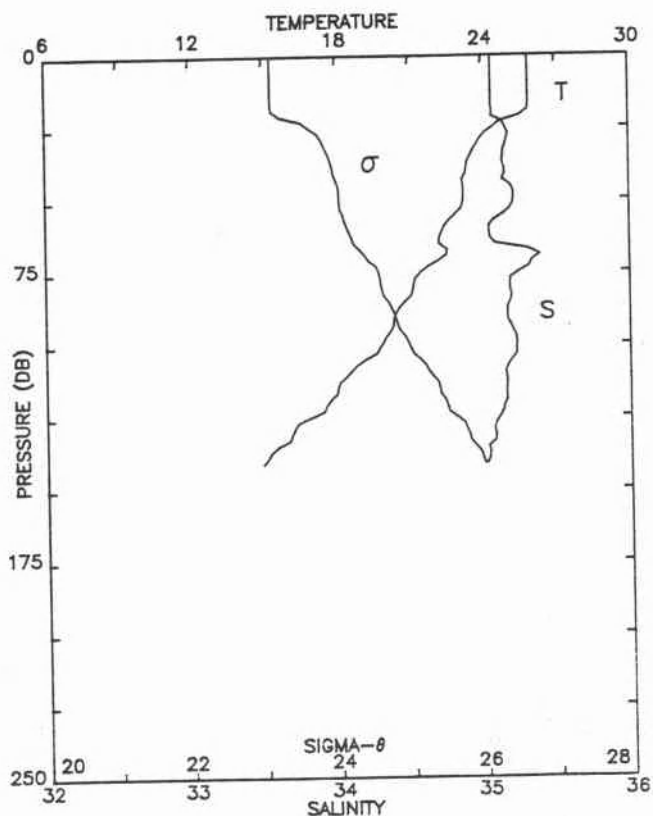




STATION 71 D-6

STA NO 71 D-6 LAT: 10 5.0 S LONG: 79 9.0 W
 17 FEB 1983 0700 GMT PROBE 2561 DEPTH 866M
 100.8 KM FROM SHORE

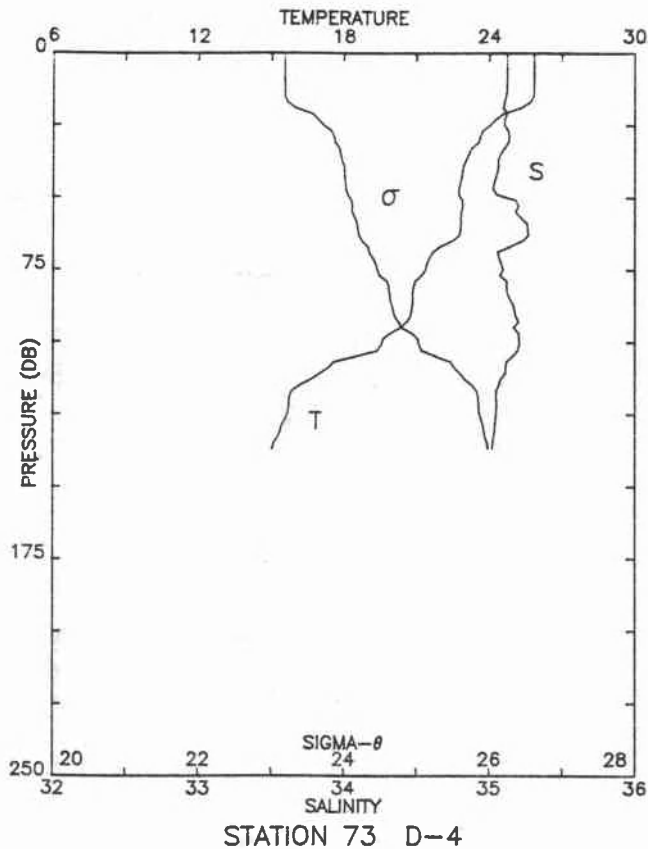
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.168	35.155	26.167	23.100	476.0	0.005
10	26.168	35.155	26.166	23.100	476.4	0.048
20	26.172	35.156	26.167	23.101	476.8	0.095
30	26.156	35.165	26.149	23.113	476.1	0.143
40	24.119	35.132	24.110	23.711	419.4	0.187
50	23.390	35.039	23.380	23.855	406.1	0.229
60	22.913	35.017	22.900	23.977	394.8	0.269
70	23.402	35.402	23.388	24.128	380.9	0.308
80	23.049	35.521	23.032	24.321	362.9	0.345
90	22.569	35.505	22.551	24.447	351.3	0.380
100	21.606	35.487	21.587	24.705	327.1	0.414
110	20.356	35.391	20.336	24.972	301.9	0.446
120	18.831	35.227	18.809	25.245	276.1	0.474
130	17.710	35.159	17.688	25.471	254.7	0.501
140	16.025	35.070	16.002	25.802	223.3	0.525
150	15.293	35.037	15.270	25.942	210.1	0.547
175	14.637	35.004	14.611	26.061	199.4	0.598
200	13.614	34.927	13.585	26.218	184.9	0.646
225	13.113	34.918	13.082	26.313	176.4	0.691
250	12.268	34.869	12.235	26.442	164.5	0.734
300	9.902	34.724	9.867	26.760	134.4	0.810
400	7.743	34.616	7.703	27.016	110.5	0.930
500	7.100	34.592	7.052	27.091	104.6	1.037
600	6.552	34.577	6.496	27.154	99.6	1.140
800	5.332	34.558	5.264	27.294	87.2	1.326
831	5.180	34.556	5.111	27.311	85.7	1.352



STATION 72 D-5

STA NO 72 D-5 LAT: 9 59.6 S LONG: 78 59.6 W
 17 FEB 1983 0902 GMT PROBE 2561 DEPTH 145M
 80.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.902	35.065	25.902	23.115	474.6	0.005
10	25.905	35.065	25.903	23.115	475.0	0.047
20	25.696	35.070	25.692	23.183	468.9	0.095
30	23.826	35.164	23.820	23.820	408.5	0.138
40	23.305	35.152	23.297	23.965	395.2	0.178
50	23.191	35.210	23.181	24.042	388.2	0.217
60	22.346	35.041	22.334	24.157	377.7	0.256
70	22.313	35.360	22.299	24.409	354.1	0.292
80	21.115	35.182	21.100	24.606	335.5	0.326
90	20.363	35.161	20.346	24.794	317.9	0.359
100	19.810	35.224	19.792	24.989	299.8	0.390
110	18.460	35.150	18.441	25.278	272.4	0.419
120	17.614	35.144	17.594	25.483	253.2	0.445
130	16.150	35.070	16.129	25.773	225.7	0.469
140	15.033	35.022	15.012	25.987	205.4	0.491
141	14.937	35.015	14.916	26.002	204.0	0.493

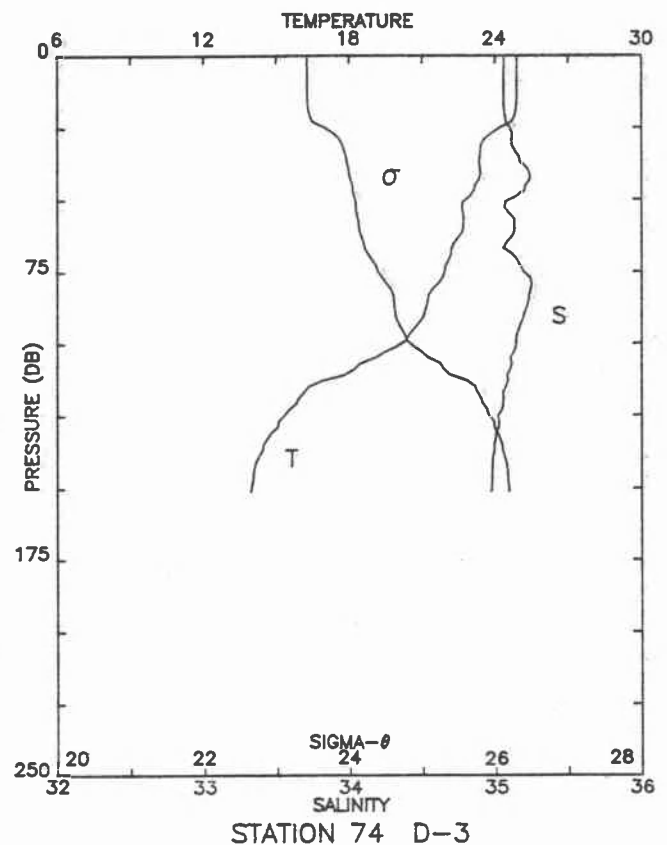


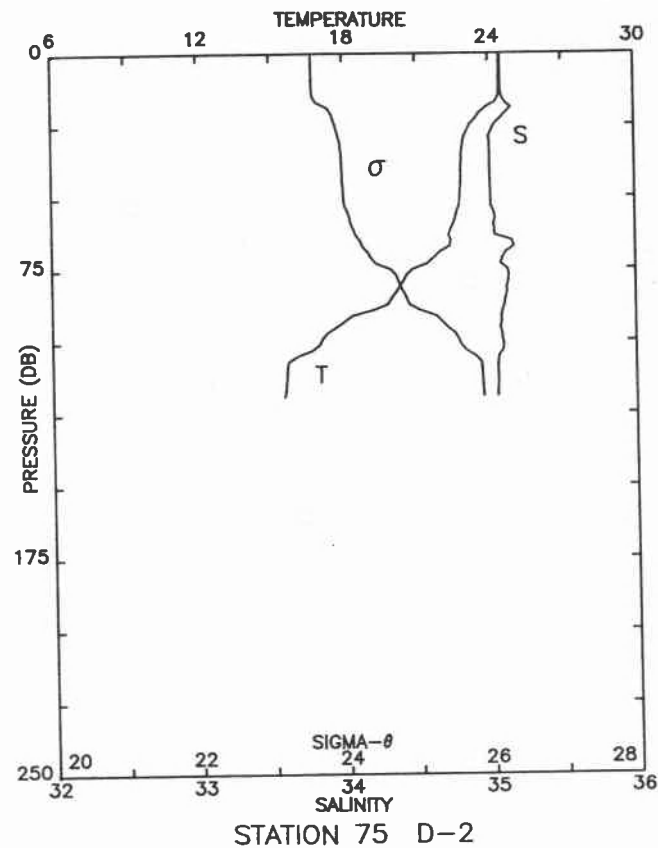
STA NO 73 D-4 LAT: 9 55.5 S LONG: 78 51.0 W
 17 FEB 1983 1052 GMT PROBE 2561 DEPTH 144M
 63.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.838	35.122	25.838	23.178	468.6	0.005
10	25.842	35.122	25.839	23.177	469.0	0.047
20	24.939	35.109	24.935	23.445	443.9	0.093
30	23.571	35.135	23.564	23.874	403.4	0.135
40	22.903	35.058	22.894	24.010	390.9	0.175
50	22.800	35.117	22.790	24.084	384.2	0.214
60	22.805	35.260	22.793	24.192	374.3	0.252
70	21.593	35.061	21.579	24.383	356.4	0.288
80	20.905	35.119	20.890	24.615	334.6	0.323
90	20.774	35.176	20.757	24.695	327.4	0.356
100	19.589	35.205	19.571	25.032	295.7	0.387
110	17.178	35.109	17.160	25.561	245.3	0.415
120	15.732	35.046	15.713	25.849	218.0	0.438
130	15.387	35.037	15.367	25.920	211.5	0.459
137	15.039	35.020	15.018	25.984	205.6	0.474

STA NO 74 D-3 LAT: 9 50.0 S LONG: 78 42.0 W
 17 FEB 1983 1240 GMT PROBE 2561 DEPTH 155M
 44.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.888	35.060	24.887	23.422	445.2	0.004
10	24.886	35.058	24.883	23.423	445.6	0.045
20	24.800	35.064	24.796	23.453	443.1	0.089
30	23.467	35.118	23.461	23.891	401.7	0.131
40	23.375	35.225	23.367	24.000	391.8	0.171
50	22.784	35.113	22.774	24.086	384.0	0.210
60	22.661	35.137	22.649	24.140	379.2	0.248
70	22.117	35.137	22.103	24.295	364.9	0.285
80	21.526	35.243	21.511	24.540	341.9	0.321
90	21.042	35.192	21.025	24.634	333.2	0.354
100	20.125	35.136	20.107	24.839	314.1	0.387
110	17.994	35.087	17.975	25.346	265.9	0.416
120	15.844	35.050	15.825	25.827	220.2	0.439
130	14.899	35.010	14.879	26.007	203.2	0.460
140	14.194	34.978	14.174	26.134	191.3	0.480
150	13.935	34.970	13.914	26.183	186.9	0.499
151	13.915	34.969	13.893	26.186	186.6	0.501



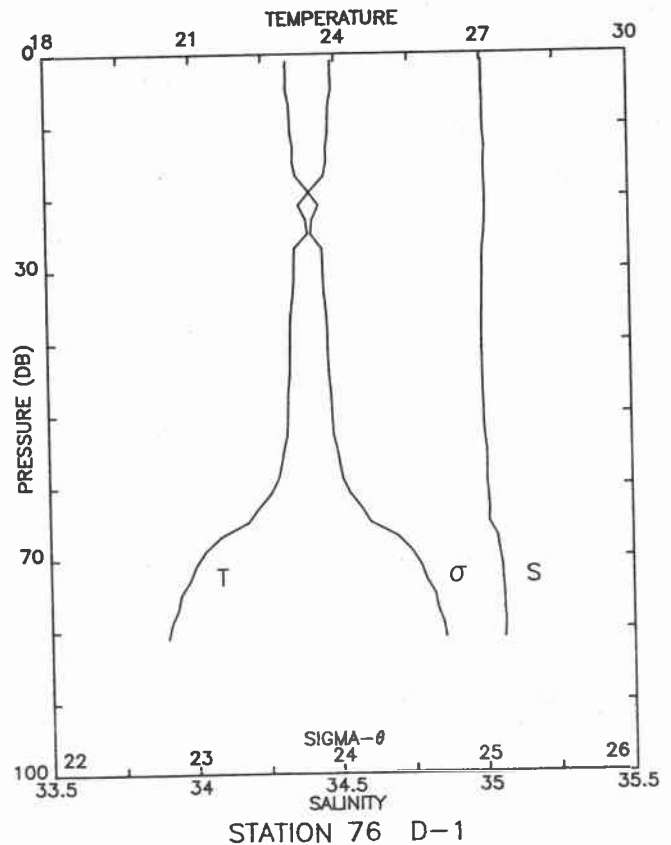


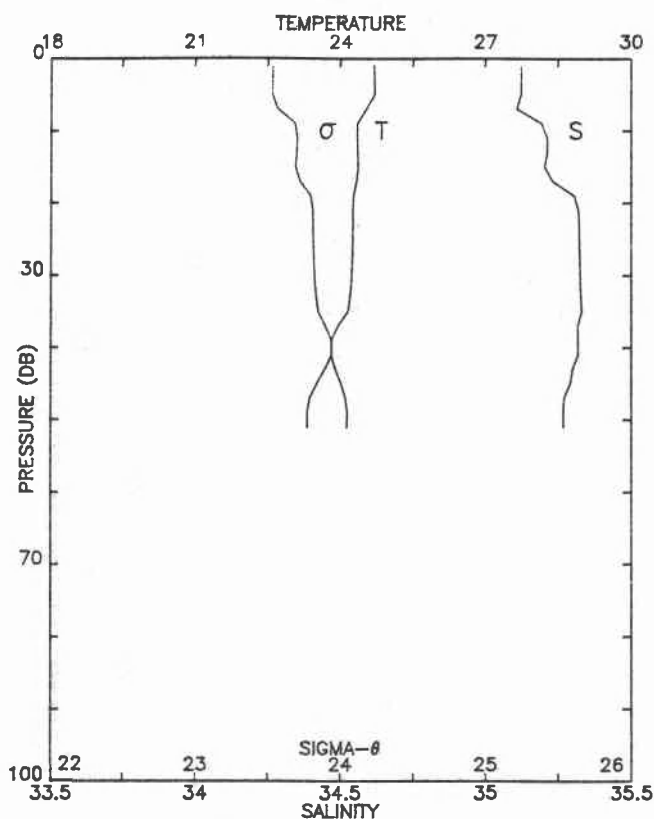
STA NO 75 D-2 LAT: 9 45.0 S LONG: 78 33.0 W
 17 FEB 1983 1409 GMT PROBE 2561 DEPTH 123M
 25.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.449	35.083	24.449	23.572	430.9	0.004
10	24.435	35.083	24.433	23.577	430.9	0.043
20	23.734	35.132	23.730	23.823	407.8	0.086
30	22.958	35.001	22.952	23.950	396.1	0.126
40	22.840	35.004	22.832	23.986	393.0	0.165
50	22.782	35.007	22.772	24.007	391.6	0.204
60	22.453	35.028	22.441	24.117	381.5	0.243
70	21.798	35.094	21.784	24.351	359.5	0.280
80	20.351	35.116	20.336	24.762	320.6	0.314
90	18.753	35.076	18.737	25.147	284.2	0.345
100	17.021	35.082	17.004	25.577	243.4	0.371
110	15.612	35.045	15.595	25.875	215.2	0.393
119	15.500	35.043	15.482	25.899	213.2	0.413

STA NO 76 D-1 LAT: 9 40.0 S LONG: 78 24.0 W
 17 FEB 1983 1528 GMT PROBE 2561 DEPTH 86M
 6.7 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	23.921	35.005	23.921	23.671	421.5	0.004
10	23.847	35.006	23.845	23.694	419.7	0.042
20	23.345	35.010	23.340	23.844	405.8	0.084
30	23.106	34.997	23.100	23.904	400.5	0.124
40	23.005	34.991	22.997	23.929	398.5	0.164
50	22.937	34.995	22.927	23.952	396.7	0.204
60	22.645	35.005	22.633	24.044	388.4	0.243
70	21.083	35.048	21.070	24.513	344.0	0.280
80	20.424	35.060	20.409	24.700	326.5	0.313
81	20.389	35.058	20.374	24.709	325.7	0.317



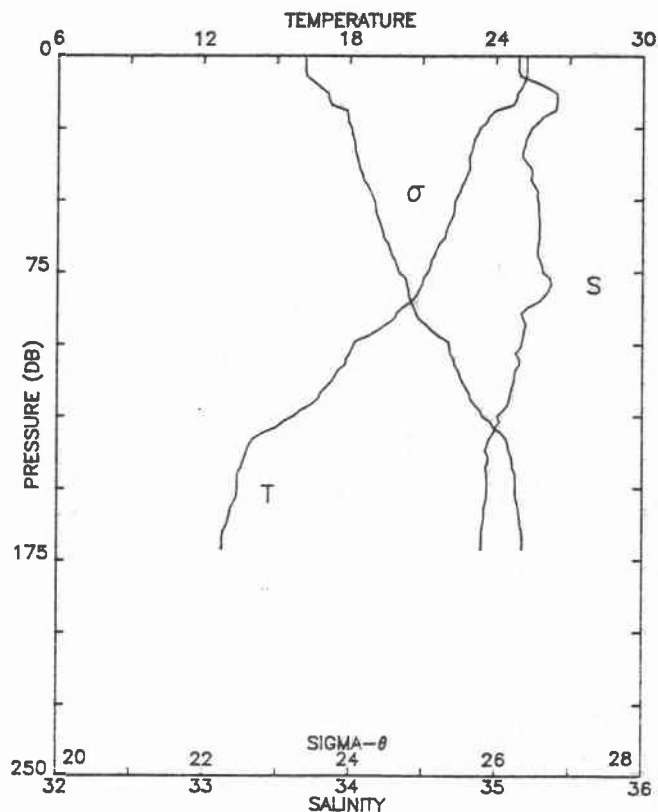


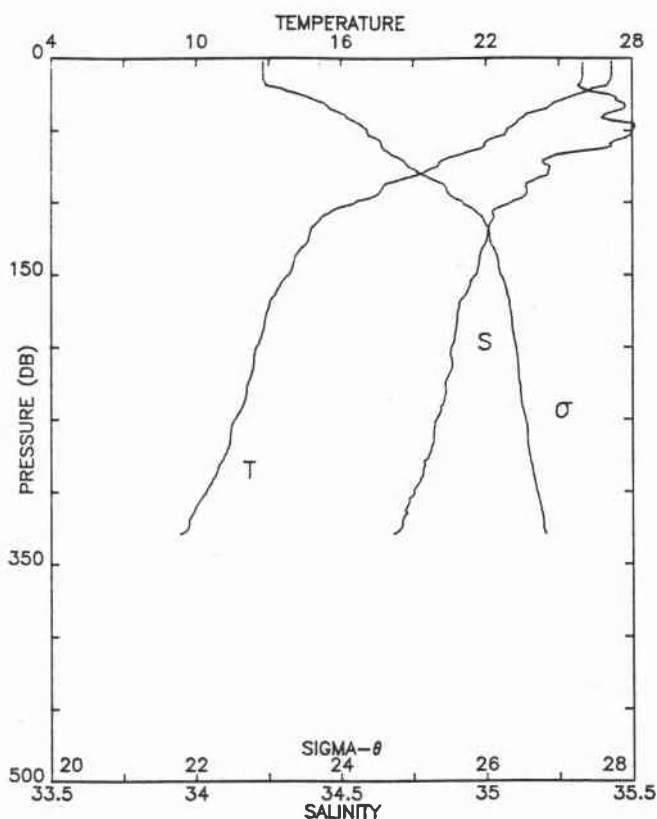
STA NO 77 PS-1 LAT: 10 52.0 S LONG: 77 48.0 W
 17 FEB 1983 2323 GMT PROBE 2561 DEPTH 55M
 8.5 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.681	35.123	24.681	23.533	434.7	0.004
10	24.341	35.203	24.338	23.696	419.5	0.043
20	24.257	35.312	24.253	23.804	409.6	0.085
30	24.228	35.326	24.222	23.824	408.2	0.126
40	23.815	35.317	23.806	23.940	397.5	0.166
50	23.315	35.267	23.305	24.049	387.5	0.205
51	23.319	35.267	23.308	24.048	387.7	0.209

STA NO 78 PS-2 LAT: 10 57.0 S LONG: 77 57.0 W
 18 FEB 1983 0102 GMT PROBE 2561 DEPTH 173M
 27.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.236	35.151	25.236	23.385	448.7	0.004
10	25.083	35.305	25.081	23.549	433.5	0.045
20	23.824	35.361	23.820	23.969	393.9	0.086
30	23.072	35.197	23.066	24.066	385.1	0.125
40	22.870	35.242	22.862	24.159	376.6	0.163
50	22.352	35.285	22.342	24.339	359.8	0.200
60	22.001	35.296	21.989	24.447	349.9	0.236
70	21.423	35.293	21.410	24.606	335.2	0.270
80	20.926	35.369	20.910	24.801	317.0	0.303
90	19.891	35.180	19.875	24.933	304.6	0.334
100	18.171	35.173	18.154	25.368	263.5	0.362
110	17.467	35.130	17.448	25.507	250.5	0.388
120	16.559	35.087	16.540	25.691	233.2	0.412
130	14.718	34.991	14.698	26.031	200.8	0.434
140	13.666	34.947	13.646	26.221	182.9	0.453
150	13.391	34.941	13.370	26.273	178.2	0.471
171	12.777	34.905	12.754	26.369	169.5	0.507





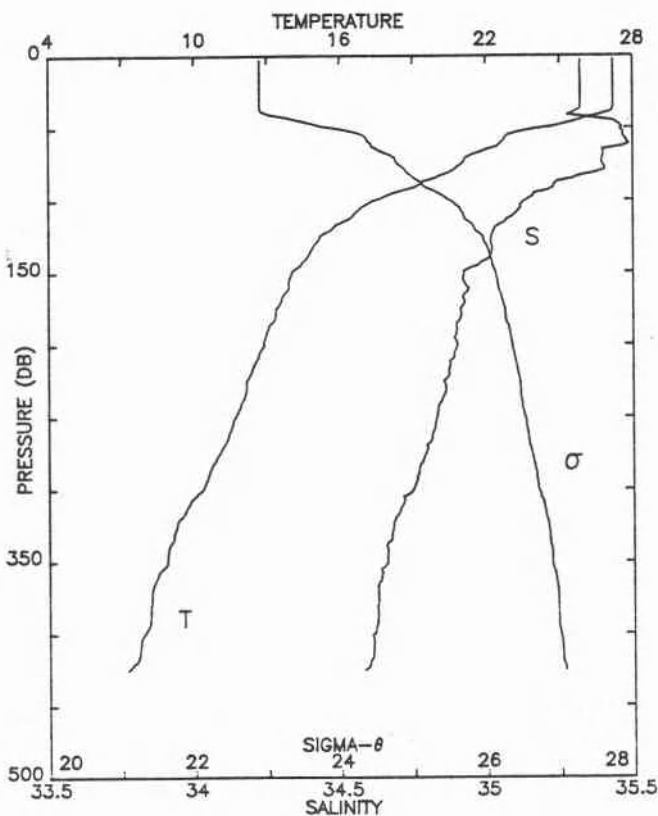
STATION 79 PS-3

STA NO 79 PS-3 LAT: 11 2.0 S LONG: 78 6.0 W
 18 FEB 1983 0232 GMT PROBE 2561 DEPTH 334M
 46.1 KM FROM SHORE

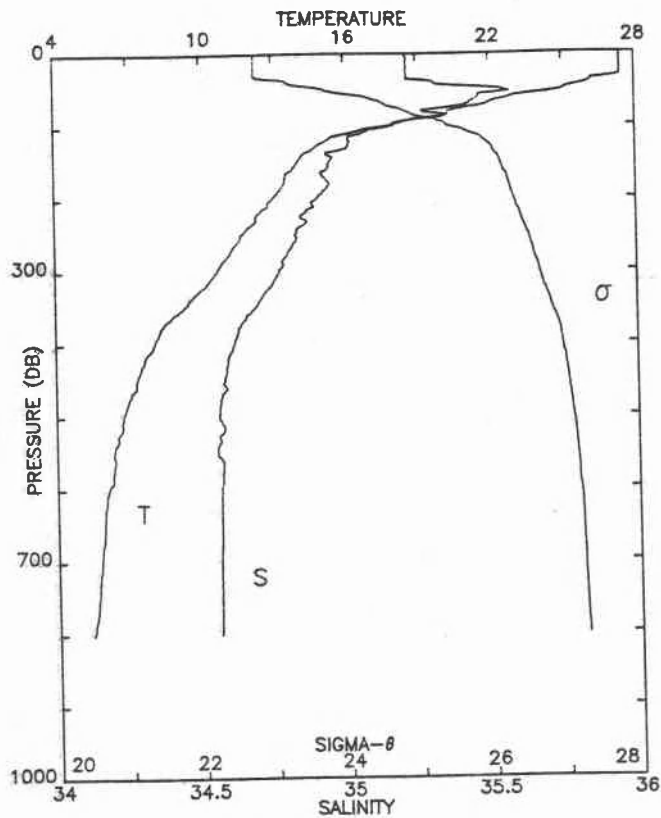
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELO
3	27.156	35.332	27.155	22.920	493.3	0.015
10	27.161	35.331	27.159	22.919	493.8	0.049
20	26.682	35.323	26.678	23.065	480.2	0.098
30	24.951	35.459	24.945	23.707	419.4	0.143
40	23.579	35.401	23.570	24.074	384.8	0.184
50	22.838	35.500	22.828	24.364	357.5	0.220
60	21.930	35.426	21.919	24.566	338.7	0.255
70	20.315	35.205	20.302	24.839	312.8	0.288
80	19.295	35.211	19.280	25.112	287.2	0.318
90	17.708	35.137	17.693	25.453	254.9	0.345
100	16.561	35.084	16.545	25.687	232.9	0.370
110	15.206	35.025	15.189	25.951	207.9	0.392
120	14.726	35.006	14.708	26.041	199.6	0.412
130	14.452	34.991	14.433	26.089	195.3	0.432
140	14.054	34.976	14.034	26.162	188.6	0.451
150	13.794	34.962	13.773	26.206	184.7	0.470
175	12.923	34.901	12.900	26.337	172.7	0.514
200	12.482	34.880	12.455	26.408	166.5	0.557
225	12.128	34.859	12.099	26.461	162.0	0.598
250	11.601	34.829	11.569	26.538	155.1	0.638
300	10.412	34.753	10.377	26.694	140.9	0.712
329	9.379	34.685	9.342	26.816	129.3	0.751

STA NO 80 PS-4 LAT: 11 7.0 S LONG: 78 15.0 W
 18 FEB 1983 0430 GMT PROBE 2561 DEPTH 432M
 64.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELO
3	27.192	35.320	27.191	22.900	495.2	0.015
10	27.192	35.320	27.190	22.900	495.6	0.050
20	27.198	35.320	27.193	22.899	496.1	0.099
30	27.196	35.320	27.189	22.900	496.5	0.149
40	26.849	35.289	26.840	22.989	488.5	0.198
50	24.349	35.460	24.338	23.890	402.8	0.243
60	22.639	35.483	22.626	24.409	353.7	0.280
70	21.252	35.395	21.238	24.731	323.3	0.314
80	20.555	35.386	20.540	24.913	306.3	0.345
90	19.187	35.229	19.171	25.154	283.6	0.375
100	17.463	35.135	17.447	25.511	249.7	0.401
110	16.574	35.095	16.556	25.693	232.7	0.425
120	15.665	35.027	15.646	25.850	217.9	0.448
130	14.984	35.017	14.964	25.993	204.5	0.469
140	14.618	35.008	14.597	26.067	197.8	0.489
150	14.012	34.924	13.990	26.131	191.8	0.508
175	13.355	34.911	13.330	26.258	180.3	0.555
200	12.835	34.900	12.808	26.354	171.7	0.599
225	12.127	34.854	12.098	26.457	162.4	0.641
250	11.660	34.830	11.628	26.528	156.1	0.681
300	10.325	34.748	10.289	26.706	139.8	0.755
400	7.884	34.611	7.843	26.992	113.0	0.878
425	7.243	34.583	7.202	27.062	106.2	0.905



STATION 80 PS-4

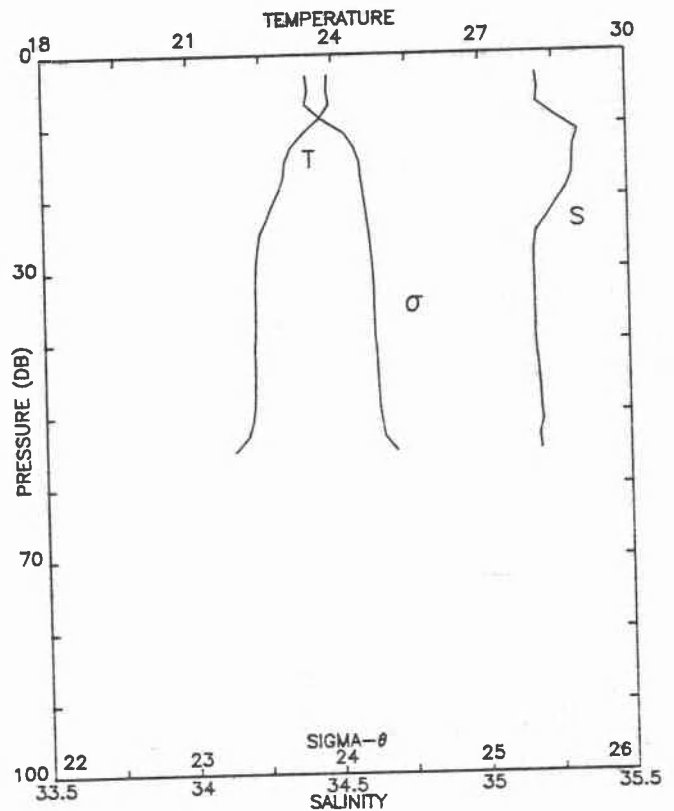


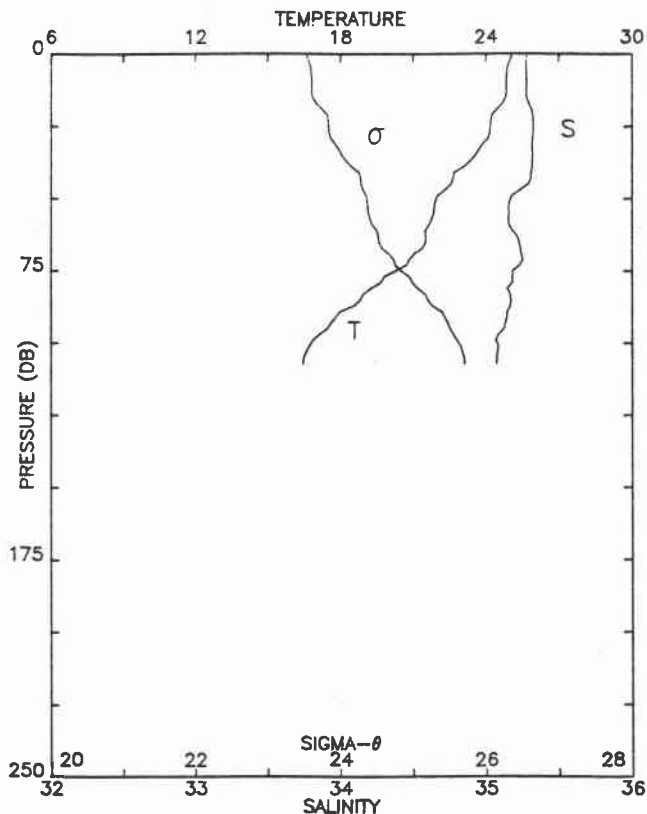
STA NO 81 PS-5 LAT: 11 12.0 S LONG: 78 23.5 W
 18 FEB 1983 0559 GMT PROBE 2561 DEPTH 851M
 82.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.394	35.212	27.394	22.753	509.2	0.005
10	27.399	35.218	27.397	22.757	509.2	0.051
20	27.403	35.218	27.399	22.756	509.8	0.102
30	27.404	35.218	27.397	22.757	510.2	0.153
40	26.156	35.311	26.147	23.224	466.0	0.202
50	25.079	35.543	25.068	23.733	417.8	0.246
60	22.959	35.463	22.946	24.302	363.9	0.286
70	21.923	35.427	21.910	24.569	338.8	0.321
80	20.411	35.273	20.396	24.866	310.7	0.353
90	19.114	35.282	19.098	25.213	278.0	0.383
100	17.844	35.164	17.827	25.441	256.4	0.409
110	16.255	35.064	16.237	25.743	227.8	0.433
120	15.275	35.015	15.257	25.927	210.5	0.455
130	14.771	35.009	14.751	26.034	200.6	0.476
140	14.237	34.941	14.216	26.096	194.8	0.495
150	14.034	34.946	14.012	26.144	190.6	0.515
175	13.512	34.938	13.487	26.246	181.5	0.561
200	12.986	34.902	12.959	26.326	174.5	0.606
225	12.293	34.845	12.263	26.419	166.1	0.648
250	11.661	34.826	11.629	26.525	156.4	0.689
300	10.646	34.771	10.609	26.668	143.6	0.764
400	8.040	34.612	7.999	26.969	115.3	0.892
500	6.735	34.555	6.688	27.111	102.2	1.000
600	6.104	34.562	6.050	27.200	94.6	1.098
800	5.411	34.554	5.343	27.281	88.5	1.281
801	5.402	34.554	5.334	27.282	88.4	1.282

STA NO 82 E-1 LAT: 12 0.0 S LONG: 77 14.0 W
 18 FEB 1983 1557 GMT PROBE 2561 DEPTH 61M
 12.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	23.904	35.193	23.903	23.818	407.5	0.012
10	23.550	35.297	23.548	24.001	390.4	0.040
20	22.782	35.273	22.778	24.206	371.3	0.078
30	22.346	35.176	22.340	24.257	366.8	0.115
40	22.306	35.179	22.298	24.271	365.9	0.152
50	22.259	35.197	22.249	24.299	363.7	0.188
55	21.878	35.193	21.867	24.403	353.9	0.206





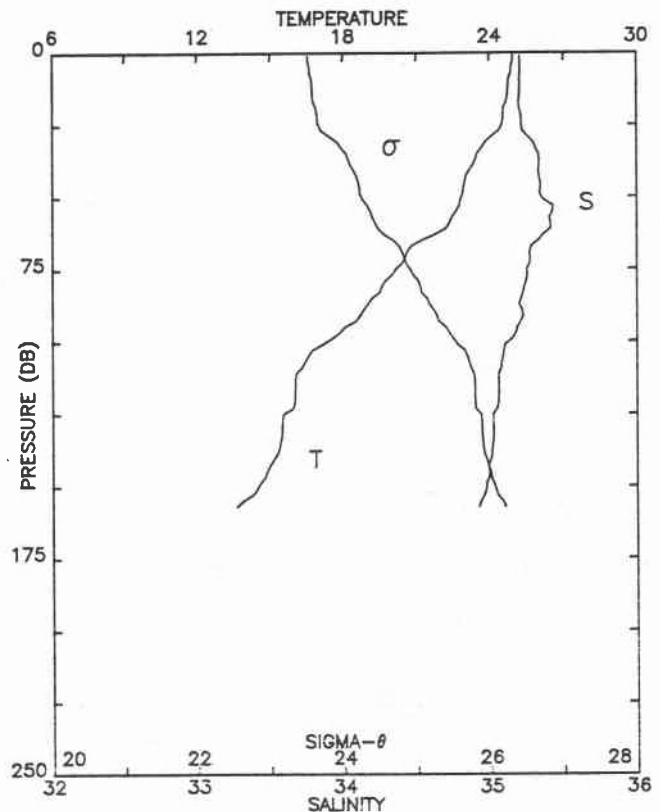
STATION 83 E-2

STA NO 83 E-2 LAT: 12 4.9 S LONG: 77 23.0 W
 18 FEB 1983 1714 GMT PROBE 2561 DEPTH 112M
 31.3 KM FROM SHORE

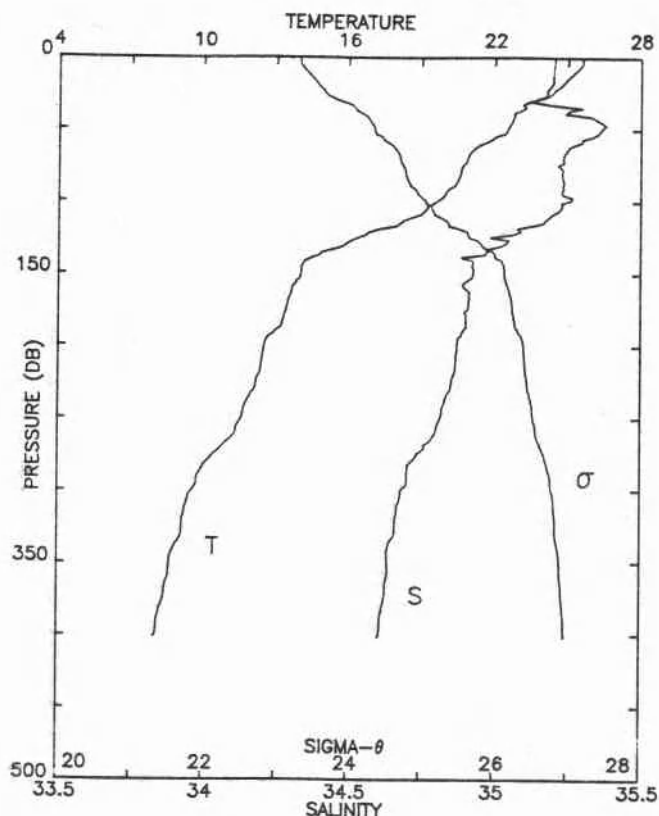
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.053	35.279	25.053	23.538	434.2	0.004
10	24.832	35.279	24.830	23.605	428.2	0.043
20	24.347	35.318	24.343	23.781	411.8	0.085
30	23.969	35.319	23.962	23.896	401.3	0.126
40	22.873	35.313	22.865	24.212	371.6	0.165
50	21.941	35.167	21.931	24.366	357.3	0.201
60	21.566	35.168	21.554	24.471	347.6	0.237
70	20.950	35.247	20.937	24.700	326.2	0.271
80	19.454	35.162	19.439	25.033	294.7	0.302
90	17.882	35.143	17.867	25.415	258.6	0.329
100	16.784	35.075	16.768	25.628	238.5	0.354
107	16.442	35.071	16.425	25.705	231.4	0.371

STA NO 84 E-3 LAT: 12 10.0 S LONG: 77 31.9 W
 18 FEB 1983 1844 GMT PROBE 2561 DEPTH 165M
 49.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.938	35.204	24.938	23.516	436.3	0.004
10	24.750	35.204	24.748	23.574	431.1	0.043
20	24.546	35.206	24.541	23.638	425.5	0.086
30	23.942	35.275	23.936	23.870	403.8	0.128
40	23.207	35.330	23.199	24.128	379.6	0.167
50	22.825	35.351	22.815	24.254	367.9	0.205
60	22.261	35.410	22.249	24.461	348.6	0.240
70	20.567	35.267	20.553	24.819	314.8	0.273
80	19.641	35.237	19.627	25.041	294.0	0.304
90	18.753	35.221	18.737	25.258	273.7	0.332
100	17.351	35.125	17.334	25.531	247.9	0.358
110	16.174	35.065	16.157	25.763	226.0	0.382
120	15.992	35.055	15.973	25.797	223.0	0.404
130	15.467	35.021	15.447	25.890	214.4	0.426
140	15.180	35.005	15.159	25.941	209.8	0.447
150	14.497	34.970	14.474	26.064	198.3	0.468
157	13.635	34.922	13.613	26.208	184.6	0.481



STATION 84 E-3



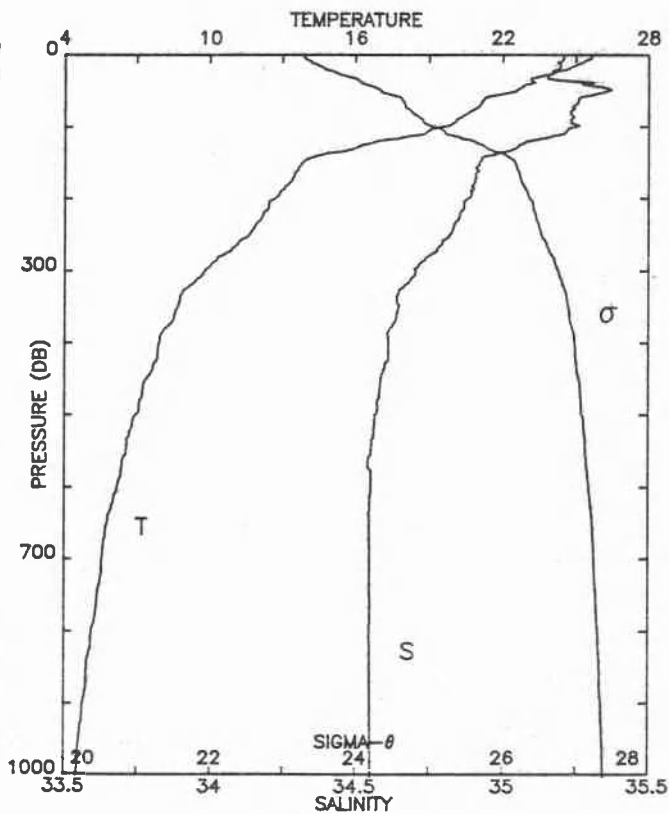
STATION 85 E-4

STA NO 85 E-4 LAT: 12 15.0 S LONG: 77 40.0 W
18 FEB 1983 2011 GMT PROBE 2561 DEPTH 1204M
67.2 KM FROM SHORE

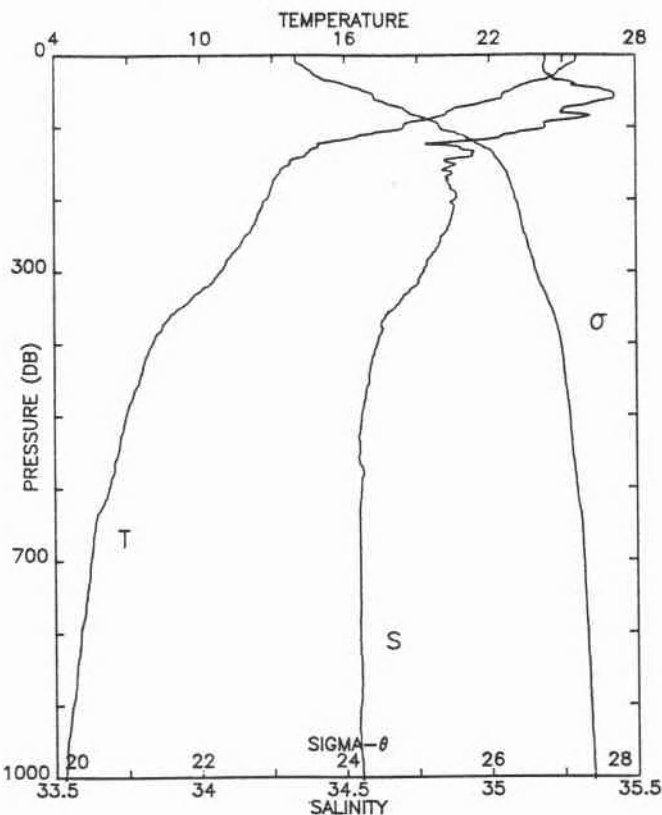
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.593	35.203	25.593	23.315	455.5	0.005
10	25.284	35.200	25.282	23.408	447.0	0.045
20	24.676	35.189	24.672	23.585	430.5	0.089
30	23.596	35.135	23.589	23.866	404.1	0.131
40	22.772	35.286	22.763	24.220	370.8	0.170
50	22.505	35.364	22.495	24.356	358.3	0.206
60	21.493	35.282	21.481	24.578	337.4	0.241
70	20.872	35.233	20.858	24.711	325.1	0.274
80	20.592	35.230	20.577	24.785	318.5	0.306
90	20.238	35.233	20.221	24.883	309.5	0.338
100	19.605	35.244	19.587	25.057	293.2	0.368
110	18.787	35.190	18.768	25.227	277.4	0.396
120	17.058	35.083	17.038	25.569	244.9	0.423
130	15.810	35.032	15.790	25.821	221.0	0.446
140	14.316	34.907	14.295	26.054	198.9	0.467
150	14.007	34.927	13.985	26.135	191.4	0.486
175	13.412	34.908	13.387	26.244	181.6	0.533
200	12.500	34.872	12.473	26.399	167.4	0.576
225	12.177	34.854	12.148	26.448	163.2	0.618
250	11.581	34.816	11.549	26.532	155.7	0.658
300	9.557	34.686	9.524	26.787	131.6	0.729
400	8.040	34.611	7.999	26.969	115.3	0.851
401	8.011	34.610	7.970	26.973	114.9	0.852

STA NO 86 E-4 LAT: 12 15.0 S LONG: 77 40.0 W
18 FEB 1983 2126 GMT PROBE 2561 DEPTH 1204M
67.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.691	35.209	25.691	23.289	458.0	0.005
10	25.339	35.195	25.337	23.387	449.0	0.045
20	24.668	35.189	24.663	23.588	430.3	0.089
30	23.581	35.150	23.575	23.882	402.6	0.131
40	23.187	35.294	23.179	24.106	381.7	0.170
50	22.549	35.364	22.539	24.343	359.5	0.207
60	21.309	35.264	21.297	24.615	333.9	0.242
70	21.069	35.248	21.055	24.669	329.2	0.275
80	20.655	35.230	20.640	24.768	320.1	0.307
90	20.132	35.234	20.115	24.911	306.8	0.339
100	19.617	35.253	19.599	25.061	292.9	0.369
110	18.807	35.210	18.787	25.237	276.4	0.397
120	16.941	35.093	16.921	25.605	241.4	0.423
130	15.990	35.044	15.969	25.790	224.0	0.446
140	14.526	34.959	14.505	26.049	199.5	0.467
150	13.816	34.921	13.794	26.170	188.1	0.487
175	13.369	34.906	13.345	26.251	181.0	0.533
200	12.686	34.882	12.659	26.370	170.2	0.577
225	12.143	34.853	12.113	26.454	162.7	0.618
250	11.615	34.821	11.584	26.529	156.0	0.658
300	9.783	34.703	9.749	26.763	134.0	0.730
400	7.911	34.612	7.871	26.989	113.3	0.852
500	6.984	34.569	6.937	27.088	104.7	0.961
600	6.185	34.554	6.132	27.183	96.3	1.061
800	5.131	34.549	5.064	27.310	85.3	1.241
1000	4.508	34.552	4.428	27.385	79.2	1.405
1003	4.499	34.553	4.419	27.386	79.1	1.408



STATION 86 E-4



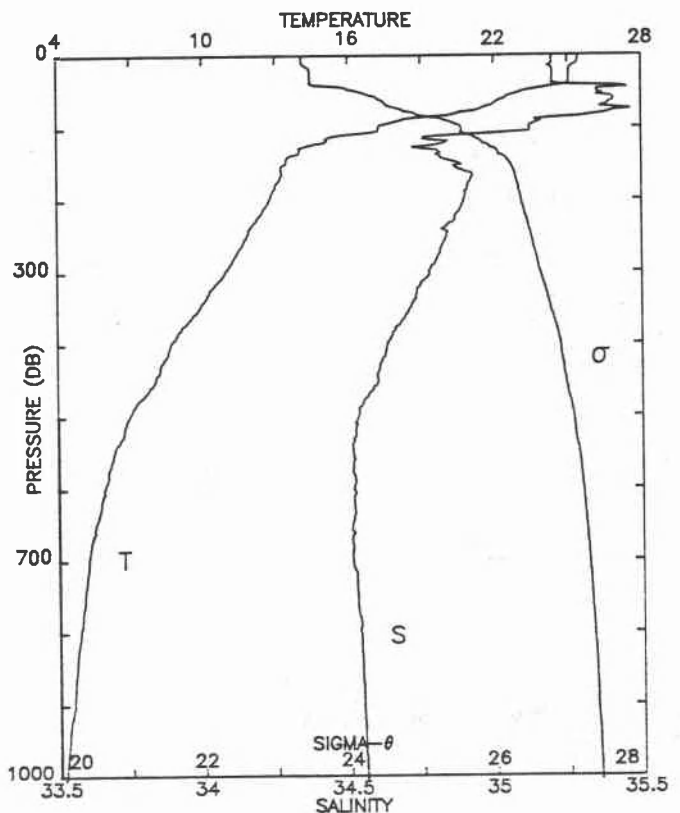
STATION 87 E-5

STA NO 87 E-5 LAT: 12 20.0 S LONG: 77 48.9 W
 18 FEB 1983 2326 GMT PROBE 2561 DEPTH 1548M
 85.8 KM FROM SHORE

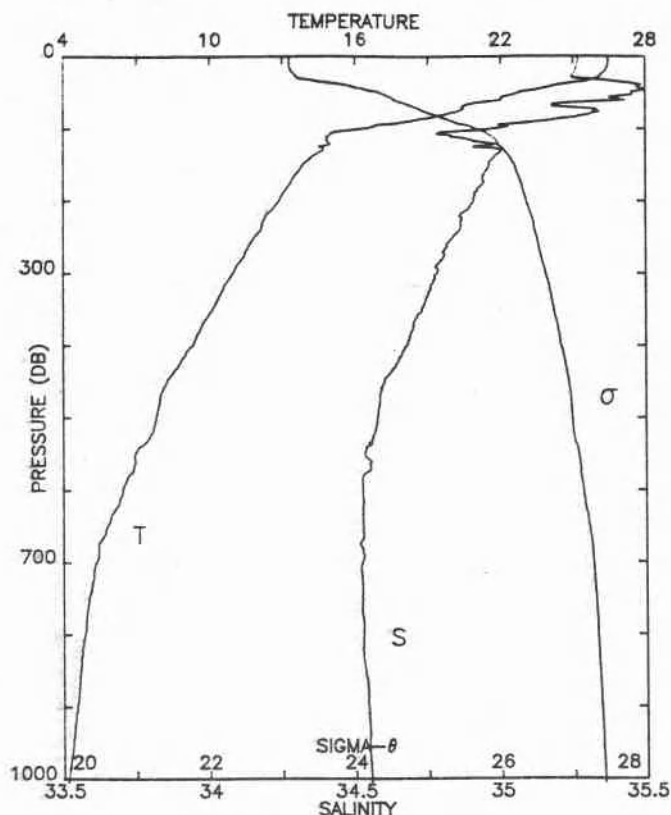
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.559	35.192	25.559	23.317	455.3	0.005
10	25.512	35.190	25.510	23.331	454.4	0.046
20	24.990	35.187	24.985	23.489	439.8	0.090
30	24.624	35.213	24.618	23.620	427.6	0.134
40	23.618	35.288	23.610	23.976	394.1	0.175
50	22.878	35.403	22.868	24.279	365.6	0.213
60	22.492	35.427	22.480	24.408	353.7	0.249
70	21.241	35.325	21.228	24.681	328.1	0.283
80	20.231	35.244	20.216	24.892	308.2	0.314
90	19.250	35.279	19.234	25.175	281.5	0.344
100	18.422	35.190	18.405	25.318	268.2	0.371
110	16.889	35.070	16.871	25.599	241.6	0.397
120	15.417	34.885	15.398	25.796	223.0	0.420
130	14.690	34.905	14.670	25.971	206.5	0.441
140	14.359	34.941	14.338	26.071	197.3	0.461
150	13.727	34.875	13.705	26.153	189.7	0.481
175	13.032	34.856	13.008	26.280	178.1	0.527
200	12.736	34.878	12.709	26.357	171.4	0.570
225	12.345	34.867	12.315	26.426	165.4	0.612
250	11.860	34.834	11.828	26.494	159.5	0.653
300	10.822	34.769	10.785	26.635	146.8	0.730
400	8.009	34.610	7.969	26.972	114.9	0.858
500	6.902	34.555	6.855	27.089	104.5	0.968
600	6.196	34.555	6.142	27.183	96.3	1.069
800	5.023	34.548	4.957	27.322	84.0	1.247
1000	4.378	34.555	4.299	27.401	77.4	1.408
1003	4.365	34.555	4.286	27.402	77.2	1.410

STA NO 88 E-6 LAT: 12 25.0 S LONG: 77 58.0 W
 19 FEB 1983 0139 GMT PROBE 2561 DEPTH 2012M
 105.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.419	35.197	25.419	23.364	450.8	0.005
10	25.403	35.197	25.401	23.369	450.7	0.045
20	25.062	35.198	25.057	23.475	441.0	0.090
30	25.050	35.199	25.043	23.480	441.0	0.134
40	25.002	35.214	24.994	23.506	439.0	0.178
50	23.206	35.350	23.196	24.144	378.5	0.218
60	22.415	35.406	22.403	24.414	353.1	0.254
70	21.781	35.372	21.767	24.567	339.0	0.289
80	20.537	35.380	20.522	24.914	306.2	0.321
90	18.178	35.149	18.163	25.347	265.1	0.350
100	17.258	35.120	17.241	25.549	246.1	0.375
110	16.112	34.892	16.094	25.643	237.3	0.400
120	15.078	34.837	15.060	25.834	219.3	0.423
130	13.995	34.780	13.976	26.023	201.5	0.444
140	13.579	34.815	13.560	26.137	190.8	0.463
150	13.424	34.883	13.403	26.221	183.1	0.482
175	13.122	34.916	13.098	26.309	175.4	0.527
200	12.752	34.894	12.725	26.366	170.5	0.570
225	12.278	34.862	12.249	26.435	164.5	0.612
250	11.824	34.835	11.792	26.501	158.7	0.652
300	10.918	34.775	10.881	26.623	148.0	0.729
400	8.660	34.632	8.617	26.891	123.2	0.864
500	6.943	34.531	6.896	27.064	107.0	0.980
600	5.888	34.514	5.836	27.190	95.2	1.081
800	4.862	34.534	4.798	27.329	83.0	1.258
1000	4.228	34.553	4.151	27.415	75.7	1.417
1005	4.214	34.554	4.136	27.417	75.5	1.420



STATION 88 E-6



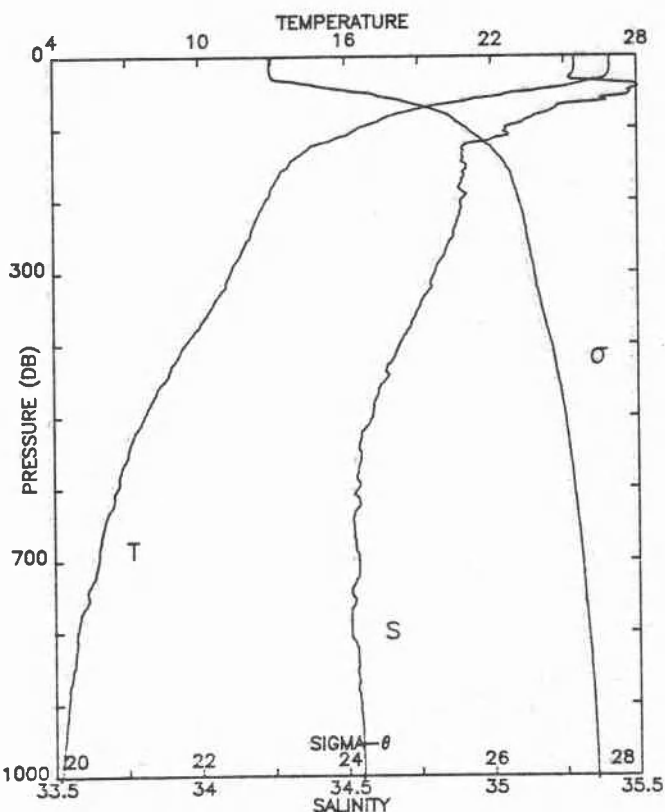
STATION 89 E-7

STA NO 89 E-7 LAT: 12 30.0 S LONG: 78 6.0 W
 19 FEB 1983 0323 GMT PROBE 2561 DEPTH 2933M
 122.0 KM FROM SHORE

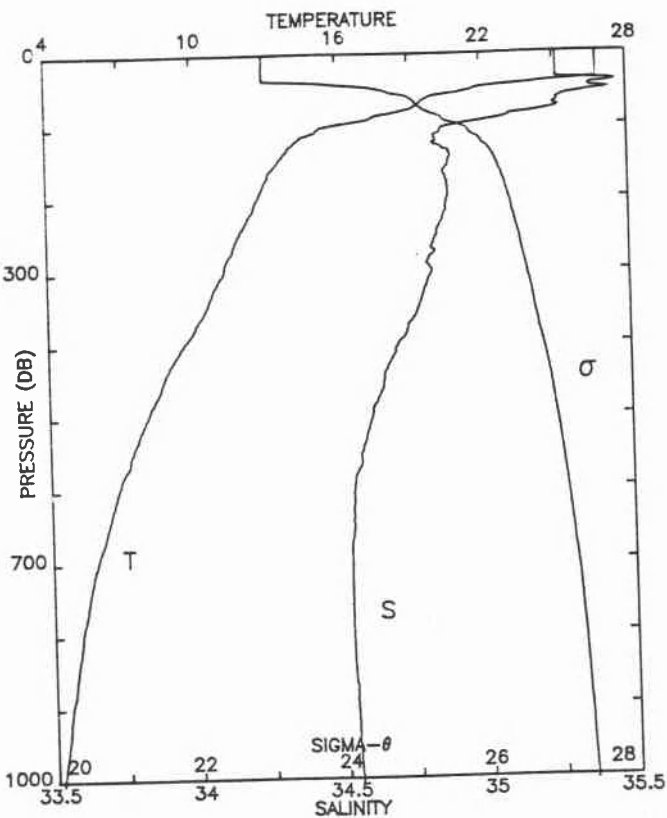
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.453	35.268	26.453	23.095	476.5	0.005
10	26.456	35.266	26.453	23.094	477.0	0.048
20	26.355	35.257	26.351	23.119	475.0	0.095
30	26.026	35.252	26.020	23.219	466.0	0.142
40	24.397	35.478	24.388	23.889	402.4	0.186
50	22.771	35.454	22.760	24.349	359.0	0.224
60	21.994	35.417	21.982	24.541	341.0	0.259
70	20.398	35.208	20.385	24.819	314.8	0.292
80	19.783	35.309	19.768	25.060	292.2	0.322
90	18.176	35.144	18.160	25.344	265.4	0.350
100	16.358	34.975	16.342	25.650	236.4	0.375
110	14.892	34.829	14.875	25.868	215.7	0.398
120	14.938	34.967	14.920	25.965	206.9	0.419
130	14.672	35.003	14.653	26.050	199.0	0.439
140	14.189	34.974	14.168	26.132	191.4	0.458
150	13.853	34.959	13.832	26.191	186.0	0.477
175	13.350	34.939	13.326	26.280	178.2	0.523
200	12.857	34.904	12.830	26.353	171.8	0.567
225	12.258	34.864	12.229	26.440	164.0	0.609
250	11.850	34.834	11.817	26.495	159.3	0.649
300	10.958	34.778	10.921	26.617	148.5	0.726
400	9.295	34.677	9.250	26.825	130.0	0.865
500	7.792	34.576	7.742	26.979	115.9	0.986
600	6.417	34.525	6.362	27.131	101.5	1.095
800	4.850	34.527	4.785	27.325	83.3	1.274
1000	4.184	34.554	4.107	27.420	75.1	1.433
1005	4.161	34.554	4.083	27.423	74.8	1.436

STA NO 90 E-8 LAT: 12 39.9 S LONG: 78 24.0 W
 19 FEB 1983 0623 GMT PROBE 2561 DEPTH 4774M
 159.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.876	35.287	26.875	22.976	487.9	0.005
10	26.884	35.287	26.882	22.974	488.5	0.049
20	26.880	35.286	26.875	22.975	488.8	0.098
30	26.736	35.269	26.729	23.009	486.1	0.146
40	25.491	35.496	25.482	23.570	432.9	0.193
50	23.299	35.475	23.288	24.211	372.1	0.233
60	21.270	35.378	21.258	24.712	324.6	0.268
70	19.459	35.227	19.446	25.081	289.8	0.299
80	18.190	35.179	18.176	25.367	262.8	0.326
90	17.393	35.112	17.377	25.511	249.4	0.352
100	16.547	35.049	16.531	25.664	235.1	0.376
110	16.072	35.059	16.055	25.781	224.2	0.399
120	15.165	34.953	15.147	25.904	212.6	0.421
130	14.448	34.901	14.429	26.020	201.8	0.441
140	14.011	34.902	13.991	26.114	193.1	0.461
150	13.698	34.911	13.677	26.187	186.4	0.480
175	13.114	34.897	13.090	26.296	176.7	0.525
200	12.722	34.894	12.695	26.372	169.9	0.569
225	12.346	34.883	12.316	26.438	164.2	0.610
250	12.080	34.868	12.048	26.478	161.0	0.651
300	11.262	34.803	11.224	26.582	152.0	0.729
400	9.393	34.683	9.348	26.814	131.1	0.872
500	7.696	34.588	7.646	27.003	113.5	0.994
600	6.581	34.539	6.526	27.120	102.8	1.102
800	4.903	34.511	4.839	27.306	85.2	1.289
1000	4.200	34.549	4.123	27.415	75.6	1.448
1005	4.163	34.550	4.085	27.419	75.2	1.452



STATION 90 E-8



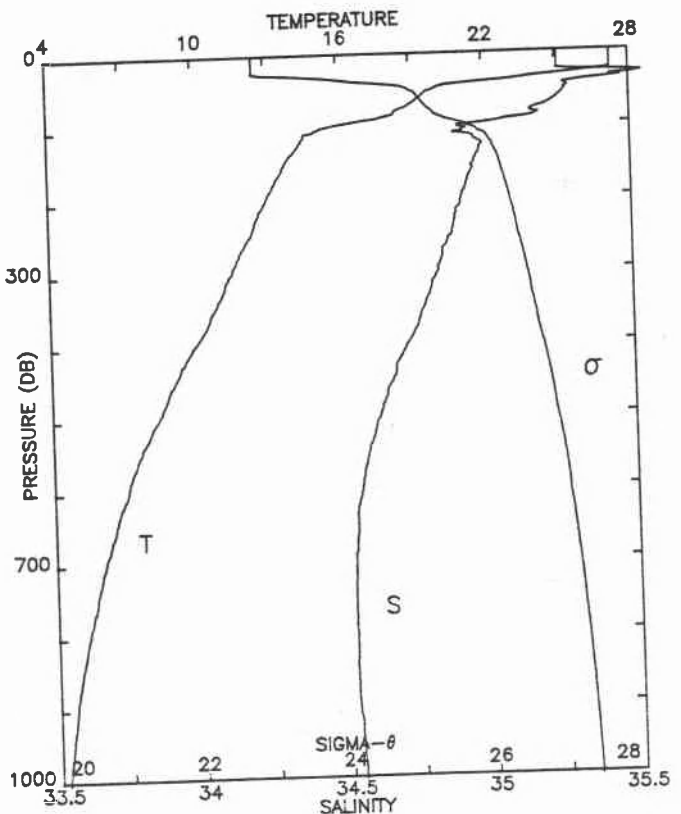
STATION 91 E-9

STA NO 91 E-9 LAT: 12 50.0 S LONG: 78 42.0 W
 19 FEB 1983 0919 GMT PROBE 2561 DEPTH 5081M
 197.0 KM FROM SHORE

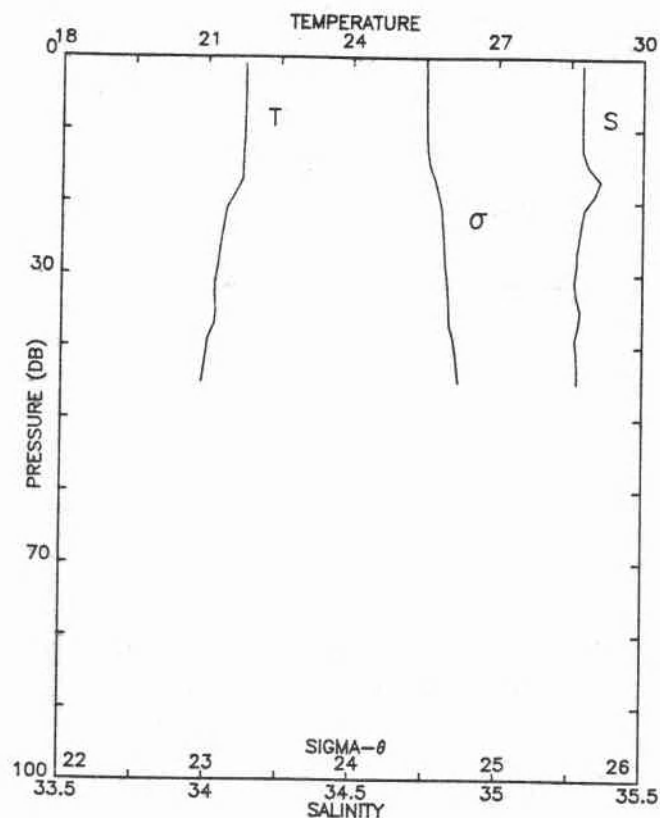
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.773	35.262	26.773	22.989	486.6	0.005
10	26.771	35.262	26.769	22.991	486.8	0.049
20	26.779	35.261	26.774	22.989	487.5	0.097
30	26.781	35.262	26.774	22.989	488.0	0.146
40	25.307	35.452	25.298	23.592	430.8	0.194
50	21.703	35.411	21.693	24.617	333.3	0.231
60	19.957	35.288	19.945	24.997	297.4	0.263
70	19.423	35.253	19.410	25.111	287.0	0.292
80	18.721	35.217	18.707	25.263	272.8	0.320
90	17.432	35.070	17.417	25.469	253.4	0.347
100	15.730	34.896	15.714	25.733	228.3	0.371
110	15.030	34.852	15.014	25.856	216.9	0.393
120	14.362	34.841	14.344	25.992	204.2	0.414
130	13.990	34.864	13.971	26.088	195.2	0.434
140	13.762	34.894	13.742	26.160	188.7	0.453
150	13.534	34.885	13.512	26.200	185.1	0.472
175	13.028	34.876	13.004	26.297	176.5	0.517
200	12.684	34.880	12.657	26.369	170.3	0.560
225	12.302	34.863	12.272	26.431	164.9	0.602
250	11.887	34.840	11.854	26.493	159.5	0.643
300	11.263	34.821	11.225	26.596	150.8	0.720
400	9.557	34.701	9.512	26.801	132.5	0.862
500	8.012	34.607	7.960	26.972	116.9	0.986
600	6.734	34.539	6.677	27.100	104.9	1.096
800	5.113	34.524	5.047	27.293	86.9	1.287
1000	4.233	34.545	4.155	27.408	76.3	1.450
1005	4.219	34.545	4.141	27.409	76.3	1.454

STA NO 92 E-10 LAT: 13 0.0 S LONG: 79 0.0 W
 19 FEB 1983 1231 GMT PROBE 2561 DEPTH 4630M
 234.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	27.223	35.257	27.222	22.843	500.6	0.005
10	27.225	35.257	27.223	22.842	501.1	0.050
20	27.226	35.257	27.222	22.842	501.5	0.100
30	25.973	35.505	25.966	23.427	446.2	0.149
40	22.463	35.383	22.455	24.380	355.5	0.189
50	19.975	35.285	19.966	24.990	297.7	0.221
60	19.458	35.268	19.447	25.112	286.5	0.250
70	19.040	35.233	19.027	25.194	279.0	0.278
80	18.416	35.167	18.402	25.301	269.1	0.305
90	17.704	35.153	17.689	25.467	253.6	0.332
100	15.742	34.941	15.726	25.765	225.3	0.356
110	14.777	34.913	14.760	25.958	207.2	0.377
120	14.460	34.971	14.443	26.071	196.7	0.397
130	14.258	34.988	14.239	26.128	191.6	0.416
140	13.985	34.978	13.964	26.178	187.0	0.435
150	13.793	34.965	13.771	26.209	184.4	0.454
175	13.365	34.942	13.340	26.280	178.3	0.499
200	12.973	34.919	12.945	26.342	172.9	0.543
225	12.583	34.895	12.553	26.401	167.9	0.586
250	12.315	34.883	12.282	26.445	164.3	0.627
300	11.517	34.835	11.479	26.560	154.3	0.707
400	9.924	34.724	9.877	26.758	136.9	0.853
500	8.363	34.622	8.310	26.930	121.1	0.981
600	7.023	34.554	6.966	27.073	107.8	1.094
800	5.266	34.523	5.199	27.274	88.9	1.290
1000	4.305	34.541	4.227	27.397	77.6	1.455
1003	4.302	34.541	4.224	27.398	77.5	1.457



STATION 92 E-10



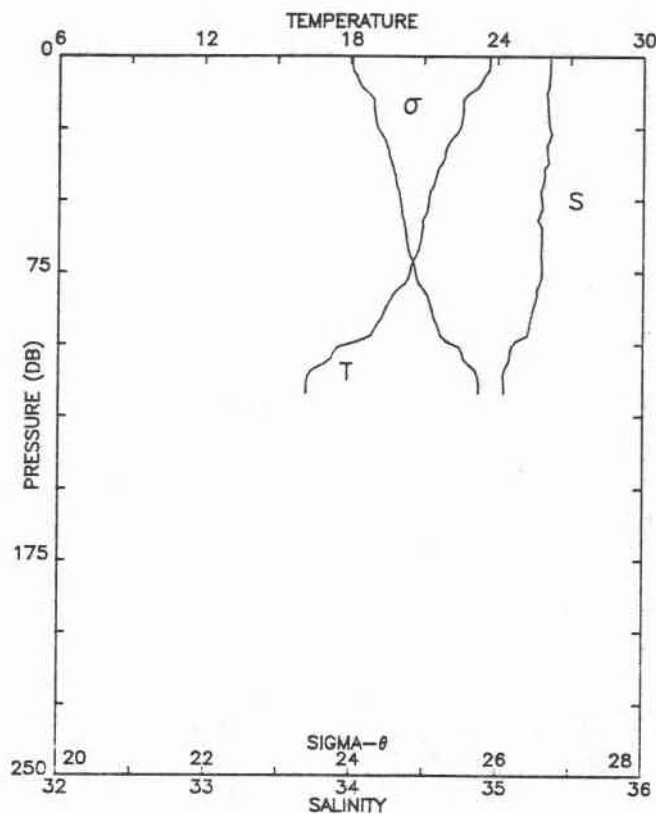
STATION 93 N-1

STA NO 93 N-1 LAT: 15 2.5 S LONG: 75 26.0 W
 20 FEB 1983 1308 GMT PROBE 2561 DEPTH 50M
 2.4 KM FROM SHORE

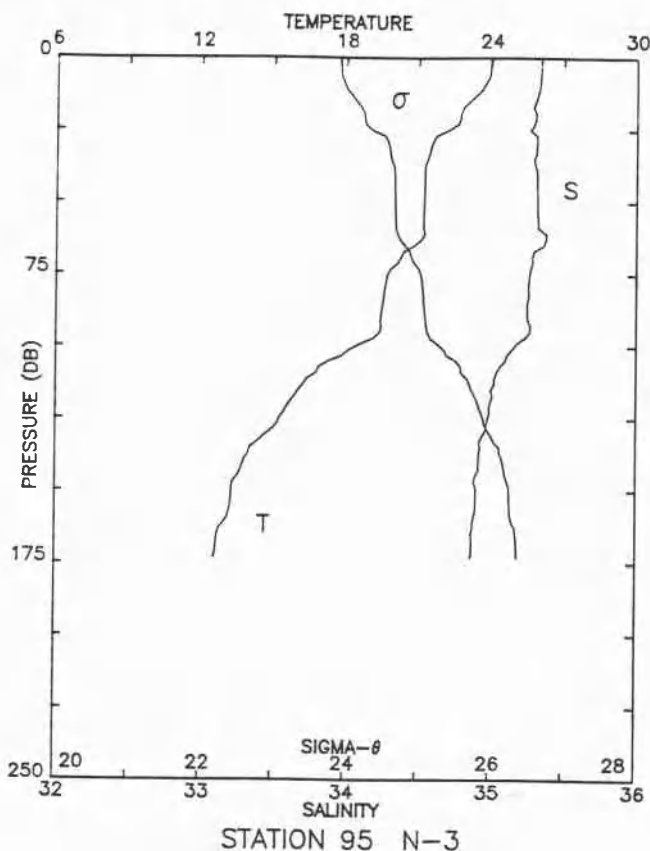
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	21.775	35.290	21.775	24.503	342.2	0.003
10	21.758	35.290	21.756	24.508	342.1	0.034
20	21.488	35.315	21.484	24.602	333.5	0.068
30	21.199	35.267	21.193	24.646	329.8	0.101
40	21.002	35.268	20.994	24.701	324.9	0.134
45	20.904	35.274	20.896	24.732	322.1	0.150

STA NO 94 N-2 LAT: 15 6.0 S LONG: 75 30.0 W
 20 FEB 1983 1405 GMT PROBE 2561 DEPTH 121M
 12.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	23.657	35.358	23.657	24.016	388.6	0.004
10	23.242	35.349	23.240	24.131	378.0	0.039
20	22.559	35.346	22.555	24.325	359.9	0.075
30	22.010	35.345	22.004	24.480	345.5	0.110
40	21.537	35.320	21.529	24.594	335.1	0.145
50	21.186	35.303	21.177	24.677	327.5	0.178
60	20.934	35.301	20.923	24.746	321.4	0.210
70	20.624	35.301	20.611	24.830	313.8	0.242
80	20.058	35.279	20.043	24.964	301.3	0.273
90	19.301	35.234	19.285	25.128	286.1	0.302
100	17.874	35.111	17.857	25.393	261.1	0.330
110	16.321	35.043	16.303	25.712	230.8	0.354
117	16.172	35.046	16.154	25.749	227.5	0.370



STATION 94 N-2



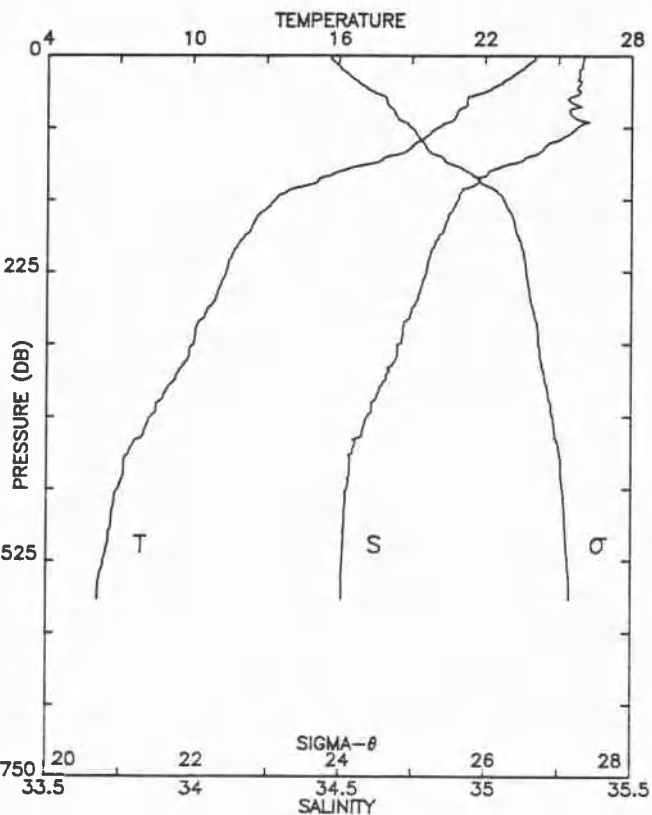
STA NO 95 N-3 LAT: 15 8.5 S LONG: 75 32.5 W
 20 FEB 1983 1453 GMT PROBE 2561 DEPTH 174M
 18.3 KM FROM SHORE

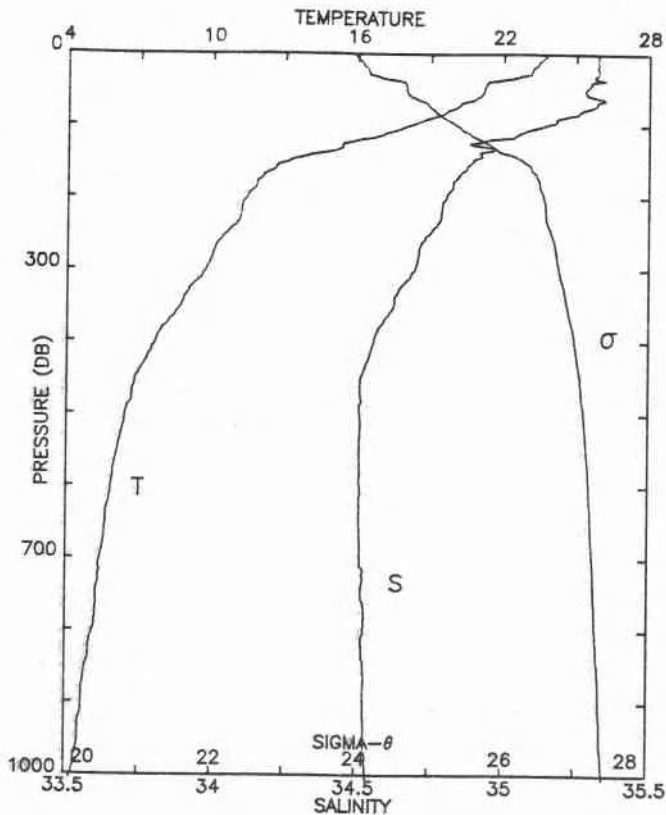
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	23.974	35.341	23.974	23.909	398.8	0.004
10	23.677	35.329	23.675	23.988	391.6	0.040
20	22.718	35.305	22.714	24.249	367.2	0.078
30	21.538	35.313	21.532	24.588	335.3	0.113
40	21.247	35.315	21.239	24.669	327.9	0.146
50	21.226	35.319	21.216	24.679	327.4	0.179
60	21.235	35.354	21.223	24.704	325.4	0.211
70	20.206	35.286	20.193	24.930	304.2	0.243
80	19.613	35.260	19.598	25.067	291.6	0.272
90	19.453	35.253	19.437	25.103	288.4	0.301
100	18.360	35.166	18.342	25.315	268.6	0.330
110	16.583	35.033	16.565	25.643	237.4	0.355
120	15.623	34.996	15.605	25.835	219.3	0.378
130	14.778	34.957	14.759	25.992	204.6	0.399
140	13.791	34.921	13.771	26.175	187.3	0.418
150	13.288	34.906	13.267	26.267	178.7	0.437
173	12.592	34.871	12.569	26.379	168.5	0.477

STA NO 96 N-4 LAT: 15 11.0 S LONG: 75 40.0 W
 20 FEB 1983 1543 GMT PROBE 2561 DEPTH 575M
 31.8 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.039	35.336	24.039	23.886	401.0	0.004
10	23.690	35.329	23.688	23.984	392.0	0.040
20	23.160	35.319	23.156	24.133	378.3	0.078
30	22.579	35.321	22.573	24.301	362.6	0.115
40	21.720	35.317	21.712	24.540	340.2	0.151
50	21.240	35.302	21.230	24.662	329.0	0.184
60	20.822	35.290	20.810	24.767	319.4	0.216
70	20.396	35.342	20.383	24.922	305.0	0.248
80	19.771	35.293	19.756	25.051	293.1	0.278
90	19.212	35.229	19.196	25.147	284.2	0.307
100	18.733	35.188	18.716	25.238	275.9	0.335
110	17.655	35.121	17.636	25.455	255.5	0.361
120	16.135	35.018	16.116	25.736	228.9	0.385
130	15.142	34.978	15.123	25.929	210.7	0.407
140	13.943	34.921	13.923	26.143	190.3	0.427
150	13.346	34.907	13.325	26.256	179.8	0.446
175	12.454	34.865	12.430	26.402	166.4	0.489
200	11.746	34.821	11.721	26.503	157.2	0.529
225	11.345	34.798	11.317	26.561	152.2	0.568
250	10.938	34.771	10.908	26.615	147.5	0.605
300	10.011	34.706	9.976	26.727	137.6	0.676
400	7.615	34.551	7.575	26.984	113.5	0.801
500	6.544	34.515	6.498	27.105	102.6	0.908
565	6.100	34.509	6.050	27.159	98.0	0.973

2 MIN GAP AT 361 DB





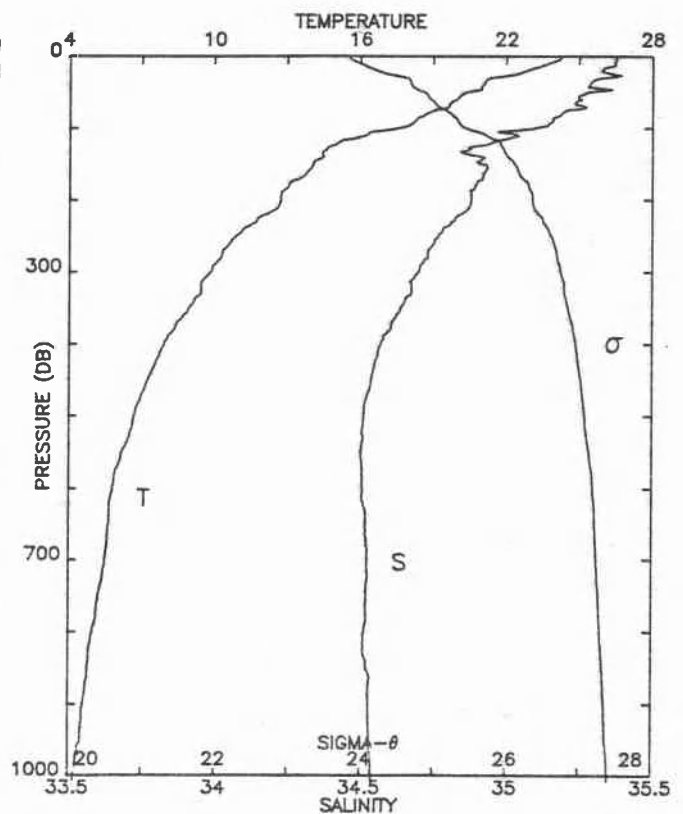
STATION 97 N-5

STA NO 97 N-5 LAT: 15 15.0 S LONG: 75 39.9 W
 20 FEB 1983 1707 GMT PROBE 2561 DEPTH 1300M
 36.3 KM FROM SHORE

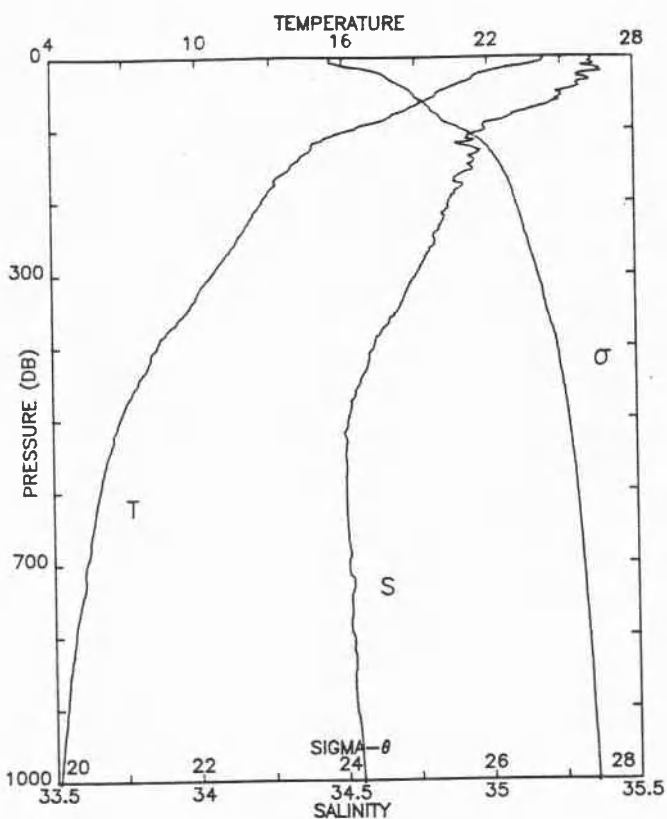
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	23.739	35.327	23.739	23.968	393.3	0.012
10	23.514	35.325	23.512	24.033	387.4	0.039
20	23.207	35.324	23.203	24.122	379.3	0.078
30	22.896	35.320	22.890	24.209	371.4	0.115
40	21.312	35.301	21.304	24.641	330.6	0.150
50	21.173	35.282	21.164	24.665	328.7	0.183
60	20.949	35.311	20.938	24.749	321.1	0.216
70	20.201	35.320	20.188	24.958	301.6	0.247
80	19.646	35.267	19.631	25.064	291.9	0.277
90	18.894	35.194	18.878	25.201	279.0	0.305
100	18.077	35.144	18.060	25.368	263.4	0.332
110	17.188	35.063	17.169	25.523	248.9	0.358
120	16.062	34.946	16.043	25.697	232.5	0.382
130	15.366	34.956	15.346	25.862	217.0	0.405
140	14.214	34.921	14.193	26.086	195.8	0.426
150	13.172	34.894	13.151	26.281	177.4	0.444
175	11.934	34.835	11.911	26.479	158.9	0.486
200	11.426	34.804	11.401	26.550	152.6	0.525
225	11.160	34.786	11.132	26.585	149.8	0.562
250	10.568	34.746	10.538	26.661	143.0	0.599
300	9.744	34.697	9.709	26.765	133.8	0.668
400	7.643	34.558	7.603	26.985	113.4	0.791
500	6.414	34.512	6.369	27.119	101.1	0.898
600	5.845	34.513	5.792	27.194	94.8	0.996
800	5.119	34.528	5.053	27.295	86.6	1.177
1000	4.256	34.539	4.179	27.401	77.1	1.341
1005	4.226	34.541	4.148	27.405	76.6	1.345

STA NO 98 N-6 LAT: 15 20.0 S LONG: 75 45.0 W
 20 FEB 1983 1911 GMT PROBE 2561 DEPTH 1726M
 49.2 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	24.233	35.377	24.232	23.859	403.6	0.012
10	23.761	35.370	23.759	23.994	391.0	0.040
20	22.864	35.328	22.859	24.224	369.5	0.078
30	21.525	35.347	21.519	24.617	332.5	0.113
40	21.044	35.284	21.037	24.701	324.8	0.146
50	20.442	35.291	20.433	24.870	309.1	0.178
60	19.975	35.252	19.964	24.965	300.5	0.208
70	19.632	35.268	19.619	25.067	291.1	0.238
80	18.715	35.190	18.701	25.243	274.6	0.266
90	18.253	35.157	18.238	25.335	266.2	0.293
100	17.621	35.098	17.605	25.445	256.0	0.319
110	16.254	35.040	16.236	25.725	229.6	0.344
120	15.121	34.952	15.103	25.913	211.8	0.366
130	14.595	34.873	14.575	25.967	206.9	0.387
140	14.481	34.921	14.461	26.029	201.3	0.407
150	14.064	34.919	14.042	26.116	193.2	0.427
175	13.136	34.902	13.112	26.295	176.7	0.473
200	12.722	34.879	12.695	26.360	171.1	0.517
225	11.784	34.825	11.755	26.500	158.1	0.558
250	10.890	34.767	10.859	26.620	147.0	0.597
300	9.835	34.698	9.801	26.750	135.3	0.667
400	7.913	34.570	7.873	26.956	116.4	0.793
500	6.688	34.513	6.641	27.084	104.7	0.903
600	5.799	34.509	5.747	27.197	94.5	1.003
800	4.989	34.515	4.924	27.300	86.0	1.183
1000	4.216	34.540	4.139	27.406	76.5	1.346
1007	4.204	34.541	4.126	27.408	76.4	1.351



STATION 98 N-6



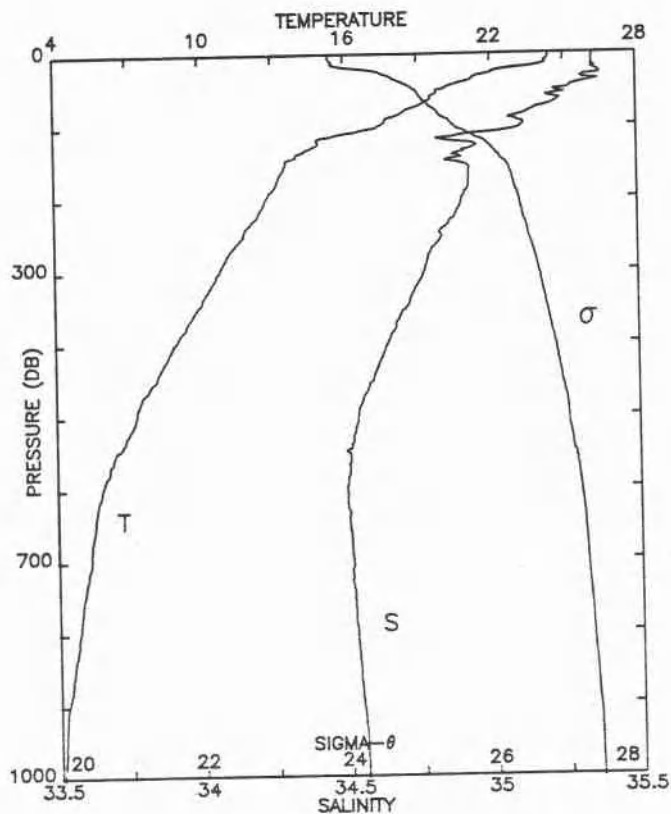
STATION 99 N-7

STA NO 99 N-7 LAT: 15 25.0 S LONG: 75 50.0 W
20 FEB 1983 2122 GMT PROBE 2561 DEPTH 3161M
62.0 KM FROM SHORE

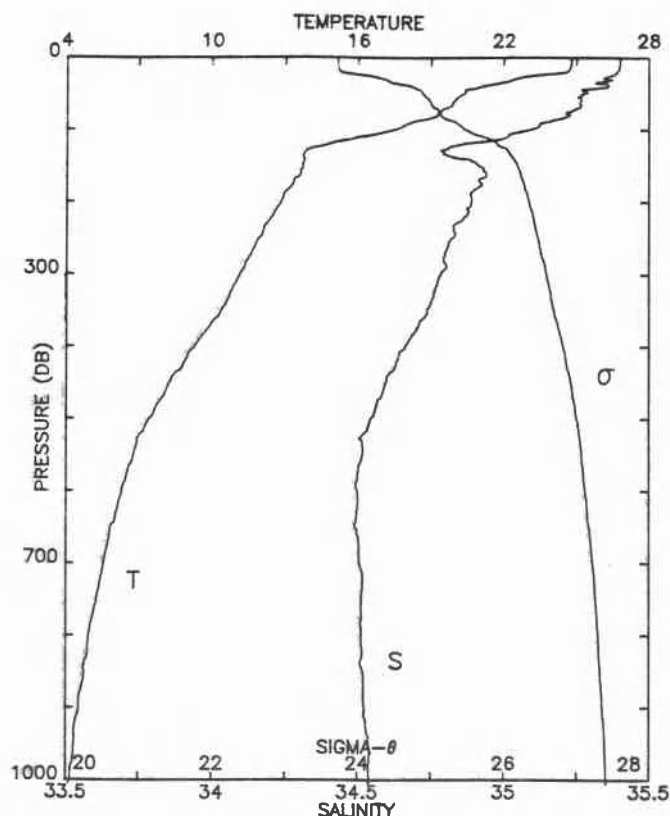
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.258	35.351	24.258	23.832	406.1	0.004
10	23.886	35.364	23.884	23.953	394.9	0.040
20	22.105	35.383	22.101	24.482	344.9	0.077
30	21.358	35.338	21.352	24.656	328.7	0.111
40	20.603	35.310	20.595	24.841	311.6	0.143
50	19.896	35.242	19.887	24.978	298.9	0.173
60	19.435	35.237	19.424	25.094	288.1	0.203
70	18.780	35.171	18.768	25.212	277.2	0.231
80	18.061	35.083	18.047	25.325	266.7	0.258
90	17.398	35.006	17.382	25.428	257.2	0.285
100	16.423	34.990	16.407	25.647	236.6	0.309
110	15.480	34.931	15.463	25.817	220.7	0.332
120	14.744	34.897	14.727	25.953	208.0	0.353
130	14.635	34.971	14.616	26.034	200.6	0.374
140	14.205	34.948	14.185	26.109	193.7	0.394
150	13.847	34.935	13.826	26.174	187.7	0.413
175	13.209	34.914	13.184	26.290	177.3	0.458
200	12.624	34.863	12.597	26.368	170.4	0.502
225	12.122	34.844	12.093	26.451	163.0	0.543
250	11.639	34.813	11.607	26.519	156.9	0.583
300	10.561	34.747	10.525	26.664	143.9	0.659
400	8.336	34.601	8.294	26.916	120.5	0.791
500	6.766	34.511	6.719	27.072	105.9	0.904
600	5.909	34.501	5.857	27.177	96.5	1.004
800	4.838	34.522	4.774	27.323	83.5	1.184
1000	4.125	34.551	4.049	27.424	74.6	1.342
1003	4.119	34.551	4.042	27.425	74.5	1.344

STA NO 100 N-8 LAT: 15 30.0 S LONG: 75 55.0 W
20 FEB 1983 2333 GMT PROBE 2561 DEPTH 4556M
74.9 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.382	35.349	24.382	23.794	409.8	0.004
10	24.277	35.347	24.275	23.824	407.3	0.041
20	23.283	35.352	23.279	24.121	379.4	0.081
30	21.614	35.347	21.608	24.592	334.8	0.116
40	20.828	35.331	20.821	24.796	315.8	0.149
50	19.926	35.240	19.917	24.968	299.8	0.179
60	19.524	35.198	19.513	25.041	293.2	0.209
70	19.172	35.209	19.159	25.141	284.0	0.238
80	18.455	35.134	18.441	25.266	272.4	0.266
90	17.742	35.071	17.727	25.395	260.5	0.293
100	17.417	35.106	17.400	25.501	250.7	0.318
110	16.211	34.970	16.193	25.681	233.7	0.342
120	14.849	34.856	14.831	25.899	213.1	0.365
130	14.623	34.934	14.604	26.008	203.0	0.385
140	13.979	34.880	13.959	26.103	194.1	0.405
150	13.555	34.885	13.534	26.196	185.5	0.424
175	13.225	34.921	13.200	26.292	177.0	0.469
200	12.728	34.897	12.701	26.373	169.9	0.513
225	12.369	34.872	12.339	26.425	165.6	0.555
250	11.803	34.826	11.771	26.498	159.0	0.595
300	10.804	34.767	10.767	26.637	146.6	0.671
400	8.927	34.639	8.883	26.854	126.9	0.808
500	7.284	34.535	7.235	27.020	111.4	0.927
600	5.823	34.493	5.771	27.181	96.0	1.030
800	4.830	34.523	4.766	27.324	83.4	1.209
1000	4.091	34.553	4.014	27.430	74.0	1.364
1003	4.079	34.554	4.002	27.431	73.8	1.366



STATION 100 N-8

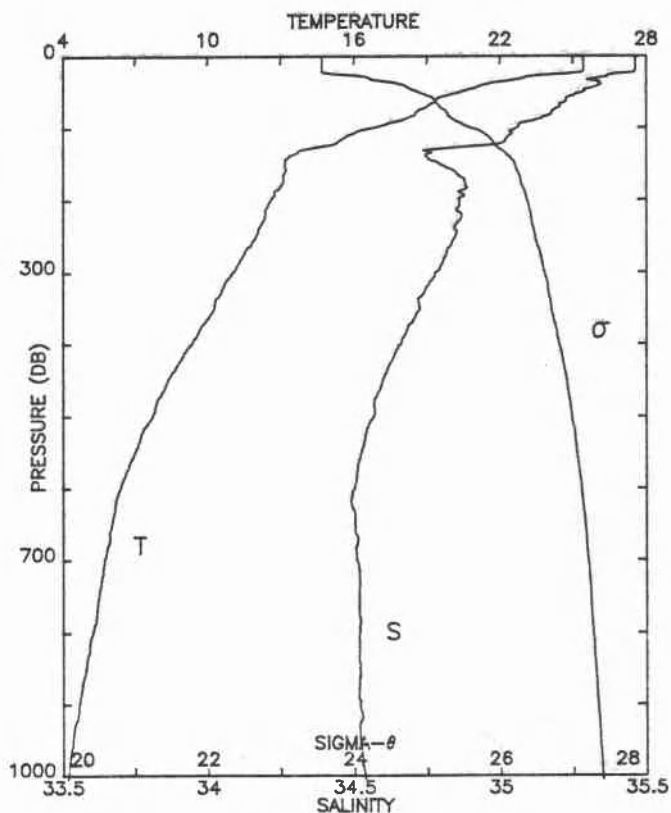


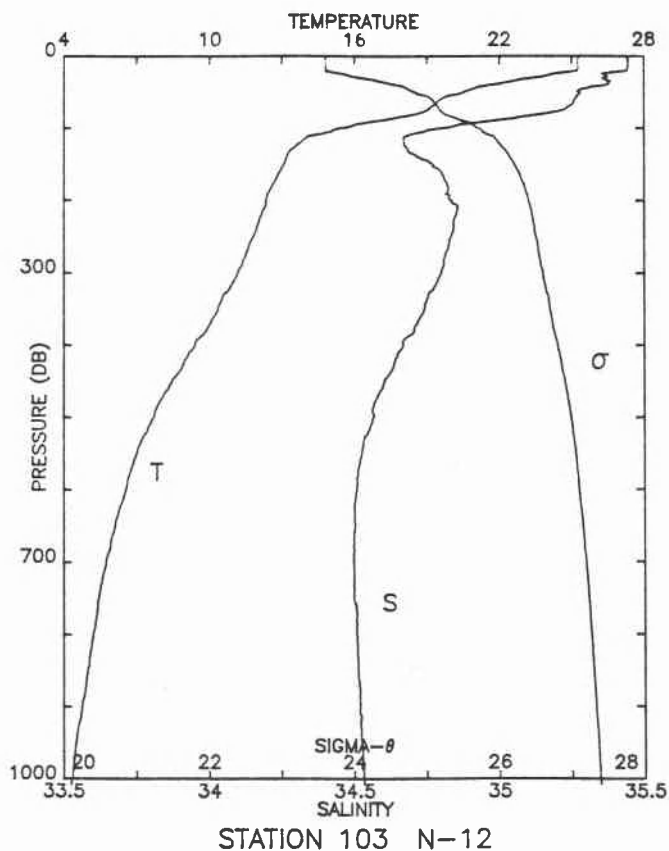
STA NO 101 N-10 LAT: 15 40.0 S LONG: 76 5.0 W
 21 FEB 1983 0202 GMT PROBE 2561 DEPTH 4144M
 101.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.786	35.401	24.786	23.712	417.6	0.004
10	24.776	35.401	24.774	23.714	417.7	0.042
20	24.598	35.391	24.594	23.761	413.7	0.083
30	22.475	35.359	22.469	24.359	357.1	0.122
40	21.134	35.359	21.126	24.734	321.7	0.156
50	20.335	35.278	20.325	24.889	307.4	0.187
60	19.956	35.265	19.945	24.980	299.1	0.217
70	19.614	35.256	19.601	25.063	291.5	0.247
80	19.249	35.226	19.234	25.135	285.0	0.276
90	18.185	35.142	18.170	25.340	265.8	0.304
100	17.472	35.090	17.456	25.475	253.2	0.330
110	16.113	35.011	16.096	25.735	228.6	0.354
120	14.805	34.857	14.787	25.909	212.1	0.376
130	13.829	34.787	13.811	26.063	197.6	0.396
140	13.763	34.862	13.743	26.135	191.0	0.416
150	13.705	34.917	13.684	26.190	186.2	0.434
175	13.293	34.925	13.269	26.281	178.1	0.480
200	12.816	34.887	12.788	26.348	172.3	0.524
225	12.355	34.856	12.325	26.415	166.4	0.566
250	11.914	34.820	11.882	26.473	161.5	0.607
300	11.137	34.782	11.100	26.588	151.4	0.685
400	9.275	34.662	9.231	26.816	130.8	0.827
500	7.438	34.544	7.389	27.005	113.0	0.948
600	6.312	34.499	6.257	27.124	102.1	1.055
800	4.946	34.514	4.881	27.304	85.5	1.241
1000	4.151	34.541	4.074	27.414	75.6	1.402
1005	4.112	34.540	4.035	27.417	75.3	1.406

STA NO 102 N-11 LAT: 15 50.1 S LONG: 76 15.0 W
 21 FEB 1983 0413 GMT PROBE 2561 DEPTH 3505M
 126.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
3	25.422	35.462	25.421	23.564	431.8	0.013
10	25.427	35.463	25.424	23.563	432.2	0.043
20	25.431	35.462	25.426	23.562	432.8	0.086
30	23.012	35.347	23.006	24.197	372.6	0.127
40	21.348	35.343	21.340	24.663	328.5	0.162
50	20.384	35.286	20.374	24.881	308.1	0.194
60	19.399	35.226	19.388	25.096	288.0	0.224
70	19.029	35.204	19.017	25.174	280.9	0.252
80	18.521	35.175	18.507	25.281	271.0	0.280
90	17.901	35.113	17.885	25.388	261.1	0.307
100	16.817	35.058	16.801	25.607	240.6	0.332
110	15.835	35.034	15.817	25.817	220.8	0.355
120	15.338	35.011	15.319	25.911	212.1	0.376
130	13.987	34.767	13.969	26.014	202.2	0.397
140	13.336	34.749	13.316	26.135	190.9	0.417
150	13.179	34.793	13.158	26.201	184.9	0.435
175	13.094	34.878	13.070	26.285	177.6	0.481
200	12.601	34.859	12.574	26.369	170.2	0.524
225	12.330	34.865	12.300	26.427	165.3	0.566
250	11.982	34.846	11.949	26.480	160.8	0.607
300	11.027	34.780	10.990	26.606	149.6	0.684
400	9.328	34.659	9.283	26.806	131.8	0.825
500	7.709	34.566	7.658	26.984	115.4	0.947
600	6.384	34.501	6.329	27.116	102.9	1.056
800	5.237	34.518	5.170	27.273	88.9	1.247
1000	4.232	34.536	4.154	27.401	77.0	1.412
1005	4.209	34.537	4.131	27.404	76.7	1.416



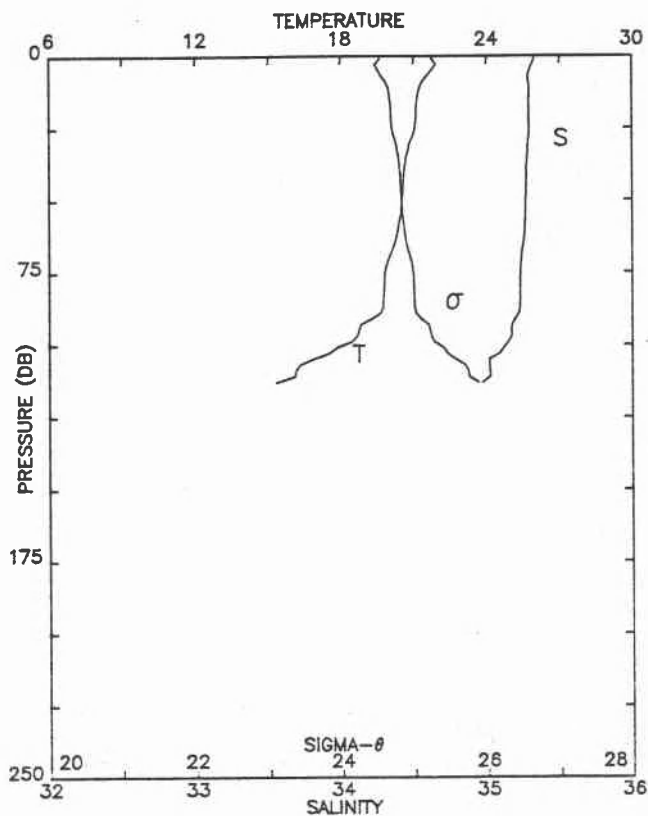


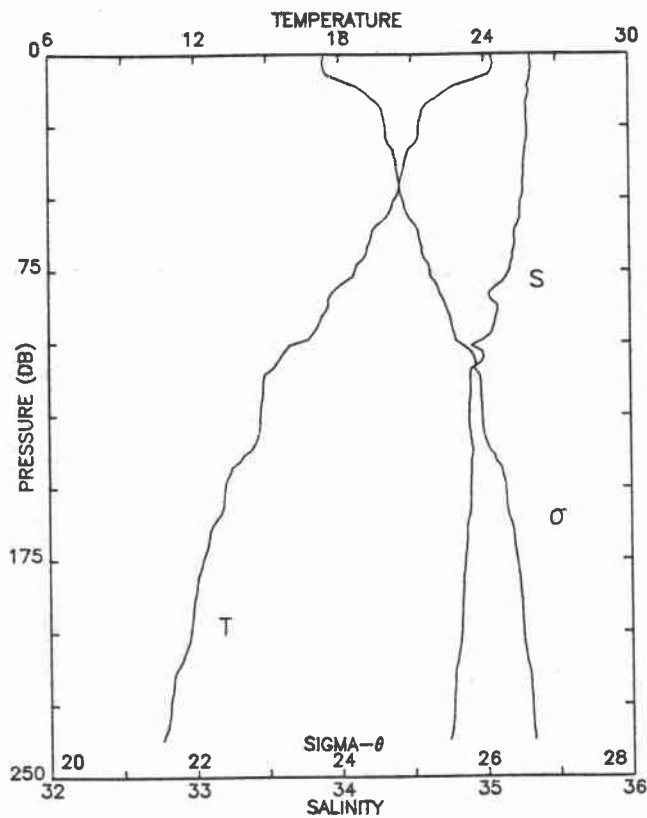
STA NO 103 N-12 LAT: 15 59.9 S LONG: 76 24.9 W
 21 FEB 1983 0630 GMT PROBE 2561 DEPTH 3185M
 152.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.264	35.441	25.264	23.596	428.6	0.004
10	25.260	35.445	25.258	23.601	428.6	0.043
20	25.248	35.441	25.244	23.602	428.9	0.086
30	23.580	35.365	23.573	24.045	387.1	0.127
40	21.754	35.370	21.746	24.572	337.2	0.163
50	20.526	35.275	20.516	24.835	312.5	0.195
60	19.582	35.261	19.571	25.074	290.0	0.225
70	19.202	35.240	19.190	25.157	282.5	0.254
80	18.620	35.161	18.606	25.245	274.4	0.282
90	16.944	34.979	16.929	25.516	248.9	0.308
100	15.502	34.808	15.486	25.717	229.9	0.332
110	14.353	34.686	14.337	25.874	215.0	0.354
120	13.789	34.672	13.772	25.982	205.0	0.375
130	13.403	34.686	13.385	26.072	196.6	0.395
140	13.210	34.721	13.190	26.139	190.5	0.414
150	13.089	34.771	13.068	26.202	184.8	0.433
175	12.691	34.818	12.668	26.319	174.3	0.478
200	12.345	34.833	12.318	26.399	167.3	0.520
225	12.071	34.845	12.041	26.461	162.0	0.561
250	11.813	34.833	11.781	26.501	158.7	0.602
300	11.164	34.799	11.126	26.597	150.6	0.679
400	9.390	34.669	9.345	26.803	132.1	0.821
500	7.692	34.567	7.642	26.987	115.1	0.944
600	6.550	34.508	6.494	27.100	104.6	1.053
800	5.202	34.507	5.136	27.269	89.2	1.245
1000	4.333	34.533	4.254	27.388	78.5	1.412
1007	4.293	34.535	4.215	27.394	77.9	1.418

STA NO 104 PA-1 LAT: 16 15.0 S LONG: 73 42.5 W
 21 FEB 1983 2138 GMT PROBE 2561 DEPTH 117M
 2.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	21.747	35.326	21.746	24.538	338.8	0.003
10	21.293	35.289	21.291	24.636	329.9	0.034
20	21.087	35.289	21.083	24.692	324.9	0.066
30	20.835	35.282	20.830	24.756	319.2	0.099
40	20.593	35.270	20.585	24.813	314.2	0.130
50	20.495	35.264	20.485	24.836	312.4	0.162
60	20.338	35.257	20.326	24.873	309.3	0.193
70	19.965	35.234	19.952	24.954	301.9	0.223
80	19.767	35.226	19.752	25.001	297.8	0.253
90	19.450	35.204	19.433	25.066	291.9	0.283
100	18.136	35.128	18.119	25.341	266.0	0.311
110	16.087	35.018	16.070	25.746	227.5	0.335
113	15.344	34.971	15.327	25.878	214.9	0.342



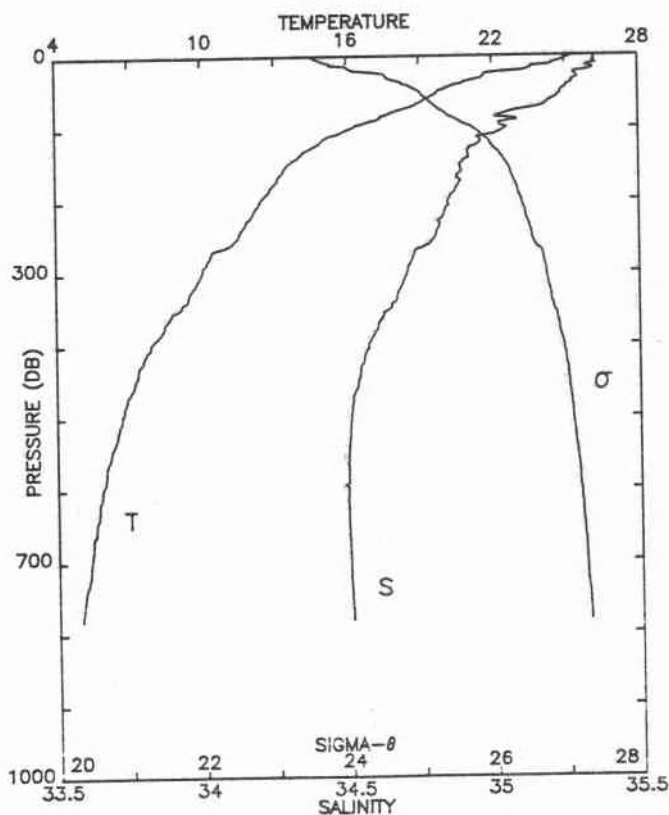


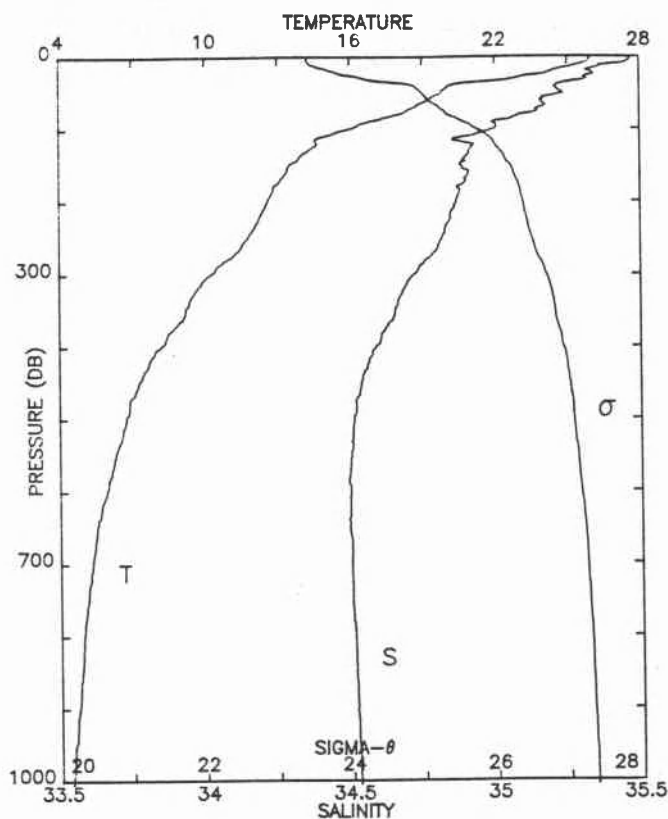
STA NO 105 PA-2 LAT: 16 19.1 S LONG: 73 45.2 W
 21 FEB 1983 2231 GMT PROBE 2561 DEPTH 246M
 11.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	24.332	35.321	24.331	23.788	410.4	0.004
10	23.153	35.308	23.151	24.125	378.6	0.040
20	21.419	35.292	21.415	24.604	333.3	0.075
30	21.196	35.292	21.190	24.666	327.8	0.109
40	20.648	35.270	20.641	24.798	315.6	0.140
50	20.321	35.254	20.312	24.874	308.7	0.172
60	19.487	35.216	19.476	25.065	290.9	0.202
70	19.051	35.190	19.038	25.158	282.5	0.231
80	18.044	35.094	18.030	25.337	265.6	0.258
90	17.332	35.079	17.317	25.500	250.4	0.284
100	16.290	34.944	16.274	25.642	237.1	0.308
110	15.045	34.895	15.028	25.886	214.1	0.330
120	14.756	34.888	14.738	25.943	208.8	0.351
130	14.654	34.887	14.634	25.965	207.1	0.372
140	13.911	34.900	13.891	26.134	191.2	0.392
150	13.212	34.890	13.191	26.270	178.4	0.411
175	12.277	34.848	12.254	26.423	164.3	0.454
200	11.744	34.819	11.718	26.502	157.2	0.494
225	10.883	34.764	10.855	26.618	146.6	0.531
237	10.575	34.736	10.546	26.652	143.5	0.549

STA NO 106 PA-3 LAT: 16 22.9 S LONG: 73 47.4 W
 21 FEB 1983 2352 GMT PROBE 2561 DEPTH 813M
 19.1 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.221	35.352	25.221	23.542	433.8	0.004
10	24.590	35.352	24.588	23.734	415.9	0.043
20	23.376	35.335	23.372	24.081	383.2	0.083
30	21.596	35.293	21.591	24.556	338.3	0.118
40	20.581	35.263	20.573	24.811	314.4	0.150
50	19.751	35.233	19.742	25.009	295.9	0.181
60	19.293	35.210	19.282	25.111	286.6	0.210
70	18.744	35.170	18.732	25.221	276.4	0.238
80	17.800	35.047	17.787	25.361	263.3	0.265
90	17.140	35.069	17.125	25.538	246.8	0.291
100	16.230	35.048	16.214	25.736	228.2	0.314
110	15.486	34.986	15.469	25.858	216.8	0.337
120	14.910	34.956	14.891	25.963	207.1	0.358
130	14.373	34.916	14.354	26.048	199.1	0.378
140	13.979	34.917	13.959	26.132	191.4	0.398
150	13.546	34.888	13.525	26.200	185.2	0.416
175	13.025	34.884	13.001	26.303	175.9	0.461
200	12.417	34.845	12.391	26.394	167.8	0.504
225	11.969	34.822	11.939	26.463	161.8	0.546
250	11.505	34.801	11.474	26.534	155.4	0.585
300	9.995	34.703	9.960	26.727	137.5	0.657
400	7.868	34.569	7.828	26.961	115.8	0.784
500	6.665	34.506	6.619	27.082	104.9	0.894
600	5.826	34.493	5.774	27.181	96.0	0.995
781	4.947	34.506	4.883	27.298	85.9	1.159





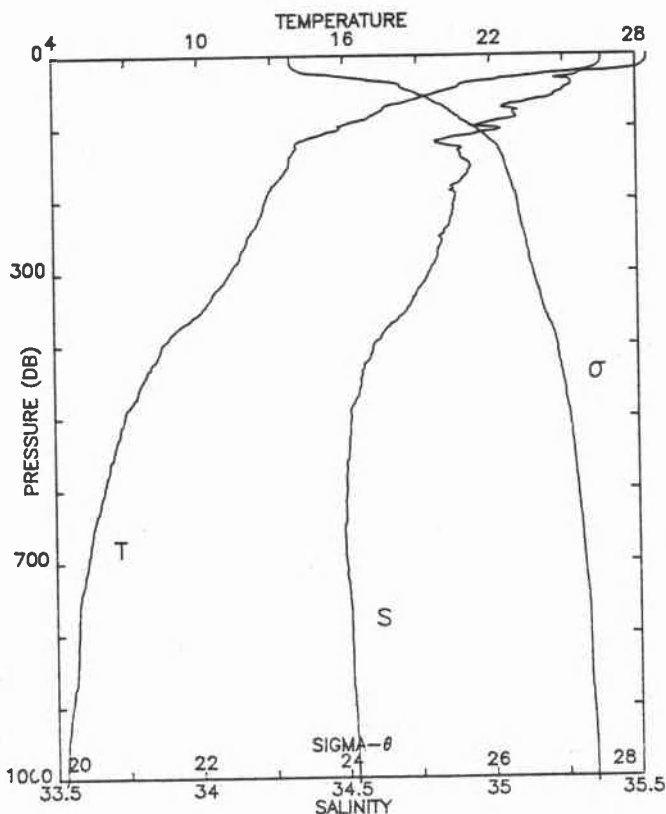
STATION 107 PA-4

STA NO 107 PA-4 LAT: 16 27.0 S LONG: 73 50.0 W
 22 FEB 1983 0109 GMT PROBE 2561 DEPTH 1279M
 27.9 KM FROM SHORE

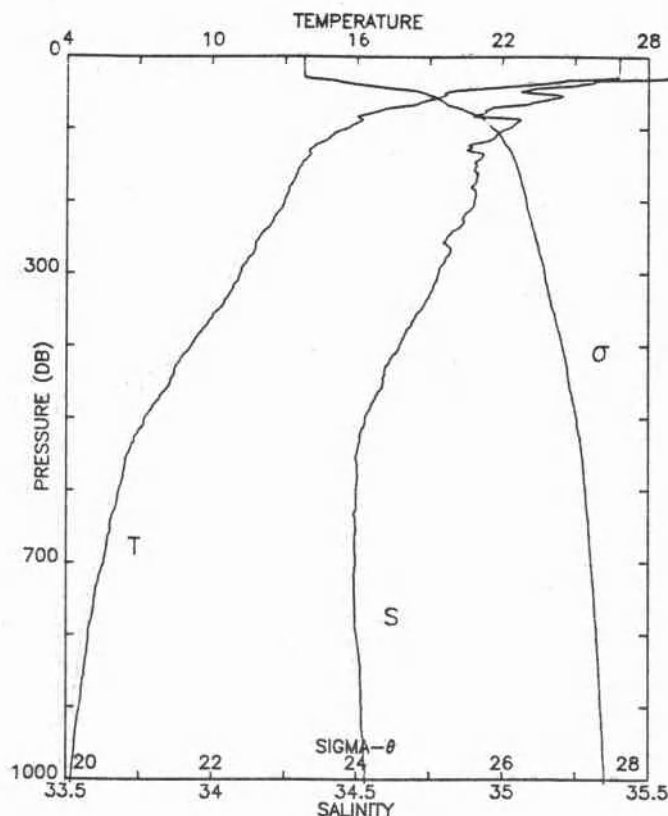
PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	25.903	35.463	25.903	23.415	445.9	0.004
10	25.680	35.421	25.678	23.453	442.7	0.045
20	24.426	35.322	24.422	23.761	413.7	0.088
30	22.940	35.312	22.934	24.191	373.2	0.127
40	20.175	35.213	20.168	24.881	307.7	0.161
50	19.776	35.232	19.767	25.002	296.6	0.191
60	19.240	35.161	19.230	25.086	288.9	0.220
70	18.656	35.162	18.644	25.237	274.9	0.249
80	17.988	35.099	17.975	25.355	263.9	0.276
90	16.767	34.996	16.753	25.571	243.6	0.301
100	15.990	34.998	15.974	25.753	226.6	0.324
110	15.010	34.909	14.993	25.904	212.3	0.346
120	14.624	34.913	14.606	25.992	204.2	0.367
130	14.285	34.911	14.266	26.063	197.7	0.387
140	13.893	34.894	13.873	26.133	191.3	0.406
150	13.492	34.882	13.471	26.206	184.5	0.425
175	13.016	34.893	12.992	26.312	175.1	0.470
200	12.573	34.865	12.546	26.379	169.3	0.513
225	12.204	34.842	12.175	26.433	164.7	0.555
250	11.745	34.815	11.713	26.501	158.7	0.595
300	10.237	34.718	10.202	26.698	140.5	0.671
400	8.181	34.586	8.139	26.928	119.2	0.800
500	6.737	34.510	6.690	27.075	105.6	0.910
600	5.913	34.497	5.861	27.173	96.9	1.012
800	4.929	34.510	4.864	27.302	85.6	1.193
1000	4.448	34.525	4.369	27.369	80.5	1.359
1005	4.444	34.525	4.365	27.370	80.5	1.363

STA NO 108 PA-5 LAT: 16 31.0 S LONG: 73 52.5 W
 22 FEB 1983 0233 GMT PROBE 2561 DEPTH 1123M
 36.6 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.569	35.538	26.569	23.263	460.5	0.005
10	26.562	35.536	26.560	23.264	460.8	0.046
20	26.155	35.488	26.151	23.357	452.4	0.092
30	23.525	35.287	23.519	24.001	391.2	0.135
40	20.878	35.278	20.870	24.742	321.0	0.170
50	20.099	35.247	20.090	24.927	303.7	0.201
60	19.079	35.202	19.069	25.159	282.0	0.231
70	17.852	35.056	17.841	25.355	263.5	0.258
80	17.399	35.080	17.386	25.484	251.6	0.284
90	16.769	35.047	16.754	25.609	239.9	0.308
100	15.802	34.985	15.787	25.786	223.4	0.331
110	15.085	34.946	15.068	25.916	211.2	0.353
120	14.107	34.813	14.089	26.025	201.0	0.374
130	13.976	34.895	13.958	26.116	192.6	0.393
140	13.751	34.898	13.731	26.165	188.2	0.412
150	13.711	34.929	13.690	26.198	185.4	0.431
175	13.190	34.897	13.165	26.280	178.2	0.477
200	12.729	34.876	12.702	26.357	171.5	0.520
225	12.463	34.861	12.433	26.398	168.1	0.563
250	12.009	34.825	11.976	26.458	162.9	0.604
300	11.246	34.787	11.208	26.572	152.9	0.683
400	8.450	34.595	8.408	26.894	122.7	0.822
500	6.876	34.517	6.829	27.062	107.1	0.937
600	6.017	34.498	5.964	27.161	98.1	1.040
800	4.895	34.510	4.830	27.306	85.2	1.221
1000	4.356	34.528	4.277	27.382	79.1	1.385
1007	4.321	34.530	4.242	27.387	78.6	1.390



STATION 108 PA-5

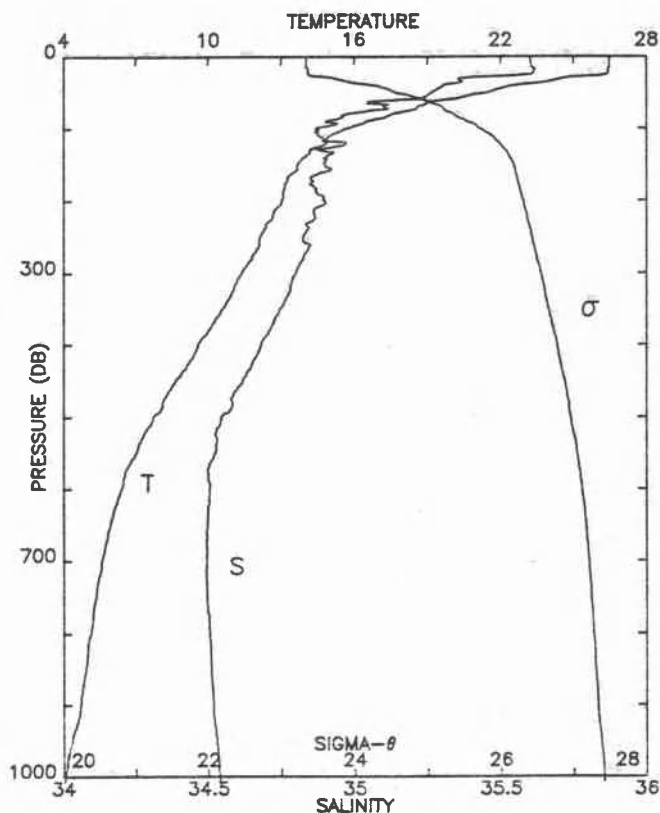


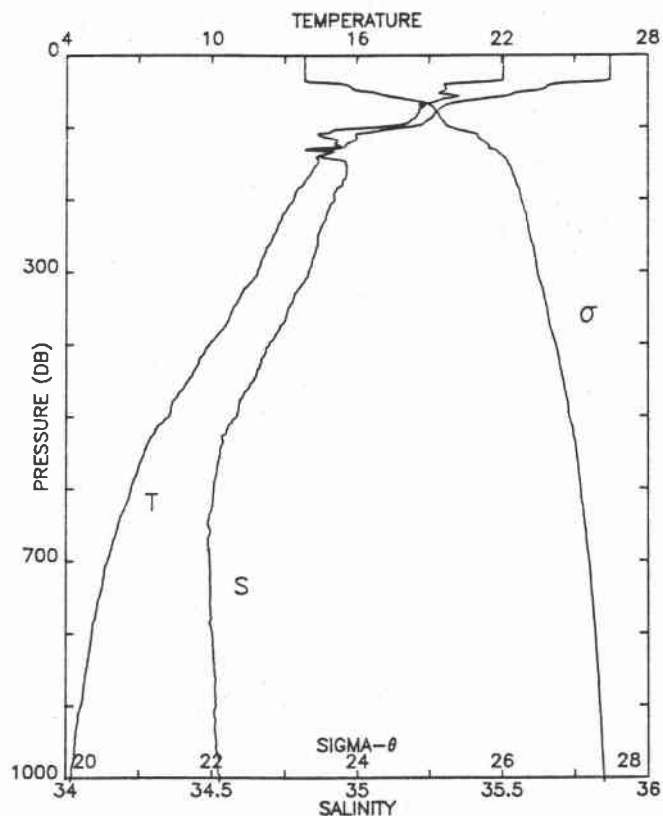
STA NO 109 PA-7 LAT: 16 40.0 S LONG: 73 57.5 W
 22 FEB 1983 0418 GMT PROBE 2561 DEPTH 3149M
 55.3 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELO
1	26.823	35.634	26.822	23.254	461.3	0.005
10	26.828	35.634	26.826	23.253	461.8	0.046
20	26.815	35.632	26.811	23.257	461.9	0.092
30	26.481	35.574	26.474	23.319	456.4	0.138
40	22.984	35.260	22.976	24.139	378.5	0.180
50	19.669	35.089	19.660	24.920	304.3	0.214
60	18.982	35.157	18.971	25.150	282.8	0.243
70	17.651	34.992	17.639	25.355	263.5	0.271
80	16.405	34.927	16.392	25.602	240.2	0.296
90	16.128	35.058	16.114	25.767	224.9	0.319
100	15.542	35.019	15.526	25.870	215.3	0.341
110	14.935	34.976	14.919	25.972	205.9	0.362
120	14.440	34.912	14.422	26.030	200.5	0.382
130	14.001	34.884	13.982	26.102	193.9	0.402
140	13.928	34.928	13.908	26.151	189.5	0.421
150	13.682	34.912	13.661	26.190	186.1	0.440
175	13.314	34.907	13.290	26.263	179.8	0.485
200	12.972	34.903	12.944	26.329	174.1	0.530
225	12.518	34.861	12.488	26.388	169.1	0.573
250	11.945	34.809	11.912	26.458	162.9	0.614
300	11.162	34.779	11.125	26.581	152.0	0.693
400	9.142	34.646	9.098	26.825	129.8	0.834
500	7.221	34.530	7.173	27.024	111.0	0.955
600	6.149	34.498	6.095	27.144	99.9	1.060
800	4.900	34.501	4.835	27.298	85.9	1.245
1000	4.194	34.531	4.117	27.401	76.9	1.407
1005	4.189	34.532	4.111	27.403	76.8	1.411

STA NO 110 PA-8 LAT: 16 49.9 S LONG: 74 4.0 W
 22 FEB 1983 0623 GMT PROBE 2561 DEPTH 5179M
 77.0 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELO
1	26.459	35.603	26.459	23.346	452.5	0.005
10	26.467	35.605	26.465	23.346	453.0	0.045
20	26.421	35.616	26.416	23.369	451.2	0.090
30	24.712	35.381	24.705	23.720	418.1	0.135
40	22.716	35.308	22.708	24.252	367.7	0.174
50	21.495	35.266	21.485	24.565	338.3	0.210
60	19.921	35.191	19.910	24.932	303.6	0.242
70	18.606	35.100	18.594	25.202	278.2	0.270
80	17.589	34.981	17.575	25.363	263.2	0.298
90	16.561	34.907	16.547	25.551	245.5	0.323
100	15.711	34.872	15.695	25.719	229.7	0.347
110	15.021	34.878	15.005	25.878	214.8	0.369
120	14.872	34.972	14.854	25.983	205.1	0.390
130	14.177	34.884	14.158	26.065	197.5	0.410
140	13.932	34.902	13.912	26.131	191.5	0.430
150	13.681	34.900	13.660	26.182	186.9	0.448
175	13.205	34.854	13.181	26.244	181.6	0.495
200	13.034	34.898	13.007	26.313	175.7	0.539
225	12.613	34.866	12.583	26.373	170.6	0.582
250	12.140	34.825	12.107	26.433	165.3	0.624
300	11.395	34.801	11.357	26.555	154.6	0.704
400	9.585	34.681	9.540	26.781	134.4	0.849
500	7.727	34.544	7.676	26.964	117.3	0.975
600	6.396	34.505	6.341	27.118	102.7	1.085
800	5.123	34.504	5.057	27.276	88.5	1.274
1000	4.082	34.539	4.006	27.419	74.9	1.438
1007	4.044	34.541	3.967	27.424	74.4	1.443





STATION 111 PA-9

STA NO 111 PA-9 LAT: 16 59.9 S LONG: 74 10.0 W
 22 FEB 1983 0840 GMT PROBE 2561 DEPTH 7180M
 98.4 KM FROM SHORE

PRESS	TEMP	SAL	POTEN TEMP	SIGMA THETA	SVA	DELD
1	26.443	35.505	26.442	23.278	459.0	0.005
10	26.447	35.505	26.444	23.277	459.5	0.046
20	26.452	35.505	26.447	23.276	460.1	0.092
30	26.448	35.504	26.442	23.277	460.4	0.138
40	24.303	35.328	24.295	23.803	410.6	0.183
50	23.148	35.298	23.138	24.121	380.7	0.223
60	21.408	35.314	21.396	24.625	332.9	0.258
70	19.648	35.224	19.635	25.030	294.7	0.289
80	19.276	35.213	19.261	25.118	286.6	0.318
90	18.935	35.188	18.919	25.187	280.4	0.347
100	18.032	35.049	18.015	25.307	269.2	0.374
110	15.940	34.867	15.923	25.664	235.3	0.400
120	15.717	34.928	15.698	25.762	226.3	0.423
130	14.917	34.833	14.897	25.866	216.5	0.445
140	14.364	34.875	14.344	26.018	202.3	0.466
150	14.362	34.962	14.340	26.086	196.1	0.486
175	13.828	34.949	13.803	26.190	186.9	0.534
200	13.361	34.922	13.333	26.265	180.3	0.579
225	12.879	34.892	12.848	26.340	173.8	0.624
250	12.518	34.864	12.485	26.390	169.6	0.667
300	11.874	34.832	11.835	26.491	161.1	0.749
400	9.900	34.696	9.854	26.740	138.5	0.899
500	8.239	34.585	8.187	26.920	121.9	1.028
600	6.683	34.506	6.627	27.081	106.6	1.141
800	5.075	34.502	5.009	27.280	88.0	1.334
1000	4.213	34.528	4.135	27.396	77.4	1.499
1005	4.177	34.528	4.100	27.401	77.0	1.503

PROFILE PLOTS AND LISTINGS

WL83L3

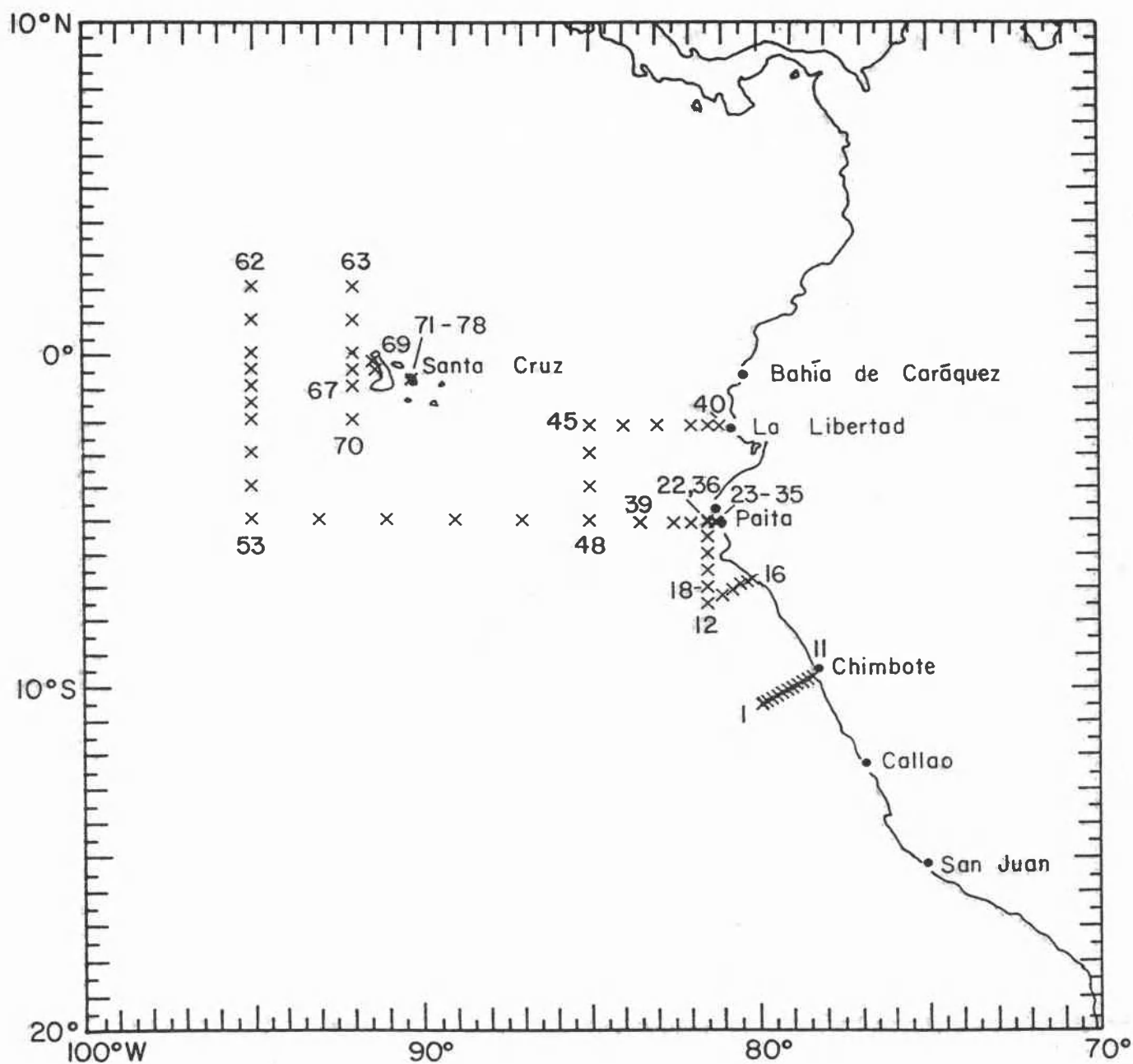


Figure 2. Location of CTD stations during WL83L3, 1-23 March 1983.

Table 10. List of stations occupied during WL83L3 showing date, time, location, wind speed and direction and atmospheric pressure.

Date (1983)	Time (GMT)	Station No. Name	Location		Wind		Pressure (mb)
			Lat.	Long.	Dir (°T)	Spd (kts)	
Mar	2	0818	1	D-11	10°30.0S	79°53.9W	140 12 1009.5
	2	1001	1-2	D-11	10 28.6S	79 52.3	150 10 1010.0
	2	1220	2	D-10	10 25.1S	79 44.9	150 10 1010.5
	2	1529	3	D-9	10 20.0S	79 36.0	150 10 1012.0
	2	1739	4	D-8	10 15.0S	79 27.0	170 4 1011.9
	2	2037	5	D-7	10 10.0S	79 18.0	140 8 1009.7
	2	2245	6	D-6	10 05.0S	79 09.1	160 10 1009.5
	3	0139	7	D-5	10 00.0S	79 00.0	150 12 1010.0
	3	0350	8	D-4	9 55.0S	78 51.0	150 10 1011.6
	3	0719	9	D-3	9 49.5S	78 42.9	150 10 1009.1
	3	1002	10	D-2	9 45.0S	78 33.0	140 12 1008.8
	3	1231	11	D-1	9 40.5S	78 24.5	140 8 1009.5
	4	0725	12	C-9	7 30.0S	81 30.0	150 6 1010.0
	4	1301	13	C-7	7 15 0S	81 04.0	140 6 1011.0
	4	1609	14	C-5	7 05.0S	80 46.0	130 12 1010.5
	4	1937	15	C-3	6 54.4S	80 31.7	150 12 1008.4
	4	2248	16	C-1	6 45.0S	80 11.0	195 14 1008.0
	5	0101	17	C-2	6 50.0S	80 20.0	160 10 1009.0
	5	0756	18	L-2	6 59 9S	81 30.0	130 10 1009.7
	5	1240	19	L-3	6 30.0S	81 30.0	140 10 1010.0
	5	1626	20	L-4	6 00.0S	81 30.0	150 10 1010.4
	5	2112	21	L-5	5 29.9S	81 30.1	210 12 1017.2
	5	2239	21-2	L-5	5 29.9S	81 30.1	210 12 1017.2
	5	2317	21-3	L-5	5 29.9S	81.30.1	210 12 1017.2
	6	0223	22	L-6	5 00.0S	81 30.0	190 14 1009.0
	6	0537	23	B-10A	5 03.4S	81 16.4	150 12 1010.4
	6	0857	24	B-10A	5 03.4S	81 16.4	150 10 1010.4
	6	0948	24-2	B-10A	5 03.4S	81 16.4	150 10 1010.4
	6	1247	25	B-10A	5 03.6S	81 16.5	150 7 1009.8
	6	2003	26	B-10A	5 04.1S	81 16.0	220 10 1007.3
	6	2302	27	B-10A	5 04.0S	81 17.0	220 14 1007.2
	7	0221	28	B-10A	5 04.0S	81 17.0	220 14 1009.1
	7	0500	29	B-10A	5 04.6S	81 17.5	170 14 1011.0
	7	0806	30	B-10A	5 04.0S	81 16.0	150 8 1008.9
	7	1101	31	B-10A	5 04.0S	81 17.0	150 8 1009.0
	7	1405	32	B-10A	5 04 0S	81 17.0	100 12 1009.0
	7	1633	33	B-12A	5 05.0S	81 11.0	200 5 1009.0
	7	1800	34	B-11A	5 05.1S	81 14.0	230 6 1007.9
	7	2003	35	B-10A	5 05.0S	81 16.0	230 6 1007.0
	7	1983	35-2	B-10A	5 05.0S	81.16.0	230 6 1007.0
	7	2232	36	B-9A	5 05.0S	81 30.0	230 24 1006.2
	8	0006	36-2	B-9A	5 05.0S	81 30.0	230 14 1006.2
	8	0435	37	B-7A	5 05.0S	82 00.0	180 12 1009.1
	8	0812	38	B-5A	5 05.0S	82 30.0	150 14 1008.0
	8	1529	39	B-31	5 05.0S	83 30.0	140 12 1008.9
	9	1956	40	S-6	2 10.6S	81 09.7	airs -- 1005.6
	9	2323	41	S-5	2 10.0S	81 30.0	airs -- 1004.5

Table 10 cont'd.

Date (1983)	Time (GMT)	Station No. Name	Location		Wind		Pressure (mb)
			Lat.	Long.	Dir (°T)	Spd (kts)	
Mar 10	0411	42 S-4	2 10.0S	82 00.0	200	5	1008.0
10	1030	43 S-3	2°10.0S	83°00.0	180	7	1007.0
10	1826	44 S-2	2 10.5S	84 00.9	150	10	1008.4
10	0018	45 S-1	2 10.0S	85 00.0W	airs	--	1007.0
11	0749	46 A-13	3 00.0S	85.00.0	170	7	1008.0
11	1415	47 A-15	4 00.0S	85.00.0	090	10	1009.2
11	2253	48 A-17	5 00.9S	84 59.7	airs	--	1006.2
12	1049	49 B-2B	5 00.0S	87 00.0	160	10	1008.0
13	0012	50 B-4B	5 00.0S	89 00.0	airs	--	1007.5
13	1124	51 B-6B	5 00.0S	91 00.0	140	15	1007.0
13	2346	52 B-8B	5 00.0S	93 00.0	180	15	1006.9
14	1103	53 B-10B	5 00.0S	95 00.0	170	15	1008.0
14	1813	54 G-9	4 00.0S	95 00.0	170	4	1010.6
15	0040	55 G-8	3 00.0S	95 00.0	150	10	1007.5
15	0728	56 G-7	2 00.0S	95 00.0	140	3	1008.6
15	1154	57 G-6	1 30 0S	95 00.0	--	calm	1007.0
15	1552	58 G-5	1 00.0S	95 00.0	--	calm	1009.0
15	2023	59 G-4	0 29.5S	95 00.2	205	5	1008.0
16	0012	60 G-3	0 00.0	95 00.0	270	12	1007.0
16	0701	61 G-2	1 00.ON	95 00.0	190	6	1009.0
16	1409	62 G-1	2 00.ON	95 00.0	230	14	1008.0
17	0710	63 I-1	2 00.ON	92 00.0	260	12	1007.0
17	1532	64 I-2	1 00.ON	92 00.0	270	16	1008.0
17	2155	65 I-3	0 00.0	92 00.0	airs	--	1006.2
18	0231	66 I-4	0 30.0S	92 00.0	250	8	1007.0
18	0700	67 I-5	1 00.0S	92 00.0	airs	--	1007.8
18	1416	68 I-6	0 30.0S	91 20.0	airs	--	1008.1
18	1659	69 I-6A	0 15.0S	91 25.0	330	6	1008.2
19	0448	70 I-8	2 00.0S	92 00.0	330	14	1007.9
20	0524	71 AB-1	0 47.0S	90 16.9	airs	2	1008.0
20	0919	72 AB-2	0 47.2S	90 16.4	--	calm	1006.8
20	1329	73 AB-3	0 47.0S	90 16.6	airs	--	1007.2
20	1717	74 AB-4	0 47.0S	90 16.9	190	5	1008.2
20	2137	75 AB-5	0 47.0S	90 16.9	210	10	1006.0
21	0108	76 AB-6	0 47.0S	90 16.9	airs	--	1015.9
21	0517	77 AB-7	0 47.0S	90 16.9	190	5	1007.9
21	0917	78 AB-8	0 47.0S	90 16.9	airs	--	1006.0