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**CTD MEASUREMENTS COLLECTED ON A CLIMATE AND GLOBAL
CHANGE CRUISE ALONG 170°W DURING FEBRUARY-APRIL 1990**

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CTD Measurements Collected on a Climate and Global Change Cruise Along 170°W During February–April 1990

K. McTaggart¹, D. Wilson², and L. Mangum¹

ABSTRACT. Summaries of Neil Brown Instrument System CTD measurements and hydrographic data acquired on a Climate and Global Change (CGC) cruise during the spring of 1990 aboard the NOAA ship *Malcolm Baldrige* are presented. The majority of these data were collected along 170°W from 5°N to 60°S. Additional data collected along a trackline from 60°S, 170°W to 46.3°S, 179.5°E, and along 32.5°S from 179°W to 170°W are also presented. Data acquisition and processing systems are described and calibration techniques are discussed. Station location, meteorological conditions, abbreviated CTD data listings, profiles, and potential temperature-salinity diagrams are shown for each cast. Section plots of oceanographic variables and hydrographic data listings are also given.

1. INTRODUCTION

In support of NOAA's Climate Program, PMEL scientists have been measuring the growing burden of greenhouse gases in the thermocline waters of the Pacific Ocean and the overlying atmosphere since 1980. During leg 1 of this cruise, hydrographic and chemical measurements were made in a detailed section along 170°W in the southwestern Pacific Ocean. Goals included the assessment of the change in inventory of CFC-11, CFC-12, and anthropogenic CO₂ since the first observations in the southwestern Pacific during 1984; observation of freons and other tracers in several crossings of the Deep Western Boundary Current; and observation of tracers in the bottom waters of the deep basin of the southwestern Pacific. During leg 2 of this cruise, measurements were made in the deep passages between the North and South Pacific Basins, across the Deep Western Boundary Current at 32.5°S, and across the equator. Figures 1 and 2 show the cruise track and station locations. In Figure 2, leg 1 stations are indicated by a circle and leg 2 stations are marked by a triangle. Table 1 provides a summary of cast information.

2. STANDARDS AND PRE-CRUISE CALIBRATIONS

The Neil Brown Mark IIIb CTD profiler is designed to make precise, high resolution measurements of conductivity, temperature, and pressure in the ocean environment. Electrical conductivity of sea water is obtained using a miniature four-electrode ceramic cell and highly precise and stable interface electronics; temperature is determined using a platinum resistance thermometer. Pressure is determined using a high performance strain gage pressure transducer. A thermistor within the pressure sensor housing corrects pressure values for the effects of temperature changes on the sensor itself.

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Data from the underwater unit is transmitted in real time to a shipboard data terminal through a 3-conductor electro-mechanical cable. The data is in TELETYPE (TTY) format and uses a frequency shift key (FSK) modulated signal superimposed on the DC power supplied to the underwater unit.

The EG&G conductivity sensor has a range of 1 to 65 mmho, an accuracy of ± 0.005 mmho, resolution of 0.001 mmho, and stability of 0.003 mmho/month. The Rosemount platinum thermometer has a range of -32 to 32°C , an accuracy of $\pm 0.005^{\circ}\text{C}$ (-3 to 32°C), resolution of 0.0005°C , and stability of $0.001^{\circ}\text{C}/\text{month}$. The Paine pressure sensor has a range of 0 to 6500 db, an accuracy of ± 6.5 db, resolution of 0.1 db, and stability of 0.1%/month.

Pre-cruise calibrations were done at Northwest Regional Calibration Center (NRCC) in Bellevue, Washington. The CTD was placed in a temperature controlled bath and compared against a calibration standard at nine different temperatures ranging from 0 to 30°C . A linear fit was calculated for the platinum thermometer. A calibrated piston gauge was used to determine separate third-order fits for the pressure sensor at four temperatures for increasing pressure (a range of seven pressure values from 0 to 6300 db) and decreasing pressure (a range of six values from 6300 to 0 db). Temperature and pressure calibrations were crudely checked at sea by comparing values with those from deep reversing thermometers, but the stability of the temperature and pressure sensors is such that the sensors are more accurate than the reversing thermometers. The conductivity sensor, on the other hand, is not as stable relative to water sample values and is more accurately calibrated using water sample salinities. Immediately prior to tripping the rosette, values of pressure, temperature, and conductivity were recorded from the CTD deck unit. These upcast CTD values were used for comparison with the water sample values.

3. DATA ACQUISITION

The CTD was deployed off the starboard platform of the *Malcolm Baldrige* using an Interocean winch throughout both legs of the cruise. A total of 64 CTD profiles were collected at 36 stations on leg 1 along 170°W from 15°S to 60°S , and along a trackline from 60°S , 170°W to 46.3°S , 179.5°E , including 21 deep casts to within 50 db of the bottom and 6 test/freon calibration casts. Cast 63 and 64 were freon calibration casts. CTD data from cast 63 is included in the data set although no bottle salts were drawn, but CTD data from cast 64 was not processed. A total of 46 CTD profiles were collected during leg 2 along 32.5°S from 178.8°W to 171.5°W , and along 170°W from 30°S to 5°N , including 13 deep casts to within 50 db of the bottom.

PMEL's Neil Brown CTD/ O_2 S/N 2044 (sampling rate 31 Hz) and a General Oceanics 24-bottle rosette were used for casts 0–10. Eight-hundred pounds of lead weight were attached to the frame to reduce the effects of surging. AOML's Neil Brown CTD S/N 2043 (sampling rate 31 Hz) and a General Oceanics 12-bottle rosette with 400 pounds of lead weight were used for

casts 11–64 of leg 1 and throughout leg 2. Casts to within 50 meters of the bottom were made using a Benthos acoustic pinger mounted low and opposite the CTD sensor arm on the frame. The position of the package relative to the bottom was monitored on the ship's Precision Depth Recorder. Ten-liter Niskin bottles were used to collect water samples for salinity, oxygen, nutrients, CFC, helium, total CO₂, alkalinity, and dissolved inorganic carbon. Reversing thermometers were mounted on several Niskin bottles on each cast and were used to verify rosette trip sequence and monitor the CTD temperature sensor for calibration shifts.

The package entered the water and was lowered at a rate of 30 m/min for the first 50 meters. To reduce the chance of contamination in the bottles, the package was not stopped just beneath the surface on its descent. Speed was increased at 50 meters to 45 m/min, and increased again at 200 meters to 60 m/min. Ship roll sometimes caused substantial variation about these mean lowering rates.

A Neil Brown Mark III deck unit received the FSK signal from the CTD and displayed pressure, temperature, and conductivity values. An analog signal was forwarded from the deck unit to an 'XYZ' recorder which monitored the data acquisition in real-time for signal spiking and problems with the electrical termination. An audio signal was forwarded to a video cassette recorder as a backup. The digitized data were forwarded to a microVAX and written directly to a disk file. Digitized data were also recorded on 9-track magnetic tape as an additional backup. The acquisition microVAX was equipped with Scientific Computer System (SCS) data acquisition software modified from PMEL/AOML source code. The disk files were transferred to a processing microVAX where PMEL's standard processing and plotting software were installed. Plots were generated after each cast to check for problems and monitor sensor drift. Backups of the raw and processed data were made on TK50 cartridge tapes and returned to PMEL.

3.1 Data Acquisition Problems

Early into leg 1, patches of deteriorated cable were identified from near-surface to greater than 5000 meters. Efforts were made to reinforce damaged areas in order to continue with CTD operations.

The oxygen sensor on CTD S/N 2044 started losing sensitivity before the cap was inadvertently left on during a deep cast which ruptured the sensor's membrane. Before the sensor could be replaced, the entire underwater package was lost during cast 10 when the cable parted with approximately 600 meters of cable out. An additional 4100 meters of cable was discarded and operations continued with the 12-bottle package. Multiple casts were made at selected stations to adequately sample the water column. CTD oxygen data were not processed.

Problems existed throughout the cruise with the rosettes and the rosette deck units of both packages. Several deck units were tried. A strip chart recorder connected to the rosette deck units to monitor the signal voltages was helpful in determining misfires. Bottle salinity, oxygen and

nutrient data were also used in an effort to determine the actual depth of each bottle fired. No bottles closed during cast 63 owing to a nicked connector.

3.2 Salinity Analyses

Bottle salinity analyses were performed by survey personnel in a climate-controlled van using two Guildline Autosol Model 8400A inductive salinometers and IAPSO Standard Seawater from Wormley batch P112. The commonly accepted precision of the Autosol is 0.001 psu, with an accuracy of 0.003 psu. The Autosols were standardized before each run and either at the end of each run or after no more than 48 samples. The drift during each run was monitored and individual samples were corrected for the drift during each run by linear interpolation. Bottle salinities were compared with computed CTD salinities to identify leaking bottles, as well as to monitor the conductivity sensor performance and drift.

Problems developed with both autosals midway through the cruise but were fixed by ship's personnel. Generally, there was good agreement between preliminary CTD data and bottle salinities, with a standard error near .005 psu. Calibrated CTD salinities replace problem bottle salinities in the hydrographic data listing and are indicated by an asterisk.

4. POST-CRUISE CALIBRATIONS

Pressure and temperature values for both CTDs were corrected using pre-cruise calibration coefficients. Reversing thermometer data showed no shifts in temperature and pressure calibrations within the resolution of these measurements. The new International Temperature Scale of 1990 (ITS-90) was not applied to the temperature values of this data set.

Final calibrations for conductivity were determined by reading uncalibrated CTD upcast and sample salinity data and calculating a least squares linear fit between CTD and water sample conductivity, weighting all data equally. When the difference between CTD and water sample conductivity exceeded 2.8 times the standard deviation of the calculated fit, the calibration pair was thrown out. Another fit was then calculated with these points omitted and the process repeated until no calibration pairs are discarded. This cruise was separated into three groups:

	BIAS	SLOPE	MAXIMUM RESIDUAL	STANDARD DEVIATION
Casts 0–10:	–2.0077199E-02	0.9993219	–0.019	0.0068 mmho/cm
Casts 11–63:	–0.7075790E-02	0.9987081	–0.010	0.0038 mmho/cm
Casts 65–110:	–1.4587455E-02	0.9986109	–0.010	0.0039 mmho/cm
Casts 0–10:	16 values were discarded from a total of 122 in 6 repetitions.			
Casts 11–63:	36 values were discarded from a total of 555 in 8 repetitions.			
Casts 65–110:	49 values were discarded from a total of 510 in 7 repetitions.			

Deep potential temperature-salinity diagrams for each cast were used to check the quality of the fits. Where leg 1 stations were revisited on leg 2 (32.5°S, 30°S, 25°S, 20°S, and 15°S), overplots were generated. At reoccupied stations on leg 2, deep potential temperature-salinity diagrams of CTD and bottle data showed good correlation, however there was a difference of approximately 0.002 psu at two of the five reoccupied stations, 25°S and 30°S.

Historical data from 1967 Scorpio, 1987 TEW, and 1974 GEOSECS cruises were examined and there also existed differences between these cruises in salinity of the deepest water masses of about 0.002 psu. Comparing the 1990 data set with these historical data, leg 1 salinity data was within this 0.002 psu difference. Therefore leg 2 data at stations 25°S and 30°S along 170°W (casts 77–84) were corrected. This was done by regridding leg 1 and leg 2 data at these two stations according to potential temperature. The range of potential temperature was around 0.6 to 0.8°C, with a grid size of 0.01°C. The mean difference in salinity between leg 1 and leg 2 casts was computed. For the station at 25°S, this value was 0.0018 psu; for the station at 30°S, it was 0.0021 psu. For each regridded scan of leg 2 data, a new conductivity was calculated using the value of salinity plus delta-salinity. The differences between the old and new conductivities were averaged (25°S = 0.0014 mmho/cm, 30°S = 0.0018 mmho/cm) and added to the conductivity calibration bias applied. Corrections were linearly interpolated over casts 77–84.

5. PROCESSING

Raw CTD data files were restored from TK50 cartridge tapes and processed on PMEL microVAX node NBVAX. In order to eliminate anomalous excursions in the raw temperature and conductivity data associated with reversals in the direction of movement of the CTD package, as well as when the package decelerates due to ship roll, program DPDNB was used to read the SCS LOGGER raw data files and compute a fall rate every 60 scans (about 2 seconds). Fall rate was then carried along with the original unprocessed data.

Program DLAGAV read the raw data files with fall rates and applied pre-cruise calibrations. Window outliers (acceptable ranges were –12 to 6500 db for pressure, –2 to 33°C for temperature, and 24 to 68 mmho/cm for conductivity) and first-differencing outliers (acceptable differences between scans were 1.0 db for pressure, 0.07°C for temperature, and 0.1 mmho/cm for conductivity) were removed. Gaps in the data were filled by linear interpolation. DLAGAV lagged conductivity, edited data exceeding the fall rate criteria (minimum fall rate acceptable was 0.5 db/60 scans or about 15 meters per minute and pressure interval to skip beyond the point of failure was 1.2 db as determined at sea), and computed 1-decibar data files.

First-differencing outliers were tentatively flagged if the differences between two scans were greater than the above mentioned preset values. If the difference between the next scan and the last good scan exceeded twice the allowable difference between scans, it too was flagged. If five scans in a row failed in this manner it was assumed that there was a gap in the data record and

all scans were retained. Or if the next, third, fourth or fifth scan had values close enough to the last good scan, then the flagged scans were rejected.

The filter applied to conductivity to account for the response time difference between the conductivity sensor and the slower platinum thermometer is described in Fofonoff *et al.* (1974). The conductivity is lagged as follows:

$$C(n) = (1-A) CM(n) + A \cdot C(n-1)$$

where C is the lagged conductivity, CM is the measured conductivity, n is the scan number, and A is a constant empirically determined (Horne and Toole, 1980) to best match temperature and conductivity (A = 0.87).

Program EPCTD read calibrated pressure, calibrated temperature, and raw conductivity data output from DLAGAV. EPCTD corrected raw conductivity for thermal and pressure effects, applied conductivity calibrations, and computed salinity using the 1978 Practical Salinity Scale (UNESCO, 1981). Single-point spikes were eliminated using maximum allowable gradients of 0.05°C for temperature and 0.025 psu for salinity above 200 db, and 0.01°C for temperature and 0.01 psu for salinity below 200 db. Additional salinity spikes were omitted from casts 12, 24, 51, 58, 70, and 95 as specified by the processor. Missing data were filled by linear interpolation for a value to exist every whole decibar. Final conductivity values were recomputed from salinity.

The conductivity cell dependence on temperature and pressure was corrected using the following (Fofonoff *et al.*, 1974):

$$C = CR \cdot (1 - \text{ALPHA} \cdot (T - 15.) + \text{BETA} \cdot (P/3.))$$

where CR is lagged conductivity, ALPHA is 6.5E-06, and BETA is 1.5E-08.

EPCTD then calculated potential temperature, sigma-t, and sigma-theta using the 1980 equation of state algorithms described by Fofonoff and Millard (1983). Dynamic height in dynamic meters was calculated by integrating from the sea surface. When the uppermost pressure was not equal to 0 db, surface values of temperature and salinity were filled with the values associated with the shallowest pressure for which values did exist (provided this pressure was less than 10 db). EPCTD output finalized CTD data in PMEL's Equatorial Pacific Information Collection (EPIC) format (Soreide and Hayes, 1988).

6. DATA PRESENTATION

The final calibrated data in EPIC format were used to produce the plots and listings which follow. The majority of the plots were produced using Plot Plus Scientific Graphics System (Denbo, 1992). Tables 2–6 define the abbreviations and units used in the CTD data summary

listings. Plots and summary listings of the CTD data follow for each cast. Hydrographic bottle data at discrete depths are listed in the final section.

7. PERSONNEL

		Leg 1	Leg 2
John Bullister, NOAA Pacific Marine Environmental Laboratory (PMEL)	CFC	x	
David Wisegarver, (Chief Scientist, legs 1 and 2), PMEL	CFC	x	x
Fred Menzia, PMEL	CFC	x	x
Jeff Benson, PMEL	CTD	x	
Dana Greeley, PMEL	CO ₂ /CTD	x	x
Paulette Murphy, PMEL	CO ₂	x	x
Marilyn Roberts, PMEL	CO ₂	x	x
Linda Mangum, PMEL	CTD	x	
Kristy McTaggart, PMEL	CTD	x	
Lloyd Moore, NOAA Atlantic Oceanographic and Meteorological Laboratory (AOML)	Nutrients	x	x
Rick Van Woy, Scripps Institute of Oceanography	CFC	x	
Gary Wick, University of Colorado	SST	x	x
Mike Behrenfeld, Western Washington University (WWU)	UV-b	x	
Andrew Hanneman, WWU	UV-b	x	
Michael Mathewson, Woods Hole Oceanographic Institute	Helium	x	
Bob Byrnes, University of Southern Florida (USF)	pH	x	
Tanya Clayton, USF	pH	x	
Doug Wilson, AOML	ADCP	x	
Rick Cole, USF	Moorings		x
Margie McCarty, PMEL	CTD		x
Lt. Cliff Wilson, PMEL	Moorings		x
Rolf Beck, Ocean Science Institute, University of Sydney	CFC	x	
Jeff Donovan, USF	Moorings		x

8. ACKNOWLEDGMENTS

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of Chief Survey Technician Robert Hopkins, provided valuable assistance in operations during this cruise.

We wish to thank Margie McCarty for the acquisition and preliminary calibration of leg 2 CTD data, as well as Jeff Benson and Dana Greeley for their help with the rosette, bottles, and CTD operations.

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FIGURES AND TABLES

CGC-90-MB CRUISE TRACK
February 22 – April 16, 1990
Pago Pago, Samoa – Wellington, NZ – Honolulu, HI

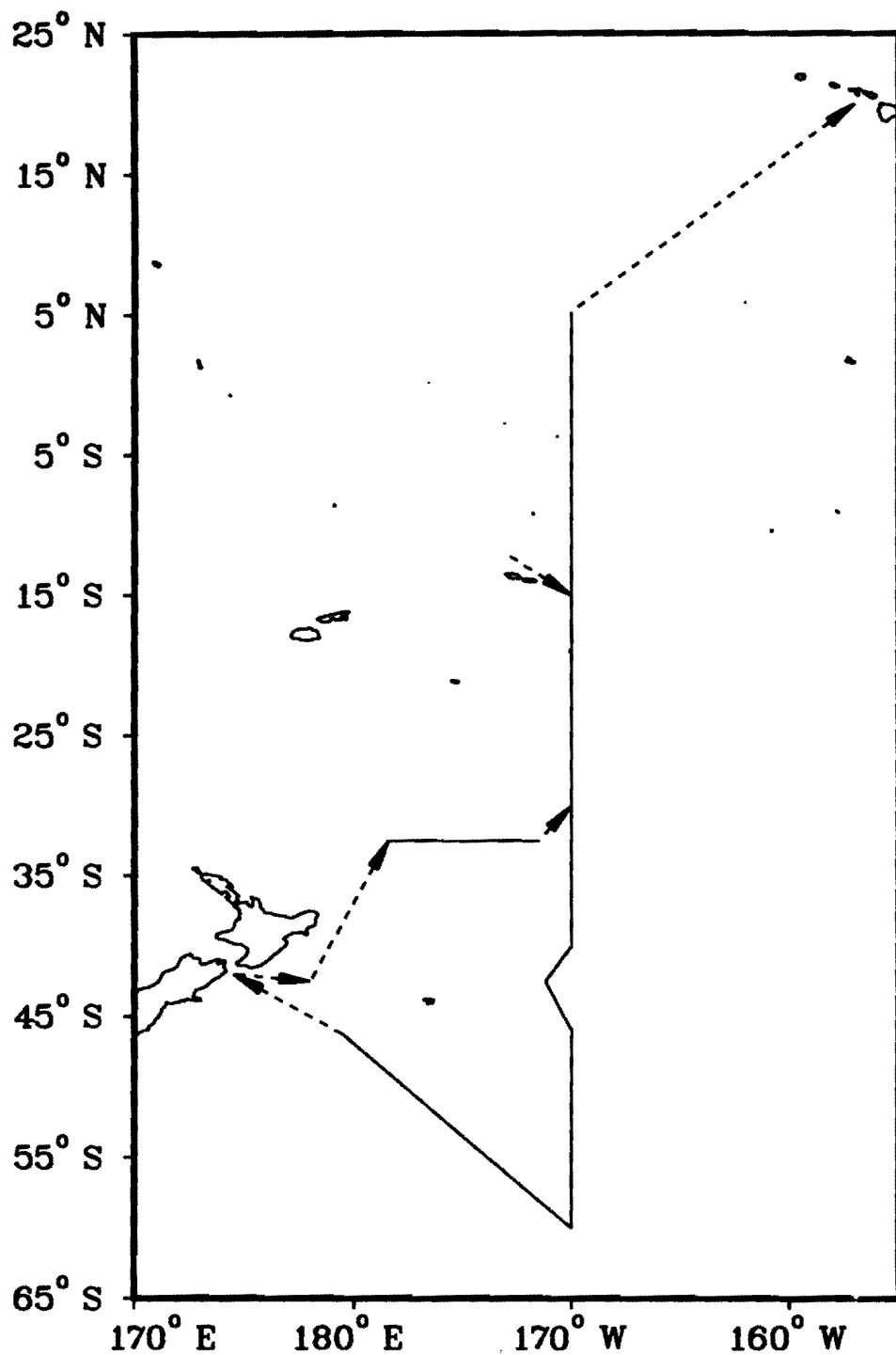


Figure 1. CGC-90-MB cruise track.

CGC-90-MB CTD STATIONS
February 22 – April 16, 1990
Pago Pago, Samoa – Wellington, NZ – Honolulu, HI

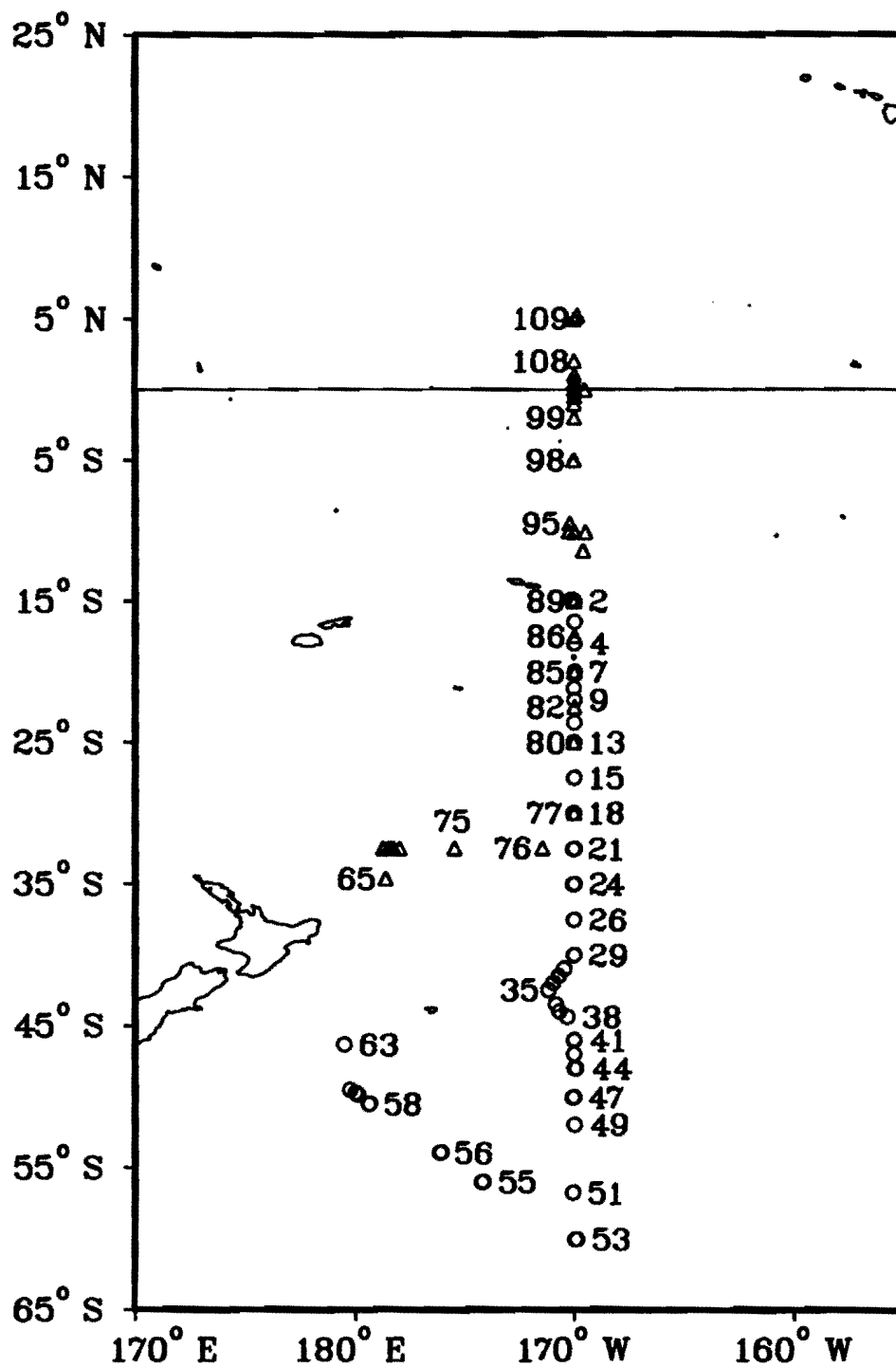


Figure 2. Location of stations occupied during CGC-90-MB. Leg 1 stations are indicated by a circle, leg 2 stations are shown with a triangle.

170°W POTENTIAL TEMPERATURE (C) February 24 – April 12, 1990

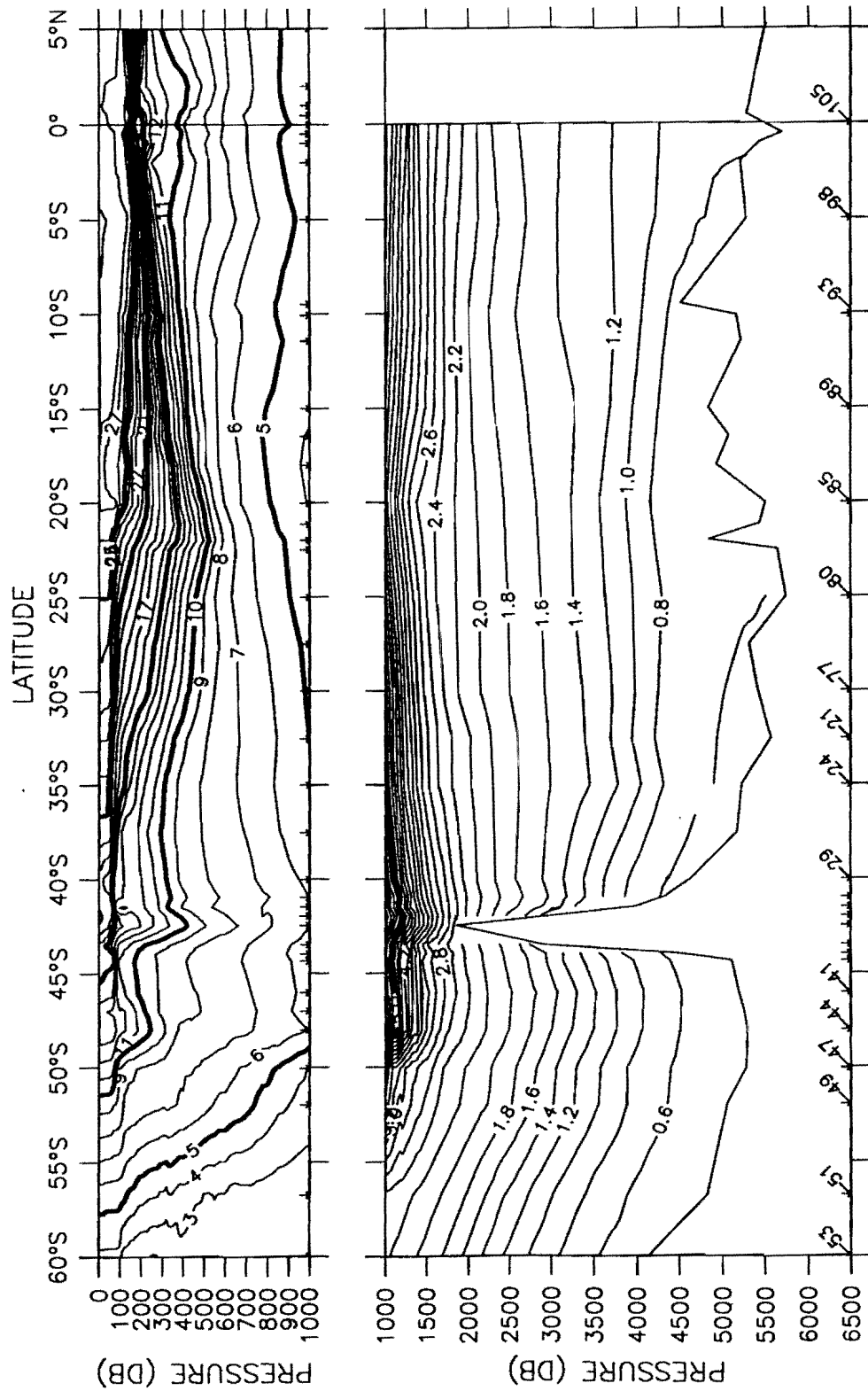


Figure 3. CGC-90-MB upper ocean and deep water potential temperature (°C) sections along 170°W.
C.I. = 1 lt 1000 db, .2 gt 1000 db

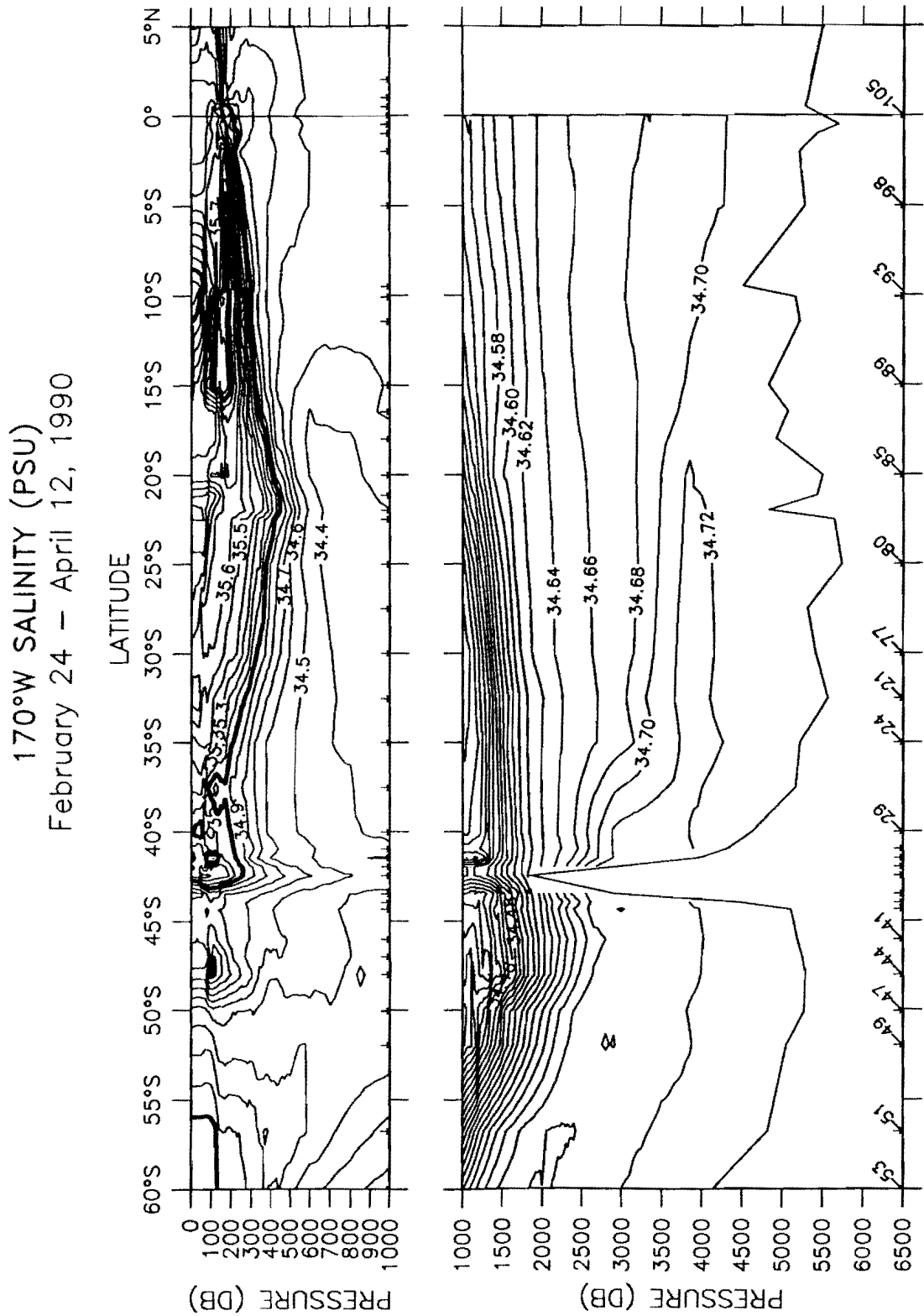


Figure 4. CGC-90-MB upper ocean and deep water salinity (psu) sections along 170°W.
C.I. = .1 lt 1000 db, .02 gt 1000 db

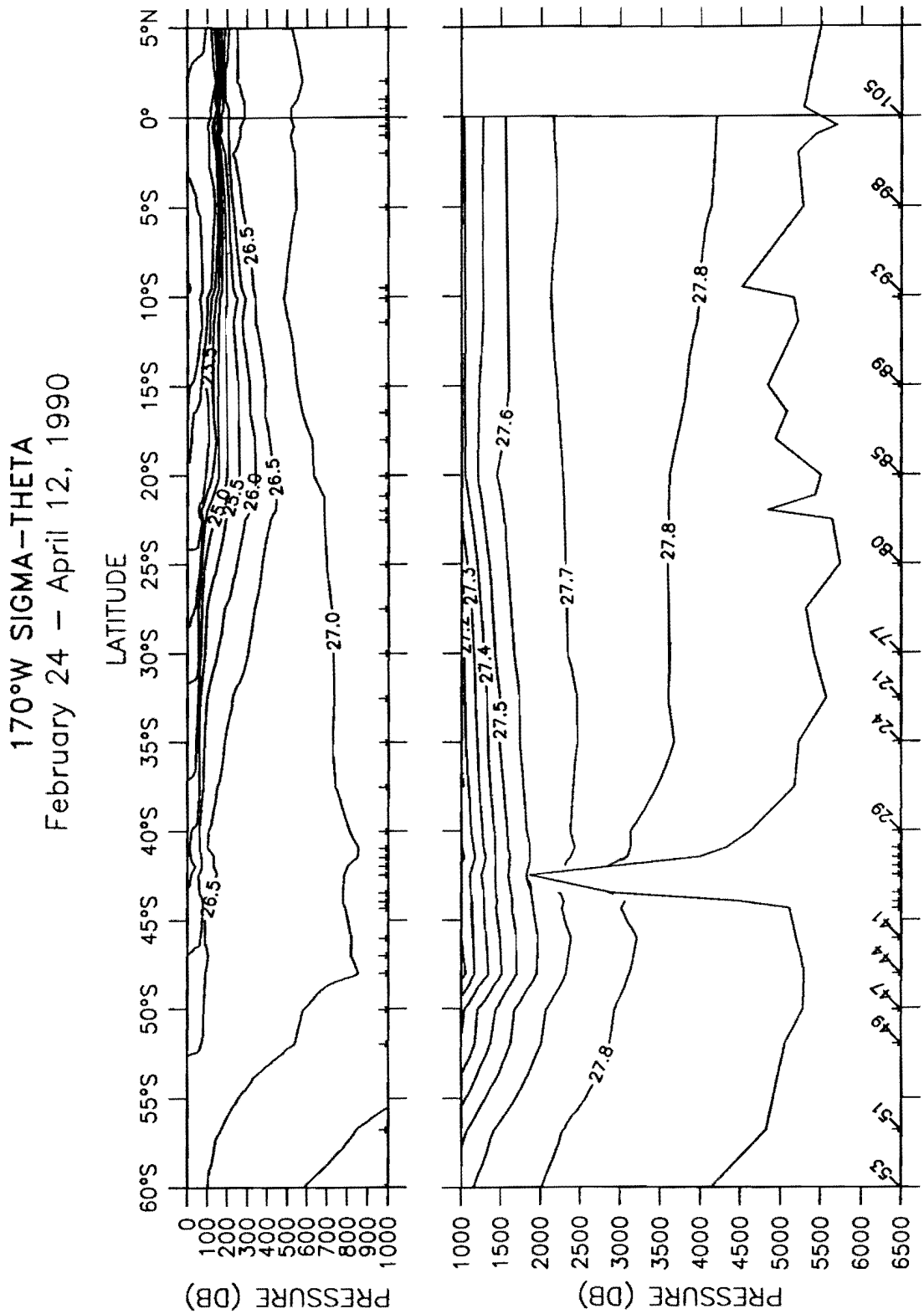


Figure 5. CGC-90-MB upper ocean and deep water potential density (kg/m^3) sections along 170°W.
C.I. = .5 lt 1000 db, .1 gt 1000 db

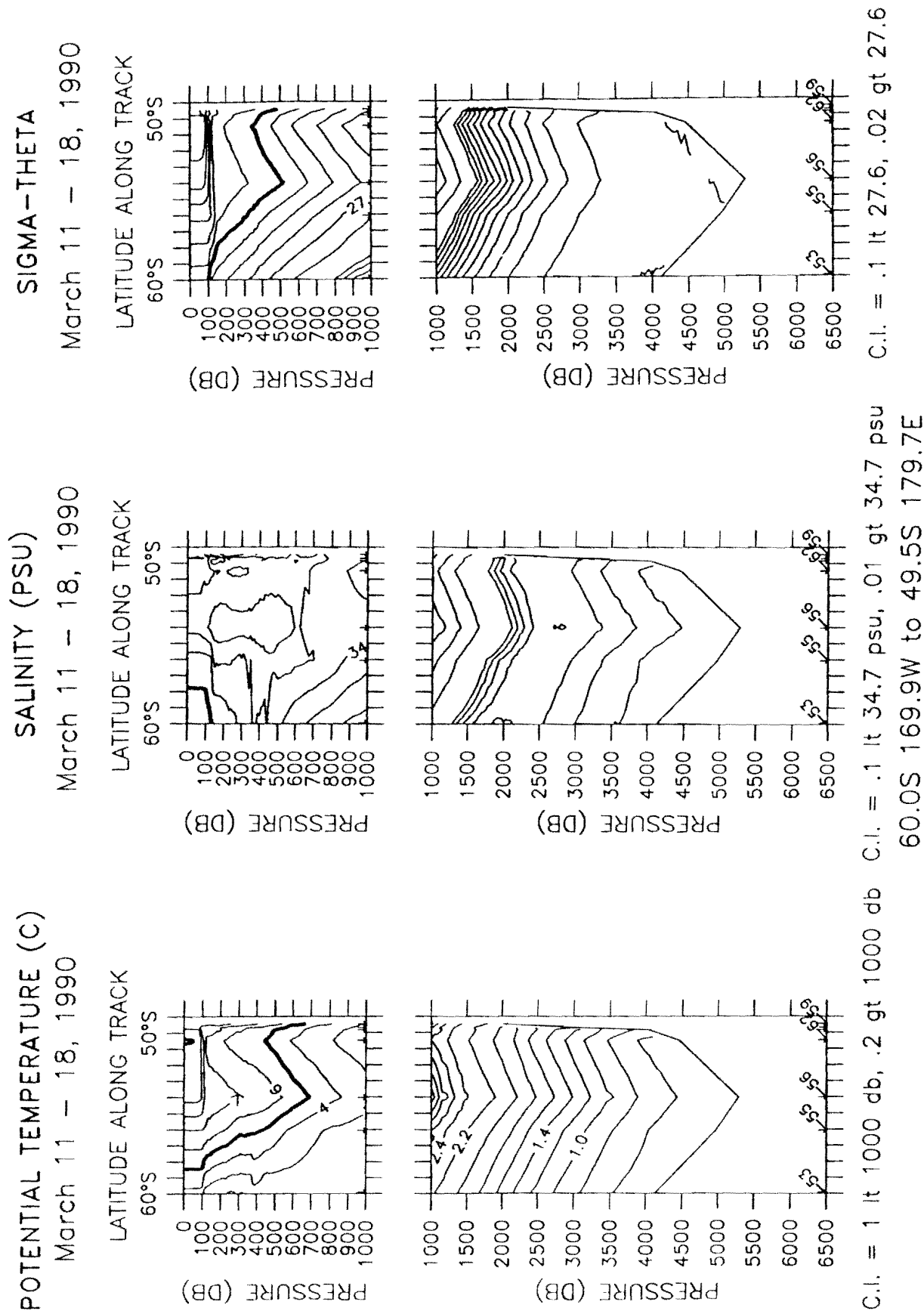
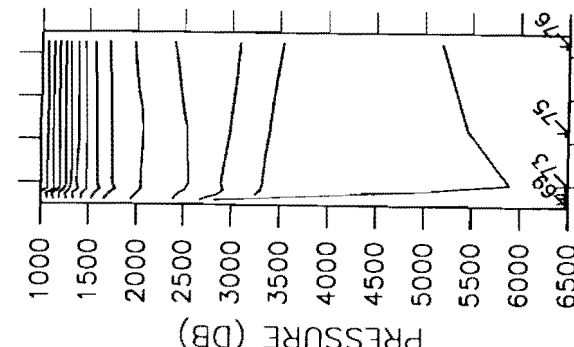
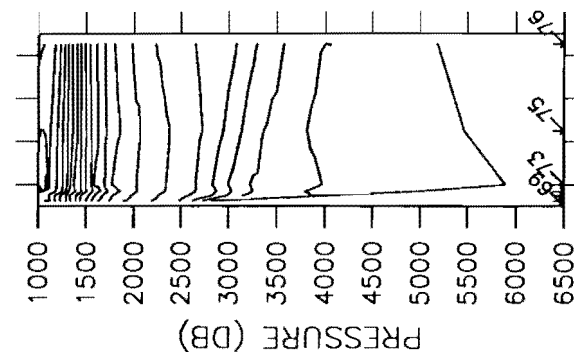
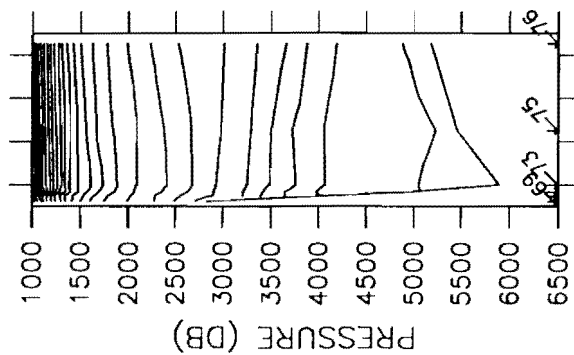
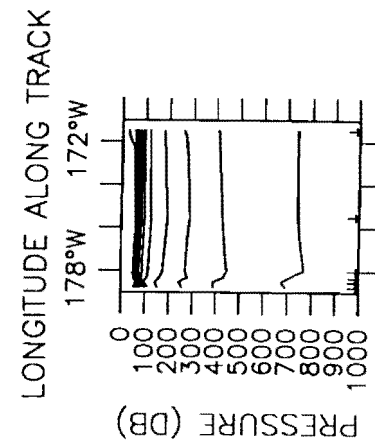
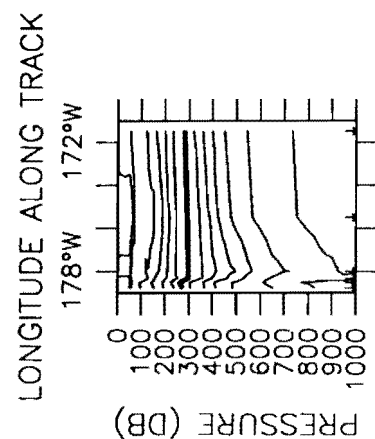
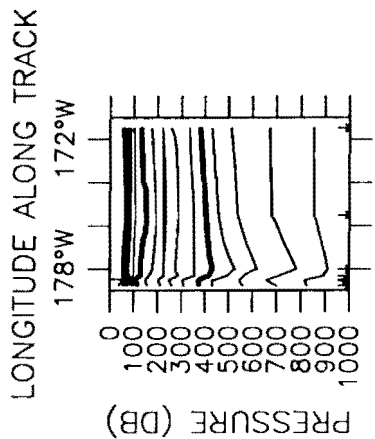


Figure 6. CGC-90-MB upper ocean and deep water potential temperature (°C), salinity (psu), and potential density (kg/m³) sections along track from 60°S, 169.9°W to 49.5°S, 179.7°E.

32.5°S POTENTIAL TEMPERATURE (C) 32.5°S SALINITY (PSU) March 28 – 31, 1990



C.I. = 1 lt 1000 db, .2 gt 1000 db

C.I. = .2 lt 1000 db, .05 gt 1000 db

C.I. = .1 lt 1000 db, .02 gt 1000 db

Figure 7. CGC-90-MB upper ocean and deep water potential temperature (°C), salinity (psu), and potential density (kg/m³) sections along 32.5°S.

TABLE 1. CTD Cast Summary

STN #	Cast #	Latitude	Longitude	Date	Time (GMT)	W/D (°T)	W/S (kts)	Depth (m)	SST (°C)	Cast (db)
0	0	14 53.2 S	170 8.5 W	23 FEB 90	1742	—	—	4541	28.1	3013
1	1	14 59.5 S	170 0.6 W	23 FEB 90	2146	51	4	4806	28.2	200
2	2	15 0.1 S	170 0.3 W	24 FEB 90	151	—	—	4817	28.8	4847
3	3	16 28.3 S	169 59.6 W	24 FEB 90	1238	—	—	5073	28.6	2000
4	4	18 0.2 S	170 0.4 W	24 FEB 90	2149	148	7	4929	27.6	2001
5	5	20 0.2 S	169 59.6 W	25 FEB 90	816	180	8	5320	27.0	202
5	6	20 2.1 S	169 59.9 W	25 FEB 90	1100	—	—	5361	27.0	2152
5	7	20 0.7 S	169 59.6 W	25 FEB 90	2049	116	10	5320	27.0	5427
6	8	21 9.1 S	170 1.7 W	26 FEB 90	657	120	10	5433	26.7	2501
7	9	21 59.5 S	169 59.8 W	26 FEB 90	1300	103	10	4839	26.0	2004
8	10	23 37.2 S	170 0.3 W	26 FEB 90	2310	98	18	5660	25.8	600
9	11	24 59.9 S	170 1.4 W	27 FEB 90	1157	90	20	5753	24.7	2501
9	12	25 0.4 S	170 0.5 W	27 FEB 90	1509	100	18	5702	24.6	600
9	13	25 1.3 S	170 0.9 W	27 FEB 90	1837	25	5	5712	24.6	5055
10	14	27 30.2 S	170 0.3 W	28 FEB 90	727	116	14	5223	24.1	352
10	15	27 30.8 S	170 0.9 W	28 FEB 90	952	114	10	5316	24.1	2500
11	16	30 0.3 S	170 0.8 W	28 FEB 90	2215	85	19	5417	23.7	304
11	17	30 1.1 S	170 1.5 W	1 MAR 90	16	67	18	5415	23.8	1512
11	18	30 0.3 S	170 2.6 W	1 MAR 90	441	60	16	5429	23.9	5178
12	19	32 31.0 S	169 59.9 W	1 MAR 90	1825	45	22	5588	22.1	351
12	20	32 34.2 S	169 59.9 W	1 MAR 90	2032	68	24	5577	22.0	1504
12	21	32 33.2 S	170 3.1 W	2 MAR 90	30	63	20	5568	22.0	5300
13	22	35 2.0 S	170 3.3 W	2 MAR 90	1514	15	18	5172	20.7	352
13	23	35 2.0 S	170 3.4 W	2 MAR 90	1719	15	18	5128	20.7	1503
13	24	35 1.4 S	170 0.6 W	2 MAR 90	2115	355	17	5225	20.7	5278
14	25	37 30.6 S	170 1.1 W	3 MAR 90	1037	55	12	5149	19.7	400
14	26	37 32.6 S	170 2.2 W	3 MAR 90	1252	40	18	5170	19.6	2504
15	27	40 0.0 S	170 0.2 W	4 MAR 90	52	38	14	4626	17.2	398
15	28	40 0.8 S	170 0.1 W	4 MAR 90	306	40	10	4626	17.6	2301
15	29	40 1.7 S	170 1.7 W	4 MAR 90	706	168	5	4626	17.6	4678
16	30	40 59.8 S	170 28.8 W	4 MAR 90	1535	192	10	4248	17.6	2005
16	31	40 58.1 S	170 29.0 W	4 MAR 90	1908	195	14	4323	17.5	4346
17	32	41 29.4 S	170 43.4 W	5 MAR 90	41	185	14	3984	18.0	3405
18	33	41 58.9 S	170 59.0 W	5 MAR 90	554	157	18	2974	18.2	2978
19	34	42 29.5 S	171 12.2 W	5 MAR 90	1016	161	10	1826	17.8	502
19	35	42 28.7 S	171 12.5 W	5 MAR 90	1225	155	6	1857	17.8	1845
20	36	43 30.1 S	170 51.2 W	5 MAR 90	1902	97	9	2904	15.6	2923
21	37	43 59.1 S	170 41.6 W	6 MAR 90	54	58	8	4473	16.0	4648
22	38	44 22.2 S	170 19.7 W	6 MAR 90	641	43	12	5108	15.8	5186
23	39	45 58.6 S	170 0.7 W	6 MAR 90	1612	25	8	5225	14.7	352
23	40	46 3.2 S	170 0.6 W	6 MAR 90	1819	25	20	5173	14.6	1752
23	41	46 2.7 S	170 0.1 W	6 MAR 90	2207	23	21	5190	14.6	5272
24	42	47 0.4 S	170 0.8 W	7 MAR 90	538	15	14	5252	13.4	3000
25	43	48 0.3 S	169 59.5 W	7 MAR 90	1133	8	14	5307	13.7	1000
25	44	48 1.3 S	169 54.9 W	7 MAR 90	1509	30	8	5294	13.7	5205
26	45	50 0.2 S	169 59.8 W	8 MAR 90	213	358	14	5340	12.5	404
26	46	50 0.3 S	170 1.5 W	8 MAR 90	434	315	10	5340	12.6	2402

TABLE 1. (Continued).

STN #	Cast #	Latitude	Longitude	Date	Time (GMT)	W/D (°T)	W/S (kts)	Depth (m)	SST (°C)	Cast (db)
26	47	50 4.0 S	170 4.2 W	8 MAR 90	844	321	25	5279	11.6	5305
27	48	51 59.6 S	169 59.2 W	8 MAR 90	2113	256	21	4981	9.5	1003
27	49	51 58.0 S	169 59.1 W	9 MAR 90	27	266	18	5054	9.4	5130
28	50	56 42.1 S	170 3.4 W	10 MAR 90	231	345	20	4883	5.5	1000
28	51	56 46.1 S	170 4.1 W	10 MAR 90	612	12	26	4822	5.5	4769
29	52	60 0.7 S	169 57.3 W	11 MAR 90	138	314	26	4139	3.8	1005
29	53	60 0.6 S	169 53.0 W	11 MAR 90	502	265	16	4139	3.8	4177
30	54	55 59.5 S	174 14.2 W	12 MAR 90	1825	155	10	5011	7.0	1001
30	55	55 59.8 S	174 10.1 W	12 MAR 90	2212	171	12	4970	7.0	5030
31	56	53 56.9 S	176 9.5 W	13 MAR 90	1304	270	24	5289	9.3	5025
31	57	53 54.2 S	176 3.3 W	13 MAR 90	1643	280	22	5310	9.2	1250
32	58	50 30.3 S	179 23.7 W	15 MAR 90	620	270	18	4448	10.2	1753
33	59	49 29.9 S	179 44.7 E	15 MAR 90	1420	337	18	2012	8.8	1987
34	60	49 43.5 S	179 59.9 W	16 MAR 90	724	267	16	3111	8.5	3088
35	61	49 50.9 S	179 52.7 W	16 MAR 90	1146	284	21	4030	9.8	4056
36	62	50 29.0 S	179 21.4 W	18 MAR 90	704	285	22	4458	10.0	4531
37	63	46 20.0 S	179 28.9 E	20 MAR 90	5	145	14	3317	15.0	3004
38	65	34 38.9 S	178 38.2 W	28 MAR 90	948	144	23	6556	21.2	3000
39	66	32 29.8 S	178 18.8 W	28 MAR 90	2141	124	20	4994	21.9	5061
40	67	32 30.6 S	178 31.4 W	29 MAR 90	237	94	7	-	22.1	4219
41	68	32 29.8 S	178 44.6 W	29 MAR 90	704	93	10	3080	22.1	999
41	69	32 29.3 S	178 46.0 W	29 MAR 90	1000	100	11	2828	22.1	2973
42	70	32 29.0 S	178 30.1 W	29 MAR 90	1257	123	8	4211	22.0	1498
43	71	32 29.6 S	178 17.8 W	29 MAR 90	1554	157	8	5004	22.2	1500
44	72	32 29.5 S	178 0.2 W	29 MAR 90	2008	114	8	5722	21.9	1499
44	73	32 30.6 S	177 59.9 W	30 MAR 90	29	155	6	5898	22.0	5975
45	74	32 29.0 S	175 29.0 W	30 MAR 90	1229	125	4	5574	22.2	1498
45	75	32 29.4 S	175 30.1 W	30 MAR 90	1642	-	-	5462	22.3	5526
46	76	32 28.8 S	171 28.7 W	31 MAR 90	1104	218	3	5182	21.6	5229
47	77	30 0.0 S	170 0.4 W	1 APR 90	233	134	12	5414	24.1	5502
48	78	24 58.6 S	170 1.3 W	2 APR 90	206	114	24	5689	25.4	399
48	79	24 58.9 S	170 1.0 W	2 APR 90	506	100	20	5784	25.4	2253
48	80	25 1.2 S	170 1.8 W	2 APR 90	857	122	21	5740	25.3	5804
49	81	22 29.8 S	170 0.4 W	2 APR 90	2222	135	25	5468	25.4	500
49	82	22 30.4 S	170 0.5 W	3 APR 90	42	126	20	5645	25.4	2999
50	83	20 0.4 S	170 0.4 W	3 APR 90	1333	125	22	5320	27.0	400
50	84	20 0.9 S	170 0.0 W	3 APR 90	1548	120	18	5351	27.2	2249
50	85	20 1.5 S	170 0.8 W	3 APR 90	1926	132	24	5502	27.2	5472
51	86	17 29.5 S	170 0.3 W	4 APR 90	841	117	25	4848	27.6	600
52	87	15 0.2 S	170 0.6 W	4 APR 90	2202	168	8	4686	28.5	399
52	88	14 58.7 S	170 2.9 W	5 APR 90	12	85	4	4771	28.5	2016
52	89	15 0.3 S	170 0.4 W	5 APR 90	438	105	14	4833	28.5	4873
53	90	11 26.4 S	169 36.5 W	5 APR 90	2237	329	10	5216	28.8	1250
54	91	10 6.1 S	169 30.2 W	6 APR 90	700	38	14	5249	28.9	5302
55	92	10 5.4 S	169 59.5 W	6 APR 90	1137	53	6	5161	28.8	1500
55	93	10 5.5 S	170 0.0 W	6 APR 90	1546	60	8	5163	28.7	5230
56	94	10 5.3 S	170 14.9 W	6 APR 90	2053	56	14	5929	28.7	5111

TABLE 1. (Continued).

STN #	Cast #	Latitude	Longitude	Date	Time (GMT)	W/D (°T)	W/S (kts)	Depth (m)	SST (°C)	Cast (db)
57	95	9 29.5 S	170 12.8 W	7 APR 90	238	75	16	4515	29.0	1499
58	96	5 0.1 S	170 0.8 W	7 APR 90	2307	64	20	5413	29.1	400
58	97	5 1.5 S	170 3.7 W	8 APR 90	139	93	19	5436	29.2	1998
58	98	5 0.8 S	170 1.2 W	8 APR 90	526	80	18	5280	29.2	5481
59	99	2 0.3 S	170 0.4 W	8 APR 90	2116	66	21	5214	28.4	998
60	100	0 59.7 S	170 1.2 W	9 APR 90	244	80	18	5435	28.3	1001
61	101	0 29.9 S	170 0.4 W	9 APR 90	605	90	16	5698	28.3	999
62	102	0 0.0 S	170 1.2 W	9 APR 90	931	78	15	5342	28.1	1999
62	103	0 0.7 N	170 0.3 W	9 APR 90	1149	69	10	5324	27.8	399
63	104	0 2.0 S	169 32.3 W	11 APR 90	916	72	13	5181	28.0	501
64	105	0 0.0 S	170 0.2 W	11 APR 90	1400	105	12	—	27.9	5582
65	106	0 30.0 N	170 0.3 W	11 APR 90	1837	104	14	5285	27.8	1002
66	107	1 0.1 N	170 0.3 W	11 APR 90	2145	117	16	5316	27.8	999
67	108	2 0.3 N	170 0.9 W	12 APR 90	308	96	14	5357	27.8	1001
68	109	5 0.1 N	170 0.6 W	12 APR 90	1655	90	22	7161	28.0	1005
69	110	5 13.7 N	169 52.4 W	12 APR 90	1923	60	20	5496	28.2	1249

TABLE 2. Weather condition code used to describe each set of CTD measurements.

Code	Weather Condition
0	Clear (no cloud)
1	Partly cloudy
2	Continuous layer(s) of cloud(s)
3	Sandstorm, dust storm, or blowing snow
4	Fog, thick dust or haze
5	Drizzle
6	Rain
7	Snow, or rain and snow mixed
8	Shower(s)
9	Thunderstorms

TABLE 3. Sea state code used to describe each set of CTD measurements.

Code	Height (meters)	Description
0	0	Calm-glassy
1	0–0.1	Calm-rippled
2	0.1–0.5	Smooth-wavelet
3	0.5–1.25	Slight
4	1.25–2.5	Moderate
5	2.5–4	Rough
6	4–6	Very rough
7	6–9	High
8	9–14	Very high
9	>14	Phenomenal

TABLE 4. Visibility code used to describe each set of CTD measurements.

Code	Visibility
0	<50 meters
1	50–200 meters
2	200–500 meters
3	500–1,000 meters
4	1–2 km
5	2–4 km
6	4–10 km
7	10–20 km
8	20–50 km
9	50 km or more

TABLE 5. Cloud type.

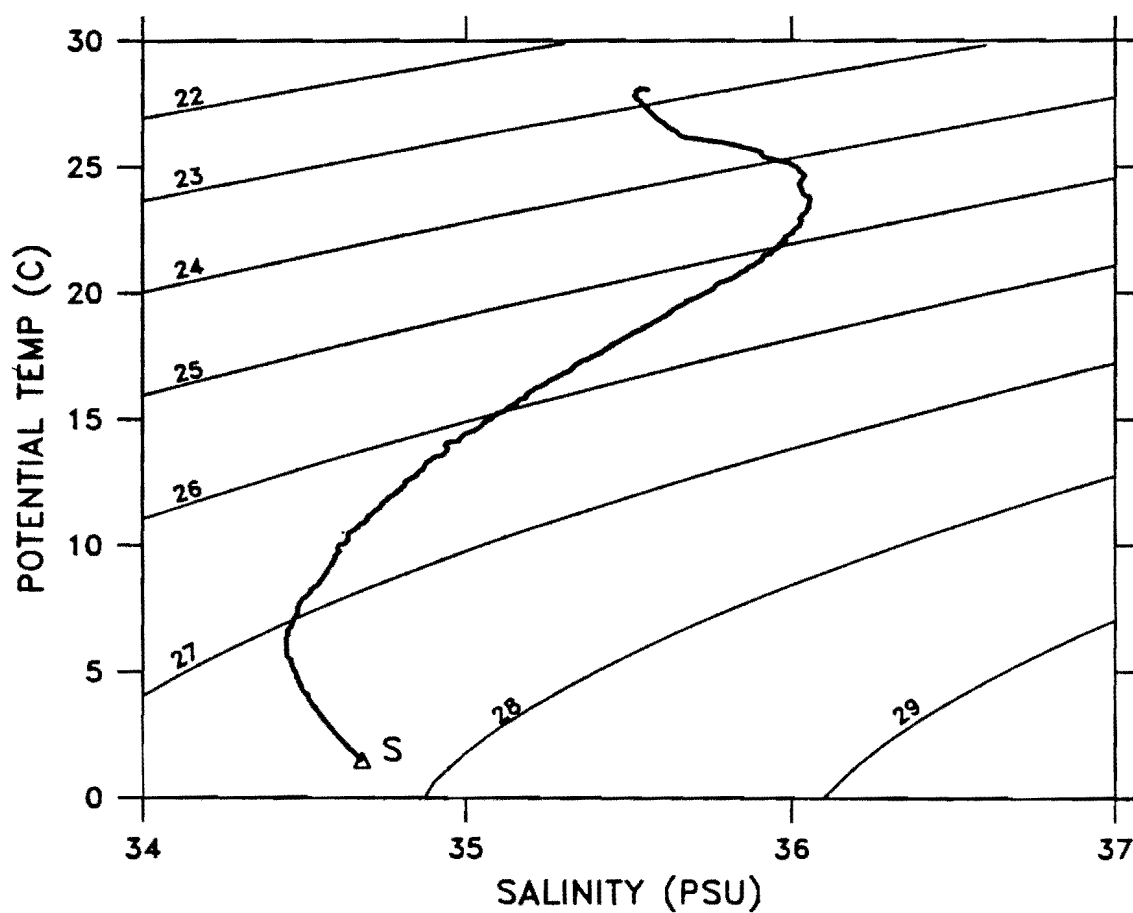
Code	Cloud Types
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
X	Clouds not visible

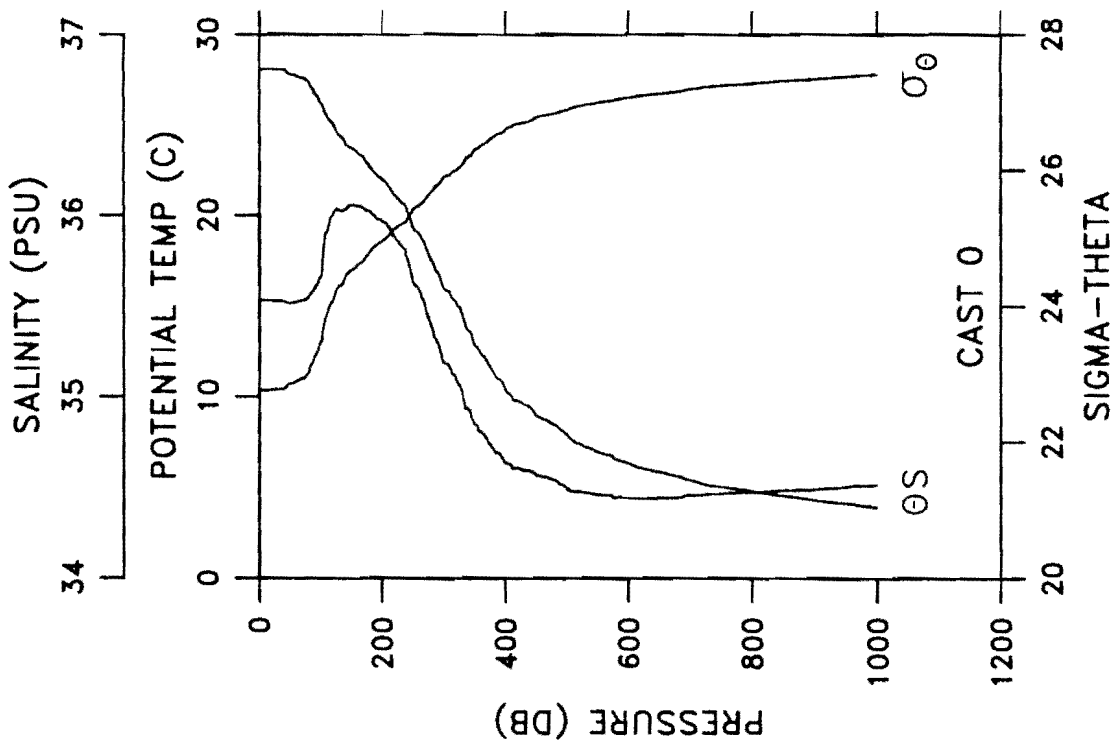
TABLE 6. Cloud Amount.

Code	Cloud Amount
0	0
1	1/10 or less but not zero
2	2/10-3/10
3	4/10
4	5/10
5	6/10
6	7/10-8/10
7	9/10
8	10/10
9	Sky obscured or not determined

NBIS CTD DATA SUMMARY

CAST CG1-90-MB -000 DATE 23 FEB 90 TIME 1742 GMT
LAT 14 53.2S LONG 170 08.5W

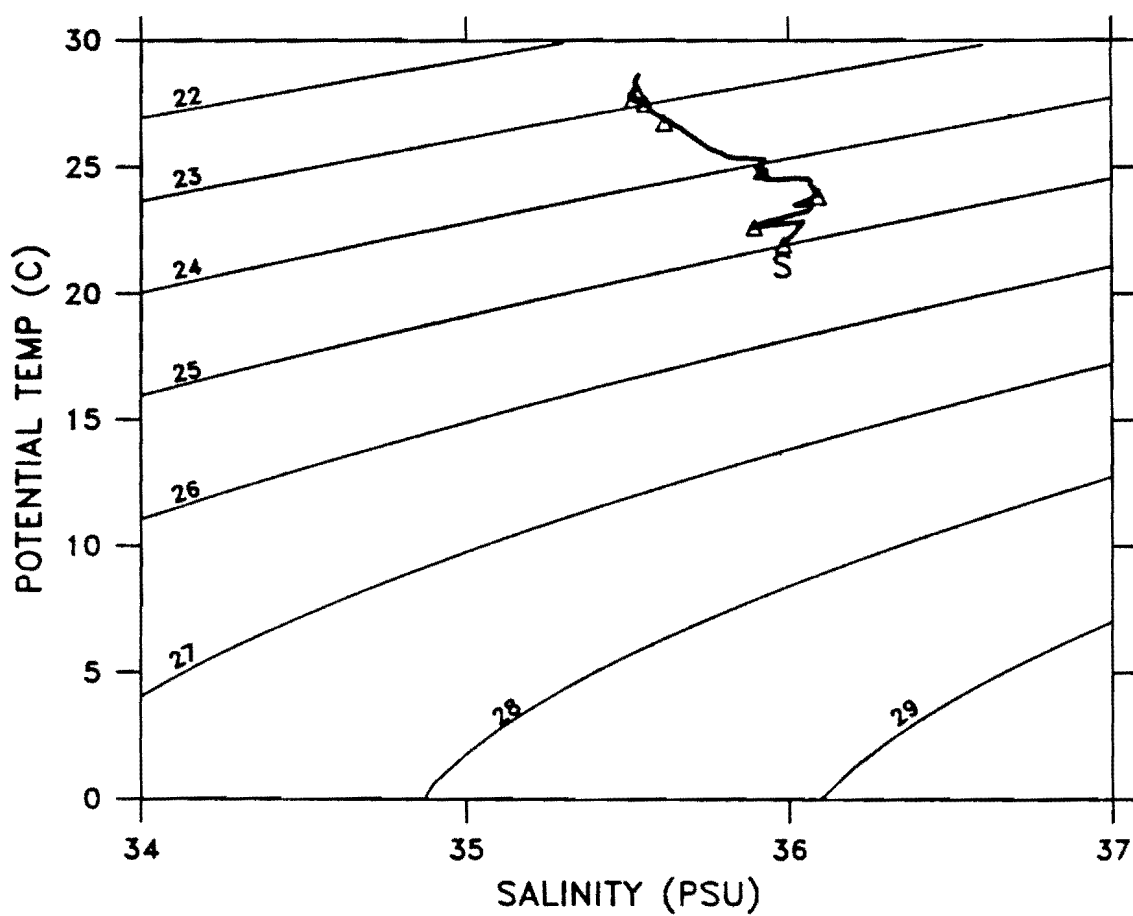




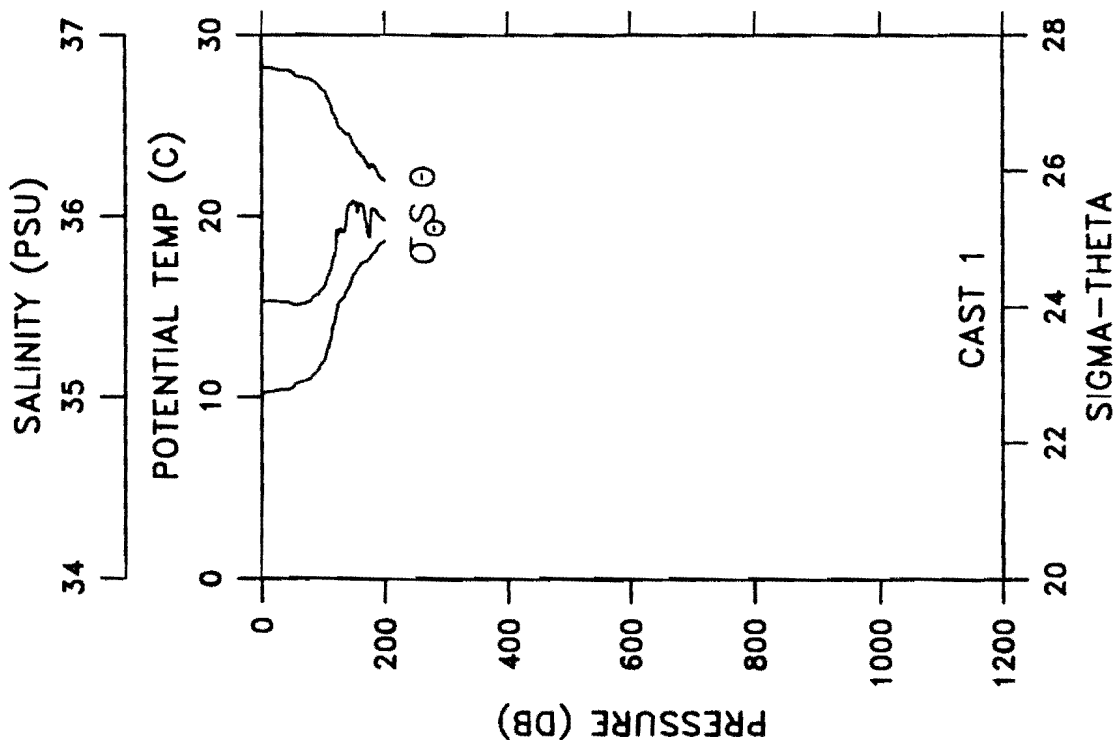
CAST CG1-90-MB -000 DATE 23 FEB 90 TIME 1742 GMT
 LAT 14 53.2S LONG 170 08.5W WEATHER 1 SEA STATE 1
 BAROMETER 08 WIND DIR 000 T SPD 00 KT VISIBILITY 7
 CLOUD 3 AMOUNT 1 DRY 26.5 WET 25.5 DEPTH 4541 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	28.057	35.556	22.796	0.000
10	28.113	35.531	22.759	0.051
20	28.103	35.531	22.762	0.102
30	28.074	35.529	22.770	0.153
40	28.053	35.527	22.776	0.204
50	27.786	35.515	22.854	0.254
60	27.695	35.520	22.887	0.304
70	27.595	35.532	22.929	0.354
80	27.365	35.550	23.017	0.403
90	26.739	35.605	23.259	0.451
100	26.216	35.661	23.466	0.497
110	25.509	35.907	23.872	0.539
120	25.086	36.000	24.072	0.579
130	24.417	36.027	24.296	0.616
140	24.048	36.031	24.409	0.653
150	23.724	36.053	24.523	0.688
160	23.440	36.052	24.605	0.722
170	23.206	36.041	24.665	0.756
180	22.714	36.022	24.793	0.789
190	22.285	35.986	24.888	0.820
200	22.004	35.969	24.955	0.852
250	19.343	35.633	25.418	0.996
300	15.981	35.188	25.897	1.118
350	12.854	34.848	26.305	1.220
400	10.381	34.635	26.602	1.303
450	8.975	34.567	26.784	1.375
500	7.956	34.500	26.888	1.440
550	6.968	34.462	26.999	1.499
600	6.338	34.444	27.070	1.554
650	5.855	34.443	27.131	1.606
700	5.407	34.457	27.197	1.655
750	5.037	34.466	27.248	1.702
800	4.793	34.473	27.281	1.746
900	4.339	34.489	27.344	1.830
1000	3.895	34.514	27.410	1.909
1500	2.610	34.591	27.593	2.239
2000	2.001	34.634	27.679	2.511
2500	1.708	34.659	27.721	2.757
3000	1.487	34.672	27.748	2.992
3006	1.485	34.673	27.748	2.995

CAST CG1-90-MB -001 DATE 23 FEB 90 TIME 2146 GMT
LAT 14 59.5S LONG 170 00.6W

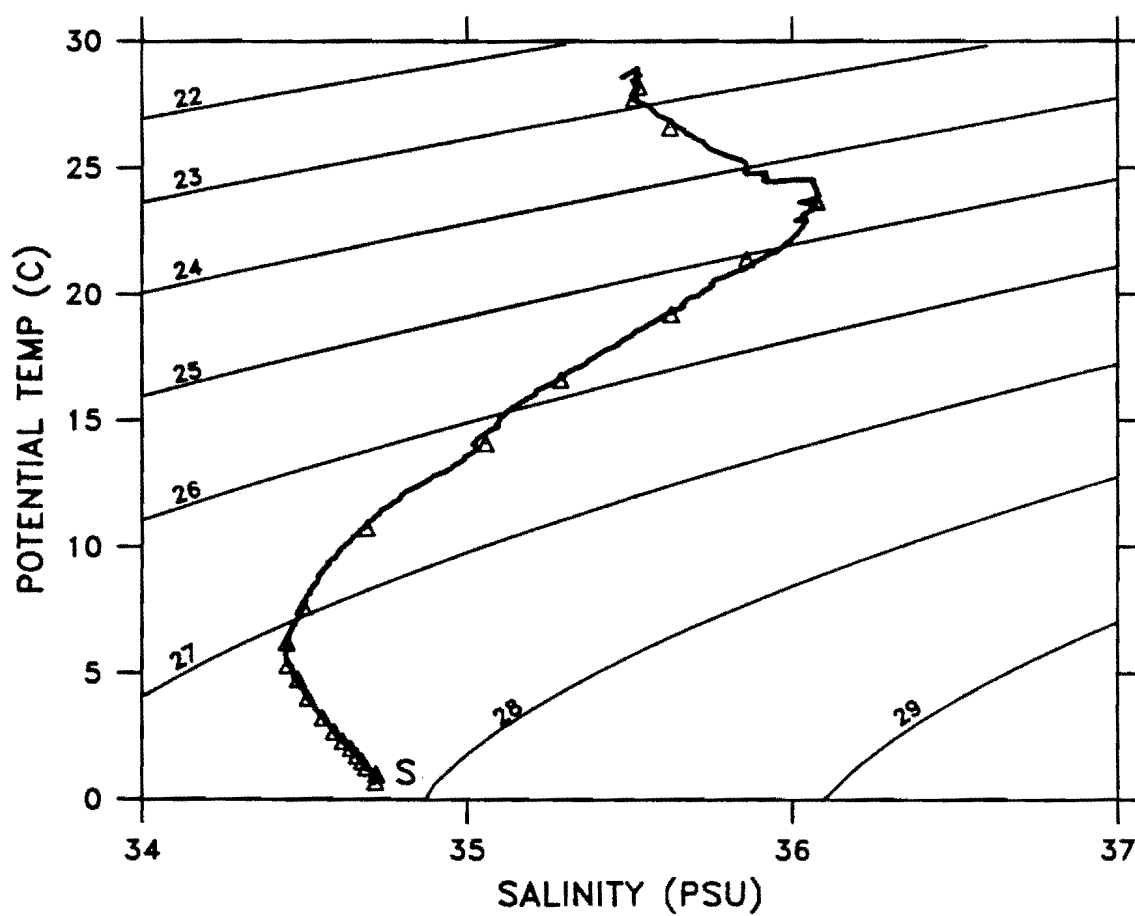


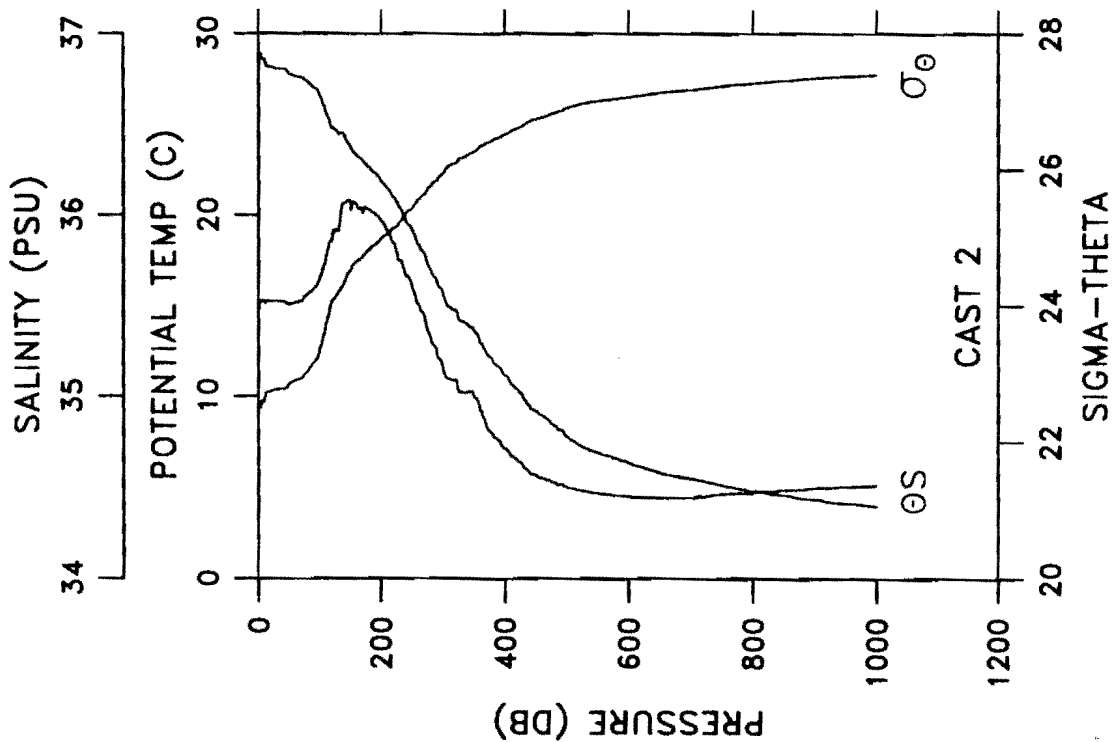
CST CG1-90-MB -001 DATE 23 FEB 90 TIME 2146 GMT
 LAT 14 59.55 LONG 170 00.6W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 051 T SPD 04 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 29.7 WET 27.4 DEPTH 4806 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.632	35.532	22.589	0.000
10	28.169	35.531	22.741	0.051
20	28.137	35.530	22.751	0.102
30	28.071	35.528	22.771	0.153
40	28.056	35.526	22.774	0.204
50	27.922	35.514	22.809	0.255
60	27.895	35.513	22.882	0.305
70	27.825	35.522	22.911	0.355
80	27.547	35.538	22.949	0.405
90	27.294	35.569	23.054	0.454
100	26.922	35.609	23.203	0.501
110	26.236	35.698	23.488	0.547
120	25.364	35.832	23.861	0.590
130	24.759	35.917	24.109	0.629
140	24.542	36.052	24.277	0.667
150	23.895	36.082	24.494	0.703
160	23.413	36.069	24.626	0.737
170	22.957	35.962	24.678	0.771
180	22.833	36.041	24.773	0.804
190	22.228	36.002	24.917	0.835
200	21.966	35.979	24.973	0.866
200	21.966	35.979	24.973	0.866

CAST CG1-90-MB -002 DATE 24 FEB 90 TIME 0151 GMT
LAT 15 00.1S LONG 170 00.3W

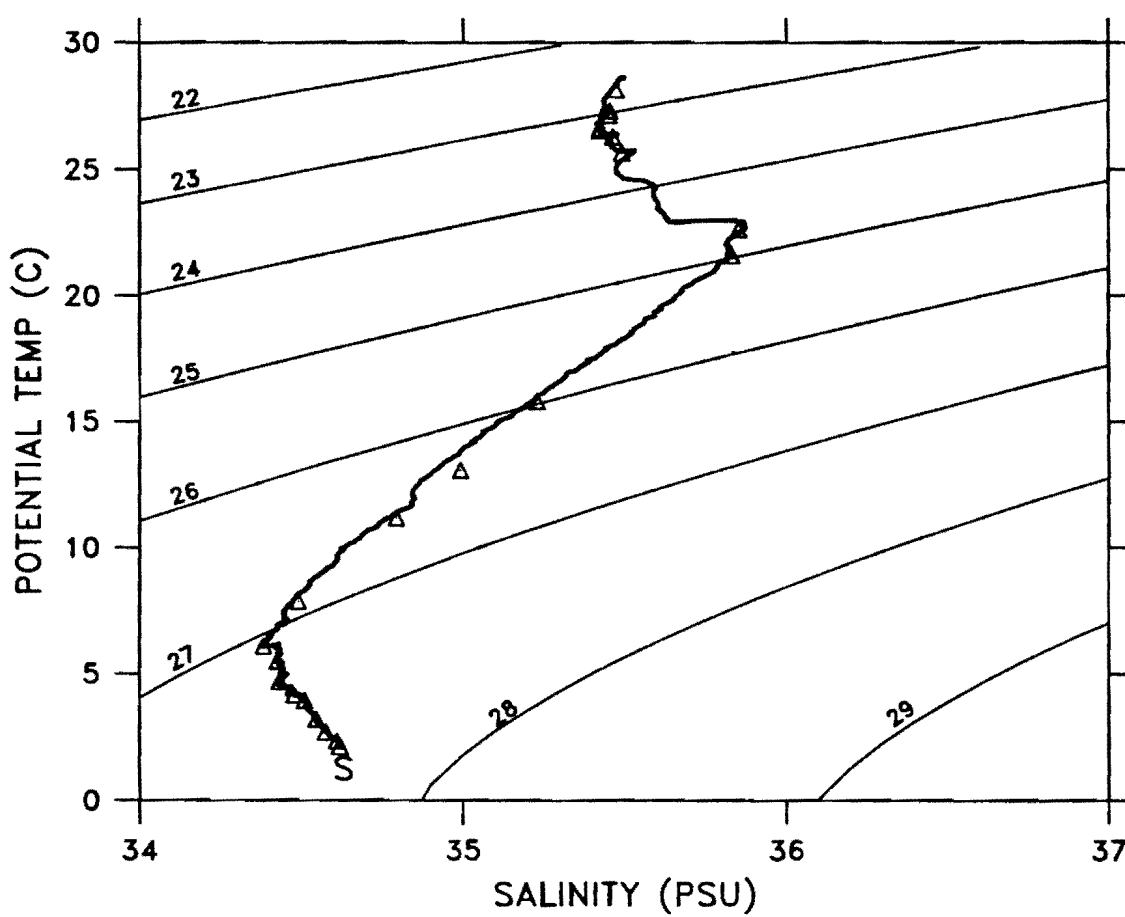




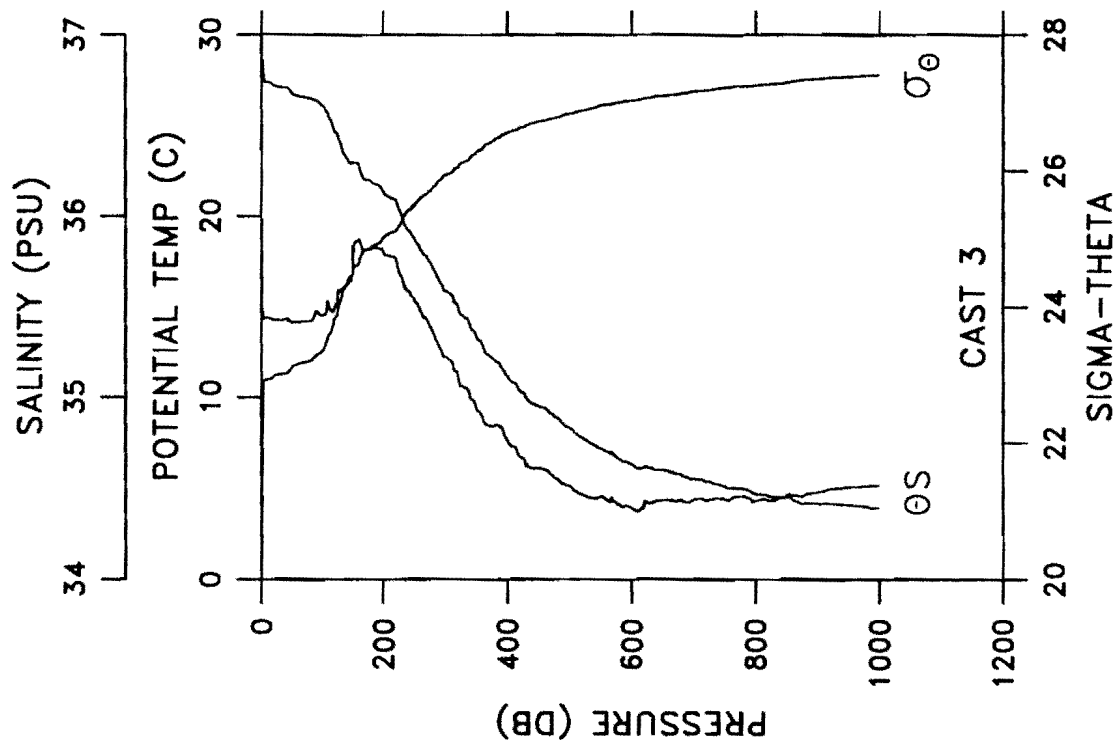
CAST CG1-90-MB -002 DATE 24 FEB 90 TIME 0151 GMT
 LAT 15 00.1S LONG 170 00.3W WEATHER 1 SEA STATE 0
 BAROMETER 07 WIND DIR 000 T SPD 00 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 30.0 WET 28.0 DEPTH 4817 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.550	35.475	22.573	0.000
10	28.485	35.524	22.632	0.053
20	28.171	35.525	22.735	0.104
30	28.072	35.524	22.767	0.155
40	28.054	35.524	22.773	0.206
50	27.777	35.506	22.850	0.257
60	27.648	35.518	22.901	0.307
70	27.590	35.525	22.925	0.357
80	27.384	35.563	23.020	0.406
90	27.040	35.592	23.153	0.454
100	26.578	35.653	23.347	0.501
110	25.653	35.764	23.720	0.545
120	24.774	35.858	24.061	0.586
130	24.499	35.912	24.184	0.624
140	24.391	36.064	24.332	0.661
150	23.791	36.068	24.514	0.697
160	23.340	36.062	24.642	0.731
170	22.996	36.023	24.712	0.764
180	22.656	36.032	24.818	0.796
190	22.340	36.009	24.890	0.828
200	21.893	35.970	24.987	0.859
250	19.286	35.620	25.423	1.002
300	15.759	35.169	25.934	1.121
350	13.654	35.008	26.266	1.220
400	11.159	34.713	26.524	1.305
450	9.210	34.567	26.748	1.380
500	7.820	34.503	26.910	1.445
550	6.932	34.470	27.011	1.504
600	6.378	34.451	27.070	1.559
650	5.806	34.444	27.138	1.611
700	5.498	34.446	27.177	1.660
750	5.126	34.464	27.236	1.707
800	4.804	34.468	27.276	1.752
900	4.340	34.497	27.351	1.836
1000	3.971	34.512	27.401	1.915
1500	2.650	34.590	27.589	2.249
2000	2.006	34.636	27.680	2.522
2500	1.707	34.660	27.722	2.768
3000	1.477	34.675	27.751	3.002
3500	1.260	34.687	27.776	3.226
4000	1.012	34.711	27.813	3.439
4500	0.685	34.713	27.835	3.632
4842	0.642	34.710	27.836	3.759

CAST CG1-90-MB -003 DATE 24 FEB 90 TIME 1238 GMT
LAT 16 28.3S LONG 169 59.6W

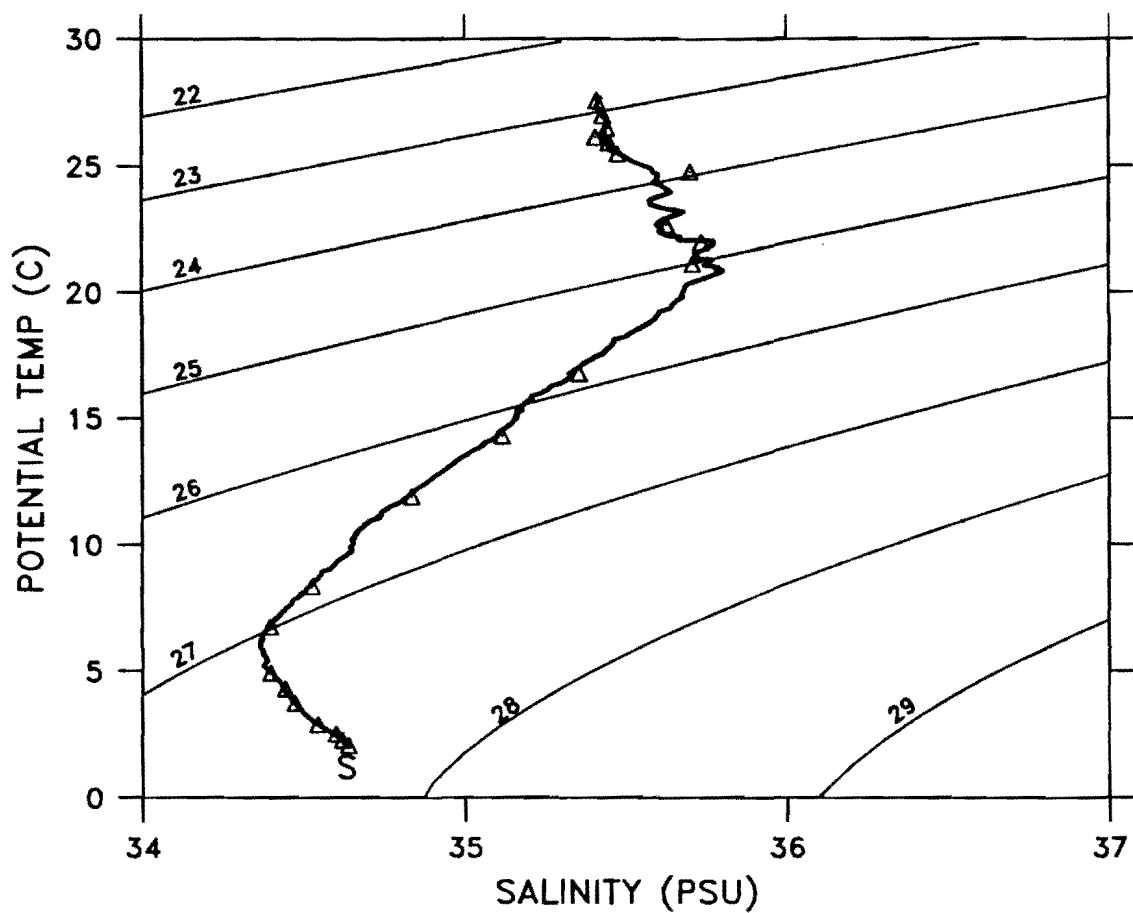


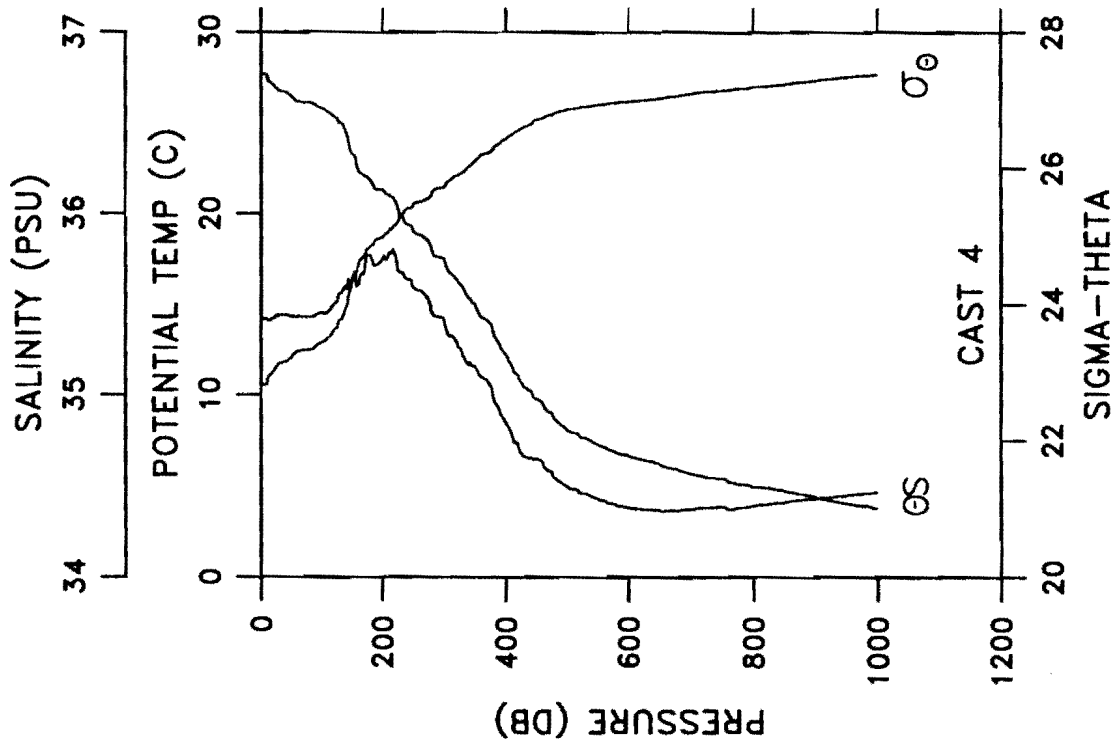
CST CG1-90-MB -003 DATE 24 FEB 90 TIME 1238 GMT
 LAT 16 28.3S LONG 169 59.6W WEATHER 0 SEA STATE 0
 BAROMETER 10 WIND DIR 000 T SPD 00 KT VISIBILITY 8
 CLOUD 0 AMOUNT 0 DRY 27.0 WET 28.0 DEPTH 5073 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.604	35.498	22.572	0.000
10	27.381	35.440	22.928	0.050
20	27.213	35.428	22.974	0.099
30	27.119	35.428	23.004	0.148
40	27.094	35.432	23.015	0.197
50	26.797	35.412	23.095	0.245
60	26.617	35.415	23.154	0.293
70	26.557	35.419	23.177	0.340
80	26.497	35.422	23.197	0.387
90	26.391	35.477	23.272	0.434
100	26.106	35.455	23.346	0.480
110	25.475	35.502	23.577	0.525
120	24.647	35.496	23.825	0.567
130	23.996	35.587	24.089	0.608
140	23.219	35.620	24.342	0.645
150	22.979	35.724	24.490	0.680
160	22.887	35.869	24.627	0.714
170	22.024	35.813	24.831	0.747
180	21.924	35.820	24.864	0.779
190	21.736	35.829	24.924	0.810
200	21.336	35.800	25.012	0.840
250	18.702	35.531	25.504	0.981
300	15.887	35.222	25.946	1.099
350	13.361	34.940	26.274	1.200
400	11.180	34.766	26.561	1.284
450	9.523	34.612	26.729	1.358
500	8.315	34.511	26.843	1.426
550	7.184	34.456	26.965	1.488
600	6.309	34.390	27.031	1.545
650	5.996	34.434	27.106	1.598
700	5.521	34.436	27.167	1.649
750	5.094	34.441	27.222	1.697
800	4.680	34.429	27.259	1.742
900	4.176	34.478	27.353	1.827
1000	3.920	34.514	27.408	1.905
1500	2.676	34.579	27.578	2.243
2000	2.109	34.628	27.665	2.522
2000	2.109	34.628	27.665	2.522

CAST CG1-90-MB -004 DATE 24 FEB 90 TIME 2149 GMT
LAT 18 00.2S LONG 170 00.4W

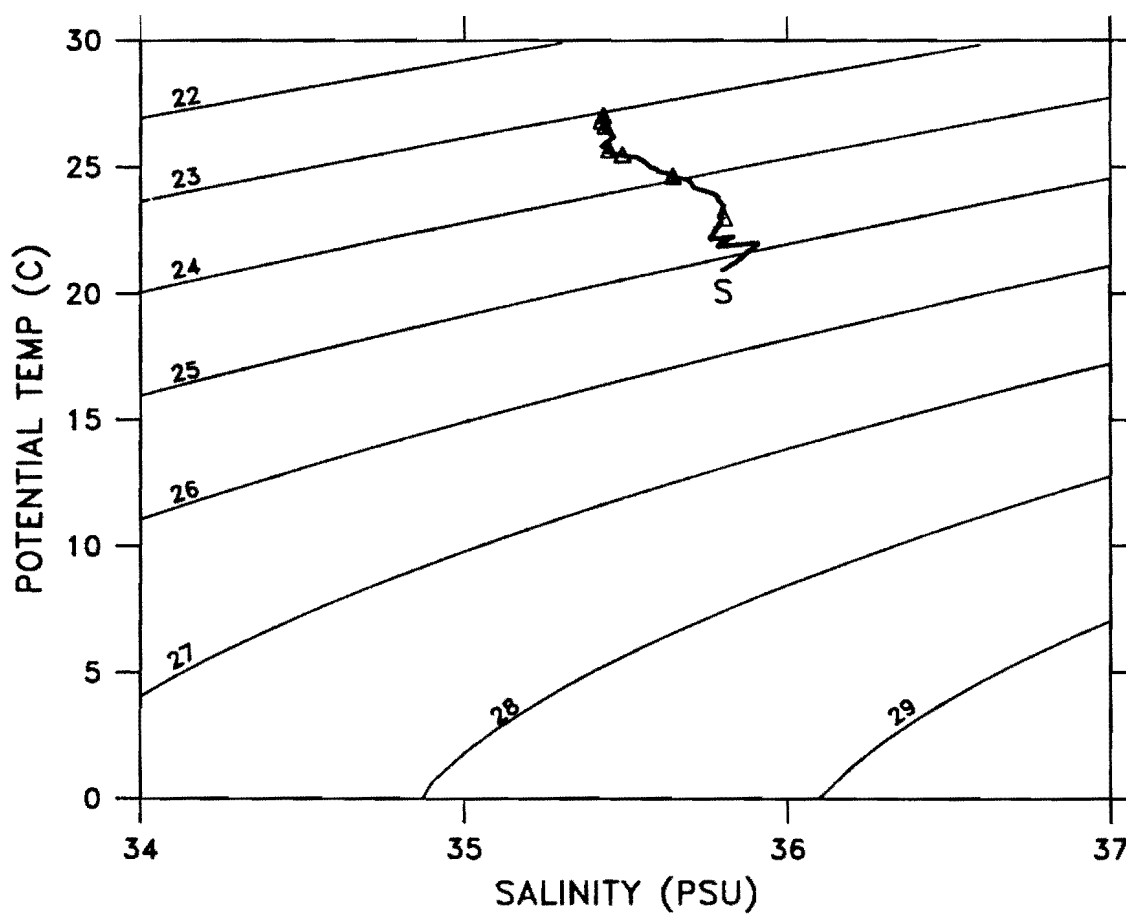




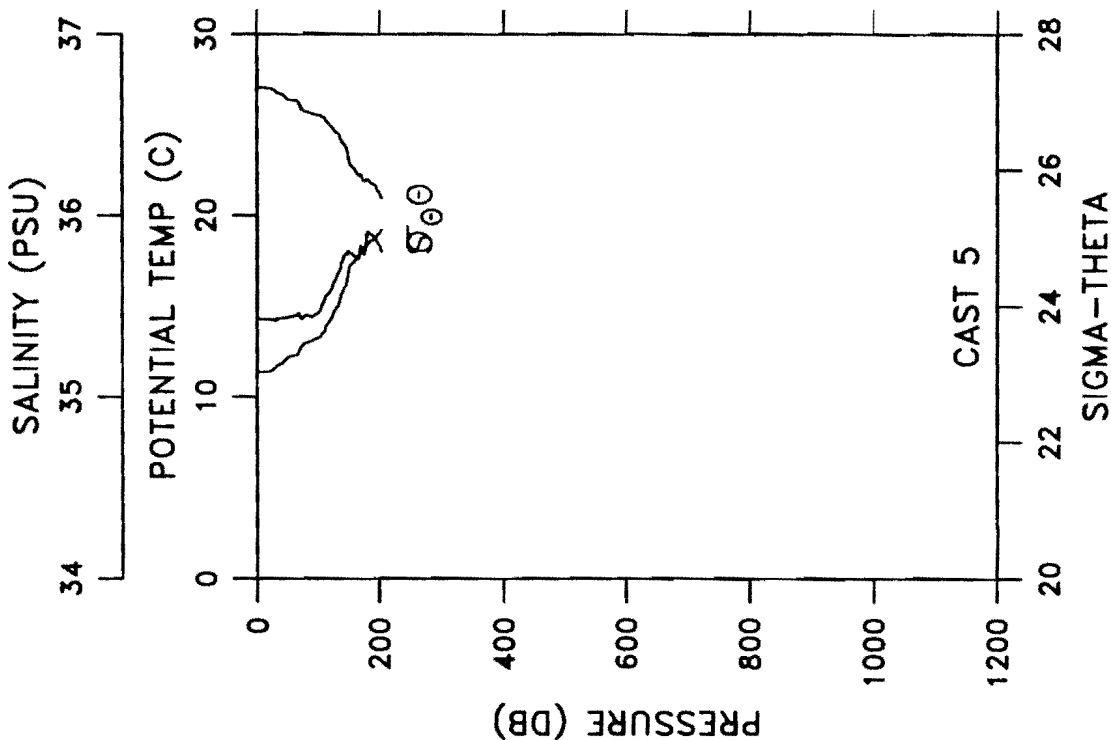
CAST CG1-90-MB -004 DATE 24 FEB 90 TIME 2149 GMT
 LAT 18 00.2S LONG 170 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 148 T SPD 07 KT VISIBILITY 7
 CLOUD 2 AMOUNT 6 DRY 29.3 WET 27.3 DEPTH 4929 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	27.674	35.411	22.812	0.000
10	27.654	35.418	22.824	0.050
20	27.079	35.423	23.013	0.099
30	26.757	35.440	23.129	0.147
40	26.694	35.442	23.150	0.195
50	26.415	35.429	23.229	0.242
60	26.175	35.434	23.308	0.288
70	26.126	35.430	23.321	0.334
80	26.109	35.430	23.326	0.379
90	25.946	35.443	23.387	0.425
100	25.775	35.452	23.446	0.470
110	25.583	35.461	23.513	0.515
120	25.317	35.507	23.629	0.558
130	24.997	35.560	23.767	0.601
140	24.439	35.594	23.961	0.642
150	23.254	35.645	24.351	0.680
160	22.384	35.604	24.570	0.715
170	22.061	35.689	24.726	0.749
180	21.847	35.767	24.846	0.781
190	21.319	35.716	24.953	0.812
200	21.312	35.749	24.980	0.842
250	19.088	35.598	25.457	0.984
300	17.529	35.422	25.712	1.108
350	15.016	35.160	26.092	1.217
400	12.219	34.850	26.431	1.310
450	9.798	34.649	26.713	1.388
500	8.146	34.499	26.859	1.455
550	7.295	34.430	26.928	1.517
600	6.662	34.382	26.978	1.576
650	6.176	34.364	27.028	1.633
700	5.666	34.370	27.097	1.687
750	5.385	34.385	27.142	1.739
800	4.935	34.390	27.199	1.788
900	4.389	34.429	27.291	1.879
1000	3.772	34.466	27.385	1.961
1500	2.513	34.592	27.602	2.287
2000	2.066	34.631	27.671	2.560
2005	2.066	34.631	27.671	2.562

CAST CG1-90-MB -005 DATE 25 FEB 90 TIME 0816 GMT
LAT 20 00.2S LONG 169 59.6W

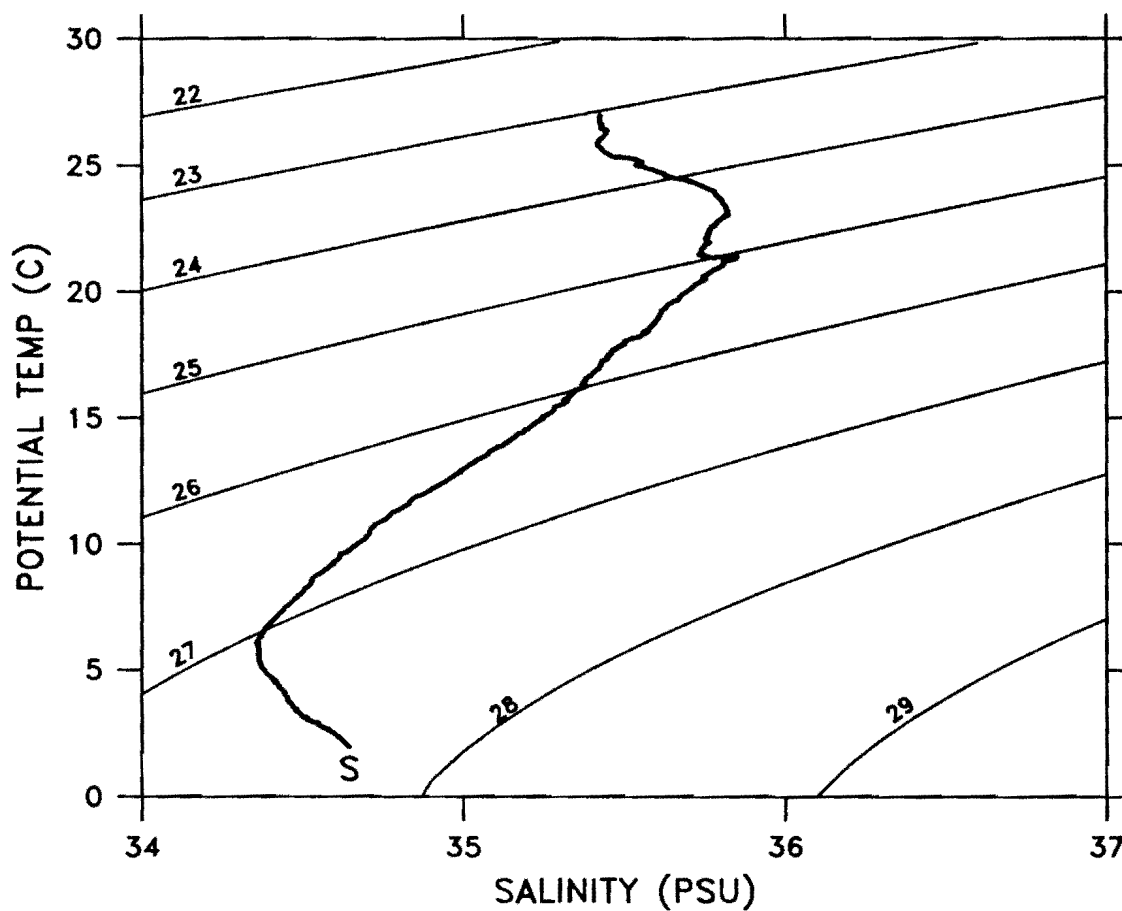


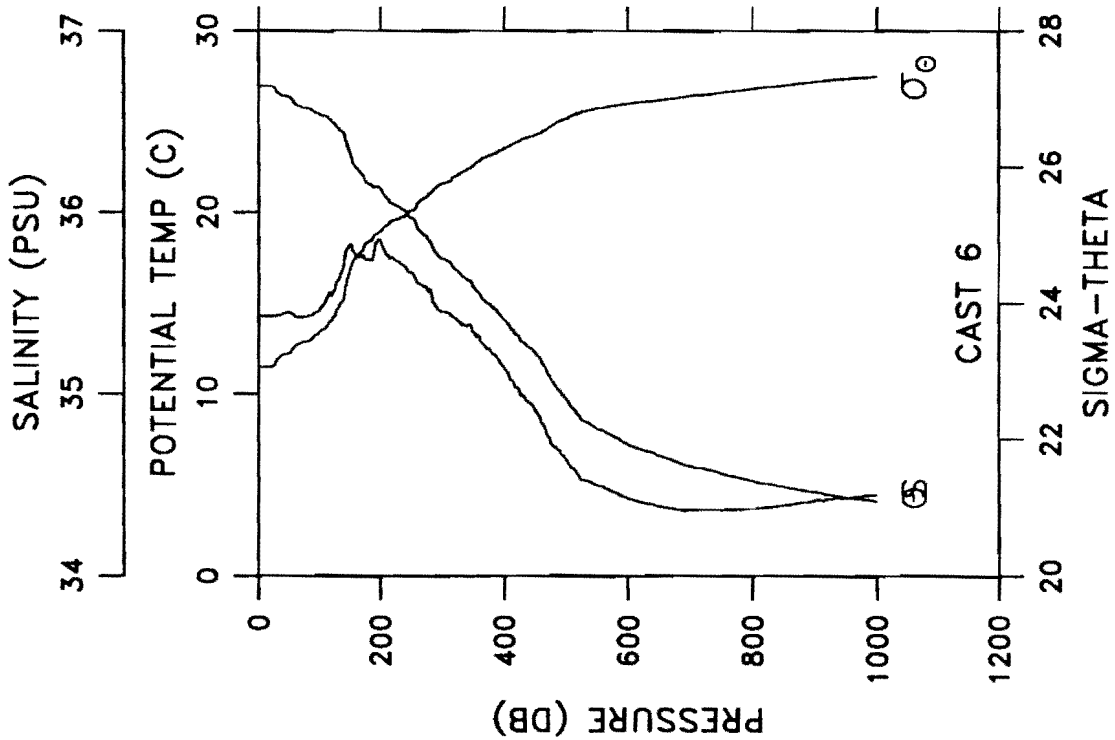
CAST CG1-90-MB -005 DATE 25 FEB 90 TIME 0816 GMT
 LAT 20 00.2S LONG 169 59.6W WEATHER 1 SEA STATE 1
 BAROMETER 86 WIND DIR 180 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 26.5 WET 26.0 DEPTH 5320 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	27.063	35.427	23.022	0.000
10	27.049	35.428	23.027	0.048
20	27.020	35.426	23.034	0.097
30	26.852	35.421	23.085	0.145
40	26.672	35.431	23.149	0.192
50	26.388	35.437	23.243	0.239
60	26.344	35.445	23.264	0.285
70	25.908	35.433	23.391	0.331
80	25.727	35.449	23.459	0.376
90	25.608	35.445	23.493	0.421
100	25.525	35.470	23.538	0.465
110	25.311	35.543	23.658	0.508
120	24.941	35.590	23.807	0.550
130	24.545	35.678	23.993	0.591
140	23.976	35.765	24.229	0.629
150	22.927	35.795	24.560	0.666
160	22.465	35.777	24.678	0.699
170	22.183	35.820	24.791	0.732
180	22.006	35.908	24.908	0.764
190	21.725	35.887	24.970	0.794
200	21.215	35.836	25.073	0.824
204	20.941	35.797	25.119	0.836

CAST CG1-90-MB -006 DATE 25 FEB 90 TIME 1100 GMT
LAT 20 02.1S LONG 169 59.9W

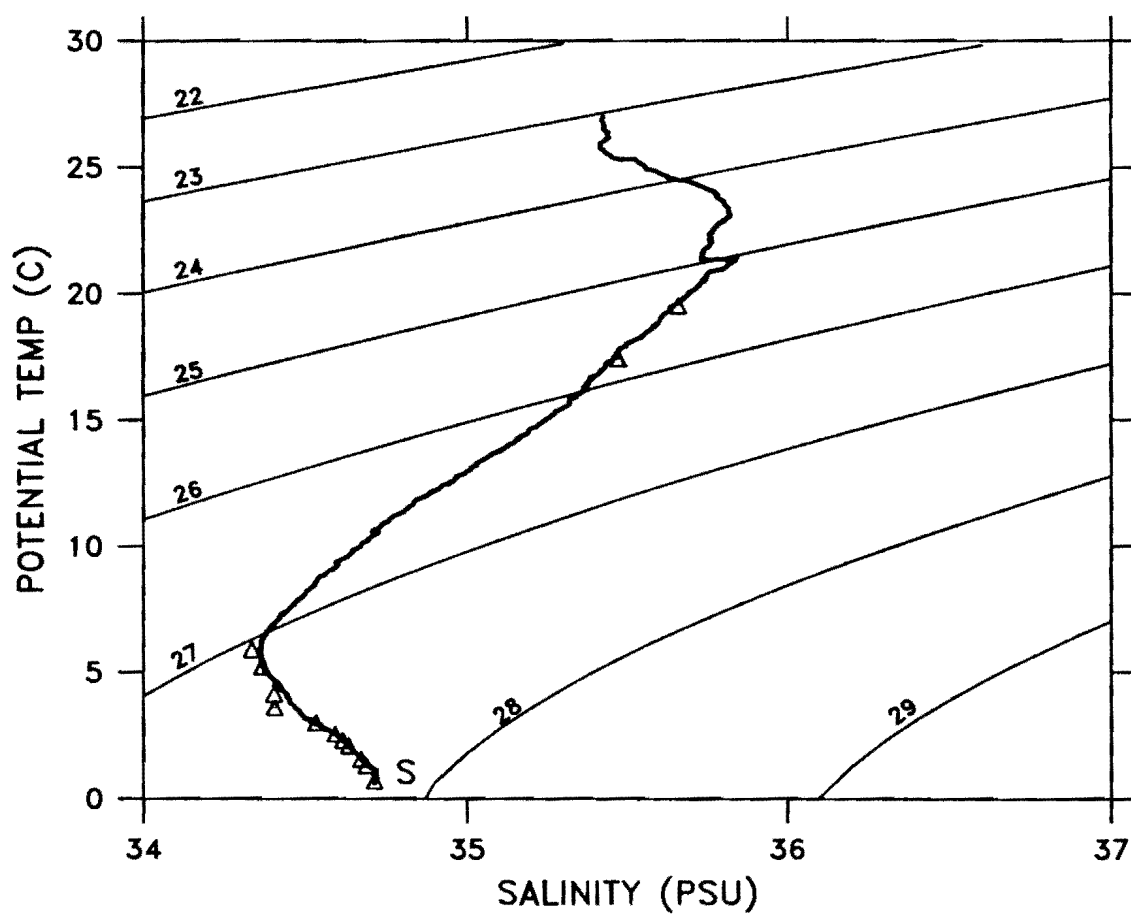




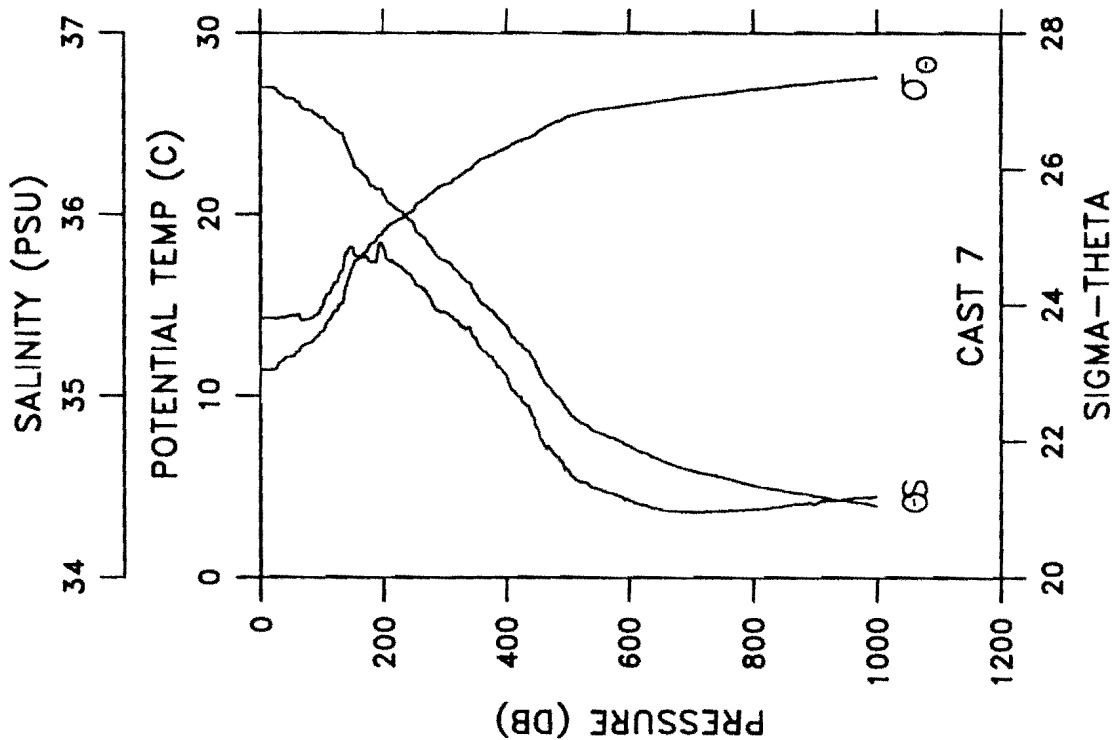
CAST CG1-90-MB -006 DATE 25 FEB 90 TIME 1100 GMT
 LAT 20 02.1S LONG 169 59.9W WEATHER SEA STATE
 BAROMETER WIND DIR T SPD KT VISIBILITY
 CLOUD AMOUNT DRY WET DEPTH 5361 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.960	35.429	23.056	0.000
10	26.956	35.429	23.057	0.048
20	26.951	35.429	23.058	0.096
30	26.657	35.434	23.156	0.144
40	26.430	35.441	23.233	0.191
50	26.387	35.449	23.253	0.237
60	25.960	35.422	23.366	0.283
70	25.804	35.421	23.414	0.328
80	25.745	35.427	23.437	0.373
90	25.560	35.440	23.504	0.418
100	25.408	35.458	23.565	0.461
110	25.310	35.511	23.635	0.505
120	25.016	35.540	23.746	0.547
130	24.669	35.624	23.915	0.588
140	24.302	35.723	24.100	0.628
150	23.205	35.821	24.498	0.664
160	22.412	35.763	24.682	0.698
170	22.081	35.754	24.770	0.731
180	21.570	35.739	24.902	0.763
190	21.391	35.803	25.000	0.794
200	21.294	35.842	25.056	0.824
250	19.678	35.669	25.358	0.965
300	17.444	35.455	25.758	1.091
350	15.911	35.340	26.030	1.202
400	14.093	35.142	26.278	1.300
450	12.275	34.915	26.470	1.388
500	9.769	34.644	26.713	1.465
550	8.080	34.496	26.866	1.533
600	7.202	34.422	26.936	1.595
650	6.595	34.380	26.985	1.654
700	6.014	34.362	27.047	1.711
750	5.598	34.358	27.096	1.765
800	5.206	34.367	27.150	1.817
900	4.588	34.411	27.255	1.912
1000	4.060	34.440	27.335	1.999
1500	2.544	34.588	27.597	2.333
2000	2.073	34.632	27.671	2.606
2152	1.949	34.641	27.688	2.684

CAST CG1-90-MB -007 DATE 25 FEB 90 TIME 2049 GMT
LAT 20 00.7S LONG 169 59.6W

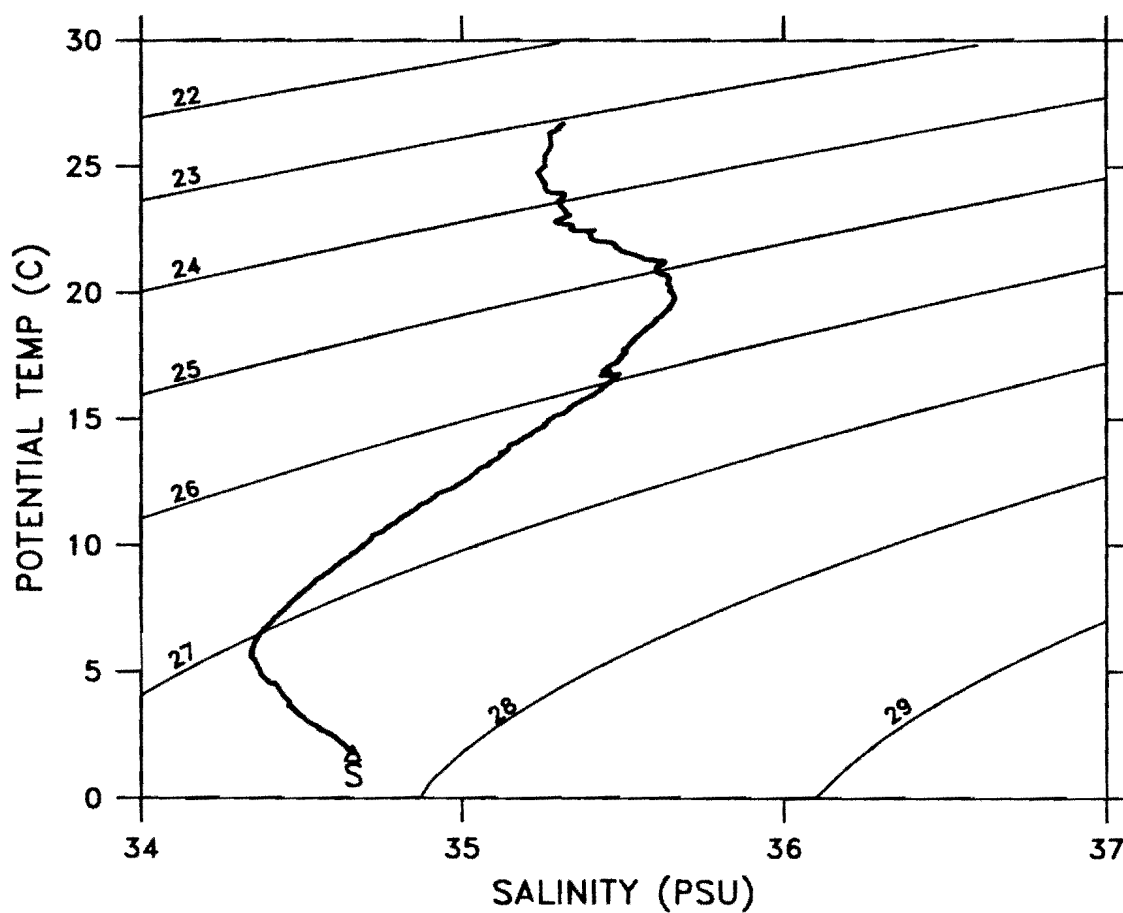


CAST CG1-90-MB -007 DATE 25 FEB 90 TIME 2049 GMT
 LAT 20 00.7S LONG 169 59.6W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 116 T SPD 10 KT VISIBILITY 7
 CLOUD 2 AMOUNT 6 DRY 28.0 WET 25.8 DEPTH 5320 M

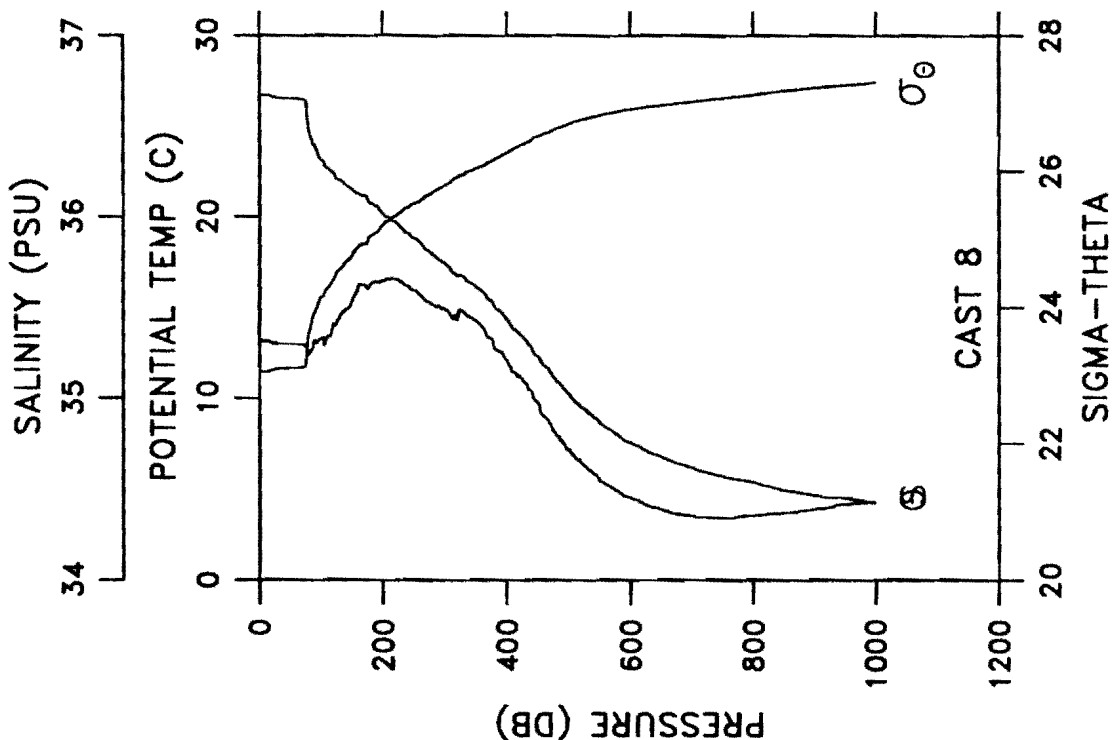


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.981	35.428	23.048	0.000
10	26.987	35.427	23.046	0.048
20	26.980	35.426	23.047	0.096
30	26.692	35.429	23.141	0.144
40	26.447	35.433	23.222	0.191
50	26.402	35.440	23.241	0.238
60	26.186	35.447	23.314	0.284
70	25.808	35.417	23.410	0.330
80	25.729	35.424	23.439	0.374
90	25.526	35.444	23.517	0.419
100	25.323	35.485	23.611	0.462
110	25.011	35.559	23.762	0.505
120	24.695	35.620	23.904	0.546
130	24.485	35.678	24.011	0.586
140	23.843	35.779	24.280	0.625
150	23.032	35.815	24.544	0.660
160	22.432	35.788	24.680	0.694
170	22.112	35.761	24.766	0.727
180	21.571	35.735	24.898	0.759
190	21.352	35.775	24.989	0.790
200	21.072	35.811	25.093	0.820
250	19.313	35.634	25.426	0.959
300	17.412	35.458	25.768	1.082
350	15.574	35.316	26.088	1.192
400	13.847	35.109	26.304	1.288
450	11.578	34.826	26.534	1.374
500	9.204	34.594	26.768	1.448
550	7.960	34.485	26.876	1.514
600	7.236	34.424	26.932	1.576
650	6.459	34.376	27.000	1.635
700	5.908	34.362	27.060	1.691
750	5.517	34.366	27.111	1.744
800	5.067	34.376	27.173	1.794
900	4.482	34.404	27.261	1.888
1000	3.956	34.447	27.351	1.973
1500	2.535	34.590	27.599	2.304
2000	2.069	34.632	27.671	2.577
2500	1.752	34.657	27.716	2.826
3000	1.532	34.672	27.745	3.065
3500	1.316	34.687	27.772	3.296
4000	0.971	34.718	27.821	3.506
4500	0.684	34.715	27.837	3.695
5000	0.616	34.712	27.838	3.881
5420	0.604	34.712	27.839	4.042

CAST CG1-90-MB -008 DATE 26 FEB 90 TIME 0657 GMT
LAT 21 09.1S LONG 170 01.7W

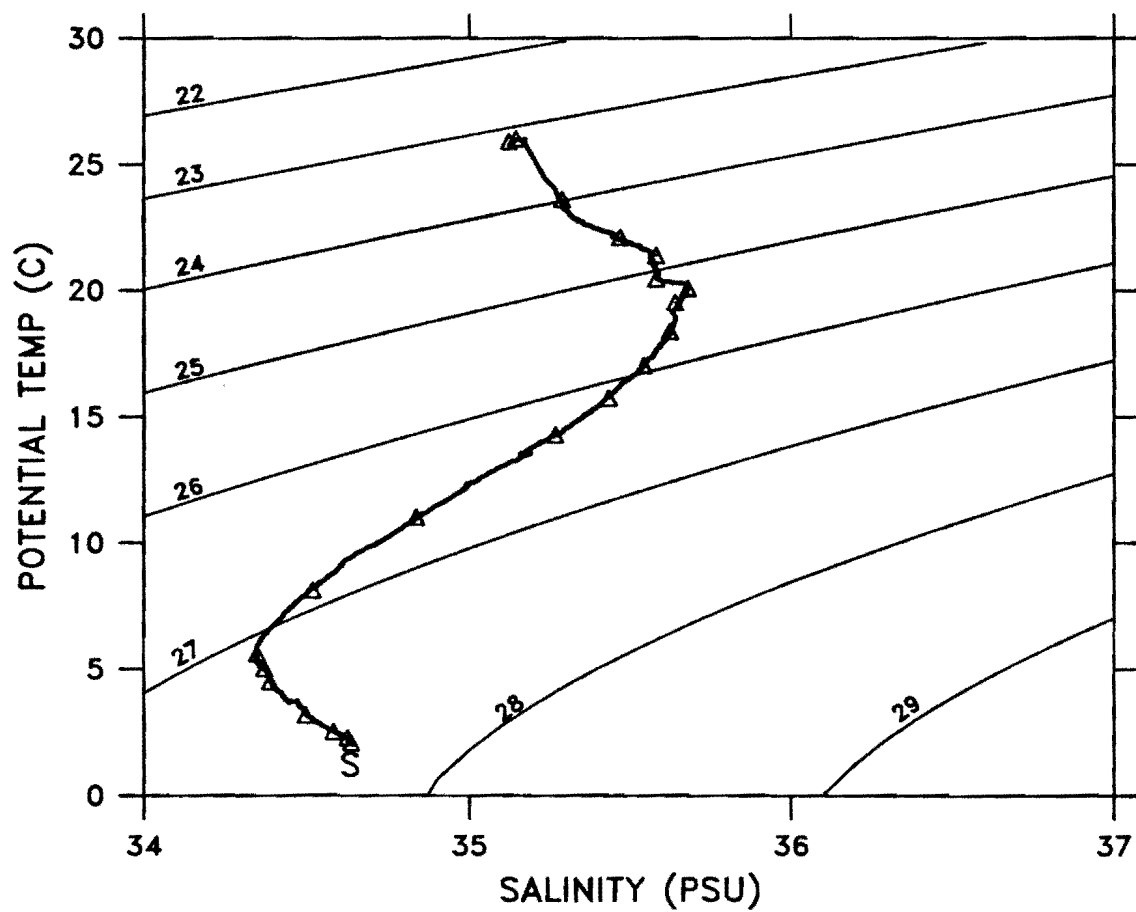


CST CG1-90-MB -008 DATE 26 FEB 90 TIME 0657 GMT
 LAT 21 09.1S LONG 170 01.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 120 T SPD 10 KT VISIBILITY 7
 CLOUD 2 AMOUNT 4 DRY 25.3 WET 24.0 DEPTH 5433 M

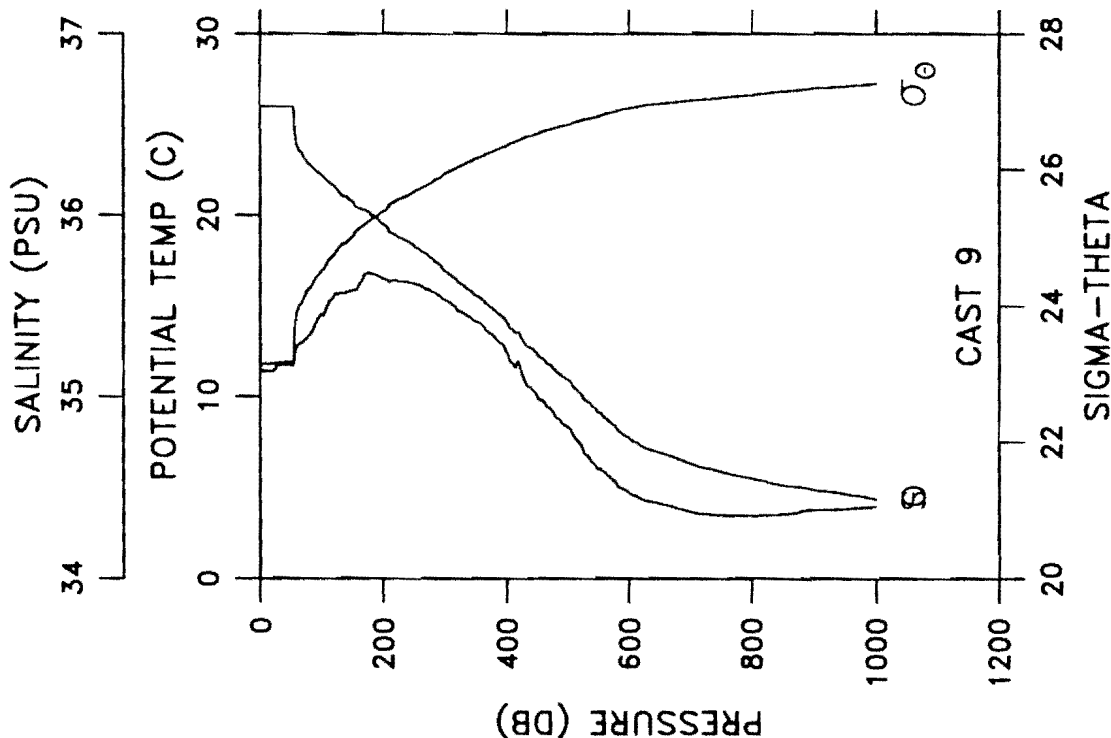


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.698	35.314	23.053	0.000
10	26.696	35.314	23.053	0.048
20	26.619	35.307	23.072	0.096
30	26.535	35.303	23.098	0.144
40	26.519	35.303	23.101	0.192
50	26.506	35.302	23.104	0.240
60	26.485	35.297	23.108	0.287
70	26.457	35.295	23.114	0.335
80	24.773	35.236	23.590	0.382
90	23.897	35.319	23.915	0.423
100	23.140	35.329	24.144	0.462
110	22.705	35.333	24.273	0.500
120	22.480	35.411	24.396	0.536
130	22.034	35.438	24.543	0.571
140	21.758	35.487	24.657	0.605
150	21.536	35.528	24.750	0.638
160	21.290	35.602	24.874	0.670
170	21.158	35.624	24.927	0.701
180	20.733	35.623	25.043	0.732
190	20.585	35.644	25.098	0.761
200	20.171	35.647	25.211	0.780
250	18.806	35.594	25.526	0.924
300	17.411	35.488	25.791	1.045
350	16.154	35.428	26.043	1.154
400	14.370	35.210	26.272	1.253
450	12.309	34.978	26.513	1.340
500	10.236	34.718	26.691	1.417
550	8.643	34.544	26.817	1.487
600	7.542	34.451	26.910	1.551
650	6.766	34.389	26.970	1.611
700	6.175	34.353	27.020	1.669
750	5.687	34.343	27.073	1.724
800	5.358	34.354	27.122	1.777
900	4.642	34.388	27.231	1.875
1000	4.196	34.432	27.314	1.964
1500	2.528	34.586	27.597	2.312
2000	2.101	34.630	27.667	2.586
2500	1.769	34.656	27.714	2.838
2501	1.769	34.656	27.714	2.839

CAST CG1-90-MB -009 DATE 26 FEB 90 TIME 1300 GMT
LAT 21 59.5S LONG 169 59.8W

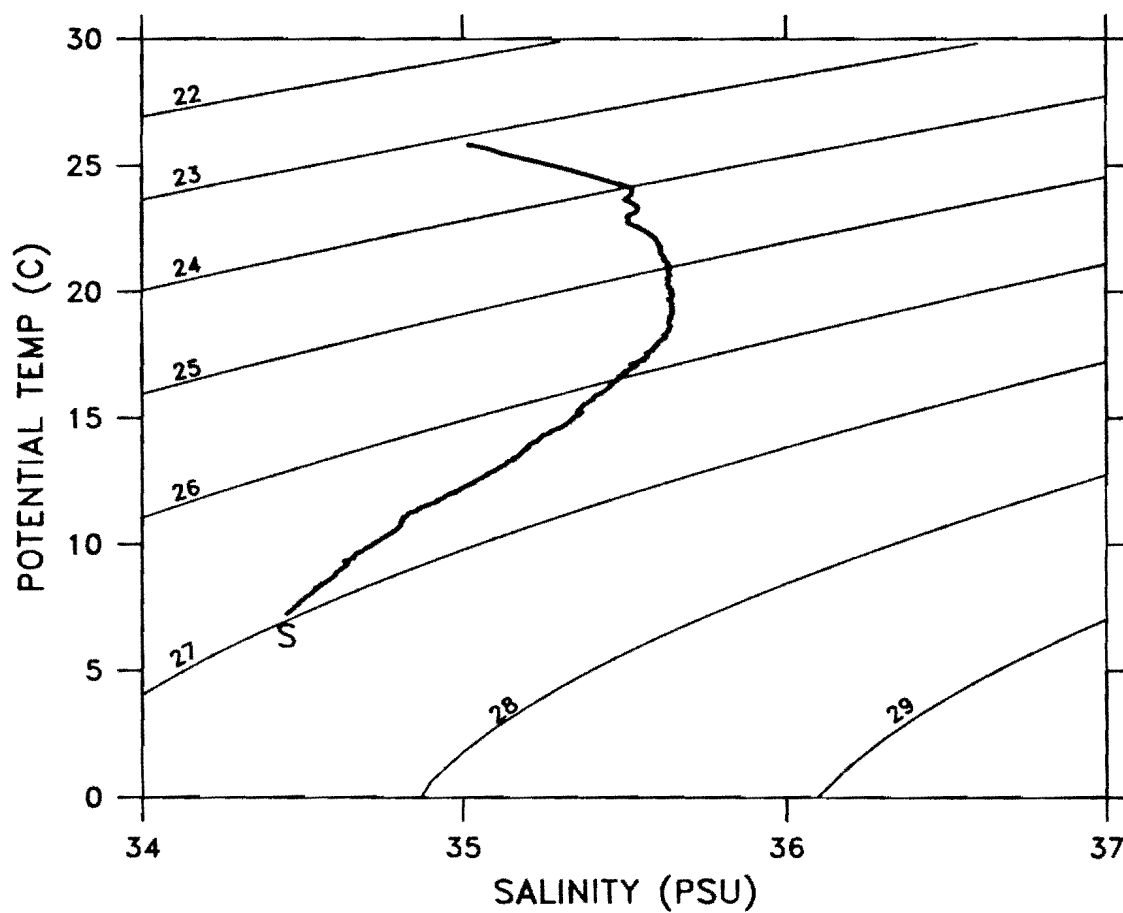


CAST CG1-90-MB -009 DATE 26 FEB 90 TIME 1300 GMT
 LAT 21 59.55 LONG 169 59.8W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 103 T SPD 10 KT VISIBILITY 8
 CLOUD X AMOUNT 3 DRY 24.0 WET 24.0 DEPTH 4839 M

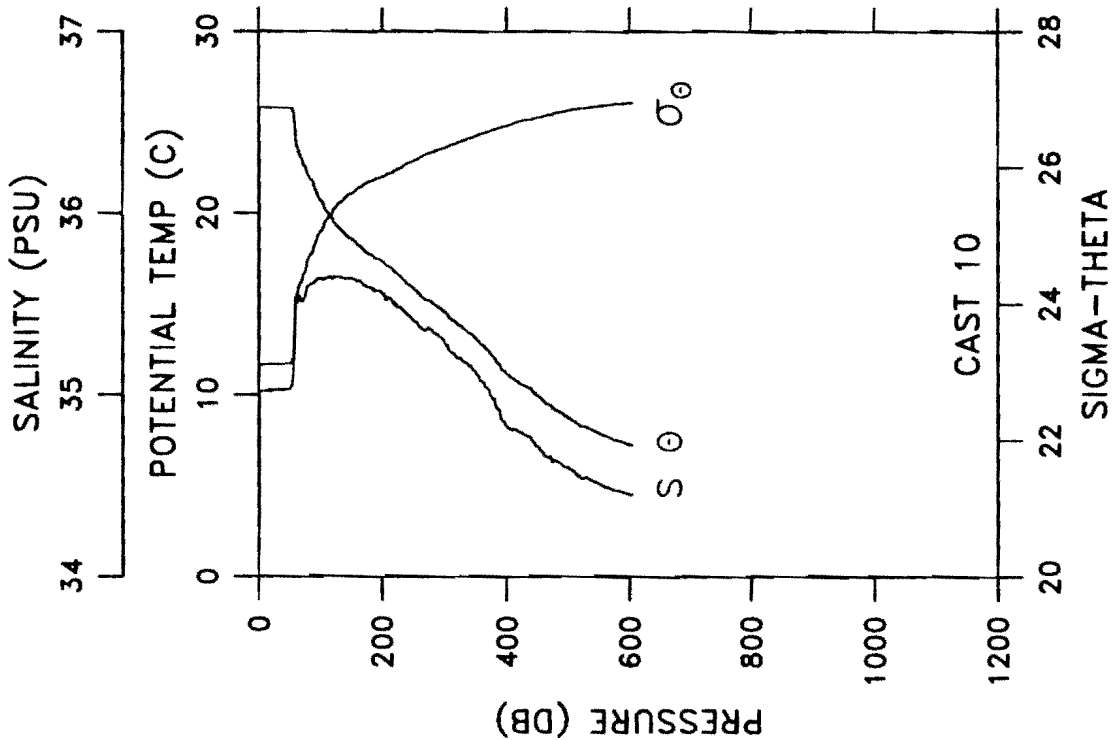


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.980	35.150	23.154	0.000
10	25.987	35.139	23.144	0.047
20	25.964	35.140	23.152	0.094
30	25.992	35.169	23.166	0.142
40	25.994	35.174	23.168	0.189
50	25.977	35.171	23.172	0.236
60	23.734	35.280	23.934	0.280
70	23.188	35.301	24.109	0.319
80	22.770	35.337	24.257	0.357
90	22.437	35.402	24.402	0.393
100	22.161	35.448	24.515	0.428
110	21.834	35.507	24.651	0.462
120	21.604	35.554	24.751	0.495
130	21.185	35.570	24.879	0.527
140	21.020	35.573	24.926	0.557
150	20.741	35.586	25.011	0.588
160	20.373	35.609	25.128	0.617
170	20.282	35.677	25.204	0.646
180	20.017	35.677	25.275	0.674
190	19.797	35.669	25.327	0.701
200	19.497	35.650	25.391	0.728
250	18.288	35.624	25.679	0.853
300	16.929	35.534	25.942	0.968
350	15.576	35.414	26.164	1.071
400	14.072	35.238	26.357	1.165
450	12.330	34.989	26.518	1.249
500	10.927	34.831	26.657	1.327
550	9.125	34.600	26.785	1.398
600	7.701	34.471	26.903	1.463
650	6.910	34.412	26.968	1.524
700	6.291	34.366	27.015	1.582
750	5.858	34.347	27.054	1.638
800	5.511	34.347	27.097	1.692
900	4.884	34.379	27.196	1.793
1000	4.334	34.395	27.270	1.887
1500	2.515	34.580	27.593	2.242
2000	2.079	34.634	27.672	2.514
2004	2.076	34.635	27.673	2.516

CAST CG1-90-MB -010 DATE 26 FEB 90 TIME 2310 GMT
LAT 23 37.2S LONG 170 00.3W

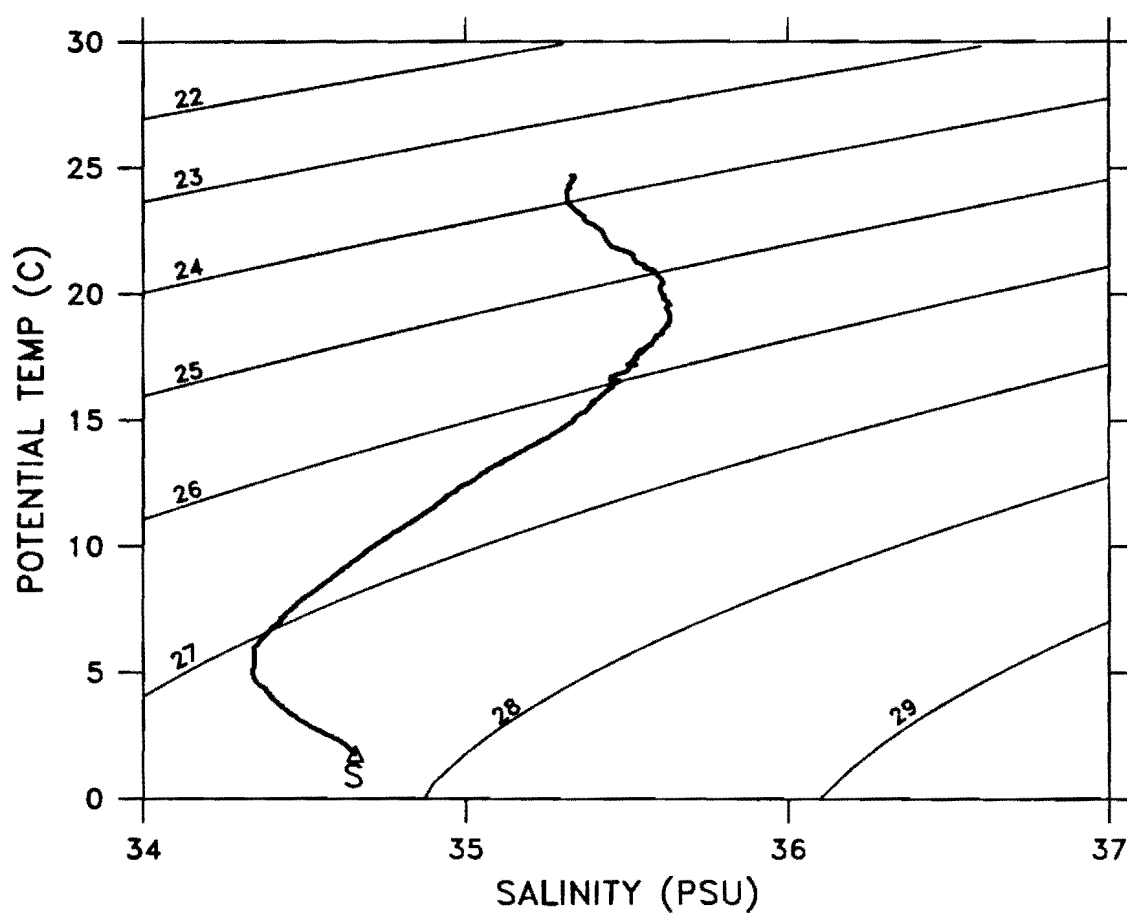


CAST CG1-90-MB -010 DATE 26 FEB 90 TIME 2310 GMT
 LAT 23 37.2S LONG 170 00.3W WEATHER 2 SEA STATE 2
 BAROMETER 13 WIND DIR 098 T SPD 18 KT VISIBILITY 7
 CLOUD 9 AMOUNT 8 DRY 24.0 WET 23.5 DEPTH 5660 M

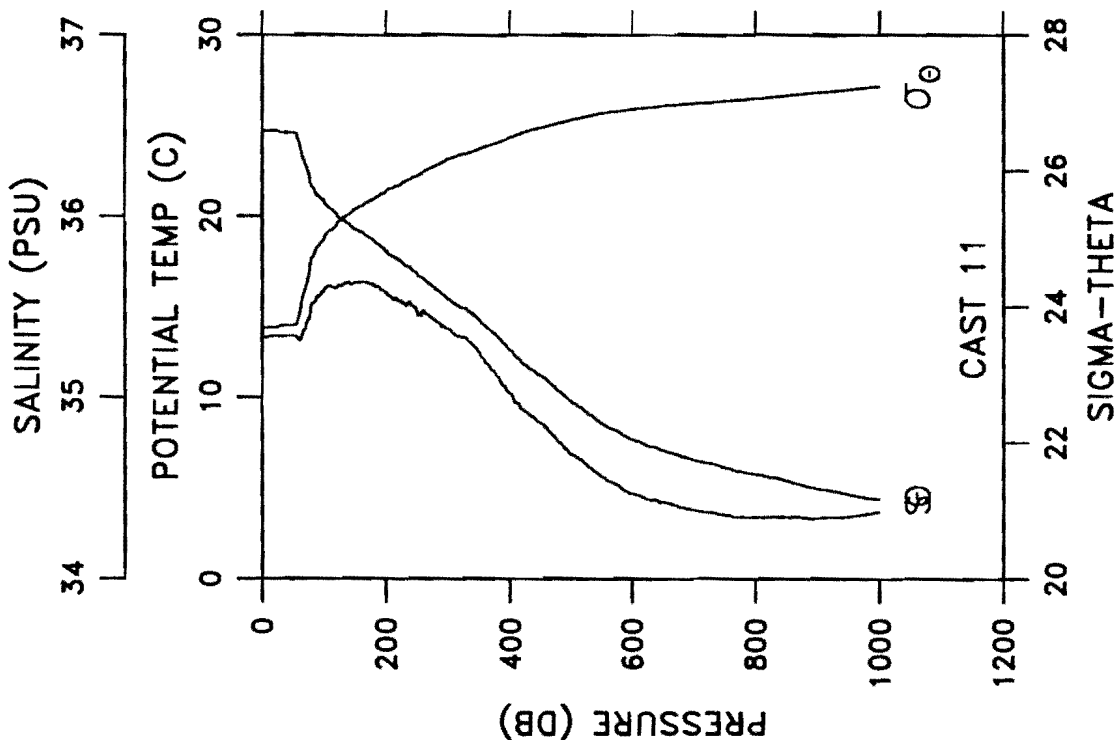


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.837	35.019	23.101	0.000
10	25.824	35.020	23.105	0.048
20	25.813	35.023	23.111	0.095
30	25.811	35.027	23.114	0.143
40	25.810	35.028	23.116	0.190
50	25.803	35.032	23.120	0.238
60	23.869	35.522	24.077	0.283
70	22.857	35.513	24.365	0.320
80	22.031	35.598	24.665	0.355
90	21.365	35.621	24.868	0.387
100	20.683	35.641	25.070	0.417
110	20.068	35.646	25.238	0.446
120	19.570	35.647	25.370	0.473
130	19.196	35.647	25.467	0.499
140	18.844	35.637	25.549	0.524
150	18.591	35.639	25.615	0.548
160	18.242	35.625	25.692	0.572
170	17.990	35.604	25.738	0.595
180	17.739	35.591	25.790	0.618
190	17.483	35.573	25.839	0.641
200	17.334	35.555	25.861	0.663
250	15.877	35.408	26.090	0.768
300	14.555	35.286	26.290	0.862
350	13.095	35.120	26.468	0.949
400	11.153	34.829	26.615	1.028
450	9.981	34.718	26.736	1.101
500	8.785	34.603	26.841	1.168
550	7.895	34.511	26.906	1.232
600	7.275	34.453	26.950	1.292
604	7.235	34.451	26.953	1.297

CAST CG1-90-MB -011 DATE 27 FEB 90 TIME 1157 GMT
LAT 24 59.9S LONG 170 01.4W

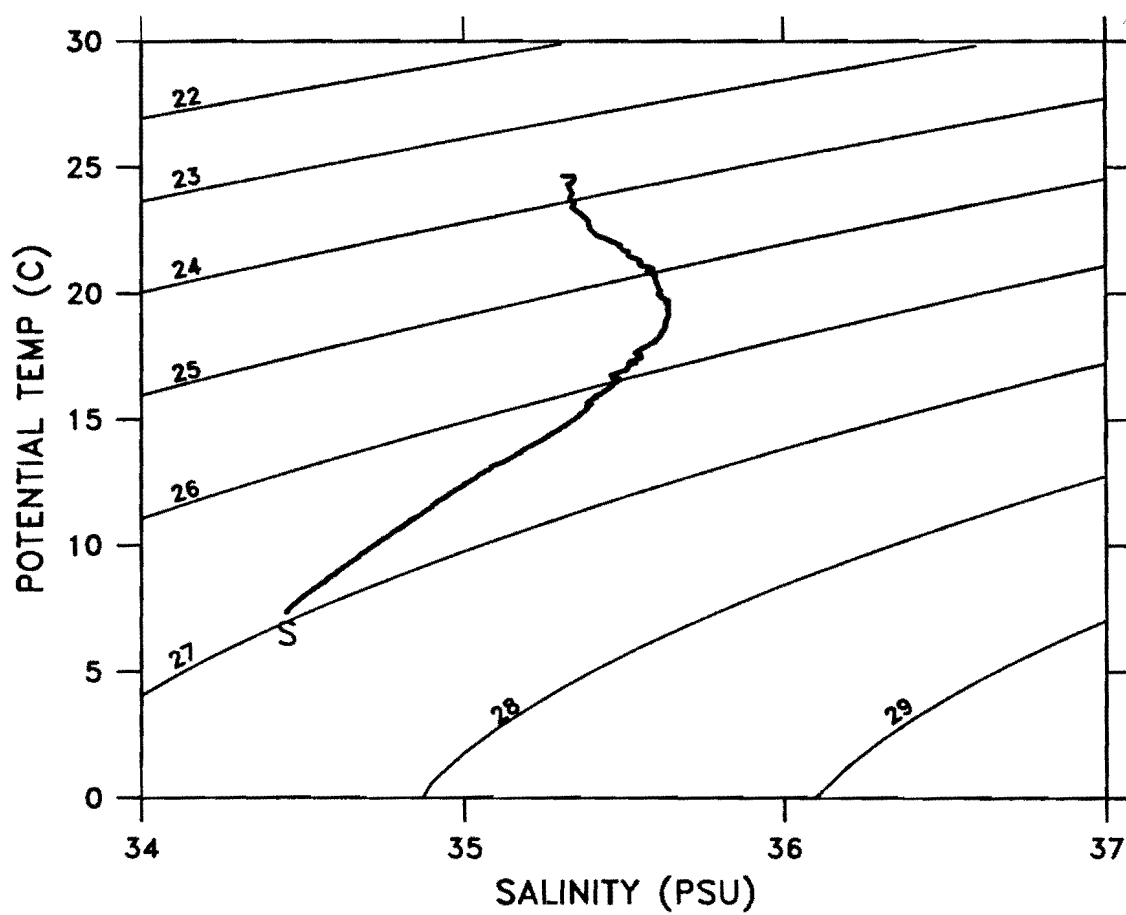


CAST CG1-90-MB -011 DATE 27 FEB 90 TIME 1157 GMT
 LAT 24 59.9S LONG 170 01.4W WEATHER 8 SEA STATE 2
 BAROMETER 14 WIND DIR 090 T SPD 20 KT VISIBILITY 8
 CLOUD X AMOUNT 2 DRY 24.0 WET 23.5 DEPTH 5753 M

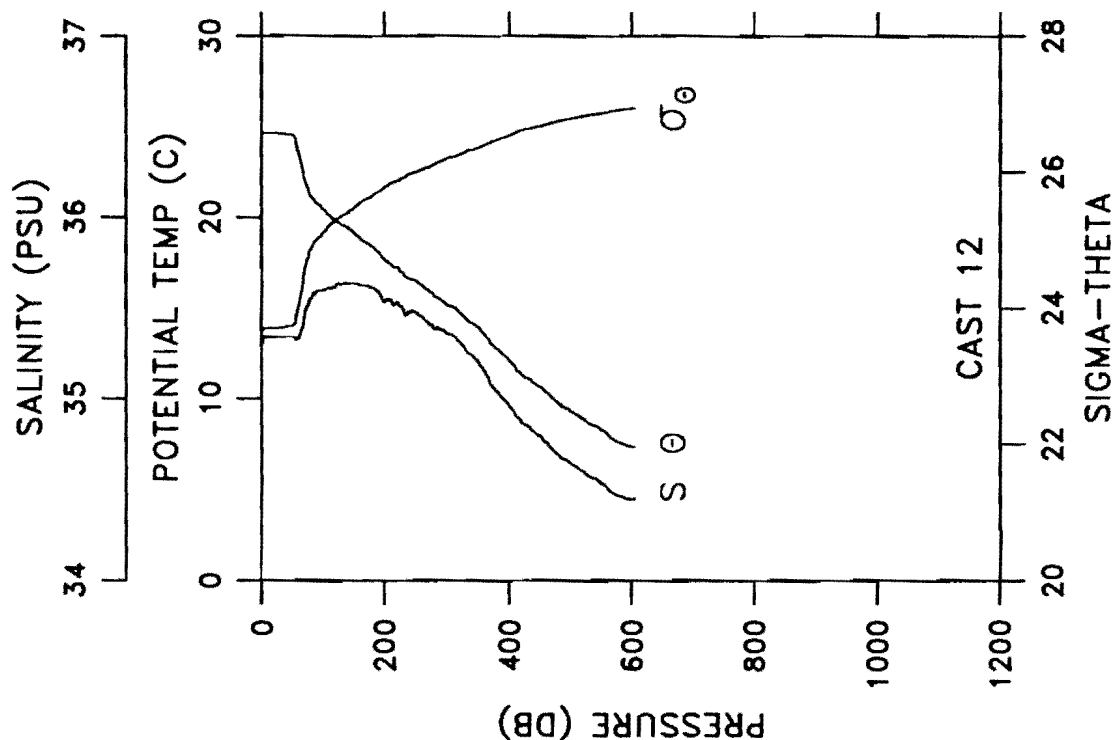


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.698	35.328	23.682	0.000
10	24.694	35.332	23.687	0.042
20	24.697	35.336	23.689	0.084
30	24.606	35.334	23.715	0.126
40	24.595	35.336	23.719	0.168
50	24.579	35.337	23.725	0.210
60	23.814	35.315	23.937	0.251
70	22.720	35.403	24.322	0.289
80	21.587	35.519	24.729	0.323
90	21.071	35.555	24.899	0.355
100	20.669	35.600	25.042	0.385
110	20.397	35.609	25.122	0.414
120	20.028	35.606	25.218	0.443
130	19.745	35.622	25.305	0.470
140	19.541	35.628	25.363	0.497
150	19.252	35.632	25.440	0.523
160	19.109	35.634	25.479	0.549
170	18.867	35.630	25.538	0.574
180	18.635	35.618	25.588	0.599
190	18.342	35.589	25.639	0.623
200	18.023	35.574	25.707	0.647
250	16.765	35.458	25.923	0.760
300	15.392	35.375	26.175	0.862
350	14.268	35.247	26.322	0.955
400	12.595	35.020	26.489	1.041
450	11.177	34.857	26.633	1.120
500	9.753	34.685	26.748	1.192
550	8.549	34.562	26.847	1.260
600	7.660	34.472	26.910	1.324
650	7.077	34.426	26.956	1.385
700	6.541	34.382	26.994	1.444
750	6.132	34.355	27.026	1.501
800	5.755	34.342	27.063	1.557
900	4.964	34.335	27.152	1.662
1000	4.400	34.372	27.244	1.759
1500	2.590	34.557	27.568	2.130
2000	2.064	34.631	27.671	2.405
2499	1.773	34.654	27.712	2.656

CAST CG1-90-MB -012 DATE 27 FEB 90 TIME 1509 GMT
LAT 25 00.4S LONG 170 00.5W

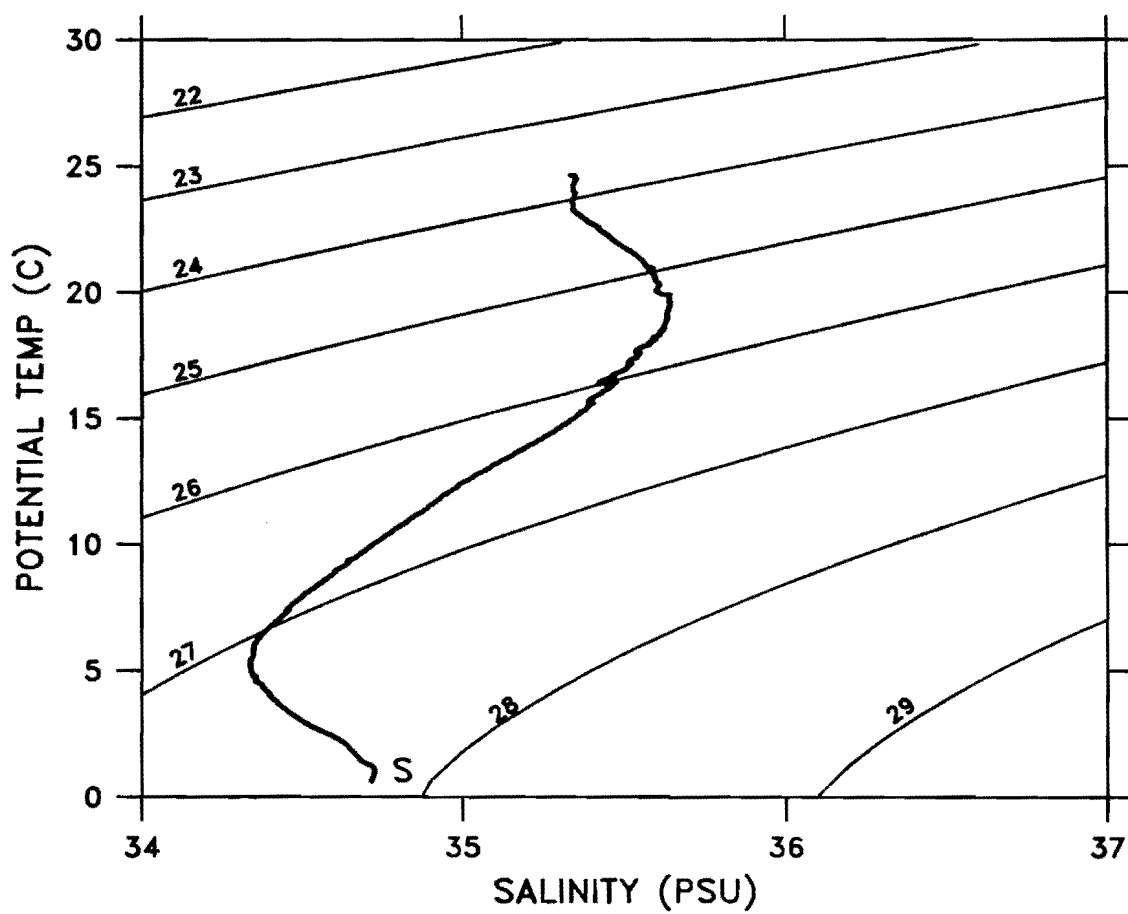


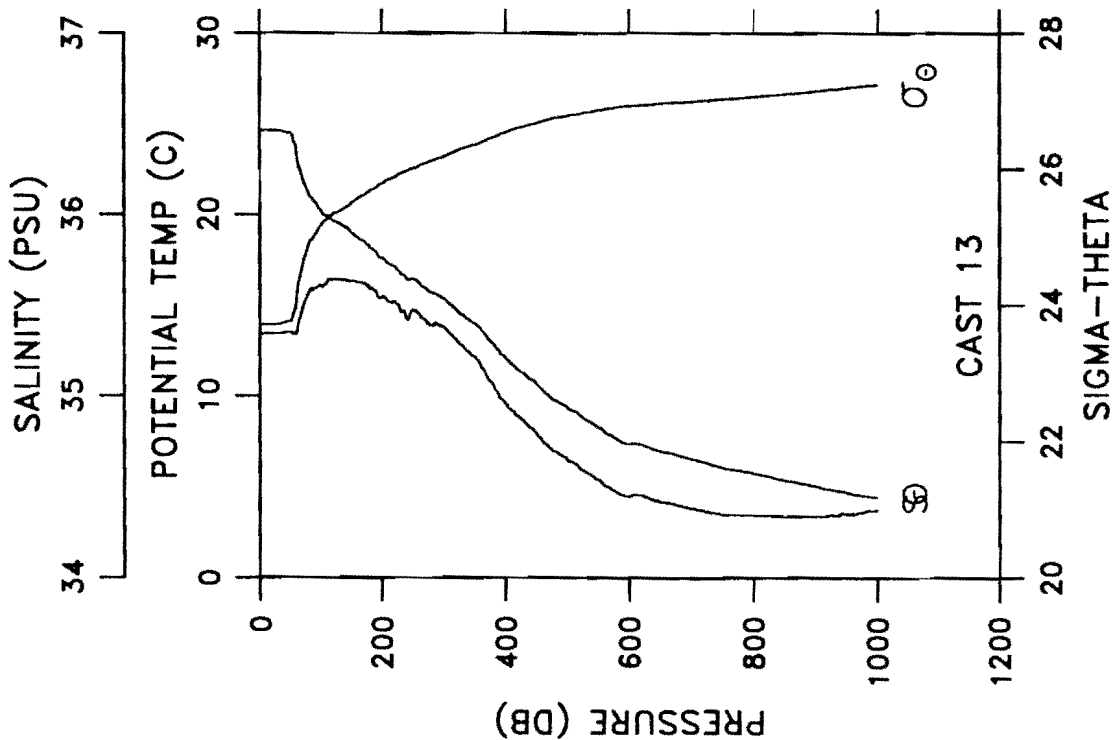
CAST CG1-90-MB -012 DATE 27 FEB 90 TIME 1509 GMT
 LAT 25 00.4S LONG 170 00.5W WEATHER 2 SEA STATE 2
 BAROMETER 15 WIND DIR 100 T SPD 18 KT VISIBILITY 8
 CLOUD 2 AMOUNT 8 DRY 23.5 WET 23.0 DEPTH 5702 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	24.655	35.305	23.678	0.000
10	24.649	35.339	23.706	0.042
20	24.645	35.341	23.709	0.084
30	24.640	35.342	23.711	0.126
40	24.586	35.342	23.727	0.168
50	24.549	35.344	23.740	0.209
60	23.545	35.343	24.036	0.250
70	22.031	35.467	24.566	0.287
80	21.152	35.548	24.871	0.319
90	20.777	35.592	25.007	0.349
100	20.438	35.601	25.105	0.379
110	20.118	35.612	25.199	0.407
120	19.818	35.615	25.280	0.435
130	19.594	35.631	25.351	0.462
140	19.443	35.637	25.395	0.488
150	19.209	35.637	25.456	0.514
160	18.853	35.628	25.540	0.539
170	18.610	35.624	25.599	0.564
180	18.376	35.614	25.650	0.588
190	18.080	35.594	25.708	0.612
200	17.629	35.533	25.772	0.635
250	16.511	35.479	25.998	0.744
300	15.189	35.359	26.208	0.844
350	13.952	35.203	26.355	0.936
400	12.112	34.962	26.538	1.019
450	10.682	34.800	26.677	1.095
500	9.352	34.647	26.785	1.165
550	8.306	34.533	26.861	1.231
600	7.358	34.448	26.934	1.293
605	7.365	34.453	26.937	1.300

CAST CG1-90-MB -013 DATE 27 FEB 90 TIME 1837 GMT
LAT 25 01.3S LONG 170 00.9W

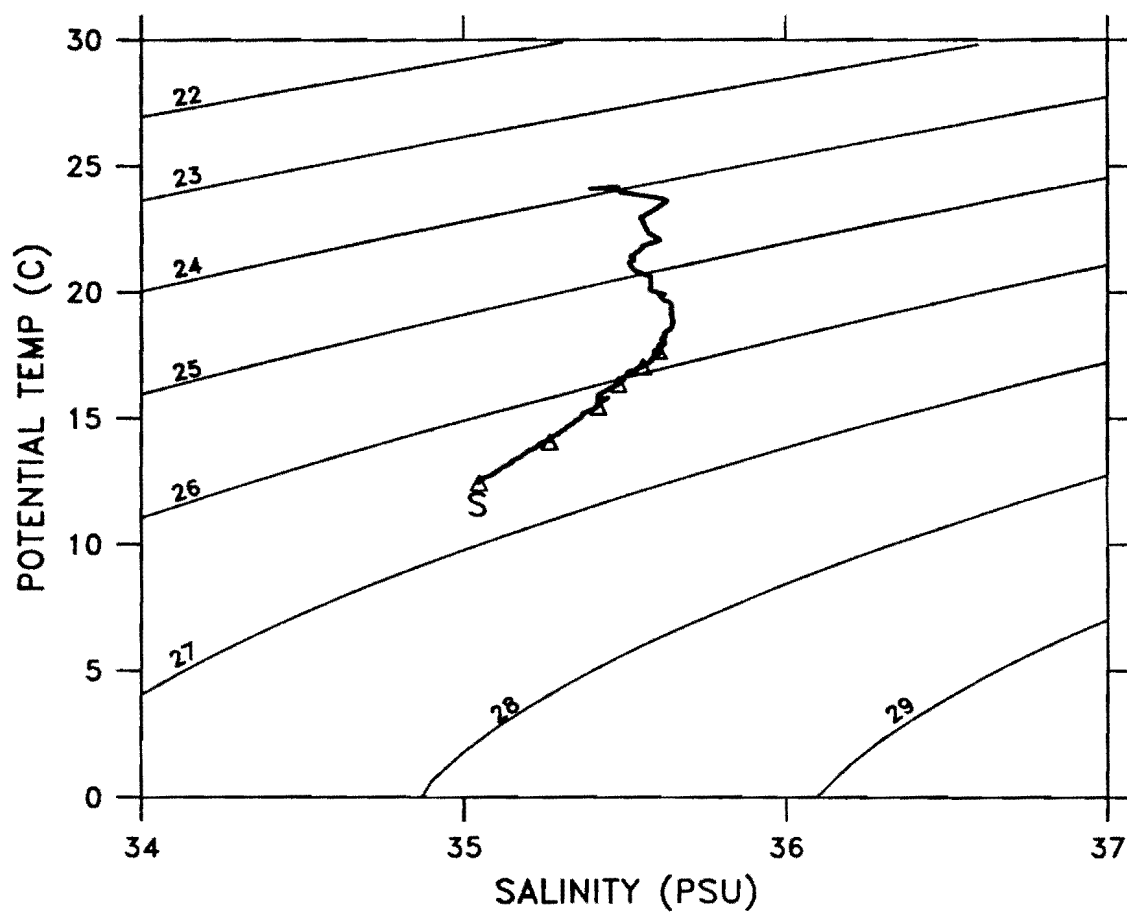


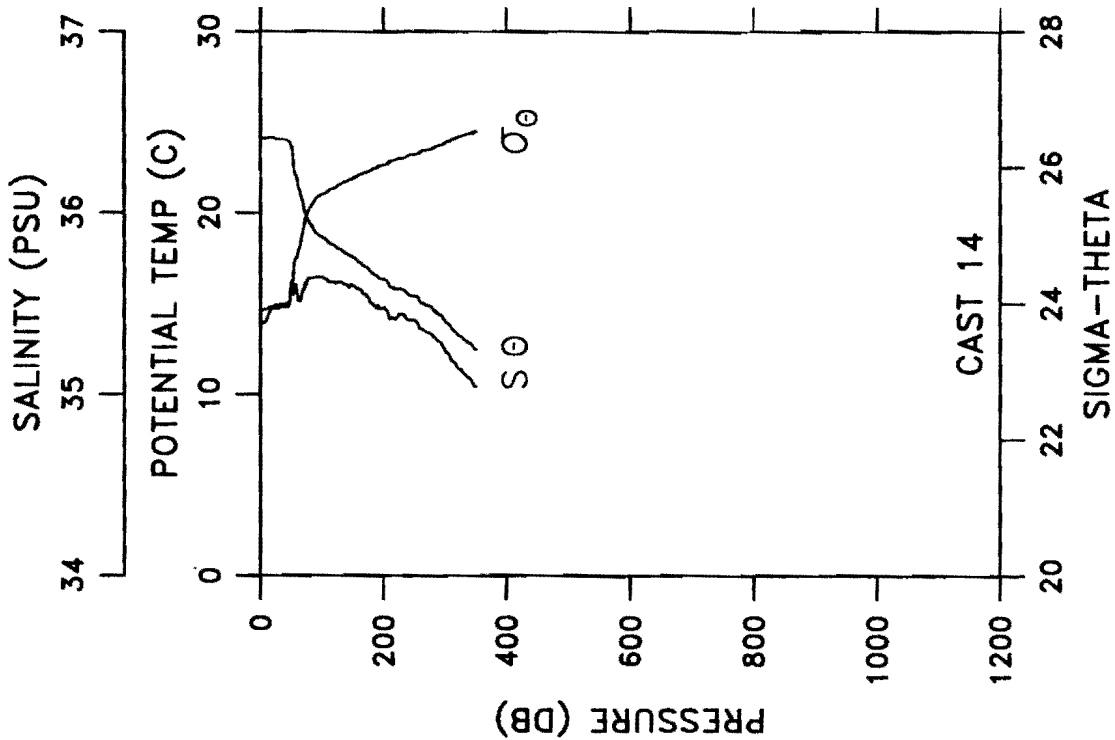


CAST CG1-90-MB -013 DATE 27 FEB 90 TIME 1837 GMT
 LAT 25 01.3S LONG 170 00.9W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 025 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 23.9 WET 23.1 DEPTH 5712 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.635	35.332	23.704	0.000
10	24.647	35.343	23.709	0.042
20	24.643	35.343	23.711	0.084
30	24.631	35.344	23.715	0.126
40	24.548	35.347	23.742	0.167
50	24.497	35.351	23.760	0.209
60	23.248	35.340	24.121	0.249
70	21.911	35.483	24.611	0.285
80	21.042	35.568	24.916	0.317
90	20.658	35.590	25.037	0.347
100	20.187	35.605	25.175	0.376
110	19.904	35.631	25.270	0.403
120	19.628	35.639	25.349	0.430
130	19.513	35.642	25.360	0.457
140	19.298	35.638	25.433	0.483
150	18.996	35.632	25.507	0.509
160	18.737	35.625	25.567	0.534
170	18.524	35.621	25.618	0.558
180	18.172	35.587	25.680	0.582
190	17.957	35.579	25.727	0.605
200	17.606	35.548	25.790	0.628
250	16.449	35.473	26.009	0.737
300	15.371	35.378	26.182	0.837
350	13.983	35.214	26.356	0.929
400	12.069	34.957	26.543	1.013
450	10.657	34.795	26.678	1.089
500	9.395	34.648	26.779	1.159
550	8.285	34.538	26.868	1.225
600	7.366	34.449	26.934	1.287
650	6.945	34.418	26.968	1.347
700	6.510	34.381	26.997	1.406
750	6.045	34.348	27.032	1.463
800	5.736	34.345	27.069	1.518
900	5.045	34.338	27.146	1.624
1000	4.437	34.373	27.241	1.721
1500	2.563	34.584	27.576	2.080
2000	2.085	34.834	27.673	2.365
2500	1.769	34.656	27.714	2.615
3000	1.520	34.673	27.746	2.854
3500	1.301	34.701	27.784	3.082
4000	1.006	34.722	27.821	3.289
4500	0.727	34.715	27.834	3.480
5000	0.618	34.711	27.838	3.668
5053	0.616	34.711	27.837	3.888

CAST CG1-90-MB -014 DATE 28 FEB 90 TIME 0727 GMT
LAT 27 30.2S LONG 170 00.3W

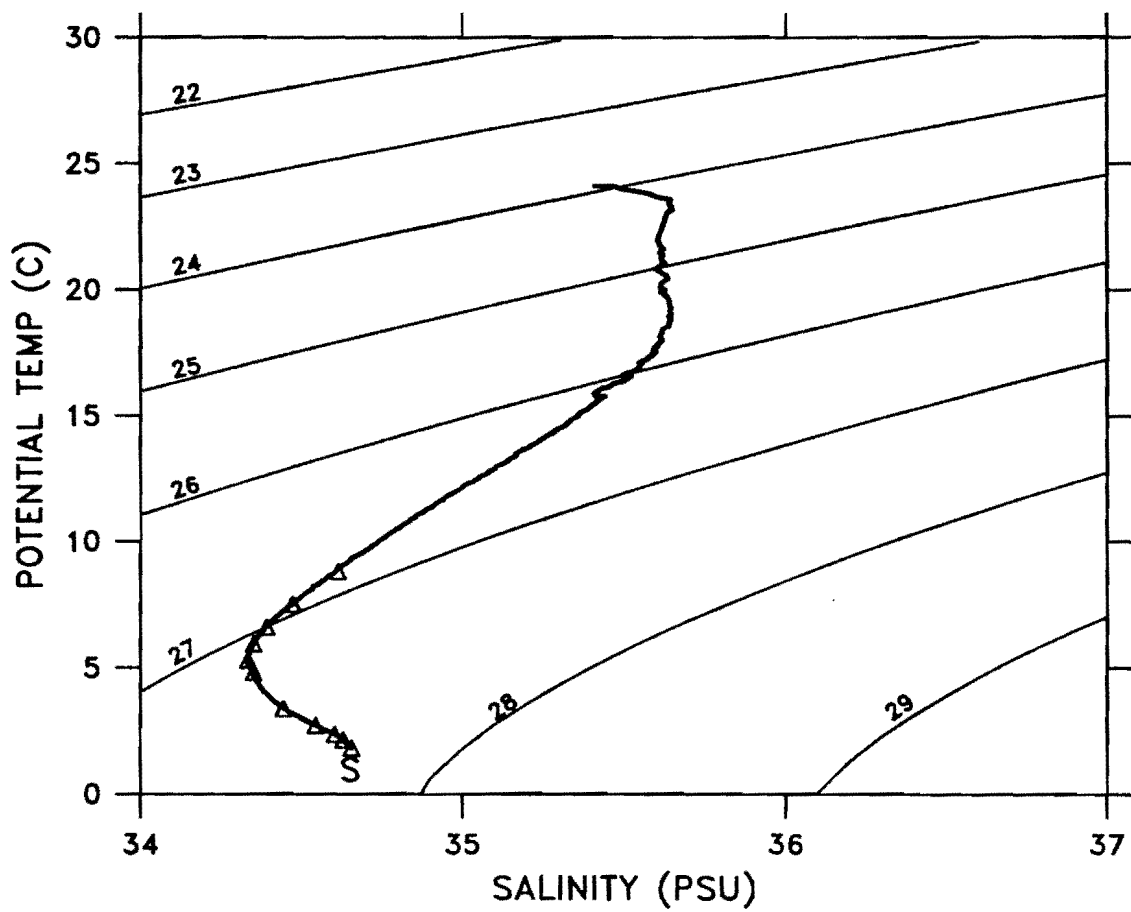




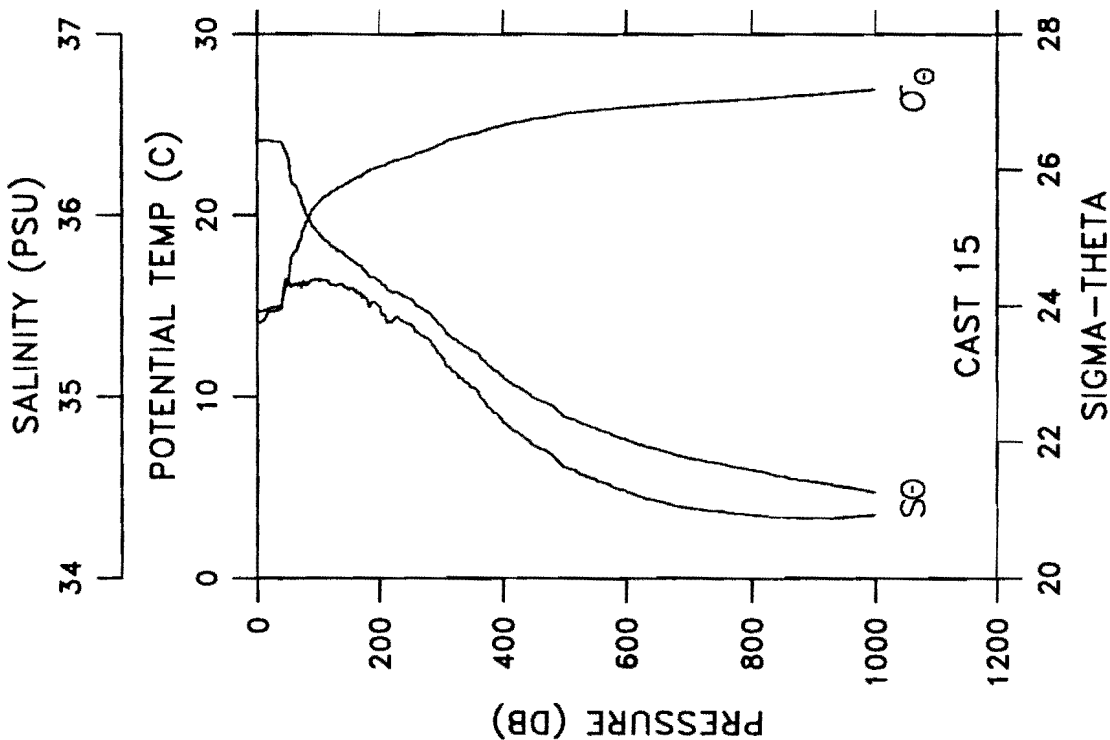
CAST CG1-90-MB -014 DATE 28 FEB 90 TIME 0727 GMT
 LAT 27 30.2S LONG 170 00.3W WEATHER 1 SEA STATE 3
 BAROMETER 18 WIND DIR 116 T SPD 14 KT VISIBILITY 7
 CLOUD 4 AMOUNT 3 DRY 22.2 WET 21.1 DEPTH 5223 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.103	35.389	23.907	0.000
10	24.122	35.412	23.919	0.040
20	24.154	35.478	23.959	0.080
30	24.069	35.475	23.982	0.119
40	24.056	35.481	23.991	0.158
50	23.726	35.613	24.188	0.197
60	21.830	35.552	24.687	0.232
70	20.460	35.577	25.081	0.263
80	19.454	35.642	25.396	0.290
90	18.927	35.644	25.534	0.316
100	18.845	35.644	25.605	0.340
110	18.364	35.619	25.652	0.364
120	18.245	35.622	25.689	0.387
130	17.980	35.620	25.751	0.410
140	17.752	35.603	25.796	0.433
150	17.566	35.603	25.842	0.455
160	17.277	35.579	25.893	0.477
170	17.042	35.551	25.928	0.499
180	16.742	35.505	25.964	0.520
190	16.494	35.477	26.001	0.540
200	16.339	35.474	26.035	0.561
250	15.426	35.408	26.192	0.659
300	14.120	35.253	26.358	0.750
350	12.461	35.043	26.533	0.833
352	12.445	35.043	26.537	0.837

CAST CG1-90-MB -015 DATE 28 FEB 90 TIME 0952 GMT
LAT 27 30.8S LONG 170 00.9W

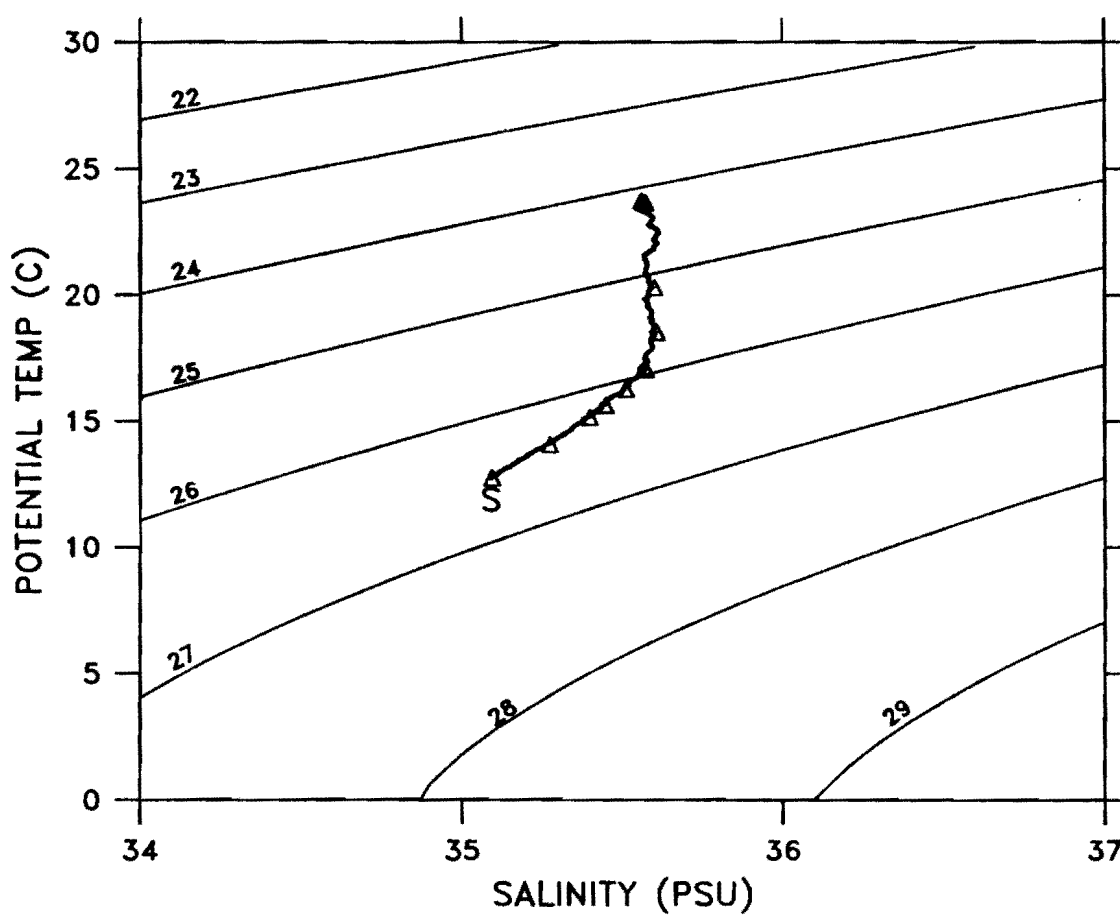


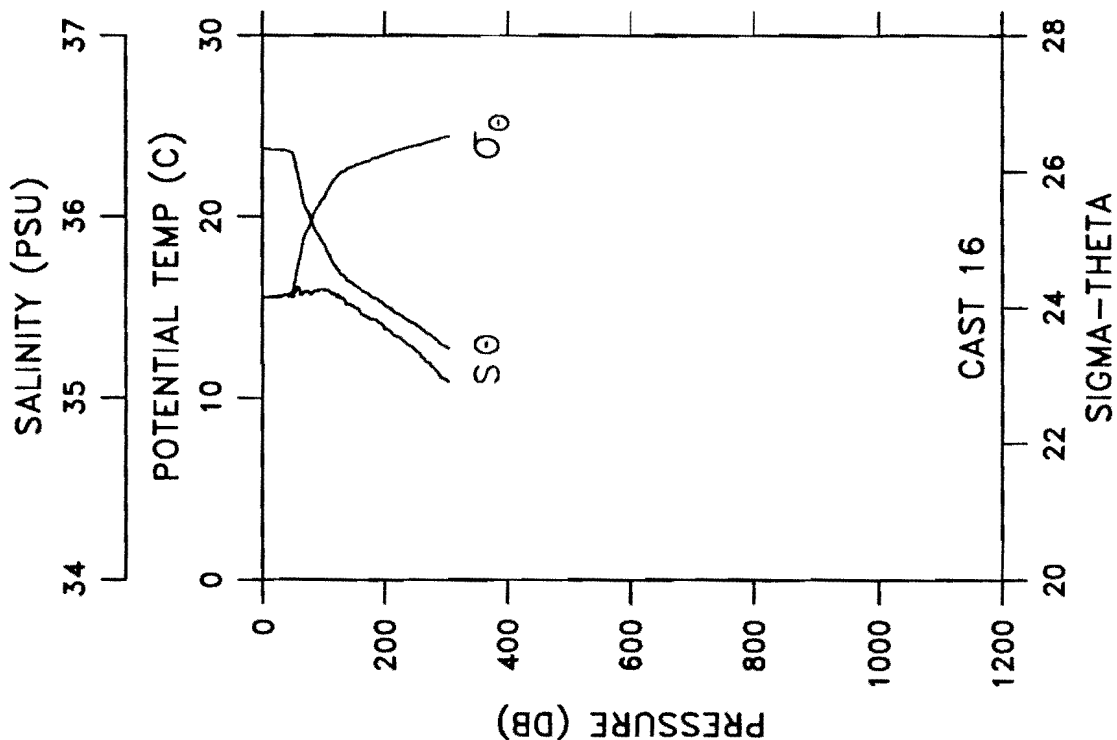
CST CG1-90-MB -015 DATE 28 FEB 90 TIME 0952 GMT
 LAT 27 30.8S LONG 170 00.9W WEATHER 1 SEA STATE 2
 BAROMETER 19 WIND DIR 114 T SPD 10 KT VISIBILITY 7
 CLOUD 5 AMOUNT 3 DRY 22.0 WET 21.7 DEPTH 5316 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.107	35.408	23.920	0.000
10	24.121	35.420	23.925	0.040
20	24.114	35.468	23.963	0.079
30	24.058	35.472	23.984	0.119
40	23.974	35.496	24.026	0.158
50	23.152	35.650	24.384	0.195
60	21.633	35.620	24.793	0.228
70	21.038	35.622	24.959	0.259
80	19.997	35.630	25.244	0.287
90	19.335	35.641	25.426	0.314
100	18.989	35.642	25.516	0.339
110	18.619	35.639	25.608	0.364
120	18.298	35.614	25.670	0.388
130	18.054	35.615	25.731	0.411
140	17.914	35.613	25.764	0.434
150	17.625	35.592	25.819	0.457
160	17.392	35.592	25.875	0.478
170	17.191	35.561	25.900	0.500
180	16.761	35.526	25.976	0.521
190	16.570	35.522	26.018	0.542
200	16.367	35.496	26.046	0.562
250	15.413	35.401	26.190	0.660
300	13.948	35.231	26.377	0.751
350	12.515	35.051	26.530	0.833
400	11.087	34.860	26.651	0.910
450	9.929	34.730	26.753	0.981
500	8.901	34.613	26.831	1.049
550	8.286	34.548	26.876	1.114
600	7.638	34.480	26.919	1.176
650	7.097	34.427	26.954	1.237
700	6.609	34.387	26.989	1.296
750	6.308	34.368	27.014	1.354
800	5.971	34.351	27.044	1.411
900	5.320	34.334	27.110	1.519
1000	4.741	34.349	27.189	1.622
1500	2.682	34.549	27.554	2.009
2000	2.128	34.629	27.664	2.292
2498	1.824	34.654	27.708	2.548

CAST CG1-90-MB -016 DATE 28 FEB 90 TIME 2215 GMT
LAT 30 00.3S LONG 170 00.8W

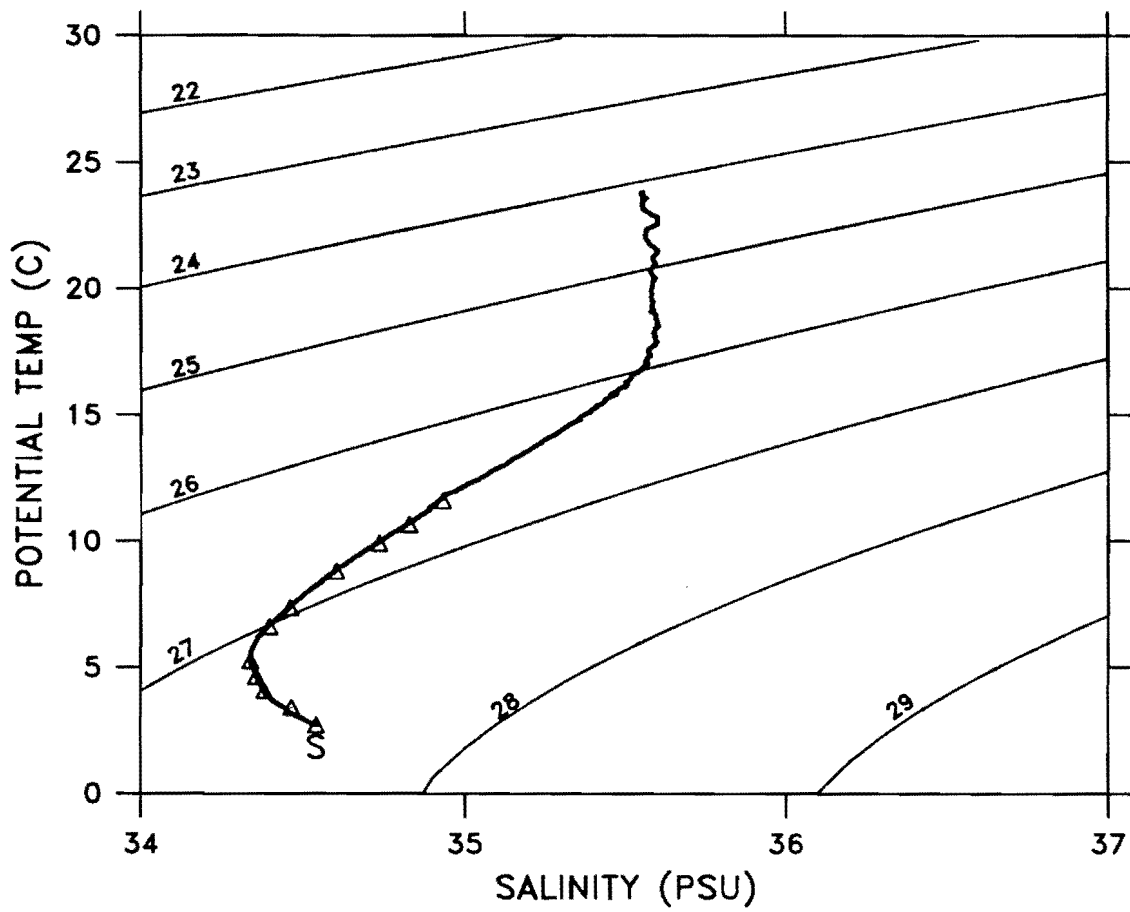


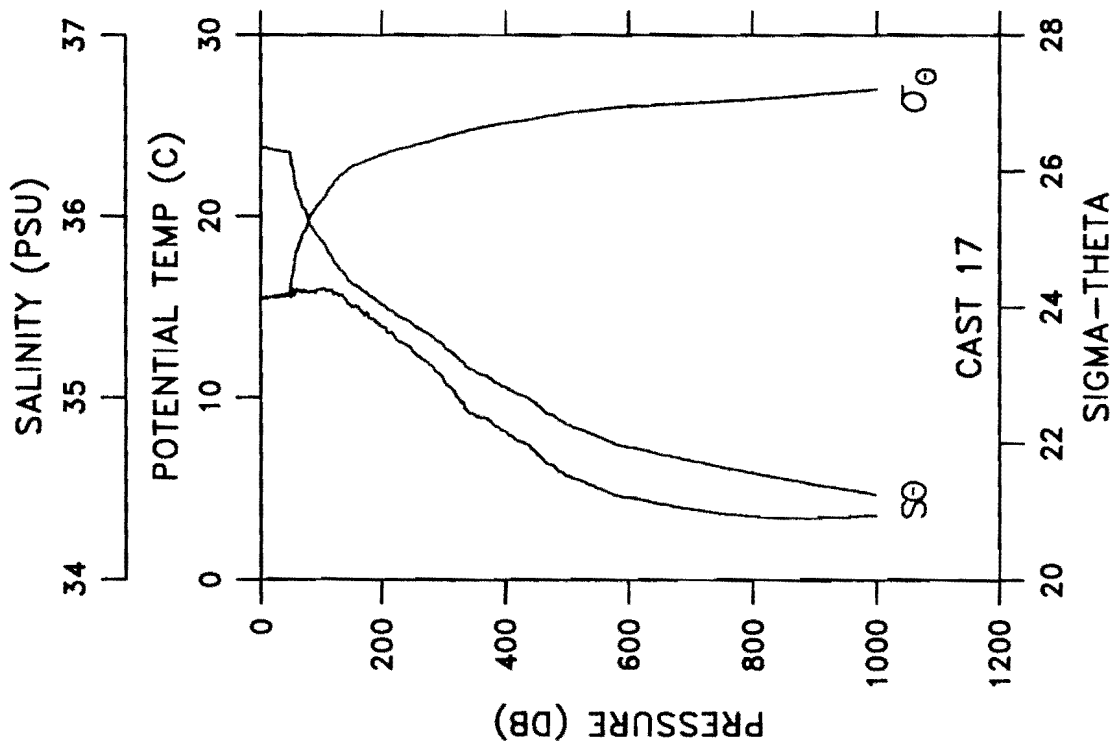


CAST 001-90-MB -016 DATE 28 FEB 90 TIME 2215 GMT
 LAT 30 00.3S LONG 170 00.8W WEATHER 1 SEA STATE 3
 BAROMETER 21 WIND DIR 085 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 24.3 WET 23.1 DEPTH 5417 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.741	35.554	24.139	0.000
10	23.707	35.553	24.148	0.038
20	23.679	35.555	24.158	0.075
30	23.659	35.557	24.165	0.113
40	23.623	35.565	24.182	0.150
50	23.394	35.552	24.239	0.188
60	21.937	35.597	24.691	0.222
70	20.473	35.583	25.082	0.253
80	19.773	35.575	25.262	0.281
90	19.029	35.593	25.468	0.307
100	18.526	35.589	25.593	0.332
110	17.789	35.586	25.774	0.355
120	17.197	35.561	25.899	0.377
130	16.781	35.550	25.989	0.398
140	16.436	35.519	26.047	0.418
150	16.255	35.501	26.075	0.438
160	16.015	35.472	26.108	0.458
170	15.803	35.452	26.141	0.477
180	15.526	35.433	26.190	0.496
190	15.397	35.413	26.203	0.515
200	15.149	35.386	26.238	0.533
250	14.092	35.268	26.376	0.622
300	12.837	35.101	26.505	0.705
304	12.739	35.089	26.515	0.711

CAST CG1-90-MB -017 DATE 01 MAR 90 TIME 0016 GMT
LAT 30 01.1S LONG 170 01.5W

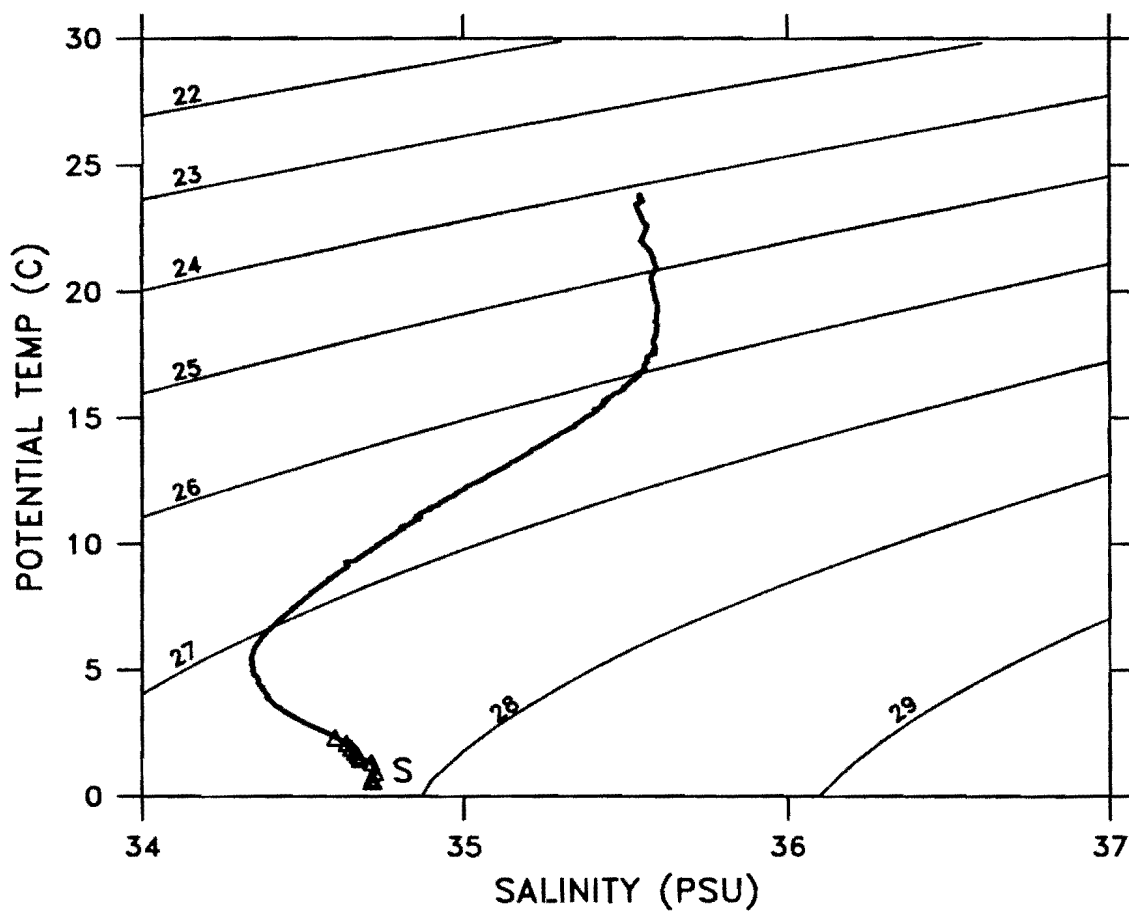




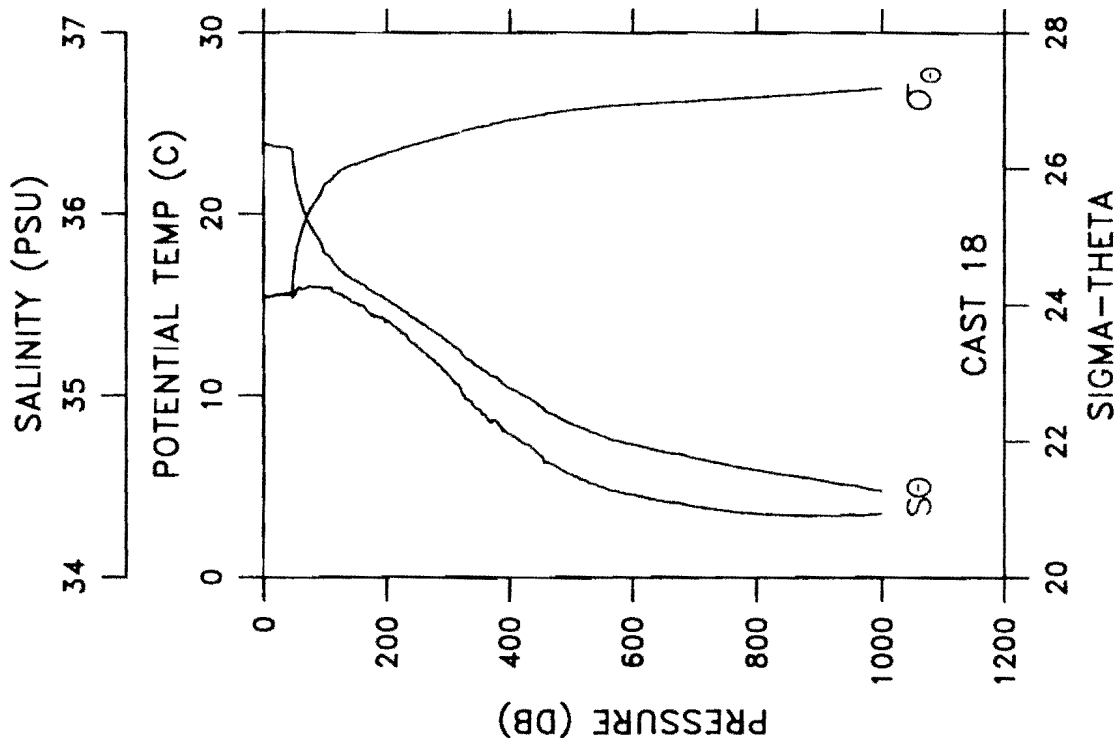
CAST CG1-90-MB -017 DATE 01 MAR 90 TIME 0016 GMT
 LAT 30 01.15 LONG 170 01.5W WEATHER 1 SEA STATE 2
 BAROMETER 20 WIND DIR 067 T SPD 18 KT VISIBILITY 8
 CLOUD 9 AMOUNT 7 DRY 23.5 WET 22.0 DEPTH 5415 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.798	35.551	24.120	0.000
10	23.811	35.556	24.120	0.038
20	23.691	35.555	24.154	0.076
30	23.624	35.554	24.174	0.113
40	23.589	35.559	24.188	0.151
50	22.898	35.585	24.409	0.188
60	21.400	35.598	24.841	0.221
70	20.420	35.594	25.104	0.251
80	19.539	35.582	25.328	0.279
90	19.093	35.577	25.439	0.305
100	18.674	35.601	25.565	0.330
110	18.065	35.590	25.709	0.354
120	17.555	35.570	25.819	0.376
130	17.066	35.565	25.933	0.398
140	16.756	35.546	25.992	0.419
150	16.335	35.507	26.061	0.439
160	16.162	35.503	26.098	0.459
170	15.906	35.471	26.133	0.478
180	15.629	35.440	26.171	0.497
190	15.416	35.424	26.208	0.516
200	15.134	35.392	26.245	0.535
250	14.081	35.259	26.371	0.623
300	12.868	35.098	26.496	0.707
350	11.465	34.908	26.619	0.784
400	10.595	34.816	26.705	0.857
450	9.705	34.704	26.771	0.927
500	8.523	34.570	26.857	0.993
550	7.864	34.503	26.904	1.056
600	7.276	34.451	26.948	1.117
650	6.885	34.416	26.975	1.176
700	6.551	34.389	26.999	1.235
750	6.182	34.364	27.027	1.292
800	5.878	34.351	27.055	1.348
900	5.223	34.339	27.126	1.456
1000	4.679	34.355	27.200	1.557
1500	2.718	34.536	27.540	1.949
1512	2.691	34.540	27.546	1.956

CAST CG1-90-MB -018 DATE 01 MAR 90 TIME 0441 GMT
LAT 30 00.3S LONG 170 02.6W

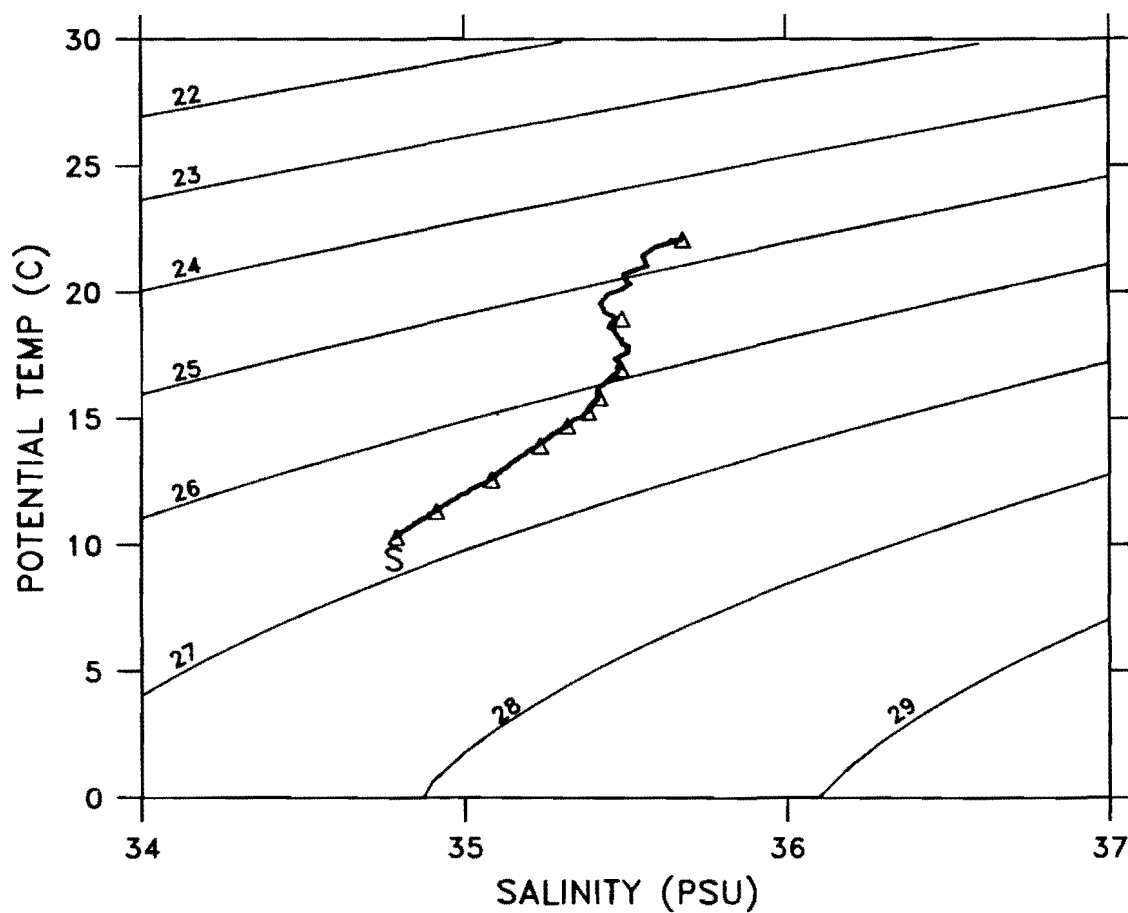


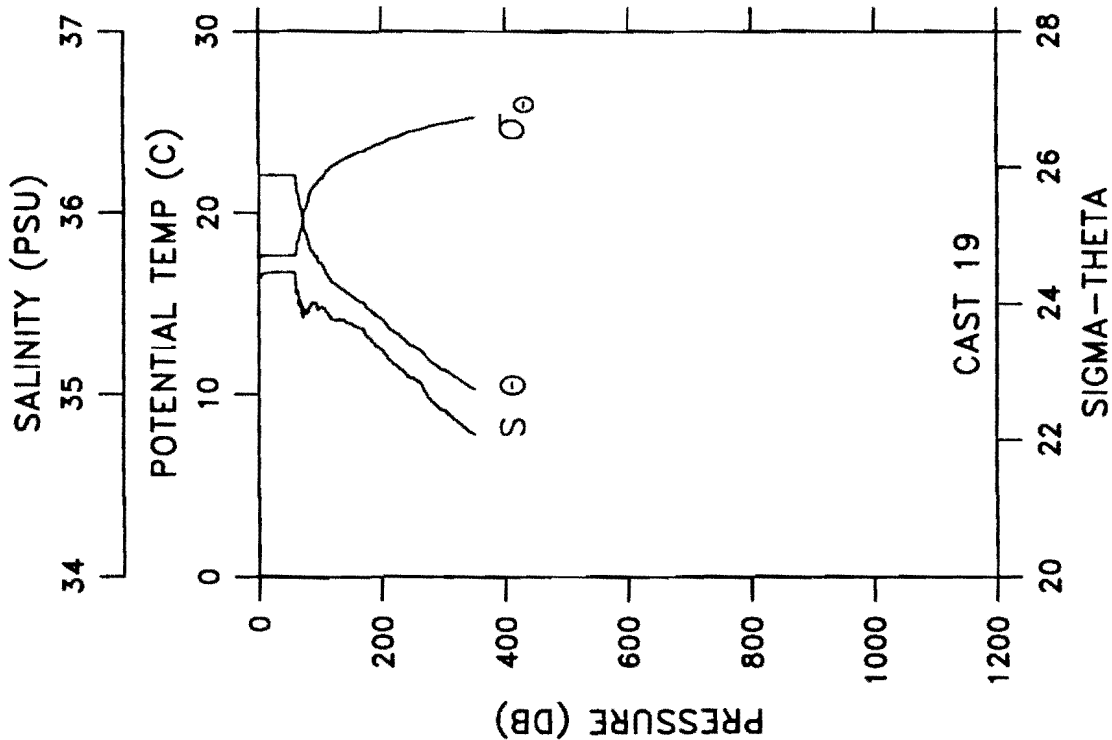
CAST CG1-90-MB -018 DATE 01 MAR 90 TIME 0441 GMT
 LAT 30 00.3S LONG 170 02.6W WEATHER 1 SEA STATE 3
 BAROMETER 20 WIND DIR 060 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 3 DRY 23.5 WET 22.2 DEPTH 5429 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.839	35.548	24.106	0.000
10	23.820	35.547	24.110	0.038
20	23.703	35.552	24.149	0.076
30	23.677	35.551	24.156	0.113
40	23.638	35.554	24.170	0.151
50	22.005	35.551	24.637	0.187
60	20.585	35.583	25.052	0.218
70	19.614	35.598	25.321	0.246
80	18.956	35.598	25.491	0.272
90	18.476	35.599	25.613	0.297
100	17.758	35.592	25.786	0.320
110	17.438	35.572	25.849	0.342
120	16.997	35.562	25.947	0.363
130	16.679	35.545	26.010	0.384
140	16.465	35.521	26.042	0.404
150	16.313	35.510	26.069	0.424
160	16.118	35.496	26.103	0.444
170	15.851	35.458	26.135	0.463
180	15.643	35.440	26.168	0.482
190	15.518	35.434	26.192	0.501
200	15.291	35.414	26.227	0.520
250	14.151	35.267	26.362	0.609
300	12.949	35.112	26.491	0.693
350	11.550	34.923	26.615	0.771
400	10.395	34.788	26.719	0.844
450	9.419	34.671	26.793	0.913
500	8.484	34.569	26.862	0.978
550	7.774	34.497	26.913	1.041
600	7.316	34.455	26.945	1.102
650	6.901	34.415	26.972	1.161
700	6.554	34.389	26.998	1.220
750	6.204	34.366	27.026	1.277
800	5.895	34.348	27.051	1.333
900	5.348	34.341	27.112	1.442
1000	4.764	34.352	27.188	1.544
1500	2.727	34.533	27.537	1.943
2000	2.113	34.630	27.666	2.228
2500	1.803	34.655	27.710	2.482
3000	1.562	34.674	27.744	2.724
3500	1.315	34.713	27.793	2.951
4000	0.933	34.722	27.826	3.155
4500	0.692	34.715	27.836	3.343
5000	0.601	34.711	27.839	3.528
5178	0.593	34.711	27.839	3.595

CAST CG1-90-MB -019 DATE 01 MAR 90 TIME 1825 GMT
LAT 32 31.0S LONG 169 59.9W

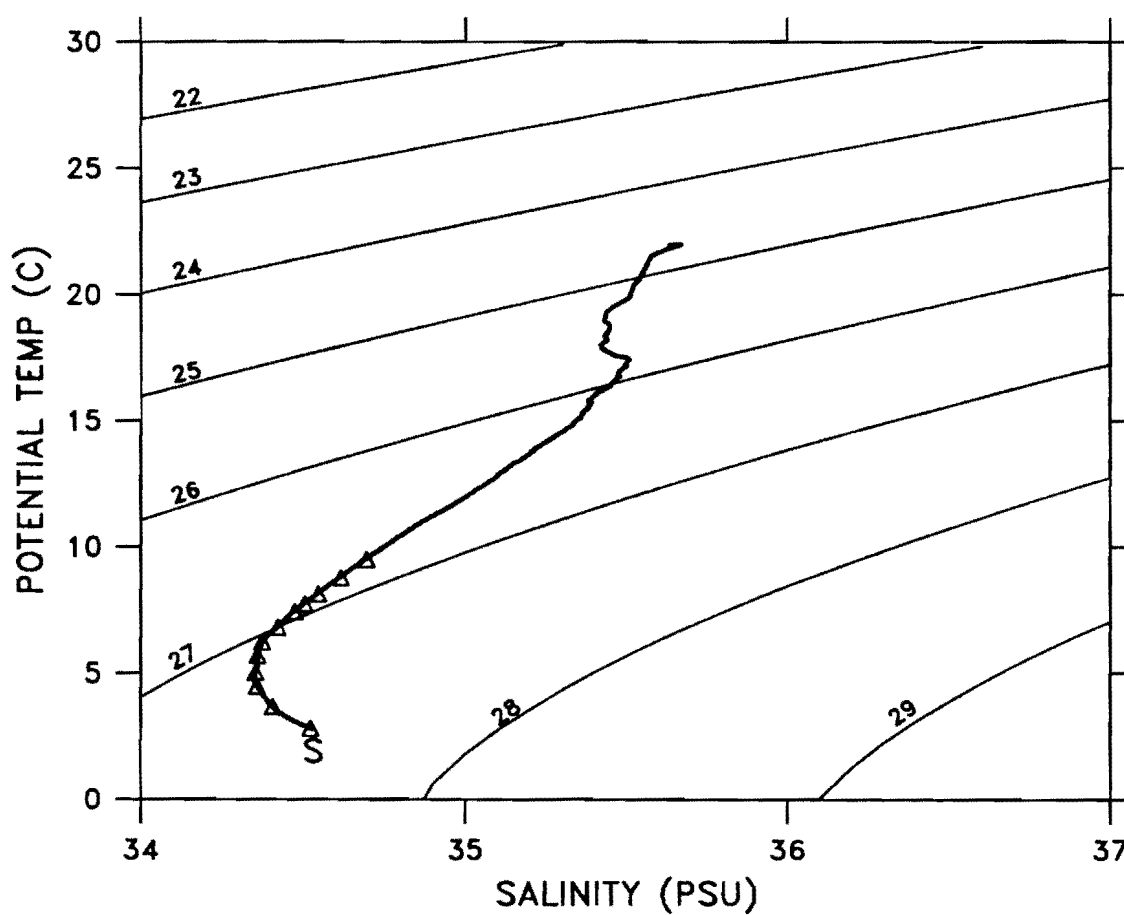


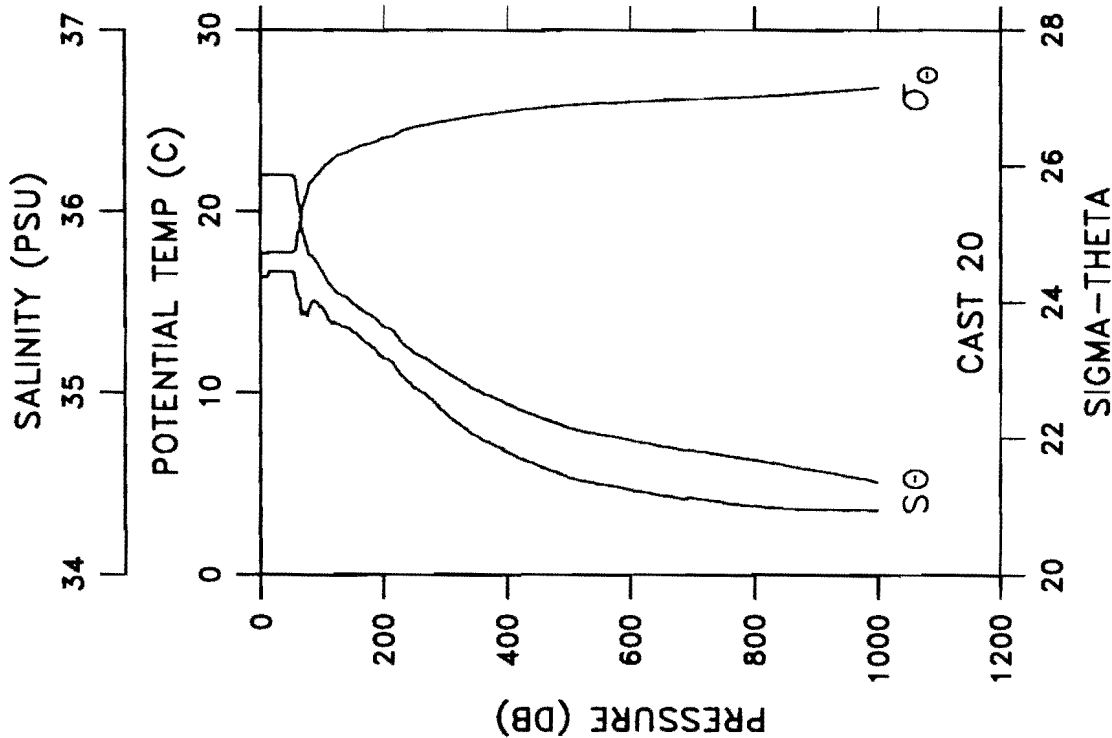


CAST CG1-90-MB -019 DATE 01 MAR 90 TIME 1825 GMT
 LAT 32 31.0S LONG 169 59.9W WEATHER 2 SEA STATE 4
 BAROMETER 19 WIND DIR 045 T SPD 22 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 25.0 WET 20.0 DEPTH 5588 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.068	35.640	24.687	0.000
10	22.079	35.668	24.705	0.032
20	22.083	35.672	24.706	0.065
30	22.081	35.673	24.708	0.097
40	22.081	35.673	24.708	0.130
50	22.079	35.673	24.709	0.162
60	21.808	35.595	24.725	0.194
70	19.940	35.447	25.120	0.224
80	18.508	35.462	25.501	0.251
90	17.691	35.506	25.737	0.274
100	17.236	35.480	25.828	0.297
110	16.632	35.454	25.951	0.318
120	16.169	35.414	26.028	0.339
130	15.935	35.412	26.080	0.358
140	15.722	35.406	26.125	0.378
150	15.472	35.393	26.171	0.397
160	15.230	35.374	26.211	0.416
170	15.097	35.363	26.232	0.434
180	14.706	35.315	26.280	0.452
190	14.367	35.264	26.314	0.470
200	14.157	35.246	26.345	0.487
250	12.686	35.091	26.527	0.569
300	11.360	34.916	26.645	0.645
350	10.306	34.783	26.730	0.717
351	10.295	34.780	26.730	0.718

CAST CG1-90-MB -020 DATE 01 MAR 90 TIME 2032 GMT
LAT 32 34.2S LONG 169 59.9W

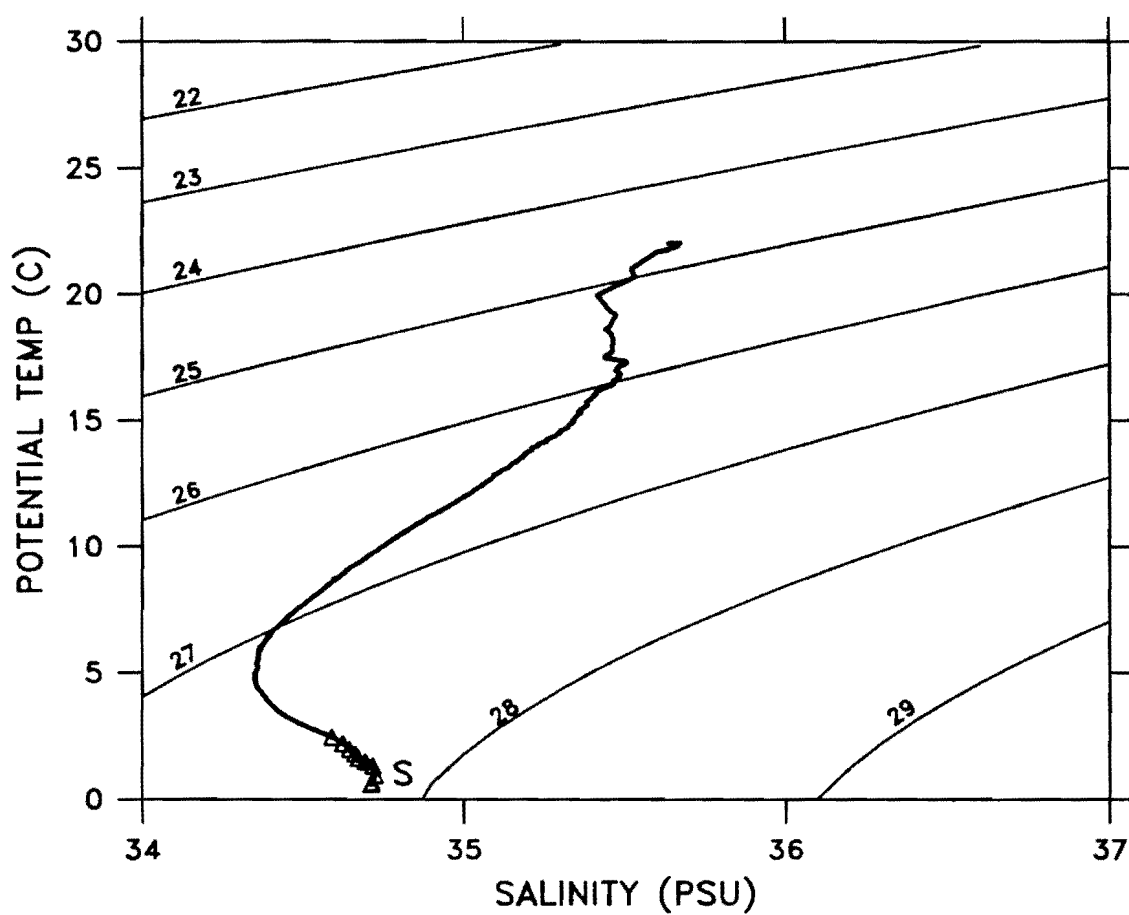




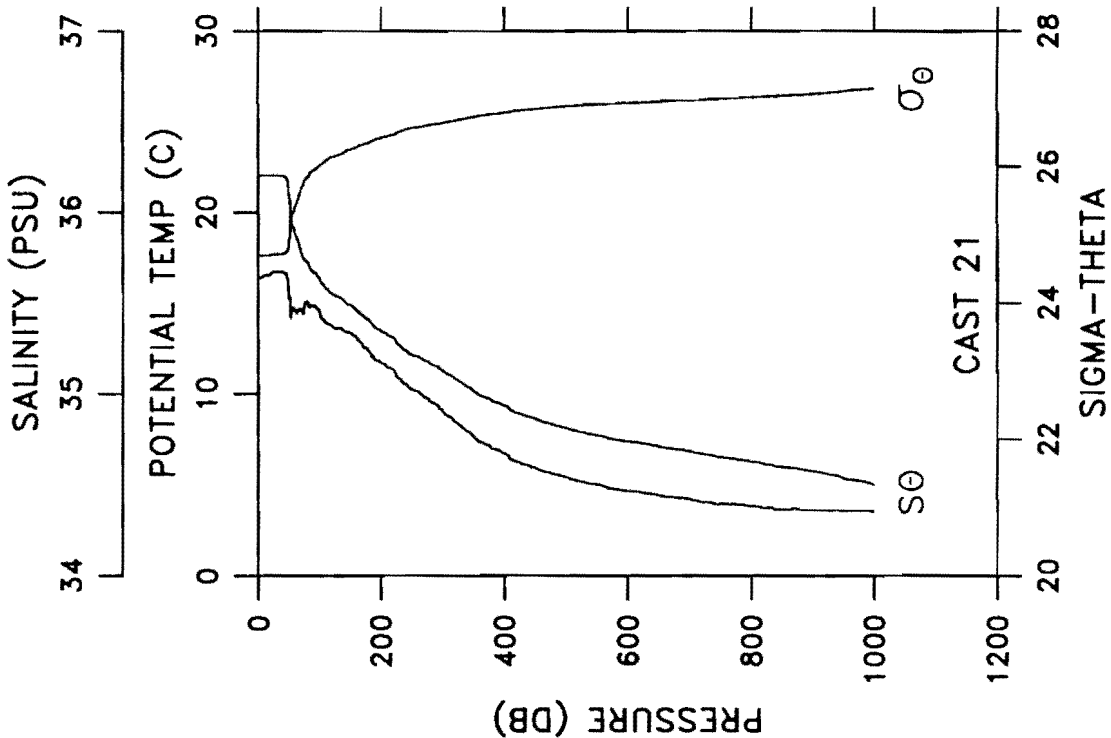
CAST CG1-90-MB -020 DATE 01 MAR 90 TIME 2032 GMT
 LAT 32 34.2S LONG 169 59.9W WEATHER 7 SEA STATE 4
 BAROMETER 19 WIND DIR 088 T SPD 24 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 21.1 WET 21.1 DEPTH 5577 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.969	35.635	24.710	0.000
10	21.971	35.634	24.710	0.032
20	21.991	35.668	24.730	0.064
30	21.991	35.669	24.730	0.097
40	21.991	35.669	24.730	0.129
50	21.985	35.668	24.731	0.161
60	20.538	35.537	25.029	0.193
70	18.615	35.446	25.461	0.220
80	17.553	35.470	25.743	0.244
90	17.210	35.495	25.845	0.266
100	16.654	35.467	25.956	0.288
110	16.060	35.405	26.046	0.308
120	15.634	35.384	26.127	0.327
130	15.400	35.368	26.168	0.346
140	15.245	35.361	26.197	0.365
150	14.911	35.333	26.249	0.383
160	14.673	35.307	26.281	0.401
170	14.428	35.277	26.311	0.419
180	14.259	35.258	26.332	0.436
190	13.983	35.224	26.364	0.454
200	13.651	35.192	26.409	0.470
250	12.188	35.025	26.573	0.550
300	11.202	34.893	26.656	0.625
350	10.164	34.765	26.741	0.695
400	9.361	34.672	26.803	0.763
450	8.689	34.600	26.854	0.828
500	8.072	34.533	26.896	0.891
550	7.698	34.497	26.924	0.952
600	7.403	34.467	26.943	1.013
650	7.059	34.435	26.966	1.073
700	6.826	34.421	26.987	1.132
750	6.553	34.395	27.003	1.190
800	6.298	34.378	27.023	1.248
900	5.710	34.356	27.081	1.360
1000	5.061	34.353	27.155	1.466
1500	2.825	34.517	27.515	1.886
1523	2.780	34.526	27.527	1.901

CAST CG1-90-MB -021 DATE 02 MAR 90 TIME 0030 GMT
LAT 32 33.2S LONG 170 03.1W

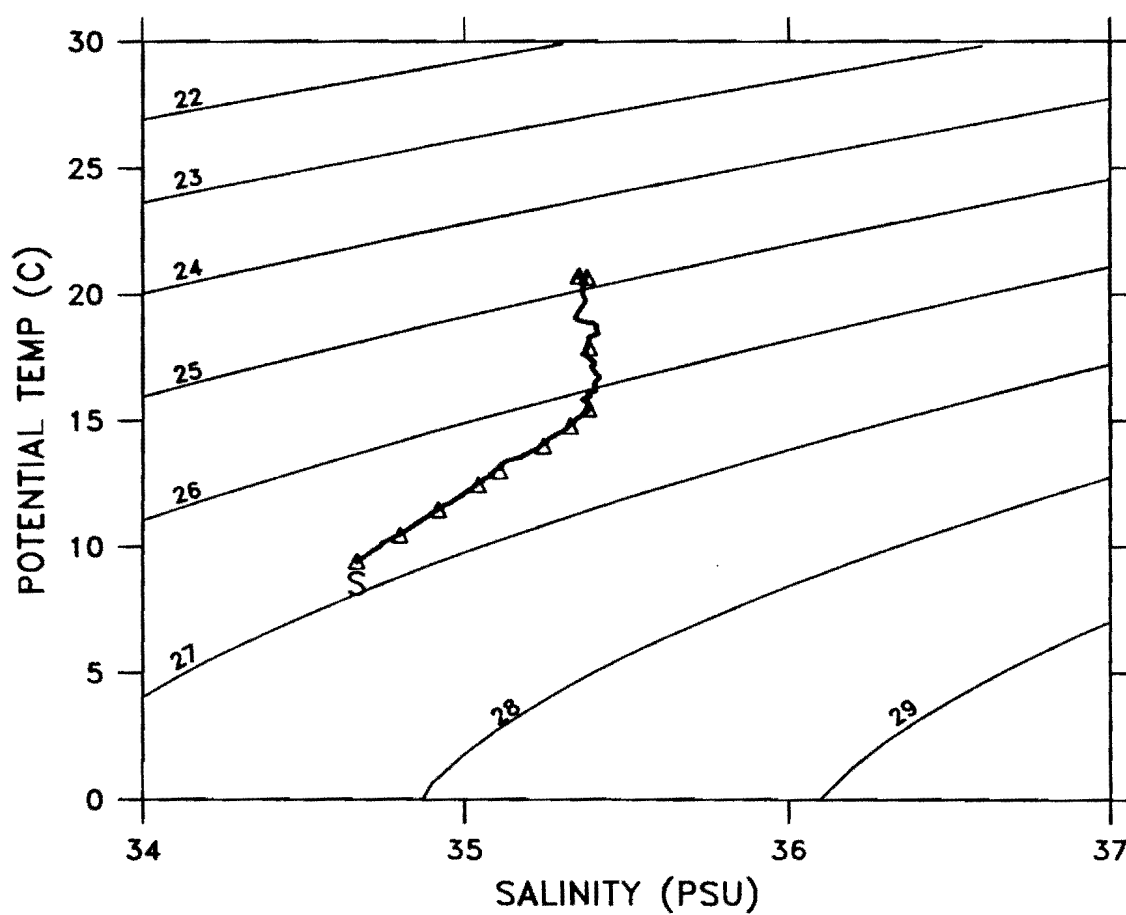


CAST CG1-90-MB -021 DATE 02 MAR 90 TIME 0030 GMT
 LAT 32 33.2S LONG 170 03.1W WEATHER 6 SEA STATE 2
 BAROMETER 16 WIND DIR 063 T SPD 20 KT VISIBILITY 7
 CLOUD 5 AMOUNT 8 DRY 21.5 WET 22.0 DEPTH 5568 M

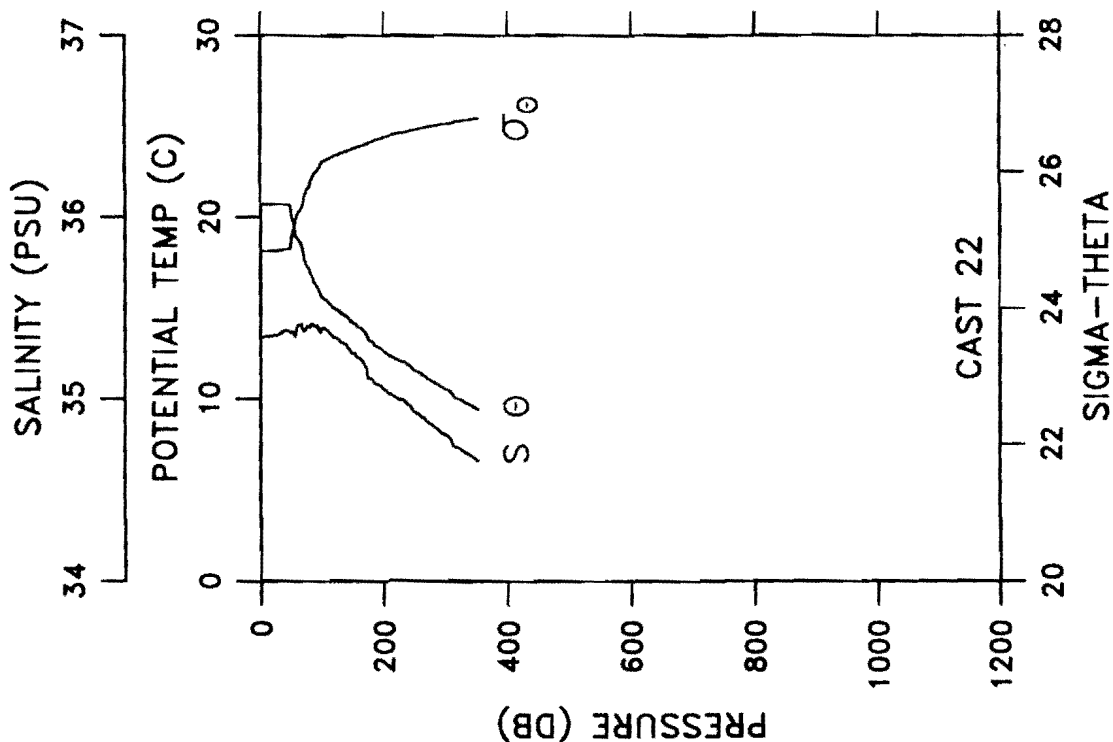


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.026	35.640	24.698	0.000
10	22.033	35.653	24.706	0.032
20	22.036	35.661	24.711	0.065
30	22.042	35.673	24.719	0.097
40	21.990	35.670	24.732	0.129
50	21.018	35.524	24.889	0.161
60	18.872	35.461	25.408	0.189
70	17.854	35.465	25.665	0.214
80	17.289	35.508	25.836	0.236
90	16.742	35.482	25.946	0.258
100	16.402	35.460	26.010	0.278
110	15.861	35.395	26.085	0.298
120	15.547	35.378	26.142	0.317
130	15.354	35.359	26.171	0.336
140	15.162	35.349	26.206	0.355
150	14.907	35.338	26.254	0.373
160	14.674	35.315	26.287	0.391
170	14.342	35.272	26.326	0.408
180	14.085	35.232	26.349	0.426
190	13.705	35.189	26.395	0.443
200	13.491	35.171	26.426	0.459
250	12.159	35.024	26.578	0.539
300	11.289	34.906	26.650	0.613
350	10.172	34.765	26.739	0.684
400	9.365	34.672	26.803	0.751
450	8.642	34.593	26.856	0.816
500	8.117	34.541	26.896	0.879
550	7.717	34.501	26.924	0.940
600	7.365	34.465	26.947	1.001
650	7.098	34.442	26.966	1.060
700	6.826	34.421	26.987	1.119
750	6.500	34.395	27.010	1.178
800	6.249	34.381	27.032	1.235
900	5.736	34.362	27.081	1.347
1000	4.991	34.352	27.162	1.452
1500	2.845	34.514	27.511	1.866
2000	2.221	34.619	27.649	2.163
2500	1.852	34.651	27.704	2.424
3000	1.587	34.675	27.743	2.669
3500	1.338	34.712	27.791	2.897
4000	0.951	34.722	27.825	3.102
4500	0.664	34.713	27.836	3.289
5000	0.595	34.710	27.838	3.474
5298	0.582	34.709	27.838	3.586

CAST CG1-90-MB -022 DATE 02 MAR 90 TIME 1514 GMT
LAT 35 02.0S LONG 170 03.3W

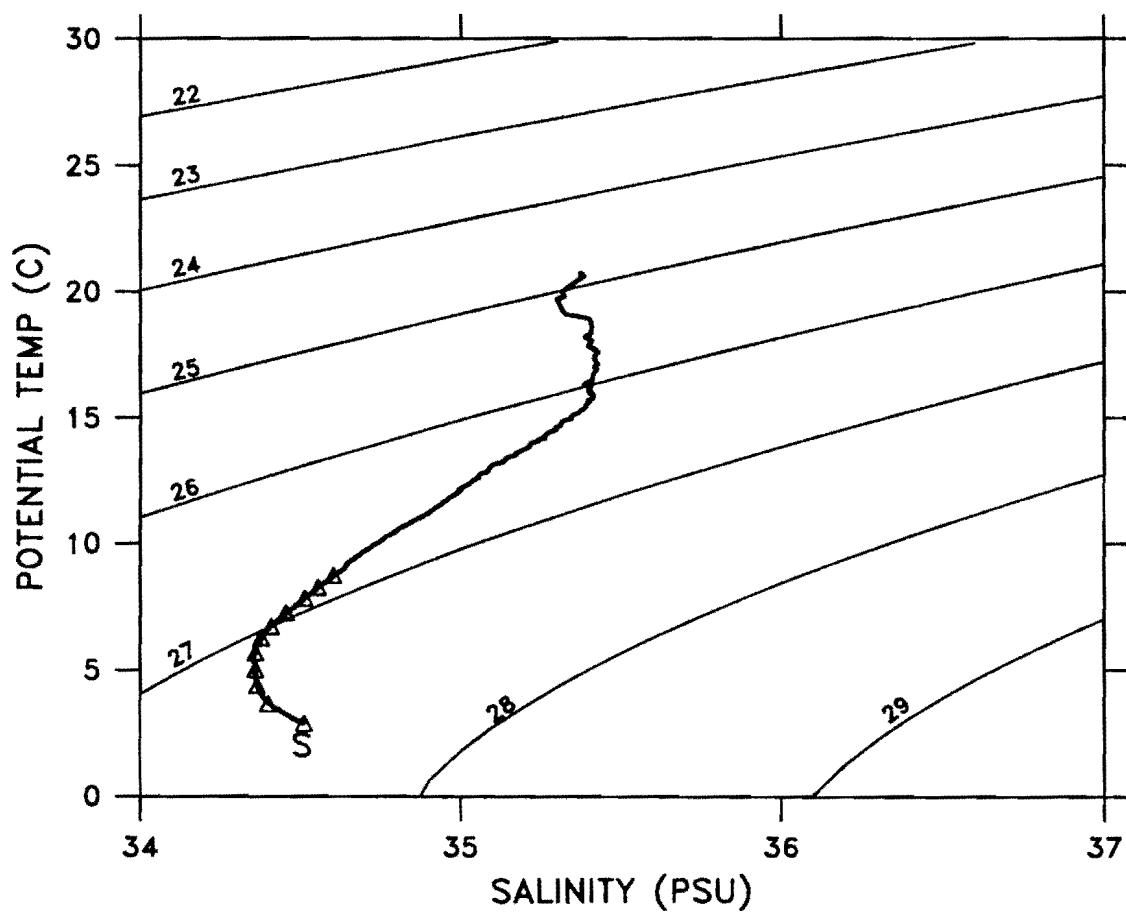


CAST CG1-90-MB -022 DATE 02 MAR 90 TIME 1514 GMT
 LAT 35 02.0S LONG 170 03.3W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 015 T SPD 18 KT VISIBILITY 8
 CLOUD 7 AMOUNT 8 DRY 21.0 WET 20.5 DEPTH 5172 M

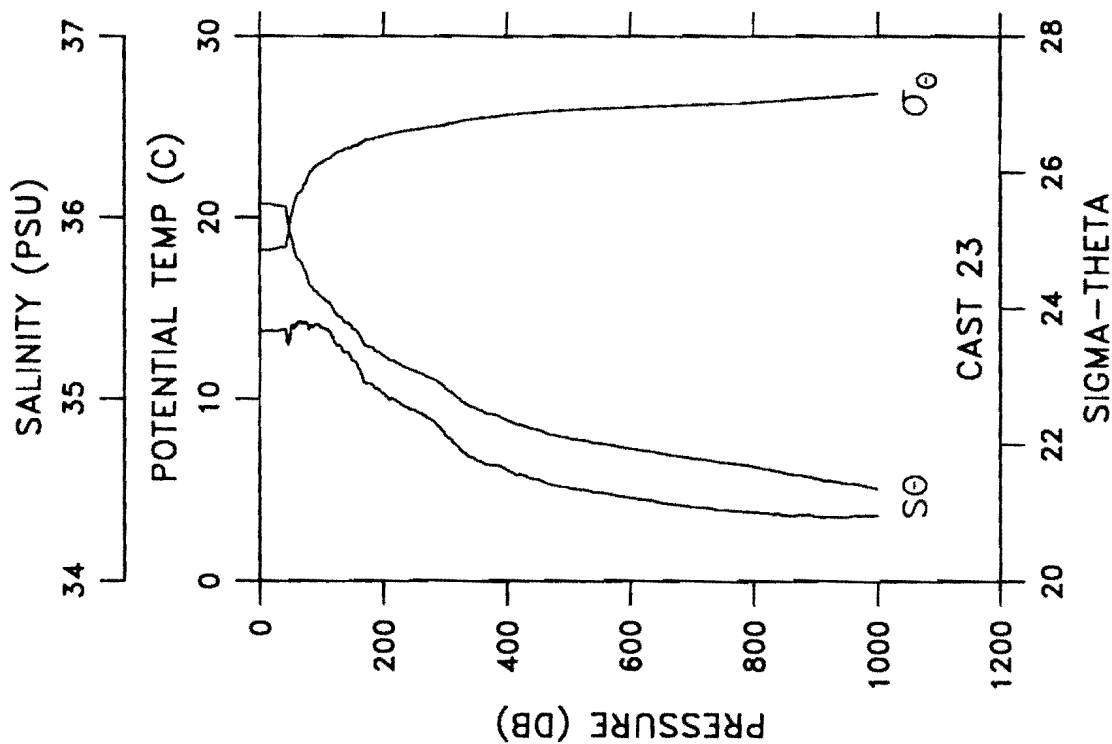


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.705	35.341	24.835	0.000
10	20.700	35.346	24.840	0.031
20	20.702	35.348	24.841	0.062
30	20.711	35.358	24.846	0.093
40	20.699	35.376	24.863	0.124
50	20.164	35.365	24.998	0.155
60	18.812	35.403	25.378	0.183
70	17.977	35.380	25.570	0.208
80	17.051	35.396	25.807	0.231
90	16.286	35.401	25.991	0.252
100	15.621	35.380	26.128	0.272
110	15.340	35.374	26.186	0.291
120	14.990	35.337	26.235	0.309
130	14.714	35.313	26.276	0.327
140	14.561	35.299	26.299	0.345
150	14.200	35.254	26.341	0.362
160	13.945	35.228	26.375	0.379
170	13.655	35.180	26.399	0.396
180	13.188	35.112	26.442	0.412
190	12.882	35.079	26.479	0.429
200	12.651	35.055	26.506	0.444
250	11.559	34.929	26.617	0.521
300	10.536	34.803	26.706	0.593
350	9.469	34.667	26.781	0.661
353	9.399	34.660	26.788	0.665

CAST CG1-90-MB -023 DATE 02 MAR 90 TIME 1719 GMT
LAT 35 02.0S LONG 170 03.4W

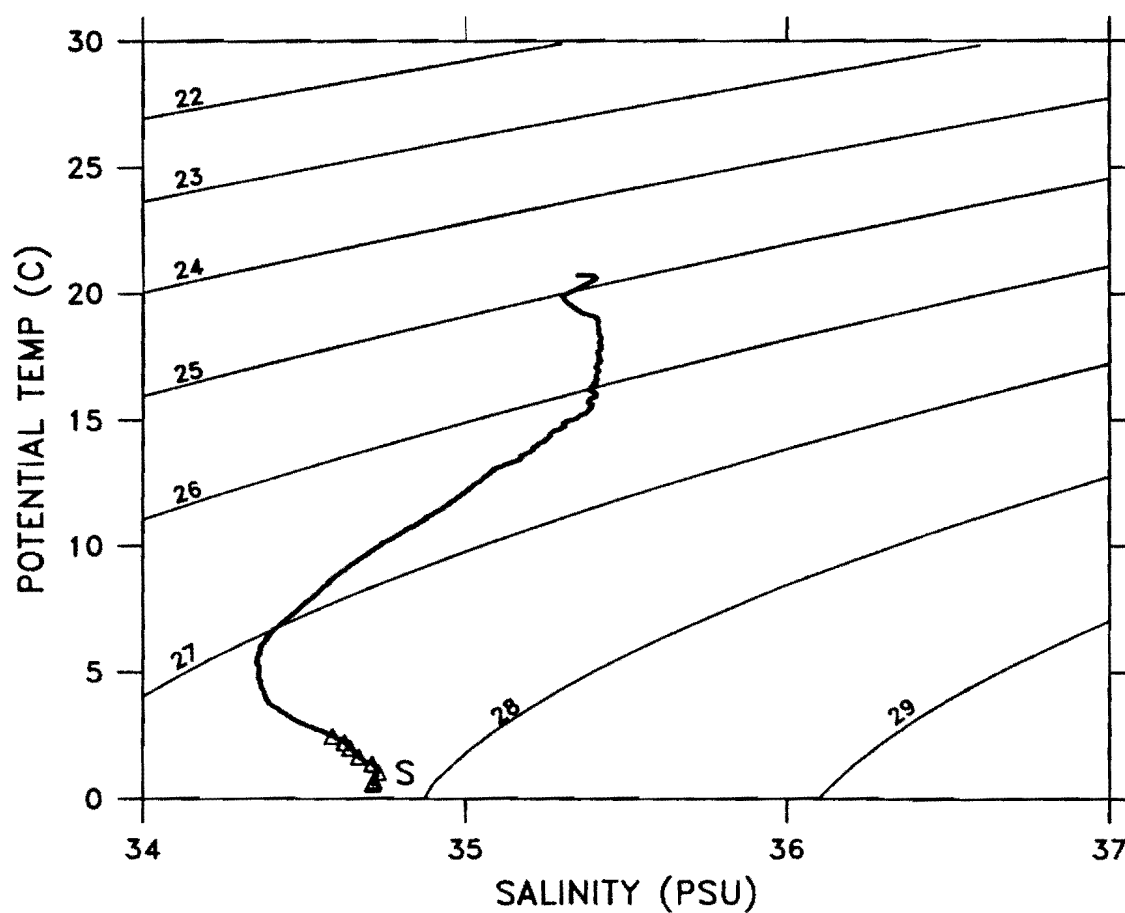


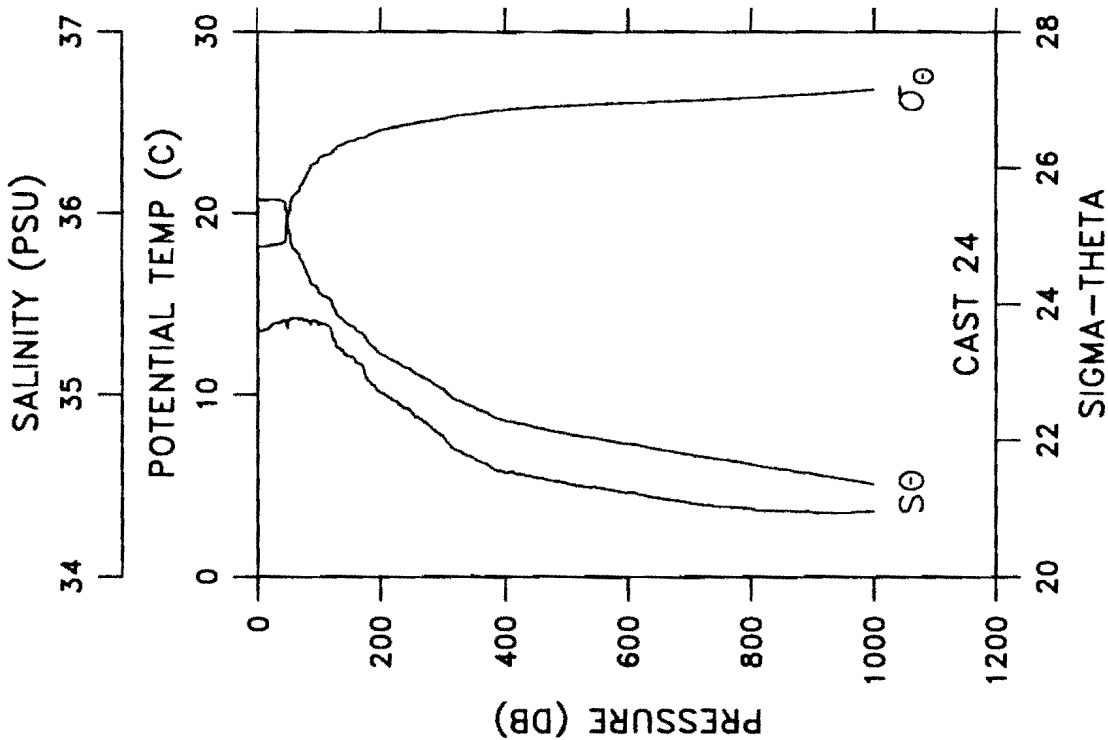
CAST CG1-90-WB -023 DATE 02 MAR 90 TIME 1719 GMT
 LAT 35 02.0S LONG 170 03.4W WEATHER 2 SEA STATE 3
 BAROMETER 12 WIND DIR 015 T SPD 18 KT VISIBILITY 6
 CLOUD 7 AMOUNT 8 DRY 21.0 WET 20.5 DEPTH 5128 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.740	35.376	24.852	0.000
10	20.737	35.376	24.853	0.031
20	20.715	35.376	24.859	0.062
30	20.628	35.375	24.882	0.093
40	20.613	35.383	24.891	0.123
50	18.942	35.398	25.342	0.152
60	17.712	35.420	25.666	0.177
70	17.150	35.425	25.806	0.200
80	16.281	35.393	25.986	0.221
90	15.935	35.412	26.081	0.241
100	15.596	35.396	26.145	0.261
110	15.342	35.383	26.192	0.279
120	14.803	35.311	26.256	0.298
130	14.521	35.293	26.303	0.315
140	14.195	35.259	26.347	0.332
150	13.857	35.211	26.381	0.350
160	13.533	35.169	26.416	0.366
170	12.941	35.084	26.471	0.383
180	12.875	35.084	26.484	0.398
190	12.625	35.056	26.512	0.414
200	12.393	35.027	26.535	0.430
250	11.569	34.938	26.623	0.505
300	10.580	34.801	26.696	0.577
350	9.445	34.664	26.783	0.645
400	8.839	34.611	26.840	0.711
450	8.313	34.558	26.880	0.774
500	7.887	34.515	26.910	0.836
550	7.563	34.485	26.933	0.896
600	7.281	34.456	26.951	0.957
650	7.003	34.428	26.968	1.016
700	6.740	34.407	26.987	1.075
750	6.509	34.388	27.003	1.133
800	6.286	34.376	27.023	1.191
900	5.638	34.357	27.089	1.302
1000	5.071	34.359	27.159	1.408
1500	2.896	34.505	27.499	1.825

CAST CG1-90-MB -024 DATE 02 MAR 90 TIME 2115 GMT
LAT 35 01.4S LONG 170 00.6W

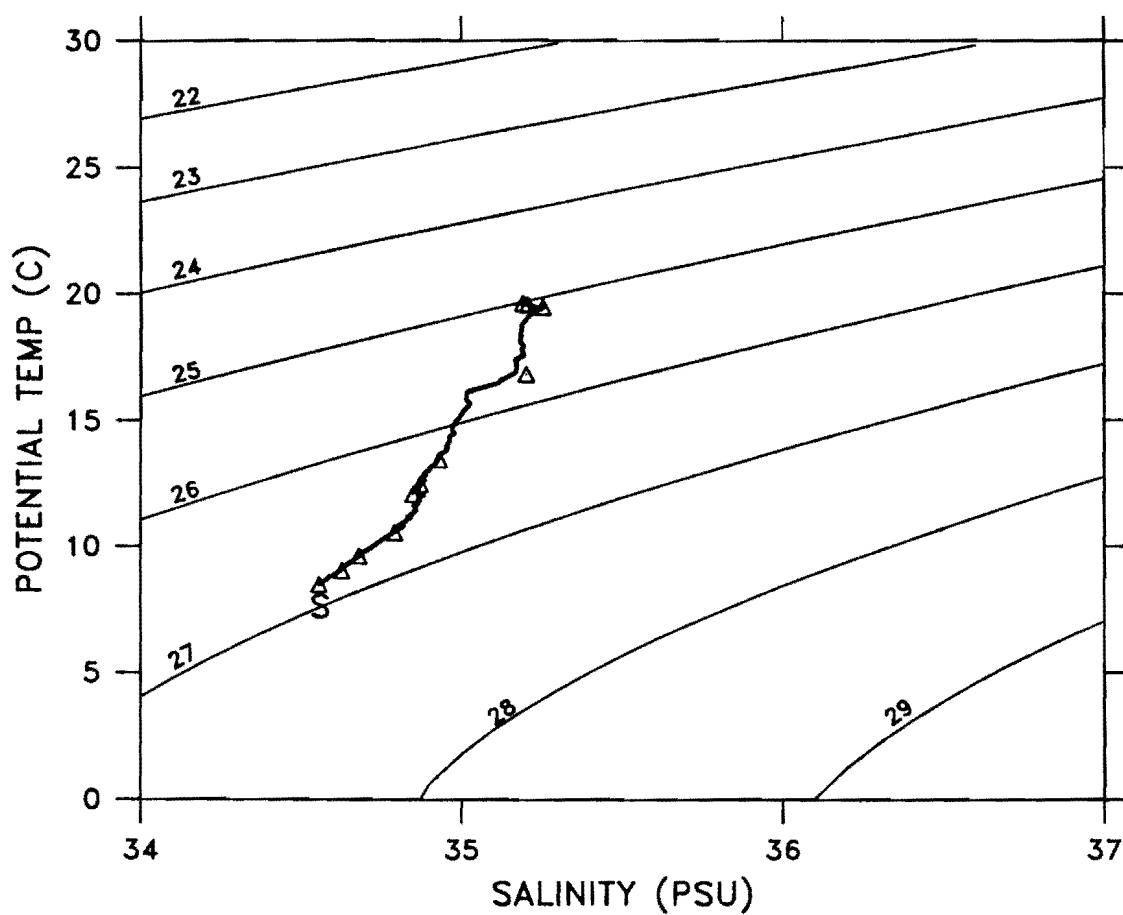




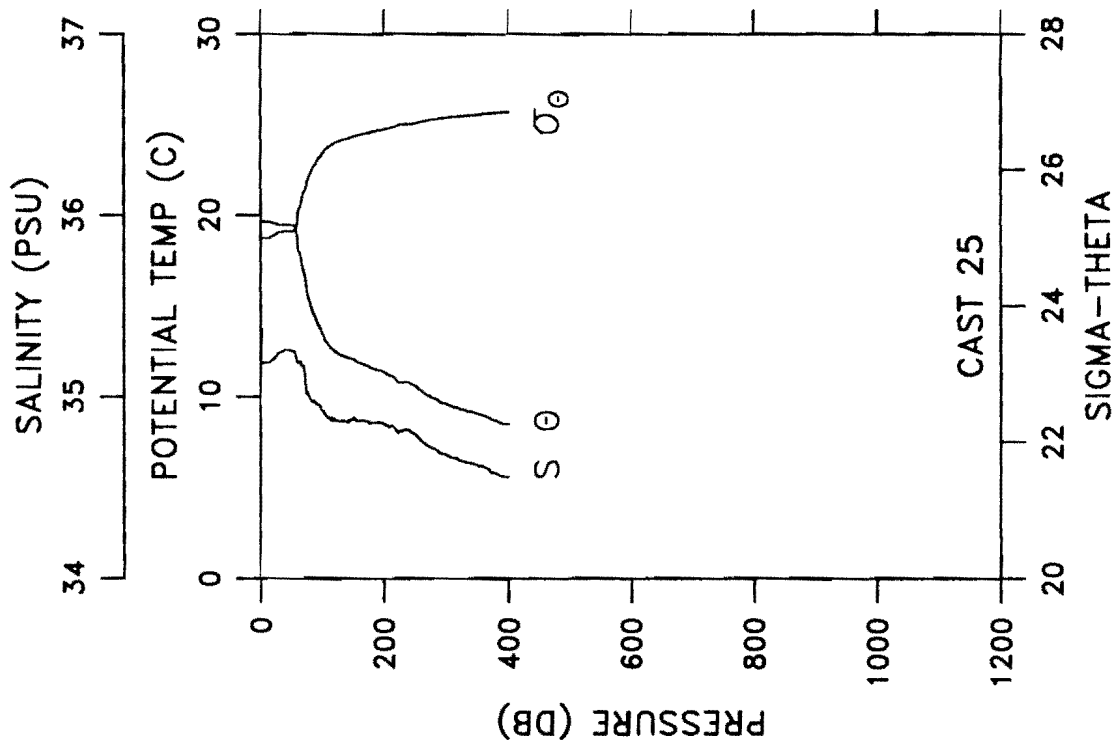
CAST CG1-90-MB -024 DATE 02 MAR 90 TIME 2115 GMT
 LAT 35 01.4S LONG 170 00.6W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 355 T SPD 17 KT VISIBILITY 8
 CLOUD 4 AMOUNT 8 DRY 23.7 WET 22.6 DEPTH 5225 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.734	35.350	24.834	0.000
10	20.731	35.356	24.839	0.031
20	20.735	35.373	24.851	0.062
30	20.733	35.396	24.869	0.093
40	20.672	35.407	24.894	0.124
50	19.068	35.410	25.318	0.153
60	17.987	35.424	25.601	0.178
70	17.372	35.423	25.751	0.201
80	16.629	35.412	25.920	0.223
90	16.049	35.408	26.052	0.243
100	15.609	35.396	26.143	0.263
110	15.416	35.391	26.182	0.282
120	15.061	35.346	26.226	0.300
130	14.356	35.264	26.316	0.318
140	14.080	35.229	26.348	0.335
150	13.824	35.210	26.387	0.352
160	13.585	35.171	26.407	0.369
170	13.392	35.161	26.439	0.385
180	12.885	35.077	26.476	0.401
190	12.584	35.047	26.513	0.417
200	12.253	35.009	26.548	0.433
250	11.353	34.906	26.638	0.507
300	10.325	34.774	26.719	0.578
350	9.318	34.651	26.794	0.645
400	8.574	34.573	26.851	0.710
450	8.202	34.546	26.887	0.772
500	7.881	34.515	26.911	0.834
550	7.598	34.491	26.933	0.895
600	7.302	34.463	26.954	0.955
650	7.001	34.432	26.971	1.015
700	6.722	34.407	26.990	1.073
750	6.453	34.387	27.010	1.131
800	6.192	34.375	27.034	1.188
900	5.671	34.356	27.085	1.299
1000	5.082	34.359	27.158	1.405
1500	2.847	34.514	27.511	1.824
2000	2.224	34.622	27.651	2.119
2500	1.867	34.653	27.704	2.381
3000	1.595	34.673	27.741	2.627
3500	1.379	34.708	27.785	2.858
4000	1.037	34.724	27.821	3.069
4500	0.895	34.716	27.837	3.260
5000	0.590	34.711	27.839	3.444
5278	0.579	34.710	27.839	3.549

CAST CG1-90-MB -025 DATE 03 MAR 90 TIME 1037 GMT
LAT 37 30.6S LONG 170 01.1W

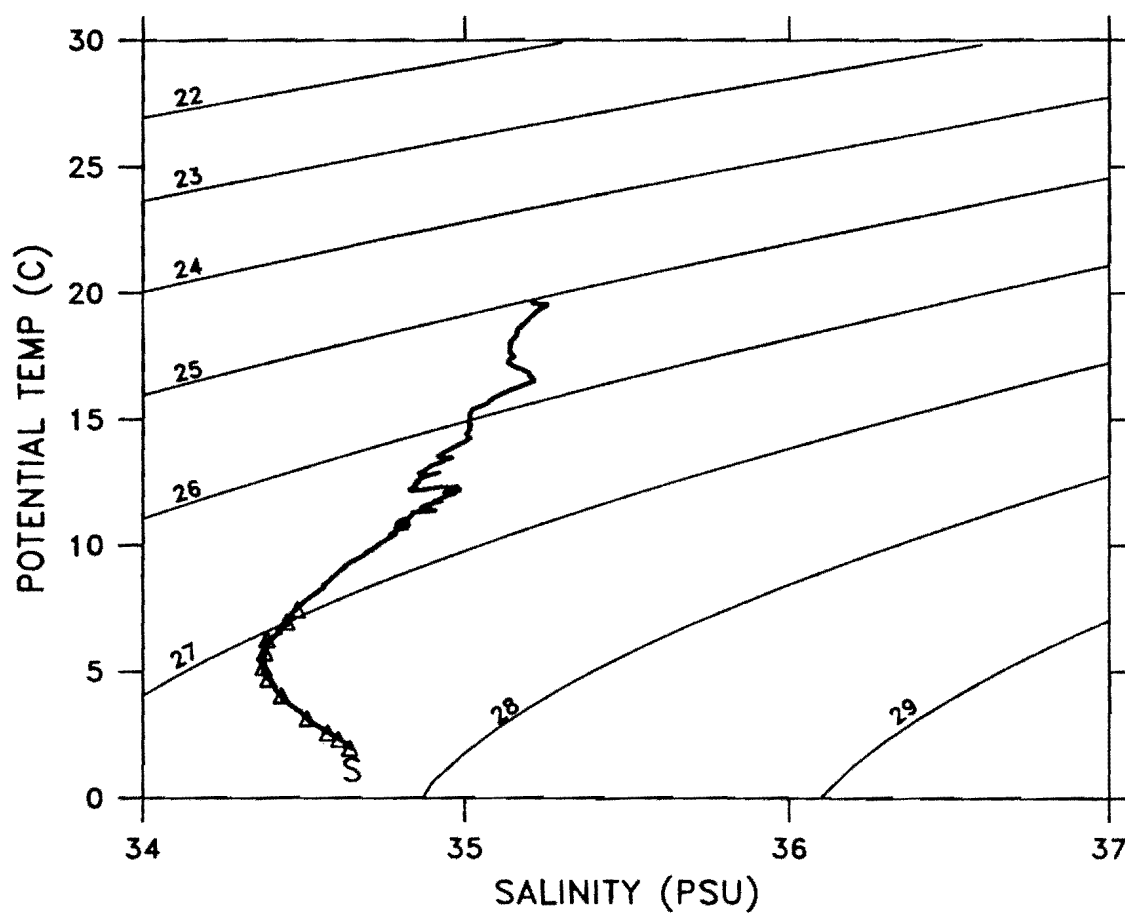


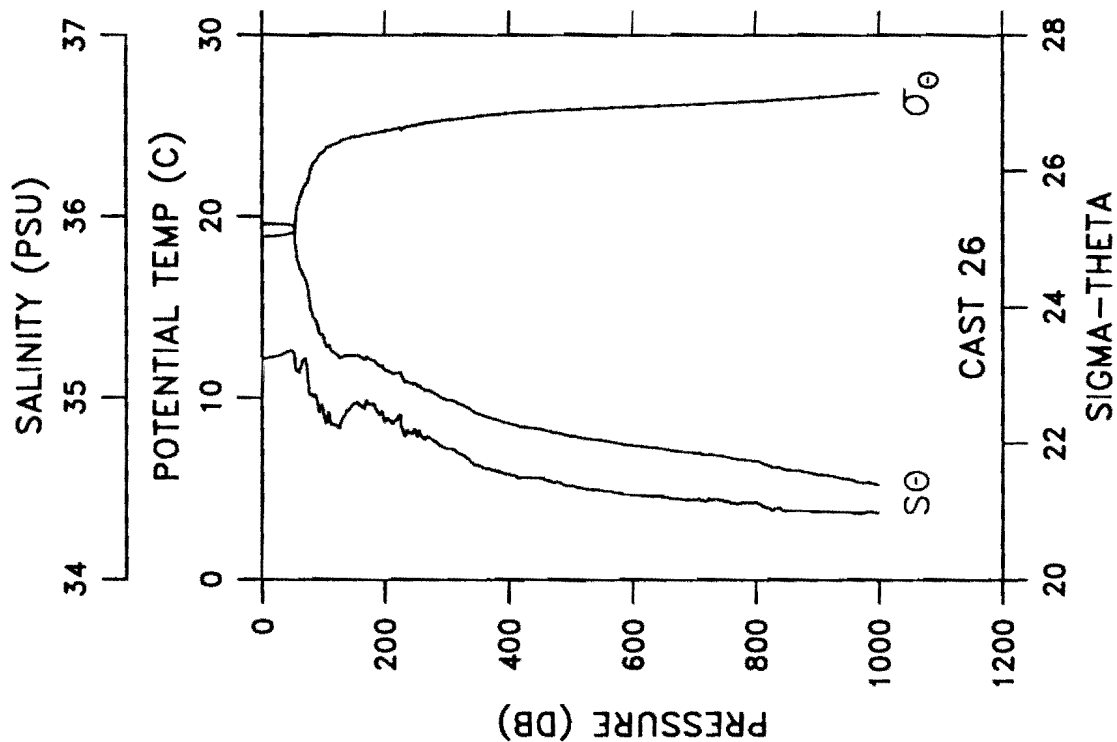
CAST CG1-90-MB -025 DATE 03 MAR 90 TIME 1037 GMT
 LAT 37 30.6S LONG 170 01.1W WEATHER 1 SEA STATE 2
 BAROMETER 09 WIND DIR 055 T SPD 12 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 19.8 WET 20.3 DEPTH 5149 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.655	35.185	24.994	0.000
10	19.653	35.185	24.996	0.030
20	19.577	35.206	25.031	0.059
30	19.464	35.240	25.087	0.088
40	19.477	35.256	25.095	0.117
50	19.458	35.252	25.097	0.146
60	18.772	35.188	25.224	0.174
70	16.921	35.169	25.684	0.199
80	15.139	34.994	25.937	0.221
90	14.340	34.961	26.086	0.241
100	13.481	34.925	26.238	0.260
110	12.815	34.887	26.343	0.277
120	12.493	34.871	26.394	0.294
130	12.275	34.863	26.430	0.311
140	12.164	34.861	26.450	0.327
150	12.051	34.881	26.488	0.343
160	11.849	34.863	26.512	0.358
170	11.720	34.866	26.539	0.374
180	11.553	34.855	26.582	0.389
190	11.448	34.856	26.582	0.404
200	11.357	34.850	26.594	0.419
250	10.615	34.796	26.686	0.491
300	9.825	34.682	26.767	0.559
350	9.069	34.624	26.813	0.625
400	8.480	34.558	26.854	0.689
401	8.480	34.559	26.855	0.690

CAST CG1-90-MB -026 DATE 03 MAR 90 TIME 1252 GMT
LAT 37 32.6S LONG 170 02.2w

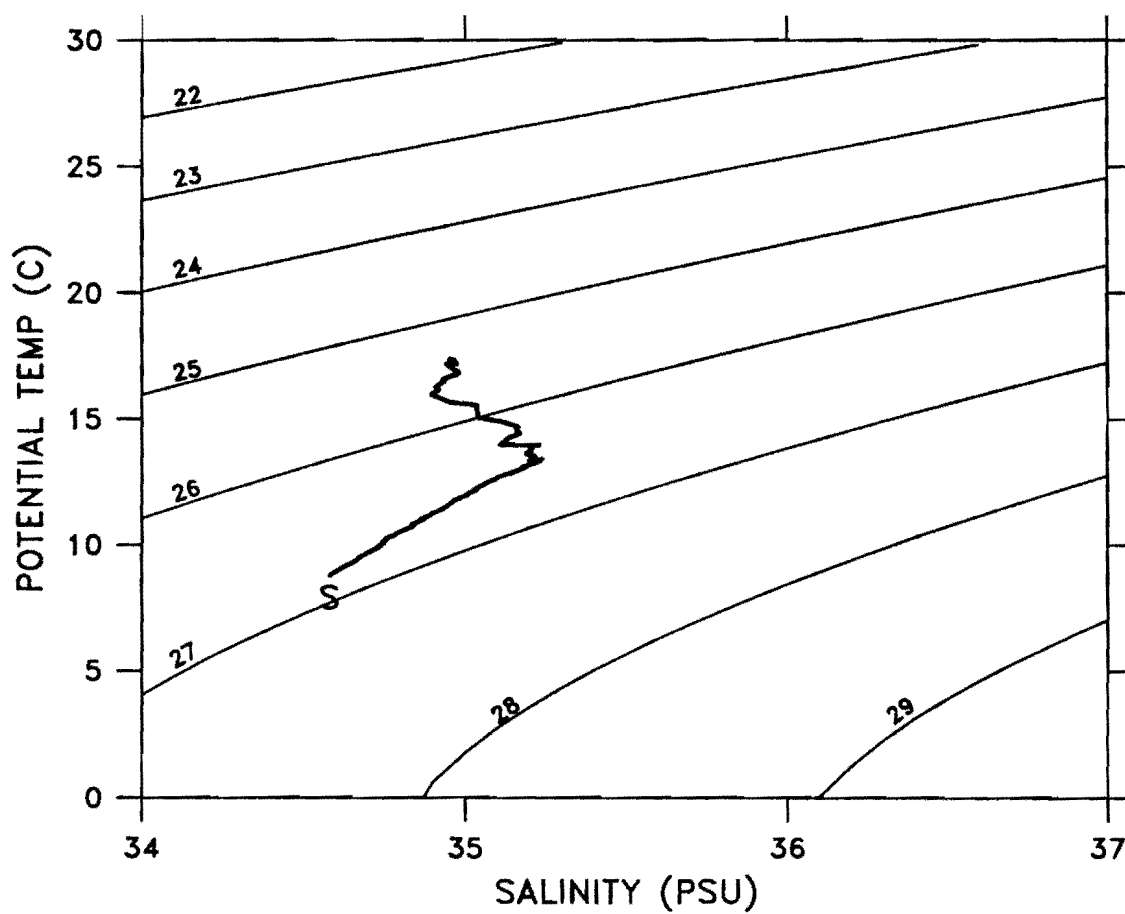




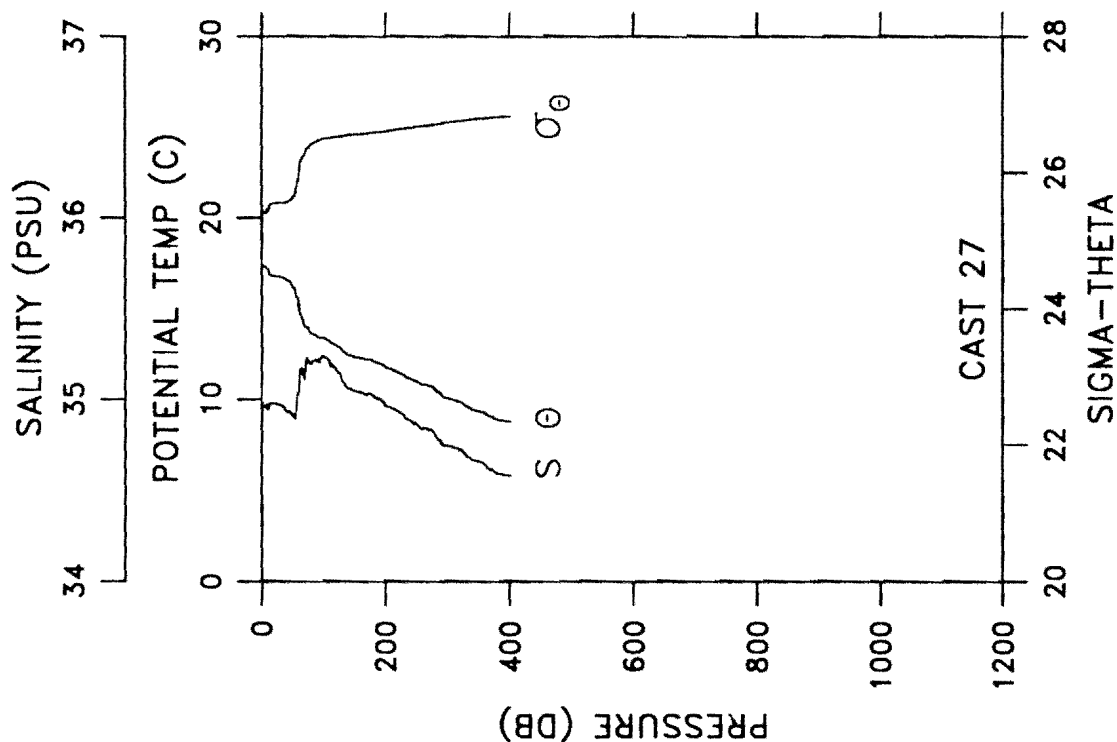
CAST CG1-90-MB -026 DATE 03 MAR 90 TIME 1252 GMT
 LAT 37 32.6S LONG 170 02.2W WEATHER 4 SEA STATE 2
 BAROMETER 06 WIND DIR 040 T SPD 18 KT VISIBILITY 7
 CLOUD x AMOUNT 7 DRY 20.0 WET 19.5 DEPTH 5170 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.599	35.217	25.034	0.000
10	19.582	35.219	25.039	0.029
20	19.582	35.224	25.044	0.058
30	19.571	35.231	25.051	0.087
40	19.556	35.249	25.069	0.116
50	19.488	35.255	25.082	0.145
60	17.363	35.139	25.535	0.172
70	16.564	35.213	25.782	0.195
80	14.794	35.020	26.033	0.217
90	14.019	34.984	26.171	0.236
100	13.302	34.927	26.276	0.254
110	12.850	34.904	26.349	0.271
120	12.391	34.844	26.394	0.288
130	12.220	34.880	26.454	0.304
140	12.300	34.927	26.475	0.320
150	12.312	34.966	26.503	0.336
160	12.246	34.960	26.511	0.351
170	12.226	34.986	26.535	0.367
180	12.035	34.961	26.553	0.382
190	11.773	34.913	26.565	0.397
200	11.456	34.885	26.587	0.412
250	10.777	34.809	26.668	0.485
300	9.884	34.719	26.753	0.554
350	9.138	34.628	26.805	0.621
400	8.599	34.578	26.852	0.685
450	8.291	34.559	26.884	0.748
500	7.916	34.518	26.908	0.810
550	7.655	34.490	26.925	0.871
600	7.373	34.466	26.946	0.932
650	7.180	34.455	26.964	0.992
700	6.964	34.438	26.981	1.051
750	6.748	34.428	27.003	1.109
800	6.525	34.426	27.031	1.167
900	5.752	34.372	27.087	1.279
1000	5.217	34.371	27.152	1.385
1500	3.052	34.517	27.495	1.812
2000	2.341	34.610	27.632	2.121
2500	1.981	34.646	27.690	2.394
2501	1.980	34.647	27.690	2.394

CAST CG1-90-MB -027 DATE 04 MAR 90 TIME 0052 GMT
LAT 40 00.0S LONG 170 00.2W

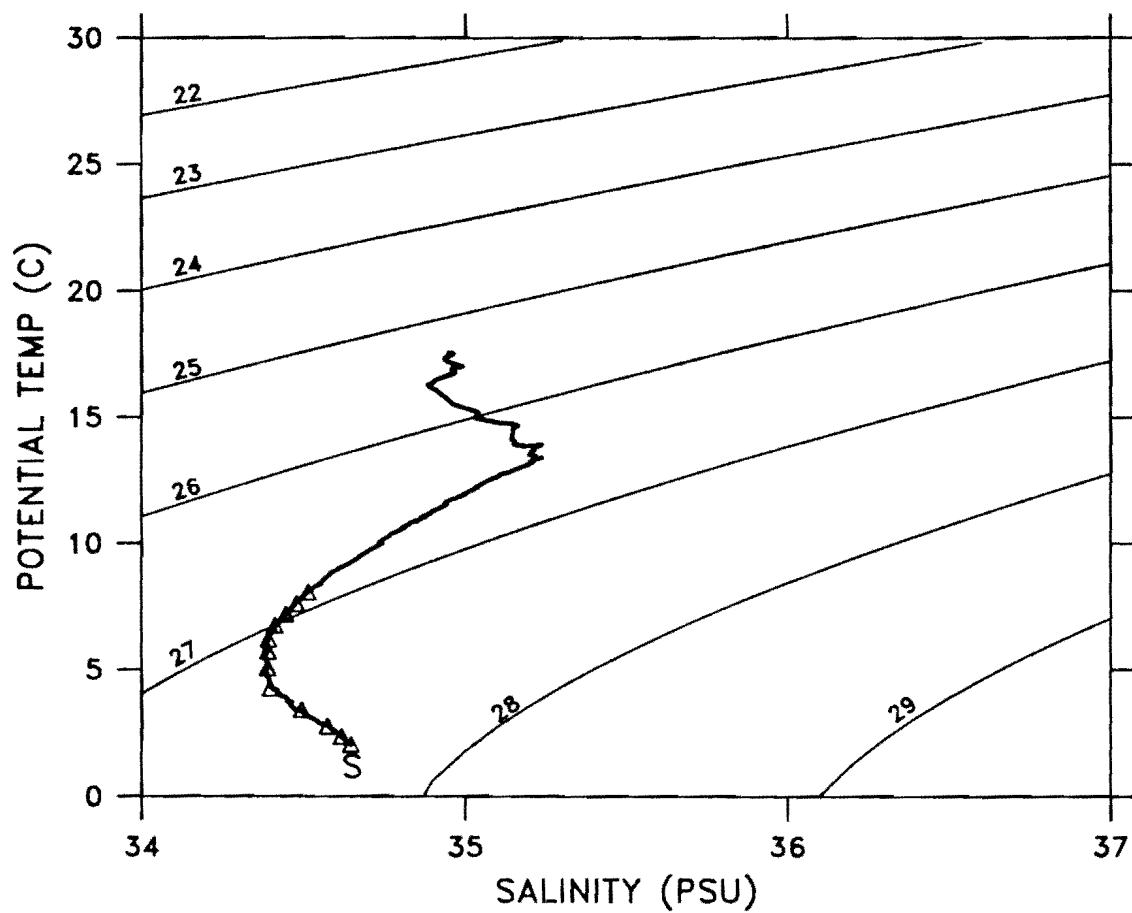


CAST CG1-90-MB -027 DATE 04 MAR 90 TIME 0052 GMT
 LAT 40 00.0S LONG 170 00.2W WEATHER 4 SEA STATE 2
 BAROMETER 07 WIND DIR 038 T SPD 14 KT VISIBILITY 7
 CLOUD 5 AMOUNT 8 DRY 19.0 WET 19.5 DEPTH 4626 M

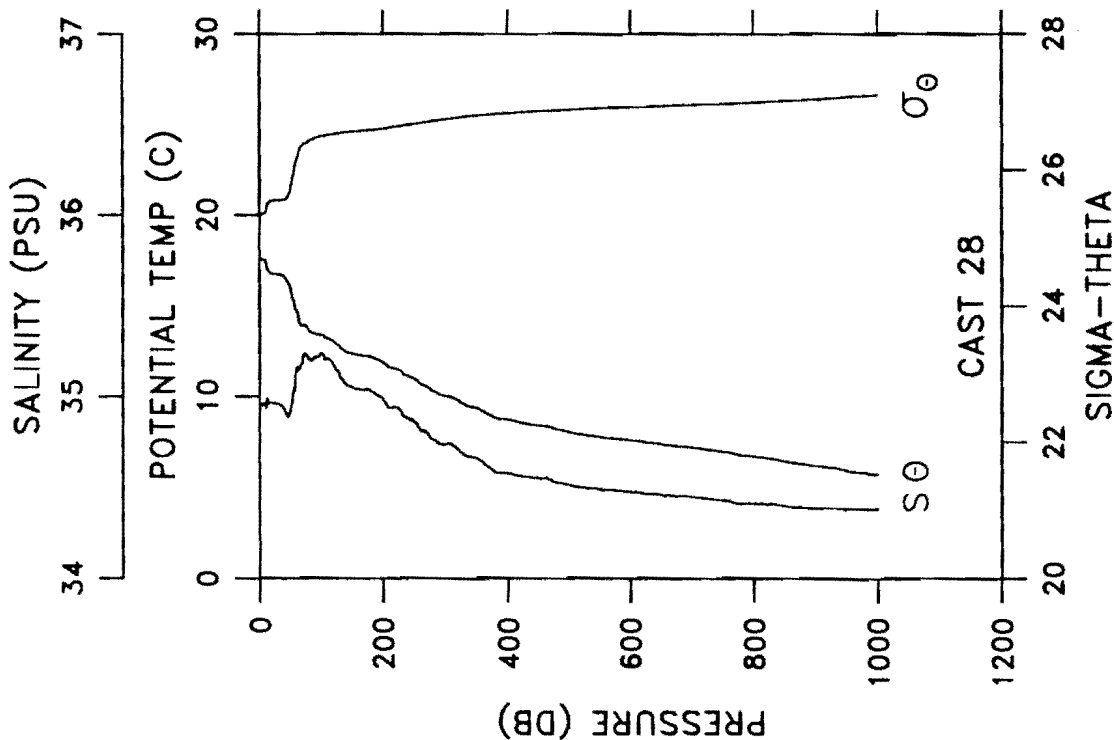


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.317	34.966	25.413	0.000
10	17.173	34.940	25.428	0.026
20	16.805	34.978	25.544	0.050
30	16.748	34.969	25.551	0.074
40	16.596	34.935	25.561	0.099
50	16.177	34.917	25.644	0.123
60	15.051	35.041	25.993	0.145
70	13.984	35.148	26.306	0.163
80	13.607	35.195	26.421	0.180
90	13.438	35.219	26.474	0.196
100	13.376	35.235	26.499	0.212
110	13.183	35.198	26.510	0.227
120	12.954	35.163	26.529	0.243
130	12.623	35.095	26.543	0.258
140	12.413	35.059	26.556	0.273
150	12.321	35.046	26.563	0.288
160	12.260	35.037	26.569	0.303
170	12.173	35.026	26.577	0.318
180	12.098	35.020	26.586	0.333
190	11.976	35.003	26.596	0.348
200	11.762	34.964	26.607	0.363
250	11.008	34.871	26.674	0.435
300	10.090	34.747	26.740	0.505
350	9.354	34.659	26.794	0.572
400	8.778	34.582	26.827	0.637
401	8.776	34.582	26.827	0.638

CAST CG1-90-MB -028 DATE 04 MAR 90 TIME 0306 GMT
LAT 40 00.8S LONG 170 00.1W

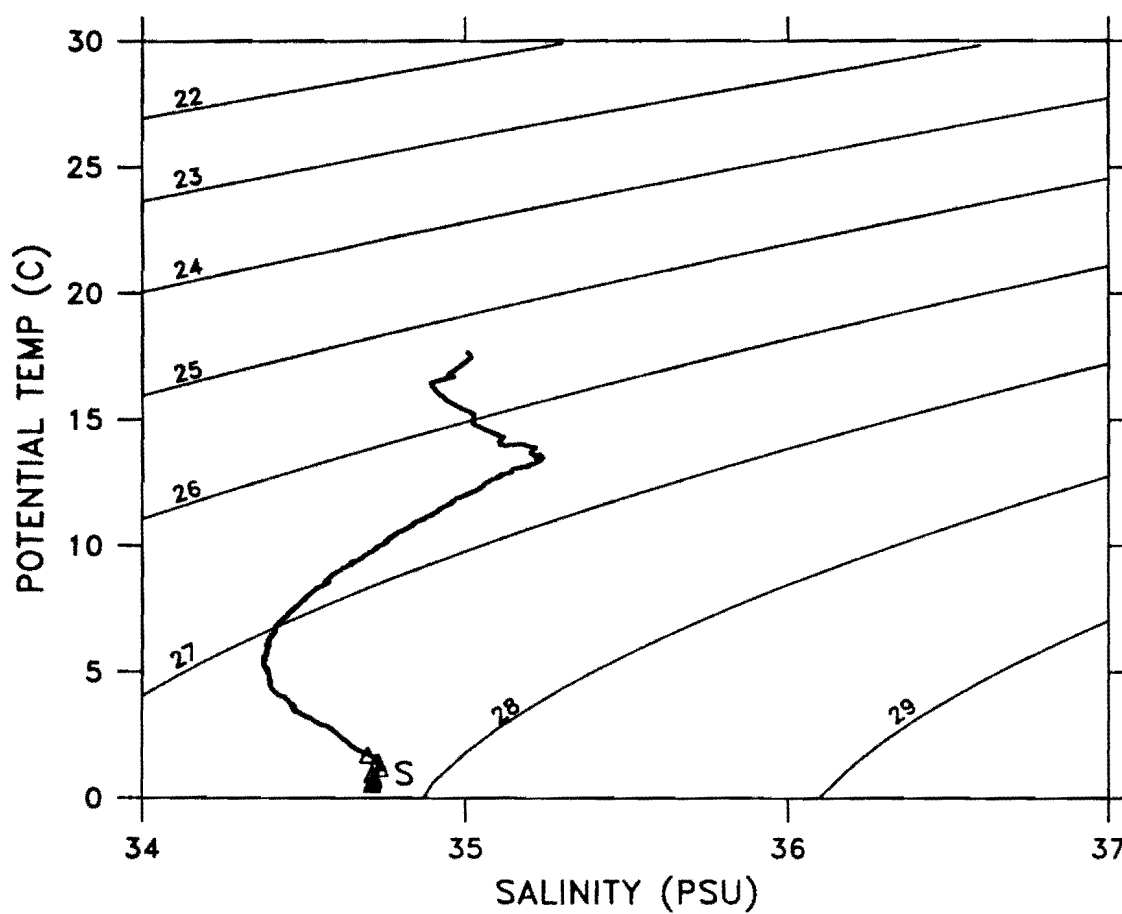


CAST CG1-90-MB --028 DATE 04 MAR 90 TIME 0306 GMT
 LAT 40 00.8S LONG 170 00.1W WEATHER 5 SEA STATE 4
 BAROMETER 07 WIND DIR 040 T SPD 10 KT VISIBILITY 2
 CLOUD 7 AMOUNT 8 DRY 19.0 WET 19.5 DEPTH 4626 M

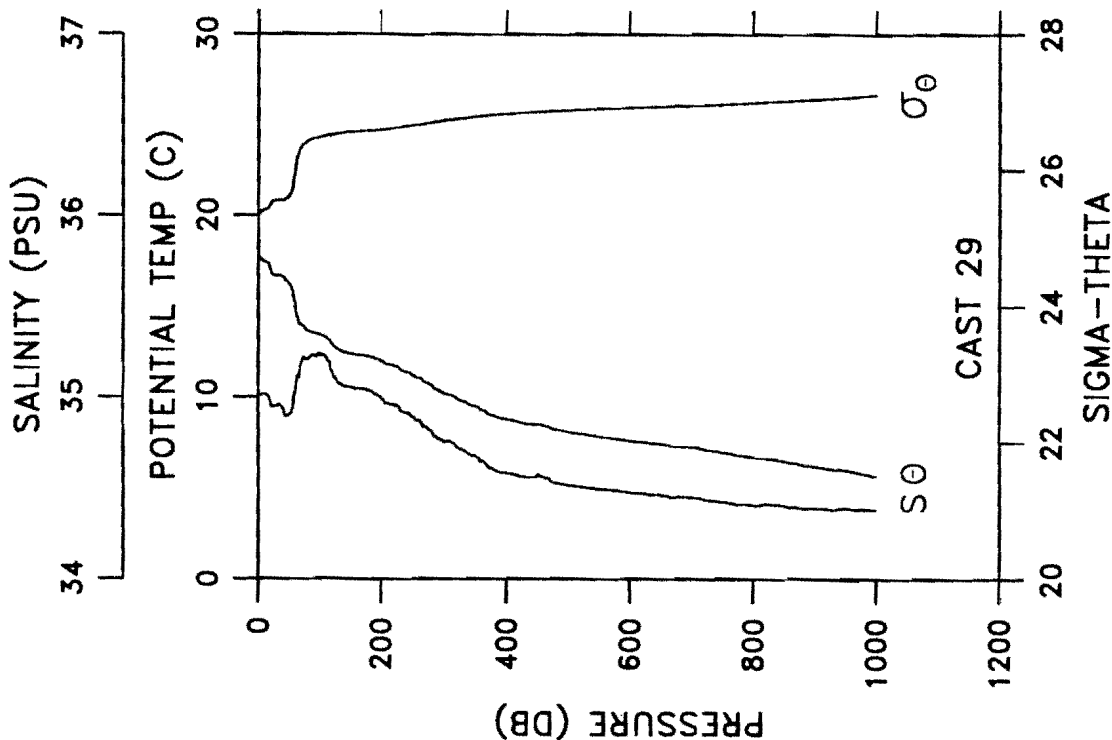


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.557	34.948	25.342	0.000
10	17.350	34.935	25.381	0.026
20	16.768	34.966	25.544	0.051
30	16.711	34.959	25.552	0.075
40	16.583	34.929	25.559	0.100
50	16.031	34.913	25.675	0.123
60	14.757	35.146	26.138	0.144
70	13.887	35.212	26.375	0.162
80	13.657	35.205	26.418	0.178
90	13.480	35.217	26.464	0.194
100	13.406	35.236	26.494	0.210
110	13.218	35.206	26.509	0.226
120	13.017	35.170	26.522	0.241
130	12.733	35.107	26.530	0.256
140	12.448	35.064	26.552	0.271
150	12.356	35.050	26.559	0.287
160	12.281	35.039	26.566	0.302
170	12.219	35.034	26.574	0.317
180	12.169	35.029	26.580	0.332
190	12.033	35.008	26.589	0.347
200	11.879	34.986	26.602	0.361
250	10.954	34.859	26.675	0.434
300	10.015	34.736	26.743	0.503
350	9.359	34.660	26.794	0.570
400	8.726	34.577	26.830	0.635
450	8.422	34.553	26.859	0.699
500	8.061	34.514	26.883	0.762
550	7.780	34.491	26.907	0.824
600	7.605	34.475	26.920	0.886
650	7.391	34.458	26.938	0.947
700	7.202	34.448	26.956	1.008
750	6.971	34.429	26.973	1.088
800	6.725	34.412	26.993	1.127
900	6.217	34.388	27.041	1.243
1000	5.725	34.389	27.104	1.355
1500	3.381	34.494	27.446	1.810
2000	2.359	34.616	27.635	2.128
2301	2.043	34.647	27.686	2.292

CAST CG1-90-MB -029 DATE 04 MAR 90 TIME 0706 GMT
LAT 40 01.7S LONG 170 01.7W

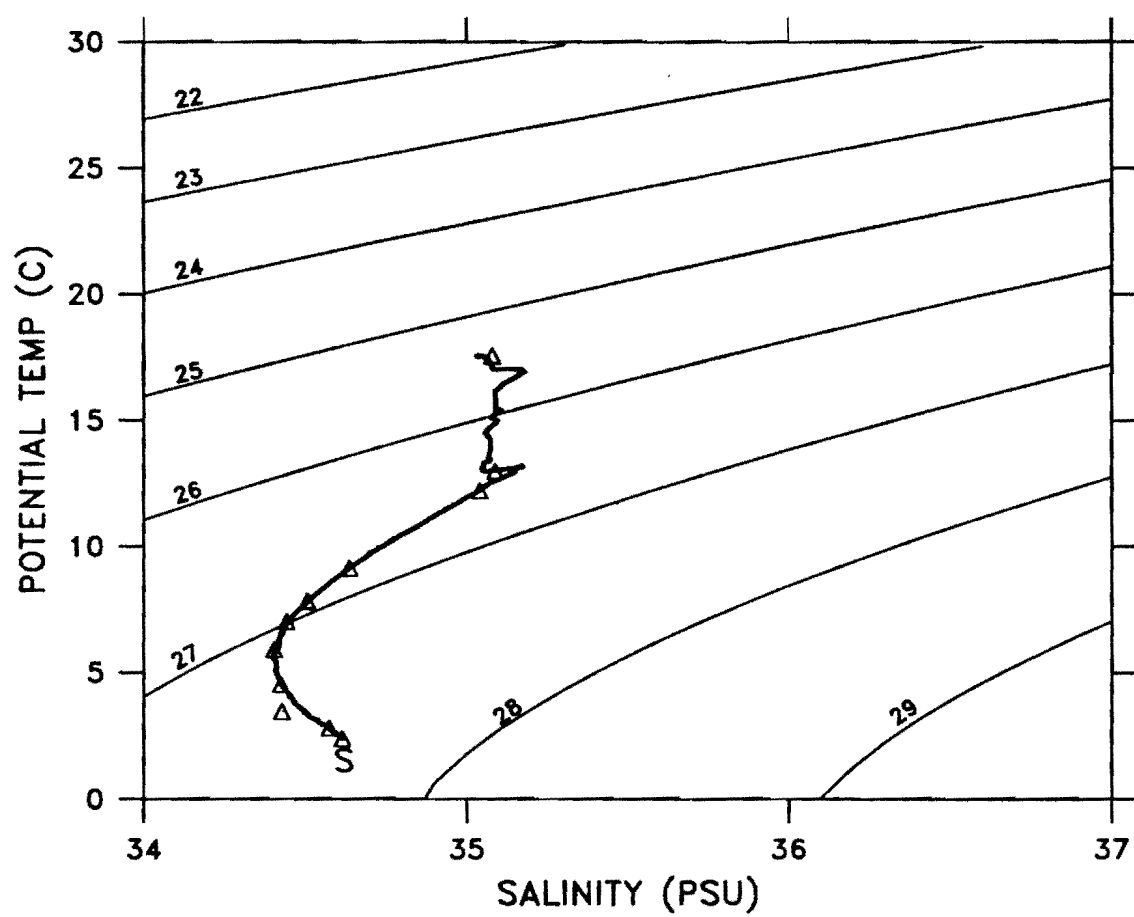


CAST CG1-90-MB -029 DATE 04 MAR 90 TIME 0706 GMT
 LAT 40 01.7S LONG 170 01.7W WEATHER 5 SEA STATE 3
 BAROMETER 06 WIND DIR 168 T SPD 05 KT VISIBILITY 0
 CLOUD 7 AMOUNT 8 DRY 17.8 WET 18.7 DEPTH 4626 M

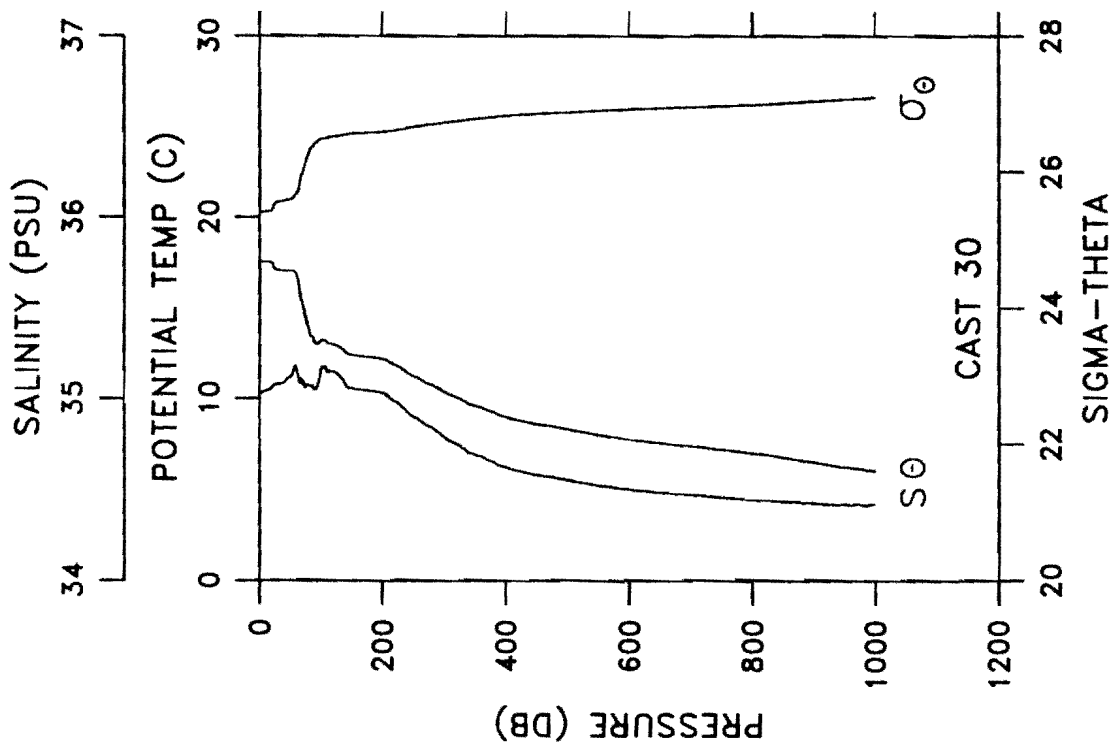


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.659	35.008	25.363	0.000
10	17.463	35.017	25.417	0.026
20	16.941	34.962	25.500	0.051
30	16.693	34.951	25.550	0.076
40	16.618	34.935	25.556	0.100
50	16.238	34.902	25.618	0.124
60	14.837	35.022	26.026	0.146
70	13.962	35.191	26.343	0.164
80	13.626	35.207	26.426	0.181
90	13.526	35.229	26.464	0.197
100	13.449	35.234	26.483	0.213
110	13.283	35.219	26.506	0.228
120	12.907	35.140	26.520	0.244
130	12.589	35.078	26.536	0.259
140	12.433	35.058	26.551	0.274
150	12.374	35.053	26.559	0.289
160	12.312	35.047	26.566	0.304
170	12.281	35.045	26.570	0.319
180	12.207	35.037	26.578	0.334
190	12.100	35.013	26.580	0.349
200	11.991	34.997	26.589	0.364
250	11.193	34.891	26.656	0.438
300	10.230	34.758	26.724	0.508
350	9.509	34.677	26.783	0.576
400	8.779	34.581	26.825	0.642
450	8.501	34.568	26.859	0.706
500	8.086	34.515	26.881	0.769
550	7.825	34.495	26.903	0.831
600	7.607	34.475	26.920	0.893
650	7.419	34.462	26.936	0.954
700	7.245	34.449	26.951	1.015
750	6.966	34.423	26.969	1.076
800	6.689	34.405	26.993	1.135
900	6.189	34.388	27.045	1.251
1000	5.646	34.381	27.108	1.362
1500	3.285	34.495	27.456	1.814
2000	2.327	34.620	27.641	2.130
2500	1.856	34.671	27.720	2.392
3000	1.515	34.727	27.790	2.620
3500	1.096	34.729	27.821	2.823
4000	0.740	34.716	27.834	3.008
4500	0.568	34.710	27.839	3.185
4677	0.538	34.709	27.841	3.247

CAST CG1-90-MB -030 DATE 04 MAR 90 TIME 1535 GMT
LAT 40 59.8S LONG 170 28.8W

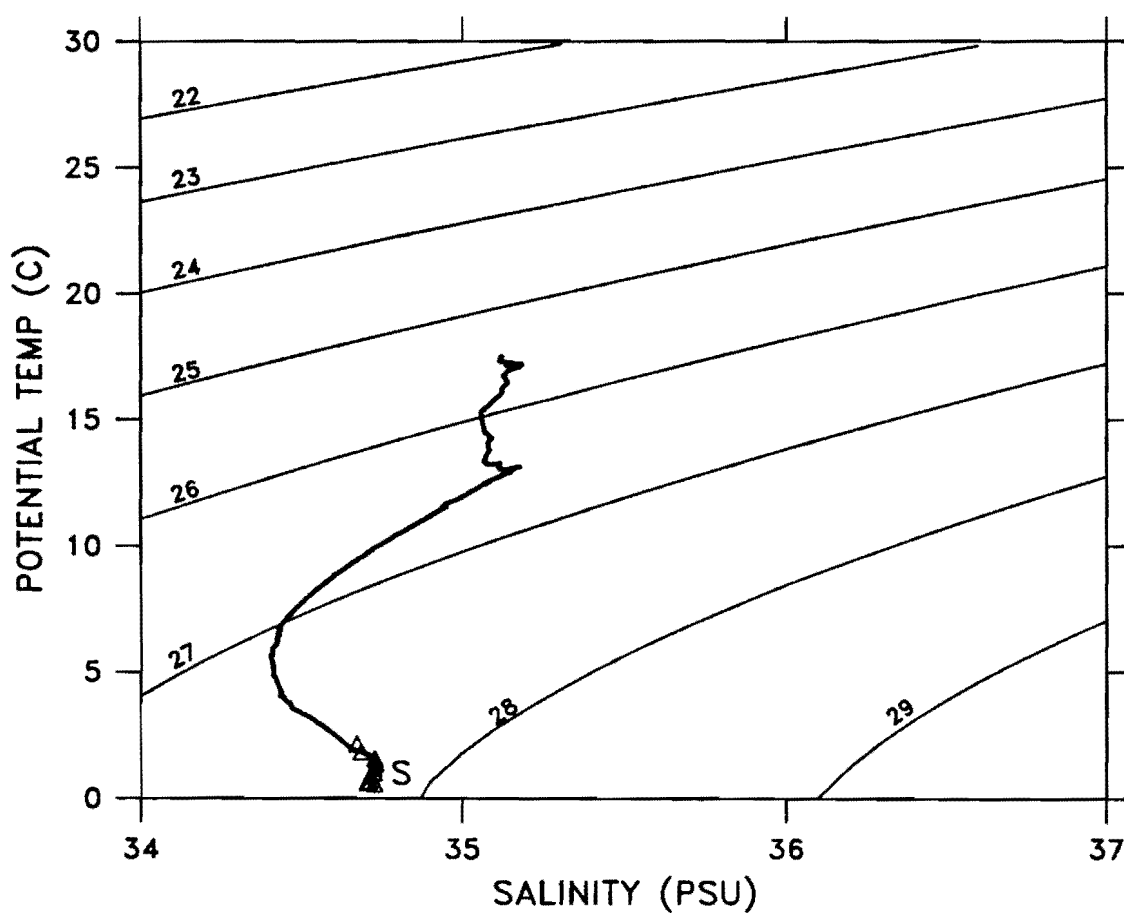


CST CG1-90-MB -030 DATE 04 MAR 90 TIME 1535 GMT
 LAT 40 59.8S LONG 170 28.8W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 192 T SPD 10 KT VISIBILITY 6
 CLOUD 2 AMOUNT 6 DRY 18.0 WET 18.0 DEPTH 4248 M

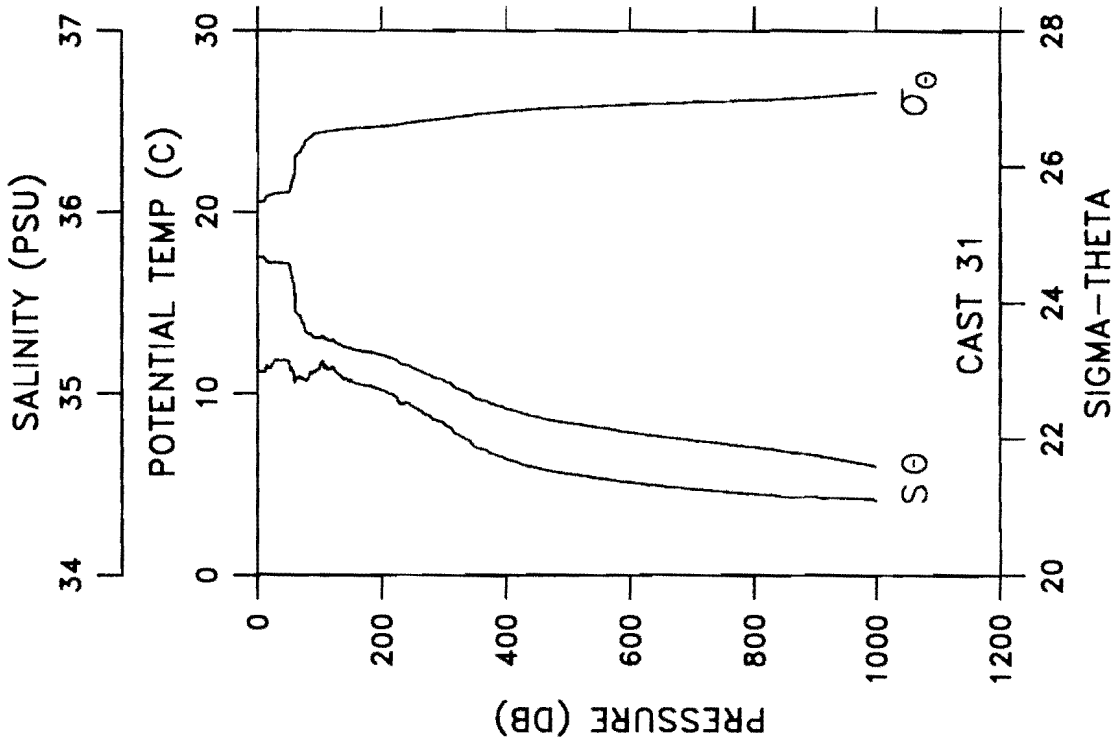


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.555	35.032	25.406	0.000
10	17.555	35.042	25.414	0.026
20	17.469	35.062	25.450	0.051
30	17.086	35.080	25.557	0.076
40	17.038	35.086	25.572	0.100
50	17.055	35.119	25.594	0.124
60	16.711	35.149	25.698	0.148
70	14.996	35.096	26.047	0.169
80	13.689	35.069	26.307	0.188
90	13.012	35.053	26.432	0.204
100	13.197	35.171	26.486	0.220
110	13.016	35.148	26.505	0.236
120	12.943	35.148	26.520	0.251
130	12.816	35.124	26.527	0.266
140	12.502	35.069	26.546	0.282
150	12.384	35.056	26.559	0.297
160	12.328	35.049	26.564	0.312
170	12.292	35.045	26.568	0.327
180	12.252	35.041	26.573	0.342
190	12.210	35.036	26.578	0.357
200	12.154	35.031	26.584	0.372
250	11.230	34.901	26.657	0.446
300	10.350	34.786	26.724	0.516
350	9.611	34.692	26.777	0.584
400	8.999	34.623	26.823	0.650
450	8.592	34.579	26.853	0.714
500	8.335	34.554	26.874	0.778
550	8.005	34.524	26.899	0.841
600	7.763	34.503	26.919	0.903
650	7.556	34.486	26.935	0.964
700	7.385	34.472	26.949	1.025
750	7.192	34.458	26.966	1.086
800	6.987	34.445	26.983	1.146
900	6.502	34.428	27.036	1.263
1000	6.006	34.415	27.090	1.376
1500	3.472	34.498	27.440	1.841
2000	2.386	34.617	27.633	2.165
2002	2.386	34.616	27.633	2.166

CAST CG1-90-MB -031 DATE 04 MAR 90 TIME 1908 GMT
LAT 40 58.1S LONG 170 29.0W

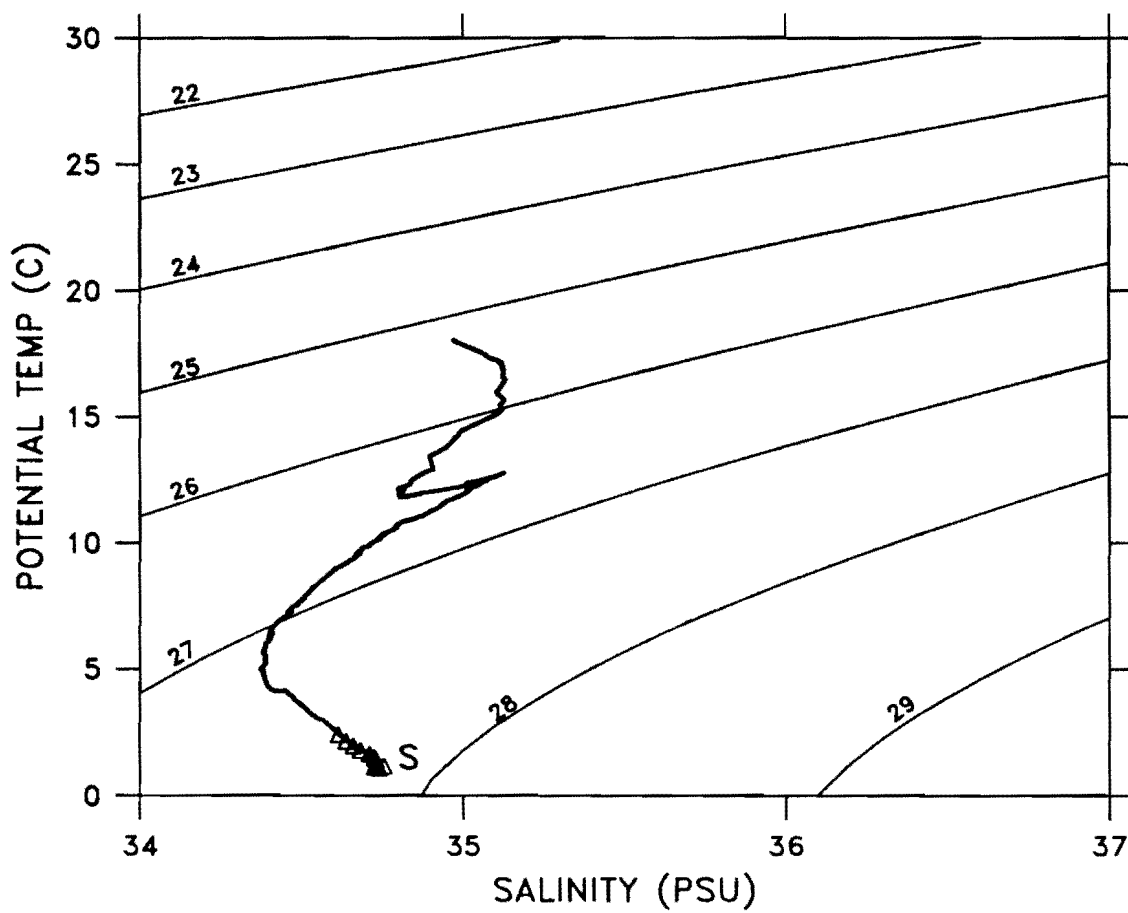


CAST CG1-90-MB -031 DATE 04 MAR 90 TIME 1908 GMT
 LAT 40 58.1S LONG 170 29.0W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 195 T SPD 14 KT VISIBILITY 8
 CLOUD 4 AMOUNT 1 DRY 18.5 WET 18.5 DEPTH 4323 M

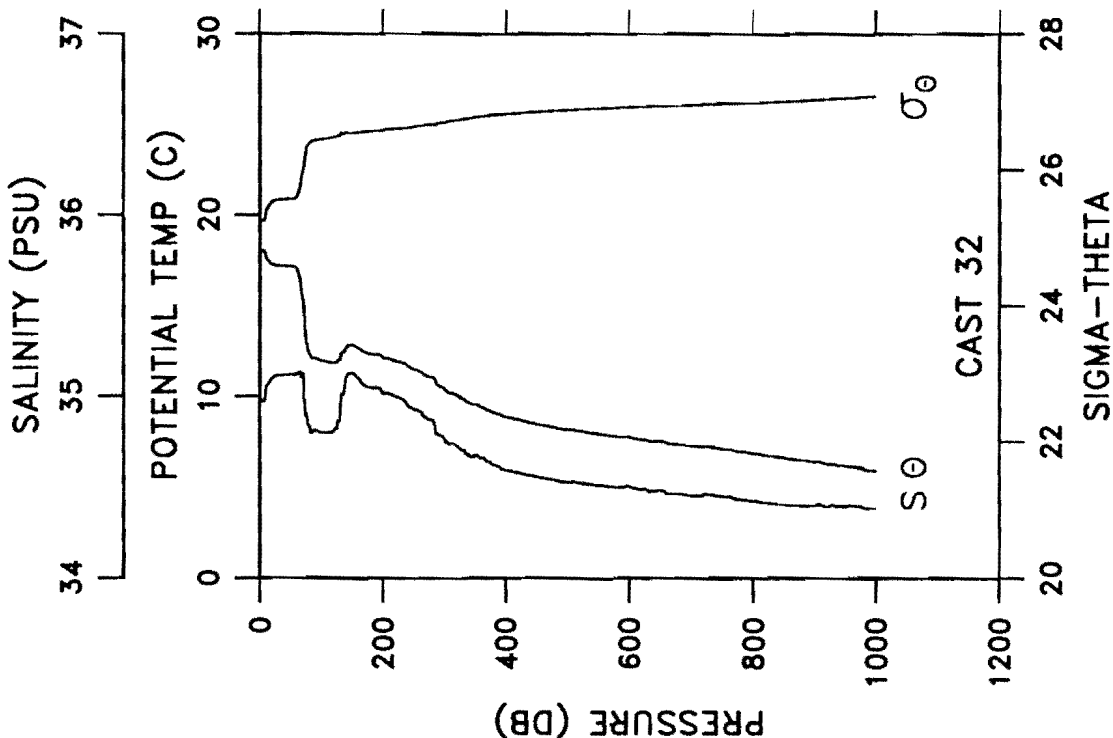


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.518	35.118	25.482	0.000
10	17.520	35.120	25.482	0.025
20	17.166	35.136	25.580	0.049
30	17.202	35.181	25.606	0.073
40	17.171	35.180	25.613	0.097
50	17.134	35.176	25.618	0.121
60	15.294	35.055	25.950	0.143
70	14.094	35.078	26.228	0.182
80	13.300	35.074	26.391	0.179
90	13.098	35.119	26.466	0.195
100	13.021	35.139	26.497	0.211
110	13.003	35.151	26.510	0.226
120	12.930	35.145	26.520	0.242
130	12.895	35.102	26.534	0.257
140	12.543	35.081	26.548	0.272
150	12.470	35.071	26.554	0.287
160	12.348	35.053	26.563	0.303
170	12.292	35.044	26.568	0.318
180	12.251	35.039	26.572	0.333
190	12.171	35.028	26.578	0.348
200	12.082	35.017	26.587	0.363
250	11.403	34.929	26.647	0.436
300	10.743	34.836	26.694	0.508
350	9.738	34.706	26.767	0.577
400	9.162	34.639	26.810	0.643
450	8.699	34.591	26.846	0.708
500	8.376	34.559	26.871	0.772
550	8.112	34.533	26.891	0.835
600	7.858	34.511	26.912	0.898
650	7.635	34.492	26.929	0.959
700	7.415	34.474	26.947	1.021
750	7.238	34.462	26.962	1.082
800	7.041	34.448	26.979	1.142
900	6.620	34.433	27.024	1.260
1000	5.974	34.413	27.092	1.374
1500	3.415	34.495	27.443	1.837
2000	2.366	34.617	27.635	2.159
2500	1.921	34.667	27.711	2.425
3000	1.558	34.730	27.789	2.658
3500	1.089	34.730	27.823	2.862
4000	0.716	34.717	27.836	3.045
4343	0.567	34.711	27.841	3.166

CAST CG1-90-MB -032 DATE 05 MAR 90 TIME 0041 GMT
LAT 41 29.4S LONG 170 43.4W

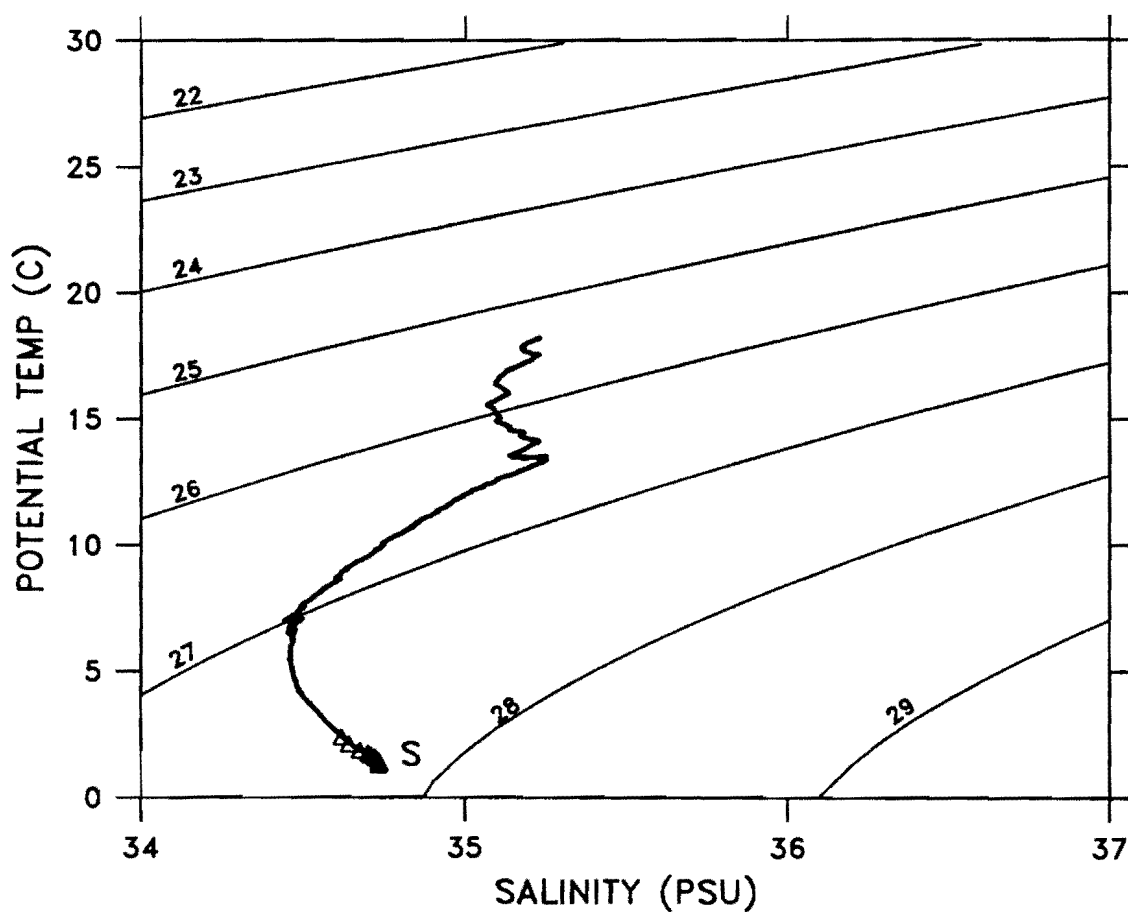


CAST CG1-90-MB -032 DATE 05 MAR 90 TIME 0041 GMT
 LAT 41 29.4S LONG 170 43.4W WEATHER 1 SEA STATE 2
 BAROMETER 14 WIND DIR 185 T SPD 14 KT VISIBILITY 8
 CLOUD 1 AMOUNT 5 DRY 18.0 WET 17.0 DEPTH 3984 M

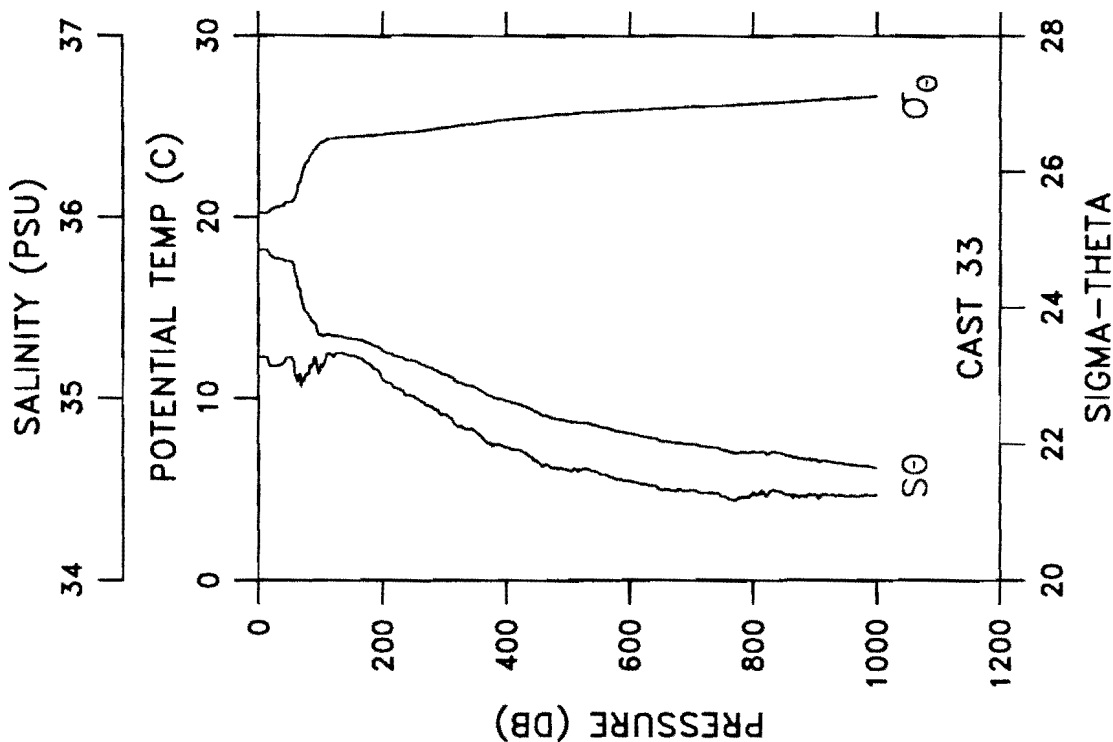


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	18.034	34.972	25.244	0.000
10	17.611	35.045	25.403	0.027
20	17.274	35.100	25.527	0.052
30	17.207	35.113	25.552	0.076
40	17.179	35.115	25.561	0.101
50	17.150	35.119	25.571	0.125
60	17.056	35.123	25.596	0.149
70	15.300	35.124	26.002	0.172
80	12.339	34.835	26.396	0.189
90	12.085	34.816	26.430	0.206
100	11.944	34.801	26.446	0.222
110	11.892	34.799	26.454	0.238
120	11.806	34.803	26.474	0.254
130	11.981	34.867	26.490	0.269
140	12.630	35.102	26.547	0.285
150	12.786	35.128	26.535	0.300
160	12.625	35.099	26.545	0.315
170	12.400	35.060	26.559	0.330
180	12.325	35.049	26.565	0.345
190	12.283	35.047	26.572	0.361
200	12.129	35.014	26.576	0.376
250	11.490	34.929	26.631	0.450
300	10.451	34.768	26.693	0.522
350	9.566	34.678	26.774	0.590
400	8.866	34.595	26.823	0.656
450	8.482	34.559	26.854	0.721
500	8.180	34.530	26.878	0.784
550	7.938	34.512	26.900	0.846
600	7.778	34.507	26.920	0.908
650	7.538	34.485	26.938	0.970
700	7.291	34.456	26.950	1.031
750	7.110	34.450	26.970	1.091
800	6.882	34.424	26.981	1.151
850	6.411	34.398	27.024	1.269
900	5.923	34.386	27.078	1.383
1000	3.510	34.501	27.439	1.852
1500	2.382	34.621	27.637	2.176
2000	1.870	34.675	27.721	2.440
2500	1.498	34.729	27.793	2.668
3000	1.077	34.729	27.822	2.829

CAST CG1-90-MB -033 DATE 05 MAR 90 TIME 0554 GMT
LAT 41 58.9S LONG 170 59.0W

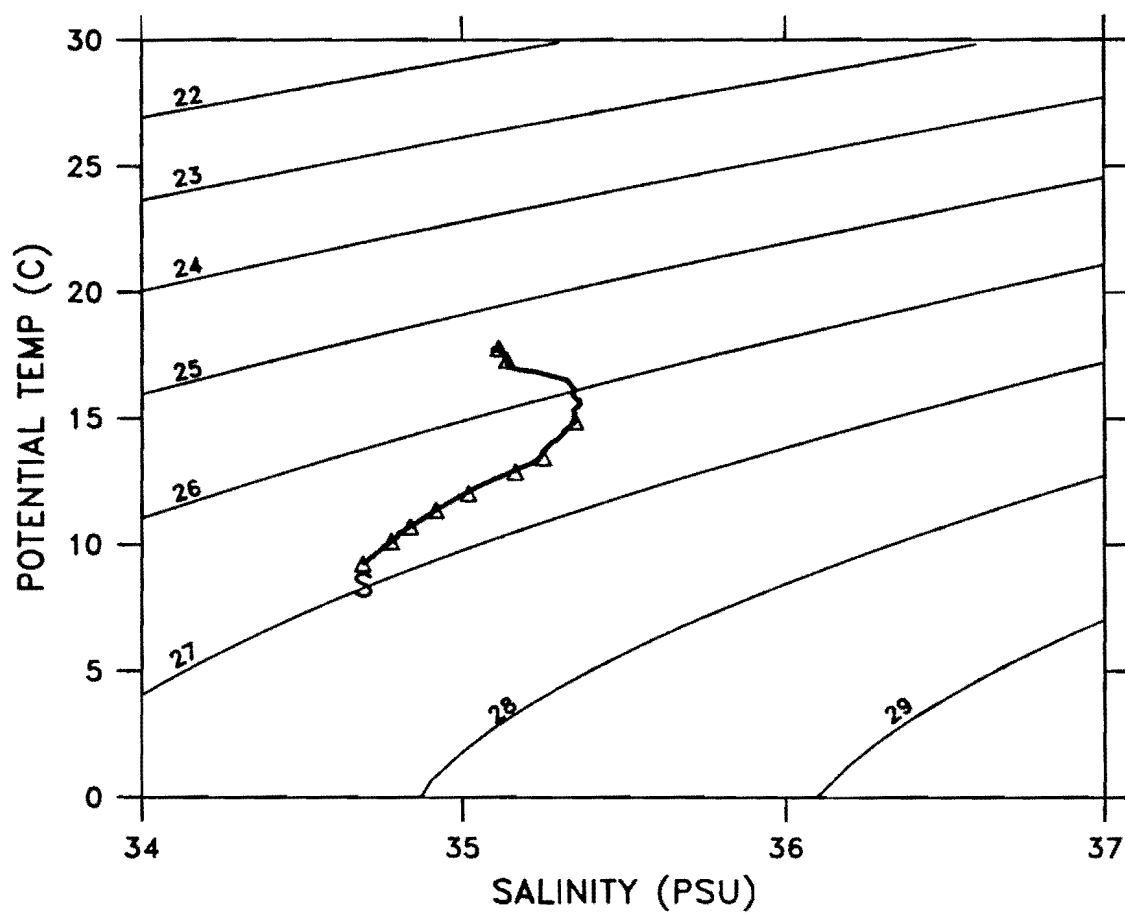


CAST CG1-90-MB -033 DATE 05 MAR 90 TIME 0554 GMT
 LAT 41 58.9S LONG 170 59.0W WEATHER 1 SEA STATE 4
 BAROMETER 17 WIND DIR 157 T SPD 18 KT VISIBILITY 6
 CLOUD 5 AMOUNT 6 DRY 16.5 WET 14.0 DEPTH 2974 M

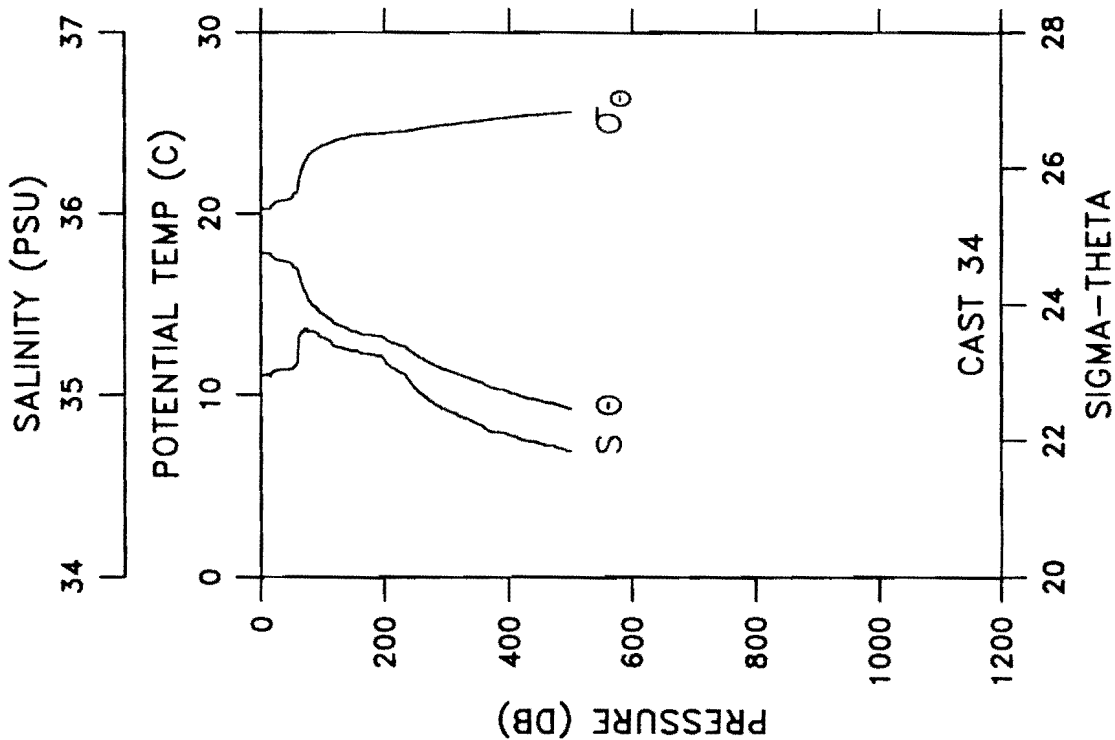


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	18.197	35.227	25.398	0.000
10	18.201	35.228	25.398	0.026
20	17.874	35.175	25.438	0.051
30	17.712	35.178	25.480	0.077
40	17.661	35.191	25.503	0.101
50	17.568	35.226	25.552	0.126
60	16.908	35.127	25.635	0.150
70	15.420	35.088	25.947	0.172
80	14.673	35.137	26.150	0.192
90	14.168	35.220	26.322	0.210
100	13.484	35.155	26.415	0.227
110	13.522	35.240	26.473	0.243
120	13.474	35.239	26.482	0.258
130	13.442	35.250	26.497	0.274
140	13.364	35.246	26.511	0.290
150	13.295	35.235	26.516	0.305
160	13.246	35.226	26.519	0.321
170	13.156	35.205	26.521	0.336
180	13.039	35.186	26.530	0.352
190	12.883	35.159	26.540	0.367
200	12.645	35.107	26.547	0.382
250	12.085	35.013	26.583	0.458
300	11.323	34.914	26.650	0.533
350	10.634	34.823	26.704	0.604
400	9.869	34.731	26.765	0.674
450	9.245	34.652	26.806	0.741
500	8.756	34.606	26.849	0.806
550	8.491	34.590	26.878	0.870
600	8.071	34.544	26.905	0.933
650	7.675	34.499	26.929	0.996
700	7.496	34.486	26.952	1.057
750	7.165	34.462	26.972	1.117
800	7.083	34.482	26.999	1.177
900	6.623	34.470	27.053	1.293
1000	6.168	34.467	27.110	1.405
1500	3.675	34.522	27.439	1.869
2000	2.353	34.622	27.640	2.194
2500	1.749	34.691	27.744	2.450
2876	1.295	34.734	27.811	2.651

CAST CG1-90-MB -034 DATE 05 MAR 90 TIME 1016 GMT
LAT 42 29.5S LONG 171 12.2W

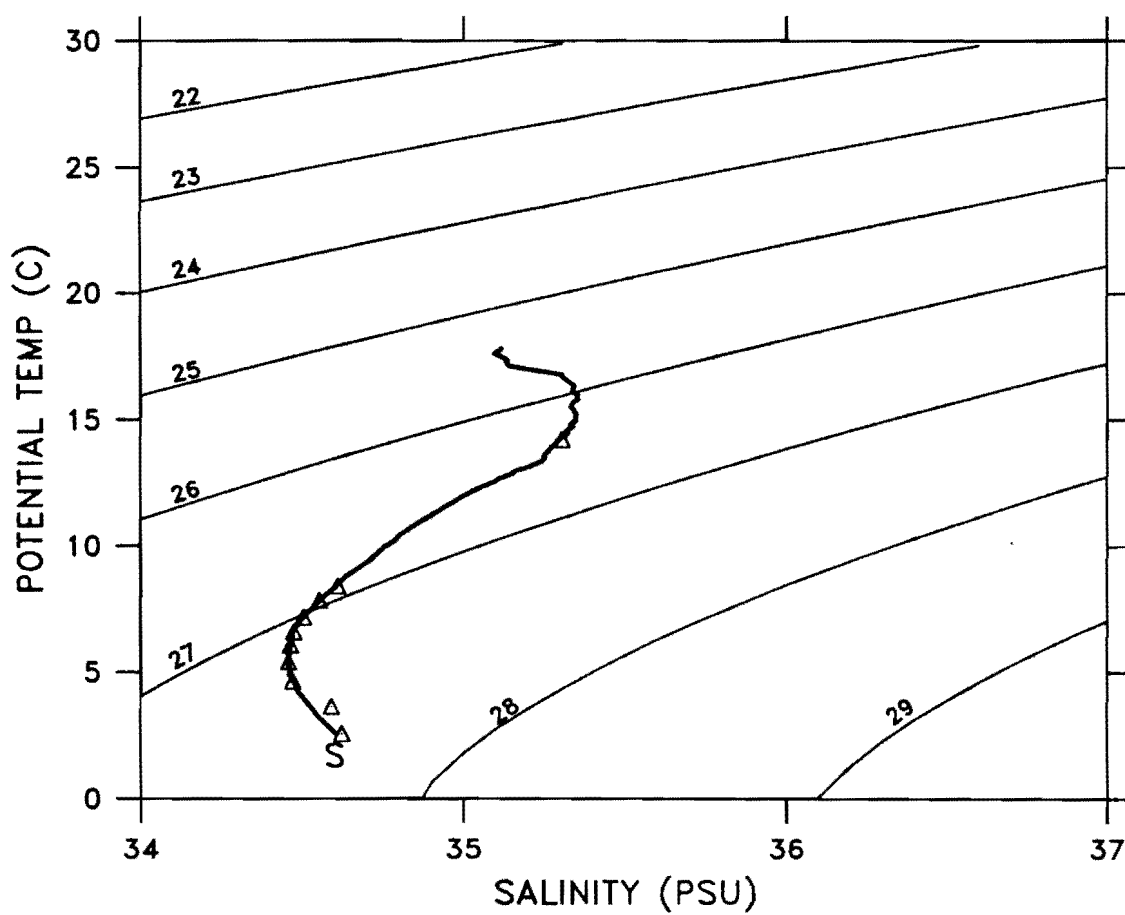


CST CG1-90-MB -034 DATE 05 MAR 90 TIME 1016 GMT
 LAT 42 29.5S LONG 171 12.2W WEATHER 1 SEA STATE 3
 BAROMETER 21 WIND DIR 161 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 16.7 WET 15.1 DEPTH 1826 M

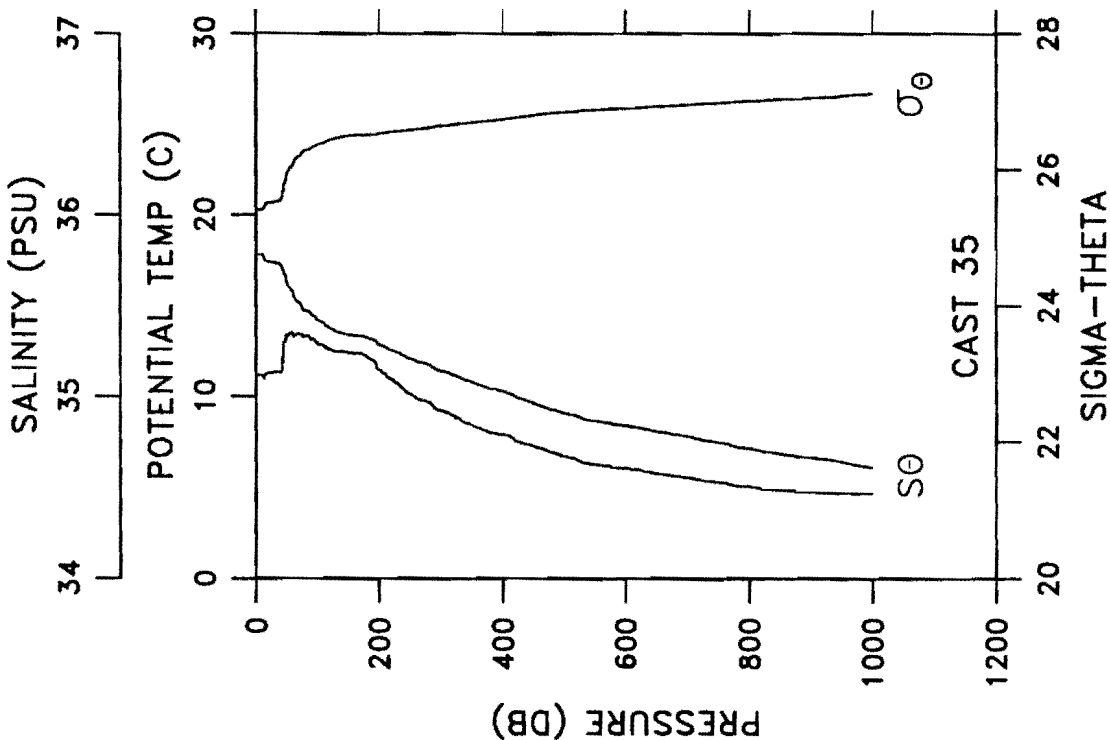


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.818	35.108	25.401	0.000
10	17.814	35.111	25.404	0.026
20	17.579	35.127	25.473	0.051
30	17.411	35.138	25.522	0.076
40	17.361	35.138	25.535	0.100
50	17.195	35.141	25.577	0.125
60	16.630	35.299	25.833	0.148
70	15.724	35.365	26.092	0.169
80	15.037	35.349	26.234	0.187
90	14.745	35.338	26.289	0.205
100	14.442	35.315	26.338	0.222
110	14.200	35.297	26.375	0.239
120	13.925	35.267	26.410	0.256
130	13.788	35.260	26.433	0.272
140	13.669	35.251	26.451	0.288
150	13.507	35.244	26.479	0.304
160	13.384	35.231	26.495	0.320
170	13.333	35.228	26.503	0.336
180	13.279	35.221	26.508	0.352
190	13.239	35.215	26.512	0.367
200	13.135	35.196	26.518	0.383
250	12.242	35.040	26.574	0.460
300	11.385	34.920	26.643	0.535
350	10.746	34.840	26.697	0.607
400	10.159	34.778	26.752	0.677
450	9.708	34.735	26.794	0.744
500	9.254	34.691	26.836	0.811
501	9.252	34.691	26.836	0.812

CAST CG1-90-MB -035 DATE 05 MAR 90 TIME 1225 GMT
LAT 42 28.7S LONG 171 12.5W

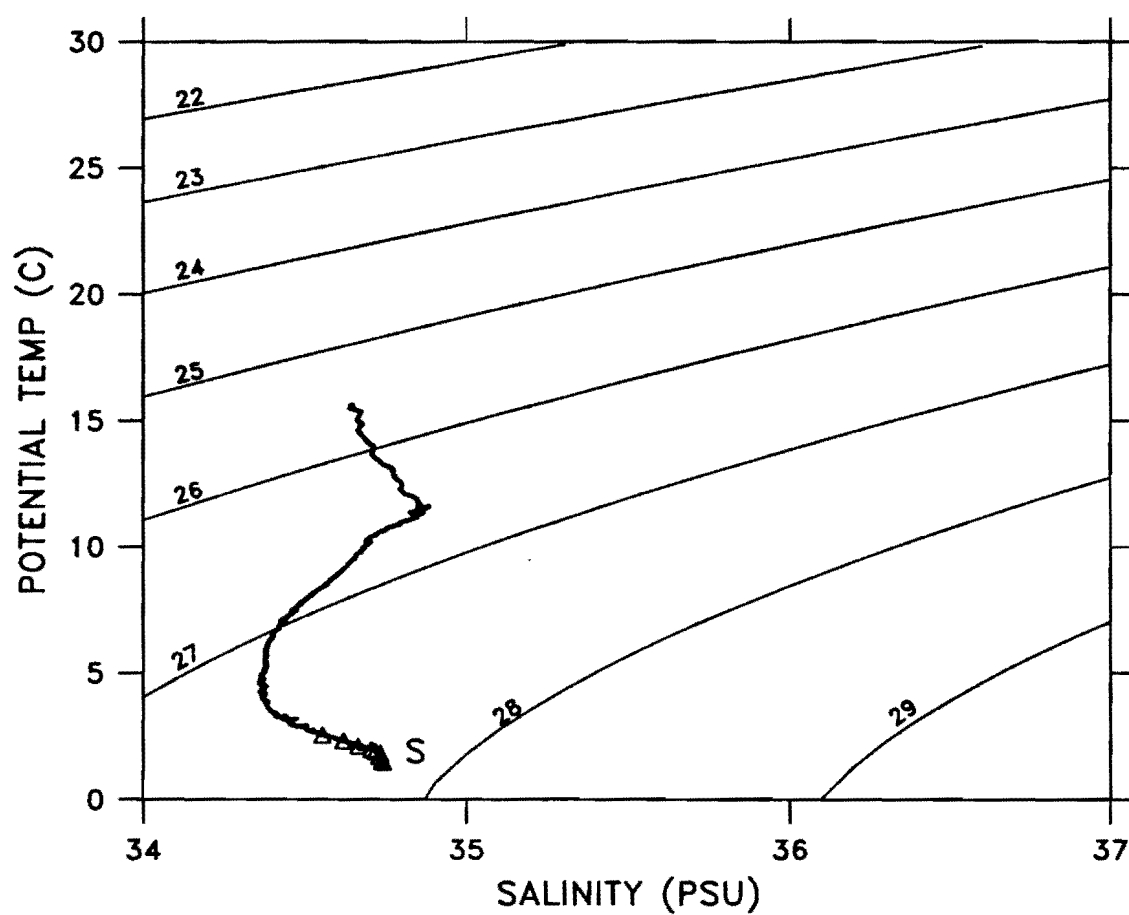


CST 061-90-MB -035 DATE 05 MAR 90 TIME 1225 GMT
 LAT 42 28.7S LONG 171 12.5W WEATHER 1 SEA STATE 3
 BAROMETER 21 WIND DIR 155 T SPD 06 KT VISIBILITY 8
 CLOUD X AMOUNT 4 DRY 16.0 WET 13.0 DEPTH 1857 M

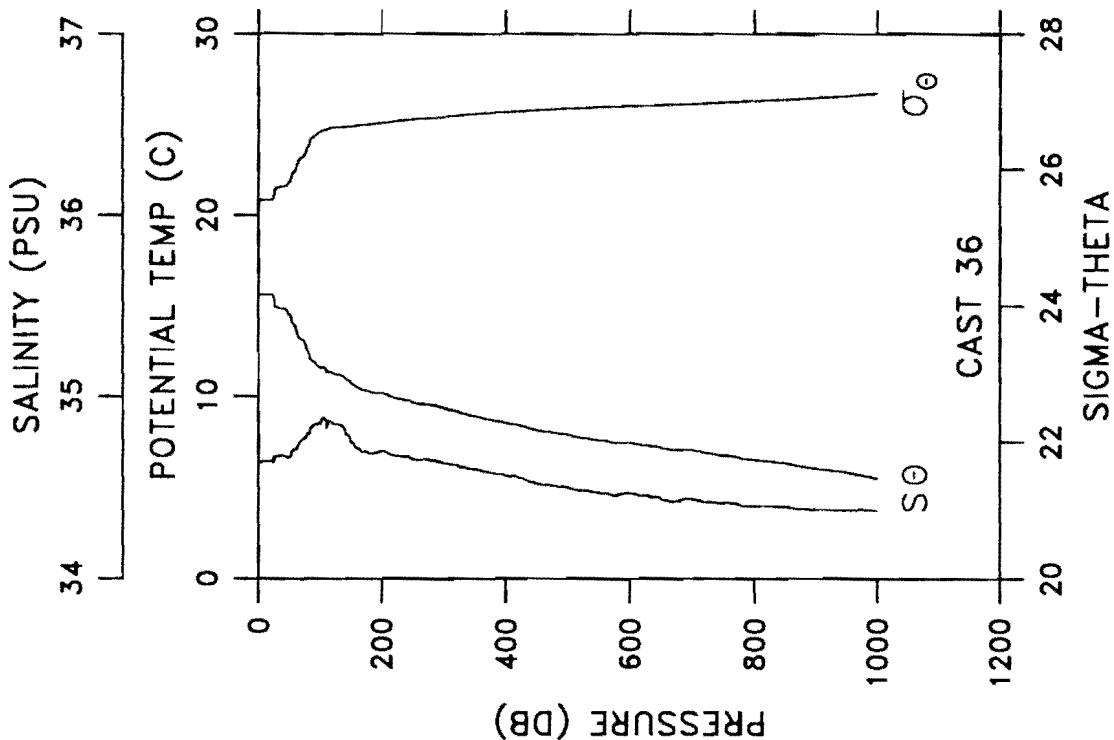


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.823	35.117	25.407	0.000
10	17.820	35.118	25.407	0.026
20	17.430	35.127	25.510	0.051
30	17.377	35.132	25.526	0.075
40	17.248	35.134	25.559	0.100
50	16.309	35.338	25.937	0.122
60	15.709	35.336	26.073	0.142
70	15.199	35.347	26.196	0.161
80	14.738	35.332	26.286	0.179
90	14.486	35.316	26.329	0.196
100	14.223	35.294	26.368	0.213
110	14.047	35.279	26.393	0.230
120	13.772	35.261	26.437	0.246
130	13.572	35.245	26.467	0.262
140	13.480	35.247	26.487	0.278
150	13.383	35.239	26.501	0.294
160	13.335	35.234	26.507	0.310
170	13.330	35.234	26.508	0.325
180	13.248	35.218	26.512	0.341
190	13.138	35.198	26.519	0.356
200	12.858	35.145	26.535	0.372
250	12.085	35.016	26.586	0.448
300	11.407	34.922	26.641	0.523
350	10.796	34.844	26.692	0.595
400	10.279	34.792	26.742	0.666
450	9.632	34.726	26.801	0.734
500	9.085	34.671	26.847	0.800
550	8.663	34.625	26.878	0.864
600	8.398	34.606	26.904	0.927
650	8.065	34.575	26.930	0.990
700	7.811	34.554	26.952	1.051
750	7.459	34.527	26.982	1.112
800	7.152	34.505	27.008	1.171
900	6.627	34.473	27.055	1.286
1000	6.090	34.464	27.118	1.398
1500	3.653	34.523	27.442	1.855
1843	2.565	34.604	27.608	2.086

CAST CG1-90-MB -036 DATE 05 MAR 90 TIME 1902 GMT
LAT 43 30.1S LONG 170 51.2W

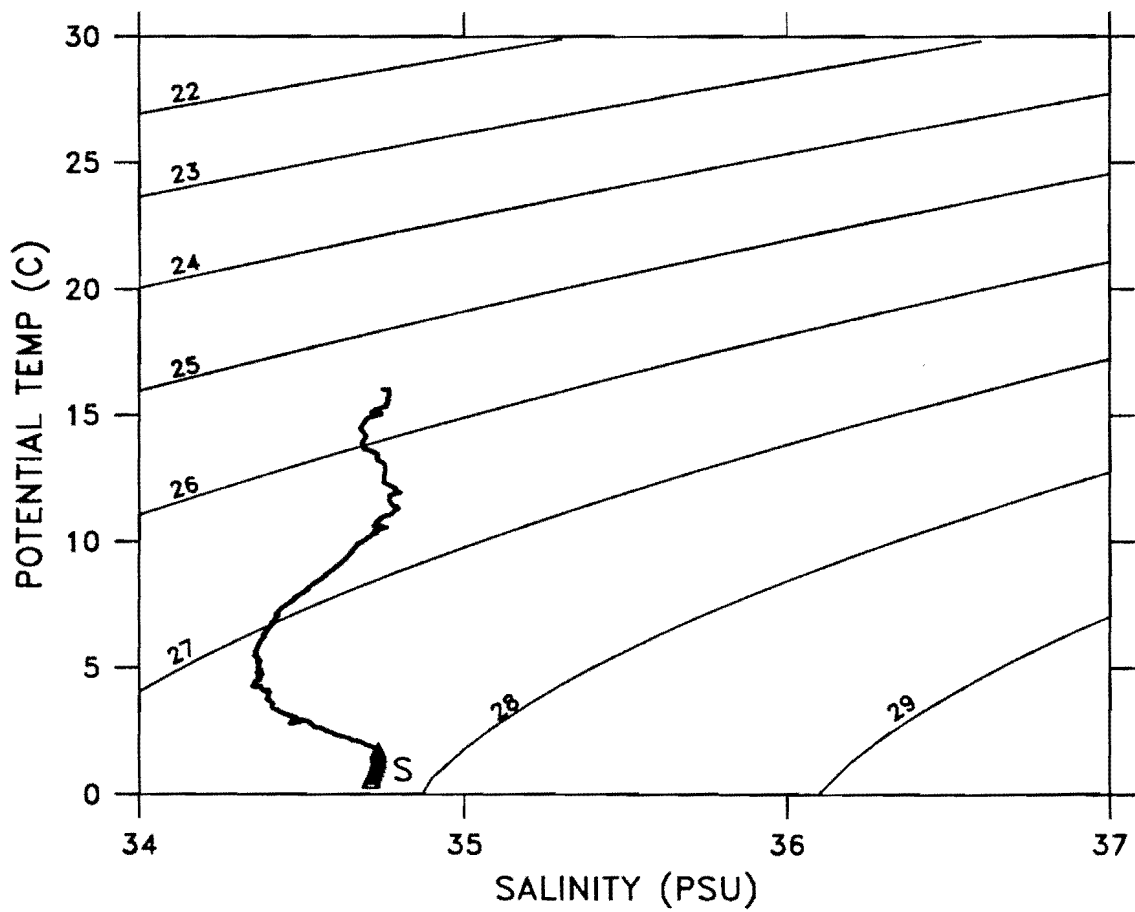


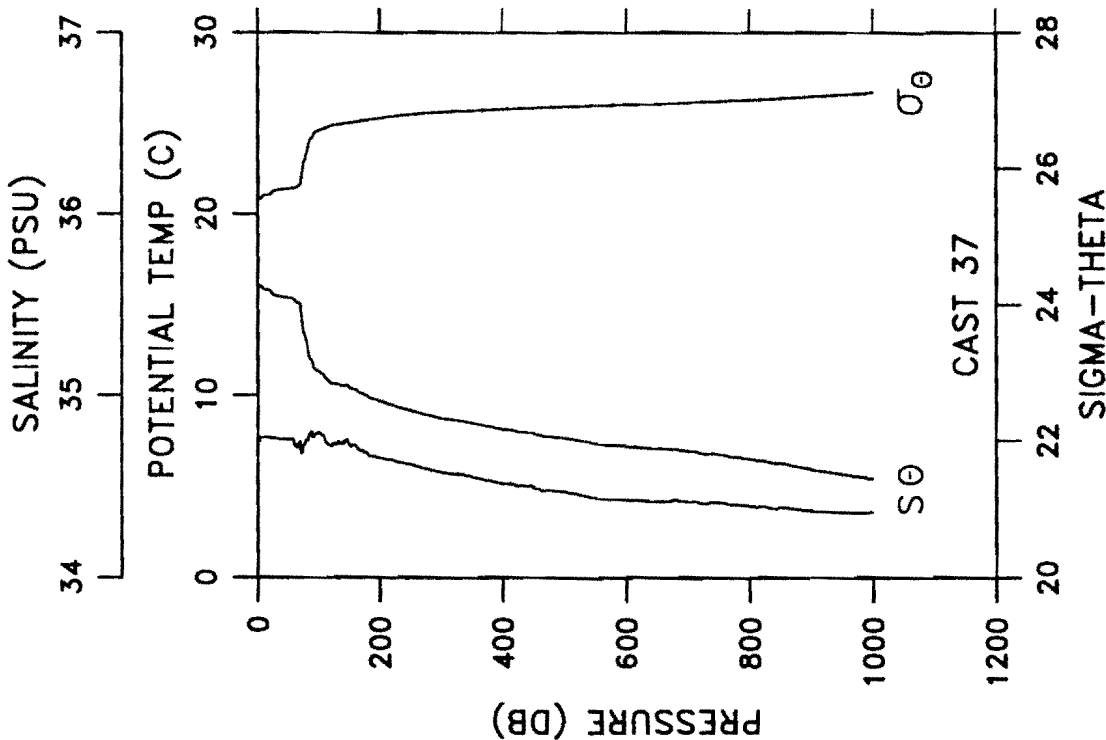
CAST CG1-90-MB -036 DATE 05 MAR 90 TIME 1902 GMT
 LAT 43 30.1S LONG 170 51.2W WEATHER 1 SEA STATE 4
 BAROMETER 24 WIND DIR 097 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 15.9 WET 13.9 DEPTH 2904 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	15.611	34.639	25.559	0.000
10	15.624	34.644	25.560	0.024
20	15.617	34.645	25.562	0.048
30	14.921	34.671	25.737	0.072
40	14.856	34.674	25.753	0.094
50	14.493	34.666	25.825	0.117
60	13.793	34.706	26.004	0.137
70	13.151	34.759	26.177	0.156
80	12.493	34.796	26.336	0.174
90	11.893	34.847	26.491	0.190
100	11.565	34.848	26.554	0.206
110	11.364	34.823	26.572	0.220
120	11.279	34.852	26.610	0.235
130	11.183	34.845	26.622	0.249
140	11.073	34.823	26.625	0.264
150	10.743	34.748	26.626	0.278
160	10.496	34.715	26.644	0.292
170	10.329	34.697	26.659	0.307
180	10.261	34.686	26.663	0.321
190	10.182	34.690	26.679	0.335
200	10.183	34.700	26.687	0.349
250	9.684	34.656	26.737	0.417
300	9.363	34.633	26.772	0.484
350	8.914	34.600	26.819	0.550
400	8.555	34.566	26.849	0.614
450	8.152	34.522	26.876	0.677
500	7.909	34.501	26.895	0.739
550	7.601	34.470	26.917	0.801
600	7.465	34.470	26.936	0.862
650	7.186	34.438	26.950	0.922
700	7.059	34.434	26.965	0.982
750	6.758	34.413	26.990	1.041
800	6.518	34.398	27.010	1.100
900	6.049	34.382	27.058	1.214
1000	5.510	34.375	27.120	1.324
1500	3.133	34.459	27.441	1.775
2000	2.318	34.614	27.637	2.097
2500	1.900	34.714	27.751	2.350
2920	1.468	34.738	27.802	2.532

CAST CG1-90-MB -037 DATE 06 MAR 90 TIME 0054 GMT
LAT 43 59.1S LONG 170 41.6W

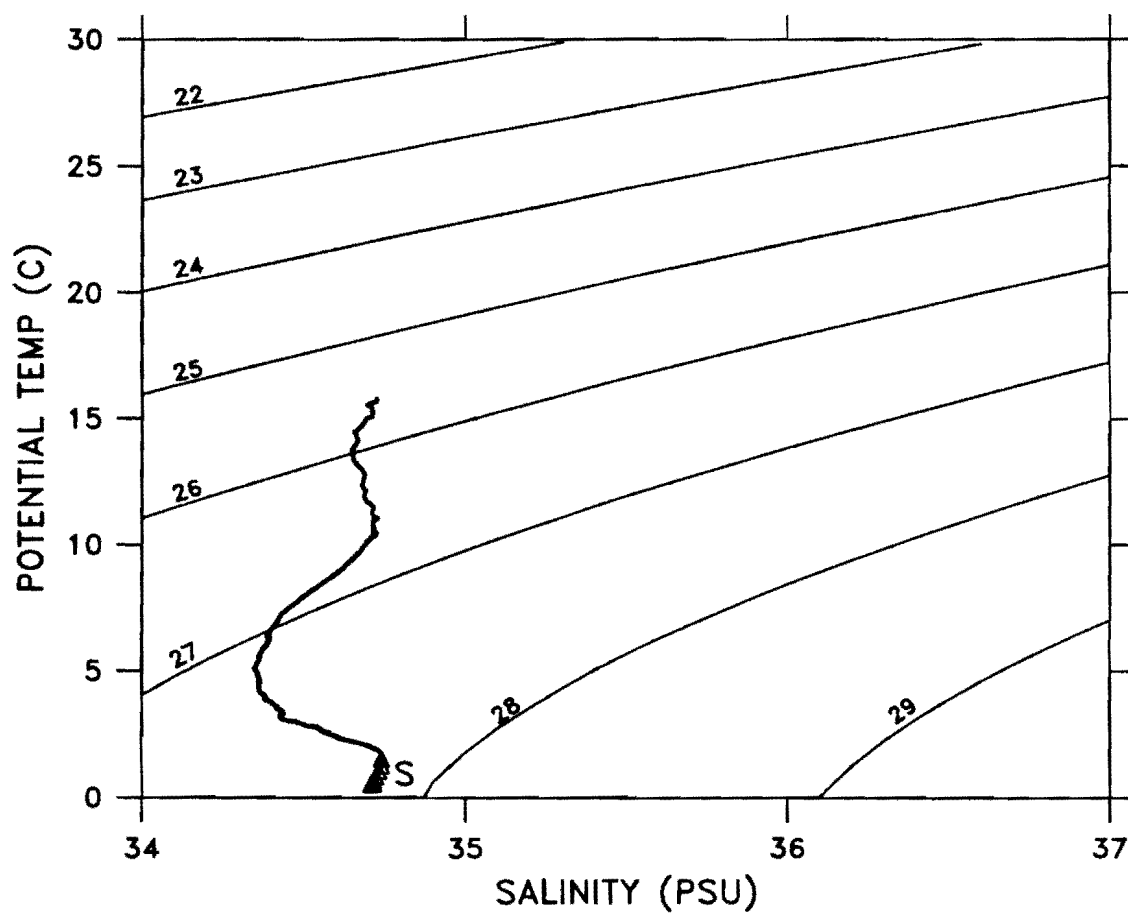




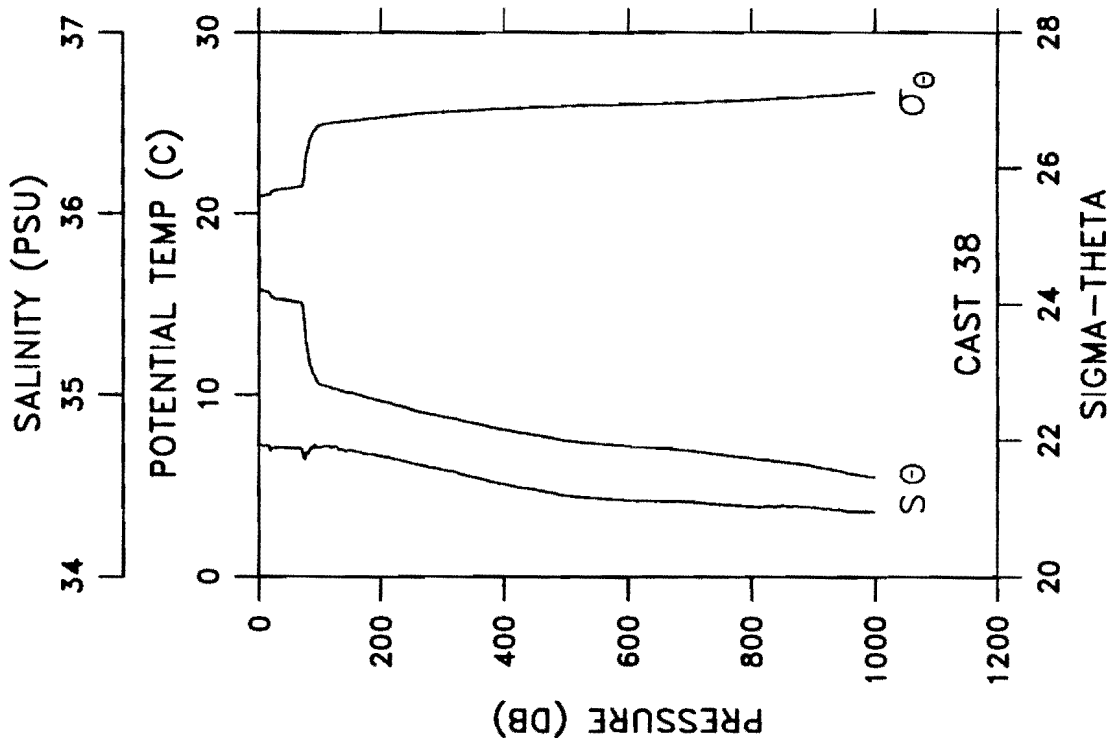
CAST CG1-90-MB -037 DATE 06 MAR 90 TIME 0054 GMT
 LAT 43 59.1S LONG 170 41.6W WEATHER 1 SEA STATE 1
 BAROMETER 26 WIND DIR 058 T SPD 08 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 16.0 WET 13.5 DEPTH 4473 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	16.045	34.749	25.545	0.000
10	15.836	34.770	25.609	0.024
20	15.772	34.767	25.621	0.048
30	15.490	34.764	25.682	0.071
40	15.418	34.760	25.695	0.094
50	15.371	34.760	25.706	0.117
60	15.241	34.729	25.711	0.140
70	14.890	34.701	25.766	0.163
80	12.947	34.755	26.214	0.183
90	11.818	34.768	26.444	0.199
100	11.315	34.797	26.560	0.214
110	11.048	34.768	26.586	0.229
120	10.667	34.725	26.622	0.244
130	10.583	34.730	26.641	0.258
140	10.500	34.733	26.657	0.272
150	10.460	34.735	26.666	0.286
160	10.319	34.728	26.685	0.300
170	10.104	34.698	26.699	0.314
180	9.973	34.684	26.710	0.328
190	9.782	34.685	26.728	0.341
200	9.668	34.656	26.740	0.355
250	9.161	34.620	26.795	0.420
300	8.732	34.577	26.830	0.484
350	8.485	34.553	26.849	0.548
400	8.129	34.515	26.874	0.610
450	7.915	34.493	26.889	0.672
500	7.656	34.471	26.909	0.734
550	7.355	34.436	26.925	0.795
600	7.198	34.426	26.939	0.855
650	7.087	34.418	26.949	0.915
700	6.943	34.415	26.966	0.975
750	6.756	34.410	26.988	1.035
800	6.505	34.391	27.006	1.093
900	5.933	34.366	27.061	1.208
1000	5.426	34.357	27.116	1.317
1500	3.182	34.446	27.426	1.772
2000	2.348	34.606	27.628	2.100
2500	1.919	34.706	27.743	2.361
3000	1.544	34.738	27.797	2.584
3500	1.059	34.730	27.824	2.784
4000	0.712	34.717	27.836	2.966
4500	0.557	34.710	27.841	3.141
4648	0.531	34.709	27.841	3.193

CAST CG1-90-MB -038 DATE 06 MAR 90 TIME 0641 GMT
LAT 44 22.2S LONG 170 19.7W

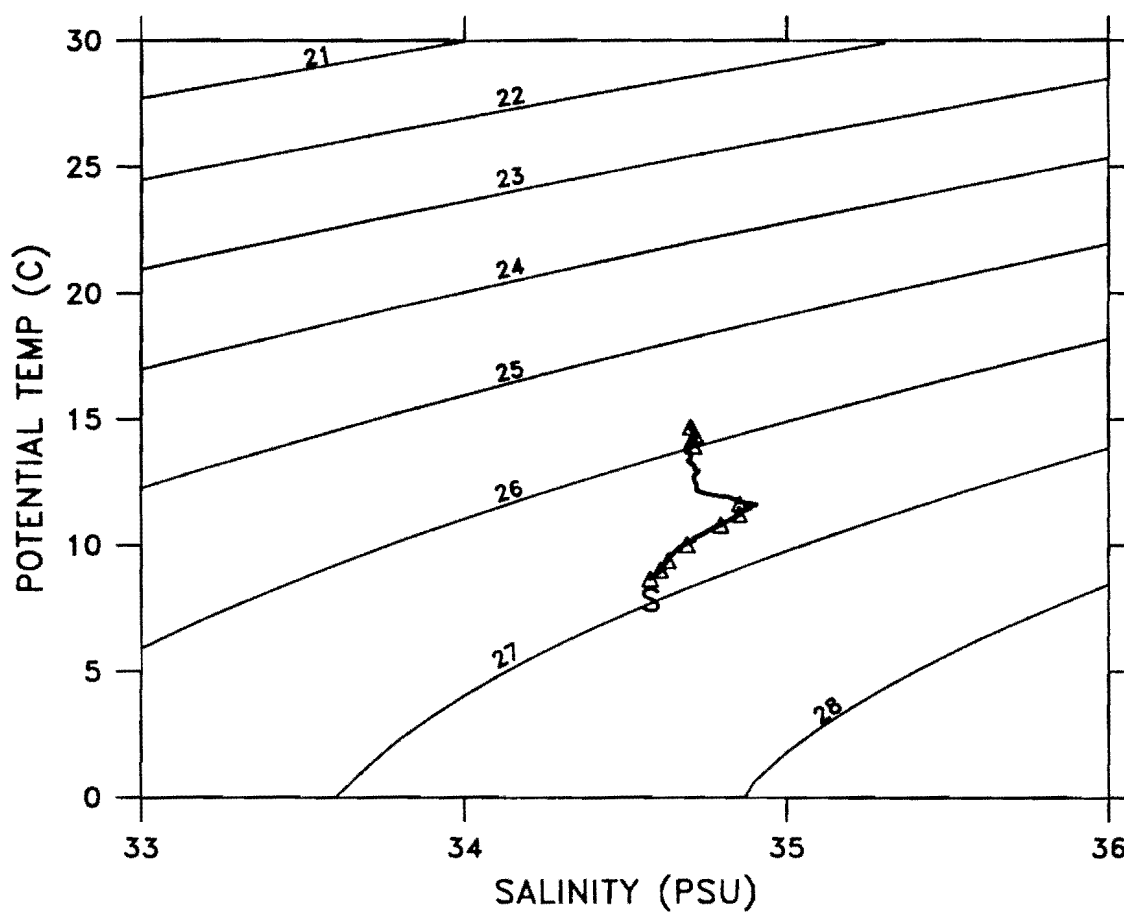


CAST 061-90-MB -038 DATE 06 MAR 90 TIME 0641 GMT
 LAT 44 22.2S LONG 170 19.7W WEATHER 1 SEA STATE 3
 BAROMETER 26 WIND DIR 043 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 16.0 WET 14.2 DEPTH 5108 M

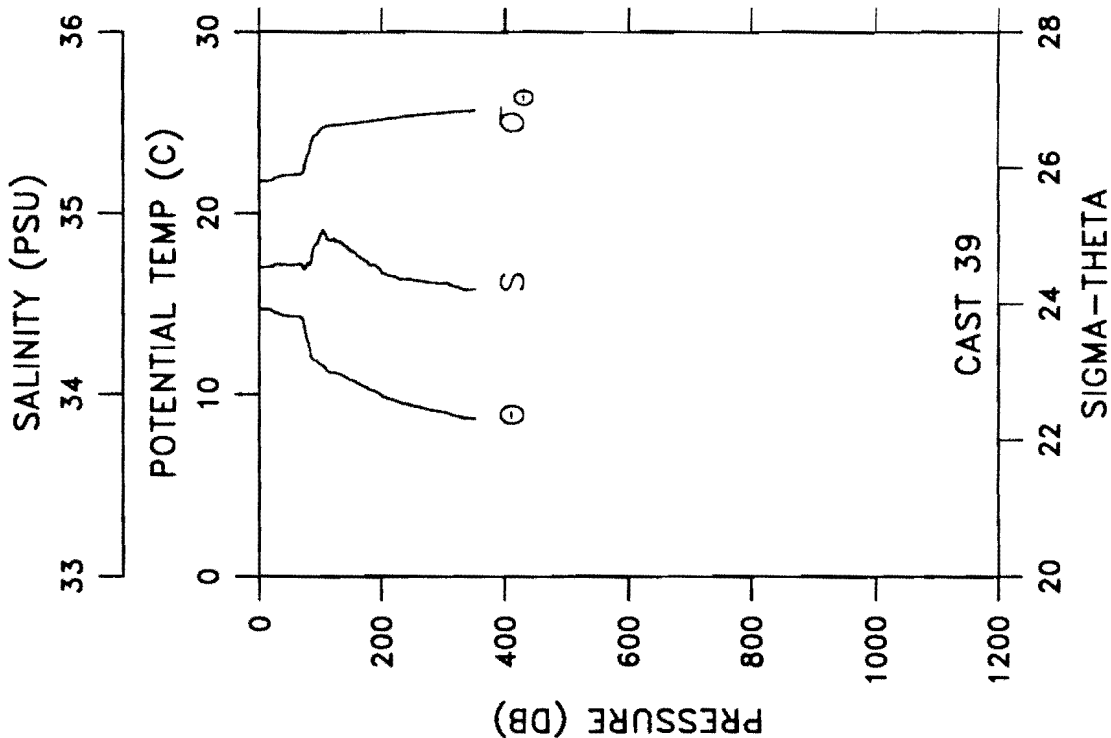


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	15.787	34.722	25.583	0.000
10	15.707	34.720	25.600	0.024
20	15.417	34.707	25.654	0.048
30	15.284	34.708	25.685	0.071
40	15.250	34.708	25.693	0.094
50	15.207	34.707	25.702	0.117
60	15.137	34.707	25.717	0.140
70	15.078	34.705	25.728	0.163
80	12.549	34.679	26.235	0.183
90	11.118	34.708	26.527	0.200
100	10.578	34.709	26.625	0.214
110	10.492	34.721	26.649	0.229
120	10.376	34.708	26.659	0.243
130	10.322	34.711	26.671	0.256
140	10.197	34.699	26.683	0.270
150	10.141	34.696	26.691	0.284
160	10.058	34.688	26.699	0.298
170	9.944	34.679	26.711	0.311
180	9.826	34.674	26.727	0.325
190	9.764	34.671	26.736	0.338
200	9.674	34.661	26.743	0.352
250	9.200	34.624	26.792	0.418
300	8.793	34.587	26.828	0.482
350	8.442	34.547	26.851	0.545
400	8.101	34.510	26.874	0.608
450	7.811	34.480	26.894	0.670
500	7.491	34.446	26.913	0.731
550	7.333	34.432	26.925	0.791
600	7.188	34.421	26.937	0.852
650	7.073	34.416	26.949	0.912
700	6.923	34.410	26.965	0.972
750	6.704	34.397	26.985	1.032
800	6.499	34.387	27.004	1.091
900	6.060	34.380	27.056	1.205
1000	5.446	34.356	27.112	1.315
1500	3.068	34.441	27.433	1.766
2000	2.340	34.606	27.628	2.093
2500	1.947	34.708	27.742	2.352
3000	1.537	34.740	27.799	2.575
3500	1.090	34.730	27.823	2.776
4000	0.778	34.719	27.834	2.962
4500	0.579	34.711	27.840	3.140
5000	0.521	34.709	27.842	3.318
5186	0.513	34.708	27.842	3.386

CAST CG1-90-MB -039 DATE 06 MAR 90 TIME 1612 GMT
LAT 45 58.6S LONG 170 00.7W

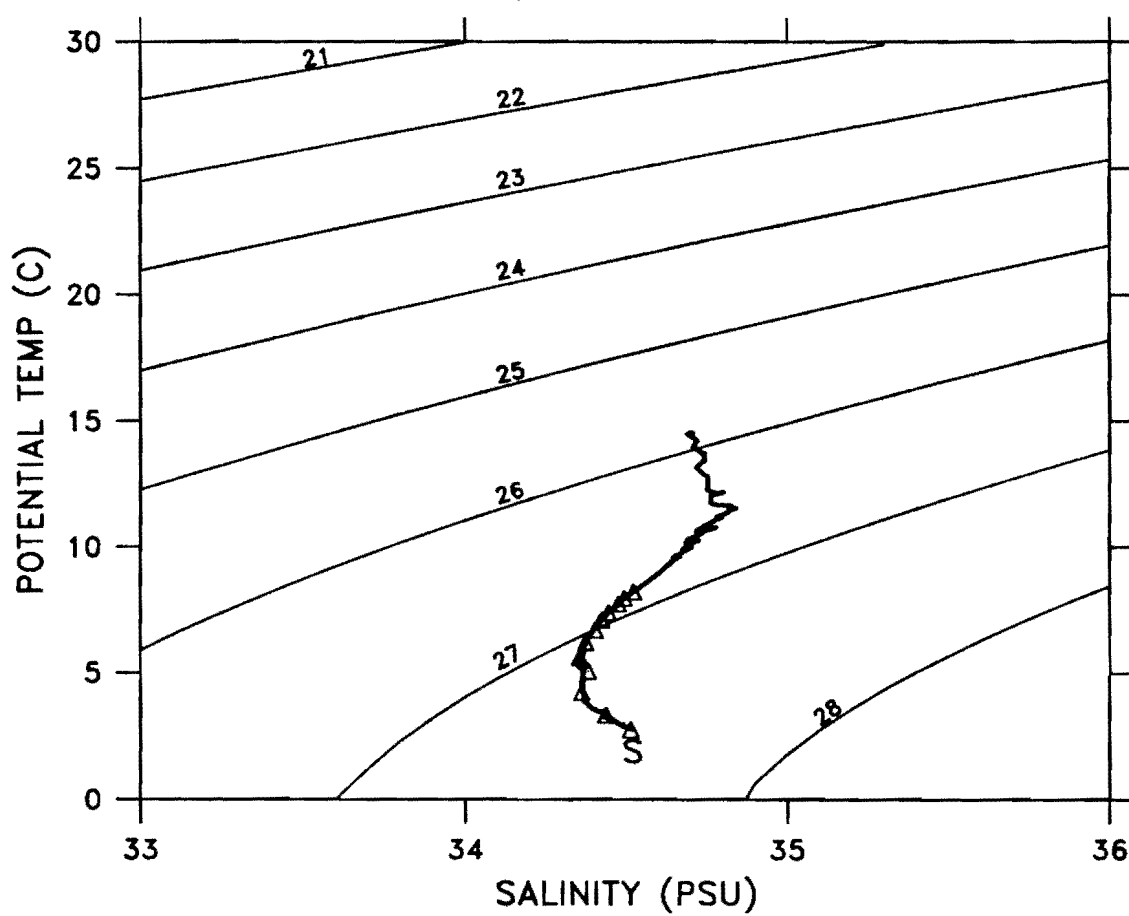


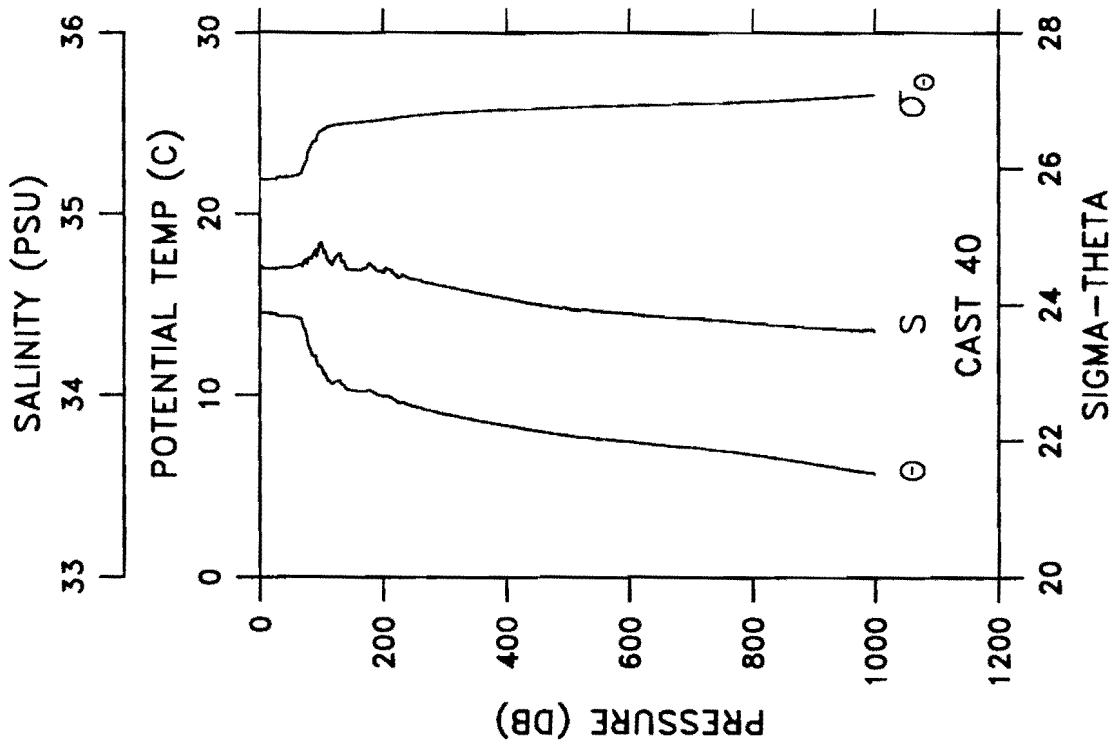
CAST CG1-90-MB -039 DATE 06 MAR 90 TIME 1612 GMT
 LAT 45 58.6S LONG 170 00.7W WEATHER 2 SEA STATE 3
 BAROMETER 25 WIND DIR 025 T SPD 08 KT VISIBILITY 6
 CLOUD 8 AMOUNT 8 DRY 14.0 WET 13.0 DEPTH 5225 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	14.704	34.701	25.807	0.000
10	14.706	34.702	25.807	0.022
20	14.647	34.711	25.826	0.044
30	14.517	34.715	25.858	0.065
40	14.379	34.715	25.888	0.086
50	14.330	34.712	25.896	0.108
60	14.319	34.716	25.901	0.129
70	14.220	34.716	25.922	0.150
80	12.900	34.724	26.200	0.169
90	11.899	34.818	26.468	0.186
100	11.655	34.886	26.566	0.201
110	11.310	34.856	26.607	0.216
120	11.203	34.853	26.625	0.230
130	11.126	34.845	26.632	0.245
140	10.968	34.819	26.641	0.259
150	10.796	34.793	26.652	0.273
160	10.640	34.769	26.661	0.287
170	10.464	34.743	26.672	0.301
180	10.268	34.716	26.685	0.315
190	10.192	34.713	26.696	0.329
200	9.979	34.678	26.705	0.343
250	9.396	34.632	26.766	0.410
300	9.048	34.615	26.810	0.476
350	8.682	34.580	26.840	0.540
351	8.680	34.580	26.840	0.541

CAST CG1-90-MB -040 DATE 06 MAR 90 TIME 1819 GMT
LAT 46 03.2S LONG 170 00.6W

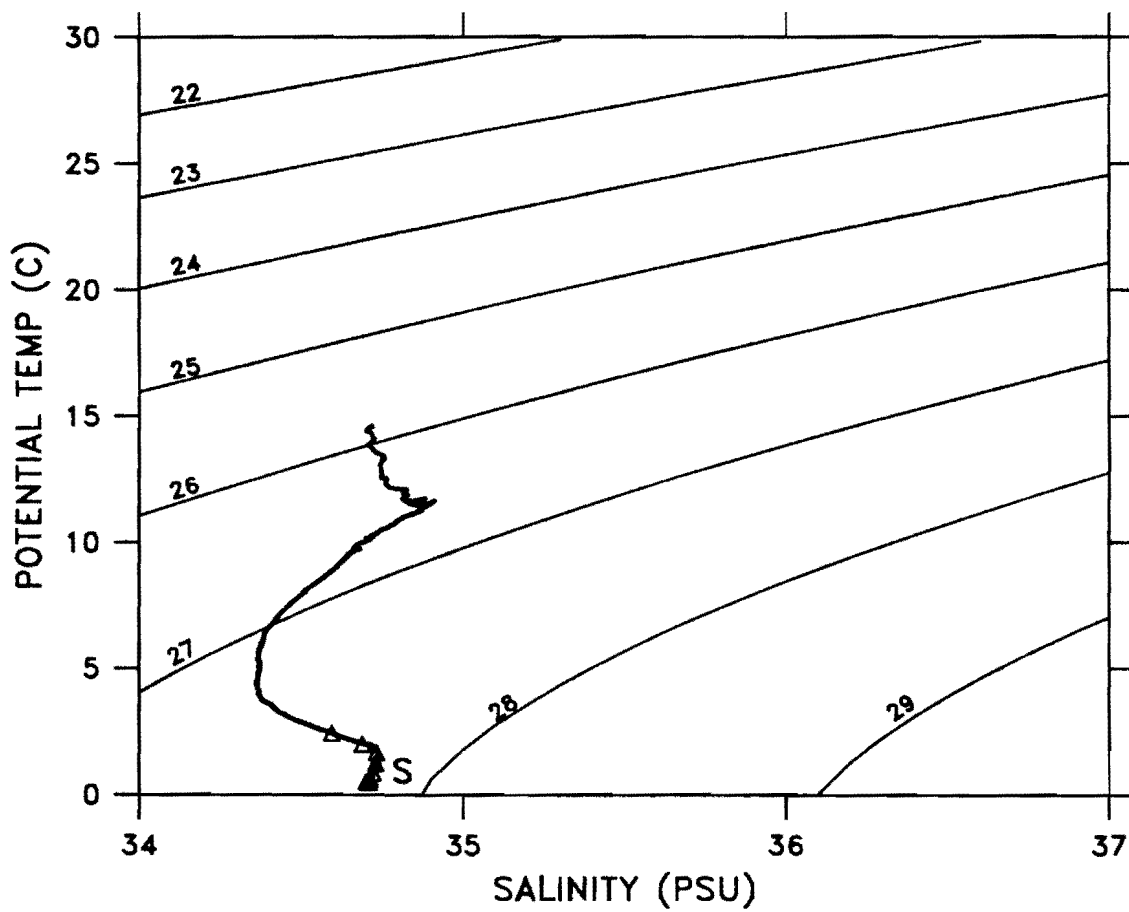




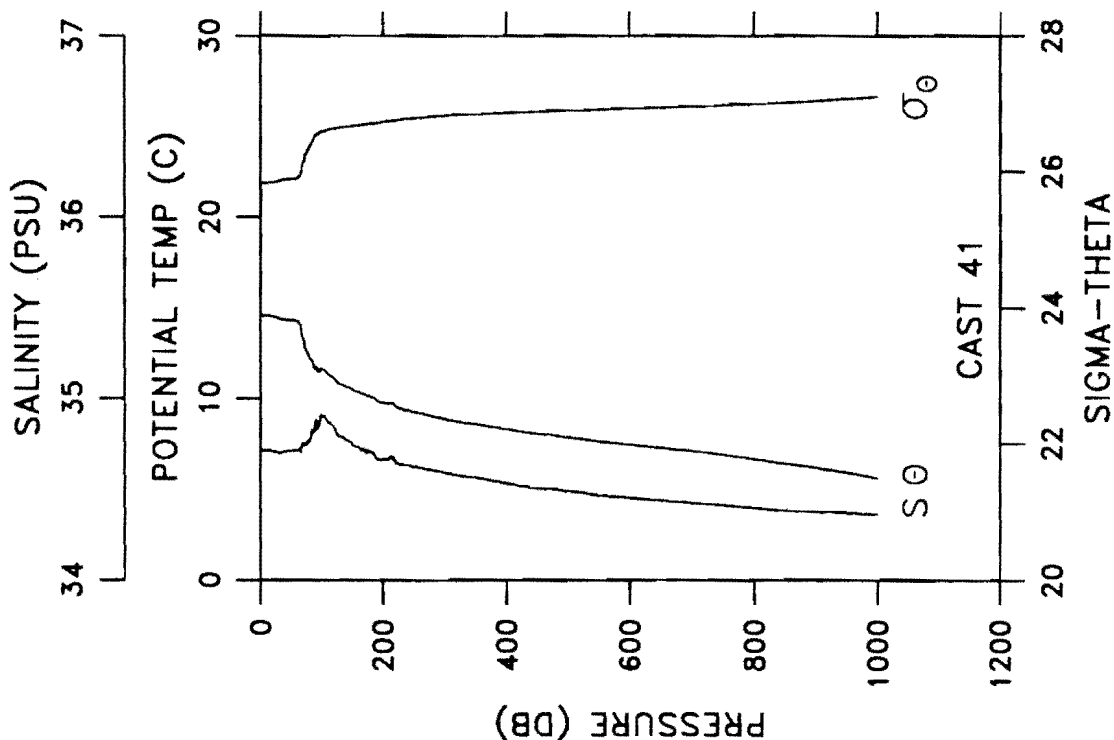
CAST CG1-90-MB -040 DATE 06 MAR 90 TIME 1819 GMT
 LAT 46 03.2S LONG 170 00.6W WEATHER 1 SEA STATE 3
 BAROMETER 25 WIND DIR 025 T SPD 20 KT VISIBILITY 7
 CLOUD 2 AMOUNT 6 DRY 14.0 WET 13.0 DEPTH 5173 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	14.536	34.707	25.848	0.000
10	14.548	34.698	25.838	0.021
20	14.537	34.697	25.840	0.043
30	14.387	34.701	25.875	0.064
40	14.372	34.704	25.880	0.086
50	14.368	34.704	25.881	0.107
60	14.321	34.712	25.897	0.128
70	13.869	34.721	26.000	0.149
80	12.708	34.758	26.264	0.188
90	12.177	34.802	26.402	0.185
100	11.552	34.842	26.551	0.201
110	10.849	34.743	26.603	0.215
120	10.663	34.743	26.636	0.230
130	10.778	34.780	26.645	0.244
140	10.365	34.703	26.658	0.258
150	10.256	34.690	26.666	0.272
160	10.204	34.687	26.673	0.286
170	10.191	34.697	26.683	0.300
180	10.248	34.719	26.690	0.314
190	10.021	34.684	26.702	0.328
200	9.926	34.674	26.711	0.341
250	9.386	34.640	26.774	0.408
300	8.964	34.601	26.812	0.473
350	8.621	34.565	26.838	0.537
400	8.327	34.534	26.859	0.601
450	8.024	34.501	26.879	0.663
500	7.788	34.479	26.896	0.725
550	7.597	34.465	26.913	0.787
600	7.460	34.453	26.924	0.848
650	7.262	34.436	26.938	0.909
700	7.124	34.427	26.950	0.970
750	6.937	34.414	26.966	1.031
800	6.726	34.401	26.984	1.090
900	6.223	34.375	27.031	1.208
1000	5.674	34.360	27.088	1.320
1500	3.334	34.443	27.408	1.786
1750	2.768	34.522	27.524	1.967

CAST CG1-90-MB -041 DATE 06 MAR 90 TIME 2207 GMT
LAT 46 02.7S LONG 170 00.1W

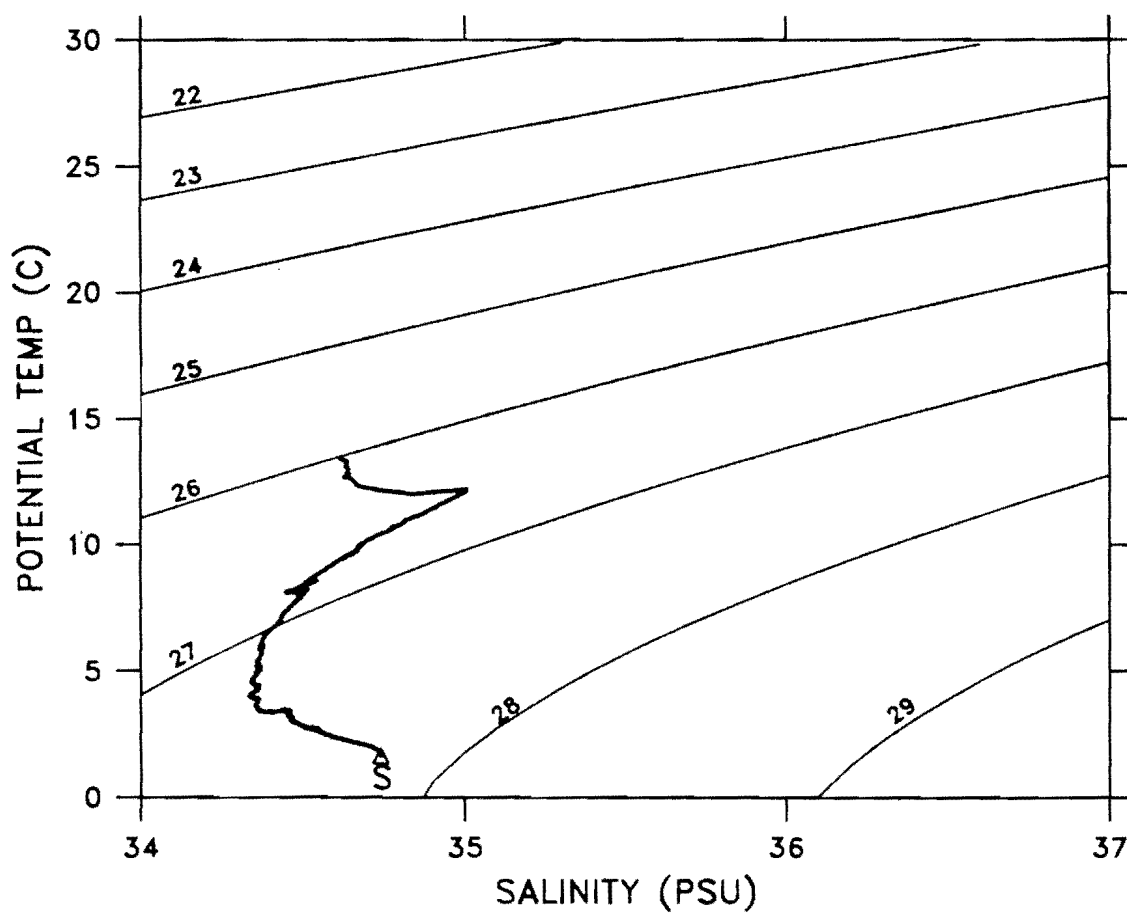


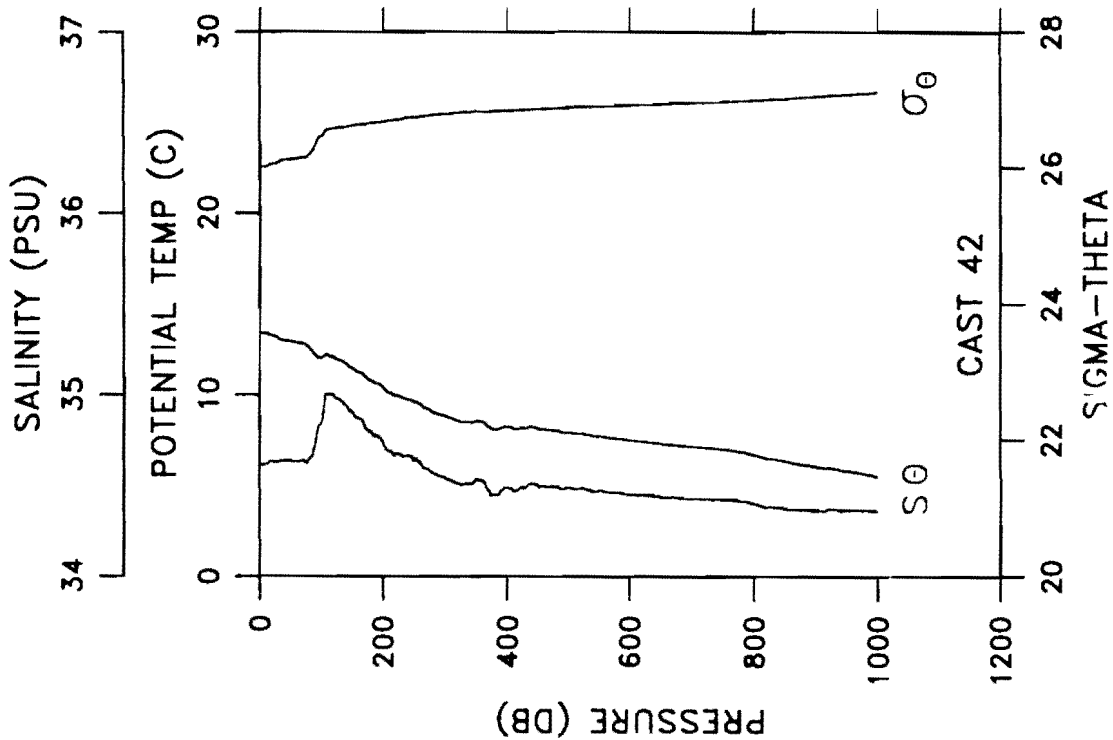
CAST CG1-90-MB -041 DATE 06 MAR 90 TIME 2207 GMT
 LAT 46 02.7S LONG 170 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 25 WIND DIR 023 T SPD 21 KT VISIBILITY 8
 CLOUD 4 AMOUNT 6 DRY 16.0 WET 14.5 DEPTH 5190 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	14.602	34.714	25.839	0.000
10	14.597	34.716	25.841	0.022
20	14.550	34.711	25.848	0.043
30	14.447	34.700	25.861	0.064
40	14.358	34.709	25.887	0.086
50	14.342	34.712	25.893	0.107
60	14.280	34.714	25.908	0.128
70	13.250	34.748	26.148	0.148
80	12.180	34.769	26.376	0.166
90	11.744	34.880	26.545	0.181
100	11.597	34.900	26.588	0.196
110	11.310	34.865	26.614	0.211
120	11.102	34.837	26.630	0.225
130	10.783	34.790	26.651	0.239
140	10.629	34.770	26.663	0.253
150	10.501	34.743	26.665	0.267
160	10.366	34.732	26.680	0.281
170	10.242	34.721	26.693	0.295
180	10.077	34.702	26.707	0.309
190	9.867	34.667	26.715	0.323
200	9.760	34.663	26.730	0.336
250	9.245	34.624	26.784	0.402
300	8.875	34.593	26.819	0.467
350	8.583	34.565	26.844	0.531
400	8.309	34.534	26.862	0.594
450	8.042	34.505	26.879	0.656
500	7.842	34.490	26.897	0.718
550	7.616	34.466	26.911	0.780
600	7.439	34.453	26.927	0.842
650	7.275	34.439	26.939	0.902
700	7.096	34.425	26.952	0.963
750	6.891	34.413	26.971	1.023
800	6.649	34.396	26.991	1.083
900	6.188	34.380	27.039	1.199
1000	5.609	34.363	27.098	1.311
1500	3.249	34.428	27.406	1.774
2000	2.438	34.593	27.610	2.114
2500	2.014	34.689	27.722	2.384
3000	1.673	34.736	27.786	2.618
3500	1.220	34.733	27.816	2.829
4000	0.845	34.721	27.831	3.022
4500	0.605	34.710	27.838	3.204
5000	0.531	34.707	27.840	3.384
5274	0.506	34.706	27.840	3.485

CAST CG1-90-MB -042 DATE 07 MAR 90 TIME 0538 GMT
LAT 47 00.4S LONG 170 00.8W

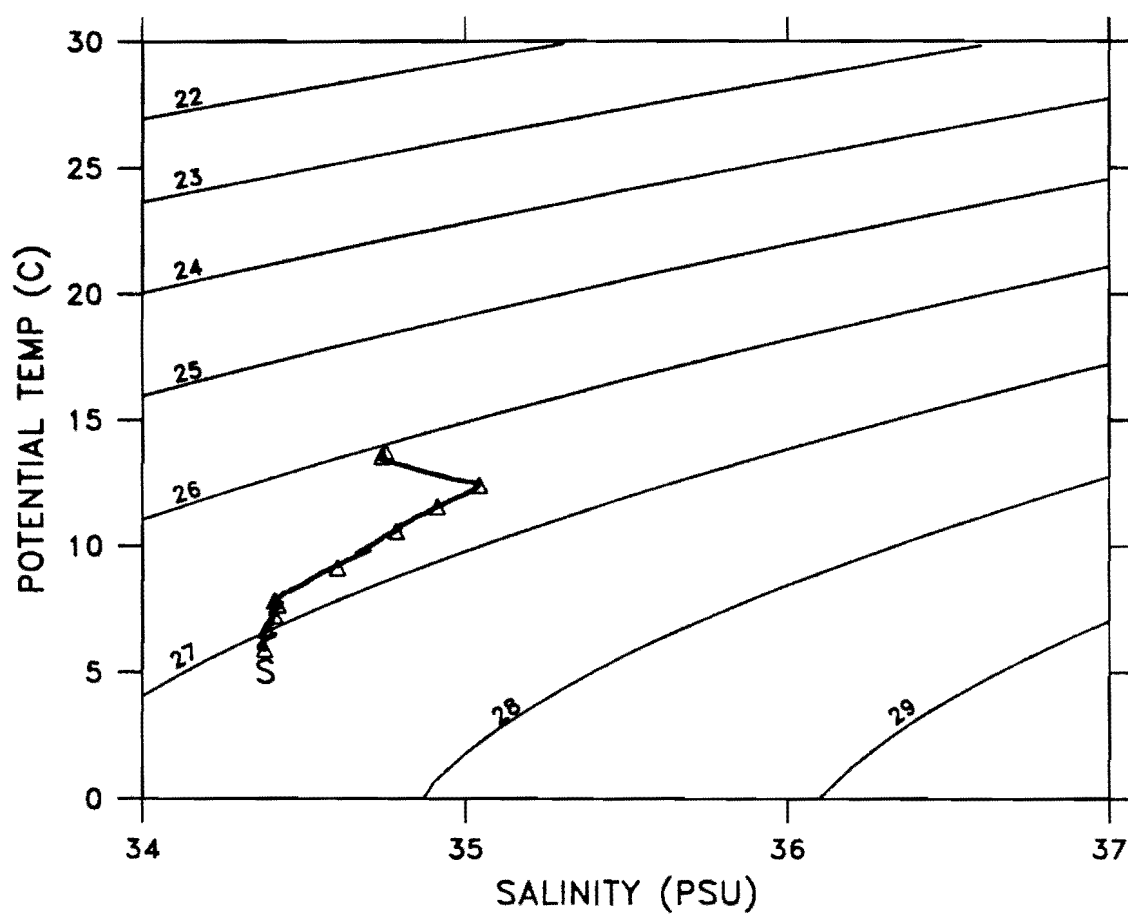


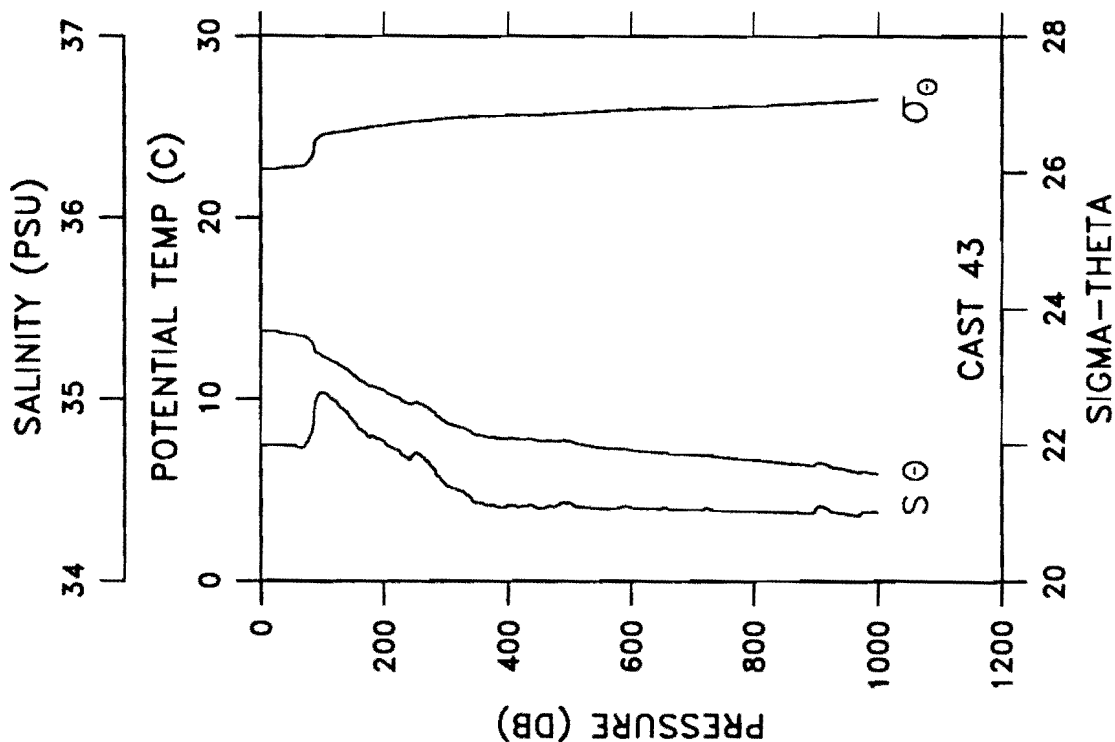


CAST CG1-90-MB -042 DATE 07 MAR 90 TIME 0538 GMT
 LAT 47 00.4S LONG 170 00.8W WEATHER 1 SEA STATE 3
 BAROMETER 22 WIND DIR 015 T SPD 14 KT VISIBILITY 7
 CLOUD 7 AMOUNT 5 DRY 14.0 WET 14.0 DEPTH 5252 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	13.392	34.613	26.015	0.000
10	13.378	34.618	26.021	0.020
20	13.270	34.631	26.053	0.039
30	13.135	34.628	26.078	0.059
40	12.977	34.638	26.117	0.078
50	12.934	34.636	26.125	0.097
60	12.864	34.632	26.136	0.116
70	12.812	34.636	26.149	0.135
80	12.587	34.648	26.203	0.153
90	12.173	34.731	26.348	0.171
100	12.020	34.845	26.465	0.187
110	12.162	35.002	26.560	0.202
120	12.046	34.994	26.576	0.217
130	11.902	34.973	26.588	0.232
140	11.682	34.939	26.602	0.247
150	11.471	34.906	26.616	0.261
160	11.230	34.870	26.632	0.276
170	11.051	34.833	26.636	0.290
180	10.791	34.798	26.657	0.304
190	10.628	34.770	26.664	0.318
200	10.431	34.738	26.673	0.332
250	9.588	34.638	26.739	0.401
300	8.834	34.540	26.785	0.468
350	8.565	34.538	26.825	0.532
400	8.245	34.489	26.836	0.597
450	8.150	34.503	26.861	0.660
500	7.921	34.490	26.886	0.723
550	7.711	34.473	26.903	0.785
600	7.489	34.453	26.919	0.847
650	7.319	34.439	26.933	0.908
700	7.136	34.430	26.951	0.969
750	6.993	34.426	26.968	1.030
800	6.895	34.402	26.989	1.089
900	6.047	34.365	27.045	1.205
1000	5.473	34.360	27.112	1.316
1500	3.278	34.453	27.423	1.773
2000	2.355	34.602	27.624	2.107
2500	2.010	34.706	27.736	2.370
2998	1.651	34.738	27.789	2.600

CAST CG1-90-MB -043 DATE 07 MAR 90 TIME 1133 GMT
LAT 48 00.3S LONG 169 59.5W

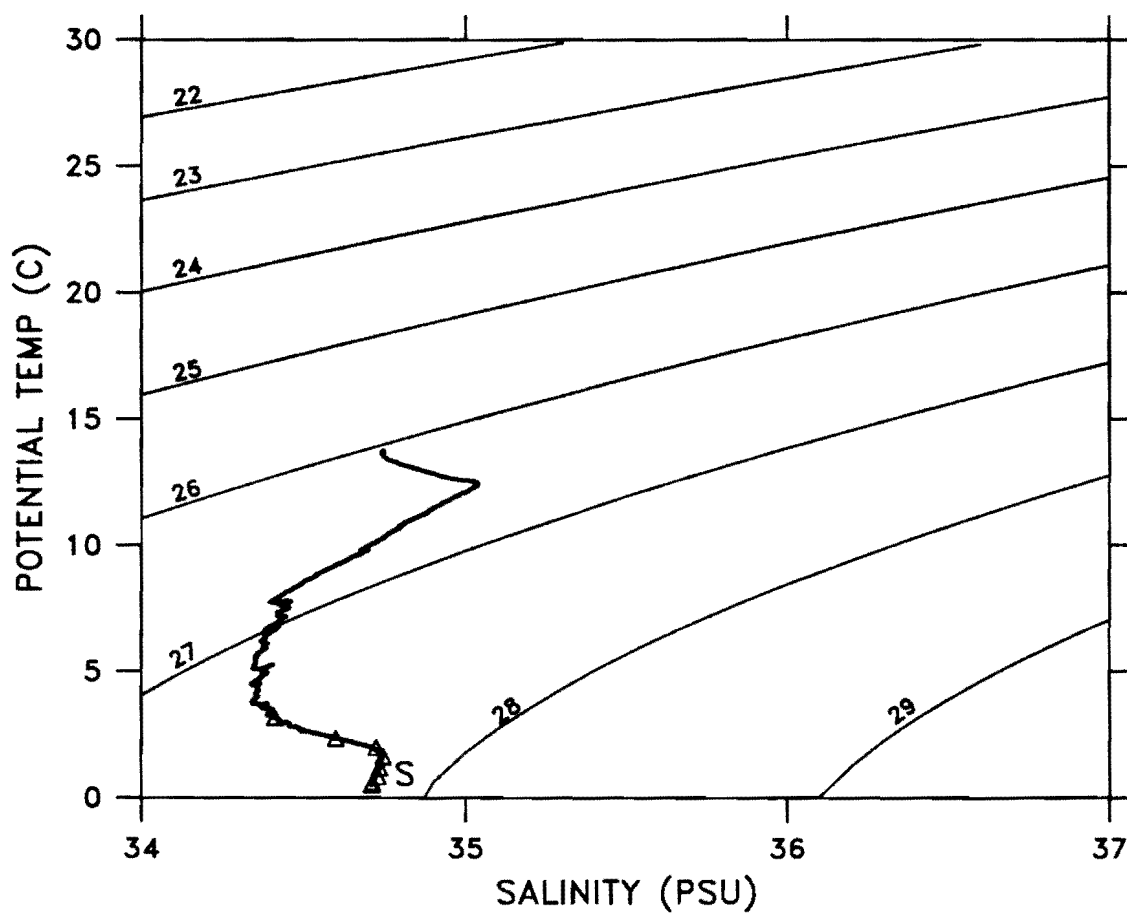




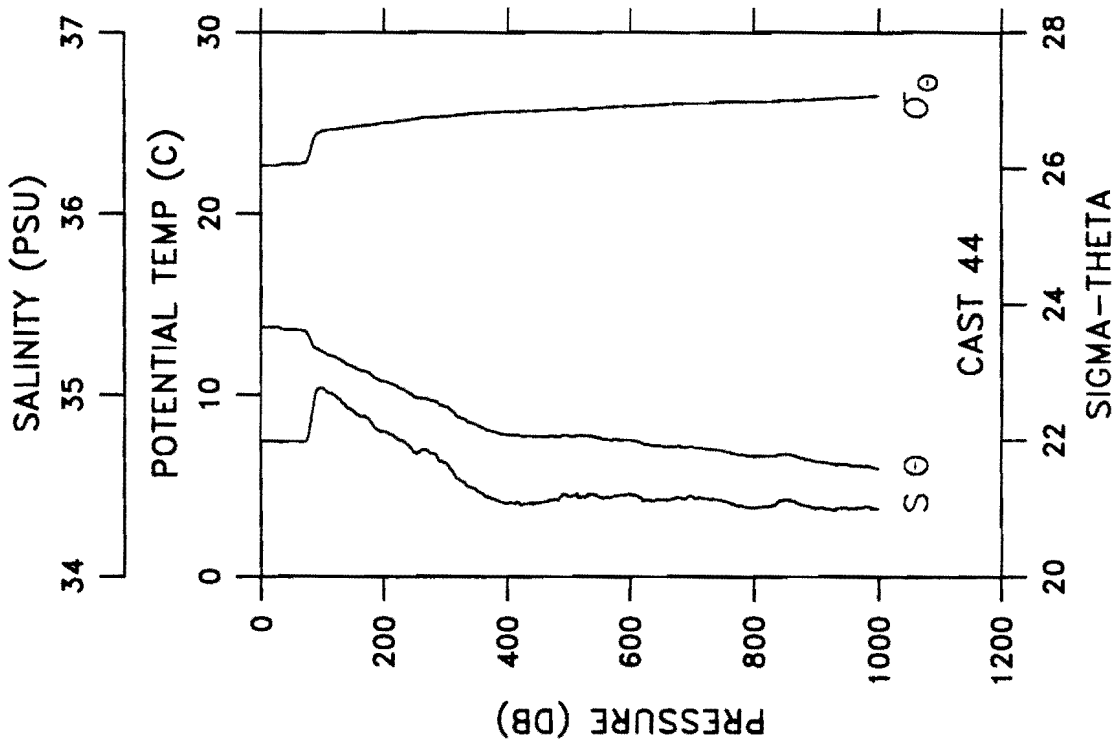
CAST CG1-90-MB -043 DATE 07 MAR 90 TIME 1133 GMT
 LAT 48 00.3S LONG 169 59.5W WEATHER 1 SEA STATE 2
 BAROMETER 23 WIND DIR 008 T SPD 14 KT VISIBILITY 8
 CLOUD 5 AMOUNT 3 DRY 14.0 WET 14.0 DEPTH 5307 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	13.736	34.745	26.046	0.000
10	13.737	34.745	26.045	0.020
20	13.736	34.745	26.046	0.039
30	13.670	34.744	26.059	0.059
40	13.619	34.744	26.069	0.078
50	13.577	34.742	26.076	0.098
60	13.516	34.734	26.082	0.117
70	13.464	34.733	26.093	0.136
80	13.213	34.800	26.195	0.155
90	12.566	34.994	26.475	0.172
100	12.349	35.034	26.549	0.188
110	12.174	35.014	26.567	0.203
120	12.009	34.991	26.581	0.217
130	11.804	34.953	26.590	0.232
140	11.632	34.931	26.605	0.247
150	11.334	34.881	26.623	0.261
160	11.026	34.833	26.641	0.276
170	10.870	34.812	26.653	0.290
180	10.710	34.800	26.672	0.304
190	10.581	34.779	26.679	0.318
200	10.492	34.770	26.688	0.332
250	9.803	34.699	26.751	0.400
300	8.710	34.525	26.793	0.467
350	8.015	34.429	26.824	0.531
400	7.839	34.415	26.838	0.595
450	7.705	34.400	26.847	0.659
500	7.700	34.430	26.871	0.722
550	7.329	34.396	26.897	0.785
600	7.199	34.404	26.922	0.846
650	7.037	34.397	26.939	0.907
700	6.933	34.394	26.951	0.968
750	6.794	34.385	26.963	1.028
800	6.658	34.382	26.979	1.088
900	6.356	34.384	27.020	1.206
1000	5.875	34.376	27.076	1.321
1000	5.875	34.376	27.076	1.321

CAST CG1-90-MB -044 DATE 07 MAR 90 TIME 1509 GMT
LAT 48 01.3S LONG 169 54.9W

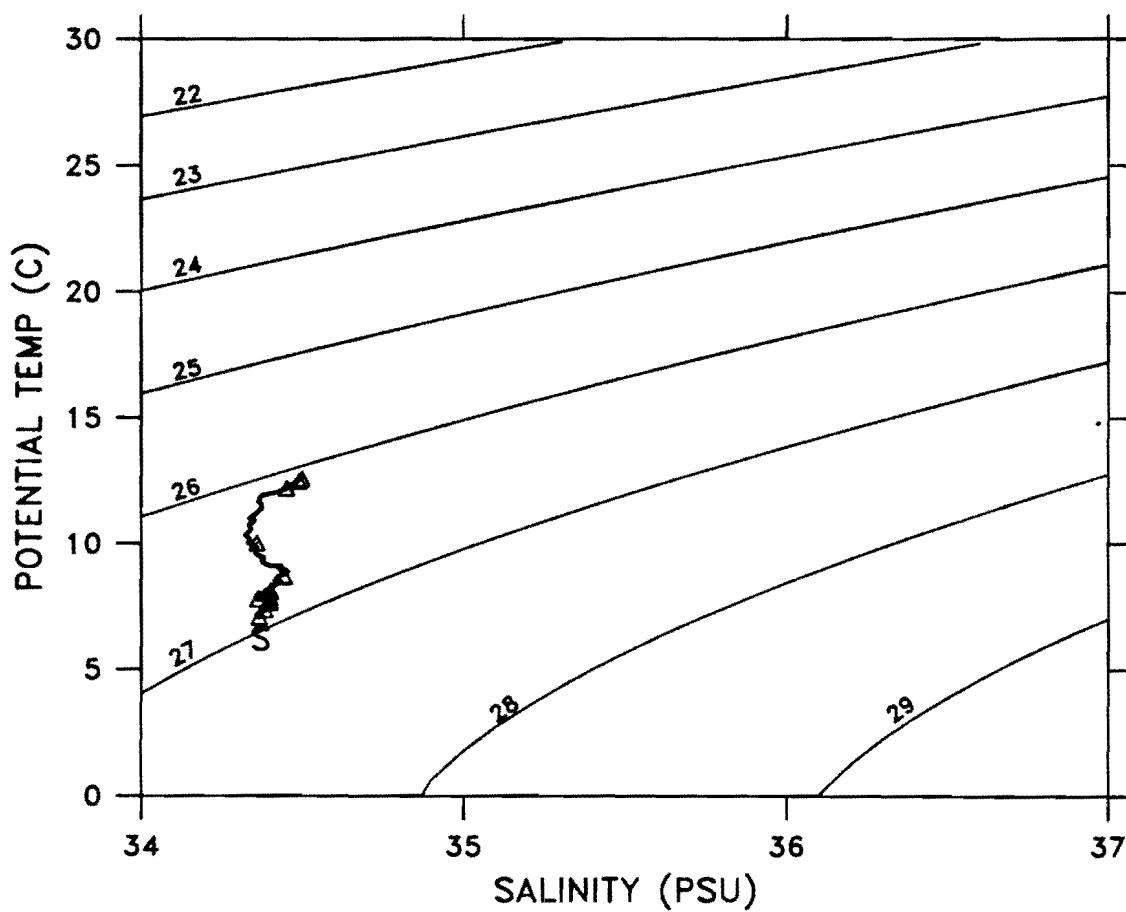


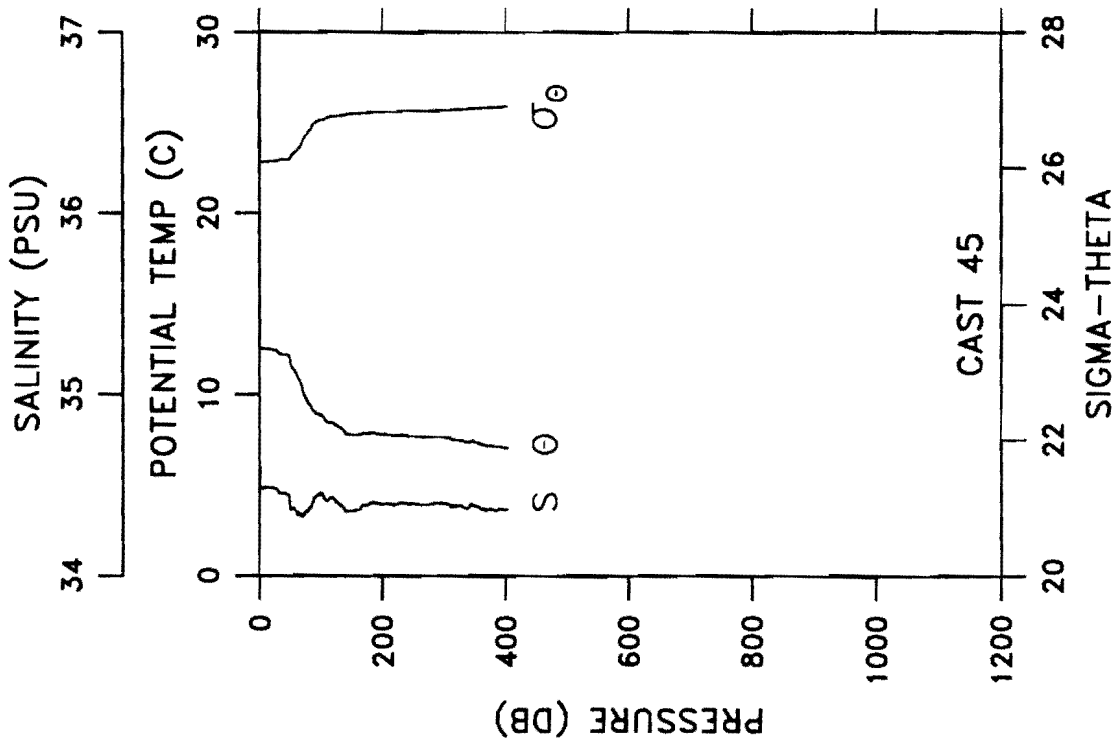
CAST CG1-90-MB -044 DATE 07 MAR 90 TIME 1509 GMT
 LAT 48 01.3S LONG 169 54.9W WEATHER 1 SEA STATE 2
 BAROMETER 21 WIND DIR 030 T SPD 08 KT VISIBILITY 7
 CLOUD 3 AMOUNT 3 DRY 13.5 WET 13.5 DEPTH 5294 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	13.740	34.746	26.046	0.000
10	13.745	34.744	26.044	0.020
20	13.734	34.745	26.046	0.039
30	13.723	34.741	26.045	0.059
40	13.624	34.742	26.066	0.078
50	13.619	34.743	26.068	0.098
60	13.614	34.743	26.069	0.117
70	13.529	34.744	26.088	0.137
80	13.042	34.842	26.262	0.155
90	12.542	35.020	26.500	0.172
100	12.348	35.035	26.550	0.187
110	12.162	35.010	26.566	0.202
120	12.074	34.996	26.572	0.217
130	11.916	34.967	26.580	0.232
140	11.662	34.927	26.597	0.246
150	11.529	34.907	26.607	0.261
160	11.378	34.885	26.617	0.276
170	11.280	34.878	26.630	0.290
180	11.082	34.845	26.641	0.304
190	10.858	34.809	26.653	0.319
200	10.740	34.798	26.666	0.333
250	9.868	34.683	26.727	0.402
300	9.380	34.626	26.767	0.470
350	8.342	34.476	26.811	0.535
400	7.811	34.404	26.834	0.600
450	7.713	34.405	26.850	0.663
500	7.754	34.444	26.874	0.727
550	7.620	34.439	26.889	0.789
600	7.516	34.454	26.916	0.851
650	7.190	34.424	26.938	0.913
700	7.151	34.440	26.957	0.973
750	6.907	34.417	26.973	1.033
800	6.622	34.379	26.981	1.093
900	6.338	34.376	27.016	1.211
1000	5.938	34.374	27.066	1.326
1500	3.178	34.405	27.394	1.799
2000	2.360	34.595	27.618	2.136
2500	1.995	34.705	27.736	2.400
3000	1.605	34.737	27.791	2.629
3500	1.197	34.733	27.817	2.836
4000	0.841	34.720	27.830	3.029
4500	0.602	34.709	27.837	3.211
5000	0.527	34.707	27.840	3.391
5205	0.513	34.706	27.840	3.466

CAST CG1-90-MB -045 DATE 08 MAR 90 TIME 0213 GMT
LAT 50 00.2S LONG 169 59.8W

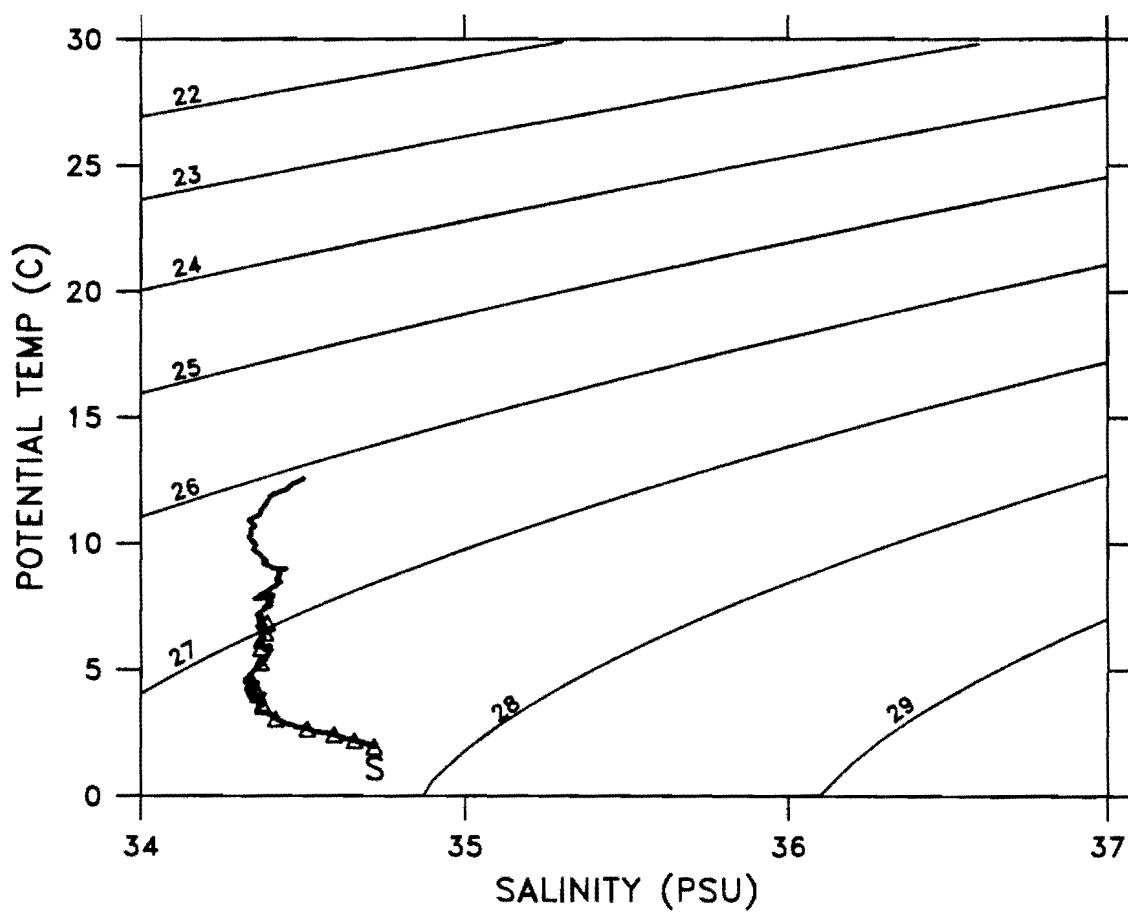




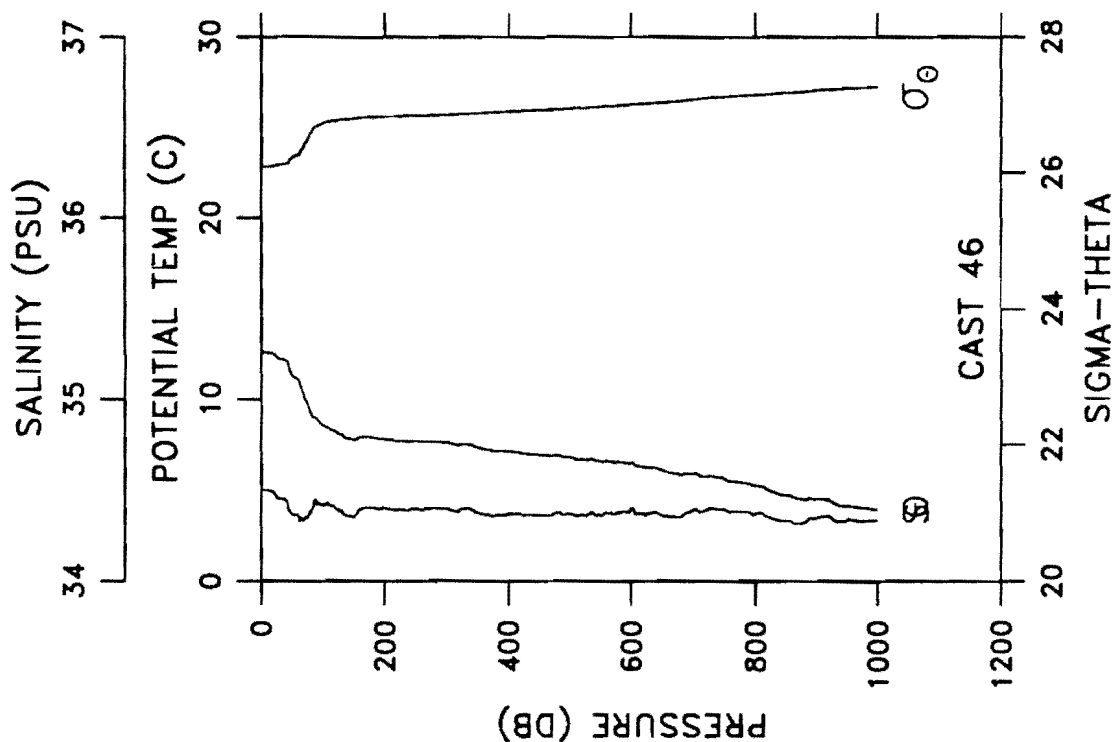
CAST CG1-90-MB -045 DATE 08 MAR 90 TIME 0213 GMT
 LAT 50 00.2S LONG 169 59.8W WEATHER 4 SEA STATE 2
 BAROMETER 16 WIND DIR 358 T SPD 14 KT VISIBILITY 4
 CLOUD X AMOUNT 8 DRY 12.0 WET 12.0 DEPTH 5340 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	12.511	34.484	26.090	0.000
10	12.508	34.486	26.093	0.019
20	12.466	34.487	26.101	0.038
30	12.366	34.472	26.109	0.057
40	12.186	34.453	26.129	0.076
50	11.885	34.371	26.123	0.095
60	11.157	34.352	26.243	0.113
70	10.345	34.323	26.364	0.130
80	9.552	34.357	26.525	0.146
90	9.102	34.435	26.660	0.161
100	8.881	34.458	26.713	0.174
110	8.508	34.415	26.737	0.188
120	8.453	34.431	26.759	0.201
130	8.224	34.400	26.769	0.214
140	7.911	34.355	26.781	0.227
150	7.795	34.358	26.800	0.239
160	7.780	34.364	26.807	0.252
170	7.881	34.390	26.813	0.264
180	7.883	34.400	26.821	0.277
190	7.852	34.400	26.825	0.289
200	7.803	34.396	26.829	0.302
250	7.724	34.399	26.843	0.364
300	7.659	34.399	26.852	0.426
350	7.386	34.389	26.884	0.488
400	7.070	34.385	26.909	0.548
403	7.072	34.367	26.911	0.552

CAST CG1-90-MB -046 DATE 08 MAR 90 TIME 0434 GMT
LAT 50 00.3S LONG 170 01.5W

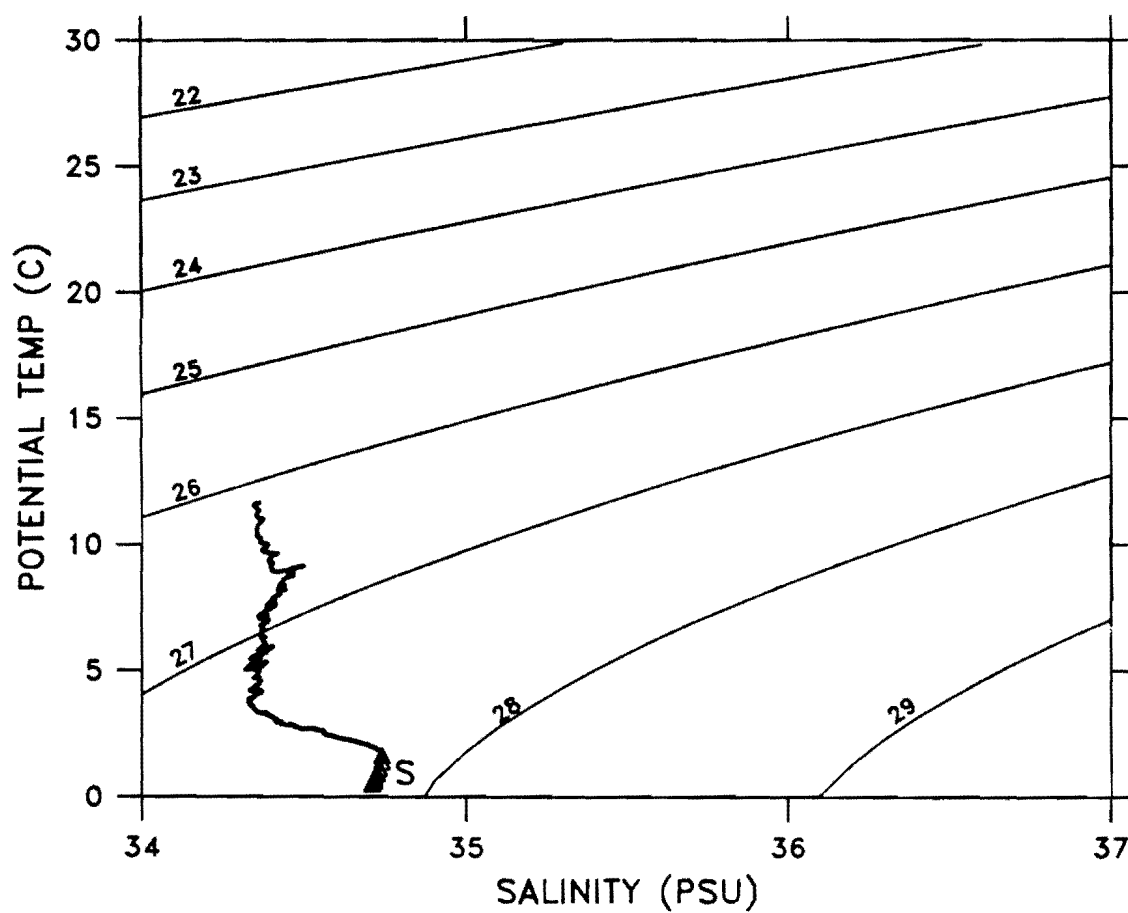


CAST CG1-90-MB -046 DATE 08 MAR 90 TIME 0434 GMT
 LAT 50 00.35 LONG 170 01.5W WEATHER 4 SEA STATE 3
 BAROMETER 16 WIND DIR 315 T SPD 10 KT VISIBILITY 1
 CLOUD X AMOUNT 8 DRY 11.9 WET 12.2 DEPTH 5340 M

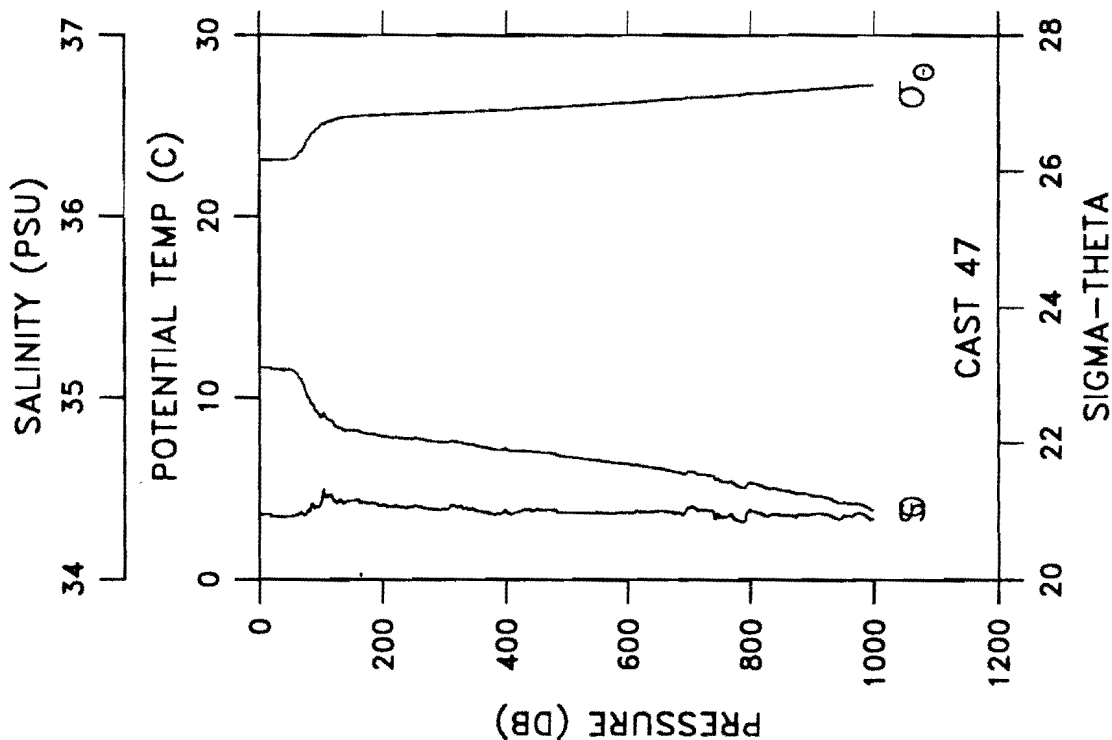


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	12.571	34.502	26.093	0.000
10	12.566	34.499	26.091	0.019
20	12.490	34.490	26.089	0.038
30	12.220	34.454	26.124	0.057
40	12.117	34.445	26.136	0.076
50	11.350	34.371	26.223	0.095
60	11.110	34.363	26.260	0.112
70	10.085	34.342	26.424	0.129
80	9.298	34.387	26.590	0.145
90	8.941	34.434	26.684	0.159
100	8.570	34.415	26.728	0.172
110	8.427	34.421	26.755	0.185
120	8.226	34.400	26.769	0.198
130	8.055	34.388	26.786	0.211
140	7.853	34.362	26.795	0.224
150	7.778	34.349	26.796	0.236
160	7.903	34.390	26.810	0.249
170	7.939	34.401	26.813	0.261
180	7.904	34.404	26.820	0.274
190	7.837	34.397	26.824	0.287
200	7.813	34.401	26.831	0.299
250	7.721	34.398	26.843	0.361
300	7.657	34.401	26.854	0.423
350	7.367	34.377	26.877	0.485
400	7.124	34.368	26.904	0.546
450	6.948	34.364	26.925	0.605
500	6.833	34.372	26.947	0.665
550	6.599	34.363	26.972	0.723
600	6.538	34.400	27.009	0.781
650	6.117	34.364	27.035	0.837
700	5.918	34.391	27.082	0.891
750	5.643	34.392	27.117	0.944
800	5.258	34.372	27.148	0.995
900	4.510	34.350	27.215	1.093
1000	3.914	34.334	27.266	1.184
1500	2.643	34.508	27.525	1.563
2000	2.188	34.657	27.682	1.850
2401	1.942	34.719	27.751	2.045

CAST CG1-90-MB -047 DATE 08 MAR 90 TIME 0844 GMT
LAT 50 04.0S LONG 170 04.2W

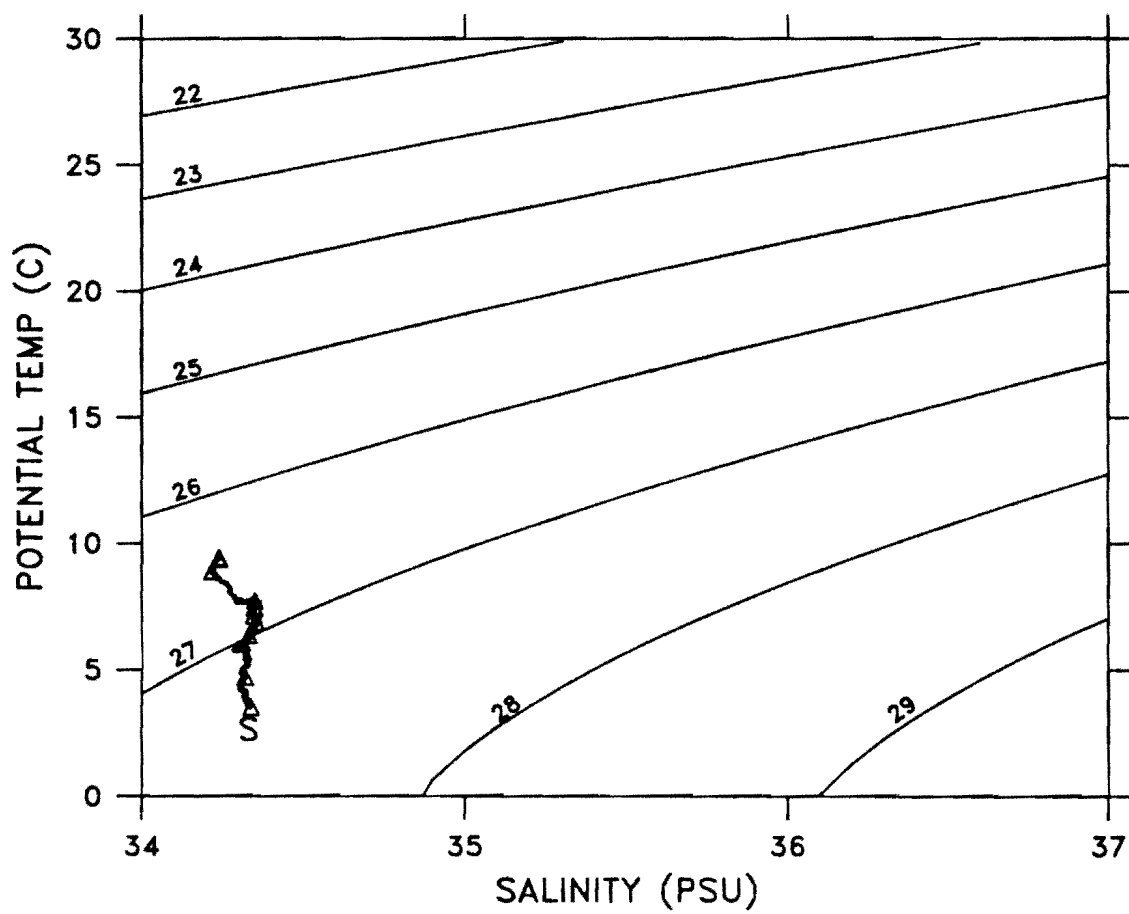


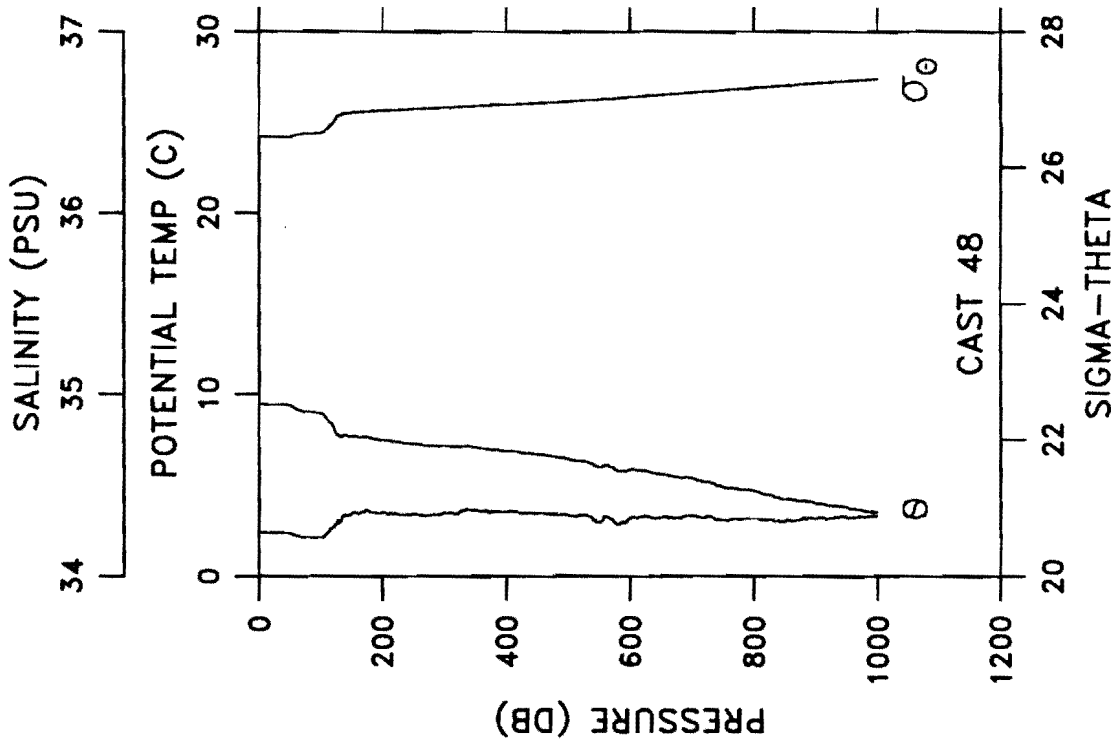
CAST CG1-90-MB -047 DATE 08 MAR 90 TIME 0844 GMT
 LAT 50 04.0S LONG 170 04.2W WEATHER 4 SEA STATE 3
 BAROMETER 13 WIND DIR 321 T SPD 25 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 11.6 WET 12.0 DEPTH 5279 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	11.644	34.359	26.159	0.000
10	11.645	34.360	26.159	0.018
20	11.595	34.348	26.159	0.037
30	11.541	34.345	26.167	0.055
40	11.531	34.344	26.169	0.074
50	11.524	34.346	26.171	0.092
60	11.349	34.360	26.214	0.111
70	10.760	34.357	26.318	0.128
80	9.929	34.386	26.485	0.144
90	8.261	34.402	26.608	0.159
100	8.942	34.428	26.690	0.174
110	8.792	34.456	26.725	0.187
120	8.552	34.432	26.744	0.200
130	8.353	34.439	26.780	0.213
140	8.184	34.426	26.796	0.226
150	8.191	34.434	26.801	0.239
160	8.186	34.438	26.805	0.251
170	8.055	34.426	26.815	0.264
180	7.997	34.421	26.820	0.276
190	7.964	34.417	26.822	0.289
200	7.885	34.411	26.829	0.301
250	7.738	34.400	26.842	0.364
300	7.555	34.388	26.858	0.426
350	7.366	34.381	26.880	0.487
400	7.167	34.372	26.901	0.548
450	7.019	34.388	26.934	0.607
500	6.740	34.367	26.956	0.666
550	6.555	34.371	26.984	0.724
600	6.355	34.370	27.010	0.781
650	6.107	34.376	27.046	0.837
700	5.914	34.392	27.083	0.891
750	5.420	34.339	27.102	0.944
800	5.324	34.379	27.145	0.995
900	4.632	34.358	27.208	1.094
1000	3.843	34.334	27.272	1.185
1500	2.690	34.527	27.535	1.559
2000	2.181	34.659	27.684	1.842
2500	1.854	34.728	27.765	2.081
3000	1.436	34.738	27.805	2.295
3500	1.055	34.728	27.823	2.492
4000	0.747	34.716	27.834	2.676
4500	0.579	34.709	27.839	2.854
5000	0.526	34.708	27.841	3.033
5304	0.516	34.706	27.840	3.145

CAST CG1-90-MB -048 DATE 08 MAR 90 TIME 2113 GMT
LAT 51 59.6S LONG 169 59.2W

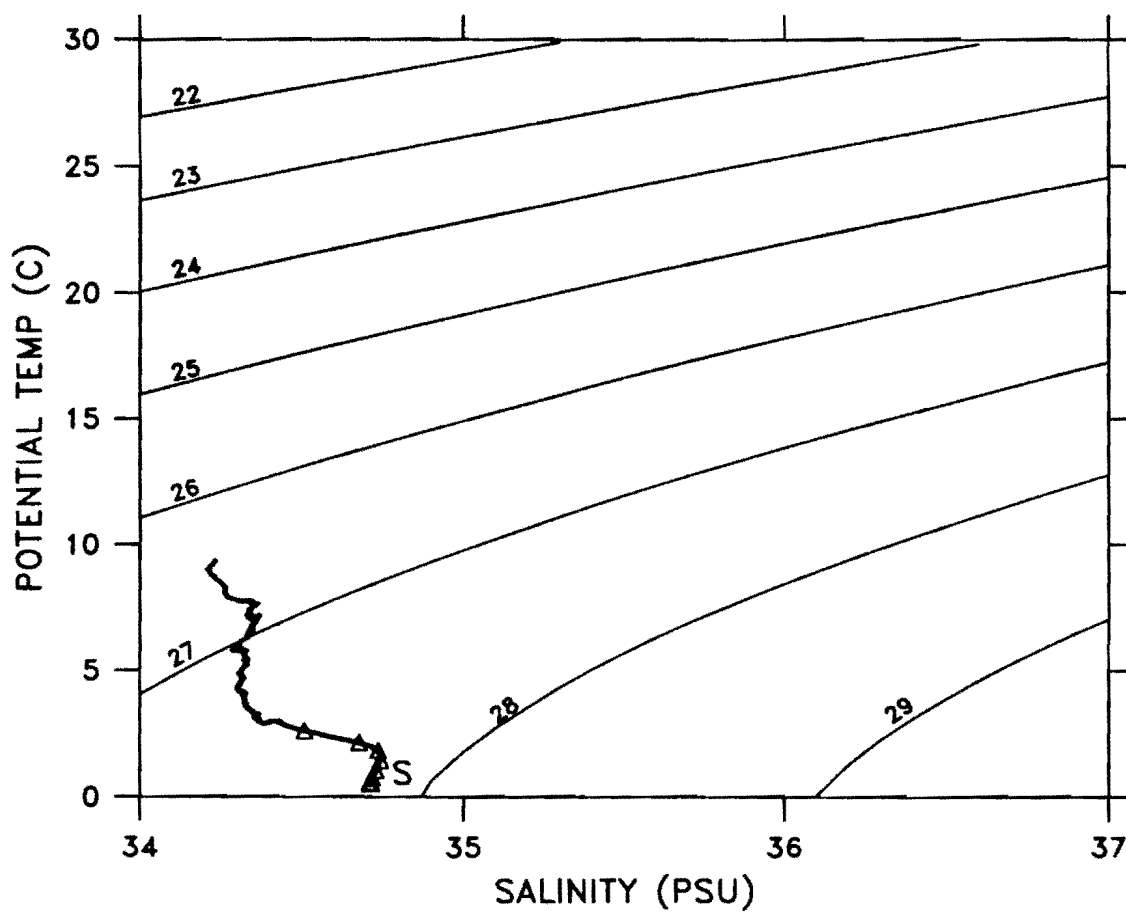


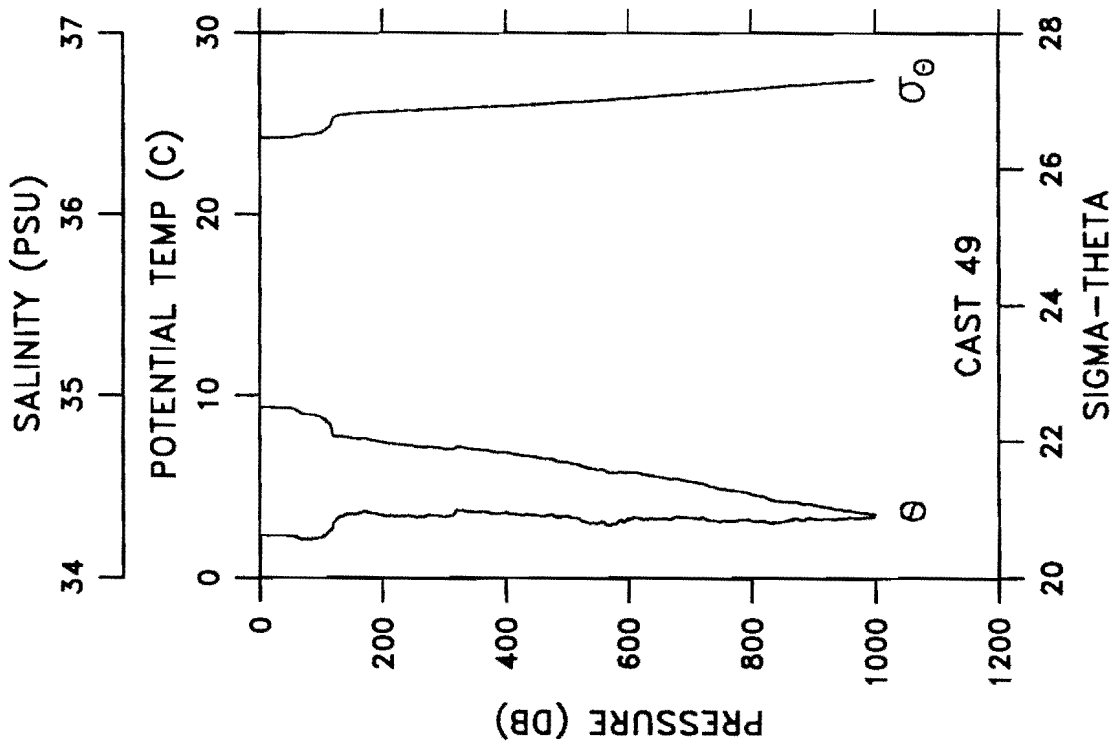


CAST CG1-90-MB -048 DATE 08 MAR 90 TIME 2113 GMT
 LAT 51 59.6S LONG 169 59.2W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 256 T SPD 21 KT VISIBILITY 8
 CLOUD 4 AMOUNT 7 DRY 12.0 WET 11.4 DEPTH 4981 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	9.451	34.239	26.450	0.000
10	9.443	34.240	26.452	0.016
20	9.430	34.240	26.454	0.031
30	9.431	34.240	26.454	0.047
40	9.420	34.240	26.455	0.063
50	9.384	34.235	26.458	0.079
60	9.172	34.223	26.482	0.094
70	9.048	34.214	26.495	0.110
80	9.032	34.216	26.499	0.125
90	8.995	34.214	26.504	0.140
100	8.948	34.214	26.512	0.156
110	8.816	34.236	26.581	0.171
120	8.239	34.270	26.665	0.185
130	7.689	34.290	26.762	0.198
140	7.765	34.340	26.790	0.211
150	7.663	34.341	26.806	0.224
160	7.841	34.345	26.813	0.236
170	7.632	34.353	26.820	0.249
180	7.587	34.352	26.825	0.261
190	7.520	34.347	26.831	0.274
200	7.481	34.349	26.839	0.286
250	7.291	34.342	26.860	0.348
300	7.164	34.347	26.882	0.409
350	7.092	34.365	26.906	0.469
400	6.882	34.354	26.926	0.528
450	6.690	34.345	26.945	0.587
500	6.431	34.335	26.972	0.645
550	5.983	34.298	27.000	0.702
600	5.825	34.319	27.037	0.757
650	5.574	34.322	27.070	0.812
700	5.366	34.332	27.103	0.864
750	4.889	34.308	27.140	0.915
800	4.694	34.320	27.171	0.965
900	3.996	34.315	27.242	1.059
1000	3.518	34.333	27.304	1.146
1003	3.503	34.333	27.308	1.149

CAST CG1-90-MB -049 DATE 09 MAR 90 TIME 0027 GMT
LAT 51 58.0S LONG 169 59.1W

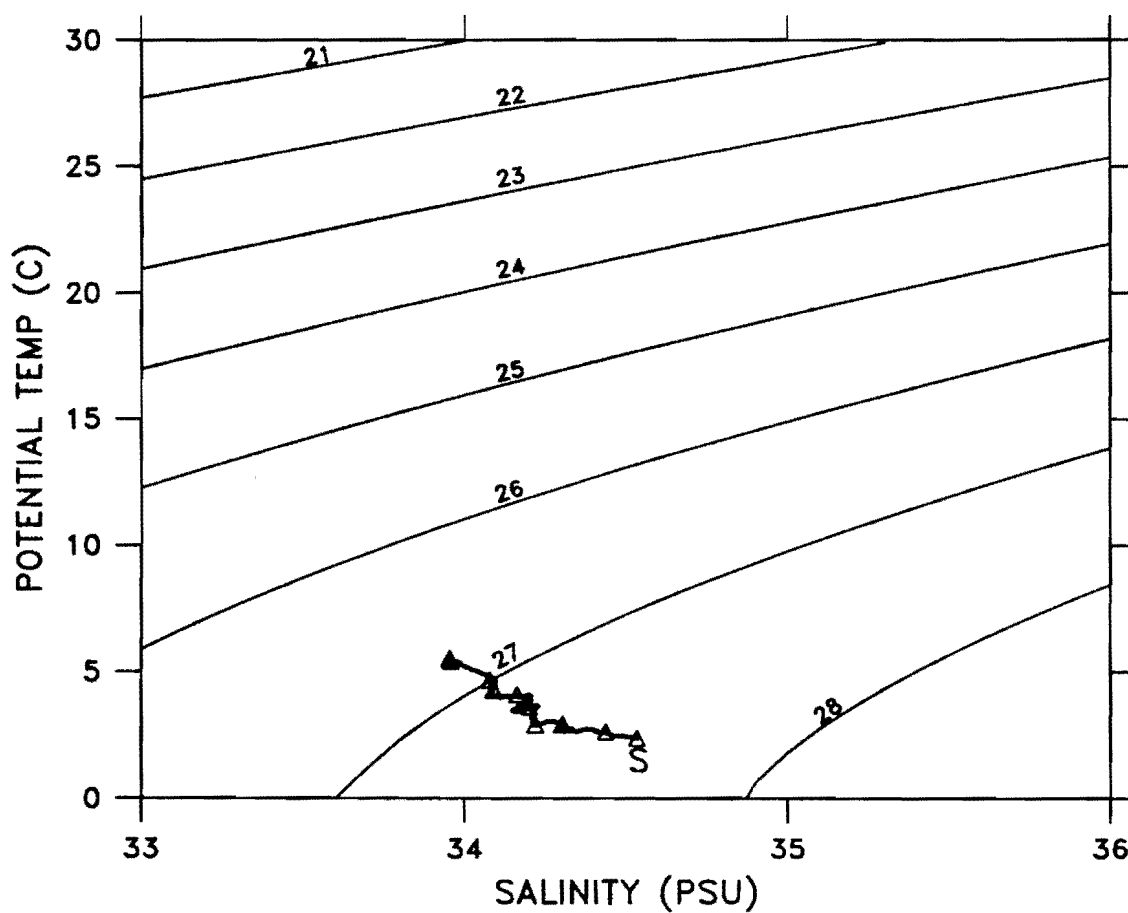




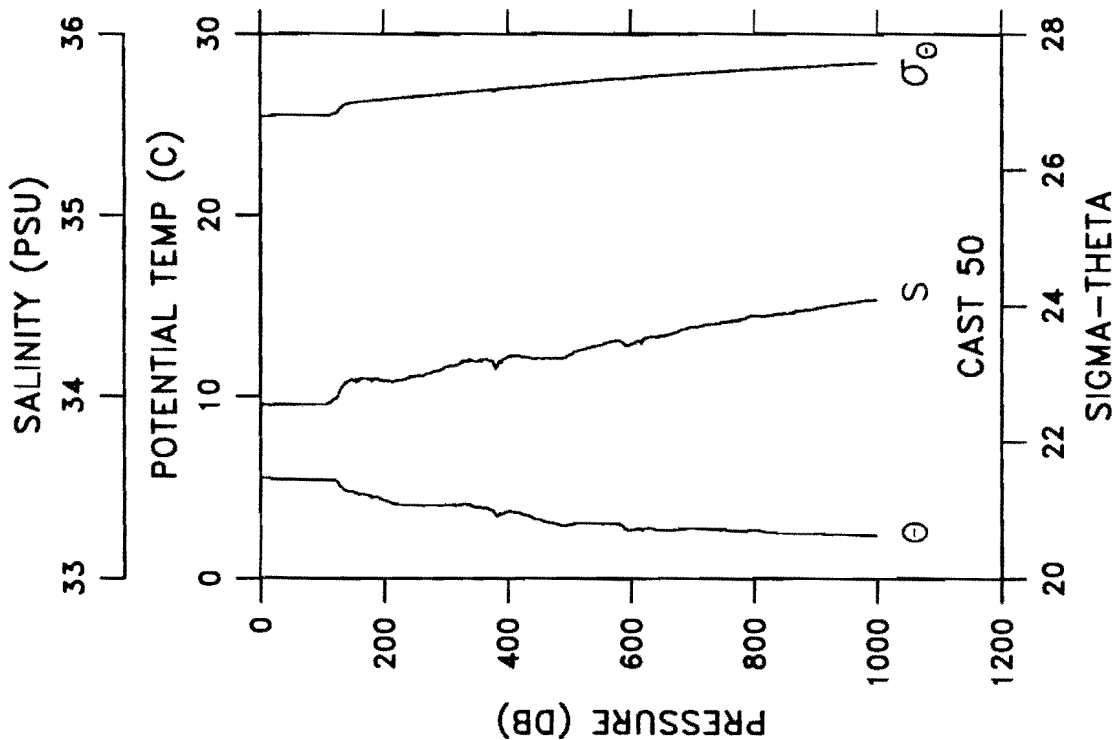
CAST CG1-90-MB -049 DATE 09 MAR 90 TIME 0027 GMT
 LAT 51 58.05 LONG 169 59.1W WEATHER 2 SEA STATE 1
 BAROMETER 13 WIND DIR 266 T SPD 18 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 10.0 WET 10.0 DEPTH 5054 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	9.370	34.232	26.457	0.000
10	9.361	34.232	26.459	0.016
20	9.336	34.232	26.463	0.031
30	9.323	34.232	26.465	0.047
40	9.320	34.231	26.465	0.063
50	9.300	34.231	26.468	0.078
60	9.191	34.223	26.480	0.094
70	8.982	34.212	26.504	0.109
80	8.973	34.212	26.508	0.125
90	8.925	34.213	26.514	0.140
100	8.813	34.217	26.535	0.155
110	8.522	34.247	26.604	0.170
120	7.793	34.301	26.755	0.184
130	7.761	34.332	26.785	0.197
140	7.724	34.347	26.802	0.209
150	7.663	34.348	26.811	0.222
160	7.620	34.347	26.817	0.234
170	7.641	34.360	26.825	0.247
180	7.558	34.353	26.831	0.259
190	7.521	34.351	26.834	0.272
200	7.453	34.346	26.840	0.284
250	7.246	34.335	26.861	0.345
300	7.083	34.335	26.884	0.406
350	7.056	34.361	26.908	0.466
400	6.892	34.359	26.929	0.525
450	6.643	34.343	26.950	0.584
500	6.361	34.339	26.984	0.642
550	5.946	34.299	27.006	0.698
600	5.804	34.322	27.042	0.753
650	5.531	34.322	27.075	0.807
700	5.292	34.329	27.109	0.860
750	4.869	34.308	27.142	0.911
800	4.588	34.312	27.176	0.960
900	4.008	34.324	27.248	1.053
1000	3.486	34.333	27.307	1.140
1500	2.549	34.533	27.552	1.500
2000	2.141	34.673	27.699	1.775
2500	1.817	34.732	27.772	2.007
3000	1.416	34.739	27.807	2.218
3500	1.040	34.728	27.824	2.413
4000	0.732	34.716	27.835	2.596
4500	0.565	34.710	27.840	2.773
5000	0.519	34.708	27.841	2.951
5131	0.508	34.707	27.841	2.998

CAST CG1-90-MB -050 DATE 10 MAR 90 TIME 0231 GMT
LAT 56 42.1S LONG 170 03.4W

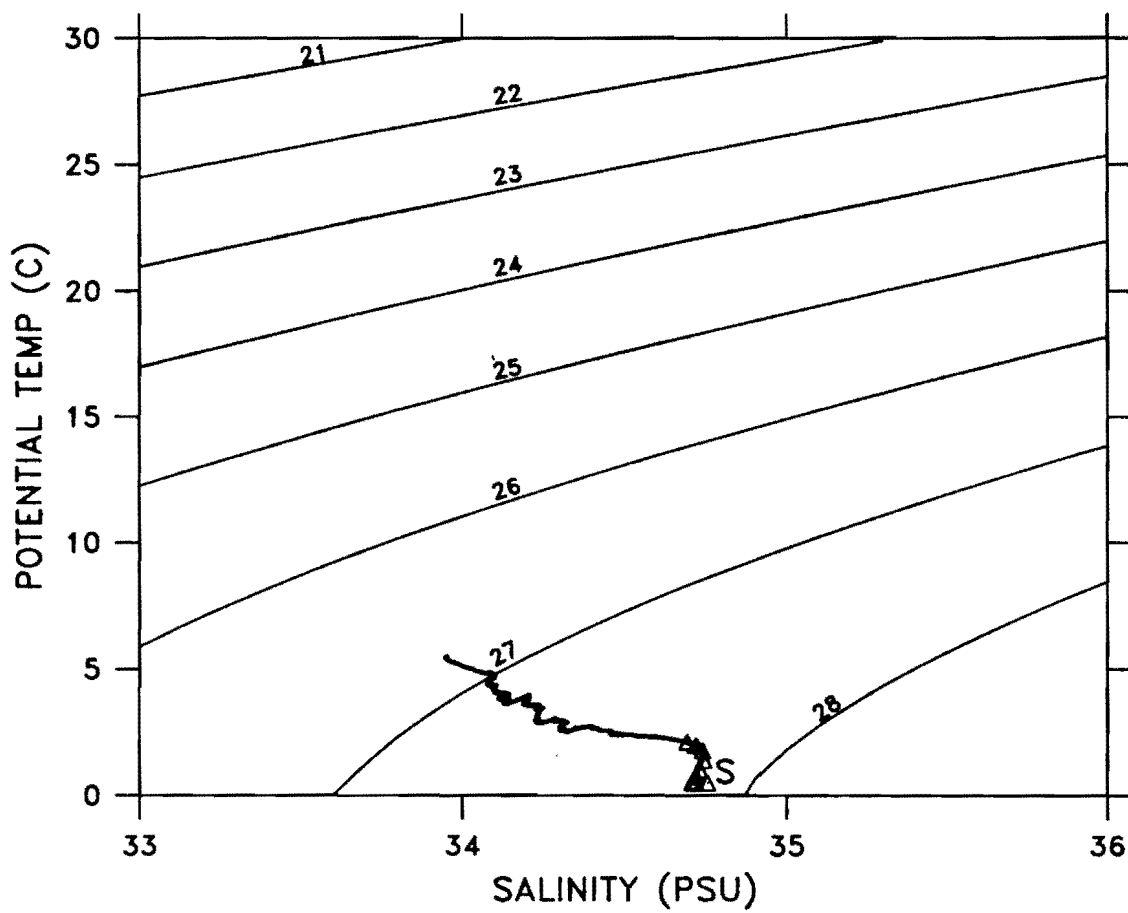


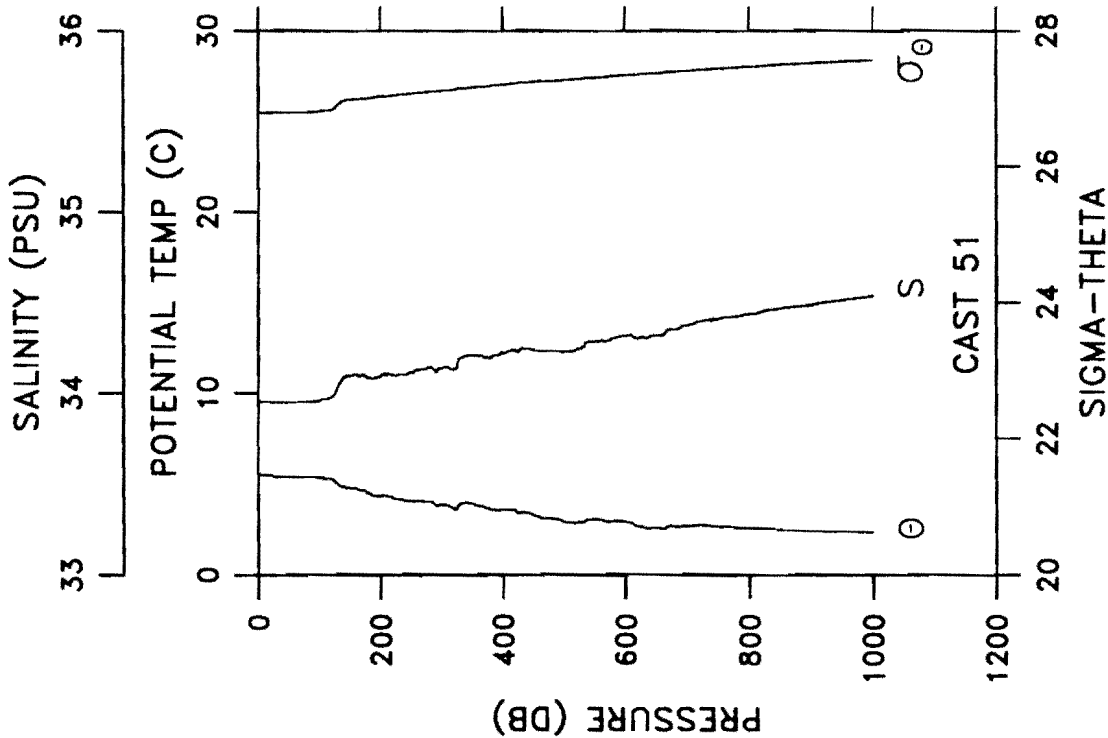
CAST CG1-90-MB -050 DATE 10 MAR 90 TIME 0231 GMT
 LAT 56 42.1S LONG 170 03.4W WEATHER 2 SEA STATE 5
 BAROMETER 05 WIND DIR 345 T SPD 20 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 06.0 WET 08.0 DEPTH 4883 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	5.529	33.955	26.785	0.000
10	5.529	33.956	26.786	0.013
20	5.429	33.954	26.796	0.025
30	5.415	33.954	26.798	0.037
40	5.409	33.955	26.799	0.050
50	5.407	33.955	26.799	0.062
60	5.403	33.955	26.800	0.075
70	5.403	33.955	26.800	0.087
80	5.403	33.955	26.800	0.100
90	5.403	33.956	26.800	0.112
100	5.405	33.956	26.801	0.125
110	5.413	33.961	26.803	0.137
120	5.369	33.984	26.827	0.150
130	5.007	34.043	26.916	0.162
140	4.783	34.077	26.968	0.173
150	4.745	34.086	26.980	0.184
160	4.624	34.095	27.000	0.194
170	4.586	34.097	27.006	0.205
180	4.410	34.080	27.011	0.216
190	4.455	34.096	27.019	0.226
200	4.264	34.086	27.032	0.236
250	4.032	34.110	27.075	0.287
300	4.026	34.159	27.115	0.337
350	3.889	34.191	27.154	0.384
400	3.661	34.219	27.199	0.430
450	3.251	34.212	27.233	0.474
500	2.935	34.229	27.276	0.516
550	2.995	34.283	27.313	0.556
600	2.648	34.289	27.348	0.595
650	2.629	34.335	27.387	0.632
700	2.738	34.382	27.416	0.667
750	2.658	34.411	27.445	0.702
800	2.630	34.444	27.474	0.735
900	2.455	34.488	27.524	0.798
1000	2.355	34.537	27.572	0.856
1001	2.355	34.537	27.572	0.856

CAST CG1-90-MB -051 DATE 10 MAR 90 TIME 0612 GMT
LAT 56 46.1S LONG 170 04.1W

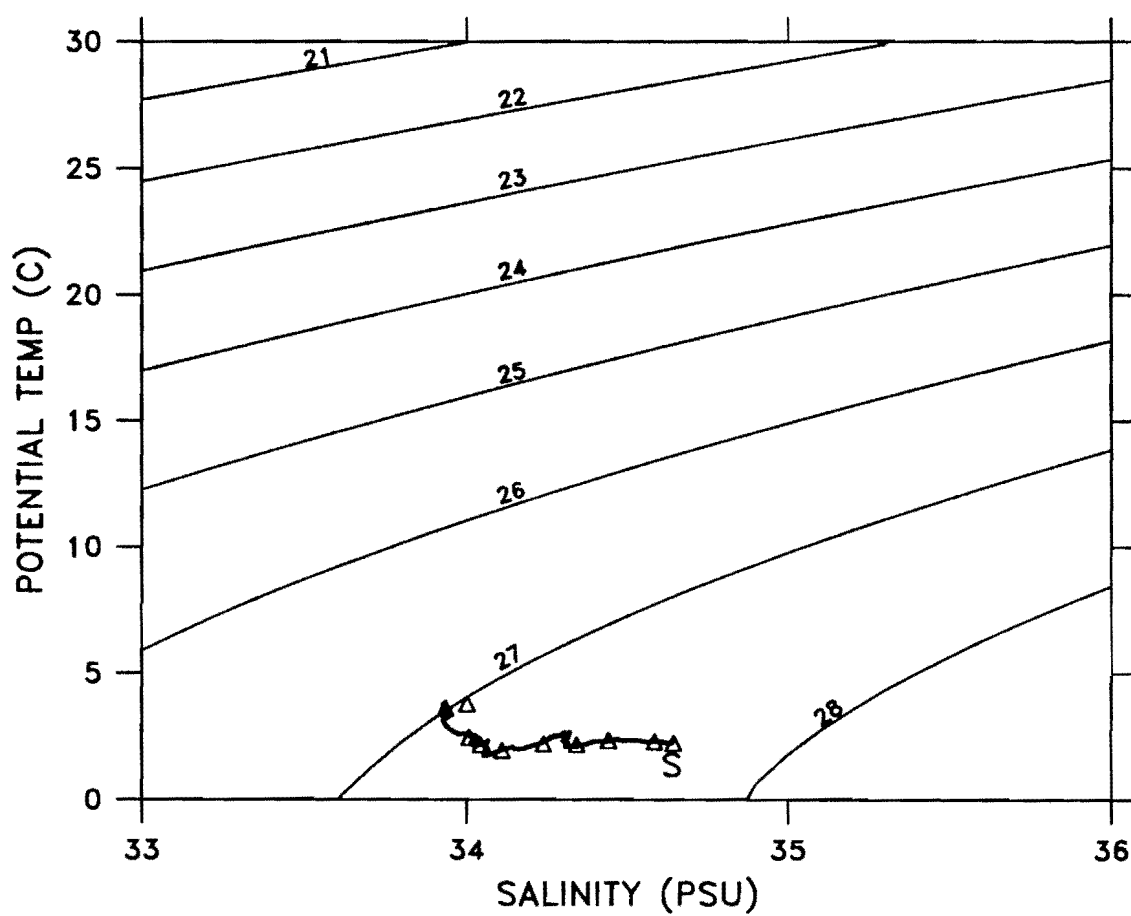


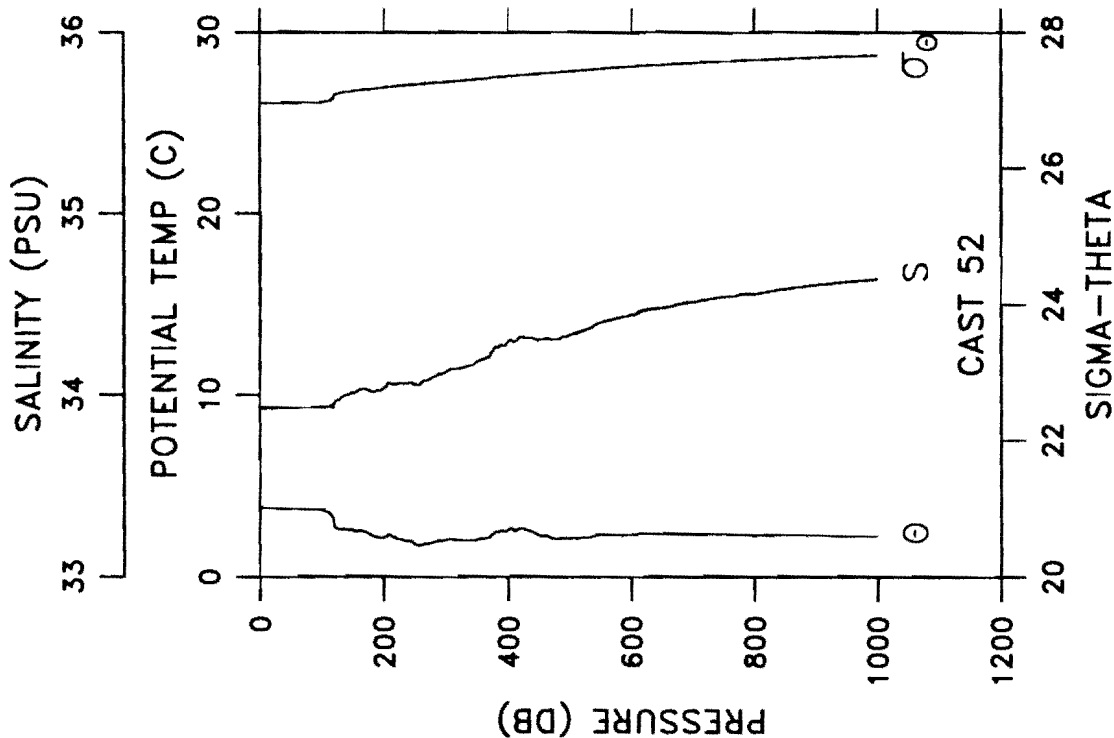


CAST CG1-90-MB -051 DATE 10 MAR 90 TIME 0612 GMT
 LAT 56 46.1S LONG 170 04.1W WEATHER 2 SEA STATE 5
 BAROMETER 98 WIND DIR 012 T SPD 26 KT VISIBILITY 7
 CLOUD 7 AMOUNT 7 DRY 06.0 WET 06.0 DEPTH 4822 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	5.502	33.952	26.786	0.000
10	5.502	33.953	26.787	0.013
20	5.489	33.953	26.787	0.025
30	5.403	33.952	26.797	0.038
40	5.394	33.952	26.799	0.050
50	5.390	33.952	26.799	0.062
60	5.389	33.952	26.800	0.075
70	5.388	33.953	26.800	0.087
80	5.387	33.952	26.800	0.100
90	5.375	33.954	26.802	0.112
100	5.336	33.958	26.810	0.125
110	5.291	33.967	26.823	0.137
120	5.258	33.974	26.832	0.149
130	5.001	34.032	26.908	0.161
140	4.858	34.090	26.970	0.172
150	4.772	34.095	26.984	0.183
160	4.758	34.102	26.990	0.194
170	4.650	34.101	27.002	0.205
180	4.499	34.089	27.009	0.215
190	4.352	34.084	27.021	0.226
200	4.313	34.090	27.030	0.236
250	4.082	34.115	27.074	0.287
300	3.840	34.135	27.114	0.336
350	3.911	34.205	27.163	0.384
400	3.582	34.219	27.207	0.429
450	3.281	34.233	27.247	0.472
500	2.910	34.228	27.277	0.514
550	3.047	34.285	27.310	0.554
600	2.925	34.317	27.347	0.593
650	2.586	34.318	27.377	0.630
700	2.685	34.373	27.412	0.666
750	2.637	34.410	27.446	0.700
800	2.569	34.436	27.473	0.733
900	2.427	34.487	27.526	0.795
1000	2.366	34.536	27.570	0.854
1500	2.100	34.692	27.717	1.103
2000	1.776	34.737	27.779	1.316
2500	1.366	34.739	27.811	1.510
3000	1.011	34.727	27.825	1.693
3500	0.728	34.716	27.834	1.867
4000	0.567	34.710	27.840	2.036
4500	0.510	34.708	27.841	2.205
4768	0.493	34.707	27.842	2.298

CAST CG1-90-MB -052 DATE 11 MAR 90 TIME 0138 GMT
LAT 60 00.7S LONG 169 57.3W

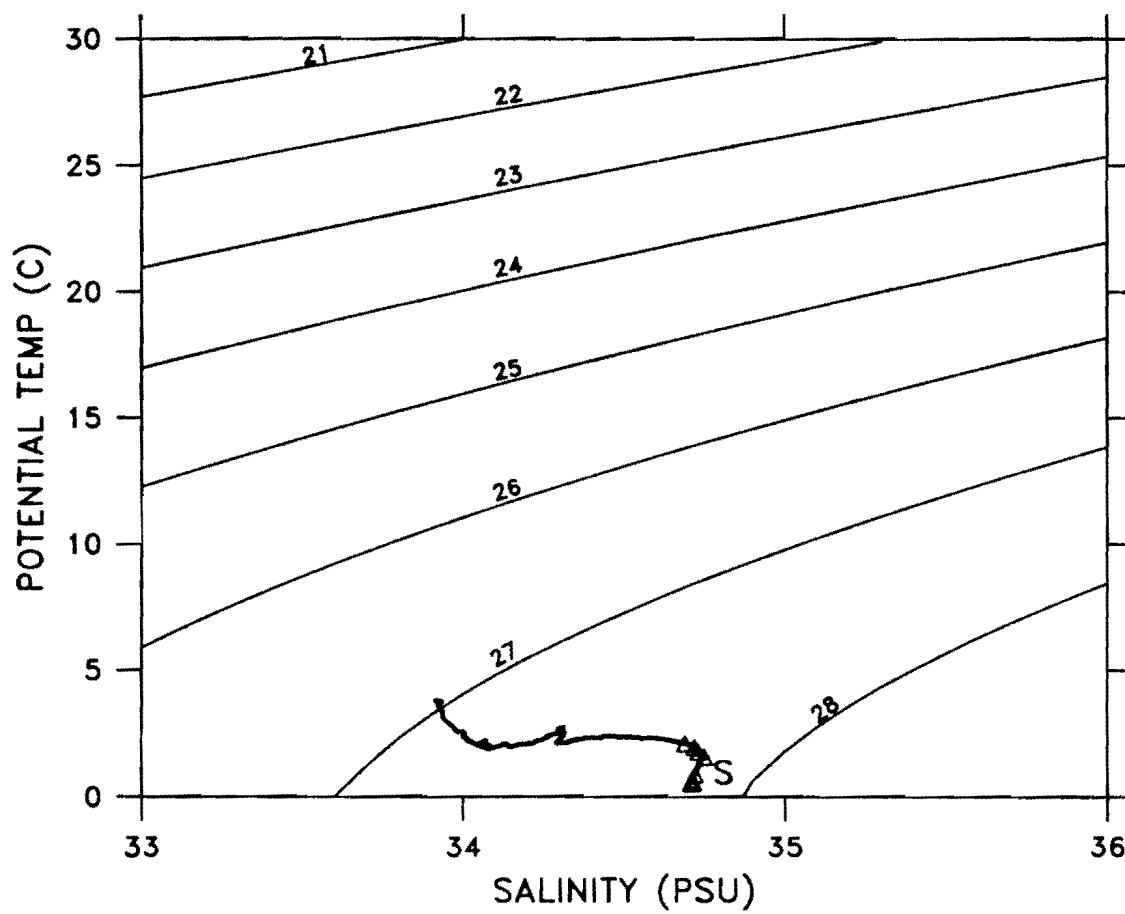


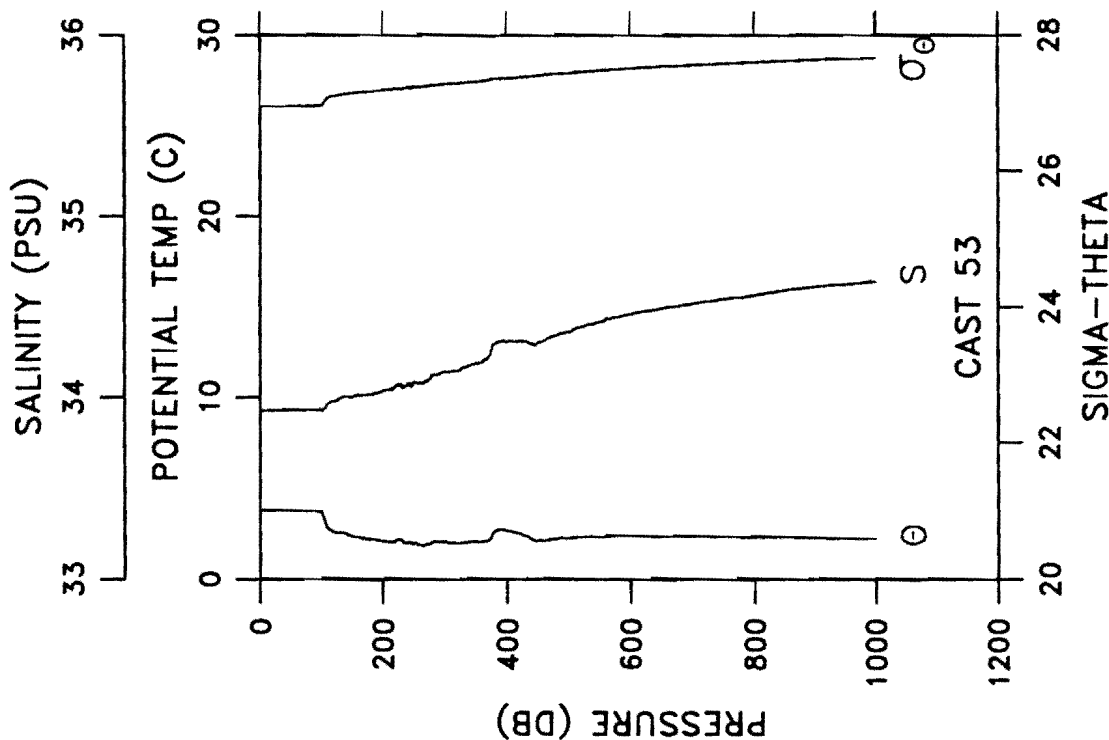


CAST CG1-90-MB -052 DATE 11 MAR 90 TIME 0138 GMT
 LAT 60 00.7S LONG 169 57.3W WEATHER 4 SEA STATE 3
 BAROMETER 62 WIND DIR 314 T SPD 26 KT VISIBILITY 3
 CLOUD X AMOUNT 9 DRY 06.0 WET 06.0 DEPTH 4139 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	3.797	33.927	26.953	0.000
10	3.787	33.928	26.955	0.011
20	3.788	33.927	26.954	0.022
30	3.762	33.929	26.958	0.033
40	3.759	33.929	26.959	0.044
50	3.750	33.929	26.960	0.055
60	3.742	33.930	26.961	0.065
70	3.723	33.932	26.964	0.076
80	3.716	33.932	26.965	0.087
90	3.711	33.932	26.966	0.098
100	3.677	33.933	26.970	0.109
110	3.567	33.937	26.983	0.120
120	2.759	33.952	27.070	0.130
130	2.599	33.981	27.107	0.140
140	2.598	34.000	27.122	0.149
150	2.586	34.011	27.132	0.159
160	2.544	34.028	27.149	0.168
170	2.488	34.033	27.158	0.177
180	2.289	34.017	27.162	0.186
190	2.198	34.024	27.174	0.195
200	2.167	34.036	27.186	0.204
250	1.809	34.057	27.231	0.247
300	2.025	34.126	27.269	0.288
350	2.049	34.182	27.312	0.327
400	2.604	34.297	27.359	0.365
450	2.272	34.307	27.395	0.401
500	2.112	34.332	27.428	0.435
550	2.313	34.401	27.467	0.468
600	2.332	34.443	27.499	0.499
650	2.358	34.480	27.526	0.528
700	2.355	34.510	27.550	0.557
750	2.340	34.541	27.577	0.585
800	2.299	34.558	27.593	0.612
900	2.294	34.606	27.632	0.663
1000	2.235	34.639	27.663	0.712
1005	2.232	34.640	27.665	0.714

CAST CG1-90-MB -053 DATE 11 MAR 90 TIME 0502 GMT
LAT 60 00.6S LONG 169 53.0W

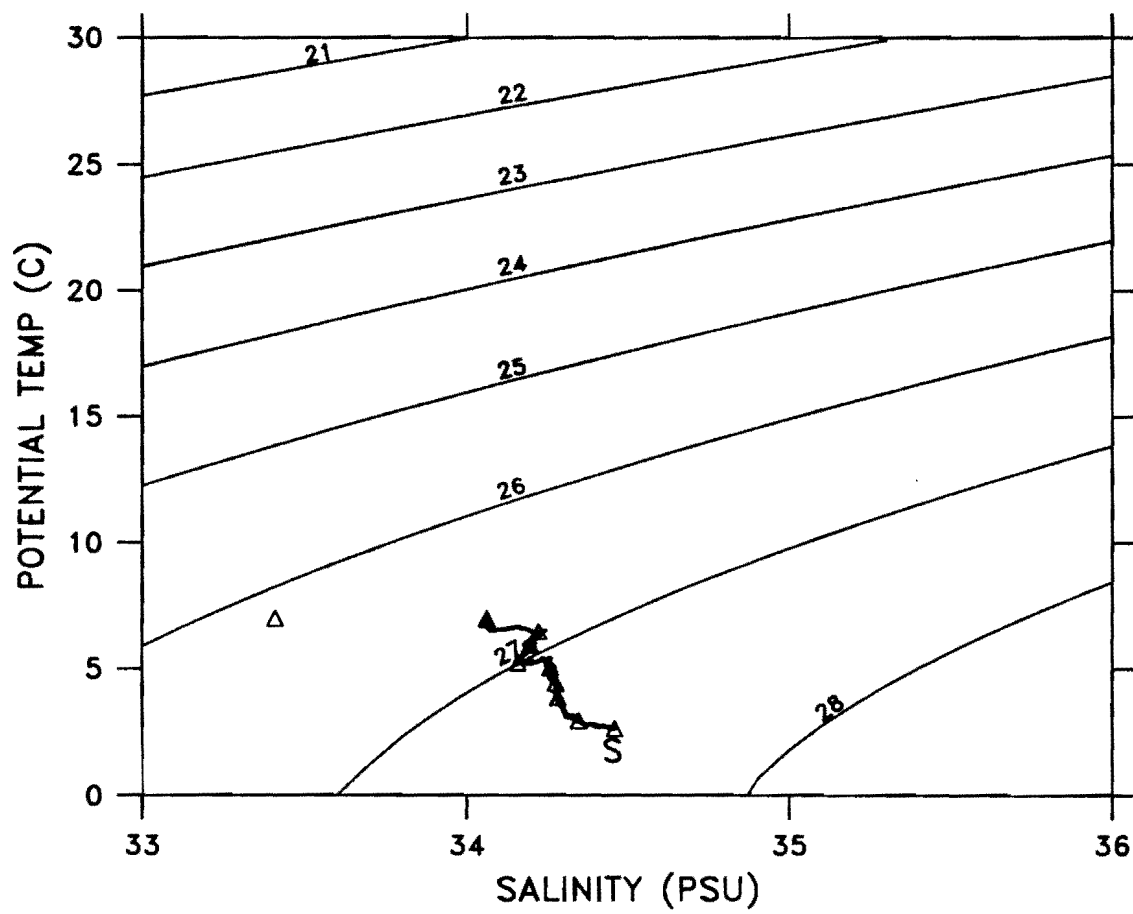


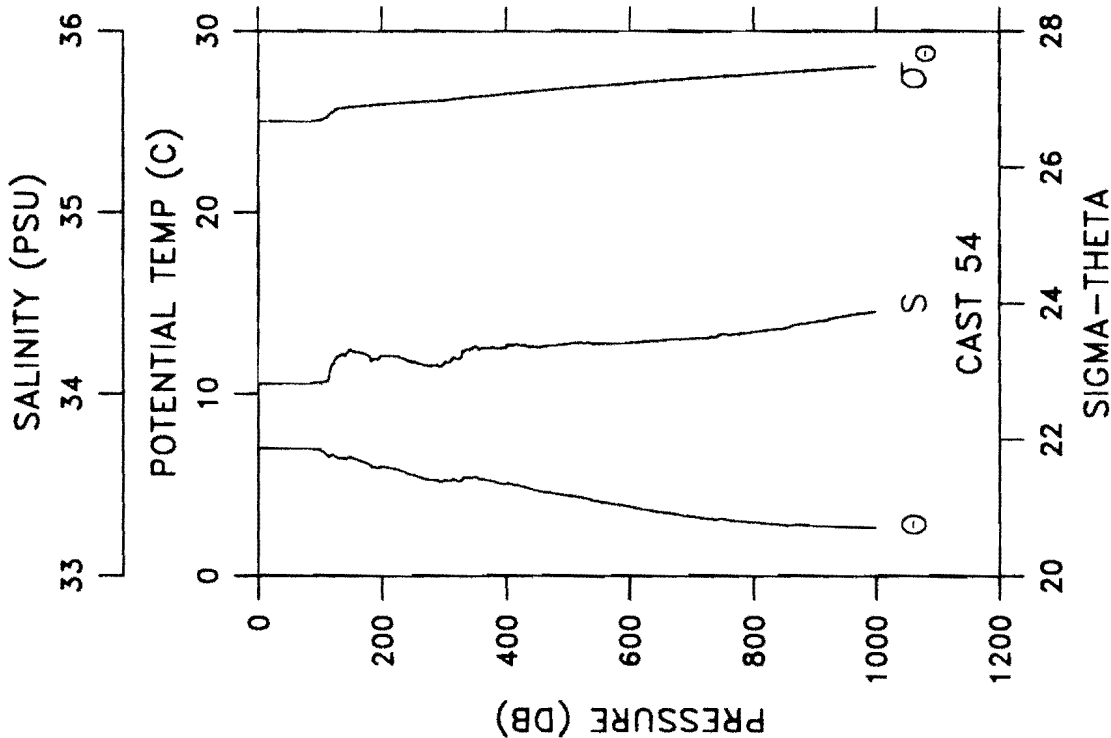


CAST CG1-90-MB -053 DATE 11 MAR 90 TIME 0502 GMT
 LAT 60 00.6S LONG 169 53.0W WEATHER 4 SEA STATE 4
 BAROMETER 59 WIND DIR 265 T SPD 16 KT VISIBILITY 0
 CLOUD X AMOUNT 9 DRY 04.5 WET 04.8 DEPTH 4139 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	3.784	33.913	26.944	0.000
10	3.781	33.929	26.956	0.011
20	3.784	33.928	26.955	0.022
30	3.781	33.928	26.956	0.033
40	3.776	33.930	26.957	0.044
50	3.770	33.930	26.958	0.055
60	3.769	33.930	26.958	0.066
70	3.768	33.931	26.959	0.076
80	3.767	33.931	26.959	0.087
90	3.762	33.933	26.961	0.098
100	3.698	33.931	26.966	0.109
110	2.806	33.966	27.077	0.120
120	2.599	33.979	27.105	0.129
130	2.567	33.995	27.121	0.139
140	2.494	34.005	27.135	0.148
150	2.342	34.001	27.144	0.157
160	2.314	34.014	27.157	0.166
170	2.229	34.012	27.162	0.175
180	2.191	34.016	27.168	0.184
190	2.156	34.022	27.176	0.193
200	2.094	34.035	27.191	0.202
250	1.939	34.078	27.238	0.245
300	2.062	34.141	27.278	0.286
350	2.075	34.184	27.312	0.325
400	2.644	34.305	27.362	0.362
450	2.122	34.305	27.405	0.398
500	2.255	34.361	27.439	0.431
550	2.317	34.417	27.479	0.463
600	2.382	34.463	27.510	0.494
650	2.351	34.492	27.537	0.523
700	2.351	34.518	27.557	0.552
750	2.336	34.545	27.580	0.579
800	2.304	34.564	27.598	0.606
900	2.286	34.611	27.637	0.657
1000	2.236	34.639	27.663	0.708
1500	1.936	34.725	27.756	0.924
2000	1.541	34.740	27.799	1.119
2500	1.154	34.732	27.820	1.300
3000	0.856	34.720	27.830	1.473
3500	0.618	34.711	27.838	1.639
4000	0.530	34.707	27.840	1.803
4176	0.521	34.707	27.840	1.862

CAST CG1-90-MB -054 DATE 12 MAR 90 TIME 1825 GMT
LAT 55 59.5S LONG 174 14.2W

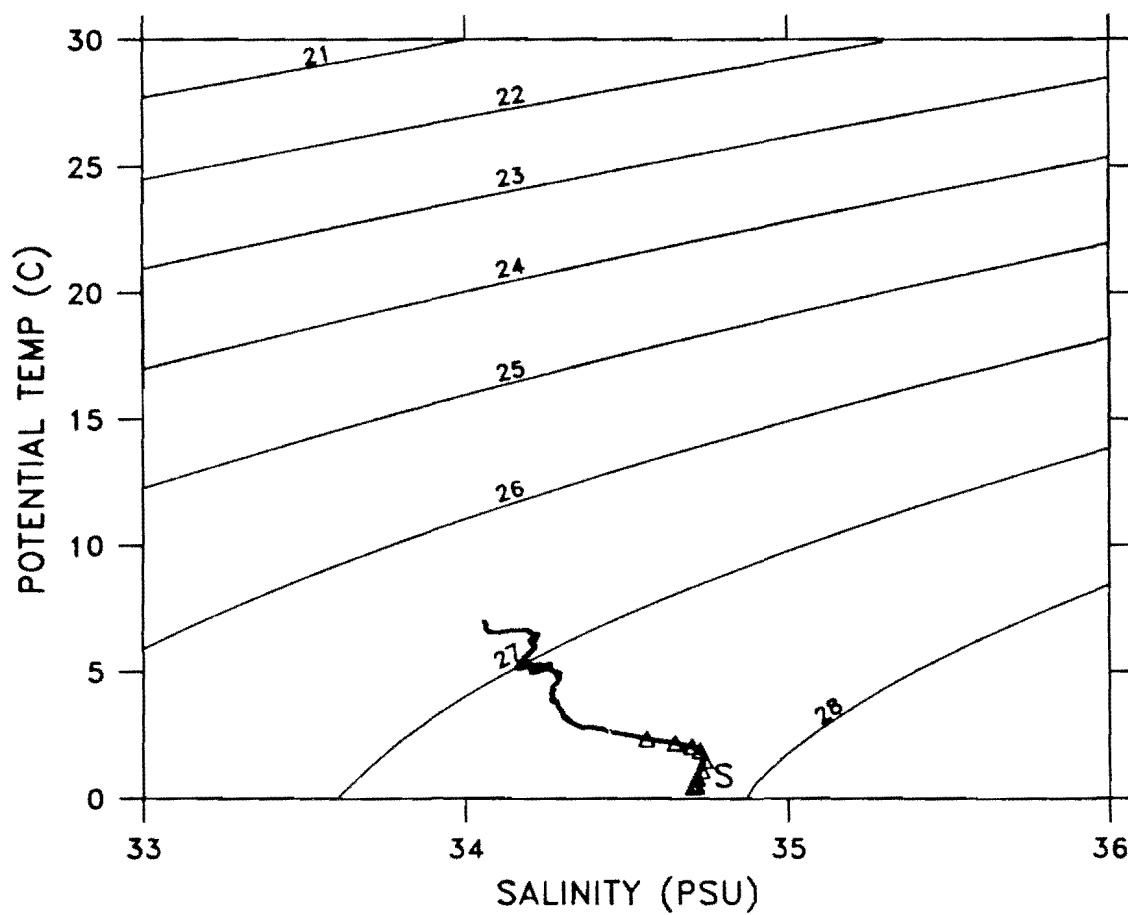




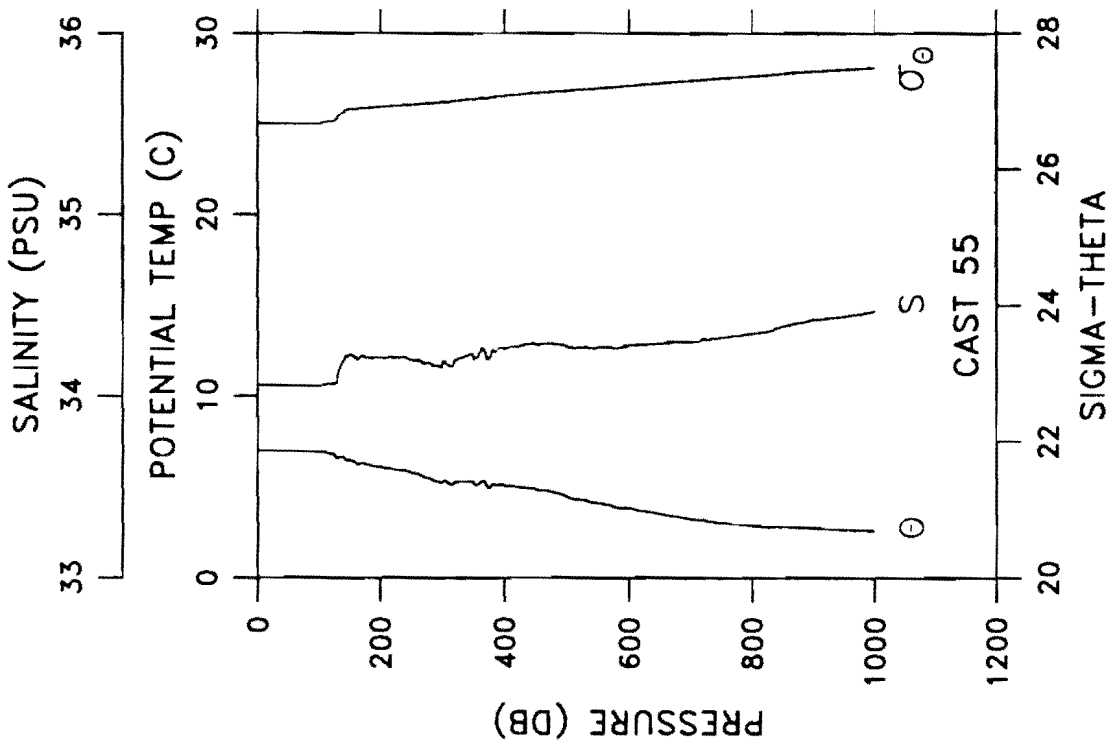
CAST CG1-90-MB -054 DATE 12 MAR 90 TIME 1825 GMT
 LAT 55 59.5S LONG 174 14.2W WEATHER 2 SEA STATE 4
 BAROMETER 02 WIND DIR 155 T SPD 10 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 05.0 WET 03.0 DEPTH 5011 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	6.984	34.055	26.677	0.000
10	6.988	34.056	26.677	0.014
20	6.987	34.056	26.677	0.027
30	6.989	34.056	26.677	0.041
40	6.989	34.056	26.677	0.054
50	6.989	34.056	26.677	0.068
60	6.988	34.056	26.677	0.082
70	6.988	34.056	26.677	0.095
80	6.988	34.056	26.677	0.109
90	6.961	34.059	26.683	0.122
100	6.922	34.064	26.692	0.136
110	6.648	34.069	26.733	0.149
120	6.658	34.162	26.805	0.162
130	6.444	34.206	26.868	0.174
140	6.394	34.207	26.876	0.186
150	6.496	34.239	26.888	0.198
160	6.371	34.229	26.896	0.210
170	6.254	34.222	26.906	0.222
180	6.109	34.204	26.910	0.233
190	5.934	34.189	26.921	0.245
200	5.999	34.211	26.930	0.256
250	5.527	34.175	26.959	0.313
300	5.226	34.168	26.990	0.368
350	5.418	34.258	27.038	0.422
400	5.052	34.265	27.087	0.474
450	4.672	34.255	27.122	0.524
500	4.395	34.275	27.168	0.572
550	4.078	34.273	27.200	0.618
600	3.797	34.278	27.232	0.663
650	3.498	34.292	27.273	0.706
700	3.262	34.303	27.305	0.747
750	3.146	34.331	27.338	0.787
800	2.940	34.342	27.366	0.826
900	2.750	34.394	27.424	0.899
1000	2.633	34.455	27.483	0.967
1001	2.629	34.455	27.483	0.967

CAST CG1-90-MB -055 DATE 12 MAR 90 TIME 2212 GMT
LAT 55 59.8S LONG 174 10.1W

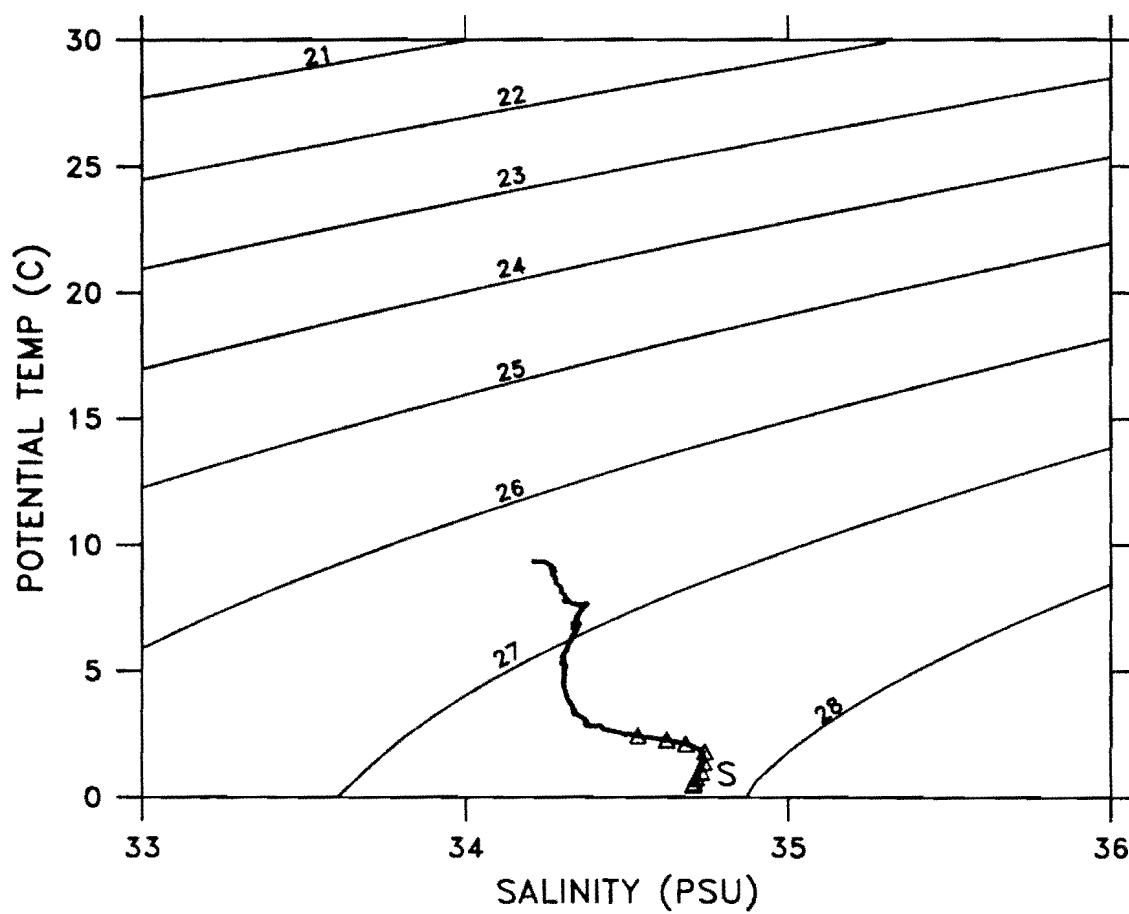


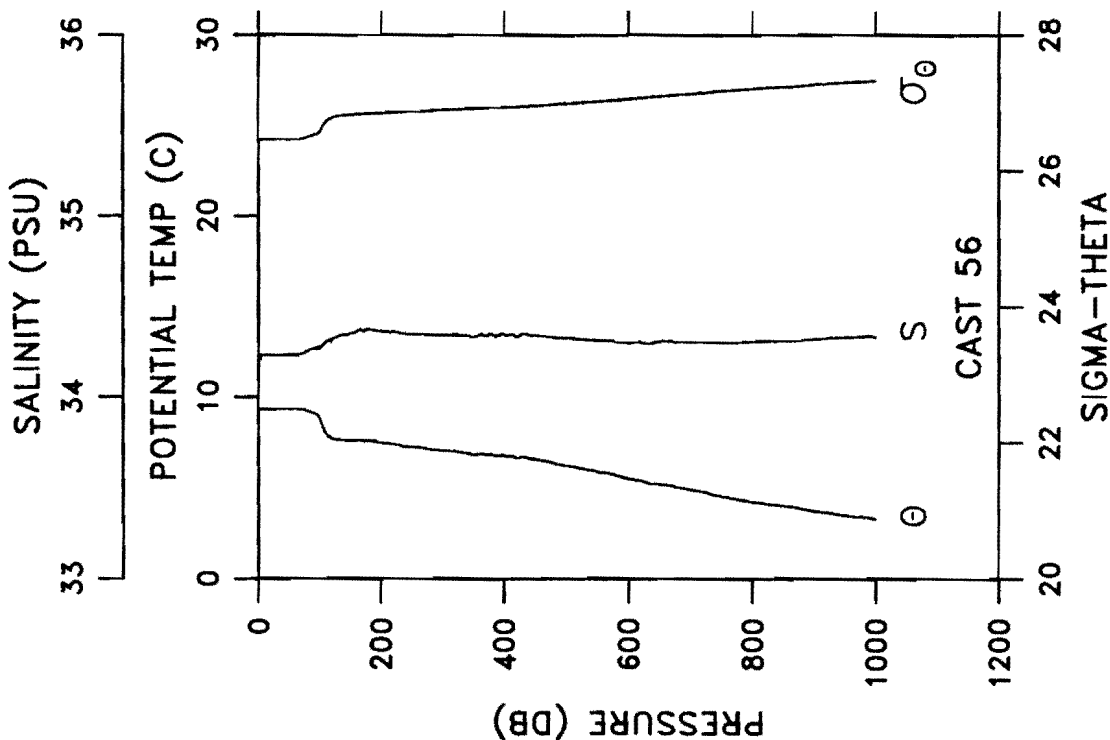
CAST CG1-90-MB -055 DATE 12 MAR 90 TIME 2212 GMT
 LAT 55 59.8S LONG 174 10.1W WEATHER 2 SEA STATE 5
 BAROMETER 03 WIND DIR 171 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 8 DRY 05.8 WET 03.6 DEPTH 4970 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	6.982	34.061	26.682	0.000
10	6.984	34.058	26.679	0.014
20	6.984	34.057	26.679	0.027
30	6.986	34.057	26.678	0.041
40	6.986	34.057	26.678	0.054
50	6.986	34.057	26.678	0.068
60	6.986	34.057	26.678	0.081
70	6.984	34.056	26.678	0.095
80	6.984	34.057	26.678	0.109
90	6.984	34.057	26.678	0.122
100	6.984	34.057	26.679	0.136
110	6.909	34.062	26.693	0.150
120	6.831	34.066	26.706	0.163
130	6.558	34.073	26.748	0.177
140	6.655	34.188	26.826	0.189
150	6.478	34.226	26.880	0.201
160	6.348	34.208	26.883	0.213
170	6.302	34.220	26.898	0.225
180	6.218	34.211	26.902	0.236
190	6.154	34.211	26.910	0.248
200	6.104	34.210	26.915	0.260
250	5.781	34.197	26.946	0.317
300	5.304	34.192	27.000	0.373
350	5.170	34.198	27.020	0.426
400	5.074	34.259	27.079	0.479
450	4.902	34.288	27.122	0.529
500	4.513	34.273	27.154	0.577
550	4.107	34.267	27.192	0.624
600	3.829	34.281	27.232	0.669
650	3.538	34.288	27.266	0.712
700	3.258	34.298	27.301	0.754
750	3.043	34.321	27.340	0.794
800	2.898	34.345	27.371	0.832
900	2.767	34.422	27.445	0.904
1000	2.604	34.467	27.495	0.971
1500	2.197	34.649	27.675	1.251
2000	1.902	34.725	27.759	1.480
2500	1.494	34.738	27.800	1.685
3000	1.110	34.729	27.820	1.875
3500	0.815	34.717	27.830	2.055
4000	0.610	34.709	27.836	2.228
4500	0.514	34.705	27.839	2.400
5000	0.471	34.703	27.840	2.576
5030	0.468	34.703	27.840	2.587

CAST CG1-90-MB -056 DATE 13 MAR 90 TIME 1304 GMT
LAT 53 56.9S LONG 176 09.5W

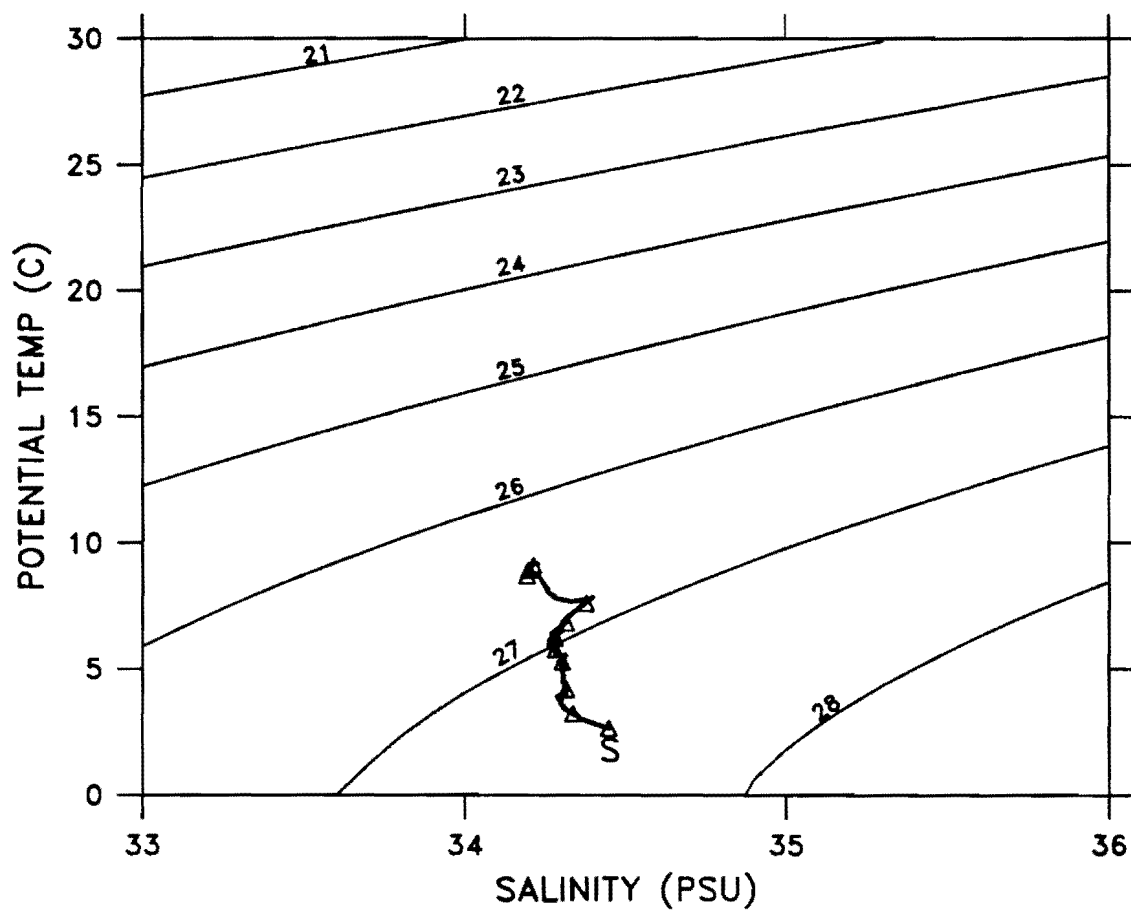




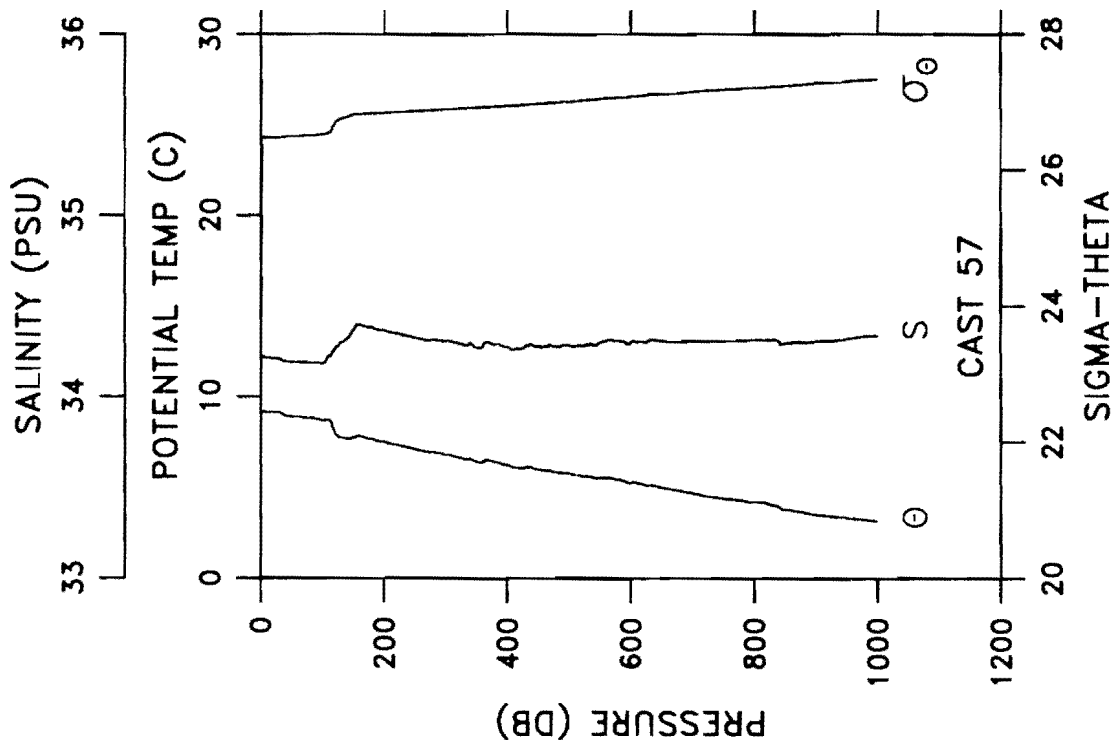
CST CG1-90-MB -056 DATE 13 MAR 90 TIME 1304 GMT
 LAT 53 56.9S LONG 176 09.5W WEATHER 2 SEA STATE 2
 BAROMETER 04 WIND DIR 270 T SPD 24 KT VISIBILITY 8
 CLOUD X AMOUNT 8 DRY 07.0 WET 06.0 DEPTH 5289 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	9.334	34.234	26.465	0.000
10	9.339	34.233	26.463	0.016
20	9.337	34.232	26.463	0.031
30	9.338	34.232	26.463	0.047
40	9.341	34.232	26.462	0.062
50	9.342	34.233	26.463	0.078
60	9.342	34.233	26.463	0.094
70	9.333	34.239	26.469	0.110
80	9.256	34.254	26.493	0.125
90	9.145	34.267	26.522	0.140
100	8.916	34.274	26.564	0.155
110	8.085	34.302	26.716	0.170
120	7.743	34.308	26.768	0.183
130	7.662	34.337	26.803	0.195
140	7.642	34.346	26.813	0.208
150	7.634	34.354	26.820	0.220
160	7.621	34.362	26.828	0.233
170	7.635	34.371	26.833	0.245
180	7.637	34.377	26.838	0.257
190	7.574	34.370	26.842	0.270
200	7.509	34.366	26.848	0.282
250	7.262	34.351	26.871	0.343
300	7.076	34.341	26.889	0.403
350	6.850	34.332	26.913	0.463
400	6.817	34.349	26.931	0.522
450	6.803	34.342	26.955	0.581
500	6.249	34.327	26.989	0.638
550	5.929	34.316	27.021	0.694
600	5.532	34.298	27.056	0.749
650	5.249	34.310	27.099	0.801
700	4.941	34.304	27.130	0.852
750	4.568	34.304	27.172	0.902
800	4.263	34.308	27.208	0.949
900	3.759	34.324	27.273	1.040
1000	3.318	34.336	27.325	1.124
1500	2.416	34.548	27.576	1.474
2000	2.142	34.678	27.703	1.743
2500	1.788	34.734	27.775	1.973
3000	1.377	34.737	27.808	2.181
3500	1.016	34.728	27.825	2.374
4000	0.744	34.716	27.833	2.558
4500	0.585	34.709	27.838	2.736
5000	0.493	34.705	27.841	2.914
5029	0.485	34.705	27.841	2.924

CAST CG1-90-MB -057 DATE 13 MAR 90 TIME 1643 GMT
LAT 53 54.2S LONG 176 03.3W

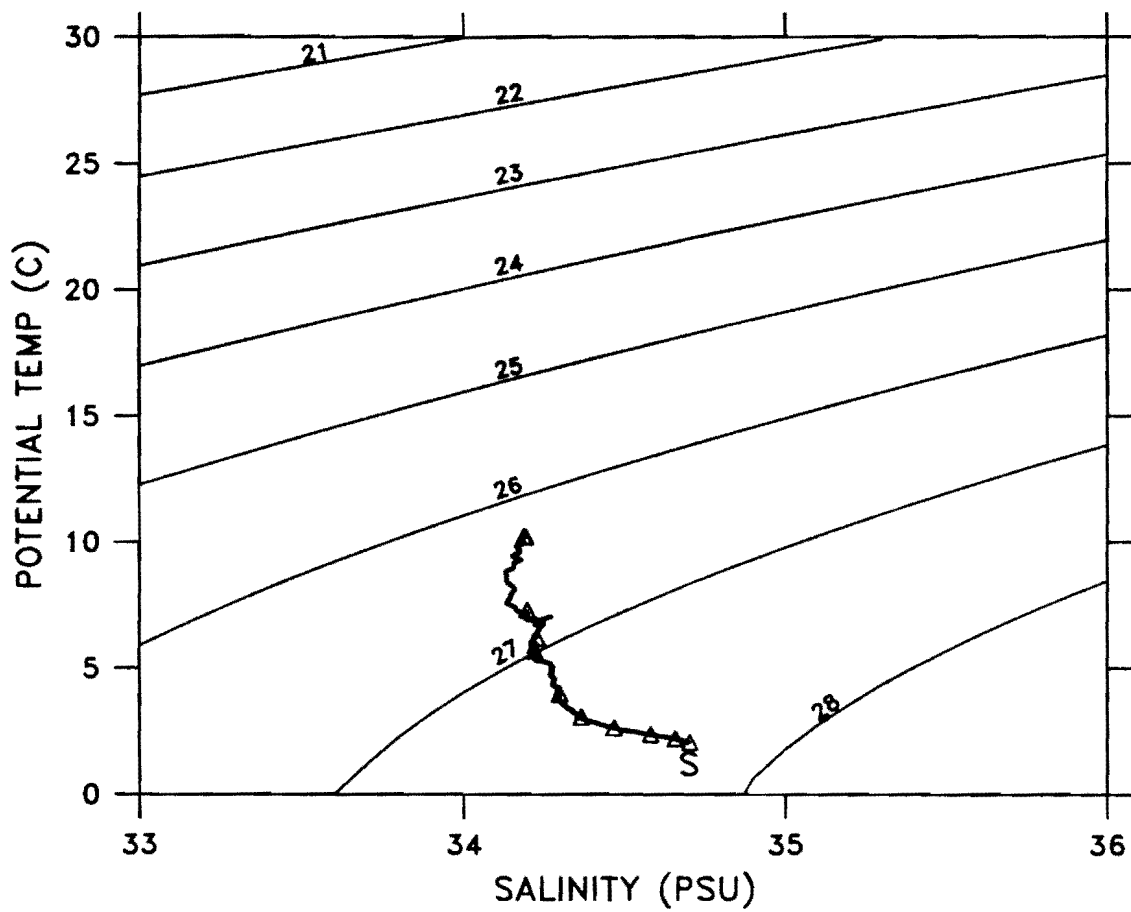


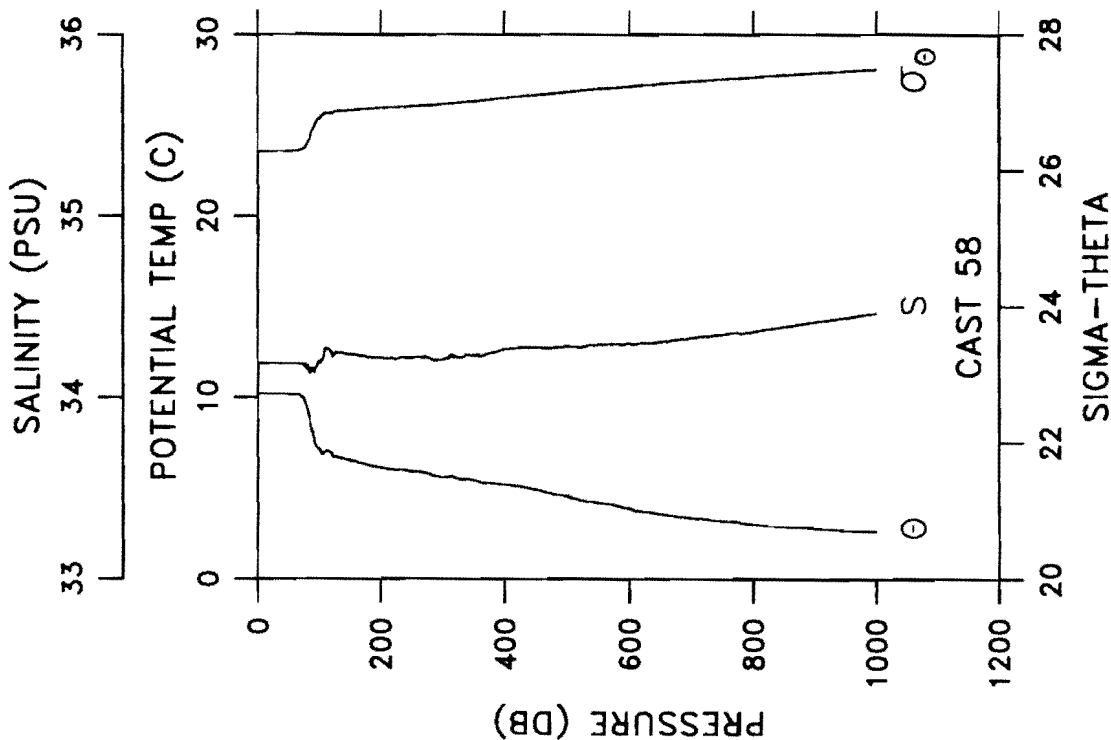
CST CG1-90-MB -057 DATE 13 MAR 90 TIME 1643 GMT
LAT 53 54.2S LONG 176 03.3W WEATHER 2 SEA STATE 3
BAROMETER 03 WIND DIR 280 T SPD 22 KT VISIBILITY 7
CLOUD 7 AMOUNT 8 DRY 07.5 WET 07.5 DEPTH 5310 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	9.155	34.225	26.486	0.000
10	9.158	34.214	26.477	0.015
20	9.135	34.211	26.479	0.031
30	9.137	34.210	26.478	0.046
40	8.961	34.193	26.493	0.062
50	8.911	34.192	26.499	0.077
60	8.896	34.191	26.501	0.092
70	8.856	34.189	26.506	0.108
80	8.824	34.188	26.510	0.123
90	8.780	34.187	26.516	0.138
100	8.695	34.182	26.526	0.154
110	8.727	34.224	26.554	0.169
120	8.019	34.258	26.689	0.183
130	7.752	34.298	26.760	0.196
140	7.688	34.319	26.785	0.209
150	7.740	34.366	26.815	0.222
160	7.834	34.397	26.825	0.234
170	7.729	34.386	26.832	0.247
180	7.687	34.384	26.837	0.259
190	7.571	34.367	26.840	0.271
200	7.522	34.365	26.845	0.284
250	7.121	34.325	26.870	0.345
300	6.810	34.306	26.899	0.405
350	6.426	34.271	26.922	0.464
400	6.248	34.274	26.948	0.522
450	6.022	34.280	26.981	0.580
500	5.800	34.283	27.011	0.635
550	5.536	34.297	27.055	0.690
600	5.261	34.293	27.084	0.743
650	5.020	34.307	27.124	0.794
700	4.738	34.306	27.155	0.844
750	4.428	34.306	27.189	0.892
800	4.230	34.311	27.214	0.939
900	3.526	34.304	27.280	1.028
1000	3.194	34.335	27.336	1.111
1250	2.635	34.447	27.476	1.295

CAST CG1-90-MB -058 DATE 15 MAR 90 TIME 0620 GMT
LAT 50 30.3S LONG 179 23.7W

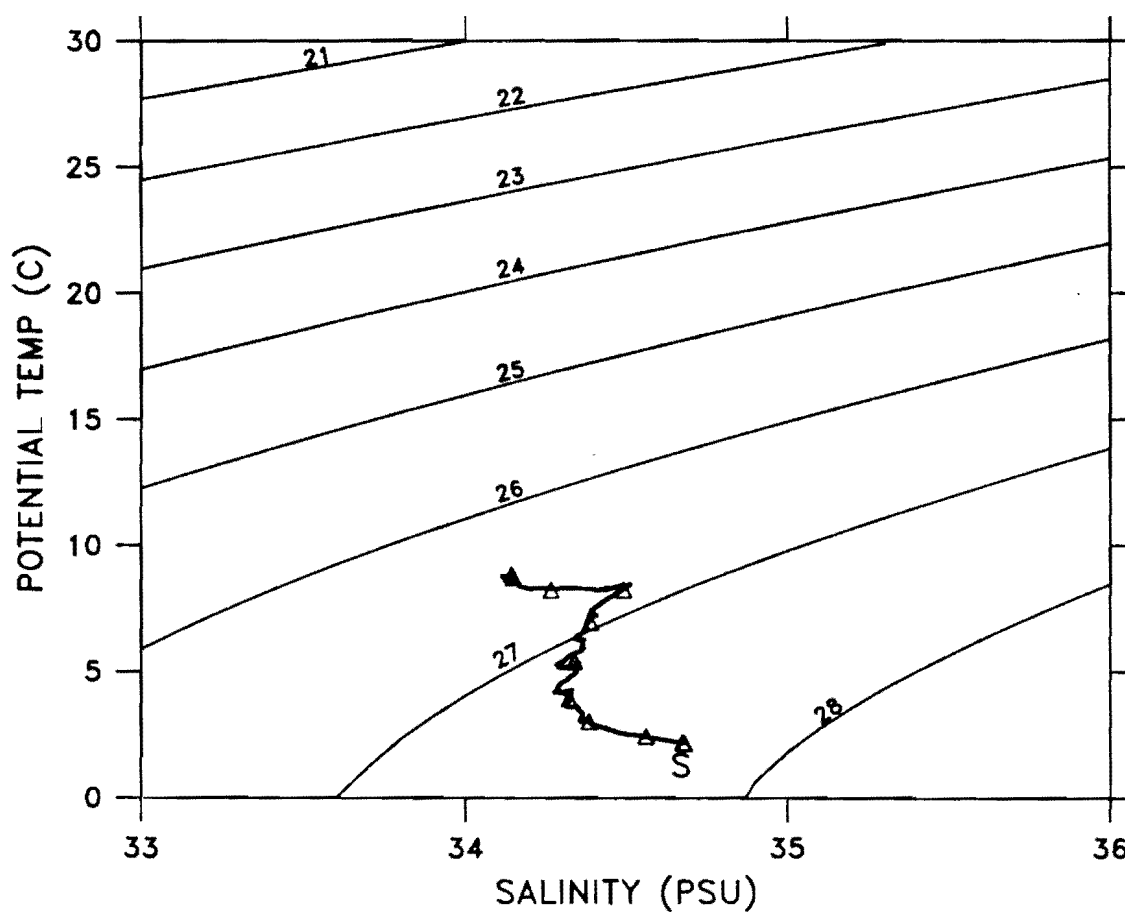


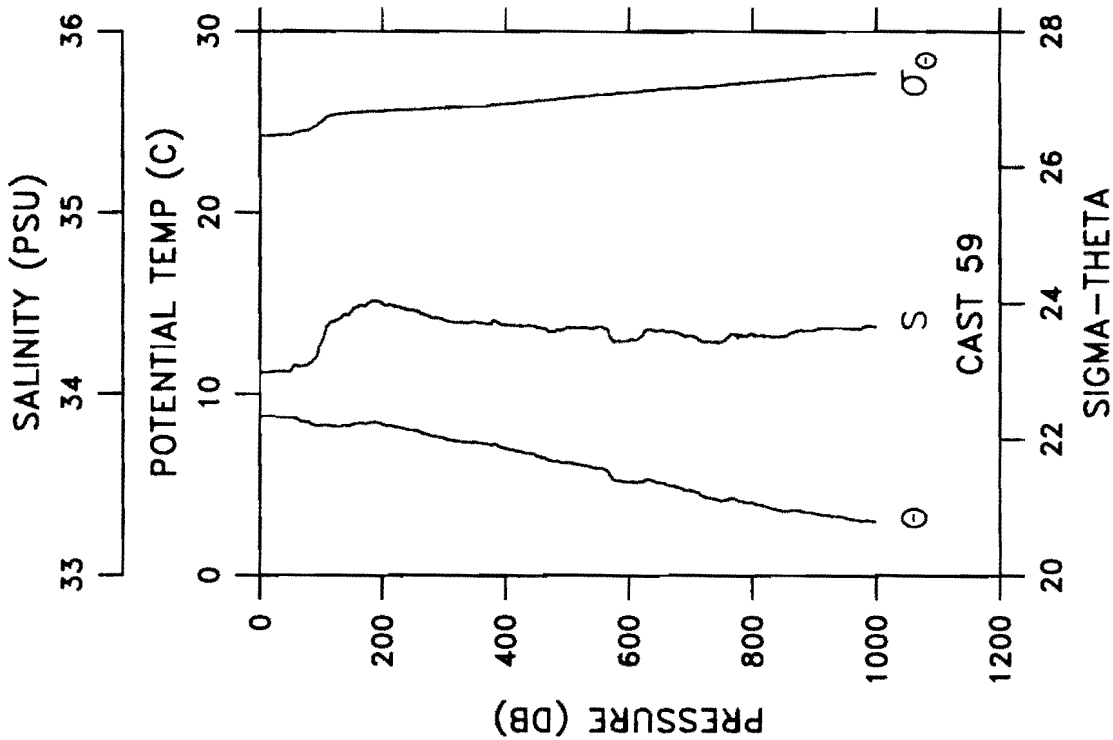


CAST CG1-90-MB -058 DATE 15 MAR 90 TIME 0620 GMT
 LAT 50 30.3S LONG 179 23.7W WEATHER 2 SEA STATE 3
 BAROMETER 15 WIND DIR 270 T SPD 18 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 12.0 WET 11.5 DEPTH 4448 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	10.205	34.182	26.279	0.000
10	10.203	34.185	26.281	0.017
20	10.203	34.185	26.282	0.035
30	10.204	34.185	26.281	0.052
40	10.190	34.186	26.284	0.069
50	10.176	34.186	26.287	0.087
60	10.169	34.188	26.288	0.104
70	10.102	34.184	26.298	0.121
80	9.578	34.175	26.379	0.138
90	8.121	34.160	26.596	0.154
100	7.183	34.195	26.760	0.168
110	6.957	34.253	26.836	0.180
120	6.960	34.254	26.837	0.193
130	6.724	34.250	26.865	0.205
140	6.635	34.241	26.870	0.217
150	6.519	34.234	26.880	0.229
160	6.464	34.233	26.887	0.240
170	6.354	34.228	26.897	0.252
180	6.249	34.220	26.905	0.264
190	6.193	34.217	26.910	0.275
200	6.141	34.219	26.918	0.287
250	5.929	34.215	26.942	0.344
300	5.605	34.207	26.975	0.401
350	5.439	34.234	27.016	0.455
400	5.215	34.265	27.068	0.508
450	4.934	34.275	27.108	0.559
500	4.601	34.280	27.150	0.608
550	4.200	34.289	27.200	0.654
600	3.901	34.297	27.238	0.699
650	3.598	34.307	27.275	0.742
700	3.377	34.330	27.315	0.783
750	3.206	34.346	27.344	0.823
800	3.017	34.363	27.375	0.861
900	2.802	34.417	27.437	0.934
1000	2.640	34.466	27.491	1.001
1500	2.212	34.652	27.676	1.278
1755	2.058	34.700	27.727	1.398

CAST CG1-90-MB -059 DATE 15 MAR 90 TIME 1420 GMT
LAT 49 29.9S LONG 179 44.7E

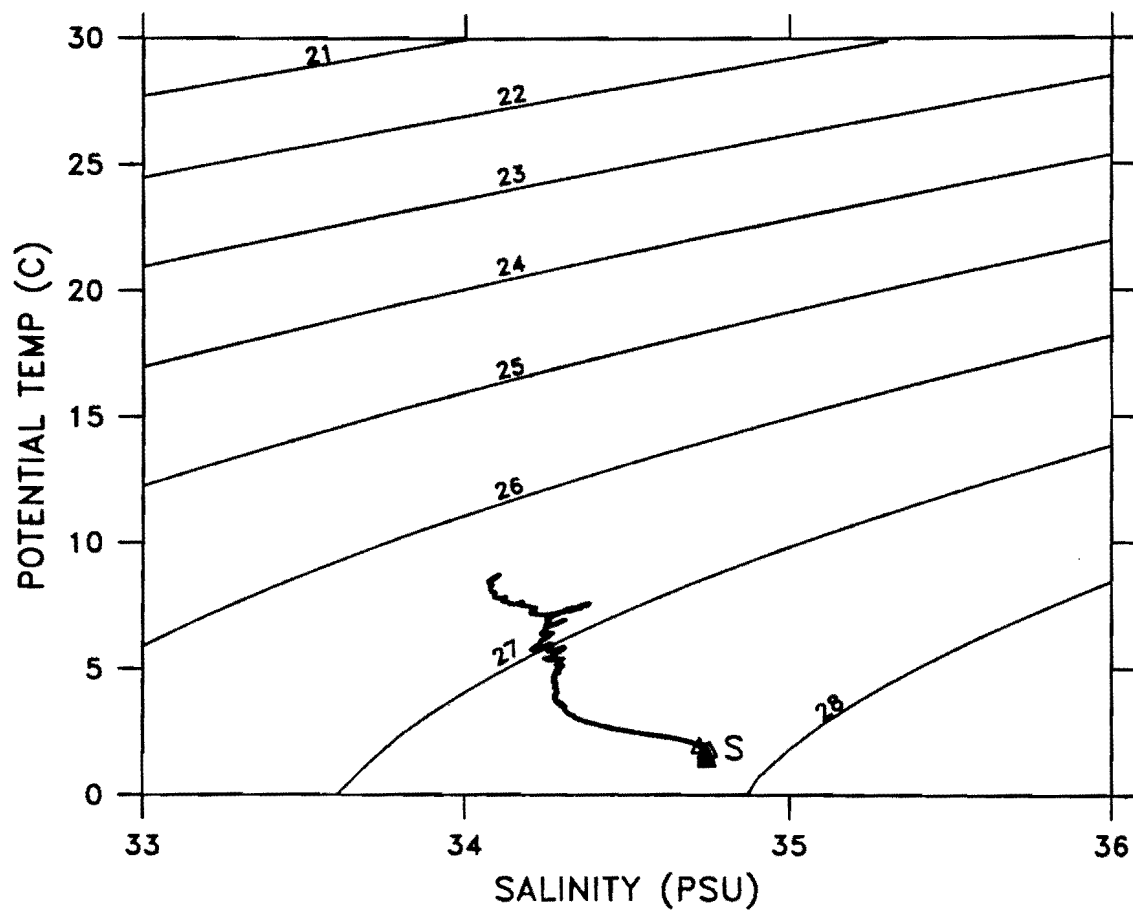




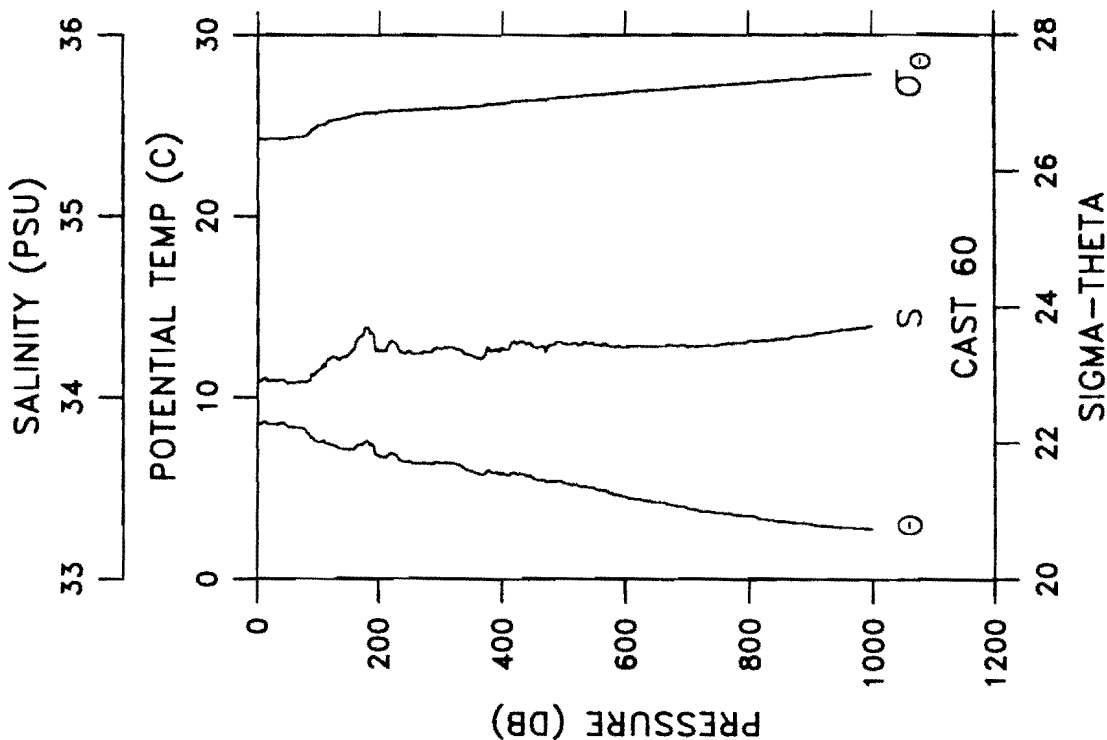
CAST CG1-90-MB -059 DATE 15 MAR 90 TIME 1420 GMT
 LAT 49 29.9S LONG 179 44.7E WEATHER 2 SEA STATE 2
 BAROMETER 14 WIND DIR 337 T SPD 18 KT VISIBILITY 8
 CLOUD X AMOUNT 8 DRY 10.0 WET 10.0 DEPTH 2012 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	8.766	34.115	26.462	0.000
10	8.763	34.117	26.464	0.016
20	8.765	34.119	26.466	0.031
30	8.729	34.125	26.476	0.047
40	8.716	34.123	26.477	0.062
50	8.691	34.121	26.478	0.078
60	8.652	34.157	26.513	0.093
70	8.497	34.153	26.533	0.108
80	8.458	34.165	26.549	0.123
90	8.293	34.193	26.596	0.138
100	8.280	34.266	26.655	0.152
110	8.271	34.374	26.742	0.166
120	8.241	34.398	26.765	0.179
130	8.211	34.414	26.782	0.192
140	8.288	34.442	26.792	0.204
150	8.287	34.452	26.800	0.217
160	8.379	34.453	26.810	0.230
170	8.376	34.487	26.814	0.242
180	8.411	34.505	26.823	0.255
190	8.434	34.513	26.825	0.267
200	8.343	34.499	26.829	0.280
250	8.023	34.465	26.850	0.342
300	7.569	34.408	26.872	0.404
350	7.347	34.399	26.897	0.464
400	7.017	34.382	26.929	0.524
450	6.611	34.369	26.975	0.582
500	6.247	34.368	27.022	0.638
550	5.918	34.370	27.065	0.692
600	5.159	34.294	27.097	0.745
650	5.117	34.351	27.147	0.795
700	4.712	34.323	27.171	0.844
750	4.154	34.288	27.204	0.891
800	4.052	34.333	27.250	0.937
900	3.453	34.354	27.327	1.022
1000	3.010	34.374	27.385	1.100
1500	2.352	34.583	27.608	1.421
1987	2.145	34.672	27.697	1.673

CAST CG1-90-MB -060 DATE 16 MAR 90 TIME 0724 GMT
LAT 49 43.5S LONG 179 59.9W

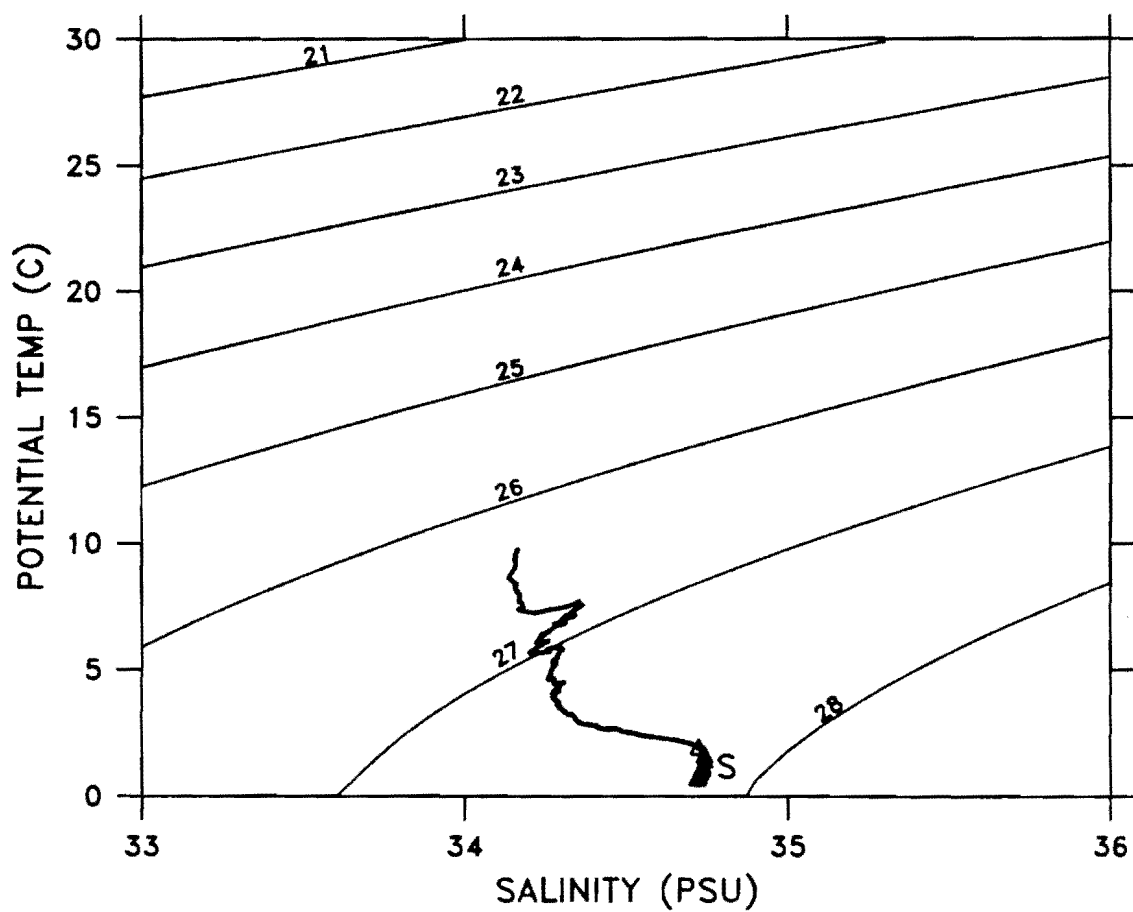


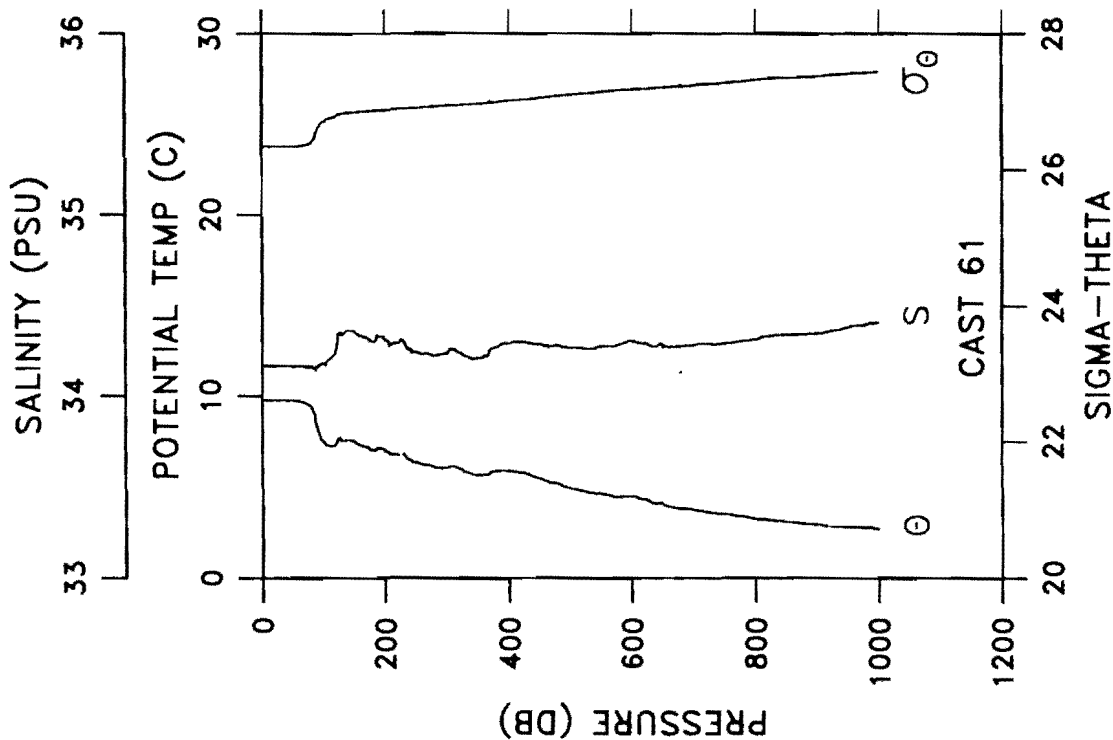
CST CG1-90-MB -060 DATE 16 MAR 90 TIME 0724 GMT
 LAT 49 43.5S LONG 179 59.9W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 267 T SPD 16 KT VISIBILITY 7
 CLOUD 4 AMOUNT 2 DRY 09.4 WET 09.4 DEPTH 3111 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	8.565	34.085	26.470	0.000
10	8.662	34.100	26.467	0.015
20	8.544	34.093	26.480	0.031
30	8.541	34.092	26.479	0.046
40	8.569	34.096	26.478	0.062
50	8.395	34.080	26.492	0.077
60	8.363	34.080	26.497	0.093
70	8.327	34.084	26.506	0.108
80	8.122	34.080	26.533	0.123
90	7.814	34.125	26.615	0.138
100	7.545	34.149	26.672	0.152
110	7.546	34.167	26.686	0.166
120	7.418	34.211	26.739	0.179
130	7.288	34.213	26.759	0.192
140	7.174	34.218	26.779	0.205
150	7.129	34.232	26.796	0.218
160	7.138	34.268	26.823	0.230
170	7.389	34.336	26.842	0.243
180	7.560	34.384	26.855	0.255
190	7.370	34.356	26.860	0.267
200	6.770	34.258	26.866	0.279
250	6.477	34.251	26.899	0.339
300	6.382	34.266	26.924	0.397
350	5.944	34.227	26.949	0.455
400	5.829	34.271	26.998	0.512
450	5.589	34.285	27.039	0.566
500	5.337	34.298	27.080	0.618
550	5.028	34.297	27.115	0.669
600	4.548	34.277	27.153	0.719
650	4.228	34.279	27.189	0.766
700	3.930	34.280	27.221	0.812
750	3.660	34.285	27.252	0.856
800	3.513	34.310	27.286	0.899
900	3.057	34.342	27.355	0.980
1000	2.808	34.395	27.420	1.054
1500	2.277	34.622	27.646	1.358
2000	1.961	34.718	27.749	1.596
2500	1.587	34.736	27.792	1.806
3000	1.423	34.735	27.803	2.007
3088	1.406	34.735	27.804	2.043

CAST CG1-90-MB -061 DATE 16 MAR 90 TIME 1146 GMT
LAT 49 50.9S LONG 179 52.7W

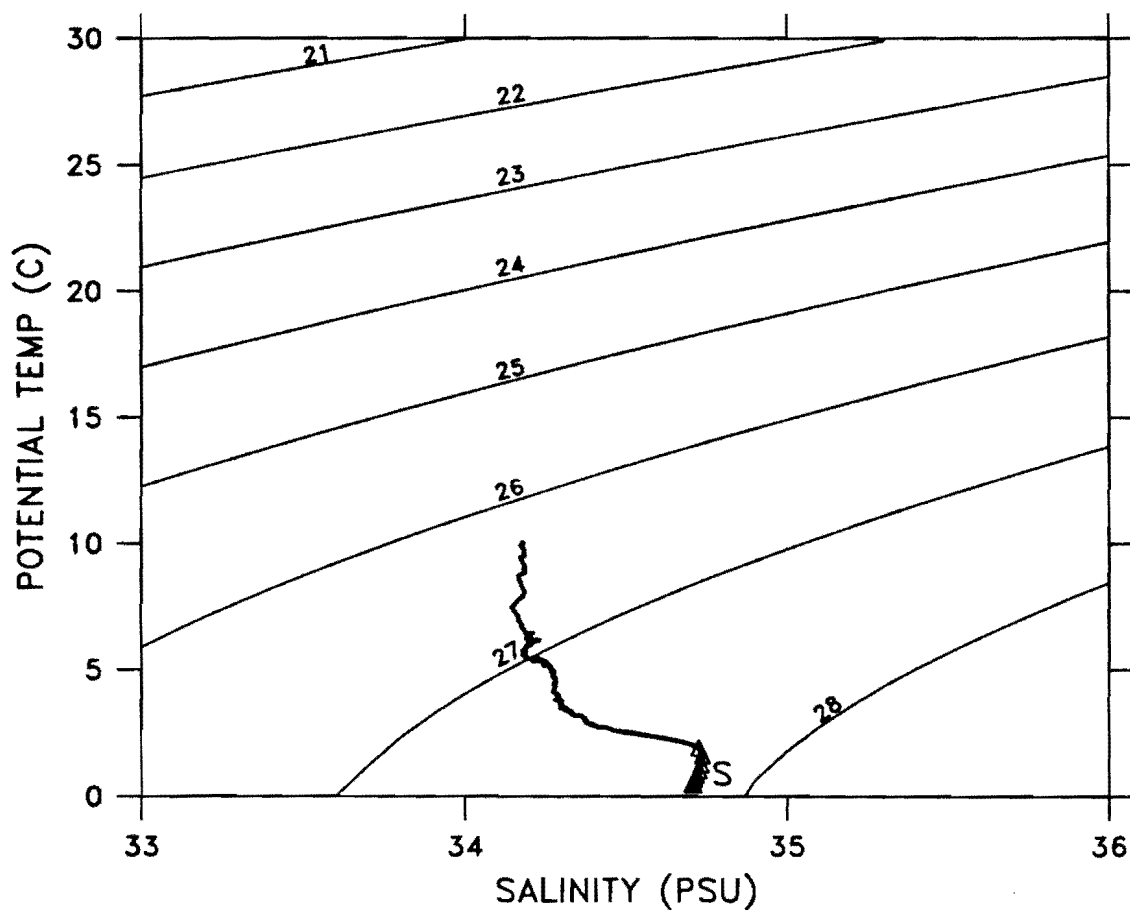




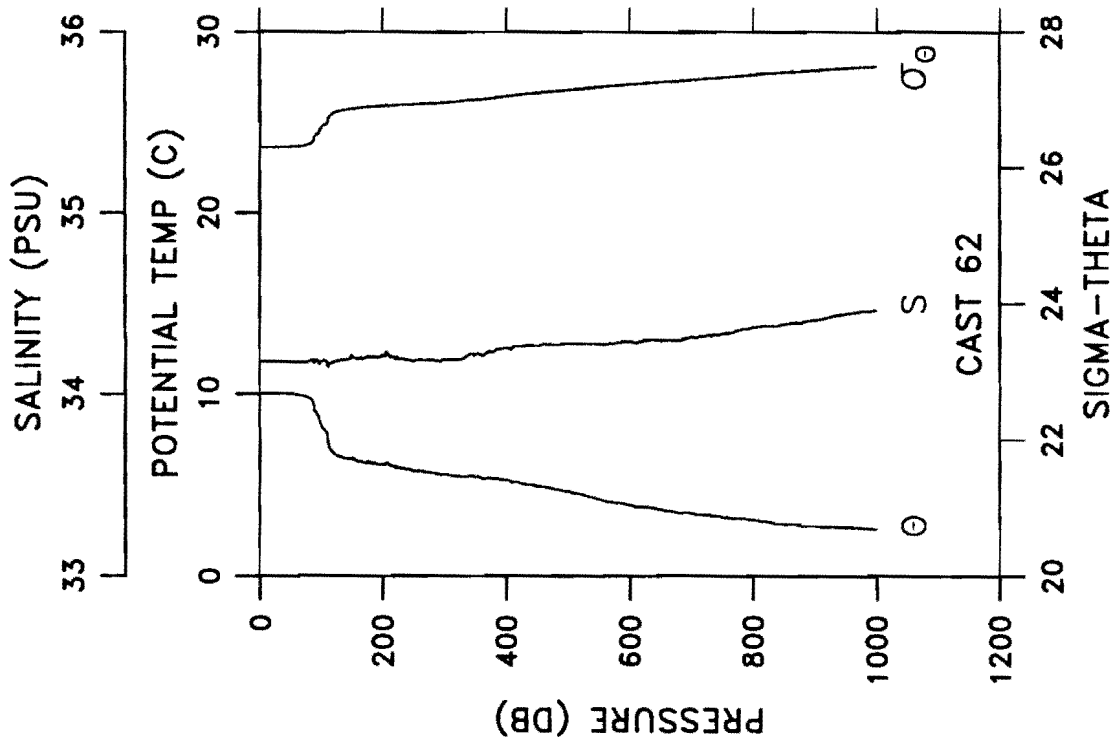
CAST CG1-90-MB -061 DATE 16 MAR 90 TIME 1146 GMT
 LAT 49 50.9S LONG 179 52.7W WEATHER 0 SEA STATE 2
 BAROMETER 12 WIND DIR 284 T SPD 21 KT VISIBILITY 8
 CLOUD 0 AMOUNT 0 DRY 10.0 WET 09.7 DEPTH 4030 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	9.764	34.162	26.338	0.000
10	9.765	34.163	26.339	0.017
20	9.764	34.164	26.339	0.034
30	9.762	34.164	26.340	0.050
40	9.764	34.164	26.339	0.067
50	9.763	34.164	26.339	0.084
60	9.712	34.164	26.348	0.101
70	9.631	34.161	26.359	0.118
80	9.388	34.154	26.393	0.134
90	8.144	34.159	26.592	0.150
100	7.481	34.180	26.708	0.164
110	7.273	34.205	26.755	0.177
120	7.369	34.255	26.781	0.190
130	7.546	34.343	26.825	0.202
140	7.578	34.365	26.837	0.214
150	7.510	34.358	26.841	0.227
160	7.314	34.336	26.852	0.239
170	7.226	34.328	26.857	0.251
180	7.042	34.303	26.864	0.263
190	7.143	34.333	26.874	0.275
200	7.031	34.317	26.877	0.287
250	6.352	34.242	26.909	0.346
300	6.070	34.235	26.940	0.404
350	5.677	34.212	26.970	0.461
400	5.886	34.292	27.008	0.517
450	5.494	34.289	27.054	0.571
500	4.950	34.267	27.100	0.622
550	4.660	34.270	27.135	0.672
600	4.507	34.305	27.180	0.720
650	4.088	34.276	27.202	0.766
700	3.764	34.281	27.238	0.811
750	3.521	34.291	27.270	0.854
800	3.247	34.314	27.315	0.896
900	2.954	34.348	27.369	0.974
1000	2.718	34.409	27.438	1.047
1500	2.268	34.621	27.647	1.347
2000	1.947	34.720	27.751	1.585
2500	1.586	34.737	27.793	1.796
3000	1.224	34.730	27.814	1.993
3500	0.905	34.720	27.826	2.180
4000	0.753	34.714	27.832	2.362
4057	0.734	34.713	27.832	2.382

CAST CG1-90-MB -062 DATE 18 MAR 90 TIME 0704 GMT
LAT 50 29.0S LONG 179 21.4W

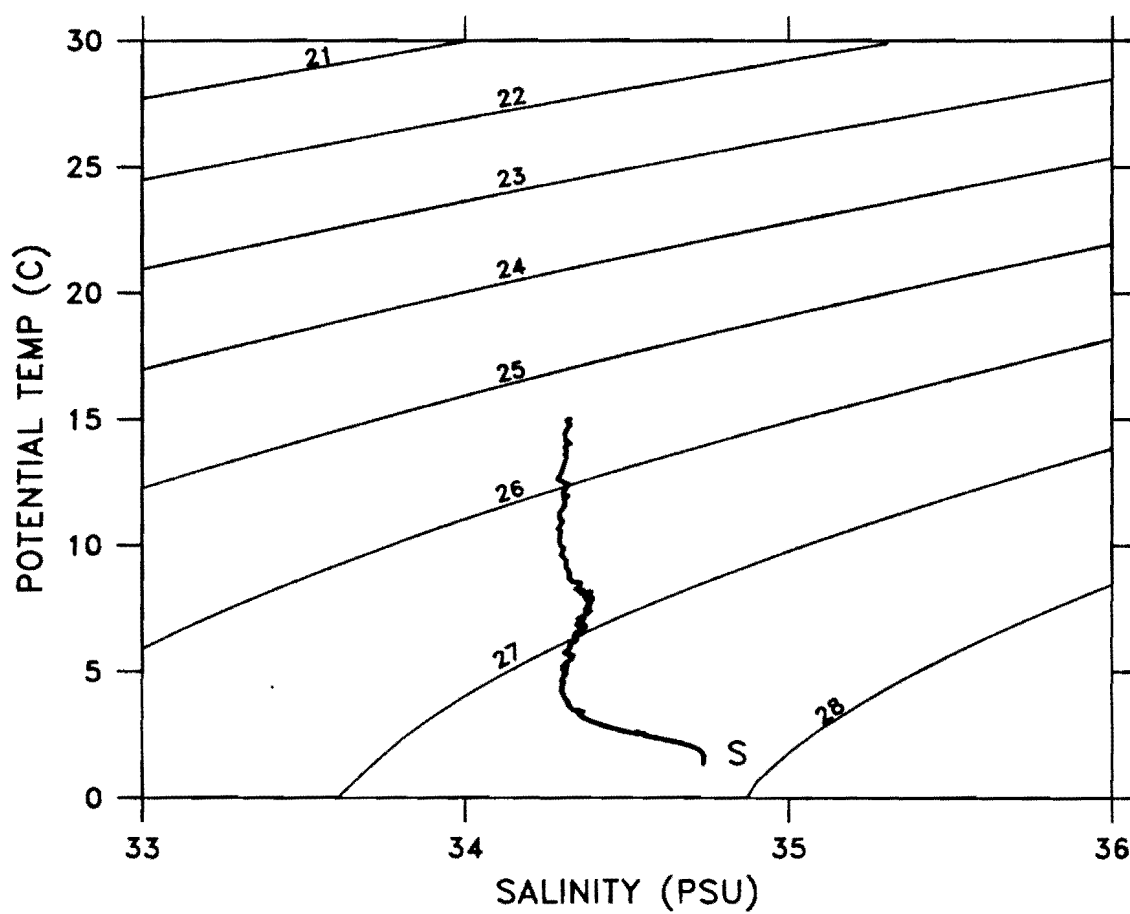


CAST CG1-90-MB -062 DATE 18 MAR 90 TIME 0704 GMT
 LAT 50 29.0S LONG 179 21.4W WEATHER 1 SEA STATE 5
 BAROMETER 19 WIND DIR 285 T SPD 22 KT VISIBILITY 7
 CLOUD 6 AMOUNT 4 DRY 11.0 WET 11.0 DEPTH 4458 M

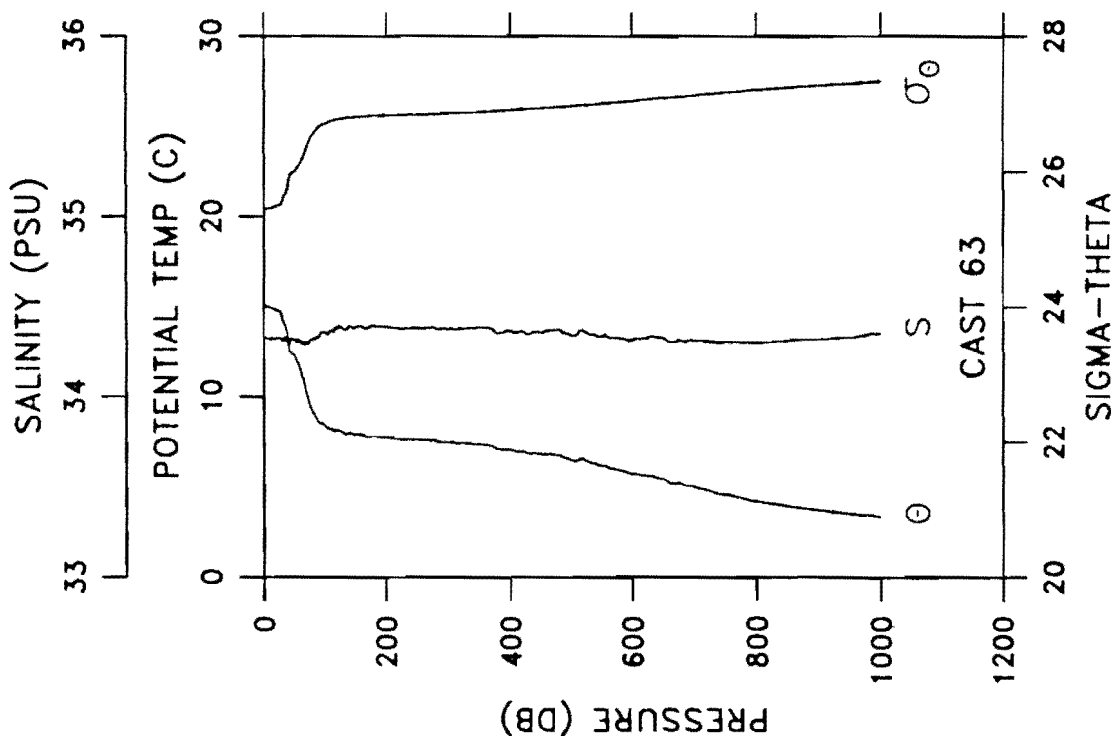


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	10.037	34.178	26.304	0.000
10	10.038	34.178	26.304	0.017
20	10.036	34.178	26.304	0.034
30	10.031	34.178	26.305	0.051
40	10.026	34.178	26.306	0.068
50	10.002	34.179	26.311	0.086
60	9.980	34.177	26.313	0.103
70	9.909	34.173	26.322	0.120
80	9.787	34.179	26.347	0.137
90	9.066	34.185	26.470	0.153
100	8.296	34.174	26.581	0.169
110	7.806	34.167	26.649	0.183
120	6.768	34.177	26.802	0.196
130	6.576	34.184	26.833	0.208
140	6.460	34.167	26.851	0.220
150	6.466	34.212	26.870	0.232
160	6.288	34.189	26.875	0.244
170	6.227	34.197	26.889	0.256
180	6.218	34.201	26.894	0.268
190	6.150	34.200	26.902	0.280
200	6.137	34.209	26.910	0.291
250	5.762	34.181	26.936	0.349
300	5.589	34.167	26.962	0.406
350	5.447	34.219	27.004	0.461
400	5.283	34.254	27.051	0.515
450	4.954	34.267	27.100	0.566
500	4.676	34.281	27.142	0.615
550	4.241	34.277	27.186	0.663
600	3.905	34.288	27.230	0.708
650	3.657	34.296	27.261	0.751
700	3.455	34.317	27.298	0.793
750	3.241	34.334	27.331	0.834
800	3.092	34.369	27.373	0.873
900	2.770	34.411	27.436	0.945
1000	2.591	34.464	27.494	1.012
1500	2.214	34.652	27.675	1.291
2000	1.919	34.723	27.756	1.521
2500	1.491	34.738	27.801	1.727
3000	1.097	34.729	27.821	1.917
3500	0.778	34.716	27.831	2.096
4000	0.561	34.708	27.838	2.266
4500	0.462	34.705	27.842	2.434
4532	0.459	34.704	27.842	2.445

CAST CG1-90-MB -063 DATE 20 MAR 90 TIME 0005 GMT
LAT 46 20.0S LONG 179 28.9E

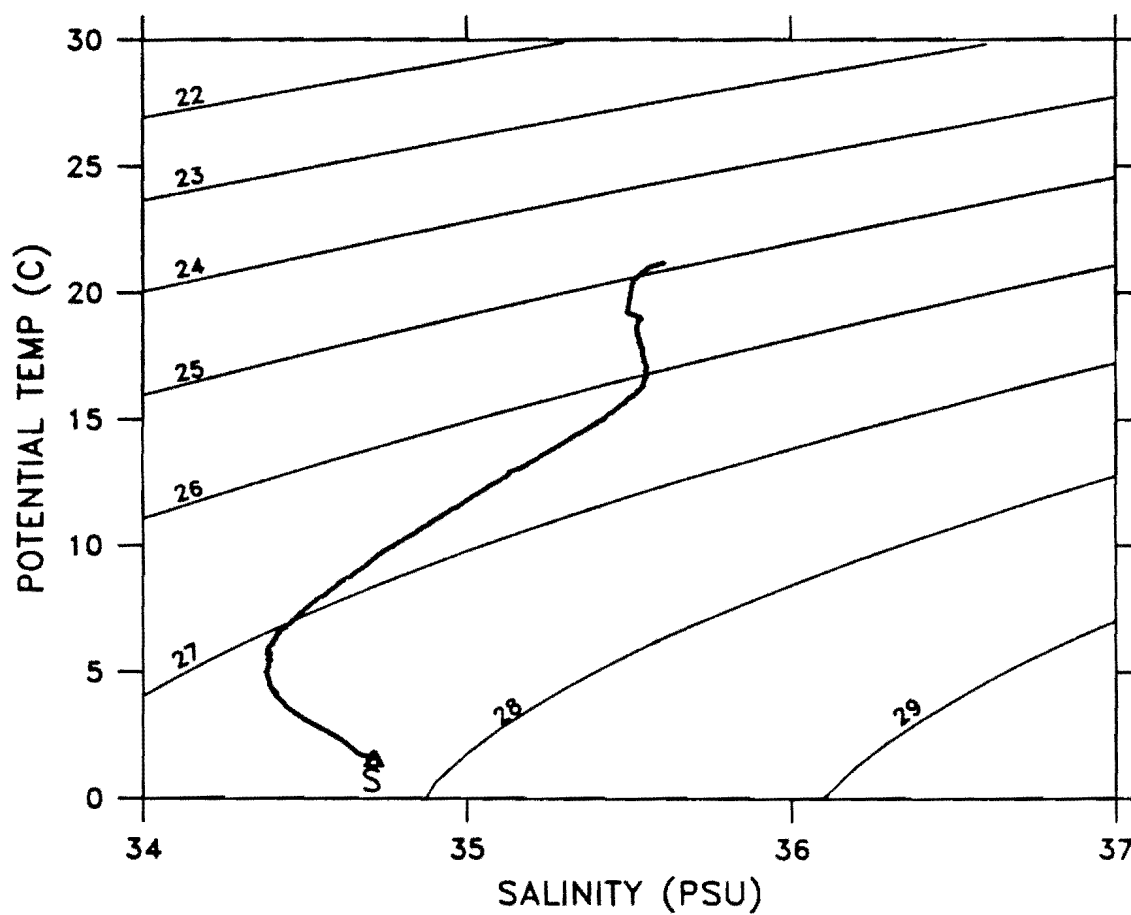


CAST CG1-90-MB -063 DATE 20 MAR 90 TIME 0005 GMT
 LAT 46 20.0S LONG 179 28.9E WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 145 T SPD 14 KT VISIBILITY 8
 CLOUD 3 AMOUNT 7 DRY 13.0 WET 14.0 DEPTH 3317 M

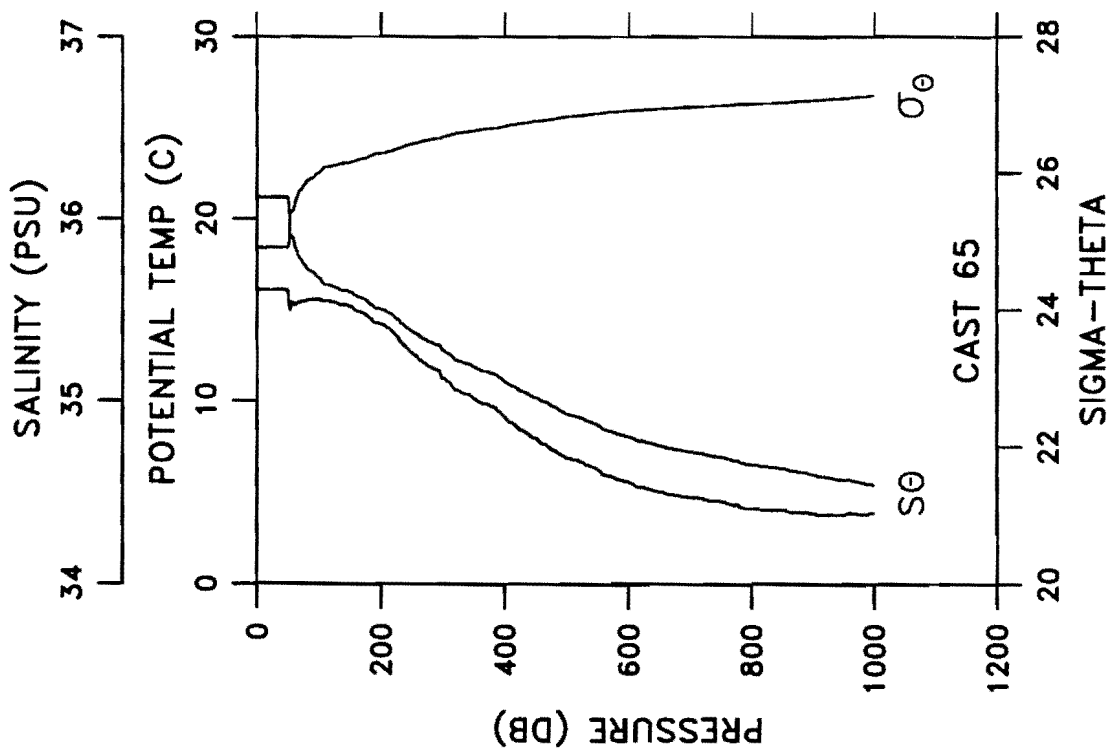


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	15.019	34.322	25.446	0.000
10	14.957	34.312	25.452	0.025
20	14.794	34.319	25.493	0.050
30	14.362	34.308	25.577	0.075
40	12.842	34.296	25.879	0.098
50	12.293	34.314	26.001	0.118
60	11.440	34.299	26.150	0.138
70	10.130	34.292	26.377	0.155
80	9.139	34.312	26.557	0.171
90	8.564	34.330	26.662	0.185
100	8.396	34.354	26.707	0.199
110	8.202	34.367	26.747	0.212
120	8.093	34.386	26.778	0.225
130	7.991	34.375	26.785	0.238
140	7.971	34.390	26.799	0.250
150	7.901	34.386	26.806	0.263
160	7.906	34.391	26.810	0.276
170	7.798	34.387	26.823	0.288
180	7.818	34.393	26.824	0.301
190	7.774	34.388	26.827	0.313
200	7.746	34.390	26.832	0.326
250	7.639	34.383	26.842	0.388
300	7.477	34.373	26.858	0.450
350	7.380	34.388	26.884	0.511
400	7.079	34.367	26.909	0.571
450	6.821	34.355	26.935	0.631
500	6.495	34.340	26.967	0.689
550	6.183	34.336	27.004	0.746
600	5.713	34.307	27.041	0.802
650	5.424	34.322	27.088	0.855
700	5.008	34.309	27.126	0.906
750	4.617	34.306	27.168	0.956
800	4.212	34.299	27.207	1.003
900	3.713	34.318	27.273	1.093
1000	3.368	34.353	27.334	1.178
1500	2.517	34.556	27.574	1.525
2000	2.111	34.678	27.705	1.795
2500	1.793	34.730	27.771	2.026
3000	1.330	34.735	27.810	2.234
3001	1.330	34.735	27.810	2.235

CAST CG2-90-MB -065 DATE 28 MAR 90 TIME 0948 GMT
LAT 34 38.9S LONG 178 38.2W

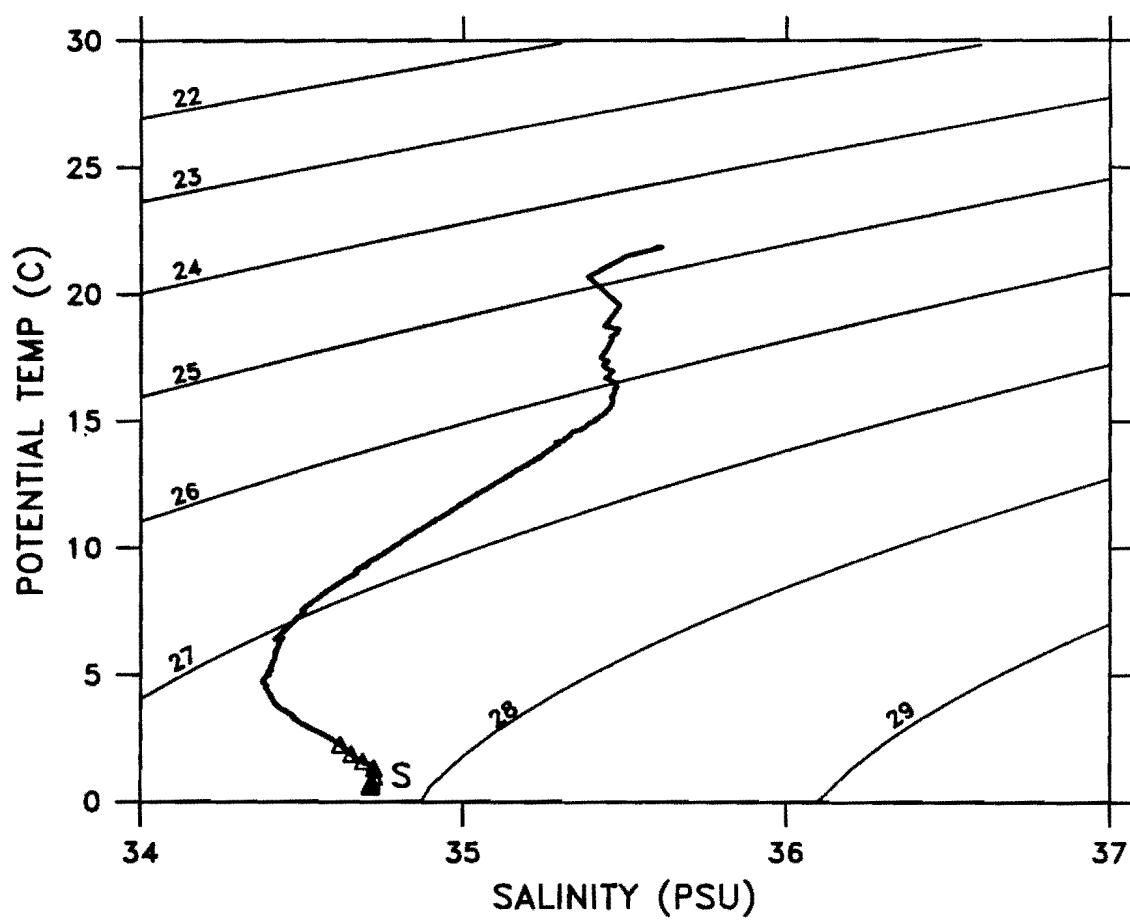


CAST 65-90-MB -065 DATE 28 MAR 90 TIME 0948 GMT
 LAT 34 38.9S LONG 178 38.2W WEATHER 1 SEA STATE 3
 BAROMETER 24 WIND DIR 144 T SPD 23 KT VISIBILITY 8
 CLOUD 4 AMOUNT 6 DRY 20.3 WET 17.7 DEPTH 6556 M

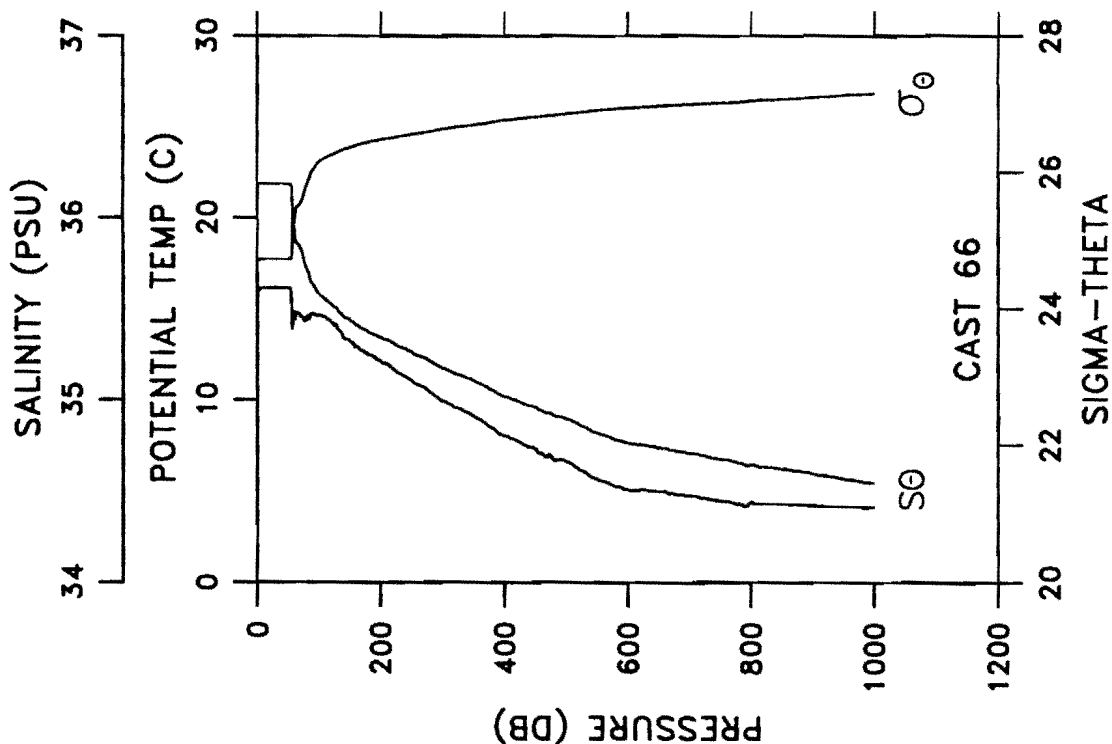


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.184	35.611	24.910	0.000
10	21.190	35.609	24.907	0.030
20	21.186	35.609	24.908	0.061
30	21.189	35.610	24.908	0.091
40	21.189	35.610	24.908	0.122
50	21.184	35.609	24.908	0.152
60	18.757	35.531	25.490	0.179
70	17.805	35.545	25.739	0.203
80	17.284	35.547	25.867	0.225
90	17.059	35.558	25.930	0.246
100	16.760	35.559	26.002	0.267
110	16.365	35.549	26.087	0.287
120	16.289	35.543	26.100	0.306
130	16.186	35.536	26.118	0.326
140	16.051	35.526	26.142	0.345
150	15.949	35.514	26.156	0.364
160	15.756	35.495	26.185	0.383
170	15.620	35.482	26.206	0.401
180	15.377	35.458	26.242	0.420
190	15.098	35.429	26.282	0.438
200	15.015	35.420	26.293	0.456
250	13.829	35.265	26.429	0.542
300	12.799	35.128	26.533	0.624
350	11.900	35.014	26.620	0.700
400	11.103	34.912	26.689	0.774
450	10.183	34.797	26.763	0.845
500	9.300	34.691	26.828	0.912
550	8.697	34.623	26.871	0.977
600	8.062	34.558	26.918	1.040
650	7.576	34.503	26.946	1.101
700	7.248	34.475	26.970	1.162
750	6.957	34.453	26.994	1.221
800	6.542	34.413	27.018	1.279
900	5.986	34.384	27.068	1.393
1000	5.414	34.388	27.141	1.501
1500	3.046	34.505	27.486	1.935
2000	2.272	34.613	27.640	2.240
2500	1.938	34.643	27.691	2.509
3000	1.585	34.700	27.763	2.756
3000	1.585	34.700	27.763	2.756

CAST CG2-90-MB -066 DATE 28 MAR 90 TIME 2141 GMT
LAT 32 29.8S LONG 178 18.8W

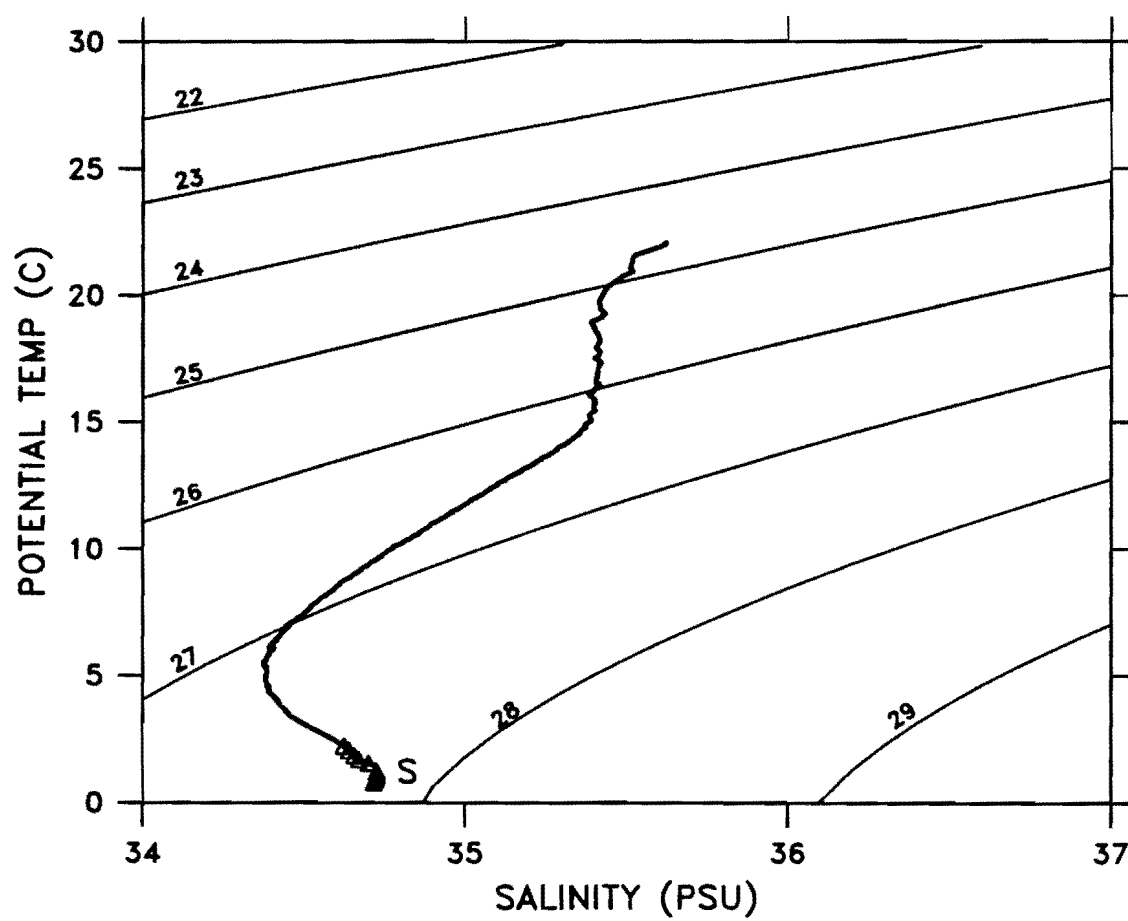


CAST CG2-90-MB -066 DATE 28 MAR 90 TIME 2141 GMT
 LAT 32 29.8S LONG 178 18.8W WEATHER 2 SEA STATE 4
 BAROMETER 22 WIND DIR 124 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 22.2 WET 19.2 DEPTH 4994 M

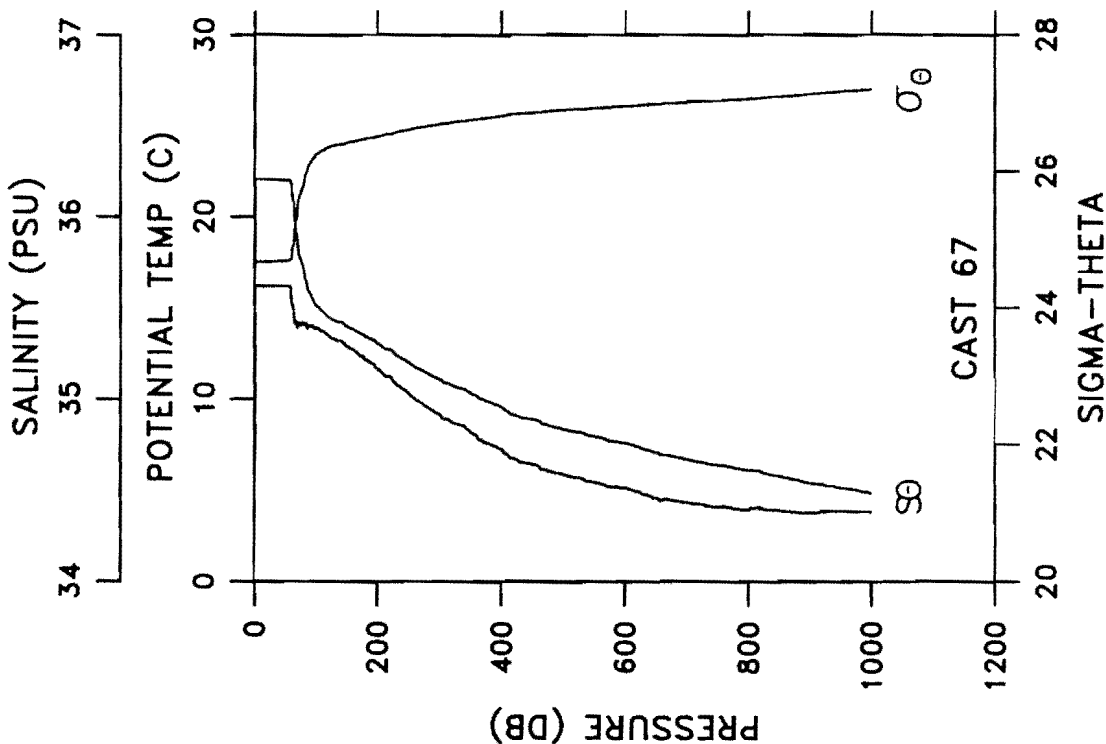


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.862	35.809	24.721	0.000
10	21.861	35.612	24.723	0.032
20	21.861	35.613	24.724	0.064
30	21.860	35.612	24.724	0.097
40	21.859	35.611	24.723	0.129
50	21.852	35.611	24.725	0.161
60	19.491	35.480	25.263	0.192
70	18.321	35.454	25.541	0.217
80	17.217	35.432	25.795	0.241
90	16.344	35.474	26.034	0.262
100	15.810	35.462	26.147	0.281
110	15.518	35.452	26.206	0.300
120	15.229	35.428	26.252	0.318
130	14.970	35.397	26.286	0.336
140	14.589	35.336	26.322	0.353
150	14.405	35.326	26.353	0.370
160	14.090	35.295	26.397	0.387
170	13.901	35.270	26.417	0.404
180	13.709	35.248	26.440	0.420
190	13.545	35.234	26.464	0.437
200	13.416	35.213	26.474	0.453
250	12.622	35.106	26.551	0.532
300	11.727	34.996	26.638	0.607
350	11.047	34.910	26.697	0.679
400	10.187	34.801	26.765	0.749
450	9.602	34.730	26.809	0.817
500	8.946	34.661	26.861	0.882
550	8.175	34.568	26.908	0.945
600	7.615	34.506	26.943	1.006
650	7.350	34.496	26.973	1.066
700	7.057	34.473	26.996	1.125
750	6.750	34.448	27.018	1.183
800	6.431	34.436	27.052	1.240
850	5.948	34.420	27.101	1.350
900	5.432	34.409	27.156	1.455
1000	2.942	34.519	27.507	1.877
1500	2.251	34.618	27.645	2.179
2000	1.902	34.649	27.698	2.444
2500	1.534	34.695	27.763	2.686
3000	1.128	34.725	27.816	2.898
3500	0.788	34.717	27.831	3.087
4000	0.638	34.711	27.836	3.268
4500	0.605	34.710	27.837	3.452
5000	0.601	34.709	27.837	3.475

CAST CG2-90-MB -067 DATE 29 MAR 90 TIME 0237 GMT
LAT 32 30.6S LONG 178 31.4W

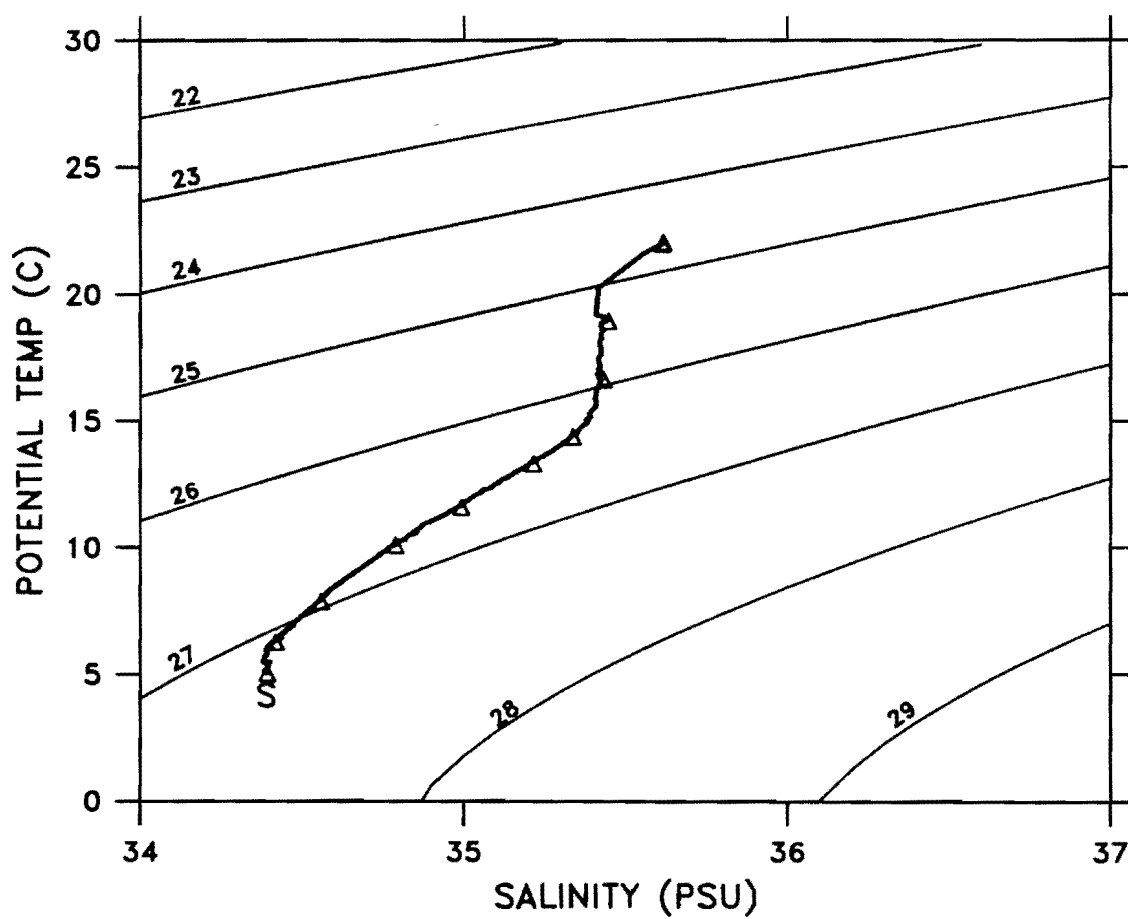


CST CG2-90-MB -067 DATE 29 MAR 90 TIME 0237 GMT
 LAT 32 30.6S LONG 178 31.4W WEATHER 1 SEA STATE 4
 BAROMETER 21 WIND DIR 094 T SPD 07 KT VISIBILITY 6
 CLOUD 6 AMOUNT 6 DRY 21.5 WET 20.0 DEPTH M

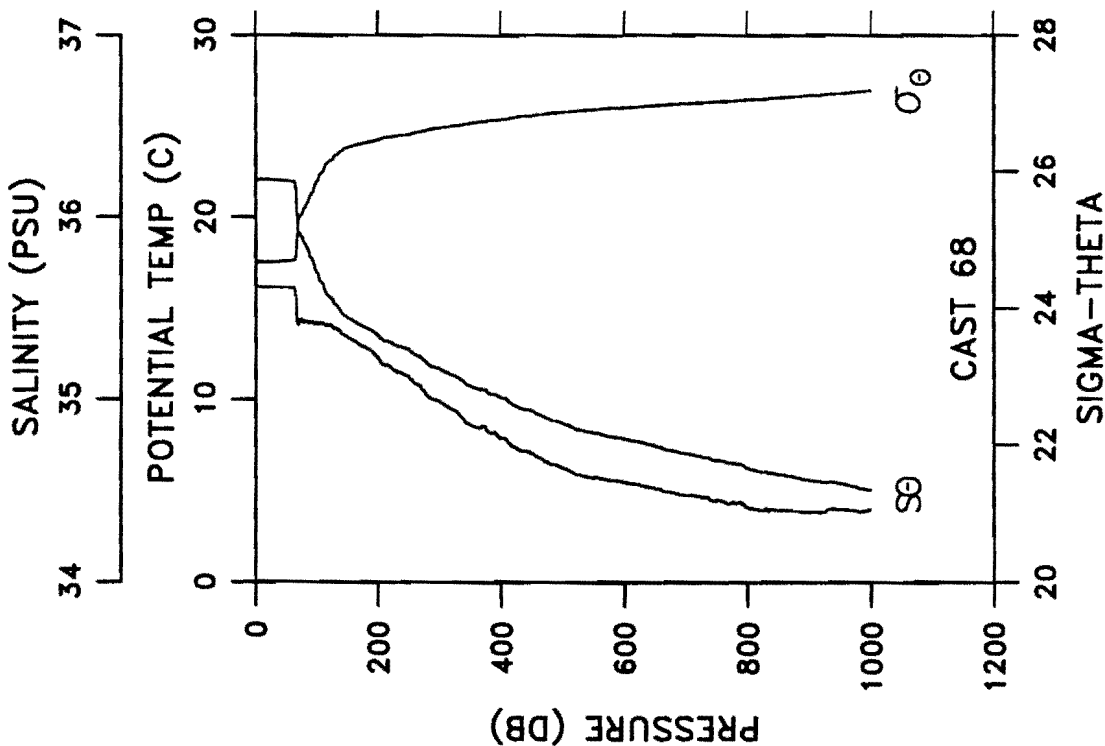


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.064	35.619	24.671	0.000
10	22.062	35.618	24.671	0.033
20	22.048	35.618	24.676	0.065
30	22.035	35.619	24.680	0.098
40	22.028	35.620	24.682	0.131
50	22.020	35.620	24.685	0.163
60	21.571	35.522	24.736	0.196
70	18.388	35.413	25.493	0.225
80	17.080	35.412	25.813	0.248
90	15.762	35.403	26.113	0.268
100	15.116	35.390	26.248	0.287
110	14.809	35.373	26.303	0.305
120	14.504	35.348	26.350	0.322
130	14.314	35.329	26.375	0.339
140	14.205	35.319	26.391	0.355
150	13.987	35.288	26.413	0.372
160	13.825	35.271	26.434	0.389
170	13.655	35.250	26.453	0.405
180	13.406	35.215	26.478	0.421
190	13.276	35.201	26.493	0.437
200	13.040	35.167	26.515	0.453
250	12.025	35.033	26.611	0.529
300	11.091	34.913	26.692	0.601
350	10.358	34.820	26.750	0.671
400	9.567	34.725	26.811	0.738
450	8.881	34.643	26.858	0.802
500	8.327	34.587	26.900	0.865
550	7.952	34.545	26.924	0.927
600	7.576	34.514	26.954	0.987
650	7.051	34.458	26.985	1.047
700	6.687	34.433	27.015	1.105
750	6.378	34.409	27.037	1.161
800	6.085	34.393	27.062	1.217
900	5.399	34.376	27.134	1.324
1000	4.812	34.380	27.206	1.425
1500	2.863	34.532	27.524	1.820
2000	2.220	34.622	27.651	2.113
2500	1.832	34.655	27.709	2.374
3000	1.539	34.702	27.768	2.612
3500	1.114	34.727	27.818	2.821
4000	0.804	34.718	27.831	3.009
4219	0.784	34.717	27.832	3.090

CAST CG2-90-MB -068 DATE 29 MAR 90 TIME 0704 GMT
LAT 32 29.8S LONG 178 44.6W

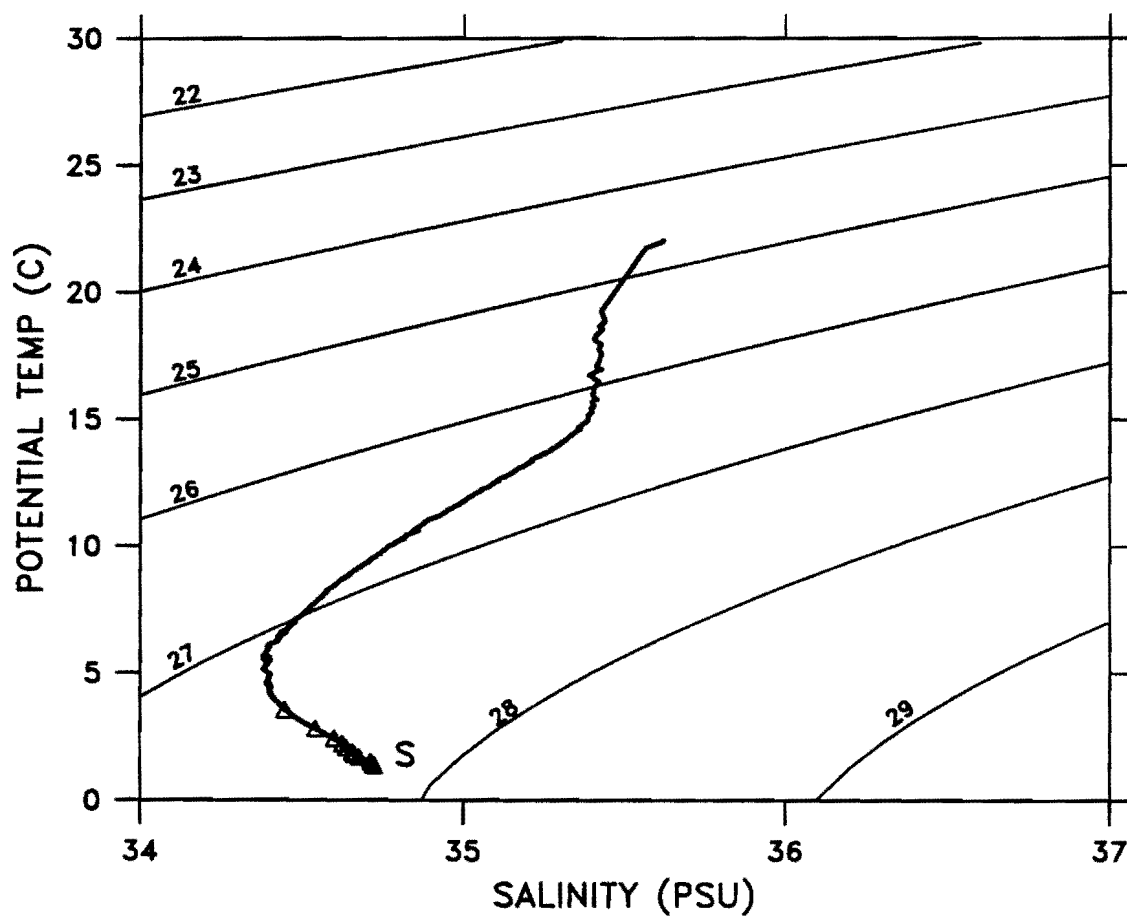


CAST CG2-90-MB -068 DATE 29 MAR 90 TIME 0704 GMT
 LAT 32 29.8S LONG 178 44.6W WEATHER 2 SEA STATE 3
 BAROMETER 22 WIND DIR 093 T SPD 10 KT VISIBILITY 7
 CLOUD 9 AMOUNT 7 DRY 20.0 WET 18.5 DEPTH 3080 M

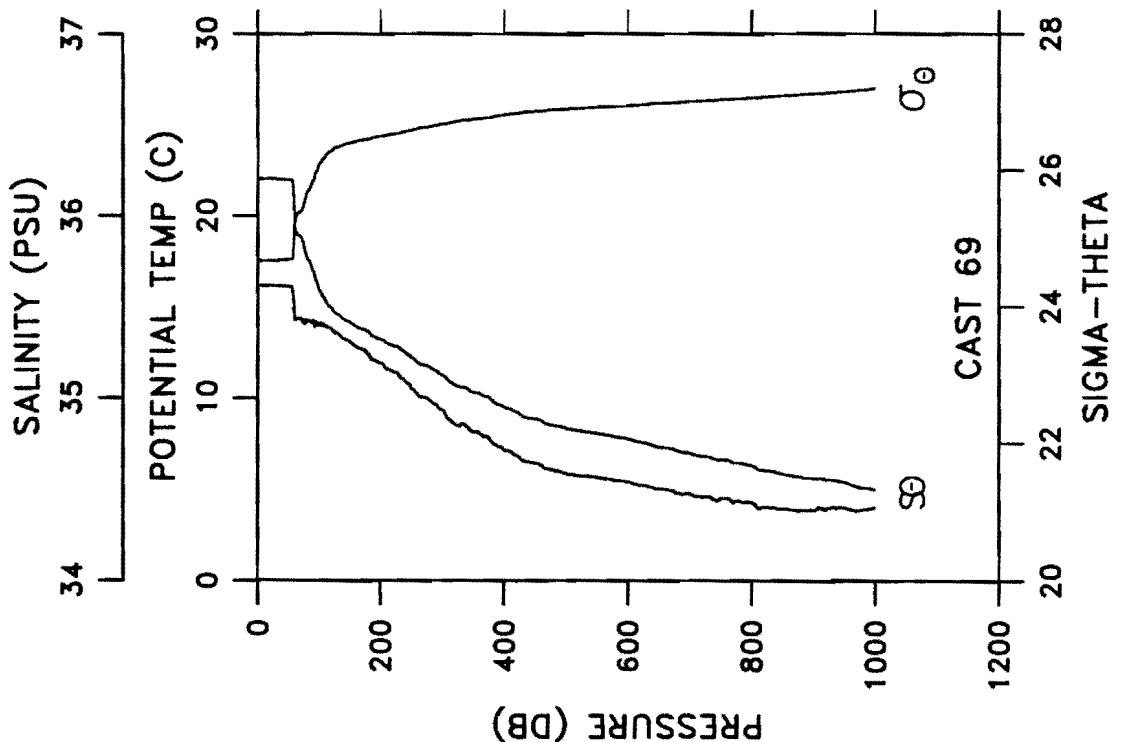


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.048	35.619	24.676	0.000
10	22.053	35.617	24.673	0.033
20	22.052	35.616	24.673	0.065
30	22.038	35.615	24.676	0.098
40	22.015	35.614	24.682	0.131
50	21.981	35.614	24.691	0.163
60	21.953	35.611	24.697	0.196
70	19.188	35.407	25.285	0.227
80	18.579	35.431	25.459	0.254
90	17.776	35.424	25.653	0.278
100	16.954	35.419	25.848	0.301
110	16.313	35.417	25.997	0.322
120	15.626	35.407	26.147	0.341
130	15.186	35.390	26.232	0.360
140	14.783	35.363	26.300	0.378
150	14.497	35.343	26.347	0.395
160	14.284	35.323	26.377	0.412
170	14.082	35.303	26.404	0.429
180	13.941	35.284	26.420	0.446
190	13.770	35.264	26.440	0.462
200	13.514	35.228	26.466	0.478
250	12.757	35.128	26.541	0.557
300	11.690	34.986	26.638	0.632
350	10.743	34.857	26.711	0.704
400	10.113	34.788	26.767	0.774
450	9.386	34.703	26.823	0.840
500	8.692	34.626	26.874	0.905
550	8.155	34.569	26.913	0.967
600	7.829	34.545	26.942	1.028
650	7.431	34.510	26.973	1.088
700	7.023	34.475	27.002	1.147
750	6.662	34.449	27.031	1.205
800	6.226	34.409	27.056	1.261
900	5.573	34.383	27.119	1.369
999	5.024	34.395	27.193	1.471

CAST CG2-90-MB -069 DATE 29 MAR 90 TIME 1000 GMT
LAT 32 29.3S LONG 178 46.0W

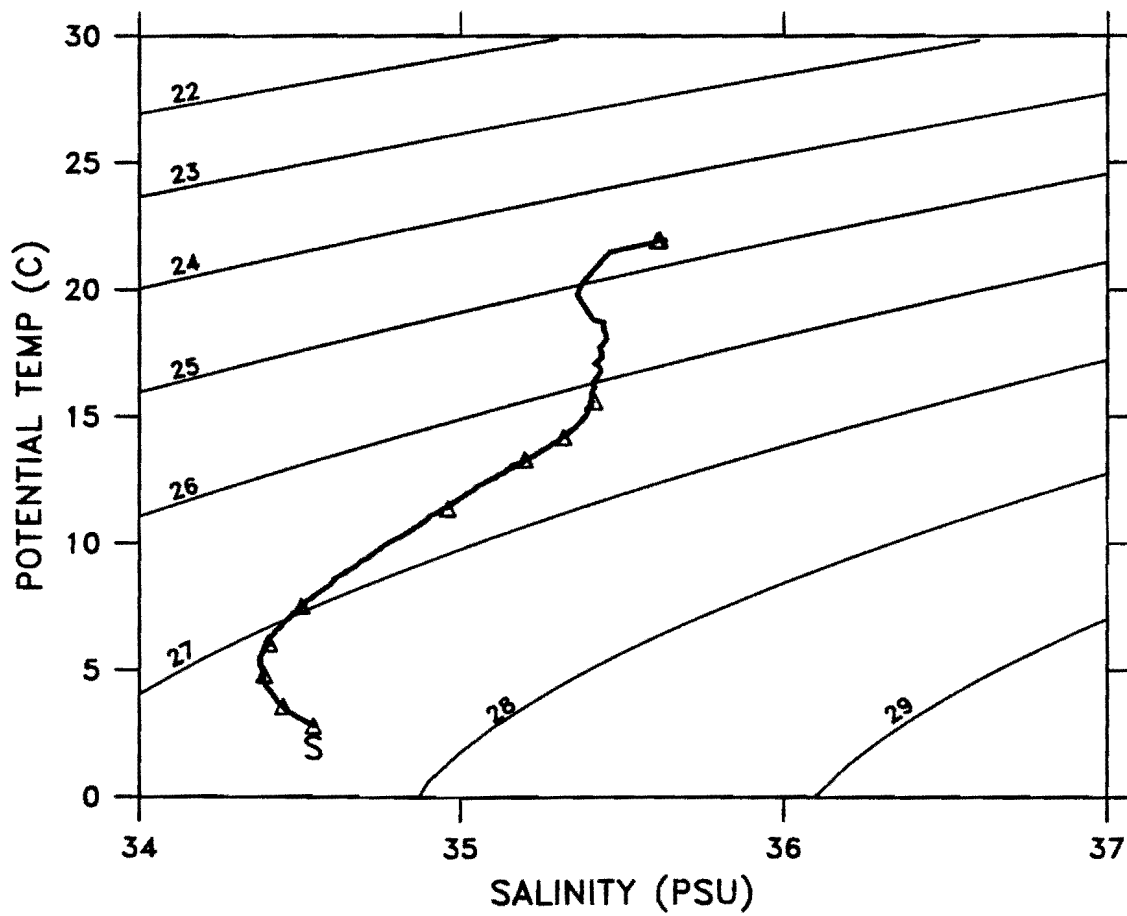


CST CG2-90-MB -069 DATE 29 MAR 90 TIME 1000 GMT
 LAT 32 29.35 LONG 178 46.0W WEATHER 2 SEA STATE 4
 BAROMETER 22 WIND DIR 100 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 20.7 WET 18.2 DEPTH 2828 M

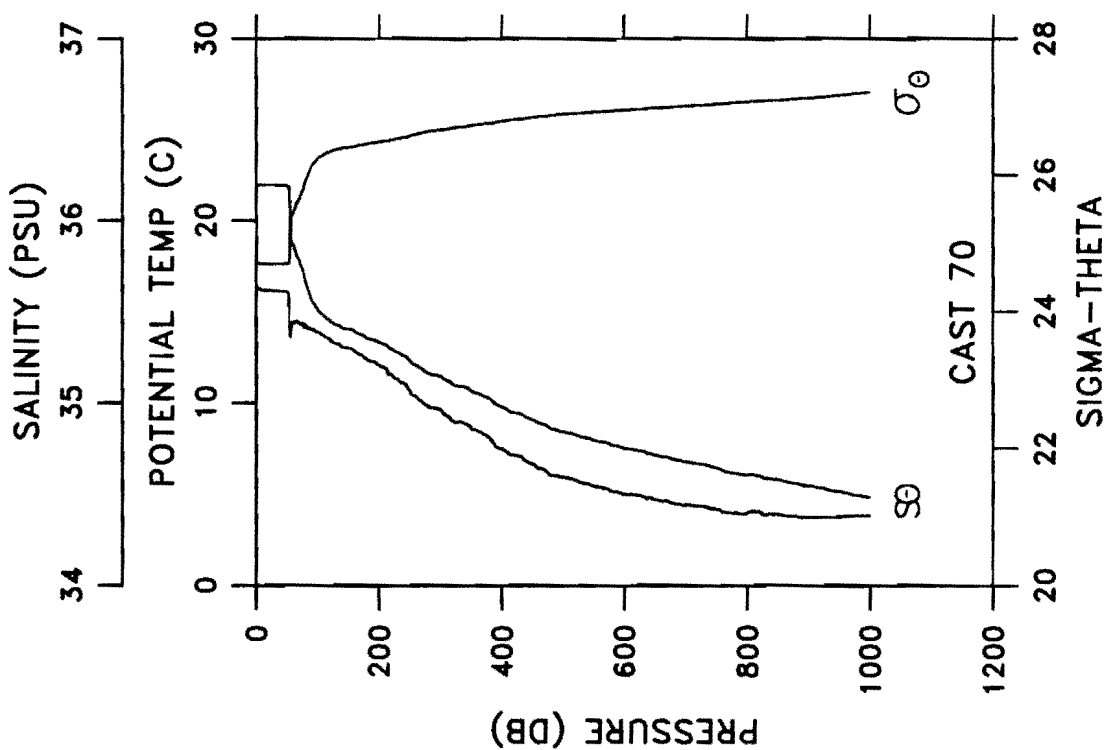


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.021	35.620	24.684	0.000
10	22.032	35.618	24.680	0.033
20	22.037	35.617	24.678	0.065
30	22.023	35.615	24.680	0.098
40	21.989	35.614	24.689	0.130
50	21.970	35.613	24.694	0.163
60	20.096	35.471	25.097	0.195
70	18.858	35.437	25.392	0.222
80	17.759	35.416	25.652	0.247
90	16.895	35.418	25.837	0.270
100	15.972	35.397	26.061	0.290
110	15.384	35.397	26.193	0.310
120	14.942	35.382	26.280	0.328
130	14.578	35.355	26.338	0.345
140	14.319	35.324	26.371	0.362
150	14.164	35.311	26.394	0.379
160	13.923	35.283	26.423	0.395
170	13.773	35.263	26.439	0.412
180	13.625	35.241	26.453	0.428
190	13.555	35.209	26.483	0.444
200	13.219	35.191	26.497	0.460
250	12.250	35.052	26.582	0.537
300	11.262	34.932	26.675	0.611
350	10.329	34.815	26.751	0.681
400	9.509	34.716	26.813	0.748
450	8.836	34.640	26.863	0.812
500	8.326	34.585	26.899	0.875
550	8.053	34.564	26.924	0.937
600	7.751	34.537	26.947	0.998
650	7.300	34.501	26.984	1.057
700	6.986	34.474	27.007	1.115
750	6.606	34.447	27.037	1.173
800	6.287	34.424	27.061	1.229
850	5.961	34.382	27.119	1.337
900	5.561	34.399	27.203	1.439
1000	4.966	34.543	27.539	1.836
1500	2.796	34.628	27.658	2.124
2000	2.193	34.662	27.717	2.382
2500	1.789	34.723	27.798	2.593
2973	1.364			

CAST CG2-90-MB -070 DATE 29 MAR 90 TIME 1257 GMT
LAT 32 29.0S LONG 178 30.1W

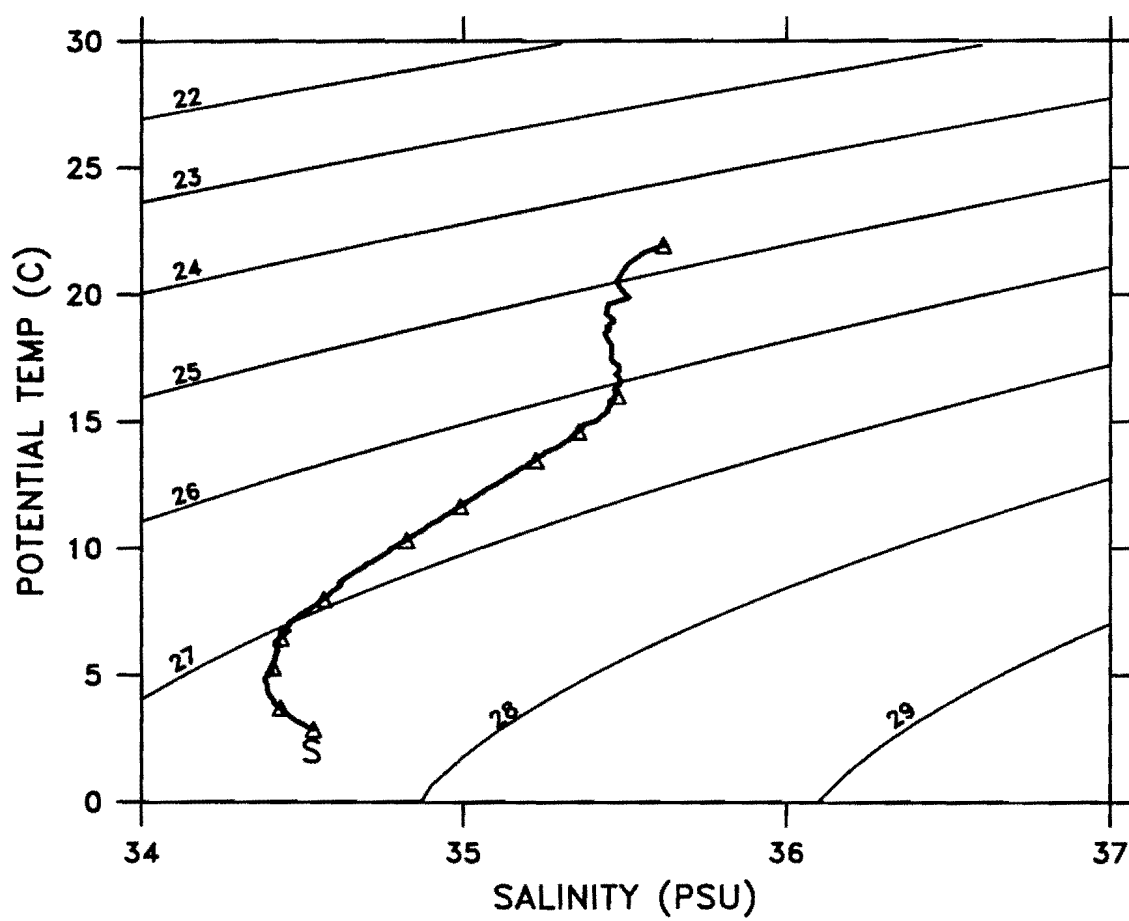


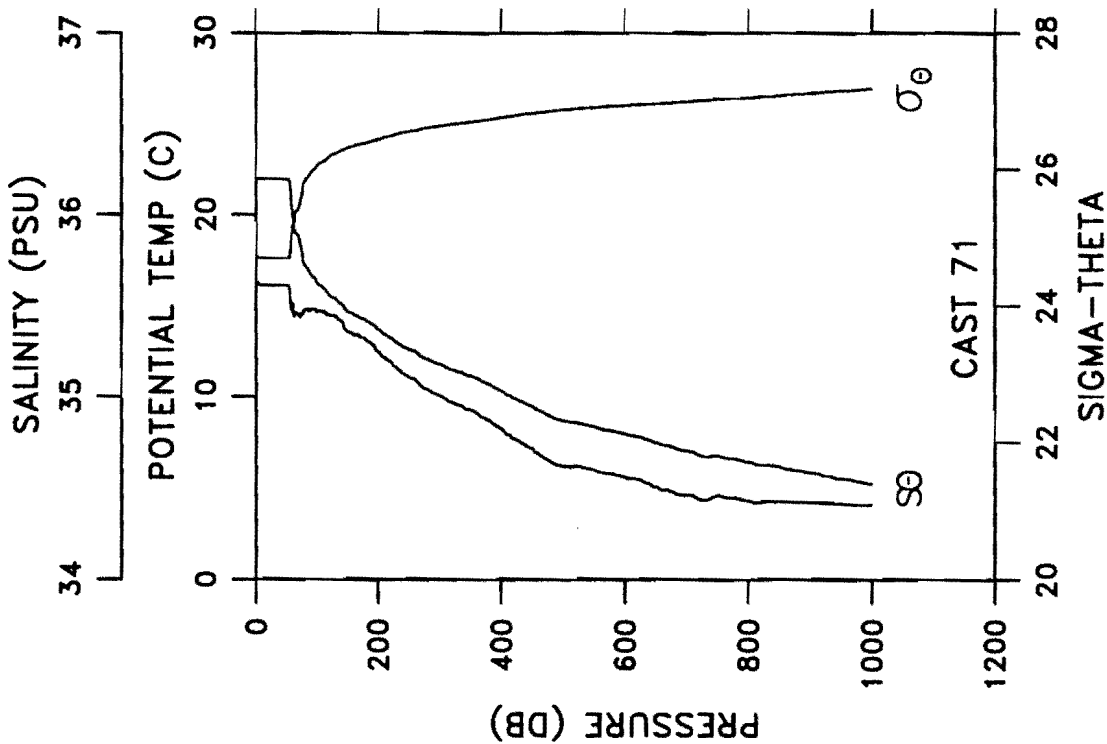
CAST CG2-90-MB -070 DATE 29 MAR 90 TIME 1257 GMT
 LAT 32 29.0S LONG 178 30.1W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 123 T SPD 08 KT VISIBILITY 8
 CLOUD AMOUNT 4 DRY 20.5 WET 18.0 DEPTH 4211 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.940	35.634	24.718	0.000
10	21.971	35.616	24.696	0.032
20	21.970	35.616	24.696	0.065
30	21.961	35.613	24.696	0.097
40	21.943	35.611	24.700	0.130
50	21.930	35.610	24.702	0.162
60	18.714	35.442	25.433	0.192
70	17.810	35.439	25.656	0.216
80	16.675	35.427	25.920	0.239
90	15.680	35.403	26.132	0.259
100	15.125	35.391	26.247	0.277
110	14.799	35.370	26.302	0.295
120	14.533	35.350	26.345	0.312
130	14.280	35.326	26.380	0.329
140	14.108	35.306	26.402	0.345
150	14.057	35.301	26.408	0.362
160	13.958	35.284	26.416	0.379
170	13.761	35.266	26.443	0.395
180	13.580	35.240	26.461	0.411
190	13.470	35.228	26.475	0.427
200	13.340	35.210	26.487	0.443
250	12.360	35.070	26.575	0.521
300	11.462	34.963	26.662	0.595
350	10.668	34.862	26.728	0.666
400	9.787	34.749	26.792	0.734
450	9.072	34.665	26.844	0.800
500	8.394	34.593	26.895	0.863
550	7.954	34.544	26.923	0.925
600	7.501	34.499	26.954	0.986
650	7.135	34.471	26.983	1.045
700	6.771	34.439	27.008	1.103
750	6.440	34.417	27.035	1.160
800	6.041	34.395	27.070	1.216
900	5.462	34.376	27.126	1.323
1000	4.806	34.383	27.208	1.423
1498	2.808	34.541	27.536	1.815

CAST CG2-90-MB -071 DATE 29 MAR 90 TIME 1554 GMT
LAT 32 29.6S LONG 178 17.8W

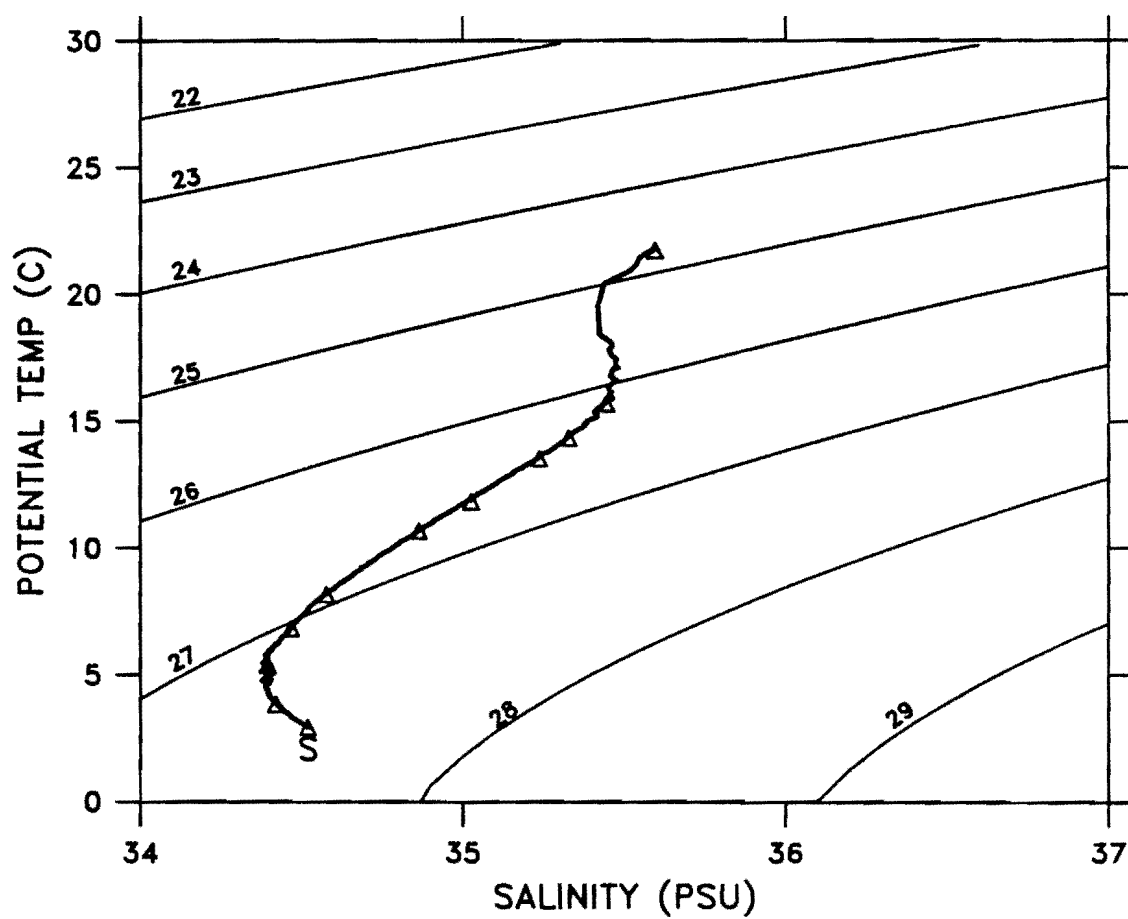


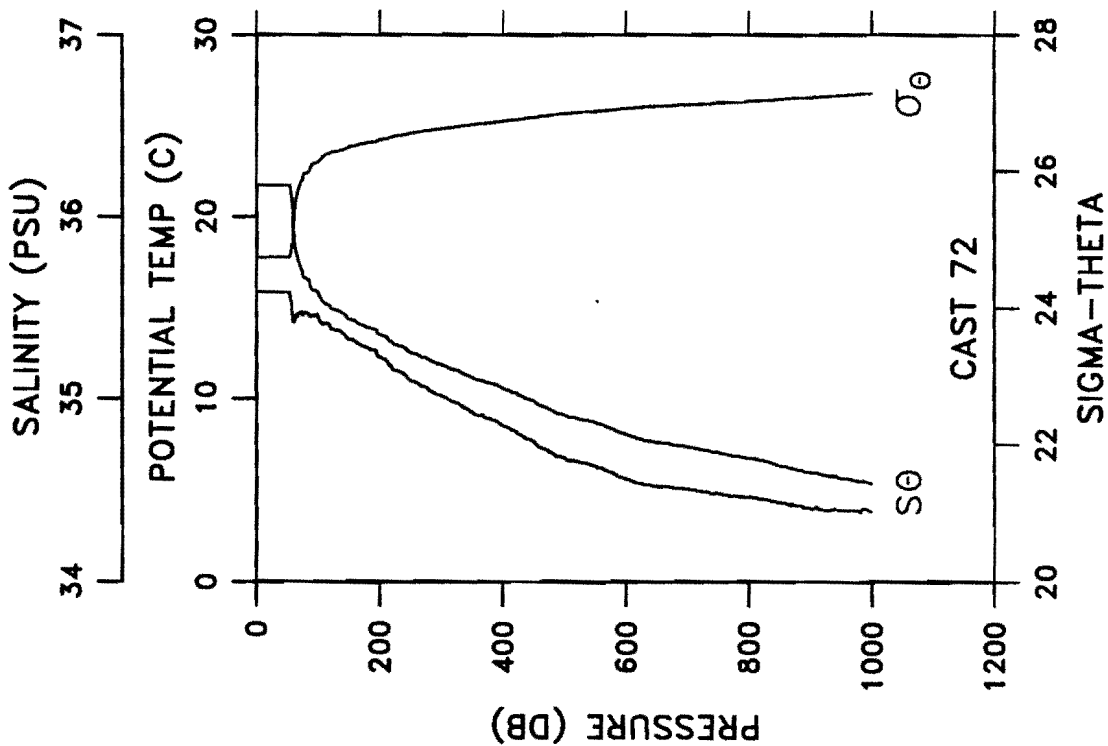


CAST CG2-90-MB -071 DATE 29 MAR 90 TIME 1554 GMT
 LAT 32 29.6S LONG 178 17.8W WEATHER 2 SEA STATE 3
 BAROMETER 20 WIND DIR 157 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 20.5 WET 18.0 DEPTH 5004 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.948	35.627	24.711	0.000
10	21.963	35.613	24.695	0.032
20	21.964	35.613	24.695	0.065
30	21.962	35.613	24.696	0.097
40	21.961	35.613	24.696	0.130
50	21.955	35.612	24.697	0.162
60	19.906	35.508	25.175	0.194
70	18.714	35.441	25.432	0.221
80	17.212	35.478	25.831	0.244
90	16.720	35.481	25.951	0.266
100	16.259	35.469	26.050	0.286
110	15.983	35.466	26.111	0.306
120	15.610	35.451	26.184	0.325
130	15.409	35.445	26.225	0.343
140	15.098	35.418	26.273	0.361
150	14.709	35.360	26.314	0.379
160	14.529	35.341	26.338	0.396
170	14.361	35.330	26.366	0.413
180	14.200	35.310	26.385	0.430
190	13.984	35.287	26.413	0.447
200	13.707	35.249	26.442	0.463
250	12.594	35.106	26.557	0.543
300	11.792	35.006	26.634	0.618
350	11.141	34.926	26.693	0.690
400	10.337	34.824	26.757	0.760
450	9.470	34.718	26.821	0.828
500	8.680	34.620	26.872	0.892
550	8.355	34.599	26.905	0.955
600	7.865	34.560	26.934	1.017
650	7.472	34.506	26.964	1.077
700	7.029	34.460	26.989	1.136
750	6.739	34.460	27.029	1.194
800	6.409	34.429	27.049	1.251
900	5.837	34.420	27.115	1.360
1000	5.230	34.408	27.179	1.464
1500	2.858	34.532	27.524	1.868
		34.532	27.524	1.868

CAST CG2-90-MB -072 DATE 29 MAR 90 TIME 2008 GMT
LAT 32 29.5S LONG 178 00.2W

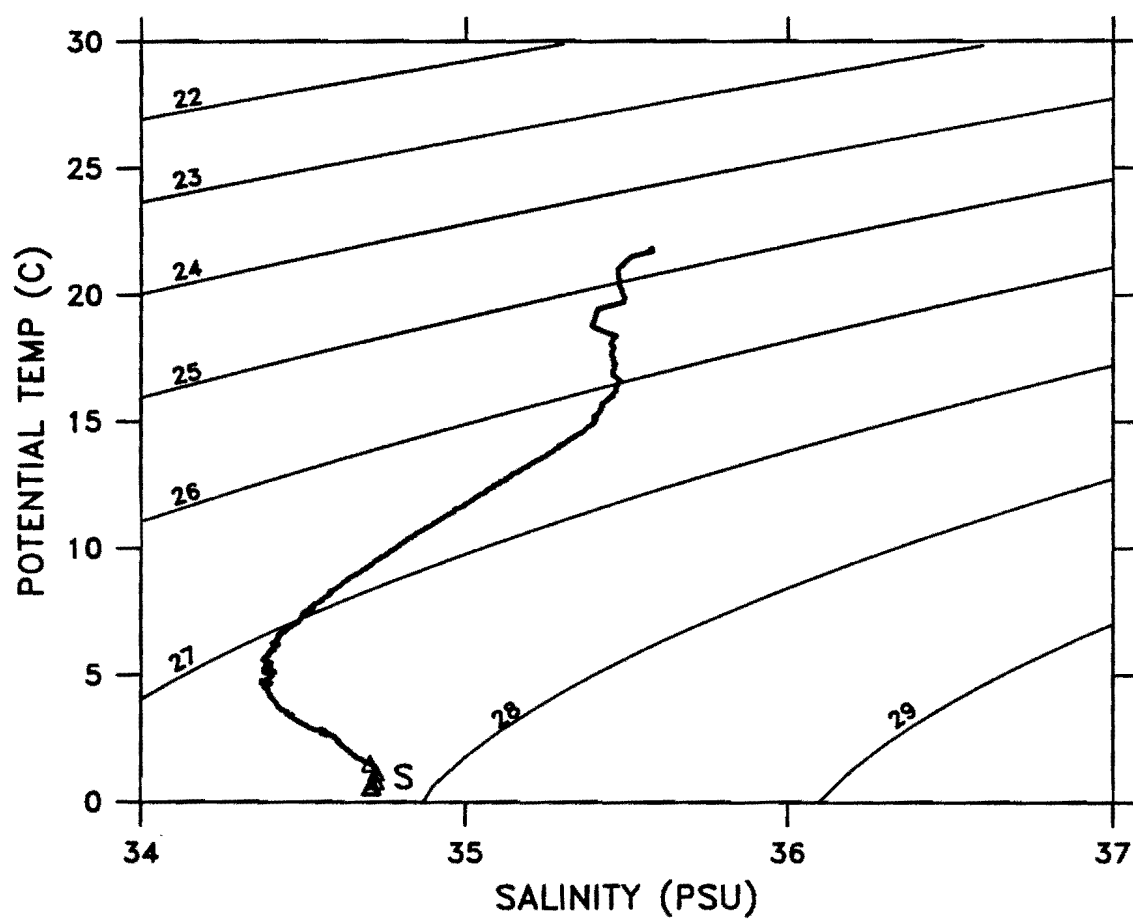


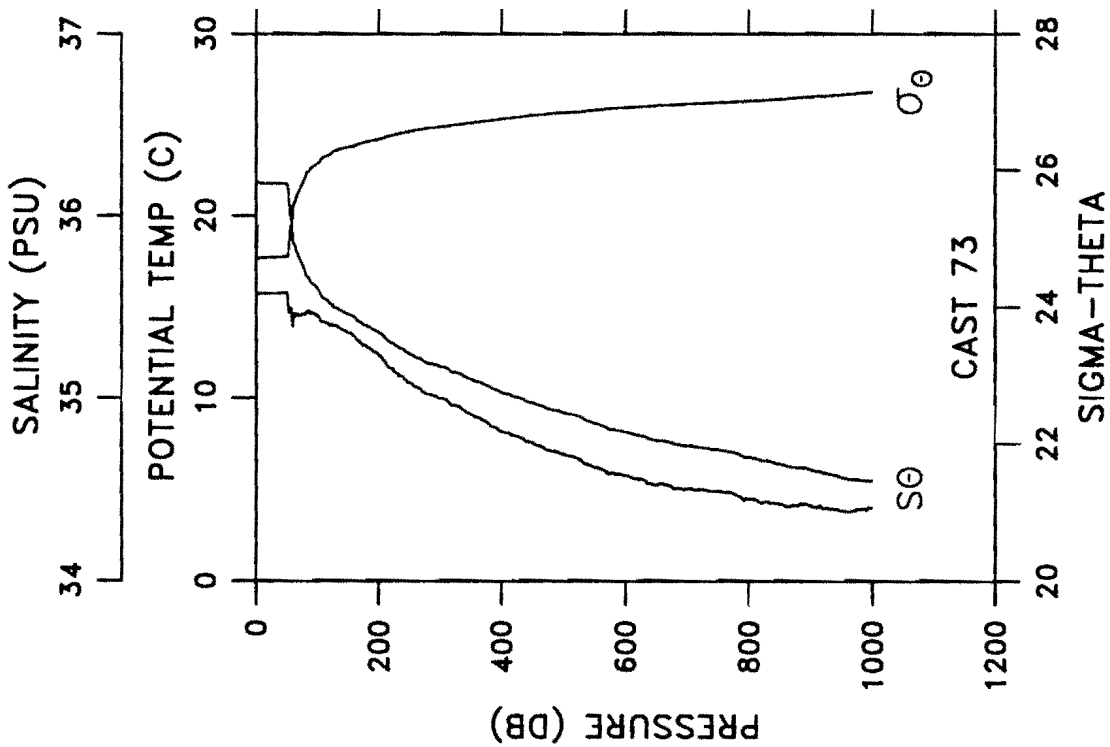


CST CG2-80-MB -072 DATE 29 MAR 90 TIME 2008 GMT
 LAT 32 29.5S LONG 178 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 21 WIND DIR 114 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 21.0 WET 18.1 DEPTH 5722 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.731	35.587	24.741	0.000
10	21.731	35.588	24.741	0.032
20	21.729	35.587	24.741	0.064
30	21.727	35.587	24.742	0.096
40	21.725	35.587	24.743	0.128
50	21.728	35.587	24.742	0.160
60	19.505	35.418	25.212	0.191
70	17.357	35.473	25.793	0.215
80	16.622	35.473	25.968	0.236
90	15.992	35.453	26.099	0.257
100	15.801	35.445	26.136	0.276
110	15.268	35.414	26.233	0.294
120	15.022	35.386	26.285	0.312
130	14.862	35.377	26.294	0.330
140	14.690	35.358	26.317	0.347
150	14.377	35.324	26.358	0.365
160	14.276	35.314	26.372	0.382
170	14.054	35.292	26.402	0.398
180	13.920	35.279	26.420	0.415
190	13.822	35.269	26.433	0.431
200	13.521	35.230	26.466	0.448
250	12.556	35.102	26.561	0.527
300	11.893	35.018	26.624	0.602
350	11.187	34.928	26.686	0.675
400	10.581	34.850	26.734	0.746
450	9.886	34.767	26.790	0.814
500	8.109	34.678	26.849	0.880
550	8.704	34.632	26.878	0.945
600	8.050	34.559	26.920	1.007
650	7.632	34.523	26.954	1.068
700	7.389	34.507	26.976	1.129
750	7.088	34.482	26.999	1.188
800	6.768	34.462	27.027	1.246
900	5.983	34.397	27.079	1.358
1000	5.347	34.384	27.147	1.465
1499	2.938	34.520	27.508	1.885

CAST CG2-90-MB -073 DATE 30 MAR 90 TIME 0029 GMT
LAT 32 30.6S LONG 177 59.9W

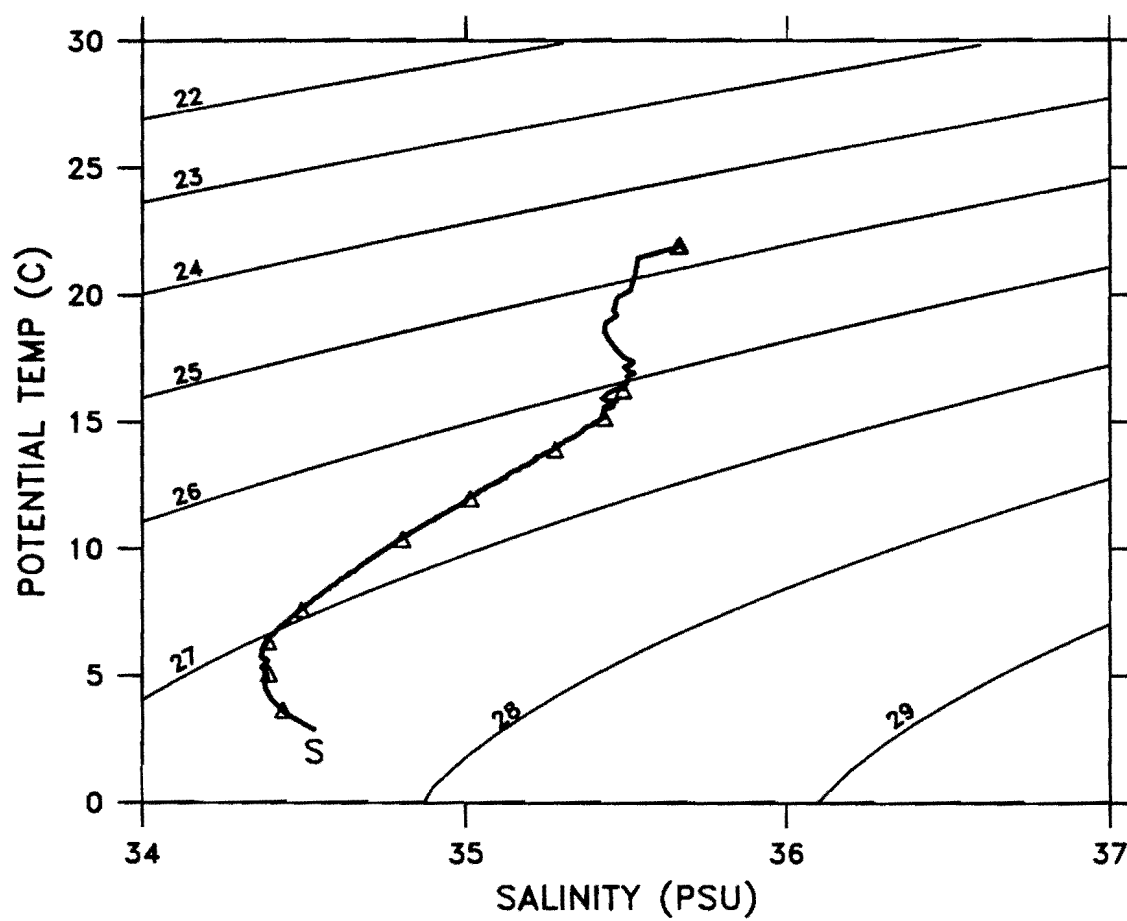




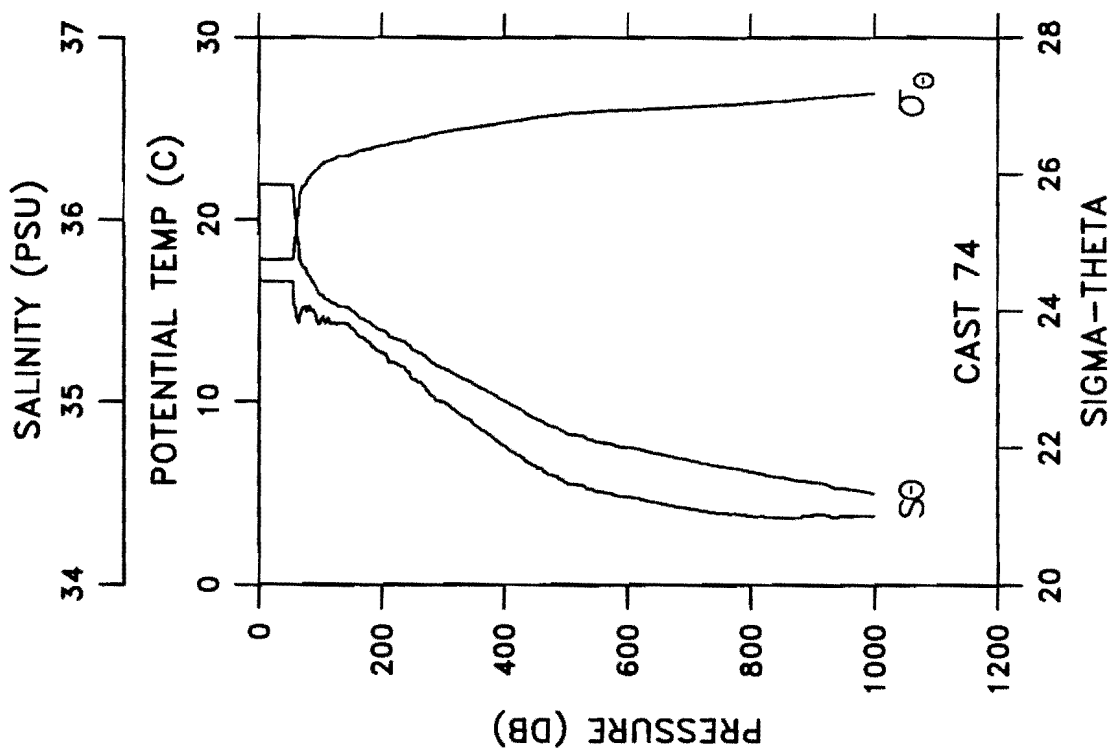
CAST CG2-90-MB -073 DATE 30 MAR 90 TIME 0029 GMT
 LAT 32 30.6S LONG 177 59.9W WEATHER 1 SEA STATE 2
 BAROMETER 08 WIND DIR 155 T SPD 06 KT VISIBILITY 7
 CLOUD 9 AMOUNT 6 DRY 23.0 WET 19.0 DEPTH 5898 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.855	35.577	24.698	0.000
10	21.771	35.572	24.718	0.032
20	21.764	35.573	24.721	0.064
30	21.756	35.574	24.724	0.097
40	21.751	35.576	24.727	0.129
50	21.730	35.575	24.732	0.161
60	18.754	35.391	25.384	0.191
70	17.721	35.452	25.688	0.215
80	16.846	35.456	25.902	0.237
90	16.322	35.466	26.033	0.258
100	16.009	35.455	26.097	0.277
110	15.478	35.419	26.190	0.296
120	15.236	35.398	26.227	0.315
130	14.955	35.398	26.290	0.333
140	14.769	35.377	26.314	0.350
150	14.598	35.359	26.338	0.368
160	14.451	35.341	26.355	0.385
170	14.172	35.307	26.389	0.402
180	13.990	35.290	26.414	0.418
190	13.796	35.264	26.435	0.435
200	13.615	35.239	26.453	0.451
250	12.445	35.087	26.571	0.530
300	11.731	34.998	26.639	0.604
350	11.053	34.911	26.697	0.677
400	10.315	34.817	26.755	0.747
450	9.769	34.757	26.801	0.815
500	9.203	34.694	26.846	0.881
550	8.614	34.621	26.883	0.945
600	8.138	34.577	26.921	1.008
650	7.657	34.521	26.949	1.069
700	7.384	34.501	26.972	1.129
750	7.180	34.493	26.994	1.189
800	6.758	34.450	27.019	1.247
900	6.080	34.411	27.077	1.361
1000	5.462	34.400	27.145	1.468
1500	2.911	34.525	27.514	1.890
2000	2.267	34.617	27.643	2.190
2500	1.936	34.649	27.695	2.458
3000	1.547	34.700	27.766	2.701
3500	1.185	34.725	27.812	2.914
4000	0.835	34.719	27.830	3.108
4500	0.659	34.712	27.836	3.291
5000	0.603	34.710	27.838	3.476
5975	0.568	34.707	27.837	3.858

CAST CG2-90-MB -074 DATE 30 MAR 90 TIME 1229 GMT
LAT 32 29.0S LONG 175 29.0W

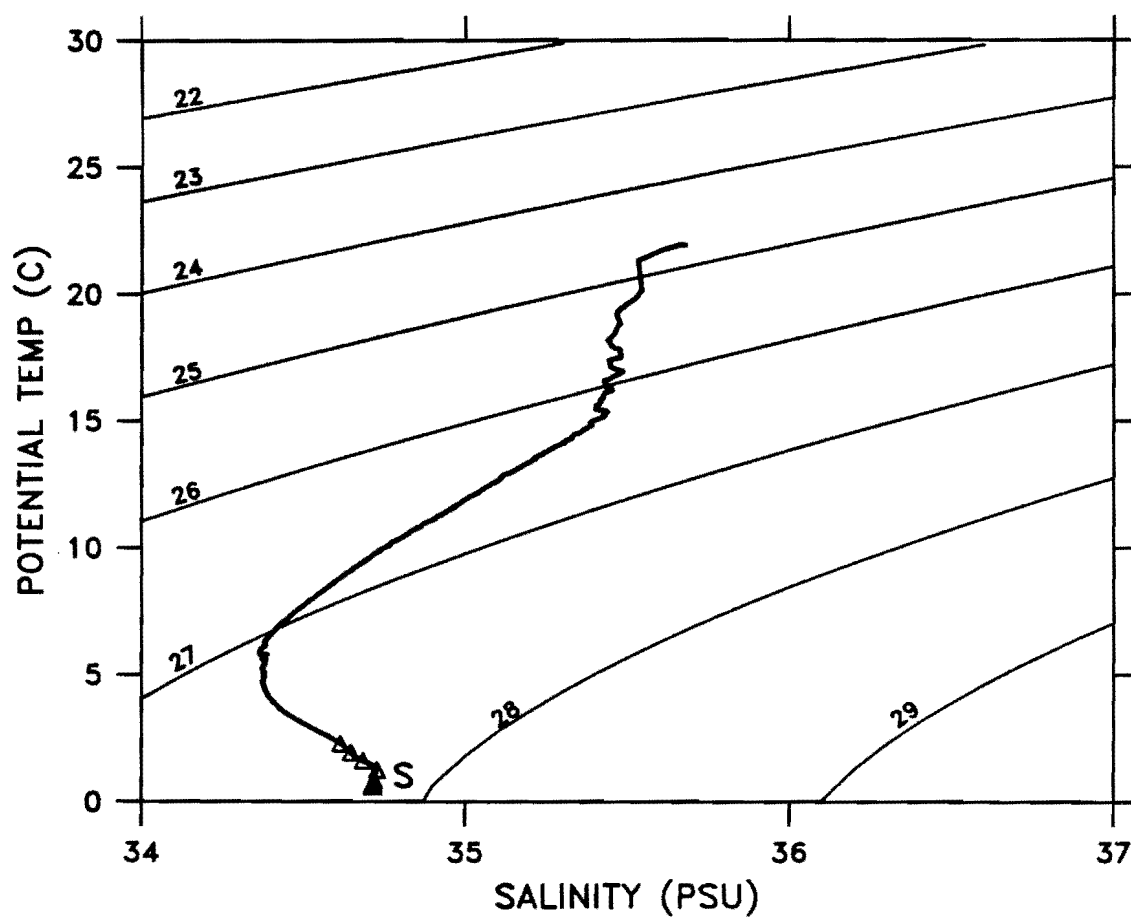


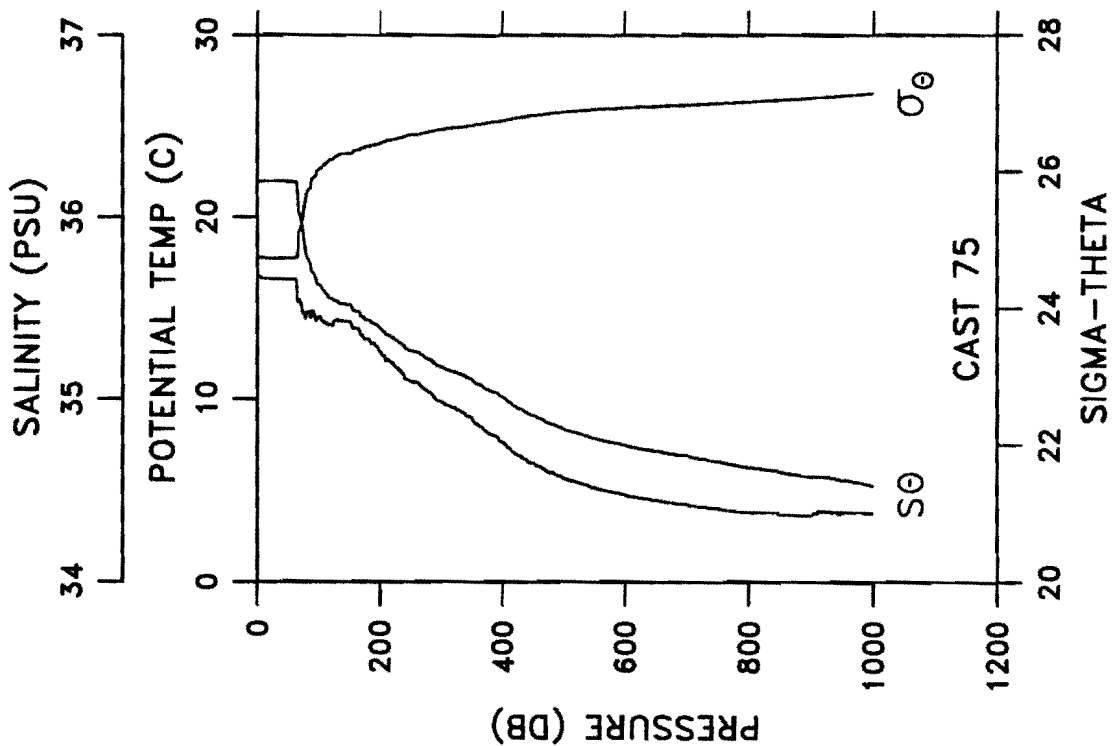
CAST CG2-90-MB -074 DATE 30 MAR 90 TIME 1229 GMT
 LAT 32 29.0S LONG 175 29.0W WEATHER 2 SEA STATE 2
 BAROMETER 08 WIND DIR 125 T SPD 04 KT VISIBILITY 8
 CLOUD 7 AMOUNT 7 DRY 21.0 WET 19.0 DEPTH 5574 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.914	35.668	24.751	0.000
10	21.926	35.662	24.743	0.032
20	21.922	35.662	24.744	0.064
30	21.913	35.661	24.746	0.096
40	21.903	35.661	24.749	0.128
50	21.886	35.659	24.752	0.160
60	19.917	35.471	25.144	0.191
70	17.437	35.509	25.801	0.216
80	16.932	35.520	25.930	0.237
90	16.417	35.488	26.028	0.258
100	15.843	35.437	26.121	0.277
110	15.588	35.443	26.183	0.296
120	15.407	35.430	26.214	0.315
130	15.215	35.430	26.257	0.333
140	15.195	35.430	26.261	0.351
150	14.998	35.403	26.284	0.369
160	14.684	35.366	26.324	0.386
170	14.526	35.351	26.347	0.404
180	14.360	35.327	26.364	0.421
190	14.067	35.286	26.395	0.438
200	13.920	35.271	26.415	0.454
250	12.857	35.125	26.519	0.536
300	11.861	35.000	26.616	0.612
350	10.986	34.878	26.684	0.686
400	10.055	34.760	26.756	0.756
450	9.102	34.650	26.828	0.823
500	8.291	34.558	26.883	0.887
550	7.807	34.509	26.917	0.949
600	7.510	34.481	26.938	1.010
650	7.183	34.448	26.959	1.070
700	6.833	34.418	26.983	1.130
750	6.466	34.392	27.012	1.188
800	6.184	34.377	27.037	1.245
900	5.603	34.378	27.111	1.354
1000	4.997	34.379	27.184	1.457
1498	2.871	34.530	27.522	1.862

CAST CG2-90-MB -075 DATE 30 MAR 90 TIME 1642 GMT
LAT 32 29.4S LONG 175 30.1W

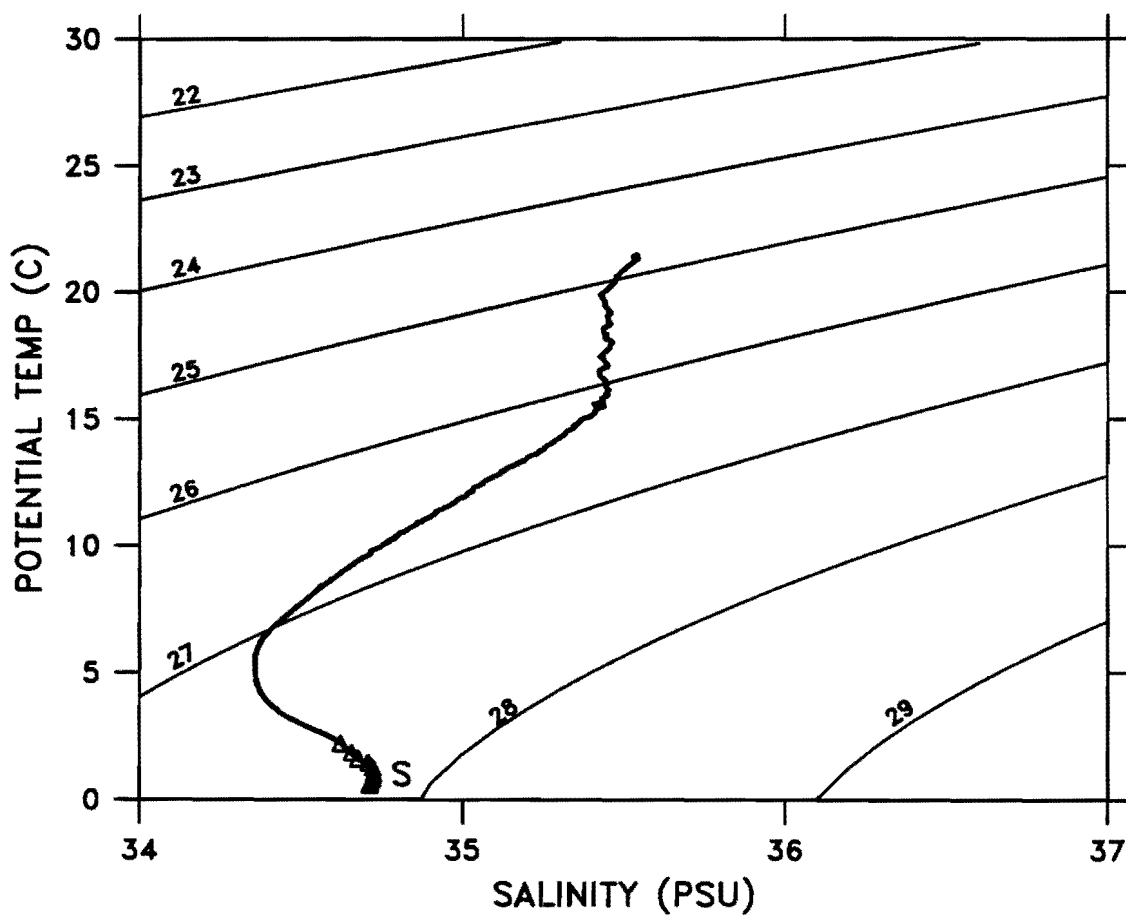


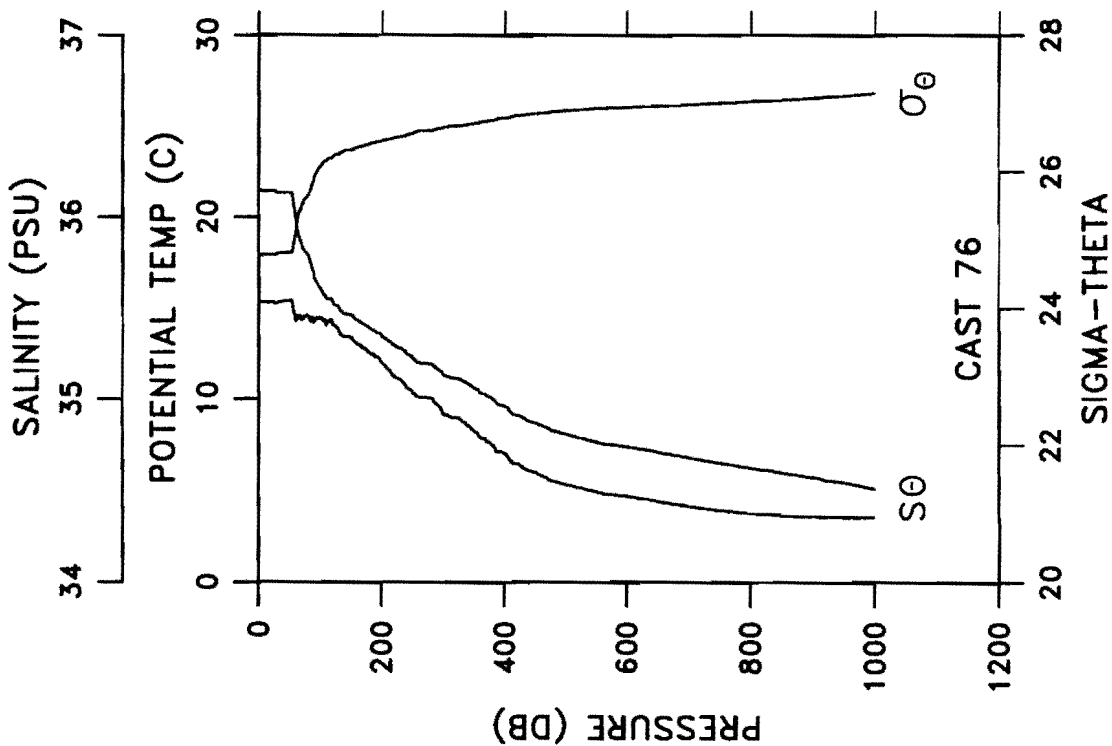


CAST 062-90-MB -075 DATE 30 MAR 90 TIME 1642 GMT
 LAT 32 29.4S LONG 175 30.1W WEATHER 1 SEA STATE 0
 BAROMETER 17 WIND DIR T SPD 00 KT VISIBILITY 7
 CLOUD 6 AMOUNT 3 DRY 19.5 WET 17.5 DEPTH 5462 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.929	35.679	24.755	0.000
10	21.967	35.664	24.733	0.032
20	21.970	35.663	24.731	0.064
30	21.970	35.661	24.730	0.096
40	21.964	35.660	24.731	0.128
50	21.948	35.659	24.734	0.161
60	21.945	35.659	24.736	0.193
70	20.067	35.537	25.155	0.224
80	17.885	35.456	25.651	0.250
90	16.968	35.486	25.896	0.273
100	16.313	35.451	26.024	0.294
110	15.888	35.419	26.097	0.313
120	15.508	35.408	26.175	0.332
130	15.377	35.434	26.224	0.351
140	15.200	35.429	26.259	0.369
150	15.172	35.427	26.264	0.387
160	14.836	35.390	26.310	0.405
170	14.541	35.352	26.344	0.422
180	14.331	35.329	26.371	0.439
190	14.159	35.308	26.392	0.456
200	13.885	35.261	26.414	0.473
250	12.663	35.099	26.538	0.553
300	11.789	34.985	26.618	0.630
350	11.079	34.891	26.676	0.703
400	10.109	34.764	26.749	0.773
450	9.110	34.649	26.826	0.840
500	8.363	34.567	26.879	0.905
550	7.859	34.516	26.915	0.967
600	7.490	34.477	26.938	1.028
650	7.163	34.447	26.961	1.088
700	6.913	34.424	26.977	1.147
750	6.577	34.401	27.004	1.206
800	6.272	34.383	27.030	1.263
850	5.752	34.368	27.085	1.375
900	5.252	34.375	27.150	1.481
1000	2.945	34.519	27.506	1.903
2000	2.264	34.615	27.642	2.203
2500	1.907	34.648	27.697	2.471
3000	1.588	34.685	27.751	2.718
3500	1.202	34.723	27.809	2.937
4000	0.821	34.717	27.829	3.130
4500	0.689	34.712	27.834	3.315
5000	0.611	34.708	27.835	3.502
5526	0.583	34.707	27.837	3.705

CAST CG2-90-MB -076 DATE 31 MAR 90 TIME 1104 GMT
LAT 32 28.8S LONG 171 28.7W

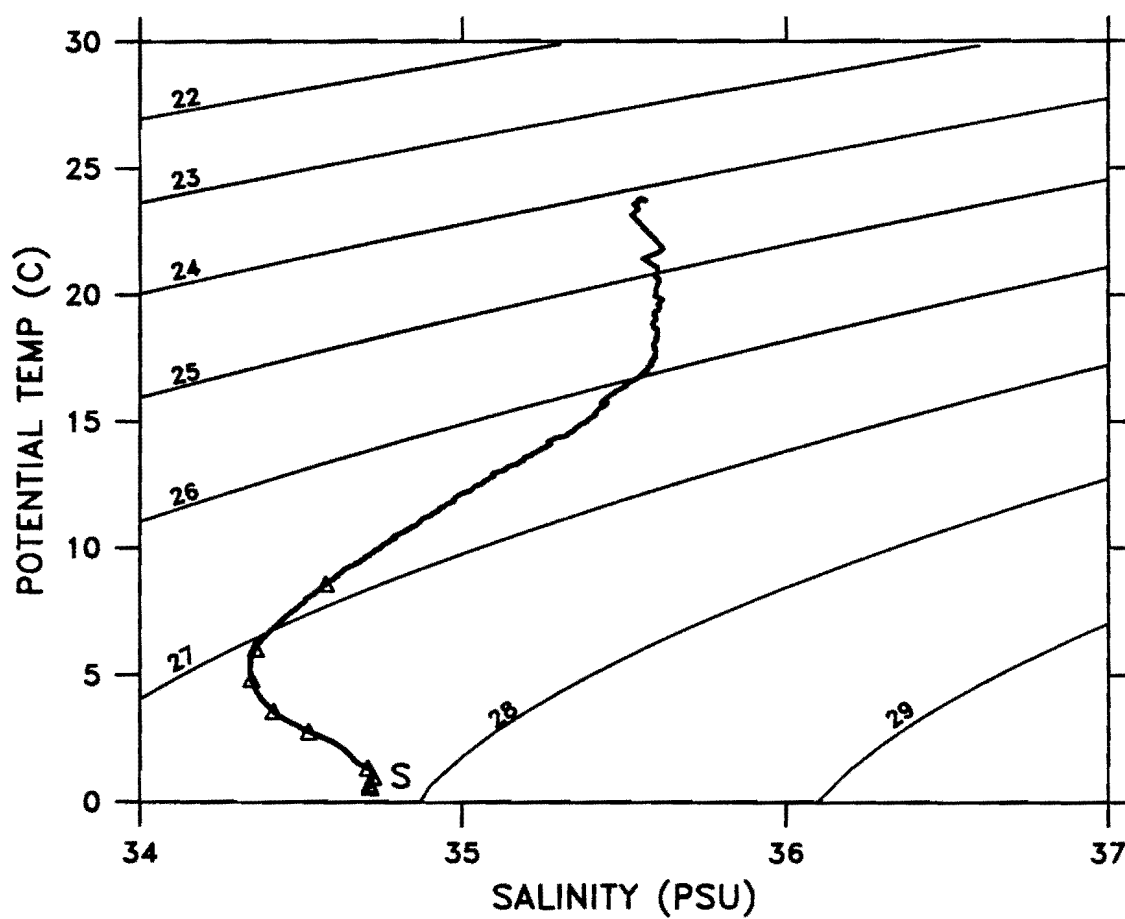




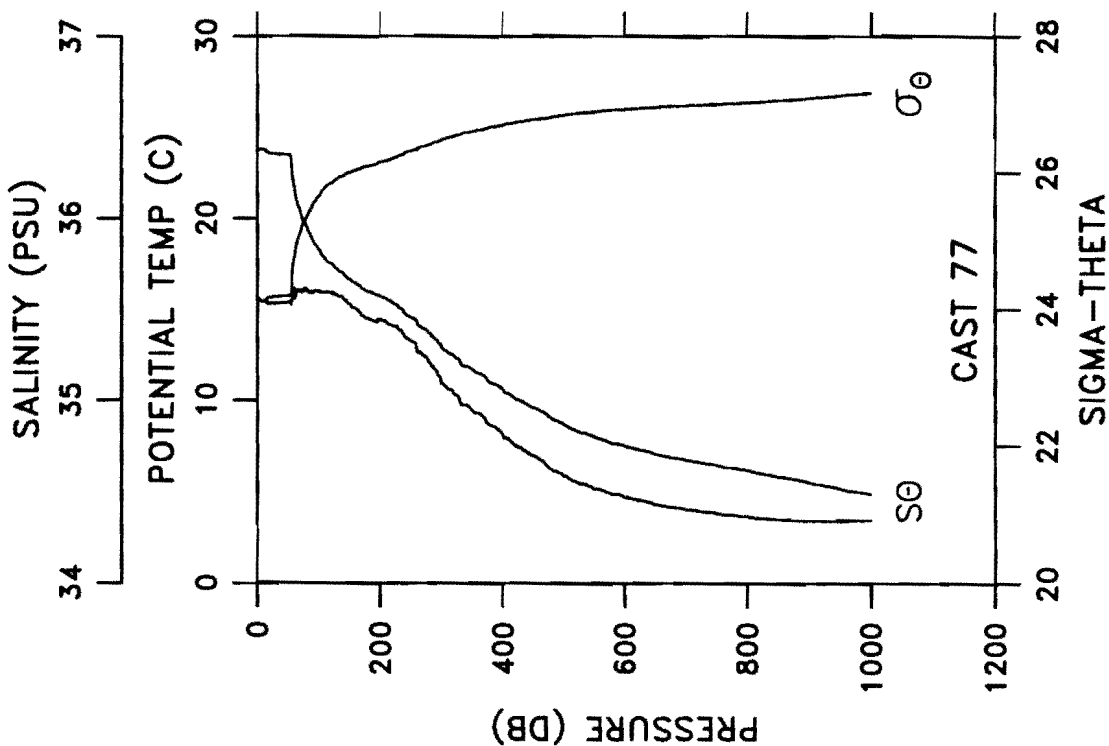
CAST CG2-90-MB -076 DATE 31 MAR 90 TIME 1104 GMT
 LAT 32 28.8S LONG 171 28.7W WEATHER 1 SEA STATE 2
 BAROMETER 17 WIND DIR 218 T SPD 03 KT VISIBILITY 8
 CLOUD 4 AMOUNT 2 DRY 20.8 WET 18.3 DEPTH 5182 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.460	35.541	24.781	0.000
10	21.436	35.536	24.784	0.032
20	21.438	35.535	24.782	0.063
30	21.350	35.531	24.804	0.095
40	21.346	35.538	24.810	0.126
50	21.342	35.541	24.814	0.158
60	19.877	35.426	25.120	0.188
70	18.379	35.436	25.513	0.215
80	17.886	35.455	25.650	0.239
90	16.689	35.424	25.915	0.261
100	16.064	35.450	26.080	0.282
110	15.521	35.412	26.174	0.301
120	15.320	35.408	26.216	0.319
130	15.047	35.374	26.250	0.337
140	14.678	35.344	26.309	0.355
150	14.623	35.340	26.317	0.372
160	14.318	35.303	26.355	0.390
170	14.122	35.283	26.381	0.407
180	13.905	35.255	26.405	0.424
190	13.679	35.233	26.435	0.440
200	13.461	35.198	26.453	0.456
250	12.314	35.033	26.554	0.535
300	11.349	34.914	26.645	0.610
350	10.645	34.829	26.707	0.682
400	9.621	34.704	26.785	0.751
450	8.709	34.602	26.853	0.816
500	8.095	34.534	26.894	0.879
550	7.682	34.496	26.925	0.940
600	7.424	34.471	26.942	1.001
650	7.125	34.440	26.960	1.061
700	6.814	34.414	26.983	1.120
750	6.520	34.393	27.006	1.179
800	6.251	34.377	27.028	1.236
900	5.751	34.360	27.079	1.348
1000	5.102	34.355	27.152	1.454
1500	2.800	34.527	27.526	1.870
2000	2.190	34.622	27.654	2.163
2500	1.810	34.656	27.711	2.422
3000	1.607	34.674	27.741	2.667
3500	1.297	34.716	27.797	2.893
4000	0.916	34.720	27.826	3.095
4500	0.676	34.713	27.836	3.282
5000	0.592	34.710	27.839	3.466
5229	0.576	34.710	27.839	3.552

CAST CG2-90-MB -077 DATE 01 APR 90 TIME 0233 GMT
LAT 30 00.0S LONG 170 00.4W

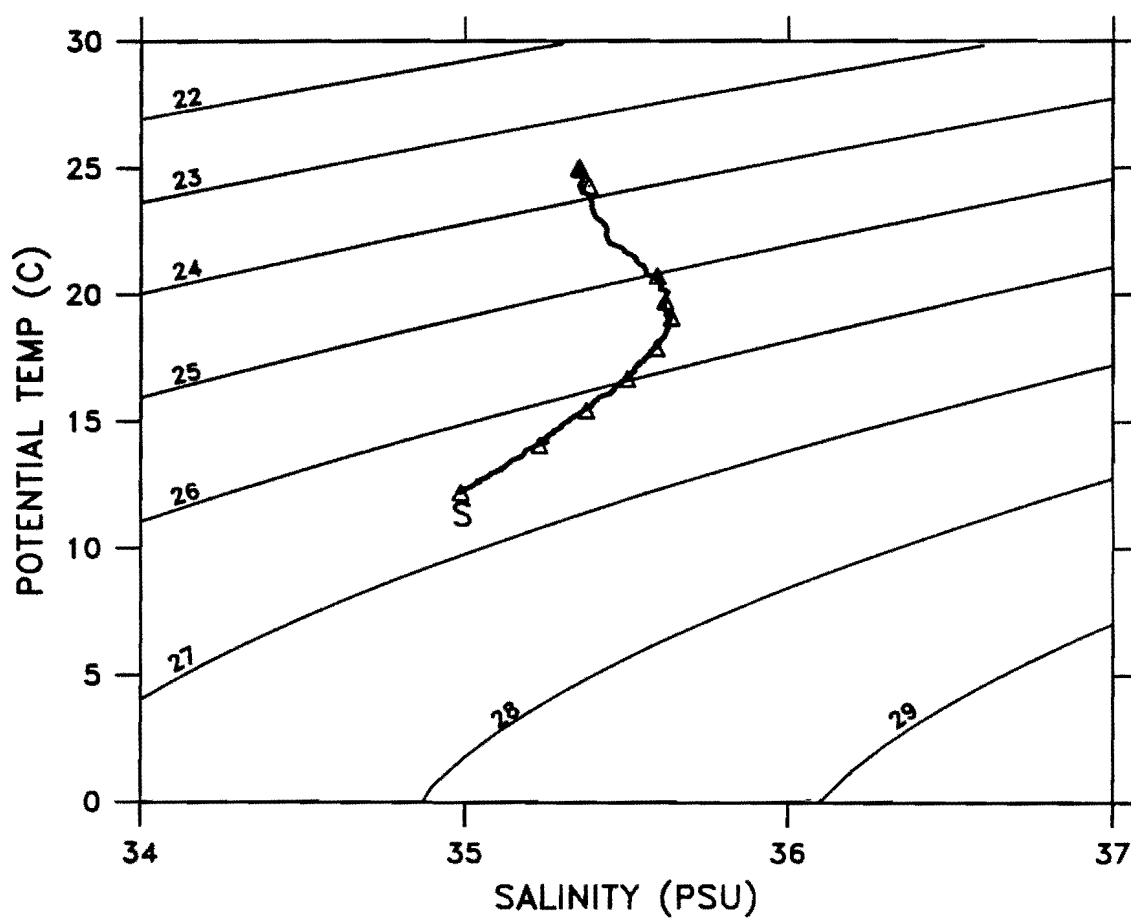


CAST 002-90-MB -077 DATE 01 APR 90 TIME 0233 GMT
 LAT 30 00.0S LONG 170 00.4W WEATHER 1 SEA STATE 2
 BAROMETER 08 WIND DIR 134 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 24.0 WET 21.0 DEPTH 5414 M

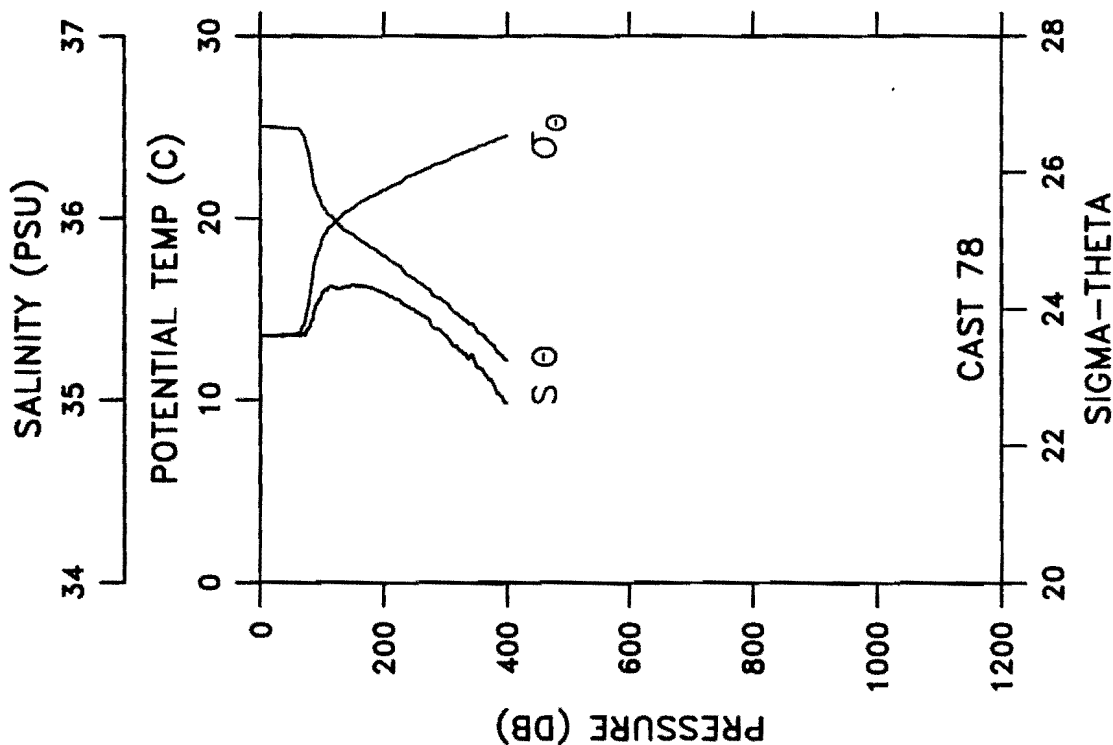


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.730	35.565	24.151	0.000
10	23.798	35.545	24.116	0.038
20	23.564	35.532	24.175	0.075
30	23.527	35.533	24.186	0.113
40	23.515	35.537	24.193	0.150
50	23.505	35.537	24.196	0.188
60	21.738	35.615	24.780	0.223
70	20.339	35.600	25.130	0.253
80	19.572	35.606	25.338	0.280
90	18.784	35.588	25.527	0.308
100	18.296	35.595	25.655	0.330
110	17.773	35.595	25.785	0.353
120	17.509	35.594	25.848	0.375
130	17.207	35.578	25.909	0.397
140	16.972	35.557	25.949	0.418
150	16.642	35.527	26.004	0.438
160	16.421	35.505	26.040	0.459
170	16.127	35.465	26.077	0.479
180	15.978	35.447	26.097	0.489
190	15.843	35.434	26.119	0.518
200	15.697	35.444	26.159	0.537
250	14.545	35.326	26.324	0.630
300	12.895	35.098	26.491	0.715
350	11.685	34.946	26.607	0.793
400	10.618	34.813	26.699	0.866
450	9.591	34.697	26.784	0.936
500	8.677	34.587	26.846	1.002
550	7.998	34.516	26.894	1.065
600	7.483	34.470	26.933	1.127
650	7.050	34.434	26.966	1.187
700	6.729	34.404	26.986	1.246
750	6.462	34.385	27.007	1.304
800	6.186	34.367	27.029	1.361
900	5.520	34.343	27.093	1.472
1000	4.882	34.347	27.171	1.576
1500	2.725	34.534	27.538	1.979
2000	2.092	34.631	27.669	2.263
2500	1.799	34.655	27.711	2.516
3000	1.566	34.672	27.742	2.757
3500	1.334	34.709	27.789	2.986
4000	0.986	34.722	27.823	3.193
4500	0.693	34.715	27.836	3.382
5000	0.602	34.712	27.839	3.567
5502	0.588	34.711	27.839	3.759

CAST CG2-90-MB -078 DATE 02 APR 90 TIME 0206 GMT
LAT 24 58.6S LONG 170 01.3W

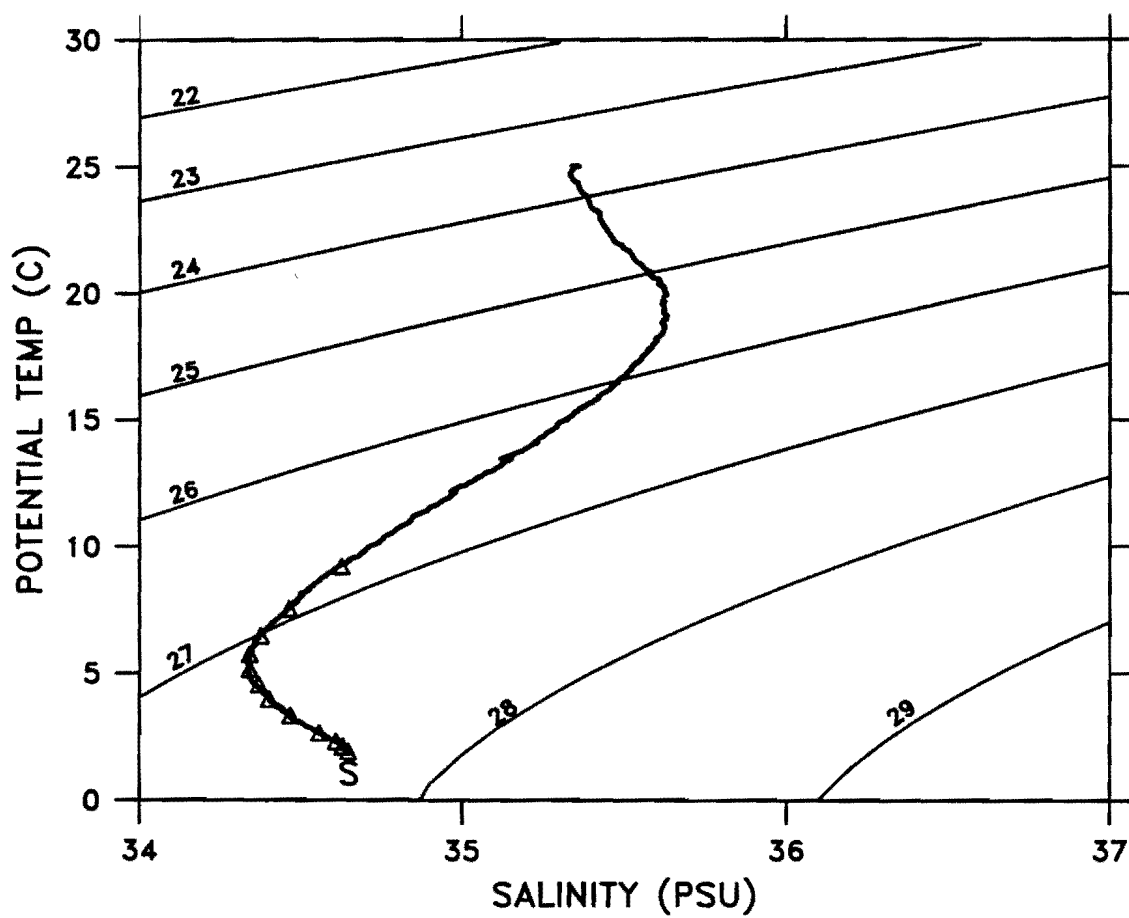


CAST CG2-90-MB -078 DATE 02 APR 90 TIME 0206 GMT
 LAT 24 58.6S LONG 170 01.3W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 114 T SPD 24 KT VISIBILITY 8
 CLOUD 4 AMOUNT 5 DRY 26.0 WET 22.0 DEPTH 5689 M

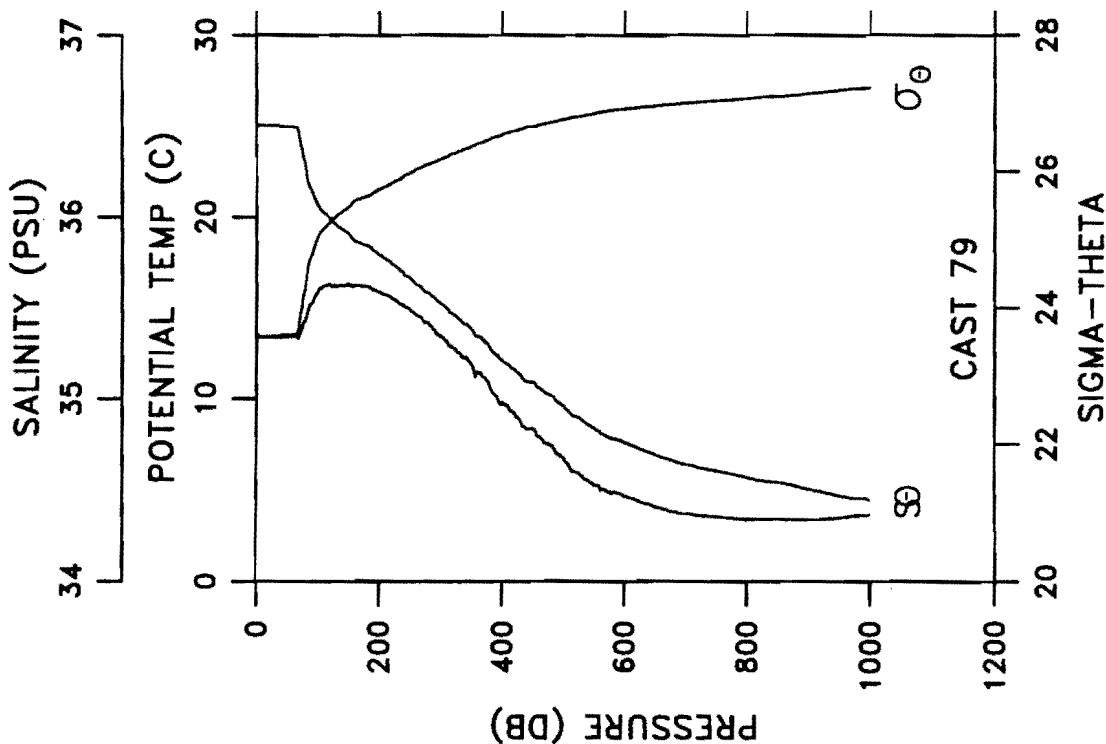


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.026	35.354	23.602	0.000
10	25.023	35.353	23.603	0.043
20	25.011	35.353	23.606	0.086
30	24.975	35.350	23.616	0.129
40	24.943	35.353	23.627	0.171
50	24.934	35.353	23.630	0.214
60	24.908	35.354	23.639	0.257
70	24.514	35.362	23.784	0.299
80	23.063	35.403	24.223	0.339
90	21.465	35.523	24.766	0.373
100	20.656	35.594	25.041	0.404
110	20.160	35.621	25.194	0.433
120	19.877	35.618	25.267	0.461
130	19.566	35.615	25.346	0.488
140	19.277	35.624	25.428	0.514
150	19.113	35.634	25.478	0.540
160	18.835	35.627	25.544	0.565
170	18.593	35.626	25.604	0.589
180	18.375	35.617	25.652	0.614
190	18.171	35.600	25.690	0.637
200	17.917	35.589	25.745	0.661
250	16.657	35.492	25.974	0.771
300	15.365	35.356	26.166	0.872
350	13.849	35.184	26.362	0.964
399	12.187	34.986	26.543	1.046

CAST CG2-90-MB -079 DATE 02 APR 90 TIME 0506 GMT
LAT 24 58.9S LONG 170 01.0W

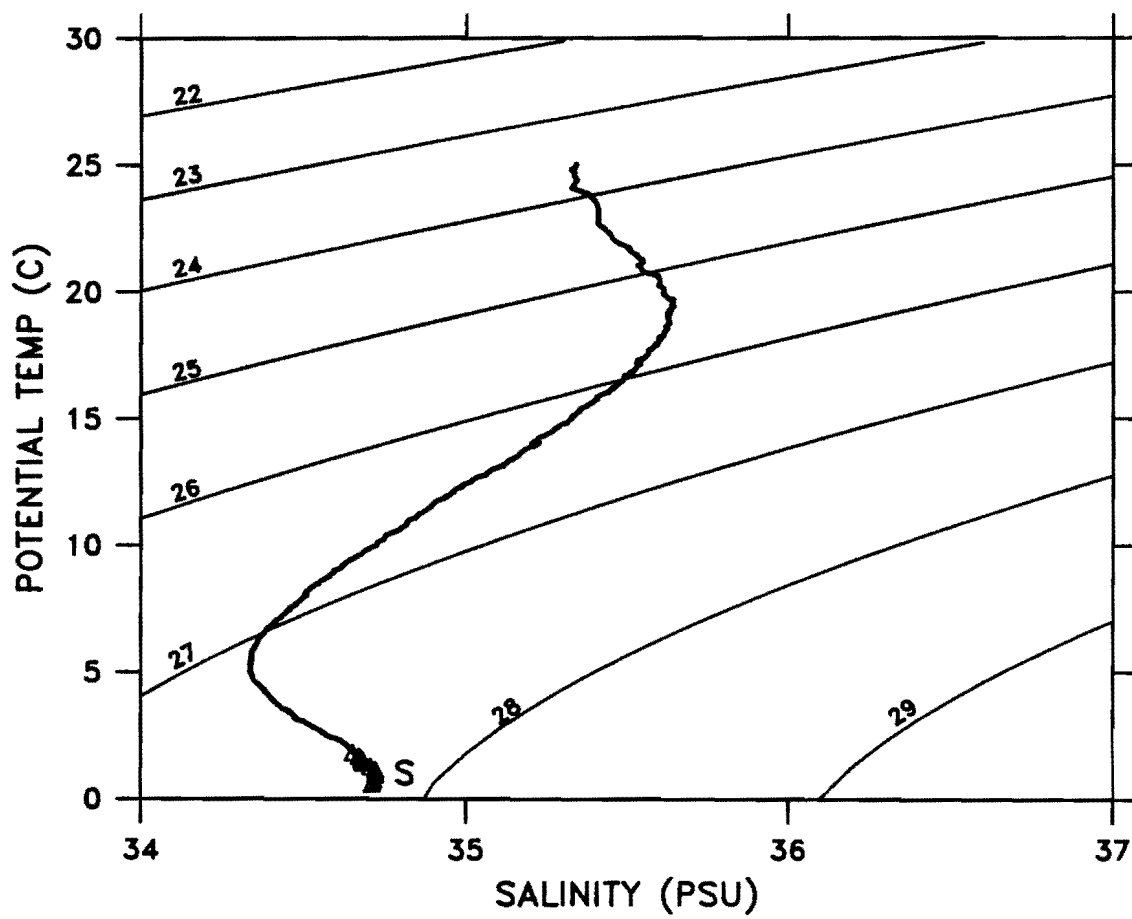


CAST 62-90-MB -079 DATE 02 APR 90 TIME 0506 GMT
 LAT 24 58.9S LONG 170 01.0W WEATHER 1 SEA STATE 3
 BAROMETER 17 WIND DIR 100 T SPD 20 KT VISIBILITY 7
 CLOUD 4 AMOUNT 5 DRY 21.0 WET 25.0 DEPTH 5784 M

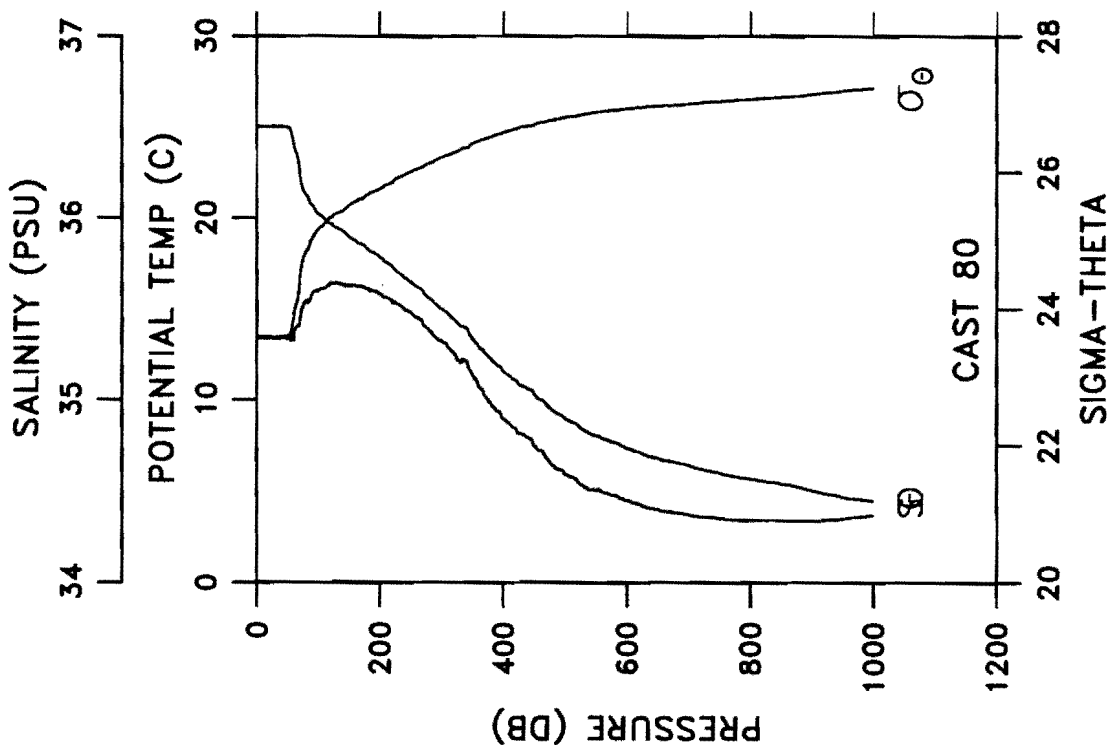


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.014	35.361	23.612	0.000
10	25.049	35.340	23.585	0.043
20	25.042	35.340	23.588	0.086
30	25.041	35.340	23.587	0.129
40	24.993	35.341	23.603	0.172
50	24.967	35.343	23.612	0.215
60	24.958	35.343	23.615	0.258
70	24.339	35.359	23.814	0.301
80	22.709	35.436	24.350	0.339
90	21.443	35.526	24.774	0.372
100	20.611	35.589	25.049	0.403
110	20.224	35.626	25.181	0.432
120	19.889	35.622	25.267	0.460
130	19.592	35.617	25.341	0.487
140	19.315	35.621	25.416	0.513
150	19.091	35.629	25.480	0.539
160	18.692	35.623	25.577	0.564
170	18.554	35.622	25.611	0.588
180	18.427	35.619	25.641	0.612
190	18.176	35.601	25.690	0.636
200	17.899	35.586	25.747	0.660
250	16.641	35.487	25.974	0.770
300	15.246	35.344	26.184	0.871
350	13.845	35.191	26.368	0.962
400	12.157	34.981	26.545	1.046
450	10.936	34.835	26.659	1.122
500	9.612	34.681	26.769	1.194
550	8.389	34.529	26.846	1.261
600	7.591	34.464	26.913	1.324
650	6.936	34.408	26.961	1.384
700	6.404	34.370	27.003	1.443
750	6.063	34.356	27.036	1.500
800	5.684	34.338	27.069	1.555
900	5.057	34.339	27.145	1.661
1000	4.483	34.364	27.229	1.758
1500	2.618	34.561	27.568	2.131
2000	2.091	34.632	27.670	2.408
2253	1.906	34.647	27.696	2.537

CAST CG2-90-MB -080 DATE 02 APR 90 TIME 0857 GMT
LAT 25 01.2S LONG 170 01.8W

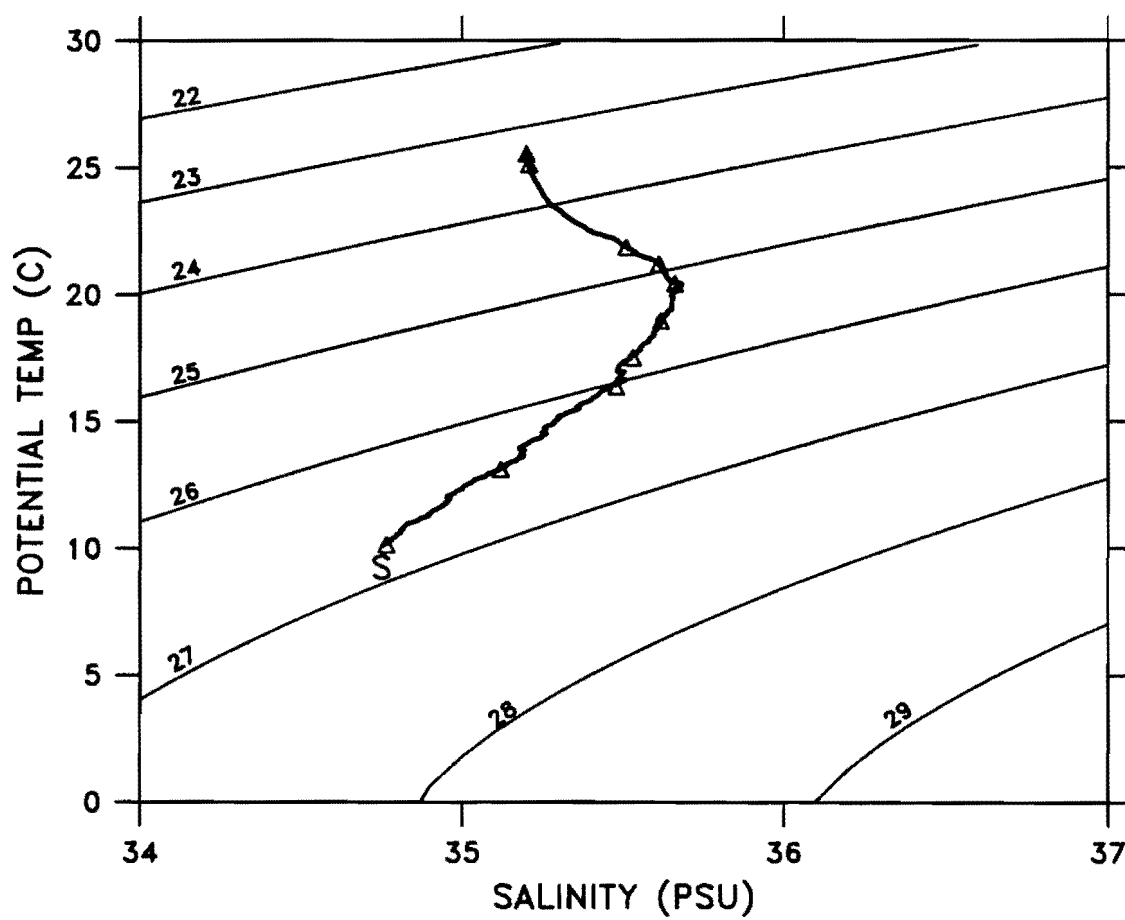


CAST CG2-90-MB -080 DATE 02 APR 90 TIME 0857 GMT
 LAT 25 01.2S LONG 170 01.8W WEATHER 2 SEA STATE 4
 BAROMETER 19 WIND DIR 122 T SPD 21 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 24.0 WET 21.5 DEPTH 5740 M

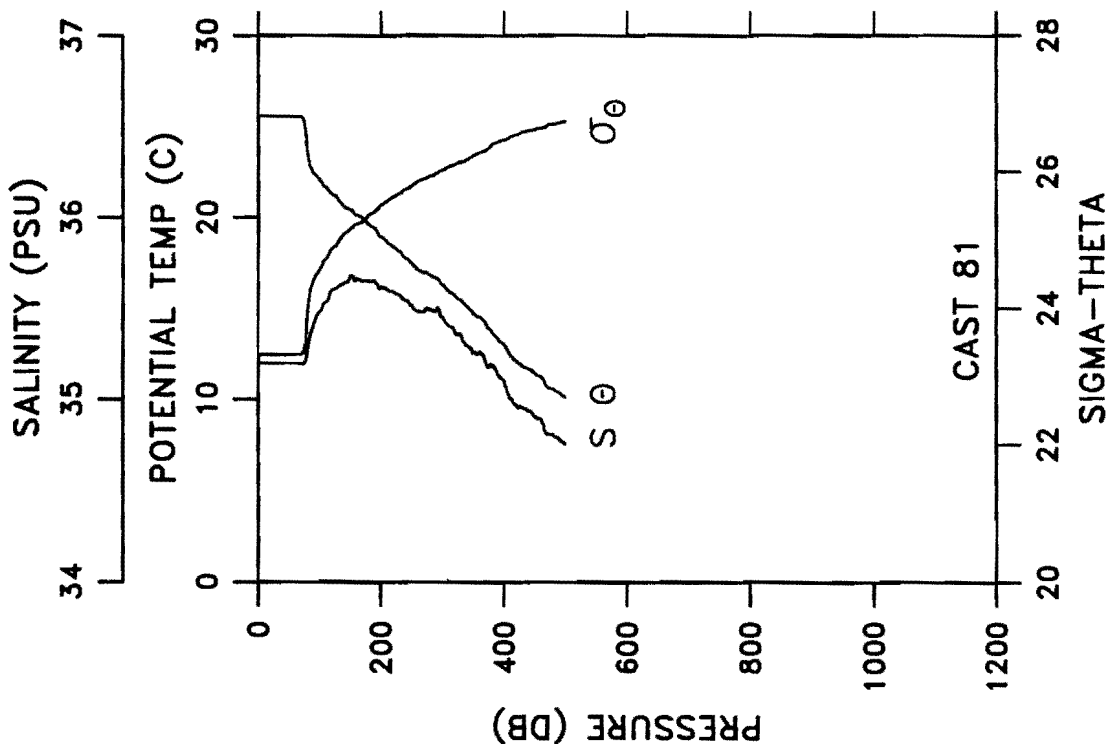


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.014	35.341	23.596	0.000
10	25.010	35.339	23.597	0.043
20	25.008	35.339	23.597	0.086
30	25.024	35.339	23.592	0.129
40	25.009	35.340	23.597	0.172
50	24.967	35.339	23.610	0.215
60	24.100	35.325	23.859	0.257
70	22.295	35.445	24.474	0.295
80	21.264	35.546	24.839	0.328
90	20.665	35.583	25.030	0.358
100	20.200	35.606	25.172	0.387
110	19.920	35.611	25.250	0.415
120	19.680	35.644	25.338	0.442
130	19.436	35.640	25.399	0.469
140	19.259	35.634	25.441	0.495
150	18.930	35.628	25.520	0.520
160	18.743	35.627	25.568	0.545
170	18.560	35.624	25.611	0.570
180	18.282	35.611	25.671	0.594
190	18.062	35.597	25.715	0.617
200	17.832	35.578	25.758	0.640
250	16.472	35.481	26.009	0.750
300	15.016	35.326	26.221	0.849
350	13.405	35.142	26.421	0.939
400	11.578	34.894	26.587	1.020
450	10.320	34.748	26.700	1.094
500	8.942	34.589	26.806	1.163
550	8.030	34.505	26.881	1.228
600	7.347	34.448	26.936	1.290
650	6.814	34.401	26.973	1.350
700	6.420	34.372	27.002	1.408
750	5.998	34.350	27.039	1.464
800	5.671	34.341	27.073	1.519
900	5.042	34.339	27.146	1.625
1000	4.455	34.368	27.236	1.722
1500	2.584	34.561	27.572	2.095
2000	2.089	34.632	27.670	2.370
2500	1.788	34.655	27.712	2.622
3000	1.528	34.673	27.746	2.862
3500	1.266	34.706	27.791	3.088
4000	0.970	34.721	27.823	3.292
4500	0.735	34.716	27.834	3.483
5000	0.623	34.711	27.837	3.670
5804	0.595	34.709	27.838	3.984

CAST CG2-90-MB -081 DATE 02 APR 90 TIME 2222 GMT
LAT 22 29.8S LONG 170 00.4W

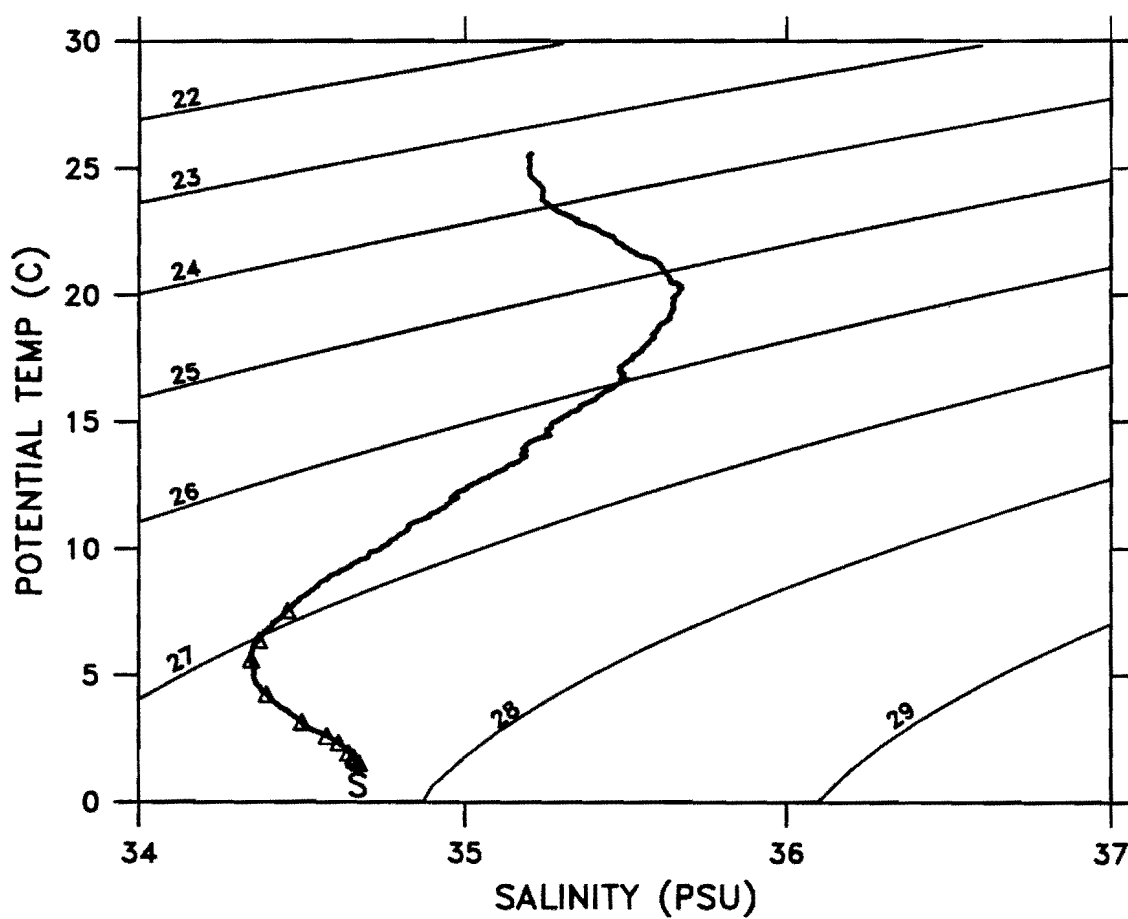


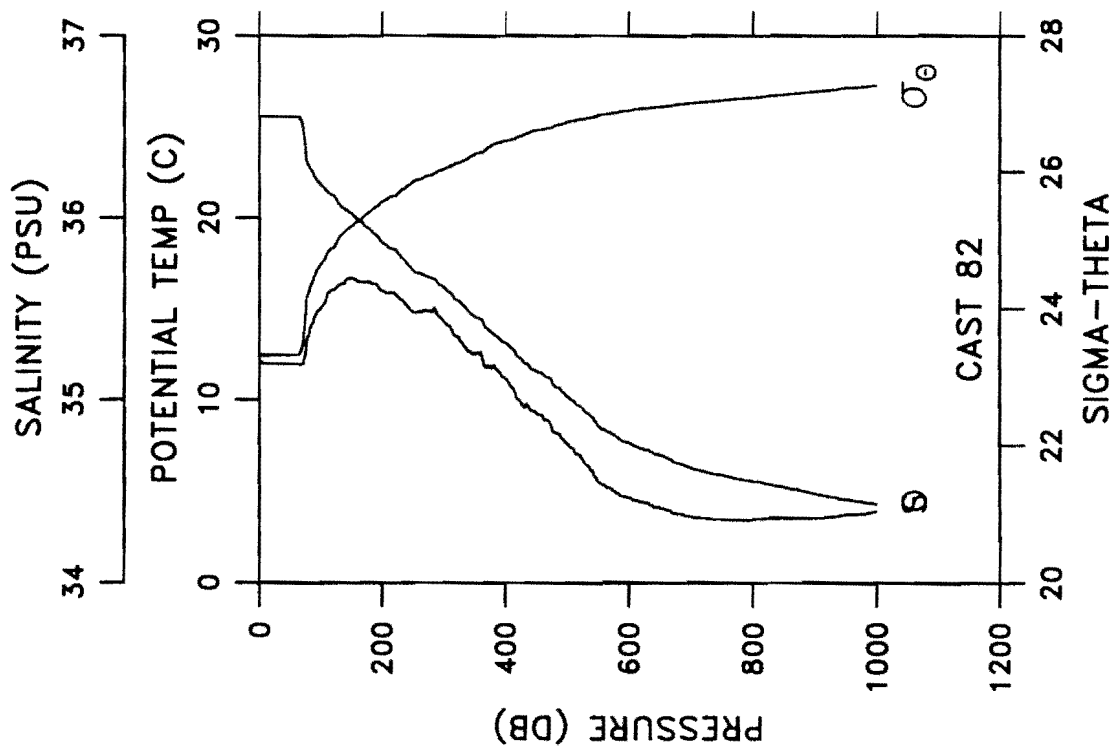
CST CG2-90-MB -081 DATE 02 APR 90 TIME 2222 GMT
 LAT 22 29.8S LONG 170 00.4W WEATHER 2 SEA STATE 4
 BAROMETER 16 WIND DIR 135 T SPD 25 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 26.8 WET 23.2 DEPTH 5468 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.551	35.198	23.324	0.000
10	25.549	35.200	23.326	0.045
20	25.550	35.200	23.326	0.091
30	25.547	35.200	23.327	0.137
40	25.547	35.200	23.327	0.182
50	25.545	35.200	23.327	0.228
60	25.544	35.200	23.328	0.273
70	25.516	35.197	23.334	0.319
80	23.498	35.278	24.001	0.363
90	22.394	35.417	24.425	0.400
100	22.048	35.486	24.575	0.434
110	21.655	35.535	24.722	0.468
120	21.300	35.601	24.871	0.500
130	21.017	35.619	24.962	0.530
140	20.592	35.638	25.092	0.560
150	20.422	35.679	25.169	0.589
160	20.114	35.661	25.237	0.617
170	19.928	35.649	25.277	0.645
180	19.601	35.649	25.363	0.672
190	19.413	35.649	25.412	0.698
200	18.920	35.618	25.515	0.724
250	17.477	35.516	25.796	0.845
300	16.300	35.449	26.025	0.953
350	14.702	35.257	26.237	1.053
400	13.048	35.102	26.463	1.141
450	11.453	34.905	26.619	1.221
500	10.103	34.752	26.741	1.284
500	10.103	34.752	26.741	1.294

CAST CG2-90-MB -082 DATE 03 APR 90 TIME 0042 GMT
LAT 22 30.4S LONG 170 00.5W

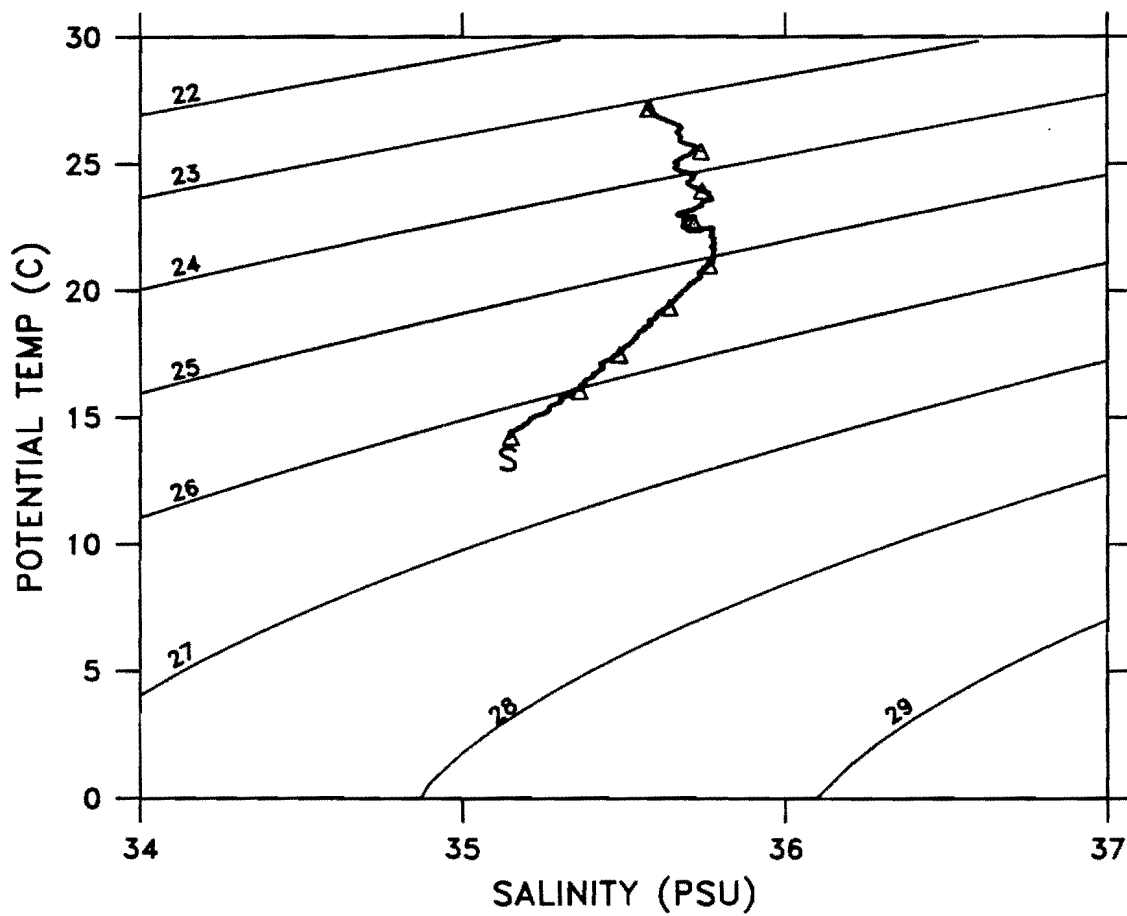




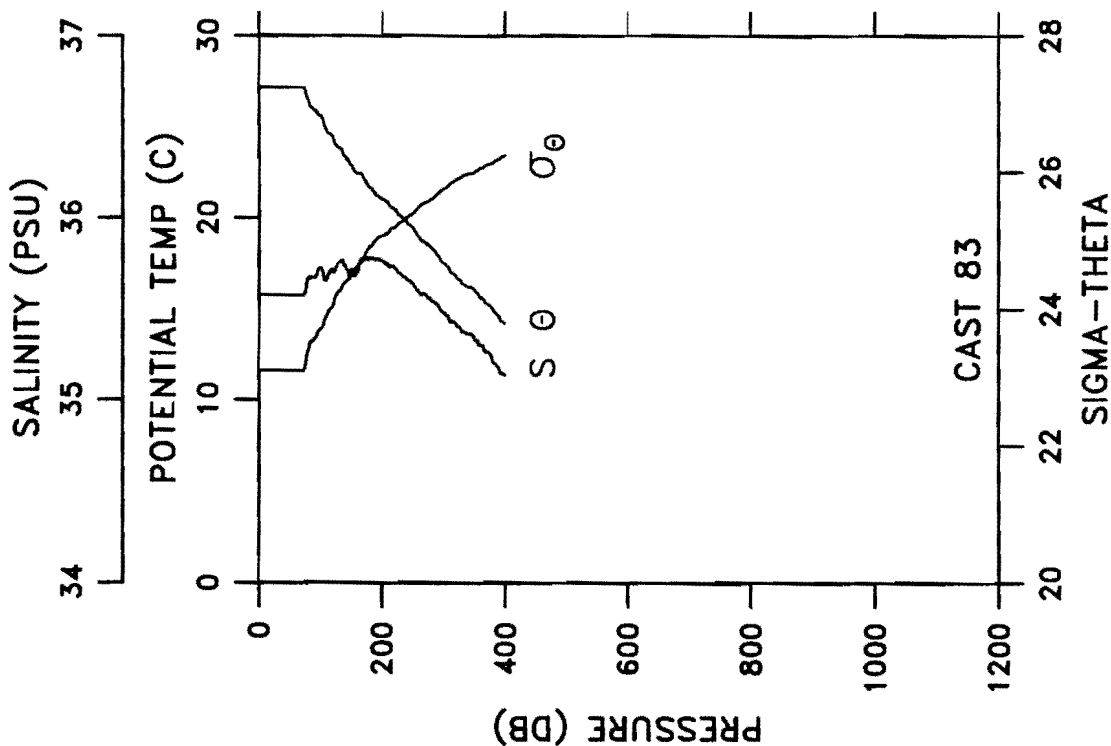
CAST CG2-90-MB -082 DATE 03 APR 90 TIME 0042 GMT
 LAT 22 30.4S LONG 170 00.5W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 126 T SPD 20 KT VISIBILITY 8
 CLOUD 9 AMOUNT 7 DRY 27.0 WET 24.0 DEPTH 5645 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.569	35.205	23.324	0.000
10	25.567	35.200	23.321	0.046
20	25.565	35.200	23.321	0.091
30	25.552	35.199	23.325	0.137
40	25.548	35.199	23.325	0.182
50	25.547	35.200	23.326	0.228
60	25.539	35.199	23.328	0.274
70	25.170	35.199	23.442	0.319
80	22.874	35.345	24.233	0.359
90	22.296	35.456	24.482	0.395
100	21.818	35.506	24.655	0.429
110	21.454	35.571	24.805	0.462
120	21.229	35.606	24.894	0.493
130	20.745	35.632	25.046	0.524
140	20.451	35.659	25.145	0.553
150	20.247	35.672	25.210	0.581
160	19.925	35.652	25.280	0.609
170	19.622	35.644	25.354	0.636
180	19.382	35.645	25.417	0.662
190	19.058	35.635	25.493	0.688
200	18.636	35.597	25.571	0.713
250	17.099	35.482	25.862	0.832
300	16.166	35.430	26.041	0.939
350	14.573	35.252	26.280	1.037
400	13.140	35.119	26.458	1.125
450	11.605	34.932	26.611	1.206
500	10.206	34.764	26.732	1.280
550	8.593	34.551	26.831	1.349
600	7.644	34.462	26.904	1.412
650	6.991	34.410	26.955	1.473
700	6.267	34.360	27.013	1.532
750	5.870	34.346	27.052	1.588
800	5.528	34.345	27.094	1.642
850	4.871	34.354	27.178	1.744
900	4.282	34.390	27.272	1.838
1000	2.593	34.580	27.586	2.193
1500	2.114	34.631	27.867	2.470
2000	1.762	34.659	27.717	2.723
2500	1.528	34.674	27.746	2.960

CAST CG2-90-MB -083 DATE 03 APR 90 TIME 1333 GMT
LAT 20 00.4S LONG 170 00.4W

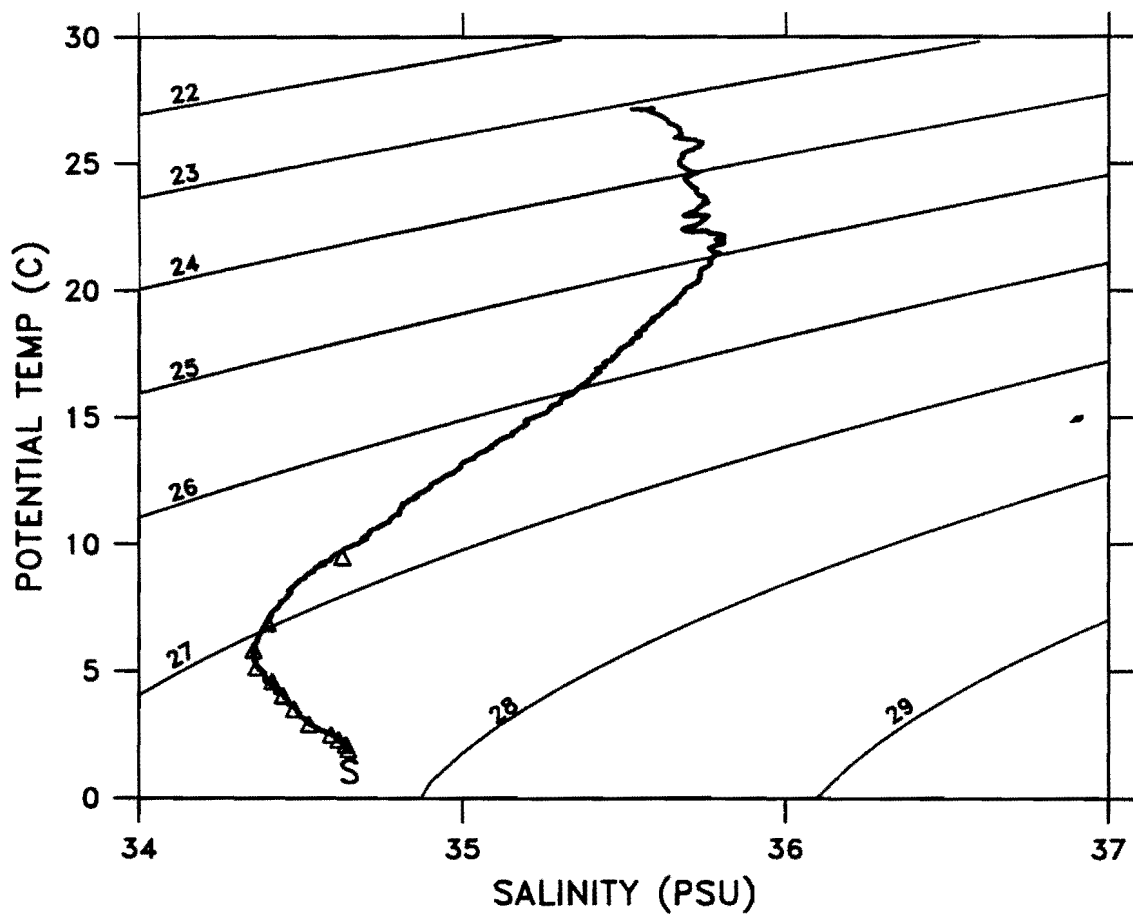


CAST 002-90-MB -083 DATE 03 APR 90 TIME 1333 GMT
 LAT 20 00.4S LONG 170 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 125 T SPD 22 KT VISIBILITY 8
 CLOUD AMOUNT 7 DRY 26.0 WET 23.0 DEPTH 5320 M

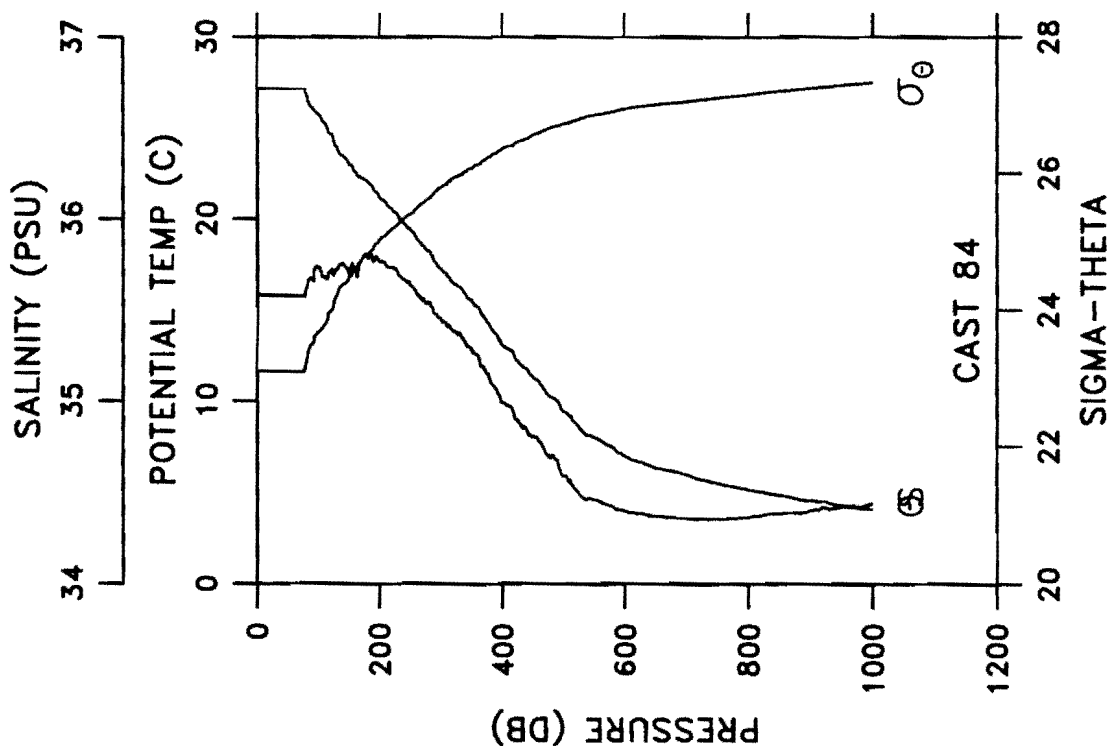


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.154	35.581	23.108	0.000
10	27.169	35.578	23.101	0.048
20	27.181	35.577	23.096	0.095
30	27.177	35.577	23.098	0.143
40	27.172	35.577	23.098	0.191
50	27.177	35.577	23.098	0.239
60	27.175	35.577	23.098	0.286
70	27.178	35.577	23.097	0.334
80	26.456	35.677	23.402	0.381
90	25.934	35.672	23.563	0.425
100	25.614	35.727	23.704	0.468
110	24.798	35.662	23.905	0.510
120	24.466	35.716	24.046	0.549
130	23.854	35.759	24.262	0.587
140	23.339	35.742	24.400	0.624
150	22.920	35.718	24.503	0.659
160	22.438	35.705	24.632	0.693
170	22.222	35.776	24.747	0.727
180	21.639	35.780	24.913	0.758
190	21.261	35.771	25.011	0.789
200	21.025	35.763	25.069	0.819
250	19.438	35.639	25.398	0.960
300	17.518	35.482	25.761	1.085
350	16.050	35.335	25.995	1.195
400	14.228	35.139	26.247	1.295

CAST CG2-90-MB -084 DATE 03 APR 90 TIME 1548 GMT
LAT 20 00.9S LONG 170 00.0W



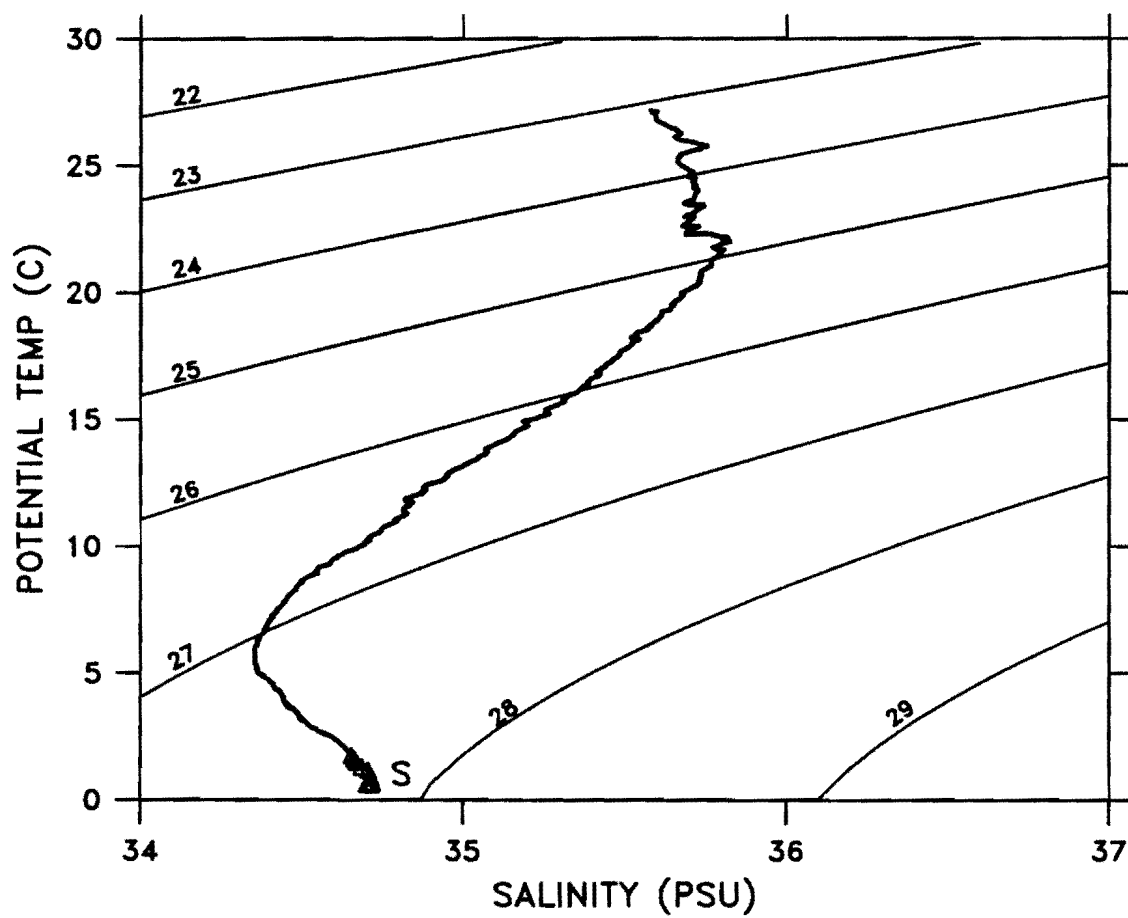
CAST 032-90-MB -084 DATE 03 APR 90 TIME 1548 GMT
 LAT 20 00.9S LONG 170 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 120 T SPD 18 KT VISIBILITY 7
 CLOUD 3 AMOUNT 3 DRY 25.5 WET 22.5 DEPTH 5351 M



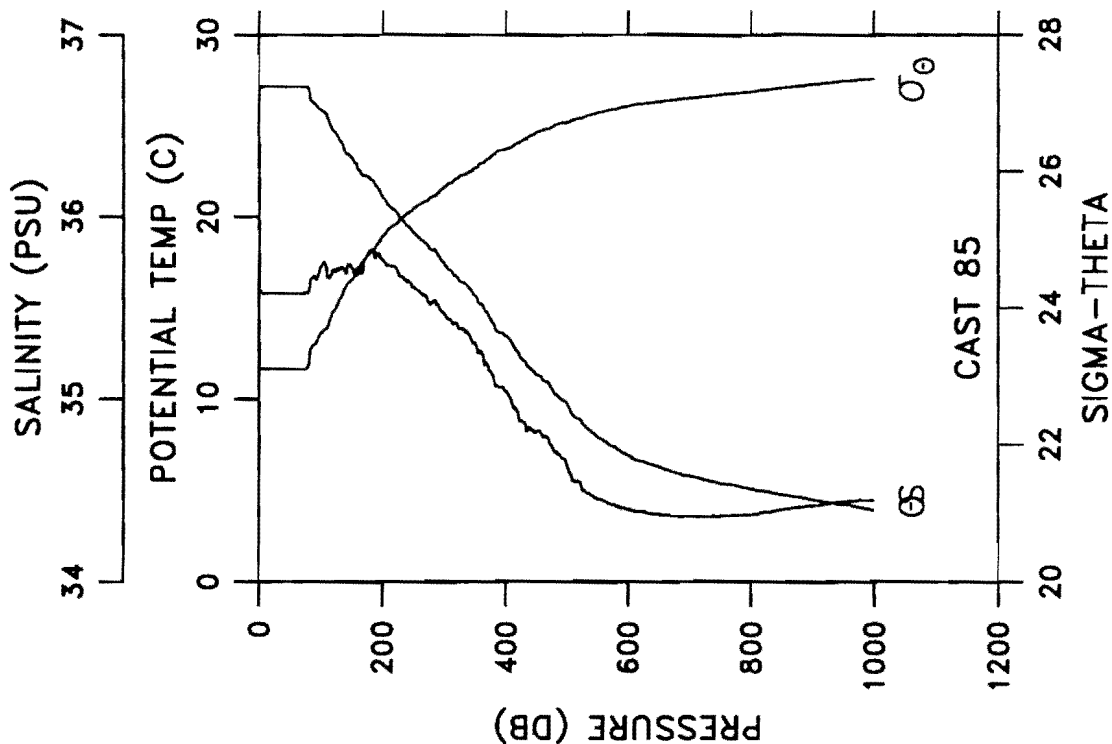
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.131	35.521	23.070	0.000
10	27.167	35.580	23.103	0.048
20	27.168	35.579	23.103	0.095
30	27.159	35.579	23.105	0.143
40	27.172	35.578	23.100	0.191
50	27.167	35.578	23.102	0.239
60	27.168	35.578	23.101	0.286
70	27.167	35.578	23.102	0.334
80	26.846	35.613	23.231	0.382
90	26.107	35.671	23.508	0.427
100	25.709	35.731	23.677	0.470
110	25.249	35.677	23.779	0.512
120	24.680	35.710	23.983	0.553
130	23.916	35.720	24.213	0.592
140	23.466	35.758	24.374	0.628
150	22.955	35.683	24.466	0.664
160	22.564	35.717	24.605	0.698
170	22.241	35.764	24.732	0.732
180	22.051	35.789	24.804	0.764
190	21.592	35.764	24.914	0.786
200	21.182	35.764	25.027	0.826
250	19.393	35.633	25.405	0.968
300	17.262	35.453	25.800	1.082
350	15.531	35.291	26.079	1.200
400	13.086	34.993	26.371	1.295
450	11.297	34.806	26.571	1.378
500	9.413	34.591	26.731	1.453
550	7.974	34.461	26.855	1.520
600	6.995	34.400	26.947	1.583
650	6.348	34.371	27.011	1.641
700	5.971	34.358	27.050	1.697
750	5.522	34.356	27.103	1.750
800	5.160	34.366	27.154	1.802
850	4.592	34.405	27.250	1.897
900	4.097	34.443	27.333	1.984
1000	2.483	34.596	27.609	2.317
1500	2.079	34.635	27.673	2.587
2000	1.904	34.648	27.698	2.713
2249				

CAST CG2-90-MB -085 DATE 03 APR 90 TIME 1926 GMT

LAT 20 01.5S LONG 170 00.8W

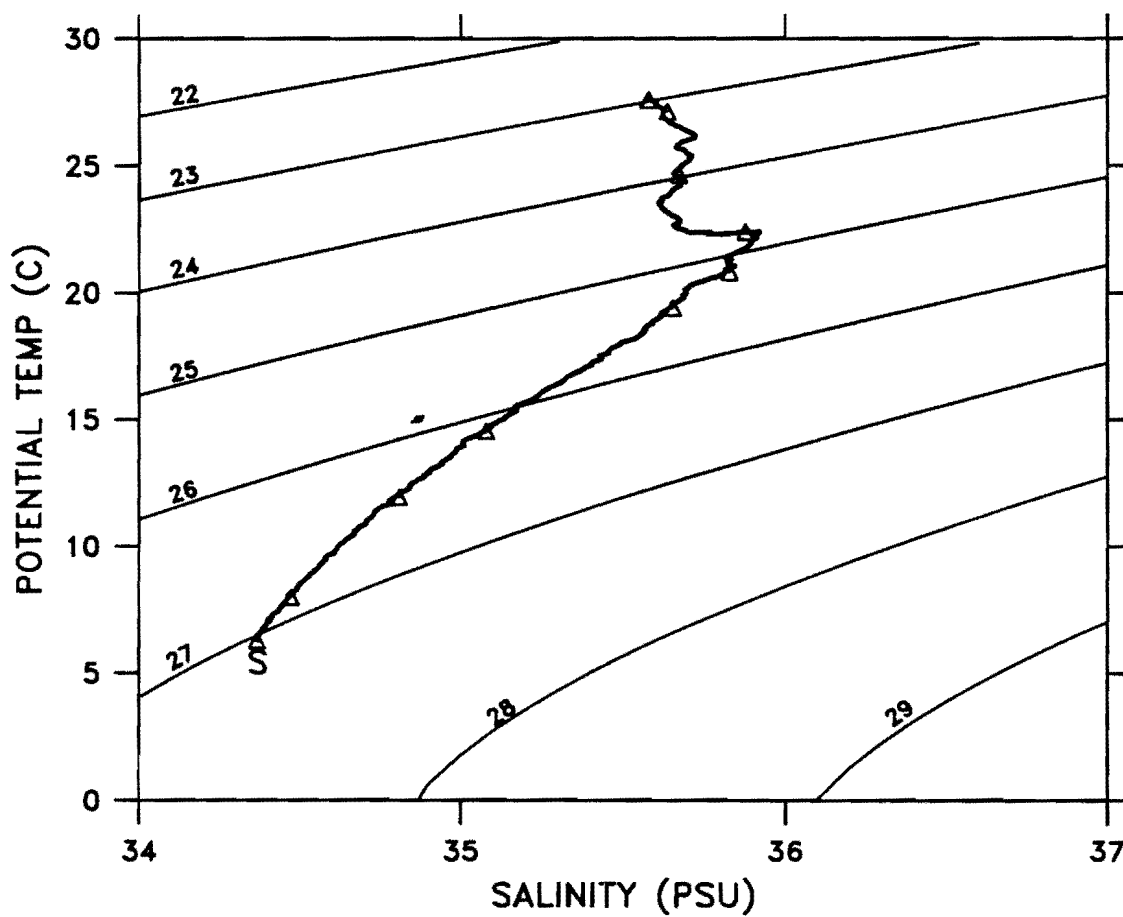


CAST 85-90-MB -085 DATE 03 APR 90 TIME 1926 GMT
 LAT 20 01.55 LONG 170 00.8W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 132 T SPD 24 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 26.2 WET 23.4 DEPTH 5502 M

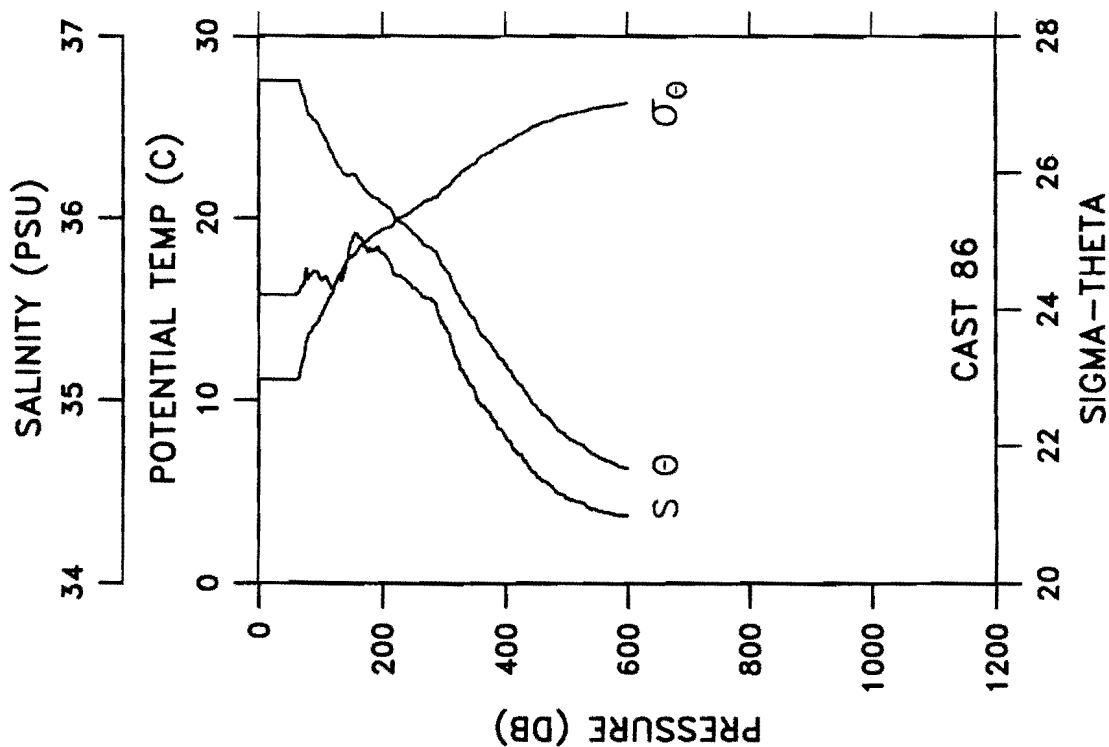


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.130	35.599	23.130	0.000
10	27.155	35.582	23.108	0.047
20	27.156	35.581	23.108	0.095
30	27.158	35.580	23.106	0.143
40	27.159	35.579	23.105	0.190
50	27.156	35.579	23.106	0.238
60	27.159	35.579	23.105	0.286
70	27.145	35.580	23.111	0.334
80	27.040	35.589	23.151	0.382
90	26.251	35.671	23.463	0.427
100	25.871	35.725	23.622	0.471
110	25.620	35.715	23.693	0.514
120	24.747	35.708	23.955	0.555
130	24.285	35.718	24.108	0.594
140	23.593	35.693	24.288	0.632
150	23.302	35.730	24.401	0.668
160	22.609	35.677	24.561	0.704
170	22.310	35.741	24.685	0.737
180	22.173	35.816	24.791	0.770
190	21.706	35.790	24.902	0.802
200	21.090	35.767	25.055	0.832
250	19.150	35.612	25.452	0.972
300	17.453	35.472	25.769	1.096
350	15.691	35.308	26.056	1.205
400	13.457	35.043	26.334	1.301
450	11.344	34.820	26.573	1.385
500	9.772	34.633	26.705	1.460
550	7.924	34.453	26.856	1.528
600	6.910	34.395	26.955	1.589
650	6.292	34.369	27.017	1.647
700	5.791	34.357	27.071	1.702
750	5.369	34.359	27.124	1.755
800	5.071	34.366	27.164	1.805
900	4.481	34.415	27.270	1.899
1000	3.907	34.446	27.355	1.984
1500	2.481	34.596	27.609	2.310
2000	2.082	34.634	27.672	2.579
2500	1.760	34.658	27.716	2.830
3000	1.513	34.674	27.748	3.067
3500	1.231	34.701	27.789	3.292
4000	0.908	34.720	27.826	3.494
4500	0.674	34.714	27.836	3.679
5000	0.613	34.711	27.838	3.865
5472	0.602	34.710	27.838	4.046

CAST CG2-90-MB -086 DATE 04 APR 90 TIME 0841 GMT
LAT 17 29.5S LONG 170 00.3W

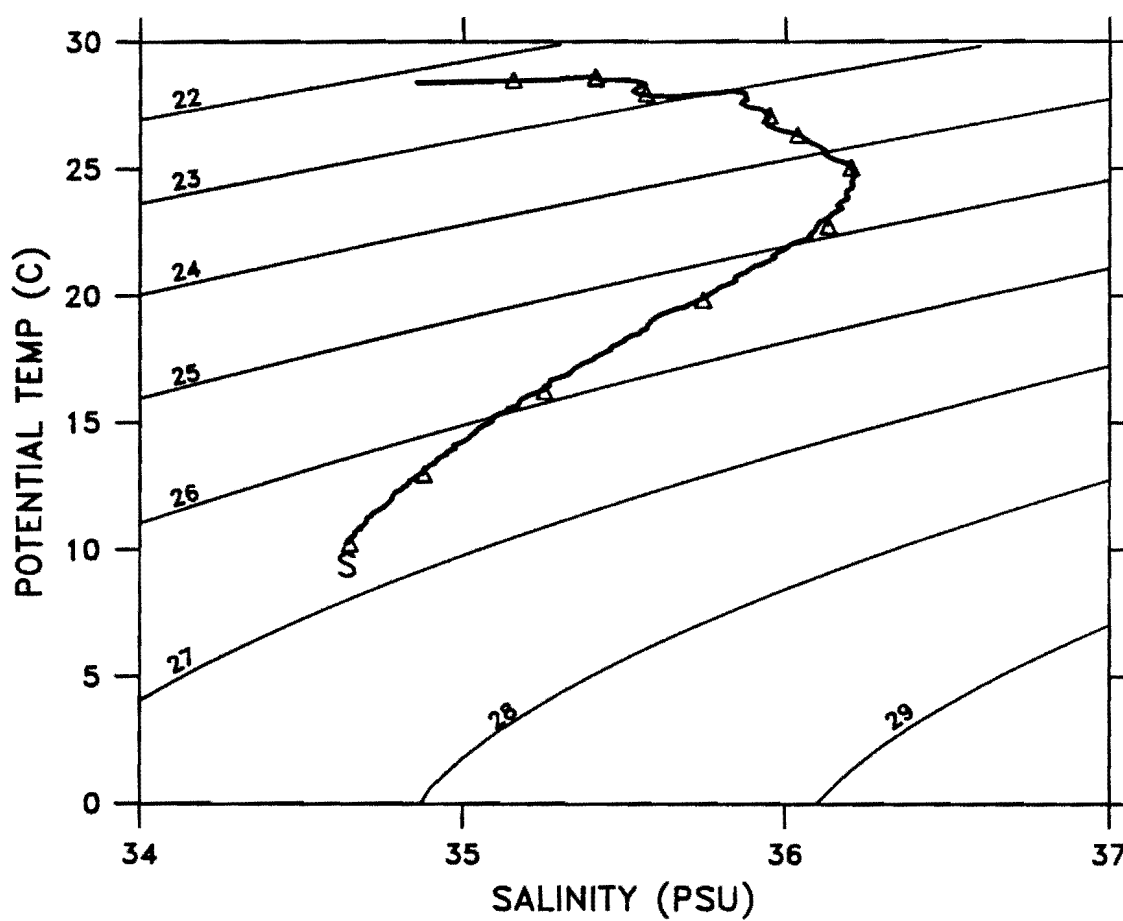


CAST CG2-90-MB -086 DATE 04 APR 90 TIME 0841 GMT
 LAT 17 29.55 LONG 170 00.3W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 117 T SPD 25 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 26.9 WET 24.3 DEPTH 4848 M

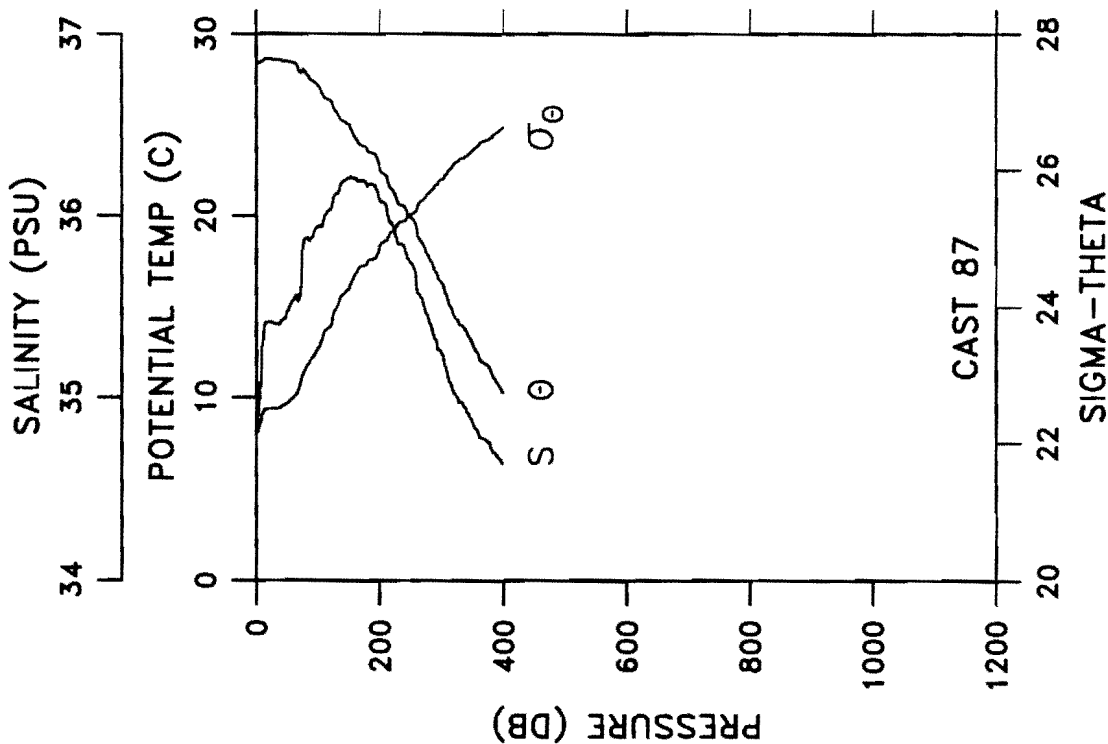


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.556	35.586	22.983	0.000
10	27.564	35.580	22.975	0.049
20	27.563	35.580	22.975	0.098
30	27.567	35.579	22.974	0.147
40	27.568	35.579	22.973	0.196
50	27.568	35.579	22.973	0.245
60	27.565	35.581	22.975	0.294
70	26.954	35.623	23.204	0.342
80	25.707	35.662	23.626	0.387
90	25.383	35.711	23.763	0.430
100	24.820	35.665	23.900	0.471
110	24.235	35.676	24.085	0.510
120	23.540	35.610	24.241	0.548
130	22.799	35.676	24.506	0.584
140	22.394	35.714	24.651	0.618
150	22.406	35.866	24.763	0.651
160	22.188	35.911	24.859	0.683
170	21.684	35.860	24.961	0.714
180	21.324	35.833	25.040	0.744
190	21.084	35.831	25.106	0.774
200	20.797	35.808	25.166	0.803
250	19.143	35.616	25.457	0.940
300	17.288	35.408	25.759	1.065
350	14.430	35.052	26.136	1.172
400	12.007	34.807	26.438	1.262
450	9.706	34.598	26.688	1.340
500	8.004	34.466	26.854	1.408
550	6.960	34.398	26.951	1.469
600	6.282	34.370	27.019	1.527
600	6.282	34.370	27.019	1.527

CAST CG2-90-MB -087 DATE 04 APR 90 TIME 2202 GMT
LAT 15 00.2S LONG 170 00.6W

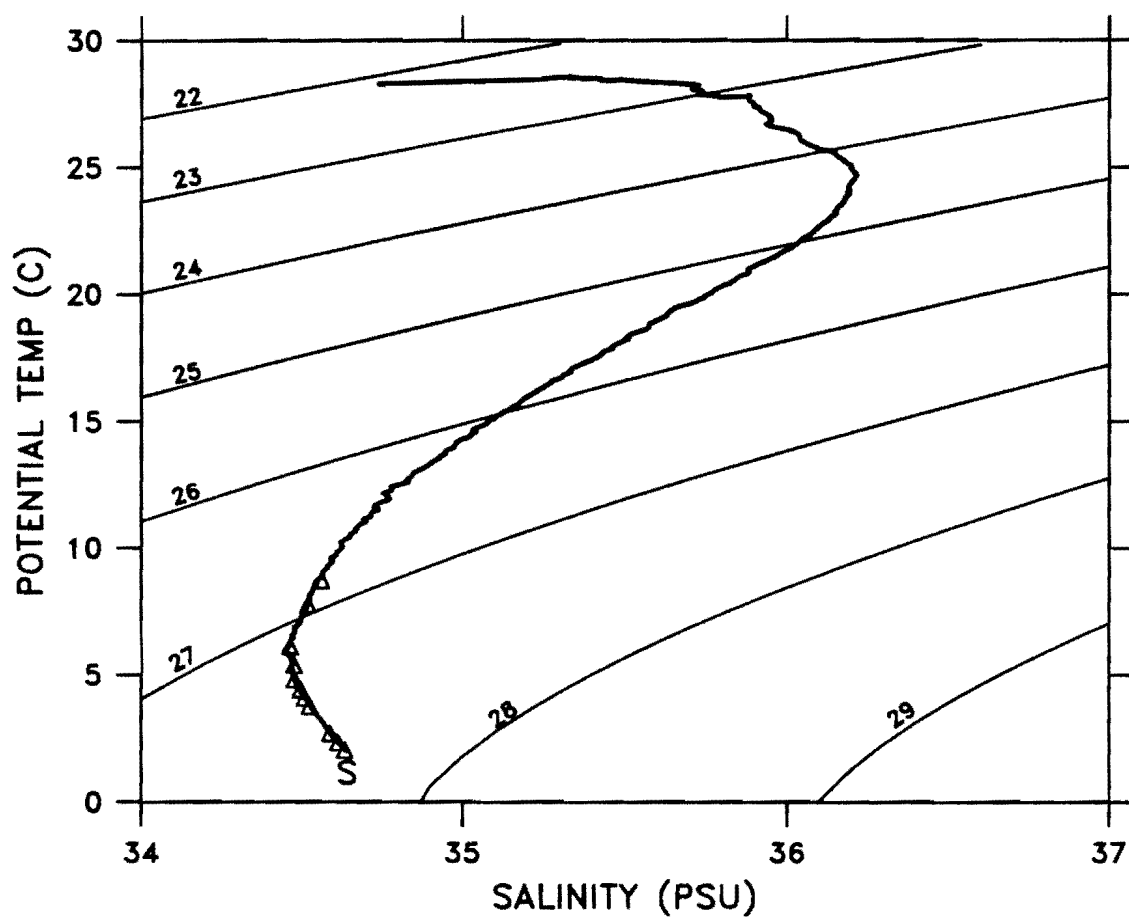


CAST CG2-80-MB -087 DATE 04 APR 90 TIME 2202 GMT
 LAT 15 00.2S LONG 170 00.6W WEATHER 6 SEA STATE 3
 BAROMETER 12 WIND DIR 168 T SPD 08 KT VISIBILITY 5
 CLOUD 8 AMOUNT 8 DRY 25.0 WET 24.5 DEPTH 4886 M

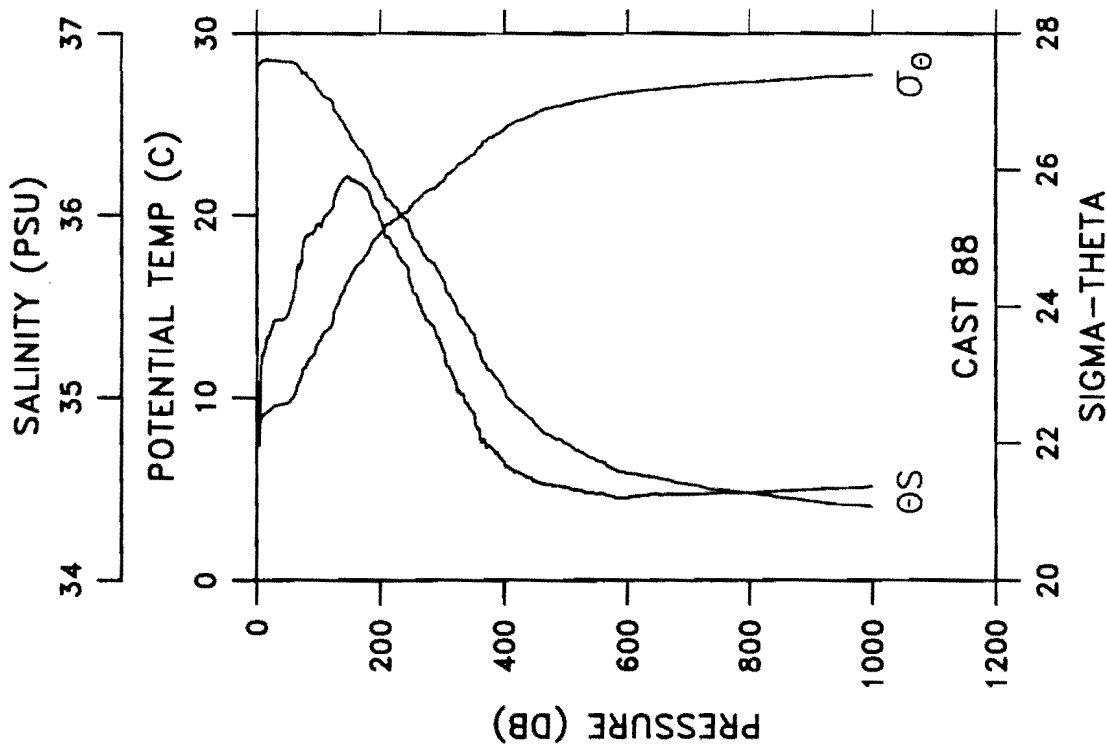


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DTN-M)
0	28.387	34.855	22.161	0.000
10	28.518	35.287	22.442	0.056
20	28.633	35.417	22.502	0.109
30	28.591	35.409	22.510	0.163
40	28.541	35.420	22.535	0.216
50	28.496	35.474	22.590	0.269
60	28.432	35.536	22.658	0.321
70	27.919	35.546	22.834	0.373
80	27.844	35.876	23.074	0.422
90	27.441	35.878	23.239	0.469
100	27.134	35.943	23.387	0.515
110	26.487	35.989	23.628	0.560
120	26.347	36.036	23.708	0.602
130	25.684	36.123	23.982	0.643
140	25.214	36.188	24.176	0.682
150	25.006	36.207	24.254	0.720
160	24.278	36.206	24.473	0.756
170	23.859	36.192	24.588	0.791
180	23.565	36.160	24.650	0.825
190	23.423	36.170	24.700	0.858
200	22.528	36.088	24.896	0.891
250	19.916	35.742	25.351	1.036
300	16.326	35.251	25.866	1.159
350	12.975	34.864	26.293	1.260
399	10.250	34.638	26.627	1.341

CAST CG2-90-MB -088 DATE 05 APR 90 TIME 0012 GMT
LAT 14 58.7S LONG 170 02.9W

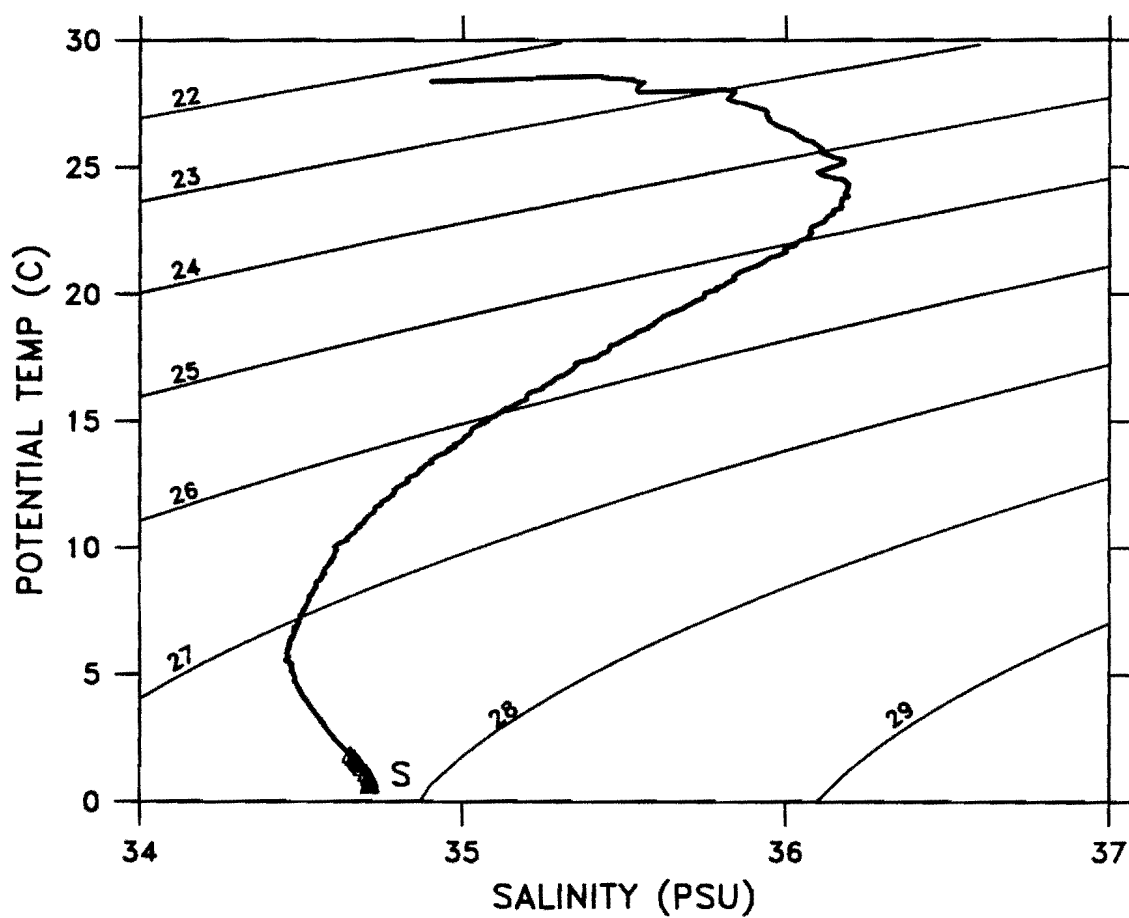


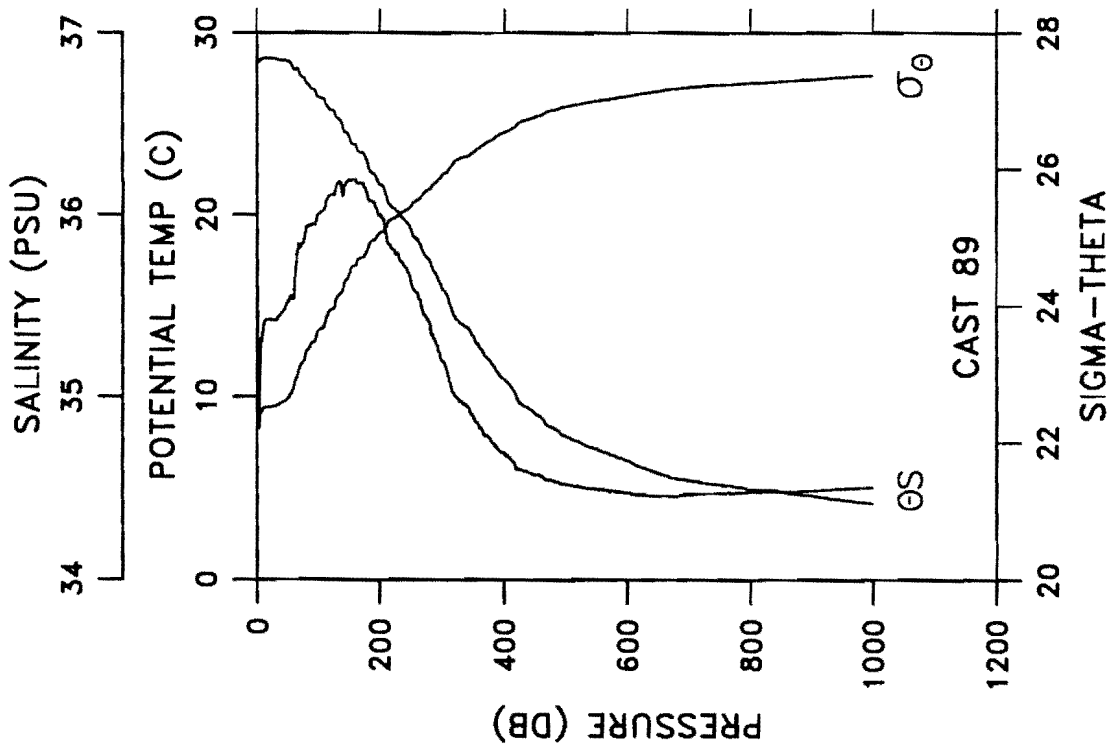
CAST CG2-90-MB -088 DATE 05 APR 90 TIME 0012 GMT
LAT 14 58.7S LONG 170 02.9W WEATHER 6 SEA STATE 3
BAROMETER 10 WIND DIR 085 T SPD 04 KT VISIBILITY 5
CLOUD 8 AMOUNT 8 DRY 25.0 WET 25.0 DEPTH 4771 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.287	34.737	22.105	0.000
10	28.503	35.240	22.412	0.056
20	28.532	35.339	22.477	0.110
30	28.500	35.424	22.551	0.163
40	28.446	35.425	22.570	0.216
50	28.443	35.455	22.593	0.269
60	28.386	35.563	22.693	0.321
70	28.044	35.734	22.935	0.372
80	27.825	35.864	23.119	0.420
90	27.388	35.898	23.272	0.467
100	26.862	35.952	23.481	0.513
110	26.494	35.995	23.631	0.557
120	26.322	36.031	23.712	0.599
130	25.601	36.140	24.020	0.640
140	25.076	36.200	24.227	0.678
150	24.510	36.205	24.402	0.715
160	23.905	36.187	24.570	0.750
170	23.575	36.171	24.656	0.784
180	23.012	36.132	24.791	0.817
190	22.148	36.045	24.972	0.848
200	21.593	35.975	25.074	0.878
250	19.059	35.614	25.476	1.017
300	16.514	35.269	25.836	1.137
350	13.531	34.924	26.226	1.240
400	10.430	34.649	26.604	1.323
450	8.577	34.542	26.826	1.393
500	7.470	34.508	26.965	1.454
550	6.563	34.468	27.059	1.510
600	5.844	34.448	27.136	1.562
650	5.596	34.471	27.185	1.611
700	5.250	34.471	27.227	1.658
750	4.947	34.478	27.268	1.703
800	4.775	34.479	27.288	1.747
900	4.345	34.497	27.350	1.831
1000	4.035	34.513	27.396	1.910
1500	2.687	34.590	27.586	2.243
2000	2.030	34.638	27.679	2.520
2016	2.007	34.639	27.682	2.528

CAST CG2-90-MB -089 DATE 05 APR 90 TIME 0438 GMT
LAT 15 00.3S LONG 170 00.4W

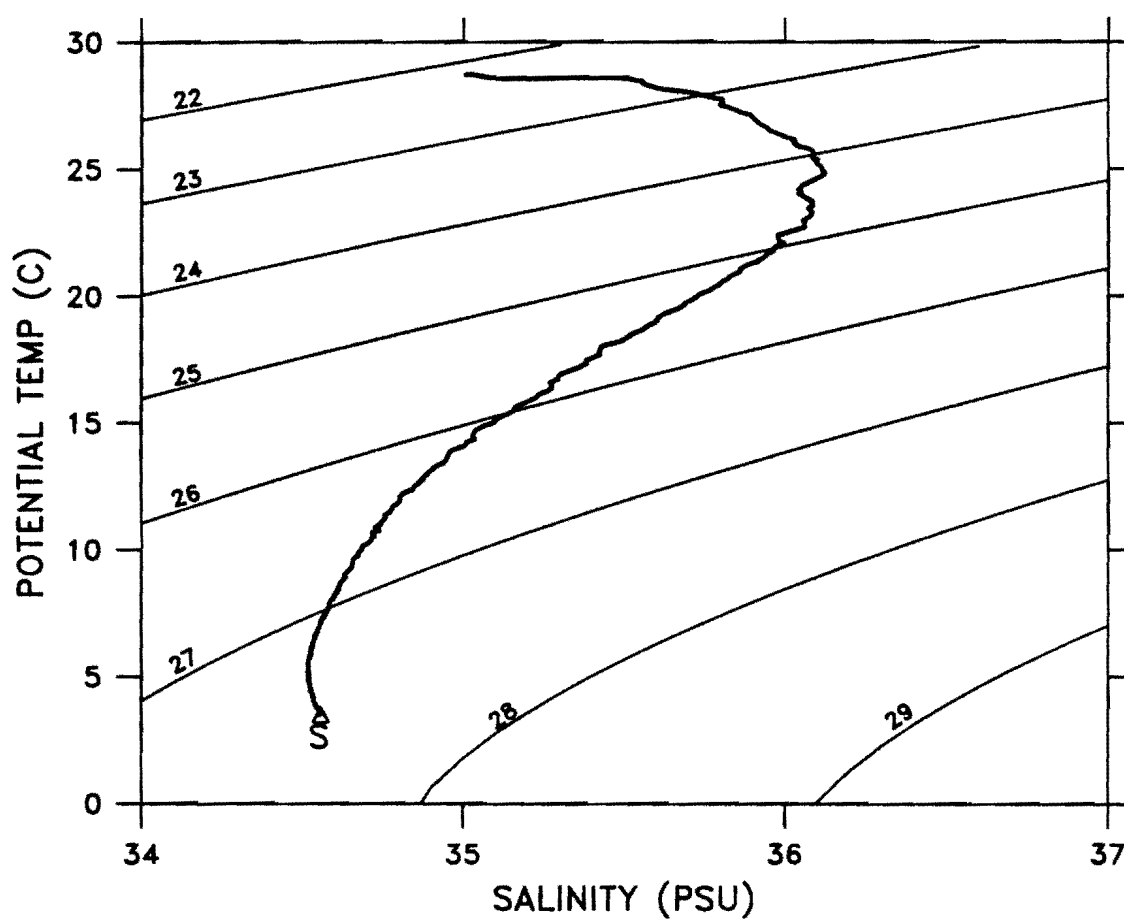




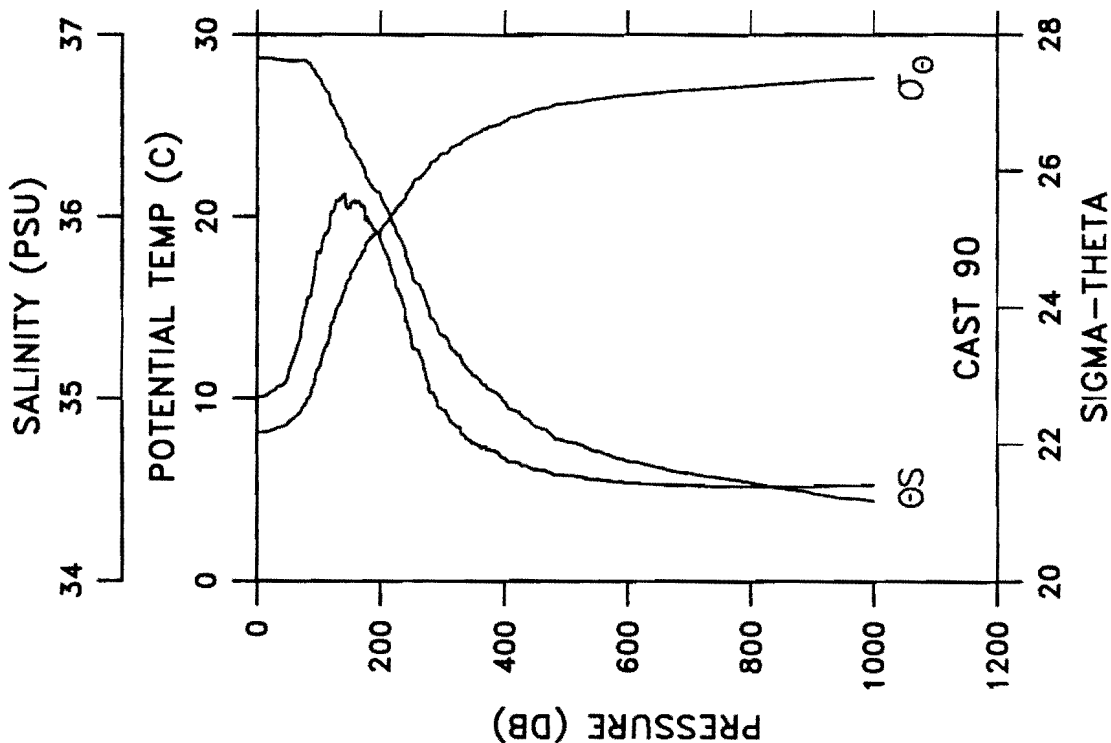
CAST CG2-90-MB -089 DATE 05 APR 90 TIME 0438 GMT
 LAT 15 00.3S LONG 170 00.4W WEATHER 2 SEA STATE 3
 BAROMETER 08 WIND DIR 105 T SPD 14 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 26.4 WET 26.0 DEPTH 4833 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	28.385	34.901	22.196	0.000
10	28.585	35.390	22.498	0.055
20	28.608	35.424	22.516	0.108
30	28.561	35.419	22.527	0.161
40	28.488	35.459	22.581	0.214
50	28.455	35.527	22.643	0.267
60	27.971	35.542	22.814	0.318
70	27.674	35.819	23.119	0.368
80	27.247	35.934	23.344	0.415
90	26.921	35.950	23.461	0.460
100	26.483	36.005	23.642	0.504
110	26.316	36.033	23.716	0.546
120	25.768	36.110	23.945	0.587
130	25.348	36.163	24.116	0.627
140	24.807	36.099	24.232	0.665
150	24.339	36.194	24.446	0.701
160	23.843	36.193	24.593	0.736
170	23.418	36.173	24.703	0.769
180	22.867	36.118	24.822	0.802
190	22.249	36.070	24.962	0.833
200	21.666	36.000	25.073	0.863
250	19.230	35.638	25.451	1.002
300	15.953	35.195	25.910	1.122
350	13.334	34.896	26.246	1.222
400	10.976	34.693	26.541	1.308
450	9.063	34.569	26.770	1.380
500	7.838	34.521	26.922	1.444
550	7.151	34.495	27.000	1.503
600	6.505	34.476	27.073	1.559
650	5.805	34.454	27.146	1.610
700	5.439	34.467	27.201	1.659
750	5.181	34.470	27.234	1.705
800	4.970	34.479	27.266	1.751
900	4.603	34.487	27.313	1.838
1000	4.159	34.508	27.377	1.920
1500	2.748	34.586	27.577	2.261
2000	2.016	34.639	27.681	2.538
2500	1.710	34.664	27.725	2.783
3000	1.495	34.677	27.751	3.016
3500	1.287	34.687	27.775	3.243
4000	0.952	34.712	27.817	3.455
4500	0.692	34.713	27.835	3.645
4873	0.639	34.712	27.837	3.784

CAST CG2-90-MB -090 DATE 05 APR 90 TIME 2237 GMT
LAT 11 26.4S LONG 169 36.5W

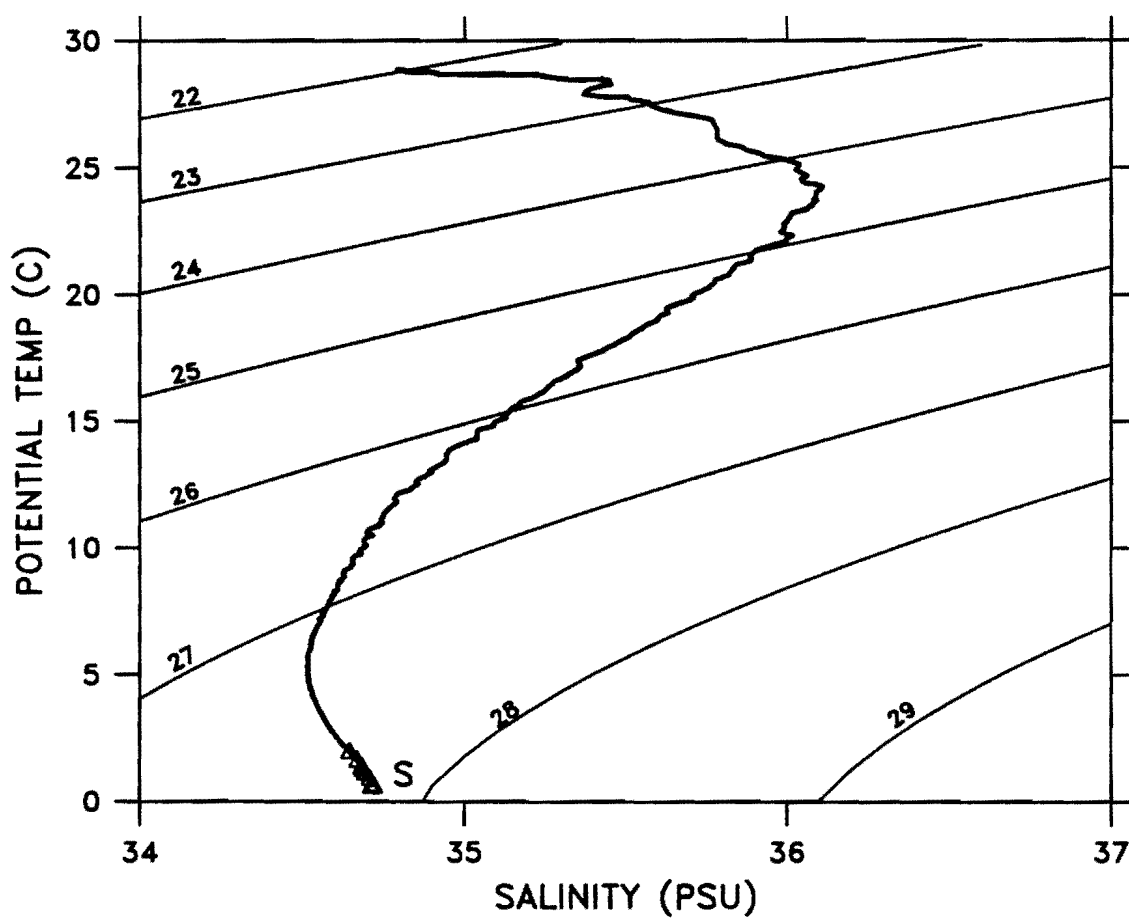


CAST CG2-90-MB -090 DATE 05 APR 90 TIME 2237 GMT
 LAT 11 26.4S LONG 169 36.5W WEATHER 6 SEA STATE 3
 BAROMETER 10 WIND DIR 329 T SPD 10 KT VISIBILITY 8
 CLOUD 7 AMOUNT 7 DRY 26.0 WET 25.5 DEPTH 5216 M

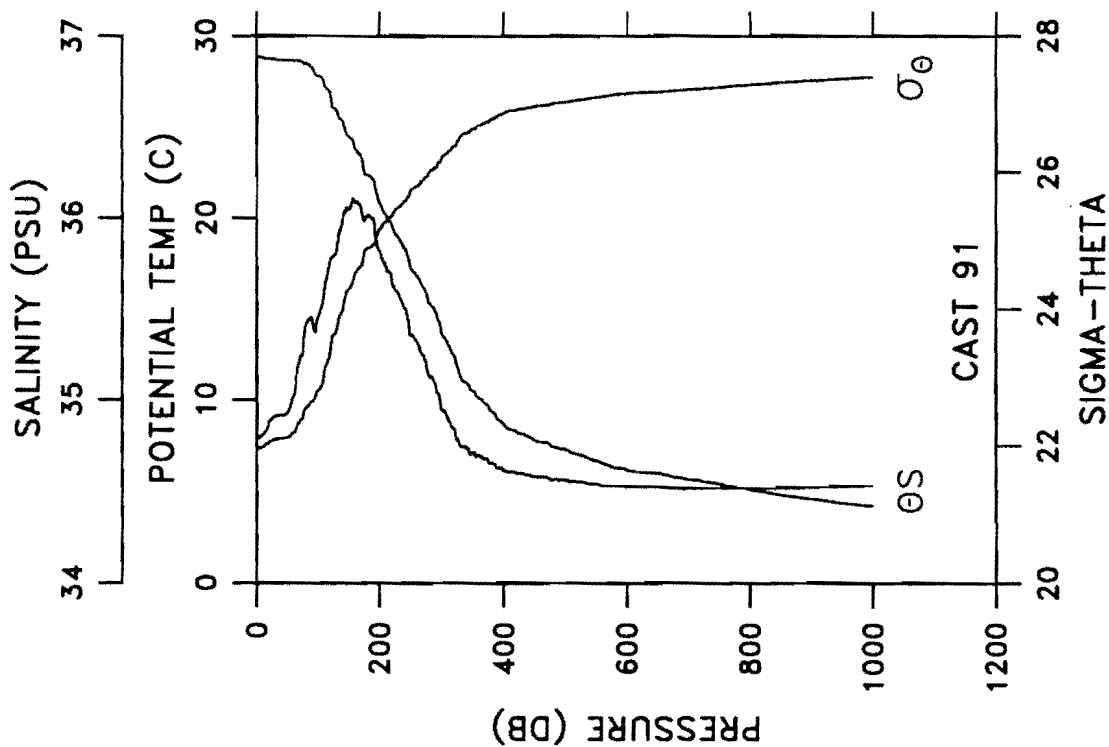


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.712	35.008	22.167	0.000
10	28.709	35.010	22.171	0.057
20	28.703	35.031	22.188	0.113
30	28.651	35.051	22.221	0.169
40	28.607	35.072	22.251	0.225
50	28.568	35.117	22.298	0.281
60	28.563	35.227	22.382	0.336
70	28.573	35.331	22.457	0.391
80	28.558	35.509	22.596	0.444
90	28.118	35.625	22.828	0.496
100	27.685	35.805	23.112	0.545
110	27.015	35.900	23.393	0.592
120	26.178	36.023	23.751	0.636
130	25.542	36.087	23.998	0.677
140	24.936	36.114	24.205	0.716
150	24.080	36.052	24.416	0.752
160	23.447	36.073	24.619	0.787
170	22.872	36.060	24.776	0.820
180	21.981	35.980	24.969	0.851
190	21.459	35.925	25.074	0.881
200	21.065	35.860	25.132	0.910
250	16.922	35.300	25.764	1.041
300	13.465	34.939	26.251	1.144
350	11.276	34.757	26.536	1.230
400	9.791	34.672	26.732	1.304
450	8.456	34.610	26.899	1.370
500	7.645	34.578	26.995	1.429
550	7.109	34.557	27.055	1.485
600	6.556	34.538	27.115	1.538
650	6.228	34.531	27.153	1.589
700	5.919	34.525	27.188	1.638
750	5.642	34.518	27.217	1.686
800	5.384	34.516	27.247	1.733
900	4.802	34.519	27.317	1.821
1000	4.385	34.526	27.368	1.904
1250	3.497	34.554	27.482	2.090

CAST CG2-90-MB -091 DATE 06 APR 90 TIME 0700 GMT
LAT 10 06.1S LONG 169 30.2W

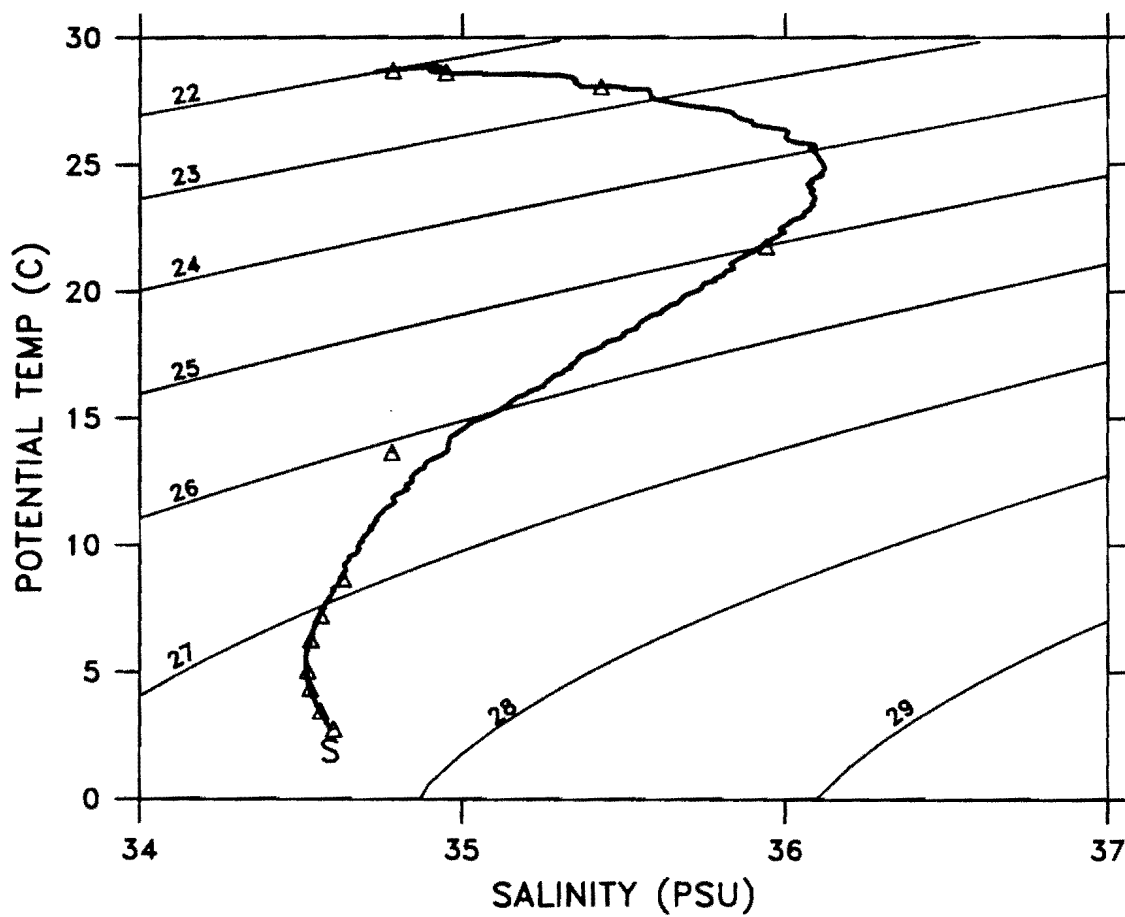


CST CG2-90-MB -091 DATE 06 APR 90 TIME 0700 GMT
 LAT 10 06.1S LONG 169 30.2W WEATHER 2 SEA STATE 0
 BAROMETER 09 WIND DIR 038 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 8 DRY 28.0 WET 26.0 DEPTH 5249 M

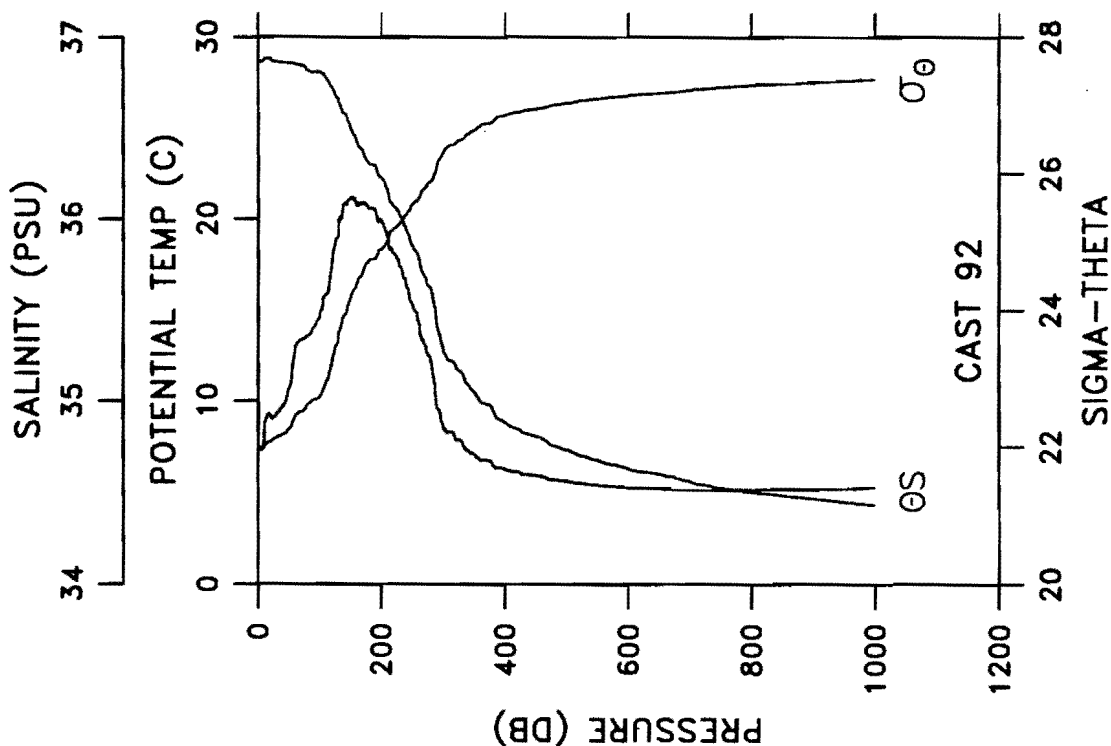


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.860	34.796	21.960	0.000
10	28.826	34.810	21.982	0.058
20	28.764	34.884	22.058	0.116
30	28.725	34.909	22.089	0.174
40	28.692	34.916	22.106	0.231
50	28.672	34.930	22.123	0.289
60	28.663	35.017	22.191	0.346
70	28.652	35.209	22.339	0.401
80	28.493	35.413	22.545	0.456
90	28.288	35.454	22.644	0.509
100	27.791	35.449	22.803	0.560
110	27.425	35.579	23.019	0.611
120	26.888	35.768	23.334	0.658
130	25.924	35.812	23.672	0.702
140	25.354	35.981	23.976	0.743
150	24.473	36.050	24.296	0.781
160	23.826	36.088	24.519	0.817
170	23.380	36.064	24.632	0.851
180	22.348	36.013	24.891	0.883
190	22.102	35.996	24.948	0.914
200	20.829	35.821	25.167	0.944
250	17.242	35.358	25.732	1.076
300	13.688	34.944	26.210	1.183
350	10.504	34.714	26.642	1.266
400	8.667	34.619	26.872	1.334
450	7.831	34.579	26.969	1.394
500	7.297	34.561	27.031	1.451
550	6.665	34.538	27.101	1.504
600	6.153	34.526	27.159	1.555
650	5.990	34.525	27.179	1.604
700	5.635	34.517	27.216	1.651
750	5.398	34.518	27.246	1.698
800	5.089	34.516	27.284	1.743
850	4.590	34.523	27.343	1.827
900	4.197	34.532	27.393	1.907
1000	2.707	34.595	27.588	2.248
1500	2.001	34.643	27.685	2.520
2000	1.872	34.666	27.730	2.761
2500	1.424	34.679	27.758	2.990
3000	1.272	34.687	27.775	3.212
3500	1.102	34.695	27.793	3.430
4000	0.739	34.710	27.830	3.631
4500	0.662	34.711	27.835	3.821
5000	0.655	34.711	27.836	3.939

CAST CG2-90-MB -092 DATE 06 APR 90 TIME 1137 GMT
LAT 10 05.4S LONG 169 59.5W

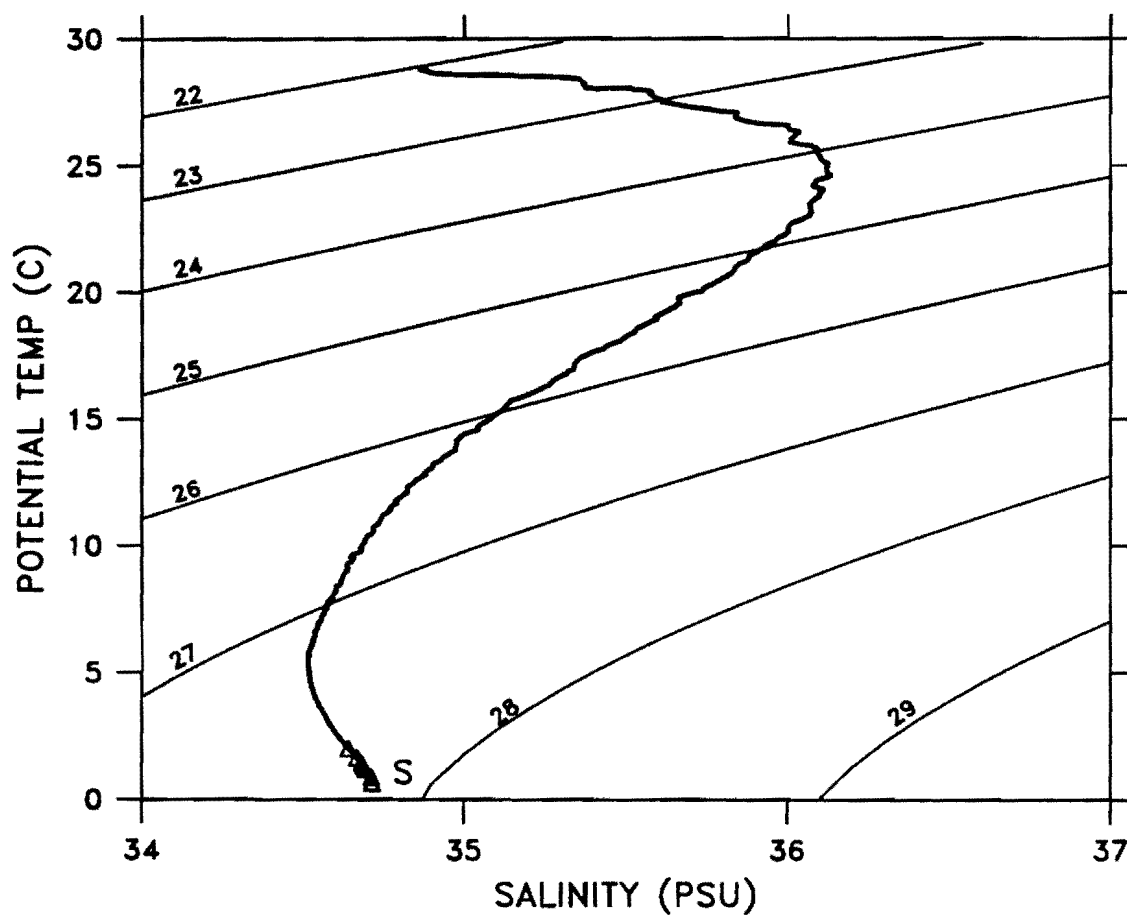


CAST CG2-90-MB -092 DATE 06 APR 90 TIME 1137 GMT
 LAT 10 05.4S LONG 169 59.5W WEATHER 1 SEA STATE 0
 BAROMETER 10 WIND DIR 053 T SPD 06 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 28.0 WET 26.0 DEPTH 5161 M

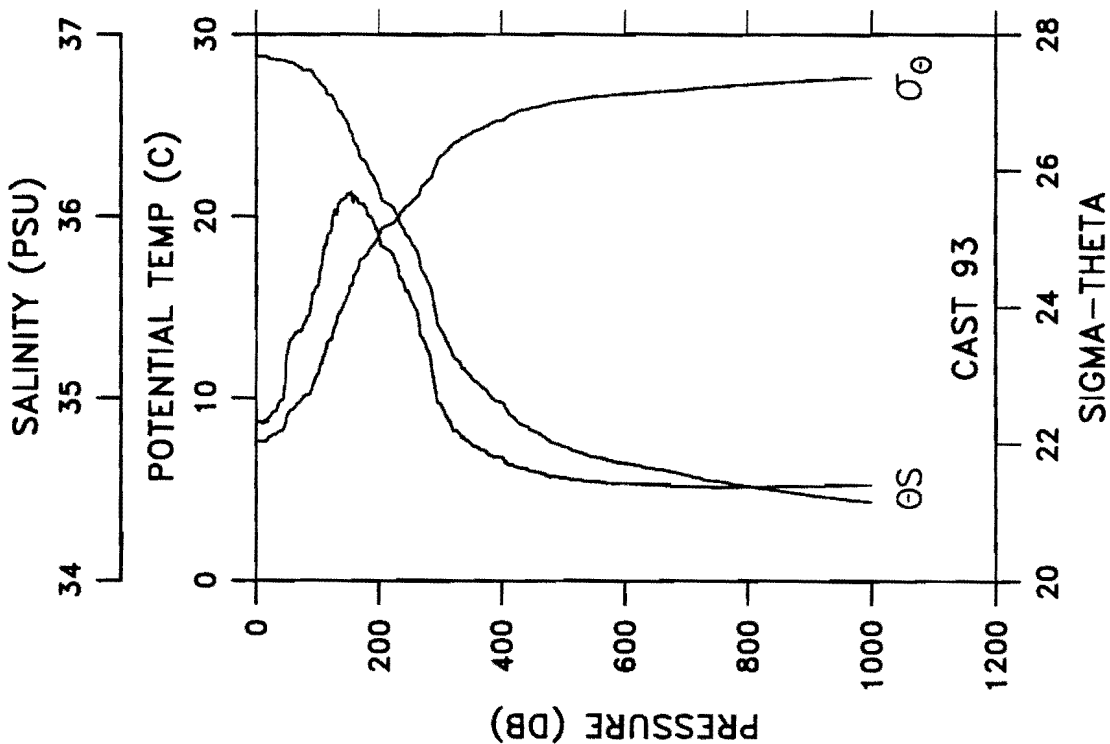


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.628	34.732	21.989	0.000
10	28.732	34.778	21.989	0.058
20	28.800	34.922	22.074	0.116
30	28.633	34.924	22.132	0.173
40	28.598	34.972	22.179	0.230
50	28.570	35.069	22.261	0.286
60	28.519	35.267	22.427	0.341
70	28.431	35.337	22.509	0.395
80	28.158	35.358	22.615	0.449
90	28.057	35.404	22.682	0.501
100	28.072	35.460	22.719	0.553
110	27.772	35.584	22.911	0.604
120	27.214	35.756	23.220	0.652
130	26.549	35.902	23.543	0.698
140	25.789	36.087	23.922	0.739
150	25.071	36.115	24.164	0.779
160	24.288	36.084	24.378	0.816
170	23.710	36.092	24.556	0.851
180	23.016	36.055	24.731	0.884
190	22.937	36.053	24.752	0.917
200	22.311	35.992	24.886	0.949
250	18.543	35.538	25.550	1.091
300	12.942	34.862	26.298	1.201
350	10.550	34.710	26.630	1.282
400	8.825	34.630	26.857	1.351
450	8.083	34.597	26.945	1.412
500	7.338	34.565	27.029	1.469
550	6.768	34.541	27.089	1.523
600	6.298	34.526	27.140	1.574
650	6.028	34.525	27.174	1.623
700	5.628	34.516	27.217	1.671
750	5.275	34.516	27.259	1.717
800	5.031	34.517	27.289	1.761
900	4.689	34.520	27.330	1.847
1000	4.345	34.528	27.374	1.928
1500	2.764	34.591	27.580	2.277
1500	2.764	34.591	27.580	2.277

CAST CG2-90-MB -093 DATE 06 APR 90 TIME 1546 GMT
LAT 10 05.5S LONG 170 00.0W

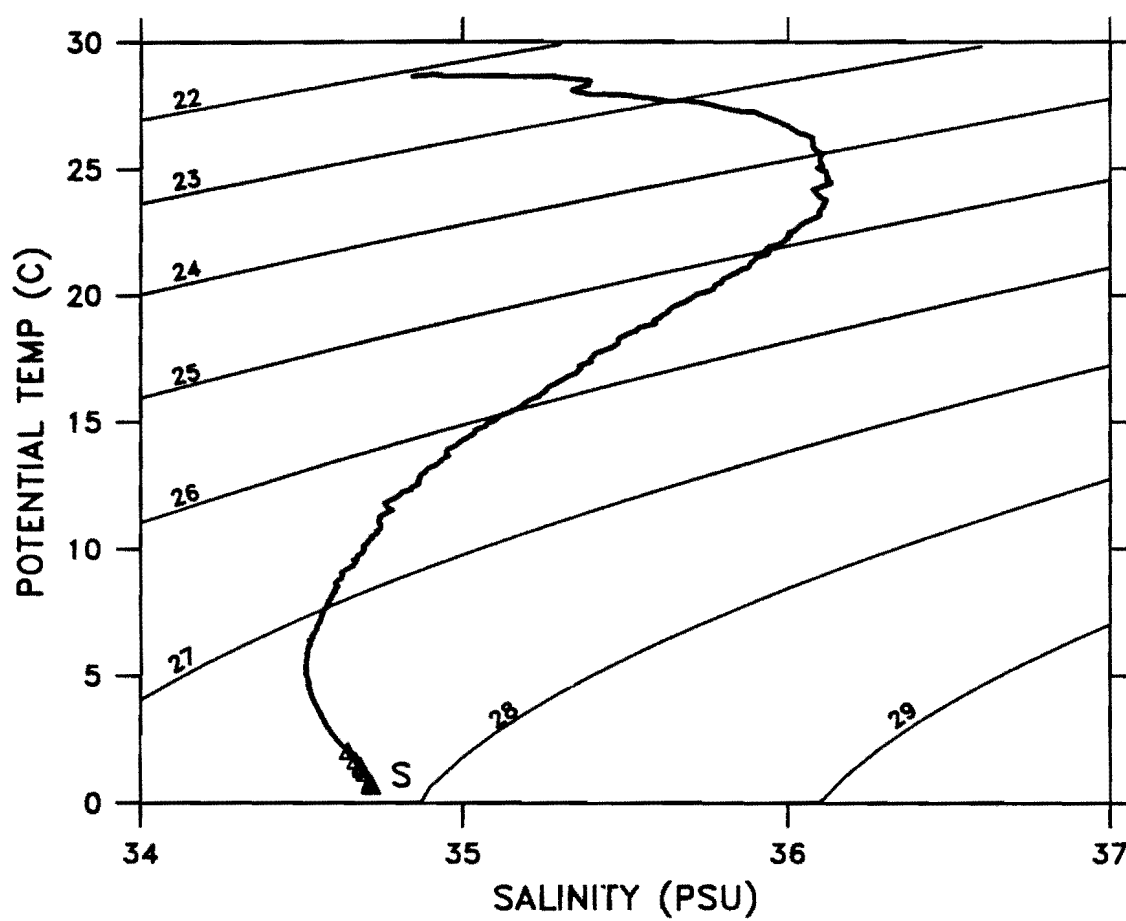


CAST 002-90-MB -093 DATE 06 APR 90 TIME 1546 GMT
 LAT 10 05.55 LONG 170 00.00 WEATHER 1 SEA STATE 2
 BAROMETER 07 WIND DIR 060 T SPD 08 KT VISIBILITY 7
 CLOUD 2 AMOUNT 3 DRY 27.2 WET 28.0 DEPTH 5163 M

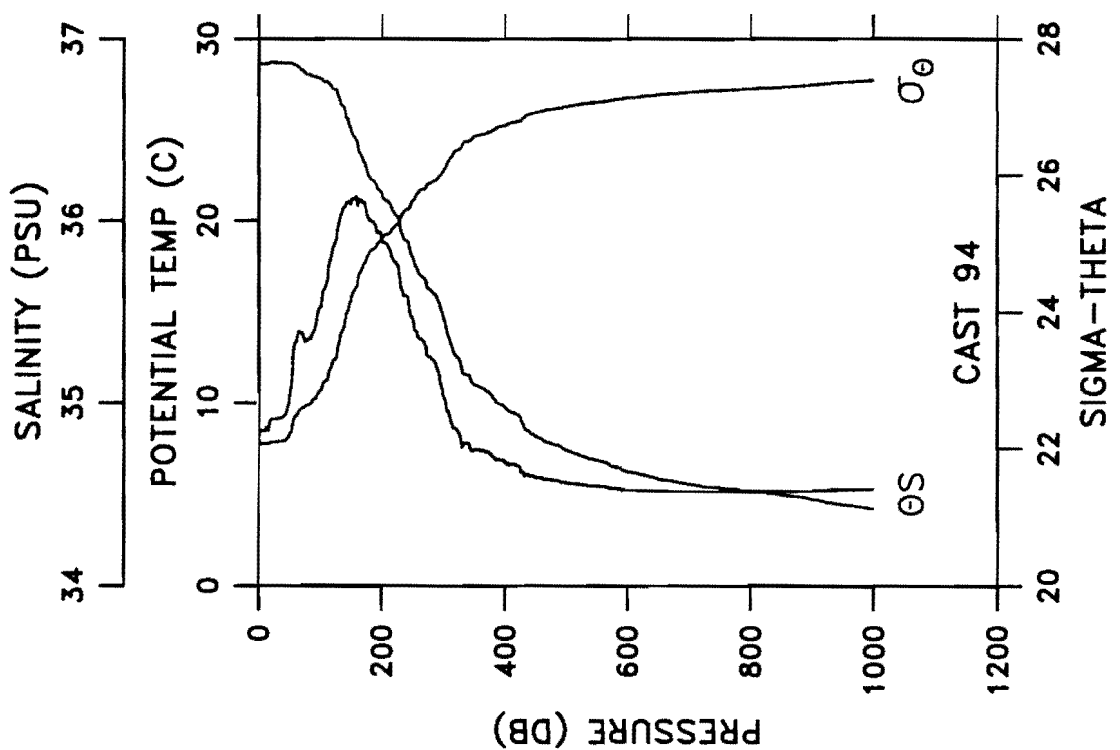


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.797	34.869	22.035	0.000
10	28.791	34.863	22.033	0.058
20	28.673	34.895	22.096	0.116
30	28.624	34.926	22.136	0.173
40	28.593	34.986	22.191	0.229
50	28.517	35.228	22.399	0.285
60	28.443	35.331	22.500	0.339
70	28.225	35.371	22.602	0.392
80	28.025	35.419	22.704	0.445
90	28.007	35.516	22.782	0.496
100	27.493	35.612	23.022	0.546
110	27.122	35.815	23.295	0.593
120	26.659	35.909	23.514	0.638
130	26.159	36.018	23.754	0.682
140	25.647	36.091	23.969	0.722
150	24.995	36.123	24.194	0.761
160	24.031	36.109	24.473	0.798
170	23.175	36.072	24.698	0.832
180	22.867	36.038	24.761	0.865
190	22.245	35.983	24.897	0.897
200	21.459	35.880	25.039	0.927
250	18.796	35.564	25.506	1.066
300	13.795	34.974	26.210	1.179
350	11.243	34.749	26.536	1.265
400	9.759	34.676	26.740	1.338
450	8.233	34.599	26.925	1.402
500	7.367	34.565	27.025	1.460
550	6.792	34.544	27.088	1.514
600	6.446	34.536	27.128	1.566
650	6.125	34.527	27.163	1.616
700	5.807	34.519	27.197	1.665
750	5.466	34.516	27.236	1.711
800	5.184	34.515	27.269	1.757
900	4.692	34.521	27.331	1.844
1000	4.338	34.528	27.375	1.925
1500	2.835	34.588	27.571	2.274
2000	1.996	34.643	27.686	2.549
2500	1.631	34.688	27.734	2.789
3000	1.427	34.679	27.758	3.017
3500	1.278	34.687	27.775	3.240
4000	1.053	34.703	27.803	3.458
4500	0.710	34.713	27.834	3.654
5000	0.648	34.712	27.837	3.842
5230	0.648	34.711	27.836	3.931

CAST CG2-90-MB -094 DATE 06 APR 90 TIME 2053 GMT
LAT 10 05.3S LONG 170 14.9W

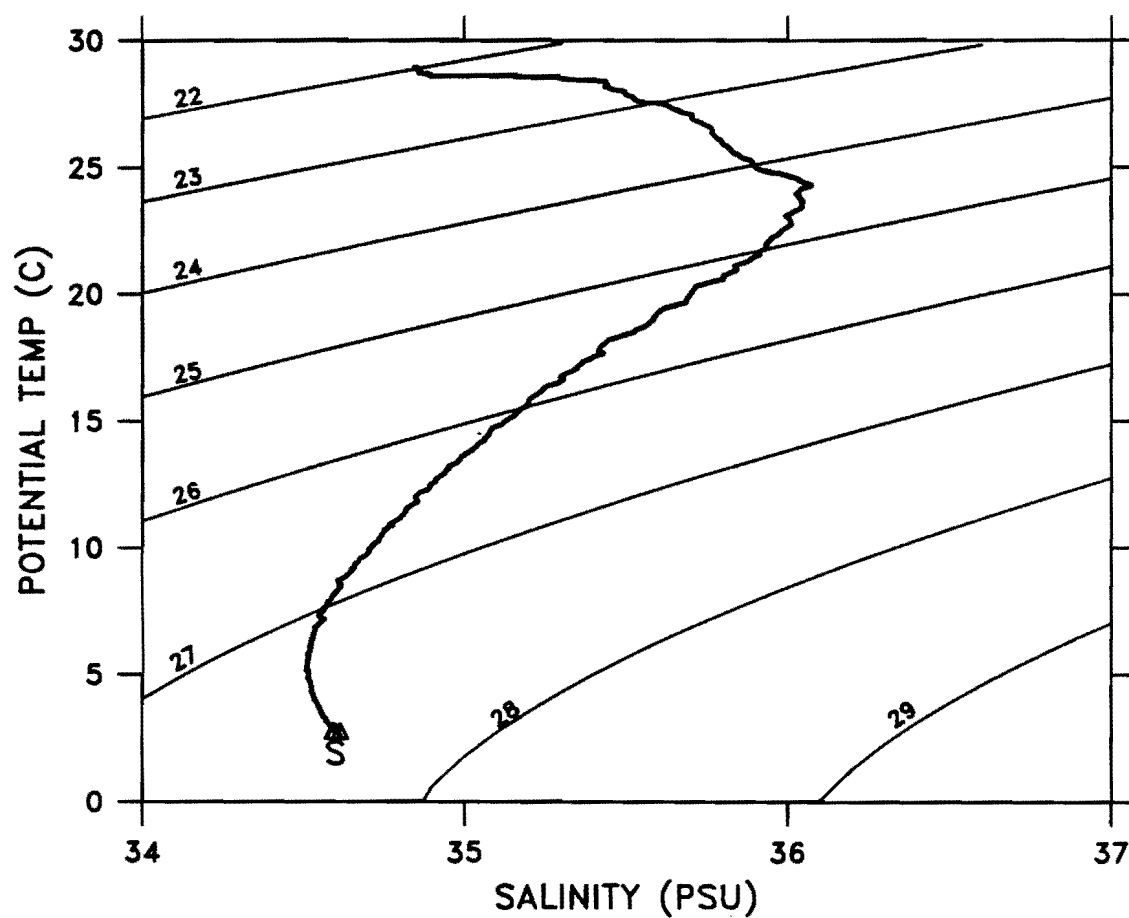


CAST CG2-90-MB -094 DATE 06 APR 90 TIME 2053 GMT
 LAT 10 05.3S LONG 170 14.9W WEATHER 1 SEA STATE 2
 BAROMETER 09 WIND DIR 056 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 29.0 WET 26.6 DEPTH 5929 M

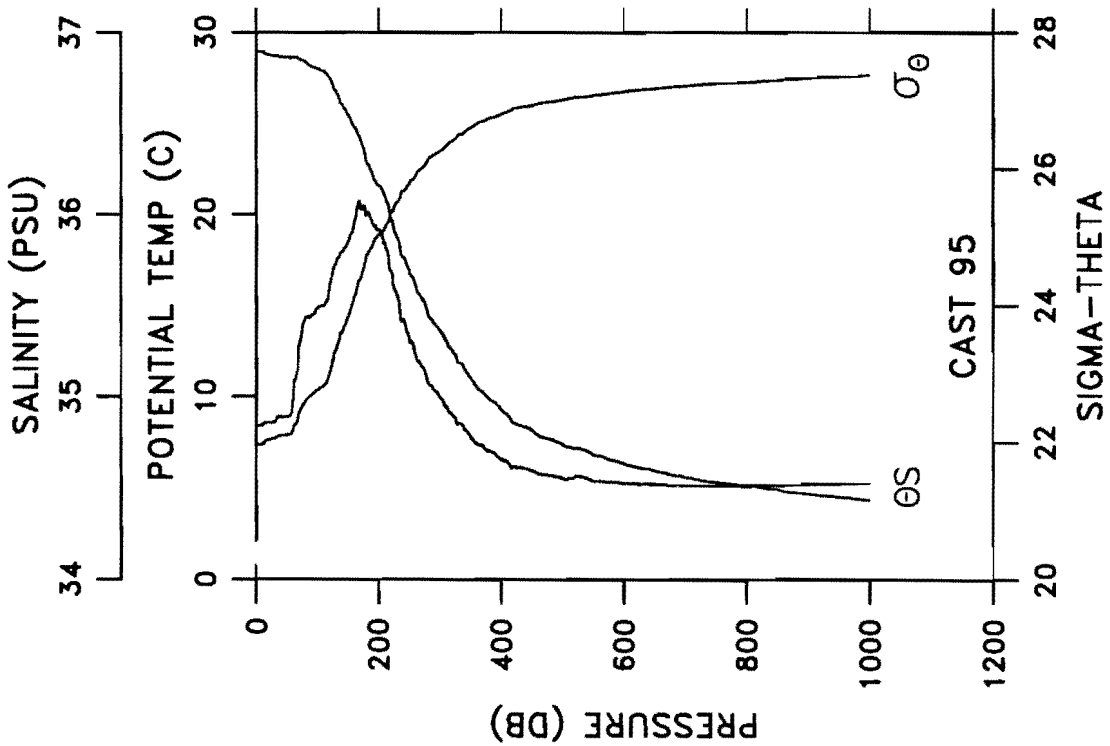


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.638	34.847	22.072	0.000
10	28.633	34.845	22.073	0.057
20	28.721	34.910	22.092	0.115
30	28.706	34.912	22.098	0.172
40	28.685	34.923	22.114	0.230
50	28.669	35.037	22.205	0.286
60	28.539	35.330	22.468	0.342
70	28.291	35.385	22.591	0.395
80	28.059	35.348	22.639	0.447
90	27.919	35.395	22.721	0.500
100	27.837	35.525	22.845	0.551
110	27.674	35.657	22.997	0.600
120	27.275	35.839	23.263	0.648
130	26.775	35.980	23.530	0.694
140	26.002	36.077	23.847	0.736
150	25.039	36.089	24.154	0.776
160	24.414	36.127	24.373	0.813
170	23.310	36.095	24.676	0.847
180	22.396	36.009	24.874	0.880
190	22.071	35.975	24.940	0.911
200	21.507	35.902	25.043	0.941
250	18.042	35.466	25.620	1.078
300	14.708	35.035	26.064	1.190
350	11.000	34.745	26.577	1.276
400	9.797	34.677	26.735	1.350
450	8.178	34.592	26.927	1.414
500	7.424	34.565	27.017	1.472
550	6.877	34.547	27.079	1.527
600	6.252	34.525	27.145	1.578
650	5.846	34.517	27.191	1.628
700	5.565	34.515	27.224	1.675
750	5.373	34.513	27.246	1.721
800	5.157	34.515	27.273	1.766
900	4.730	34.521	27.327	1.853
1000	4.230	34.531	27.389	1.934
1500	2.632	34.599	27.598	2.272
2000	2.007	34.643	27.686	2.541
2500	1.657	34.665	27.730	2.783
3000	1.441	34.678	27.756	3.013
3500	1.261	34.688	27.776	3.235
4000	1.029	34.703	27.805	3.452
4500	0.733	34.713	27.832	3.644
5000	0.660	34.712	27.835	3.834
5111	0.660	34.712	27.836	3.876

CAST CG2-90-MB -095 DATE 07 APR 90 TIME 0238 GMT
LAT 09 29.5S LONG 170 12.8W

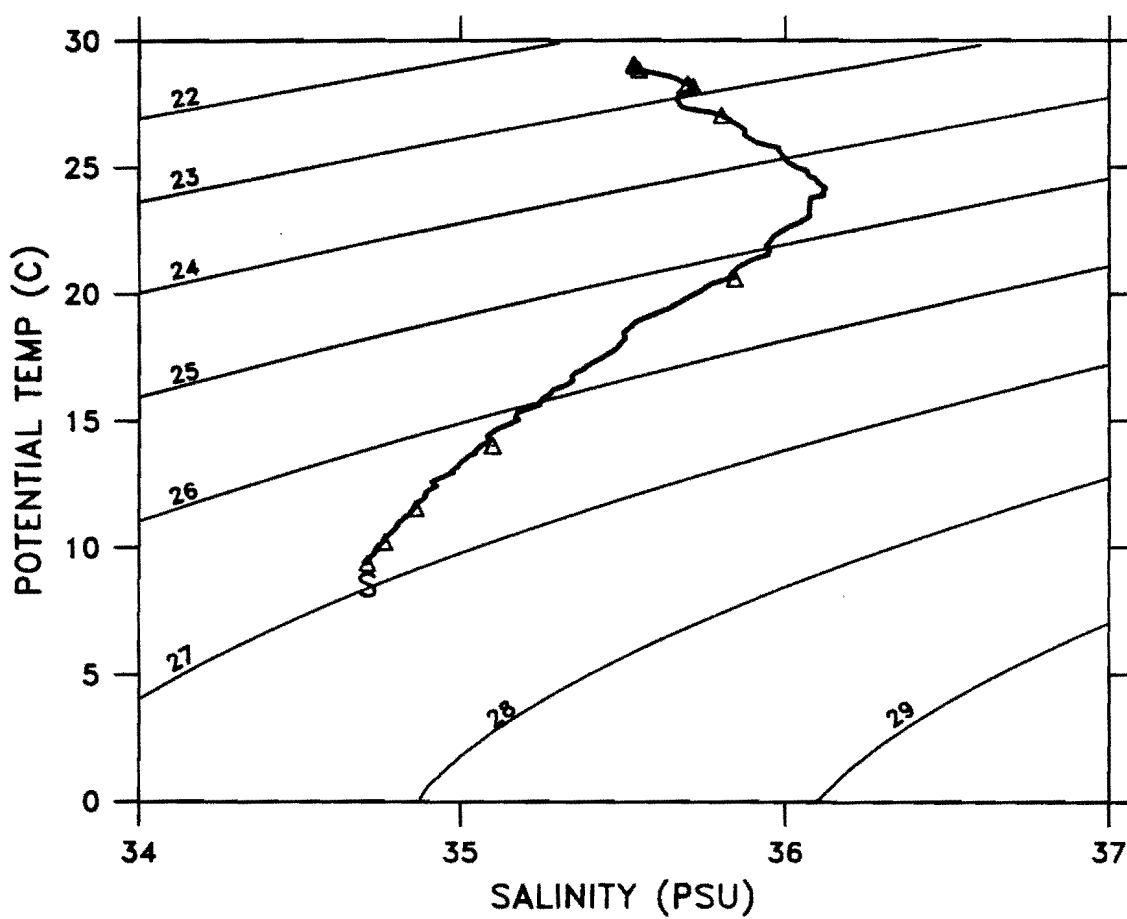


CAST 002-90-MB -095 DATE 07 APR 90 TIME 0238 GMT
 LAT 09 29.5S LONG 170 12.8W WEATHER 1 SEA STATE 2
 BAROMETER 06 WIND DIR 075 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 3 DRY 28.8 WET 26.2 DEPTH 4515 M

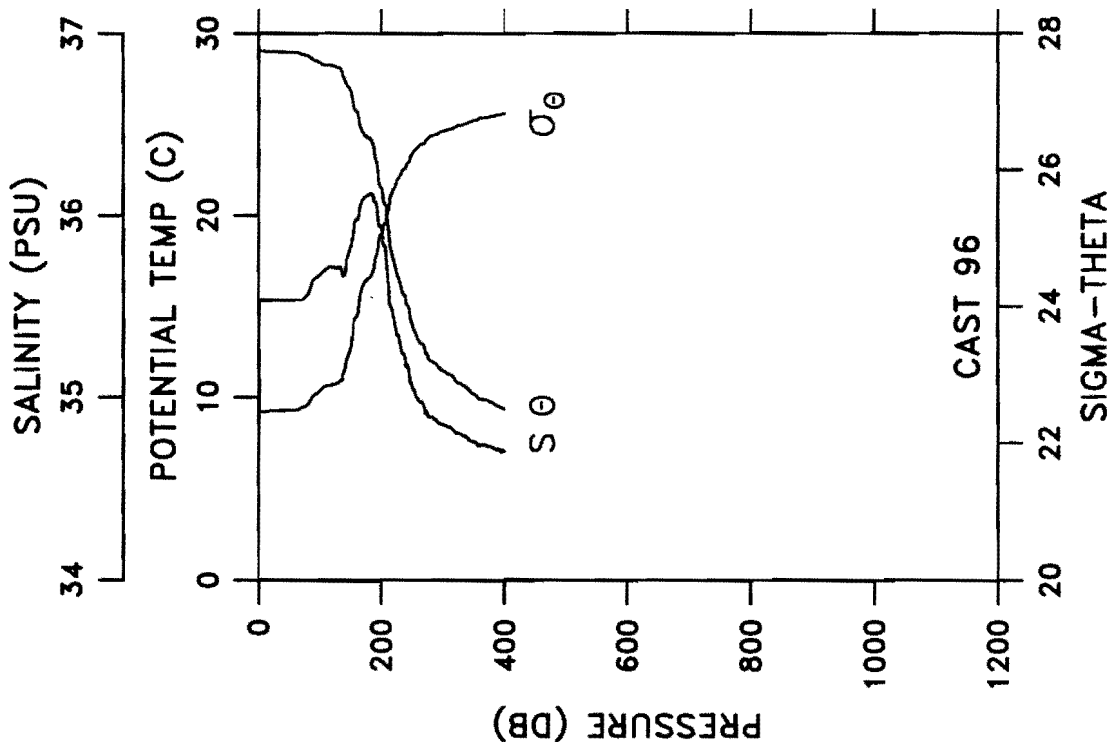


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.950	34.843	21.965	0.000
10	28.913	34.847	21.981	0.058
20	28.769	34.859	22.037	0.117
30	28.702	34.862	22.062	0.174
40	28.657	34.889	22.097	0.232
50	28.623	34.891	22.110	0.289
60	28.618	34.985	22.182	0.346
70	28.549	35.289	22.434	0.402
80	28.382	35.438	22.600	0.455
90	28.119	35.448	22.694	0.508
100	28.010	35.488	22.760	0.559
110	27.853	35.499	22.820	0.610
120	27.508	35.609	23.015	0.660
130	26.786	35.727	23.336	0.708
140	26.072	35.794	23.612	0.752
150	25.488	35.860	23.836	0.794
160	24.797	35.946	24.120	0.834
170	24.149	36.041	24.387	0.872
180	22.926	36.008	24.721	0.906
190	22.238	35.949	24.873	0.939
200	21.577	35.913	25.031	0.969
250	16.915	35.318	25.780	1.102
300	13.626	34.992	26.259	1.203
350	11.017	34.778	26.600	1.287
400	9.267	34.659	26.809	1.357
450	8.165	34.597	26.933	1.419
500	7.414	34.557	27.012	1.477
550	6.835	34.537	27.077	1.531
600	6.346	34.525	27.133	1.583
650	5.978	34.523	27.179	1.633
700	5.622	34.517	27.218	1.681
750	5.351	34.514	27.249	1.727
800	5.161	34.515	27.272	1.772
900	4.716	34.524	27.330	1.858
1000	4.360	34.528	27.373	1.940
1499	2.777	34.598	27.584	2.284

CAST CG2-90-MB -096 DATE 07 APR 90 TIME 2307 GMT
LAT 05 00.1S LONG 170 00.8W

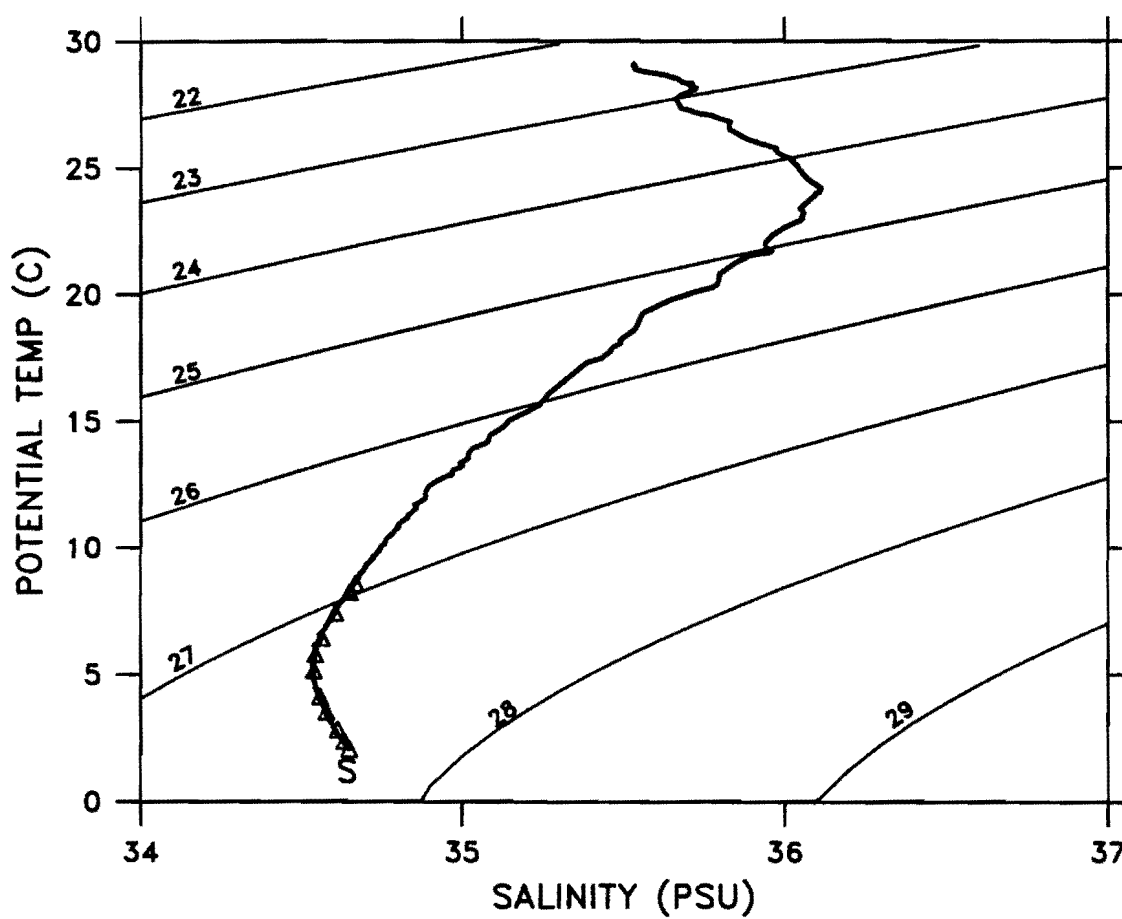


CAST 96-90-MB -096 DATE 07 APR 90 TIME 2307 GMT
 LAT 05 00.15 LONG 170 00.8W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 064 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 30.0 WET 27.0 DEPTH 5413 M

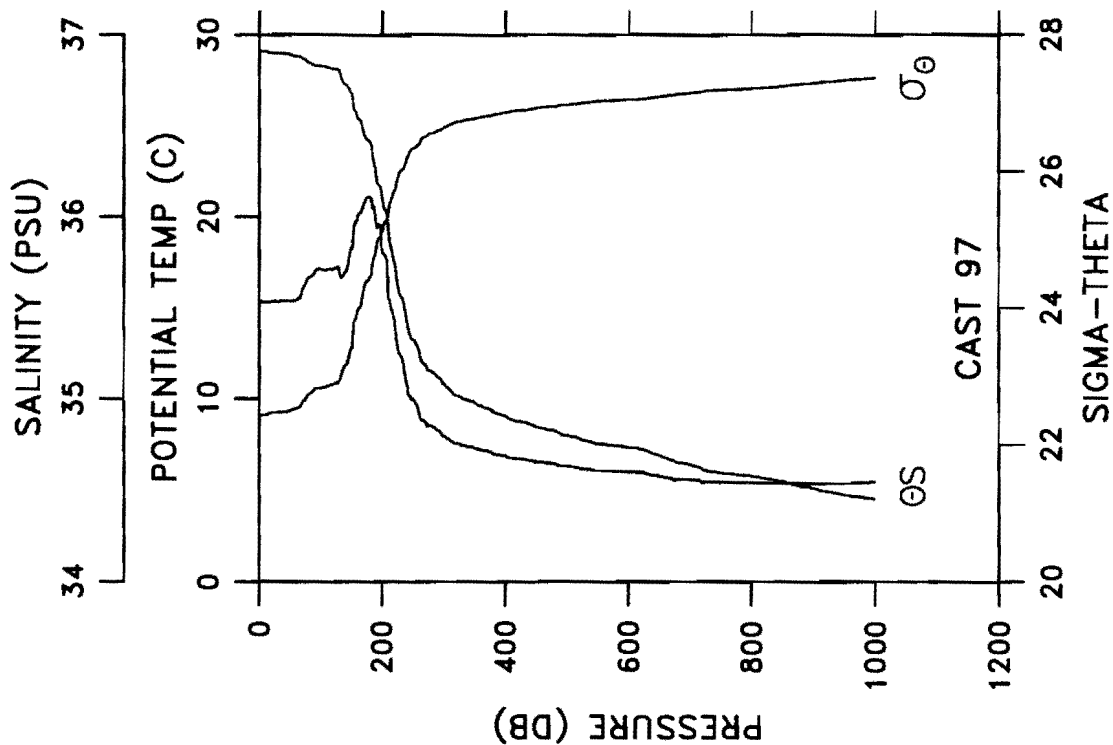


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.050	35.533	22.450	0.000
10	29.035	35.531	22.453	0.054
20	29.001	35.534	22.467	0.108
30	28.993	35.535	22.470	0.161
40	28.984	35.535	22.473	0.215
50	28.978	35.535	22.475	0.269
60	28.970	35.535	22.478	0.323
70	28.862	35.537	22.516	0.376
80	28.792	35.566	22.561	0.430
90	28.538	35.650	22.708	0.482
100	28.388	35.676	22.777	0.534
110	28.271	35.706	22.839	0.585
120	28.242	35.713	22.853	0.635
130	28.141	35.719	22.891	0.686
140	27.452	35.673	23.081	0.735
150	26.825	35.830	23.401	0.782
160	25.736	35.980	23.857	0.825
170	24.560	36.091	24.301	0.864
180	24.244	36.117	24.416	0.900
190	23.183	36.072	24.696	0.935
200	21.539	35.943	25.065	0.966
250	14.058	35.065	26.226	1.083
300	11.493	34.852	26.570	1.166
350	10.197	34.756	26.728	1.239
400	9.358	34.706	26.830	1.306
400	9.358	34.706	26.830	1.306

CAST CG2-90-MB -097 DATE 08 APR 90 TIME 0139 GMT
LAT 05 01.5S LONG 170 03.7W

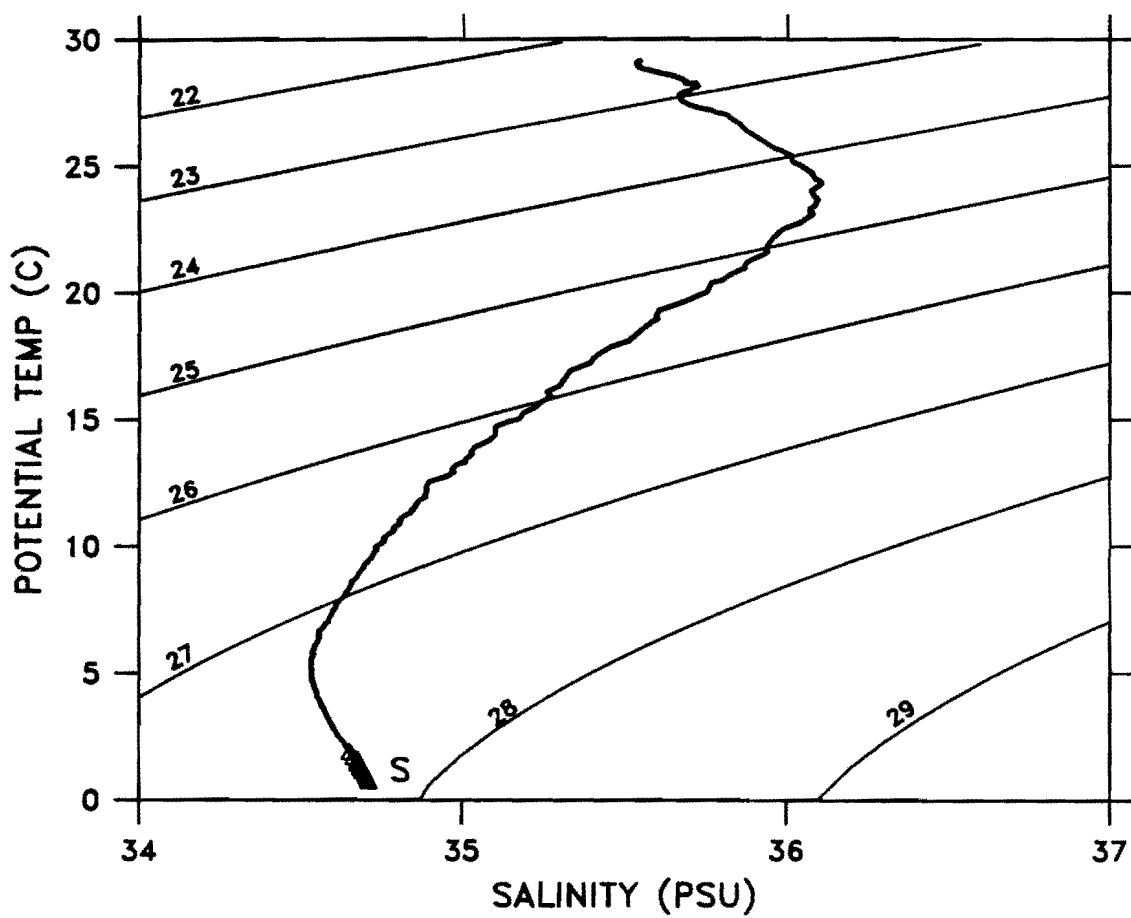


CAST CG2-90-MB -097 DATE 08 APR 90 TIME 0139 GMT
 LAT 05 01.5S LONG 170 03.7W WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 093 T SPD 19 KT VISIBILITY 8
 CLOUD 9 AMOUNT 7 DRY 29.0 WET 27.5 DEPTH 5436 M

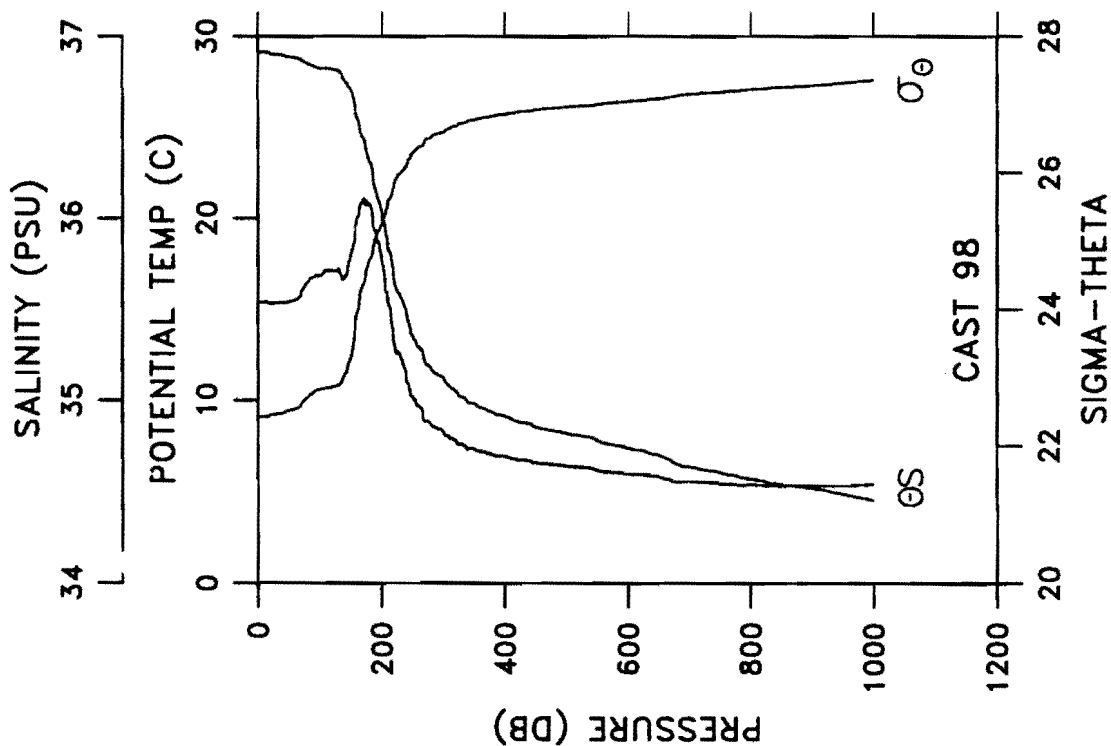


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.112	35.534	22.430	0.000
10	29.108	35.534	22.431	0.054
20	29.010	35.534	22.465	0.108
30	28.995	35.537	22.471	0.162
40	28.981	35.539	22.477	0.215
50	28.922	35.539	22.497	0.269
60	28.842	35.545	22.529	0.323
70	28.711	35.599	22.613	0.376
80	28.496	35.667	22.735	0.428
90	28.330	35.695	22.811	0.479
100	28.315	35.715	22.831	0.530
110	28.236	35.708	22.852	0.580
120	28.152	35.711	22.882	0.631
130	28.001	35.707	22.928	0.681
140	27.279	35.696	23.155	0.730
150	26.811	35.833	23.408	0.776
160	25.461	35.997	23.955	0.819
170	24.638	36.065	24.258	0.858
180	24.102	36.107	24.451	0.894
190	22.339	35.961	24.854	0.928
200	21.037	35.822	25.111	0.958
250	13.247	35.001	26.344	1.070
300	10.799	34.800	26.657	1.149
350	9.770	34.730	26.781	1.218
400	9.053	34.687	26.865	1.283
450	8.450	34.656	26.935	1.344
500	8.014	34.632	26.983	1.403
550	7.543	34.608	27.033	1.460
600	7.340	34.600	27.056	1.516
650	6.904	34.575	27.098	1.570
700	6.386	34.559	27.154	1.622
750	5.947	34.542	27.198	1.671
800	5.759	34.538	27.218	1.719
900	5.078	34.536	27.299	1.811
1000	4.472	34.542	27.371	1.894
1500	2.789	34.605	27.589	2.236
1998	2.067	34.645	27.682	2.507

CAST CG2-90-MB -098 DATE 08 APR 90 TIME 0526 GMT
LAT 05 00.8S LONG 170 01.2W

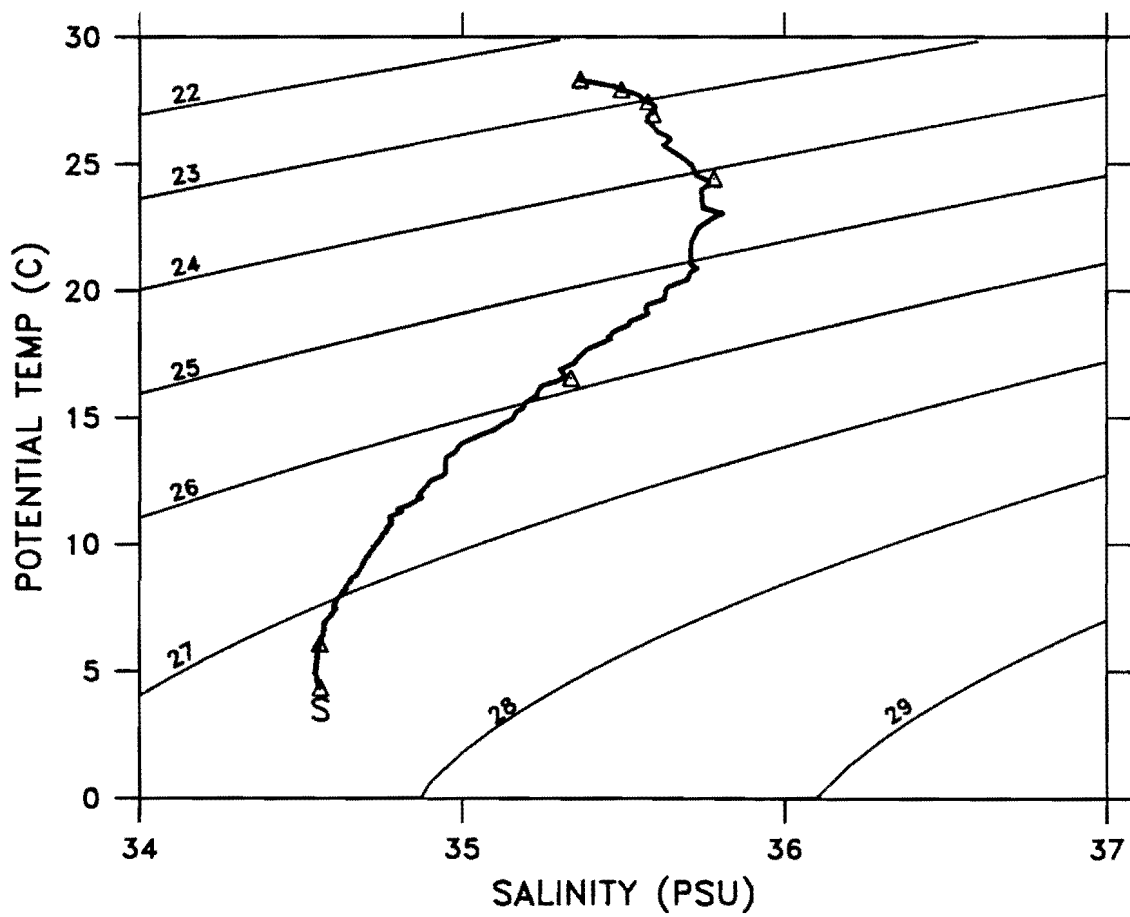


CAST CG2-90-MB -098 DATE 08 APR 90 TIME 0526 GMT
 LAT 05 00.8S LONG 170 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 05 WIND DIR 080 T SPD 18 KT VISIBILITY 7
 CLOUD 2 AMOUNT 3 DRY 29.5 WET 27.0 DEPTH 5280 M

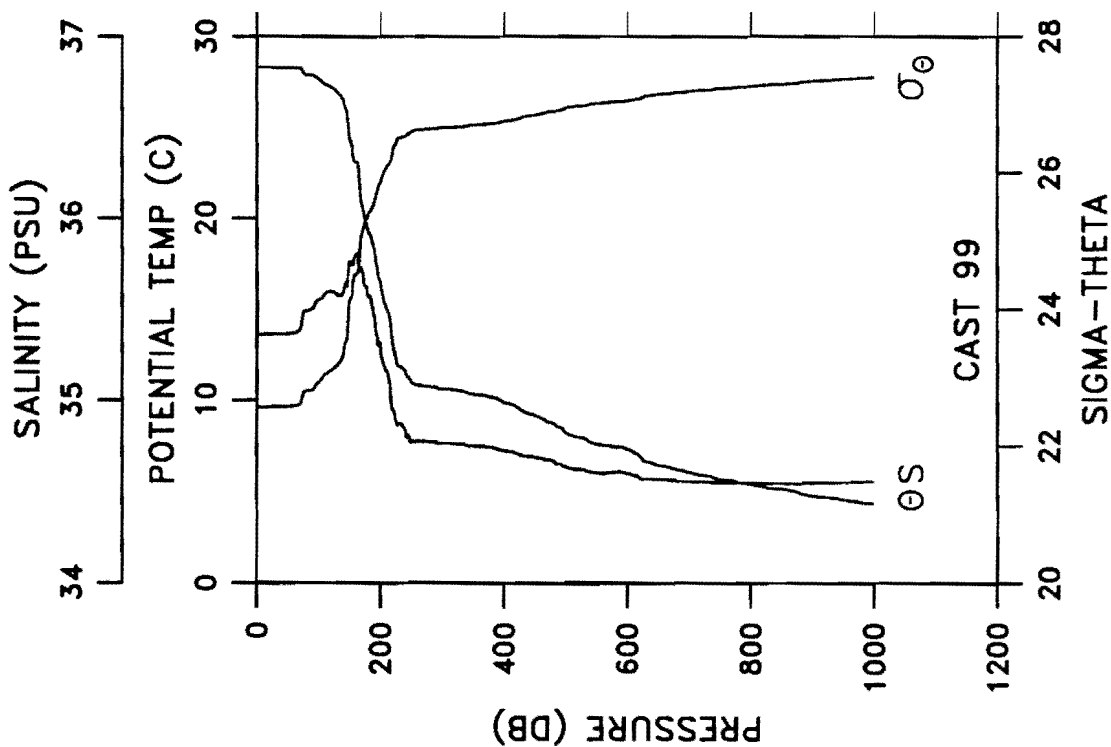


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.138	35.539	22.425	0.000
10	28.142	35.539	22.424	0.054
20	29.051	35.531	22.448	0.108
30	29.013	35.535	22.464	0.162
40	28.976	35.538	22.479	0.216
50	28.871	35.542	22.517	0.269
60	28.827	35.550	22.537	0.323
70	28.746	35.577	22.585	0.376
80	28.530	35.649	22.710	0.428
90	28.379	35.676	22.781	0.479
100	28.243	35.685	22.832	0.530
110	28.260	35.715	22.849	0.581
120	28.208	35.713	22.865	0.631
130	28.148	35.724	22.893	0.682
140	27.536	35.671	23.053	0.731
150	27.066	35.786	23.299	0.779
160	25.492	35.998	23.947	0.823
170	24.388	36.105	24.364	0.861
180	23.126	36.081	24.719	0.895
190	21.575	35.935	25.049	0.927
200	20.409	35.765	25.238	0.956
250	13.527	35.016	26.298	1.066
300	11.279	34.832	26.594	1.147
350	9.835	34.736	26.774	1.217
400	9.130	34.695	26.858	1.282
450	8.538	34.660	26.925	1.344
500	8.180	34.642	26.966	1.404
550	7.802	34.618	27.004	1.462
600	7.390	34.598	27.048	1.518
650	7.007	34.583	27.089	1.573
700	6.374	34.559	27.156	1.624
750	6.071	34.543	27.182	1.674
800	5.724	34.540	27.224	1.722
900	5.203	34.533	27.282	1.814
1000	4.535	34.542	27.365	1.900
1500	2.844	34.602	27.581	2.244
2000	2.099	34.643	27.678	2.519
2500	1.721	34.661	27.722	2.766
3000	1.454	34.677	27.755	2.998
3500	1.265	34.686	27.775	3.221
4000	1.083	34.695	27.795	3.439
4500	0.906	34.703	27.813	3.649
5000	0.773	34.709	27.826	3.852
5481	0.761	34.709	27.827	4.053

CAST CG2-90-MB -099 DATE 08 APR 90 TIME 2116 GMT
LAT 02 00.3S LONG 170 00.4W

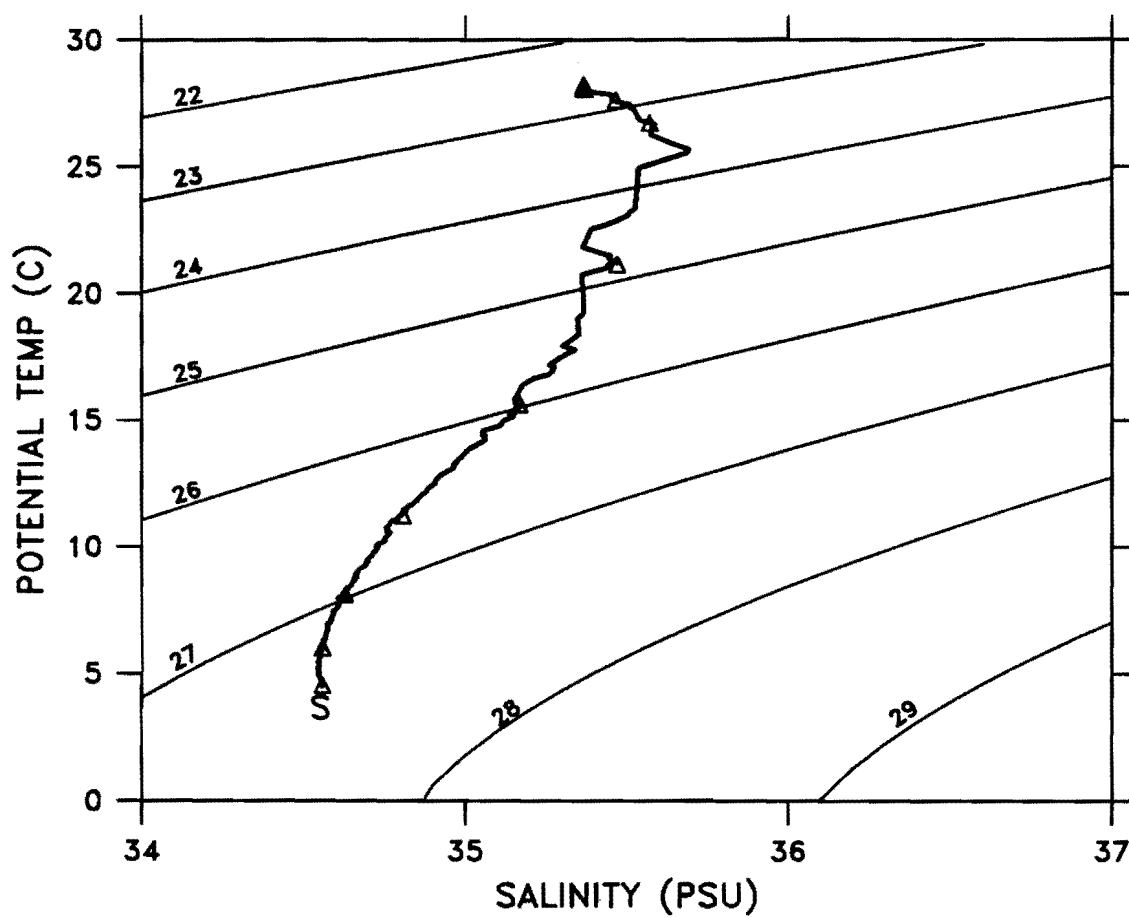


CAST CG2-90-MB -099 DATE 08 APR 90 TIME 2116 GMT
 LAT 02 00.3S LONG 170 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 066 T SPD 21 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 30.0 WET 26.5 DEPTH 5214 M

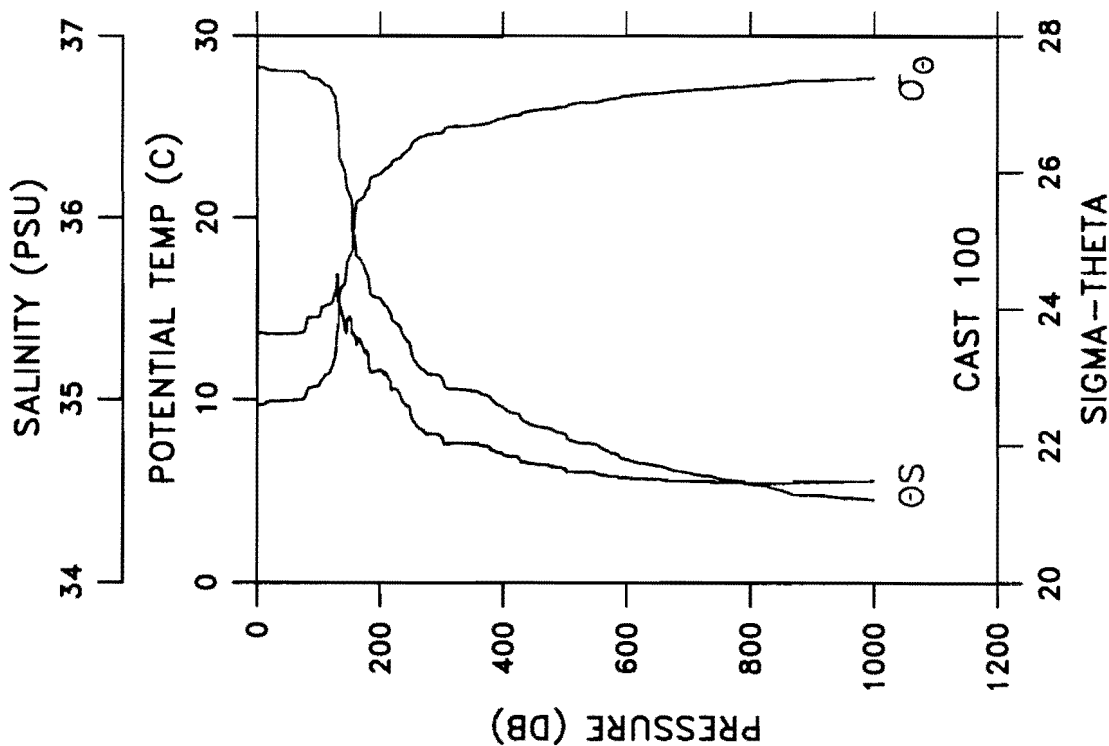


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.322	35.362	22.563	0.000
10	28.328	35.362	22.562	0.053
20	28.307	35.363	22.569	0.106
30	28.300	35.364	22.572	0.158
40	28.299	35.364	22.573	0.211
50	28.296	35.366	22.575	0.264
60	28.289	35.370	22.580	0.317
70	28.246	35.391	22.610	0.370
80	27.894	35.492	22.802	0.421
90	27.869	35.504	22.819	0.472
100	27.634	35.553	22.932	0.522
110	27.351	35.588	23.050	0.571
120	27.205	35.600	23.106	0.620
130	26.929	35.583	23.182	0.667
140	26.466	35.592	23.335	0.714
150	24.335	35.764	24.122	0.757
160	23.090	35.800	24.516	0.794
170	20.725	35.707	25.108	0.826
180	19.286	35.568	25.383	0.854
190	18.177	35.452	25.576	0.880
200	16.458	35.293	25.868	0.903
250	10.970	34.779	26.610	0.990
300	10.612	34.768	26.664	1.063
350	10.324	34.752	26.703	1.134
400	9.856	34.725	26.762	1.204
450	9.189	34.688	26.844	1.271
500	8.263	34.639	26.951	1.333
550	7.616	34.604	27.020	1.391
600	7.332	34.599	27.057	1.447
650	6.456	34.568	27.152	1.499
700	6.074	34.558	27.194	1.549
750	5.679	34.551	27.238	1.596
800	5.411	34.548	27.269	1.642
900	4.767	34.548	27.344	1.728
998	4.344	34.556	27.397	1.807

CAST CG2-90-MB -100 DATE 09 APR 90 TIME 0244 GMT
LAT 00 59.7S LONG 170 01.2W

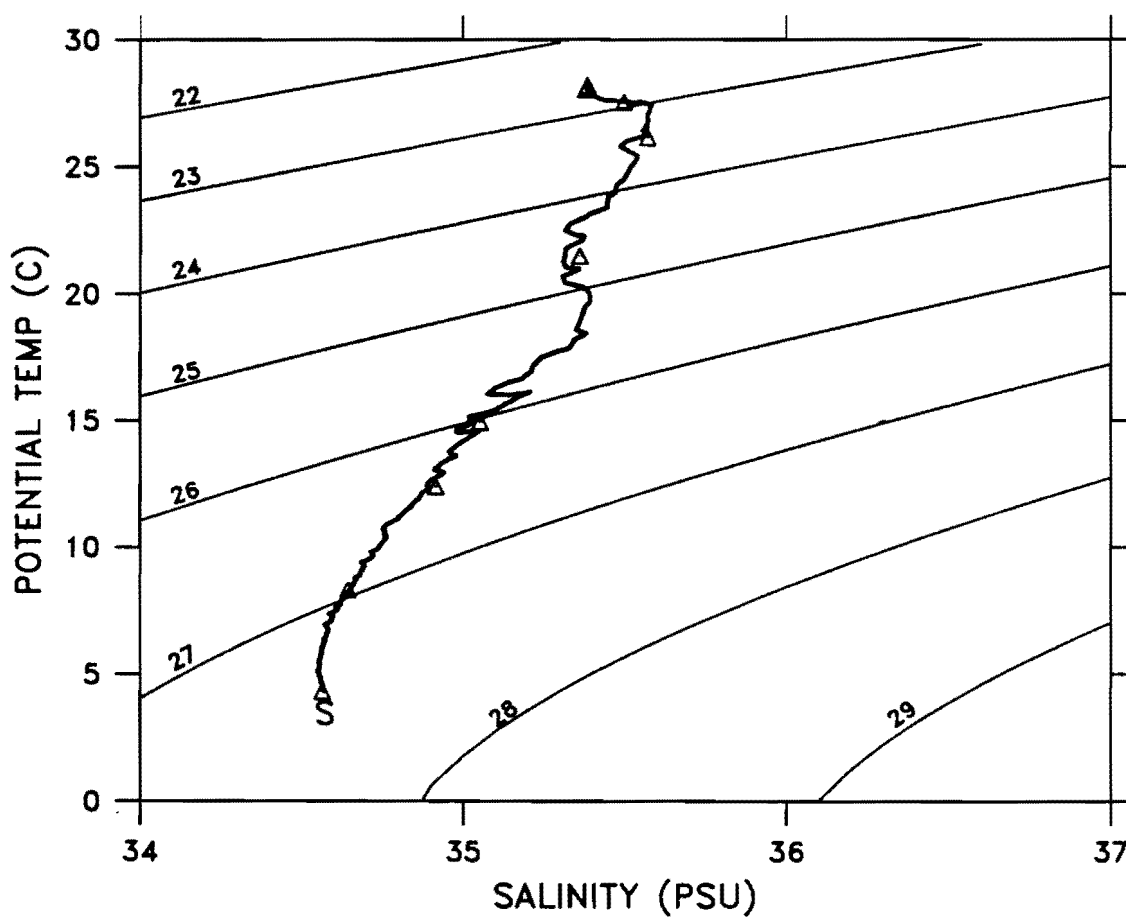


CST CG2-90-MB -100 DATE 09 APR 90 TIME 0244 GMT
 LAT 00 59.7S LONG 170 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 04 WIND DIR 080 T SPD 18 KT VISIBILITY 7
 CLOUD 1 AMOUNT 3 DRY 29.5 WET 26.5 DEPTH 5435 M

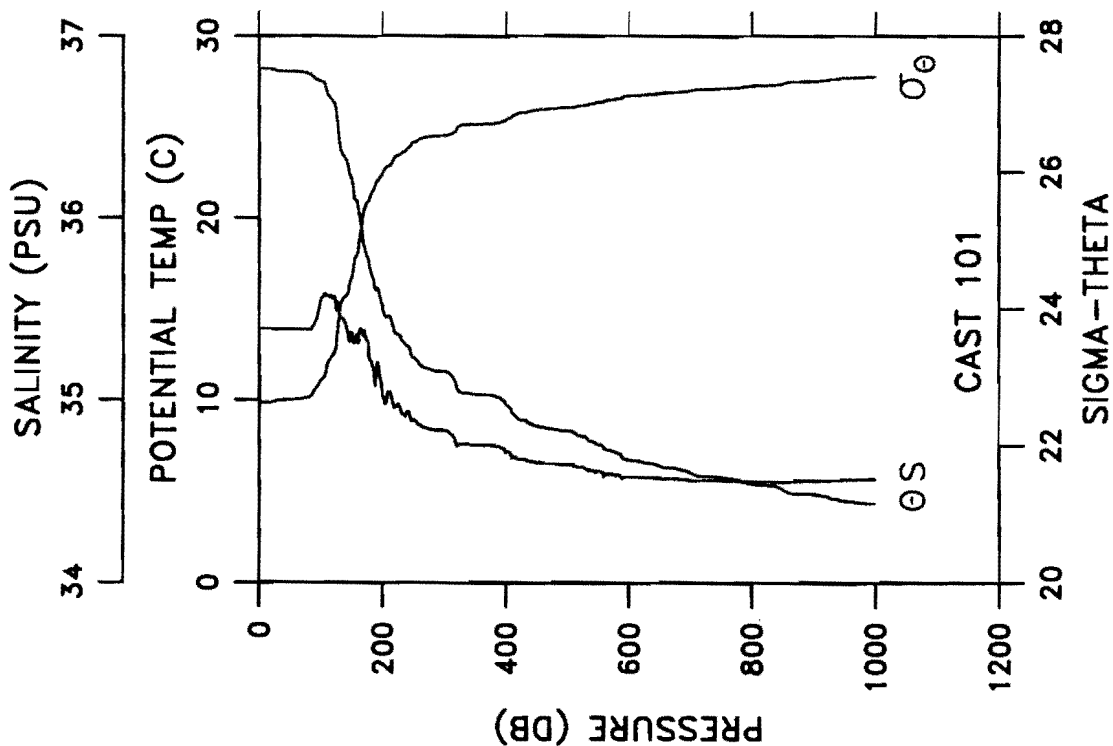


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	28.251	35.369	22.592	0.000
10	28.245	35.367	22.593	0.052
20	28.096	35.364	22.639	0.105
30	28.084	35.364	22.643	0.157
40	28.073	35.365	22.647	0.209
50	28.062	35.365	22.651	0.261
60	28.051	35.366	22.655	0.313
70	28.032	35.369	22.664	0.365
80	27.878	35.415	22.749	0.417
90	27.664	35.455	22.849	0.468
100	27.594	35.456	22.872	0.518
110	27.287	35.515	23.016	0.568
120	27.045	35.530	23.105	0.616
130	25.669	35.692	23.660	0.663
140	22.782	35.450	24.340	0.701
150	21.260	35.461	24.775	0.736
160	18.392	35.351	25.445	0.766
170	17.562	35.306	25.615	0.790
180	16.810	35.258	25.758	0.814
190	15.664	35.153	25.943	0.836
200	15.570	35.166	25.974	0.857
250	12.856	34.924	26.363	0.952
300	11.221	34.792	26.574	1.030
350	10.485	34.761	26.681	1.103
400	9.590	34.703	26.790	1.172
450	8.614	34.652	26.907	1.236
500	8.136	34.625	26.959	1.297
550	7.566	34.600	27.024	1.353
600	6.758	34.575	27.117	1.407
650	6.395	34.565	27.158	1.458
700	6.010	34.556	27.201	1.507
750	5.691	34.549	27.235	1.554
800	5.387	34.546	27.270	1.600
900	4.797	34.551	27.343	1.686
1000	4.523	34.555	27.376	1.767
1001	4.519	34.553	27.375	1.768

CAST CG2-90-MB -101 DATE 09 APR 90 TIME 0605 GMT
LAT 00 29.9S LONG 170 00.4W

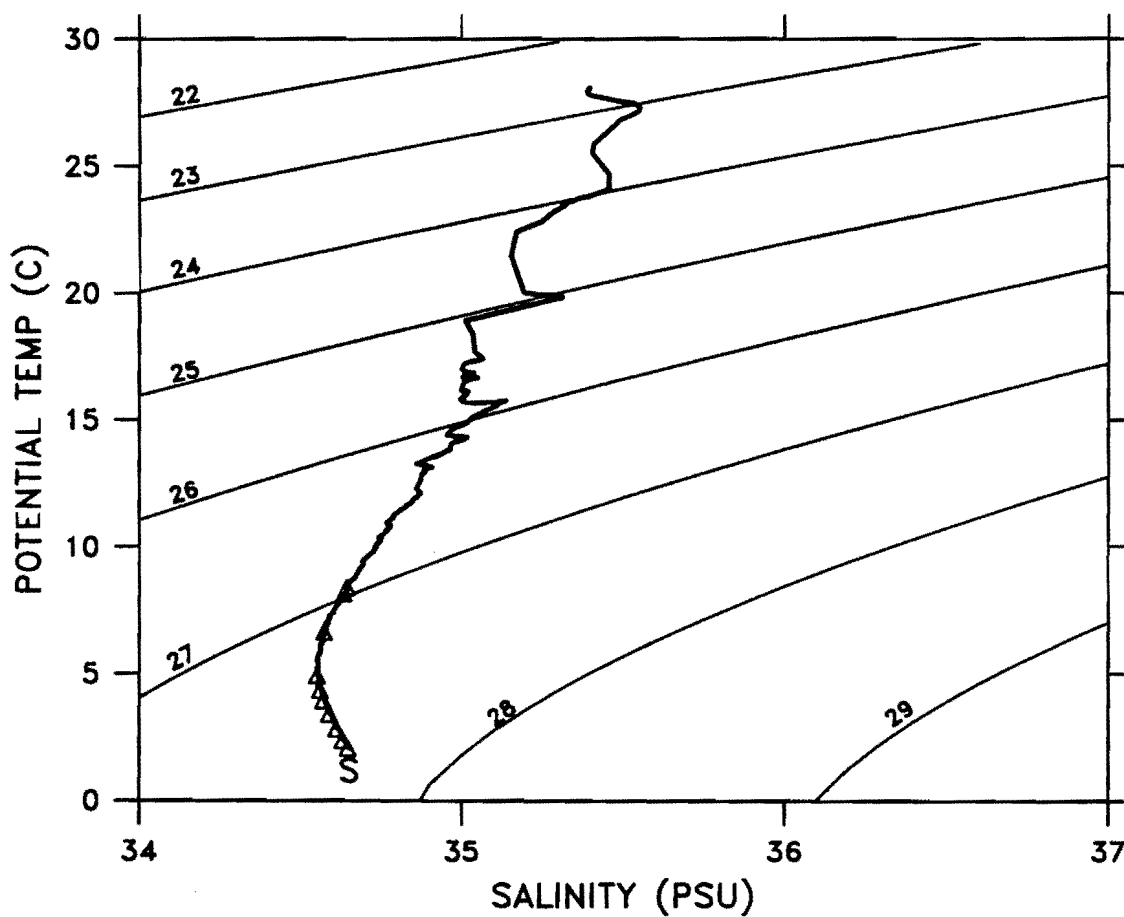


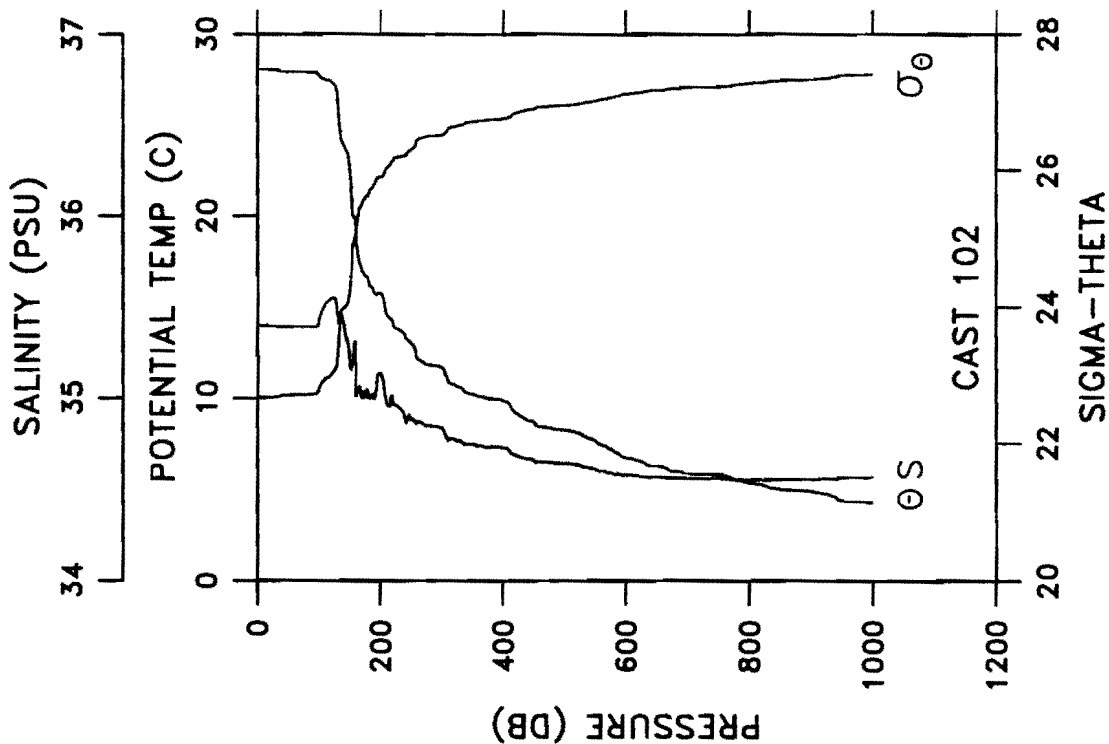
CAST CG2-90-MB -101 DATE 09 APR 90 TIME 0605 GMT
 LAT 00 29.9S LONG 170 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 090 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 6 DRY 28.0 WET 26.0 WET 26.0 DEPTH 5698 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-0 (DYN-M)
0	28.201	35.395	22.628	0.000
10	28.200	35.394	22.628	0.052
20	28.176	35.392	22.634	0.104
30	28.083	35.389	22.662	0.156
40	28.068	35.388	22.667	0.208
50	28.059	35.388	22.670	0.260
60	28.046	35.389	22.674	0.312
70	28.013	35.389	22.685	0.364
80	27.944	35.389	22.708	0.416
90	27.673	35.425	22.823	0.467
100	27.529	35.554	22.967	0.517
110	26.911	35.572	23.179	0.566
120	26.408	35.556	23.327	0.613
130	24.257	35.474	23.926	0.656
140	23.249	35.417	24.179	0.695
150	22.128	35.371	24.466	0.732
160	20.702	35.310	24.812	0.765
170	18.486	35.369	25.435	0.794
180	17.198	35.218	25.635	0.819
190	16.024	35.143	25.853	0.842
200	15.169	35.018	25.949	0.863
250	12.334	34.894	26.443	0.956
300	11.578	34.835	26.541	1.035
350	10.326	34.755	26.705	1.109
400	9.764	34.716	26.771	1.179
450	8.570	34.658	26.919	1.242
500	8.306	34.648	26.952	1.302
550	7.567	34.611	27.032	1.360
600	6.725	34.581	27.127	1.414
650	6.411	34.572	27.162	1.464
700	6.033	34.563	27.203	1.513
750	5.783	34.558	27.231	1.560
800	5.409	34.555	27.274	1.606
900	4.854	34.558	27.342	1.692
999	4.326	34.568	27.408	1.771

CAST CG2-90-MB -102 DATE 09 APR 90 TIME 0931 GMT
LAT 00 00.0S LONG 170 01.2W



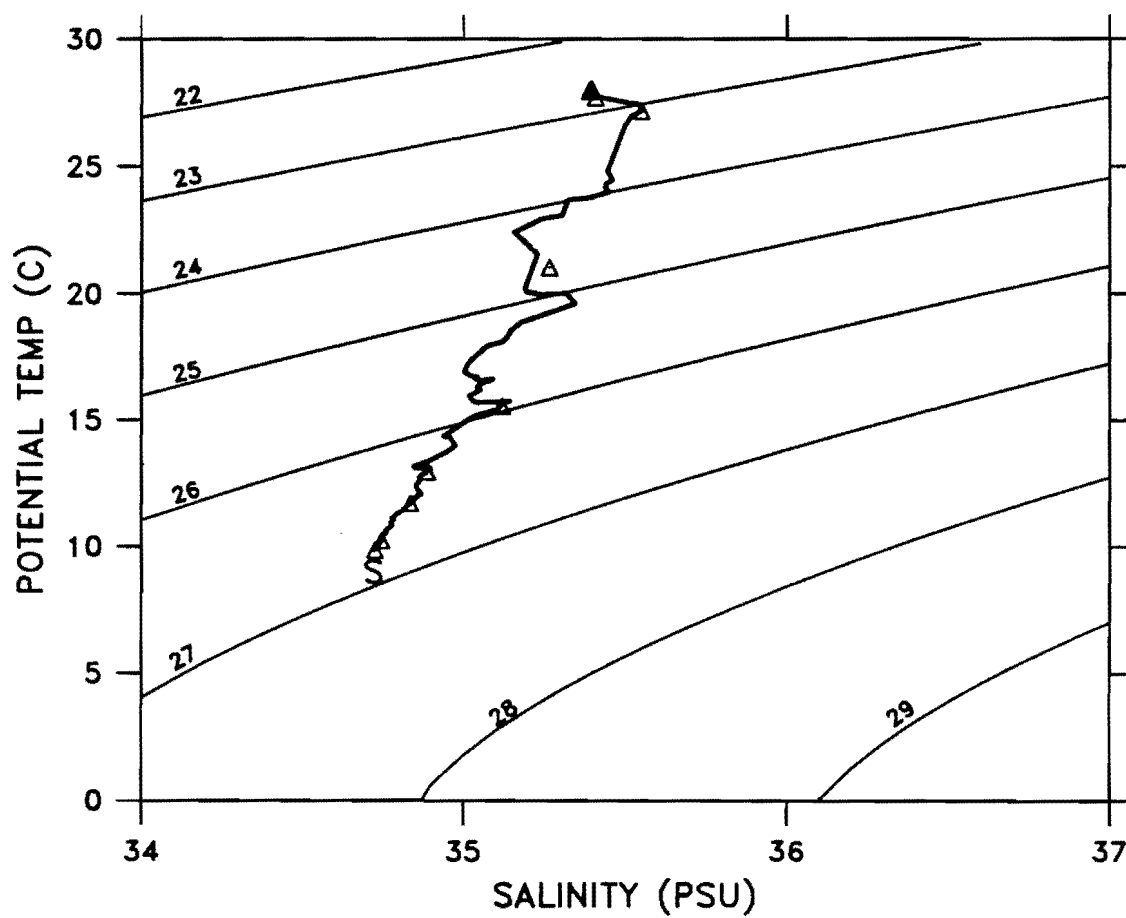


CAST CG2-90-MB -102 DATE 09 APR 90 TIME 0931 GMT
 LAT 00 00.0S LONG 170 01.2W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 078 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 27.5 WET 26.0 DEPTH 5342 M

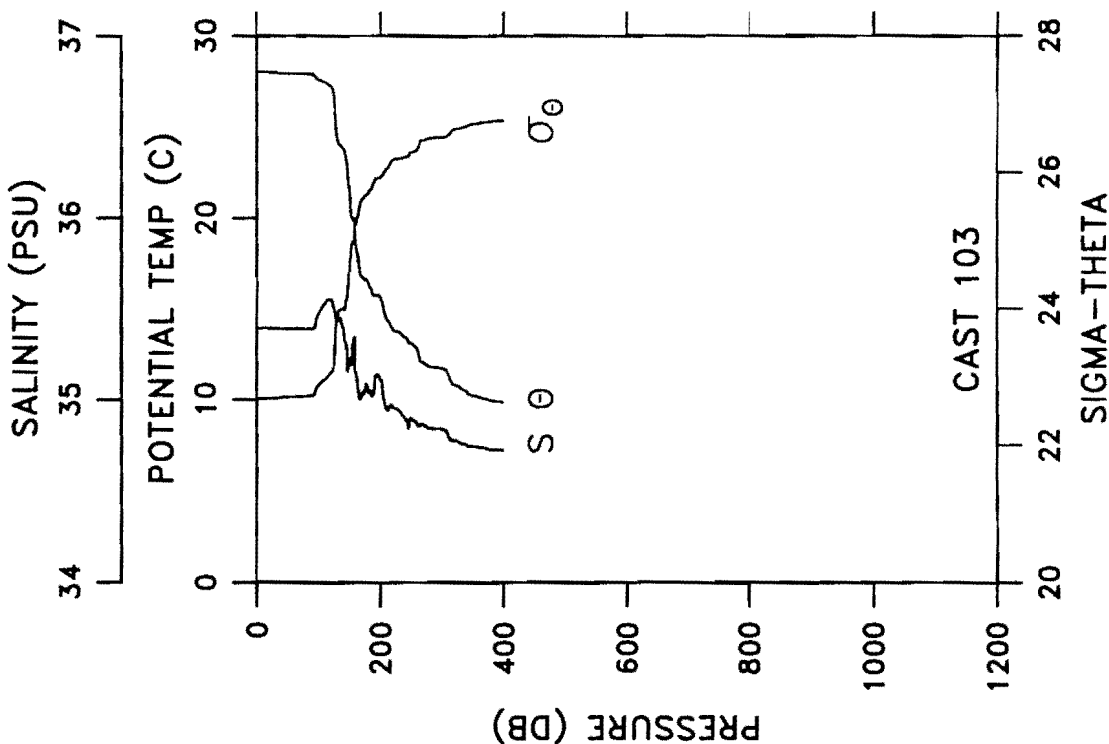
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.057	35.398	22.678	0.000
10	28.061	35.398	22.676	0.052
20	28.050	35.396	22.679	0.103
30	28.018	35.395	22.688	0.155
40	27.955	35.391	22.706	0.207
50	27.941	35.391	22.710	0.258
60	27.931	35.392	22.714	0.310
70	27.924	35.391	22.716	0.361
80	27.915	35.391	22.719	0.413
90	27.894	35.392	22.727	0.465
100	27.709	35.423	22.810	0.516
110	27.492	35.514	22.949	0.566
120	27.355	35.549	23.019	0.616
130	26.349	35.452	23.267	0.664
140	23.867	35.405	23.989	0.706
150	22.422	35.170	24.229	0.745
160	18.921	35.010	25.051	0.777
170	16.985	35.000	25.519	0.803
180	16.499	35.007	25.639	0.828
190	15.777	34.996	25.796	0.851
200	15.762	35.136	25.907	0.873
250	13.010	34.880	26.299	0.969
300	11.692	34.838	26.522	1.051
350	10.222	34.747	26.717	1.124
400	9.865	34.726	26.761	1.193
450	8.678	34.658	26.902	1.257
500	8.245	34.643	26.957	1.317
550	7.653	34.611	27.020	1.375
600	6.729	34.580	27.126	1.429
650	6.281	34.570	27.177	1.479
700	5.894	34.560	27.219	1.527
750	5.818	34.560	27.228	1.574
800	5.338	34.551	27.280	1.620
900	4.891	34.555	27.335	1.705
1000	4.278	34.568	27.413	1.784
1500	2.800	34.618	27.598	2.115
1999	2.053	34.652	27.689	2.386

CAST CG2-90-MB -103 DATE 09 APR 90 TIME 1149 GMT

LAT 00 00.7N LONG 170 00.3W



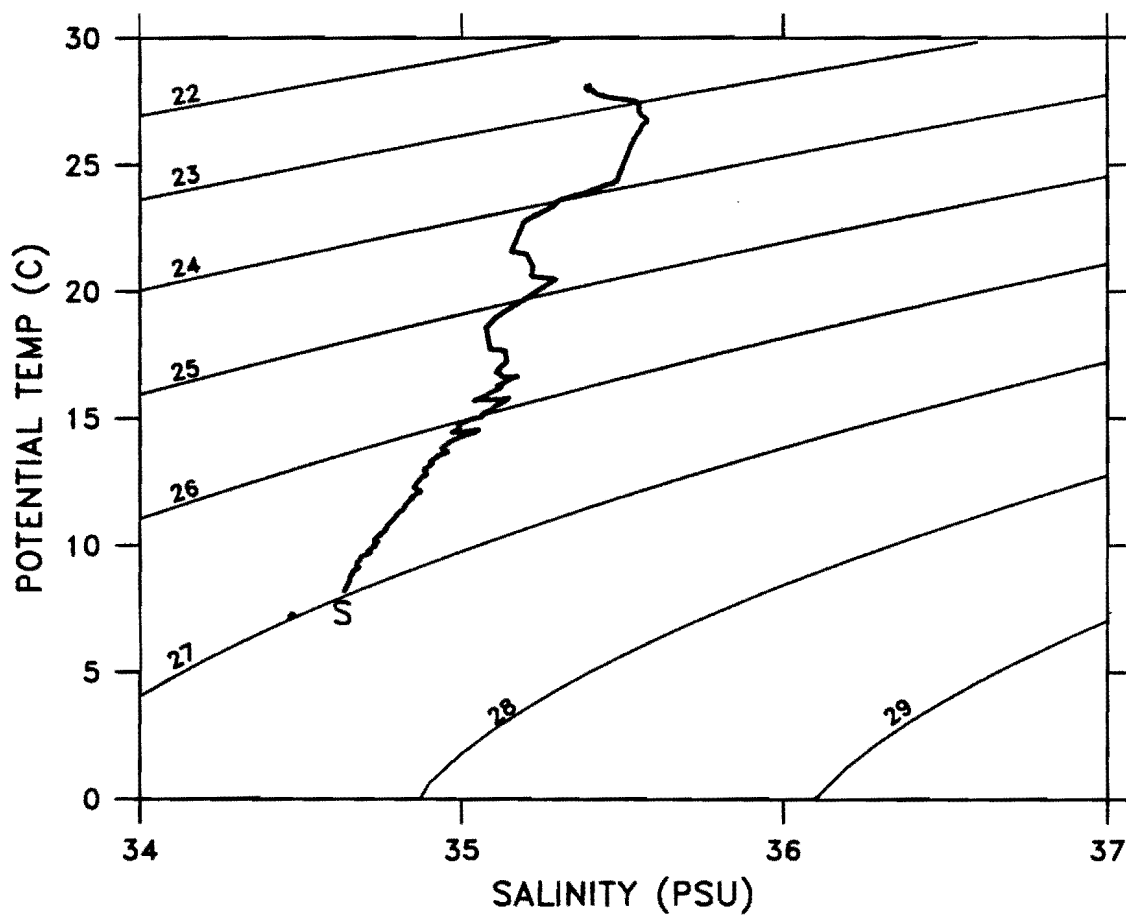
CST CG2-90-MB -103 DATE 09 APR 90 TIME 1149 GMT
LAT 00 00.7N LONG 170 00.3W WEATHER 1 SEA STATE 3
BAROMETER 08 WIND DIR 069 T SPD 10 KT VISIBILITY 8
CLOUD 9 AMOUNT 4 DRY 28.0 WET 26.0 DEPTH 5324 M



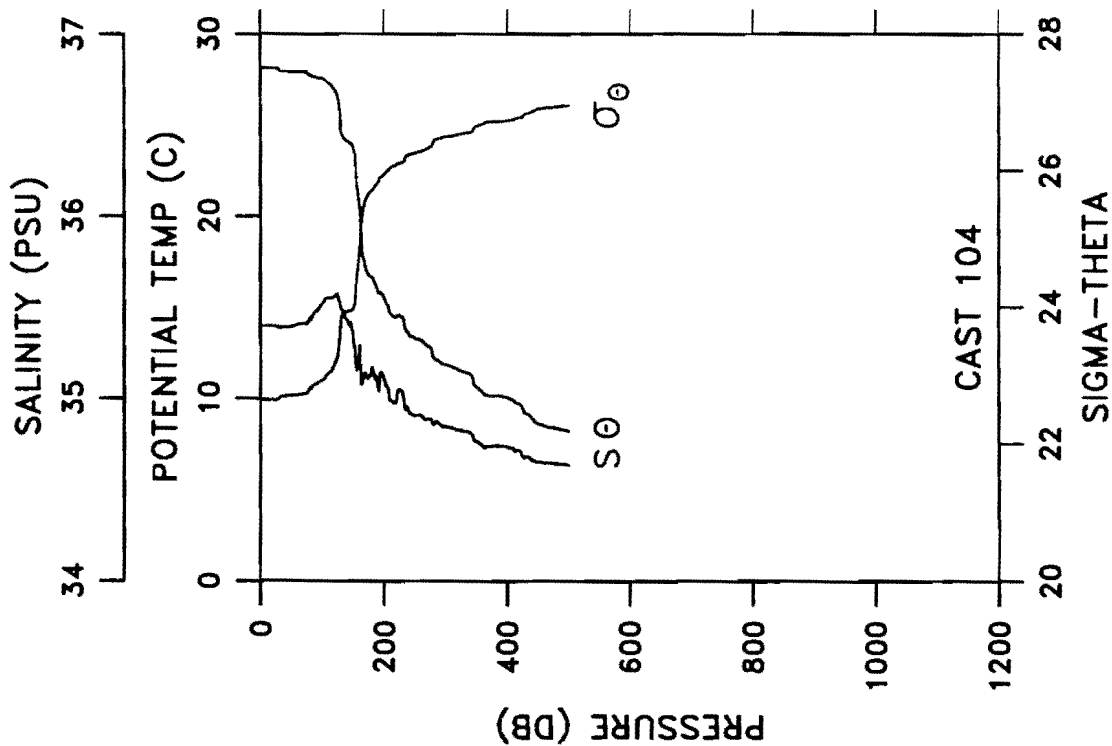
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.025	35.391	22.683	0.000
10	28.029	35.395	22.684	0.052
20	28.019	35.393	22.686	0.103
30	28.000	35.392	22.692	0.155
40	27.958	35.390	22.704	0.207
50	27.945	35.390	22.708	0.258
60	27.940	35.389	22.709	0.310
70	27.931	35.390	22.713	0.361
80	27.909	35.389	22.719	0.413
90	27.875	35.389	22.730	0.465
100	27.586	35.470	22.885	0.515
110	27.470	35.528	22.966	0.565
120	27.225	35.552	23.063	0.614
130	24.311	35.439	23.883	0.660
140	23.767	35.391	24.008	0.699
150	21.541	35.228	24.520	0.737
160	18.558	35.148	25.247	0.768
170	16.731	35.026	25.599	0.794
180	16.444	35.054	25.687	0.818
190	15.696	35.048	25.855	0.840
200	15.599	35.109	25.923	0.862
250	13.111	34.899	26.293	0.958
300	11.731	34.837	26.514	1.040
350	10.236	34.745	26.712	1.114
399	9.866	34.720	26.757	1.182

CAST CG2-90-MB -104 DATE 11 APR 90 TIME 0916 GMT

LAT 00 02.0S LONG 169 32.3W

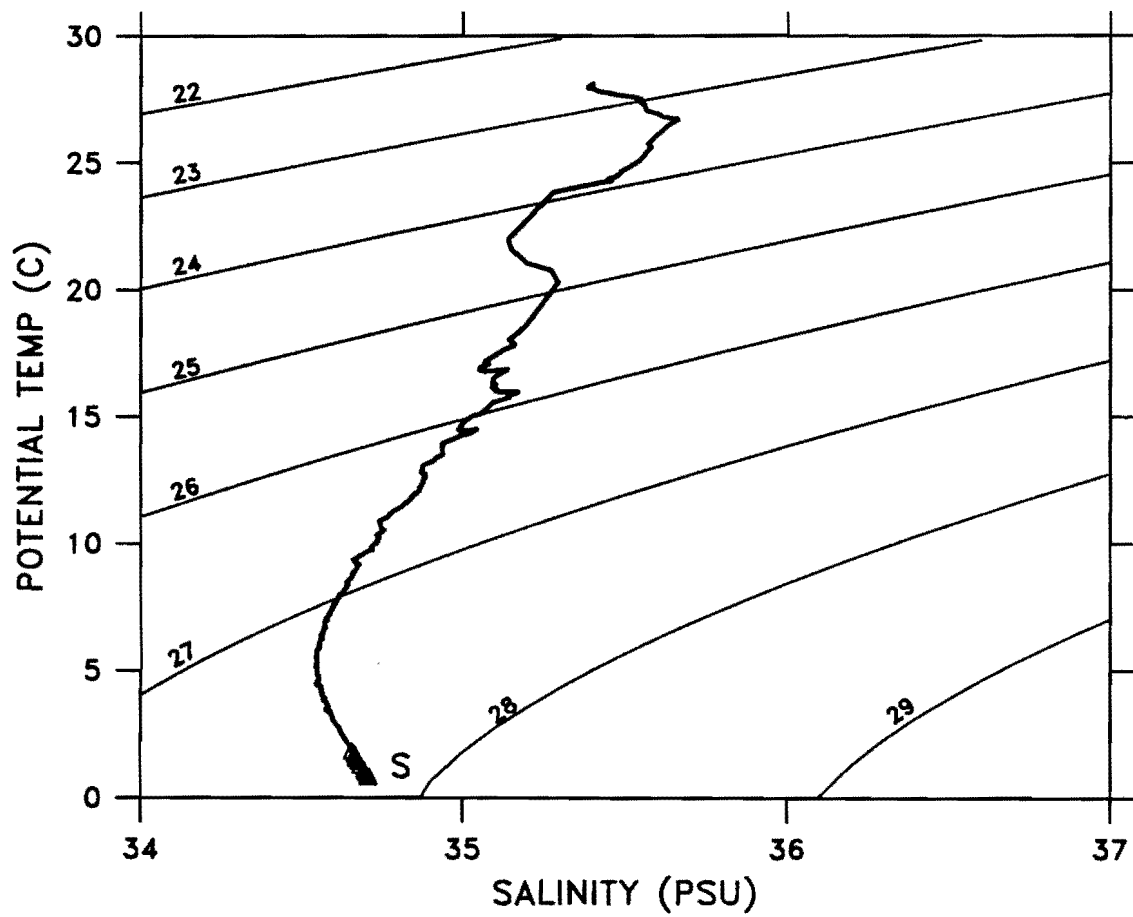


CAST CG2-90-MB -104 DATE 11 APR 90 TIME 0916 GMT
 LAT 00 02.0S LONG 169 32.3W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 072 T SPD 13 KT VISIBILITY 8
 CLOUD 2 AMOUNT 5 DRY 27.8 WET 25.9 DEPTH 5181 M

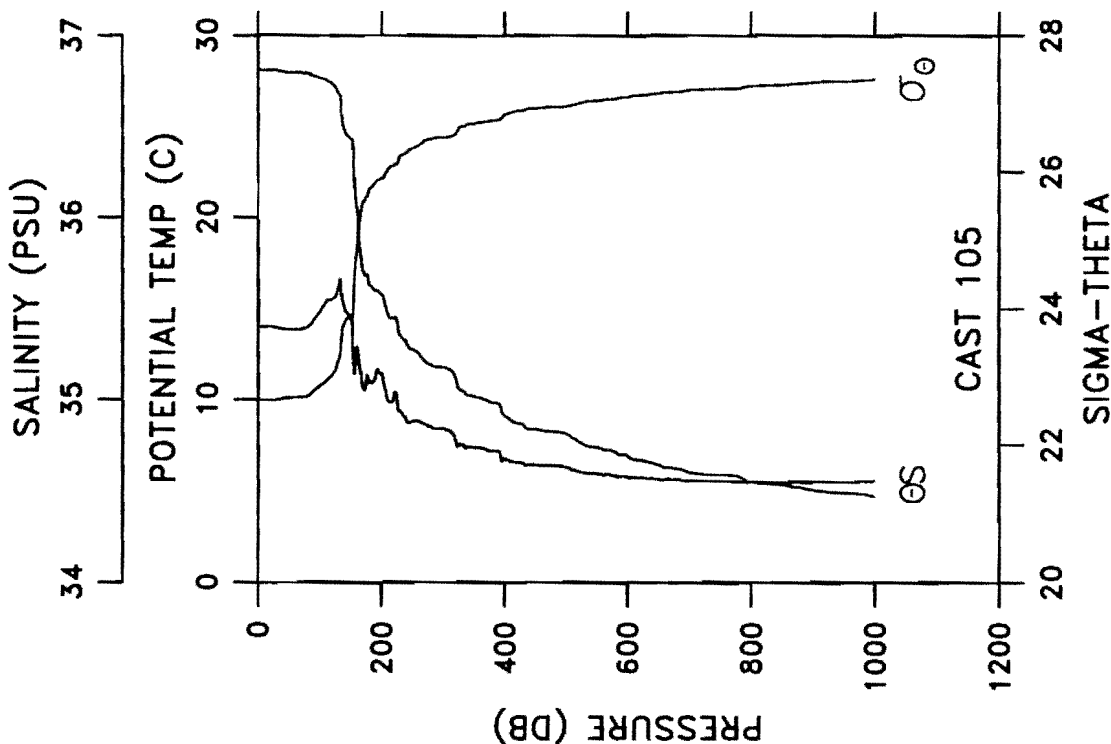


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.145	35.396	22.647	0.000
10	28.142	35.397	22.649	0.052
20	28.139	35.396	22.649	0.104
30	28.028	35.386	22.678	0.156
40	27.959	35.390	22.703	0.208
50	27.940	35.393	22.712	0.259
60	27.937	35.405	22.722	0.311
70	27.916	35.410	22.733	0.362
80	27.705	35.442	22.825	0.413
90	27.621	35.476	22.879	0.464
100	27.558	35.518	22.931	0.514
110	27.318	35.549	23.032	0.563
120	26.930	35.558	23.163	0.611
130	24.734	35.491	23.795	0.657
140	24.124	35.431	23.933	0.698
150	23.825	35.354	23.963	0.738
160	20.589	35.216	24.768	0.775
170	17.228	35.139	25.568	0.802
180	16.637	35.154	25.719	0.826
190	15.936	35.078	25.823	0.849
200	15.535	35.108	25.937	0.871
250	13.292	34.904	26.260	0.969
300	11.851	34.846	26.498	1.054
350	10.633	34.764	26.658	1.132
400	10.070	34.734	26.733	1.203
450	8.611	34.653	26.908	1.269
500	8.194	34.636	26.959	1.329
501	8.187	34.635	26.959	1.330

CAST CG2-90-MB -105 DATE 11 APR 90 TIME 1400 GMT
LAT 00 00.0S LONG 170 00.2W

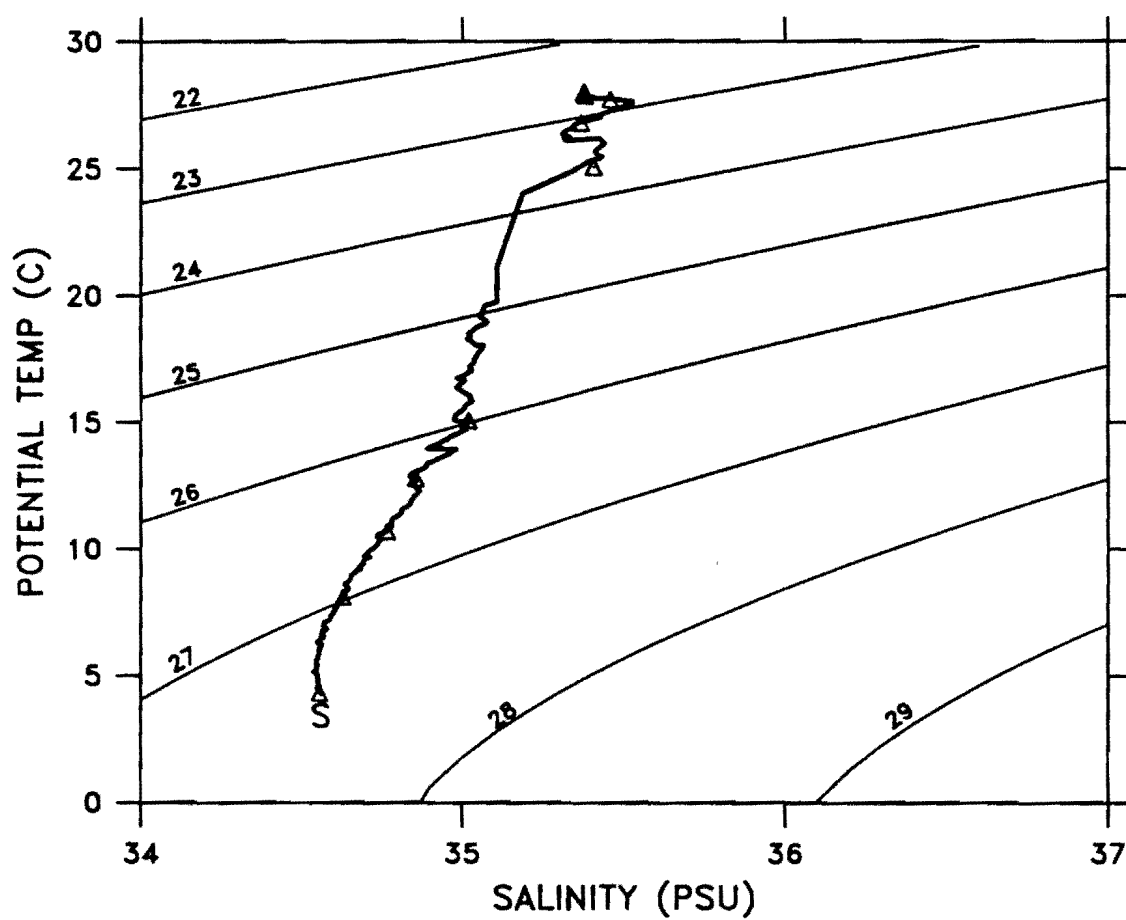


CAST 002-90-MB -105 DATE 11 APR 90 TIME 1400 GMT
 LAT 00 00.05 LONG 170 00.2W WEATHER 1 SEA STATE 2
 BAROMETER 10 WIND DIR 105 T SPD 12 KT VISIBILITY 8
 CLOUD 9 AMOUNT 3 DRY 28.0 WET 26.0 DEPTH M

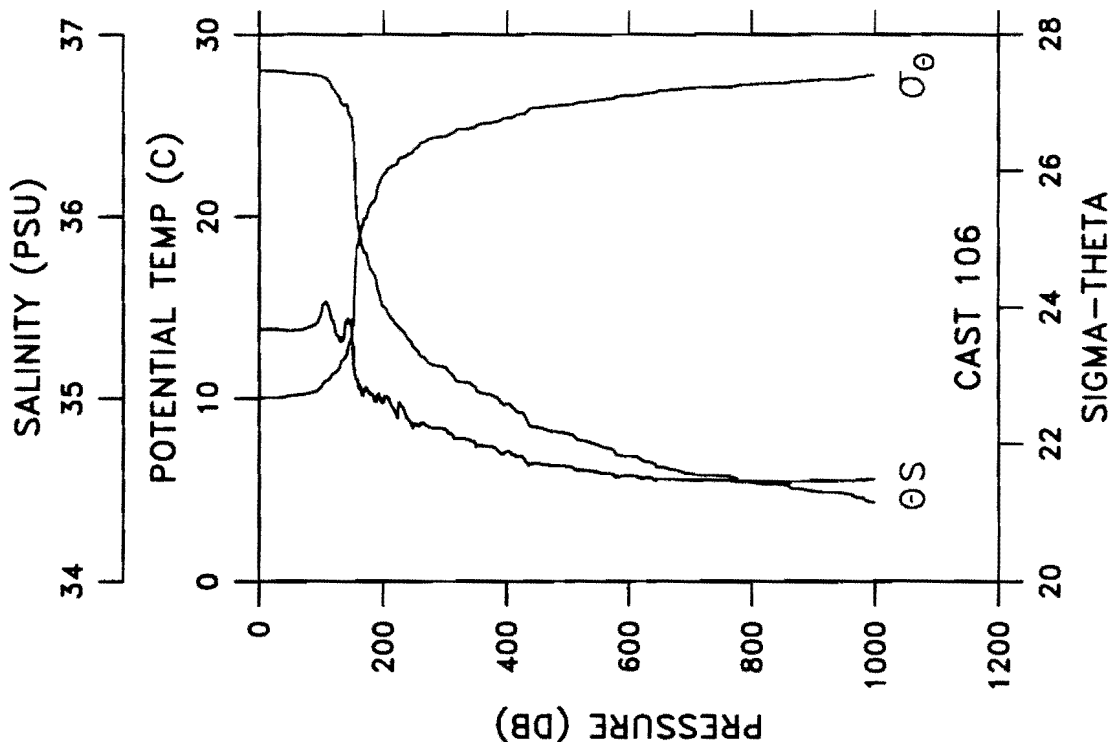


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.107	35.399	22.662	0.000
10	28.110	35.400	22.661	0.052
20	28.110	35.399	22.661	0.104
30	28.094	35.396	22.664	0.156
40	28.011	35.387	22.684	0.207
50	27.971	35.385	22.696	0.259
60	27.958	35.385	22.700	0.311
70	27.946	35.386	22.705	0.363
80	27.934	35.399	22.719	0.414
90	27.774	35.439	22.800	0.466
100	27.663	35.481	22.868	0.516
110	27.559	35.532	22.941	0.566
120	27.343	35.547	23.022	0.615
130	26.853	35.609	23.226	0.664
140	24.829	35.510	23.781	0.708
150	24.340	35.446	23.879	0.749
160	20.548	35.281	24.831	0.787
170	17.087	35.078	25.554	0.814
180	16.324	35.091	25.744	0.838
190	15.985	35.118	25.843	0.861
200	15.781	35.142	25.908	0.883
250	12.748	34.878	26.349	0.979
300	11.766	34.839	26.509	1.061
350	10.196	34.739	26.715	1.135
400	9.094	34.672	26.846	1.204
450	8.374	34.644	26.938	1.265
500	8.122	34.629	26.964	1.324
550	7.391	34.593	27.044	1.381
600	6.911	34.572	27.094	1.435
650	6.446	34.566	27.152	1.486
700	6.007	34.557	27.202	1.535
750	5.872	34.555	27.217	1.583
800	5.497	34.548	27.258	1.629
900	5.037	34.548	27.313	1.719
1000	4.679	34.553	27.358	1.803
1500	2.831	34.610	27.589	2.148
2000	2.096	34.645	27.680	2.425
2500	1.702	34.664	27.726	2.669
3000	1.425	34.675	27.755	2.899
3500	1.272	34.683	27.772	3.124
4000	1.083	34.695	27.795	3.344
4500	0.907	34.703	27.813	3.556
5000	0.824	34.707	27.821	3.762
5582	0.816	34.707	27.822	4.012

CAST CG2-90-MB -106 DATE 11 APR 90 TIME 1837 GMT
LAT 00 30.0N LONG 170 00.3W

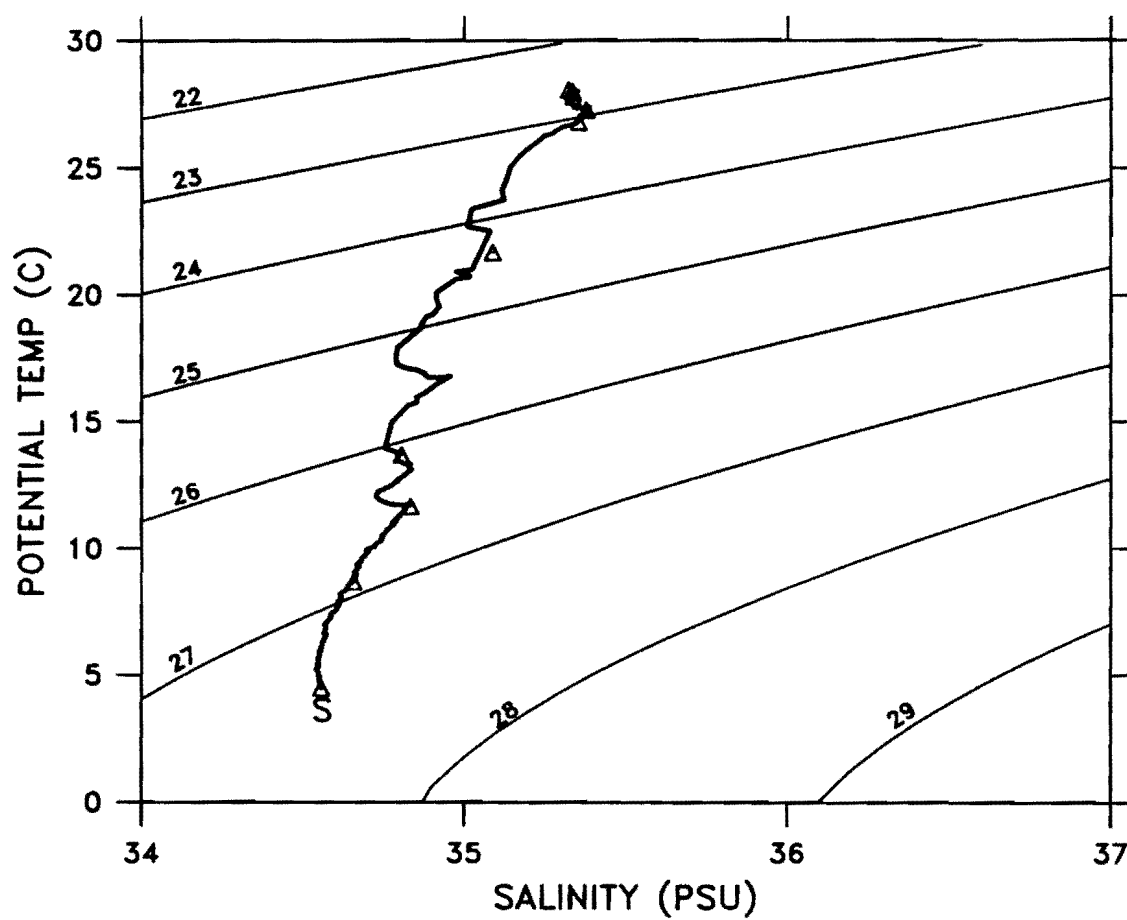


CAST CG2-90-MB --106 DATE 11 APR 90 TIME 1837 GMT
 LAT 00 30.0N LONG 170 00.3W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 104 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 28.0 WET 26.0 DEPTH 5285 M

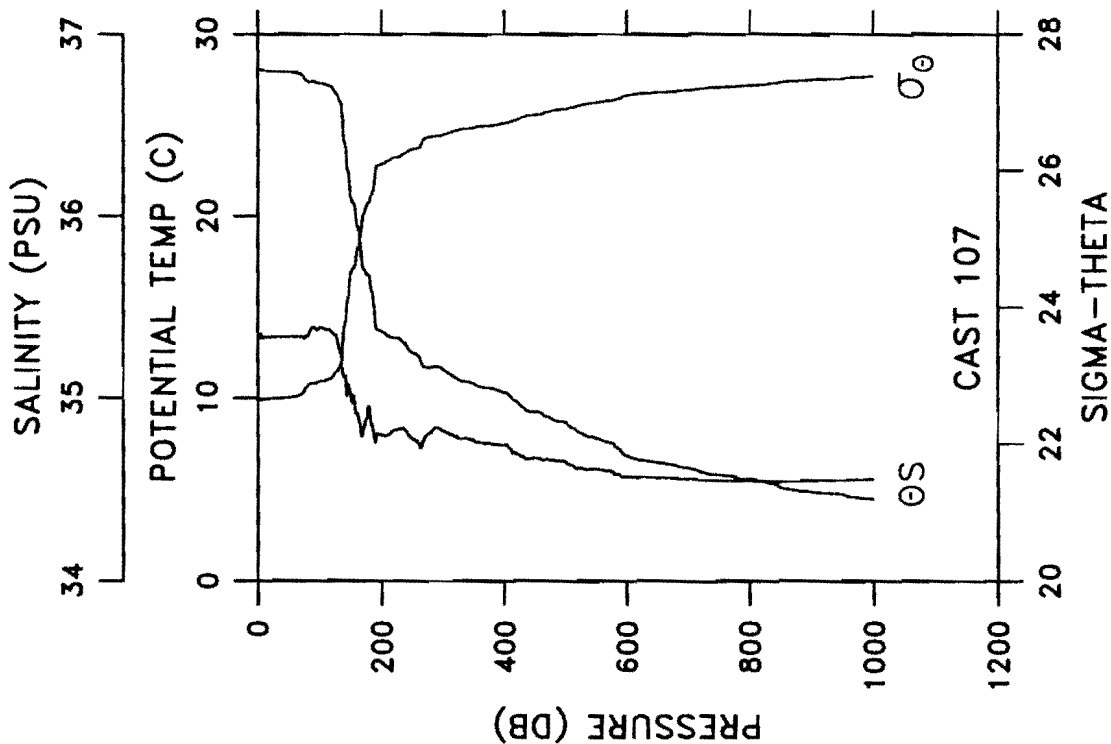


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.028	35.382	22.675	0.000
10	28.020	35.382	22.677	0.052
20	28.017	35.383	22.679	0.103
30	28.017	35.382	22.679	0.155
40	27.975	35.377	22.689	0.207
50	27.891	35.374	22.714	0.258
60	27.871	35.378	22.724	0.310
70	27.857	35.382	22.731	0.361
80	27.828	35.395	22.750	0.413
90	27.796	35.409	22.771	0.464
100	27.716	35.482	22.852	0.515
110	27.523	35.518	22.942	0.565
120	26.979	35.416	23.040	0.614
130	26.392	35.311	23.147	0.662
140	26.191	35.424	23.296	0.709
150	24.922	35.344	23.627	0.754
160	19.294	35.061	24.994	0.790
170	18.028	35.050	25.305	0.818
180	17.087	35.028	25.516	0.845
190	16.078	35.017	25.744	0.869
200	15.061	34.978	25.943	0.891
250	12.801	34.863	26.327	0.988
300	11.722	34.833	26.512	1.070
350	10.599	34.739	26.645	1.145
400	9.689	34.710	26.779	1.215
450	8.434	34.645	26.930	1.279
500	8.074	34.629	26.971	1.338
550	7.451	34.596	27.037	1.395
600	6.849	34.578	27.108	1.449
650	6.256	34.563	27.174	1.500
700	5.896	34.555	27.214	1.548
750	5.774	34.553	27.228	1.595
800	5.423	34.548	27.267	1.641
900	4.929	34.549	27.326	1.729
1000	4.305	34.560	27.404	1.811
1002	4.288	34.561	27.407	1.813

CAST CG2-90-MB -107 DATE 11 APR 90 TIME 2145 GMT
LAT 01 00.1N LONG 170 00.3W

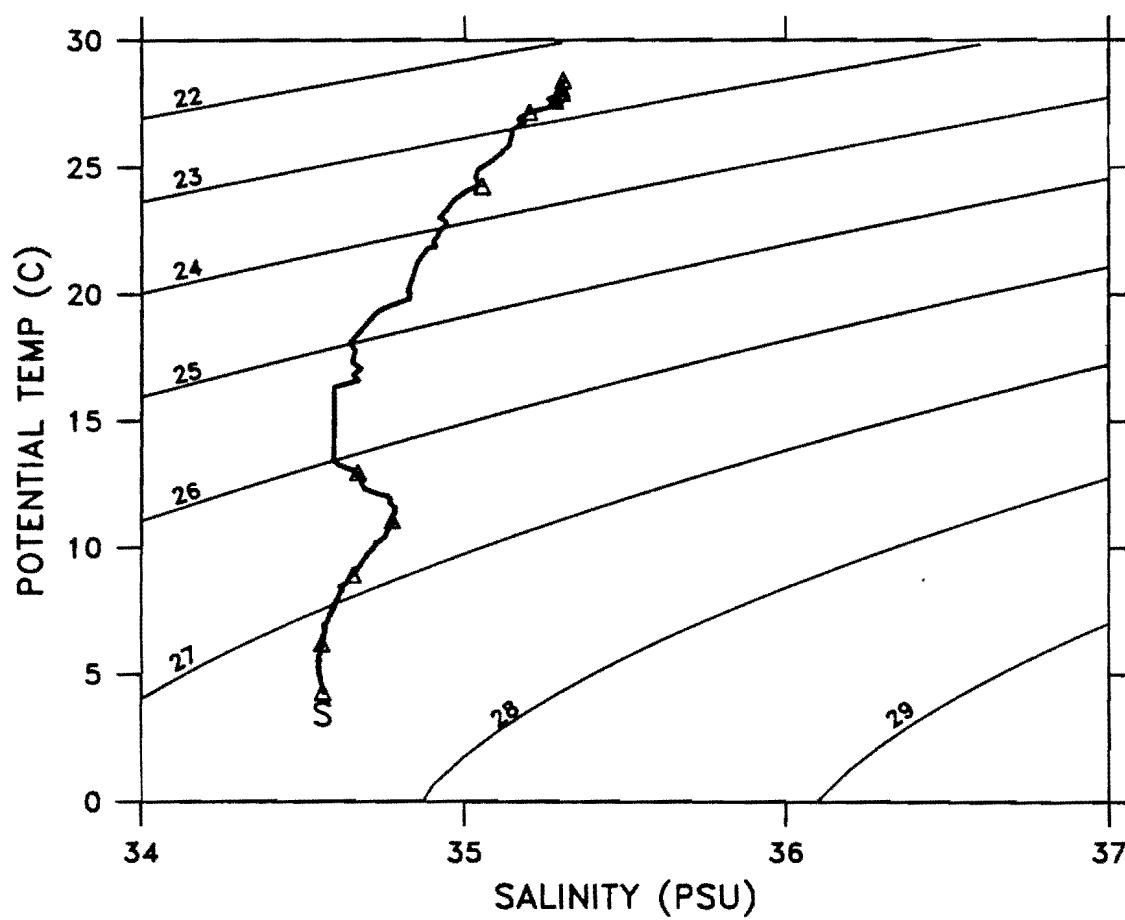


CAST CG2-90-MB -107 DATE 11 APR 90 TIME 2145 GMT
 LAT 01 00.1N LONG 170 00.3W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 117 T SPD 16 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 29.3 WET 26.8 DEPTH 5316 M

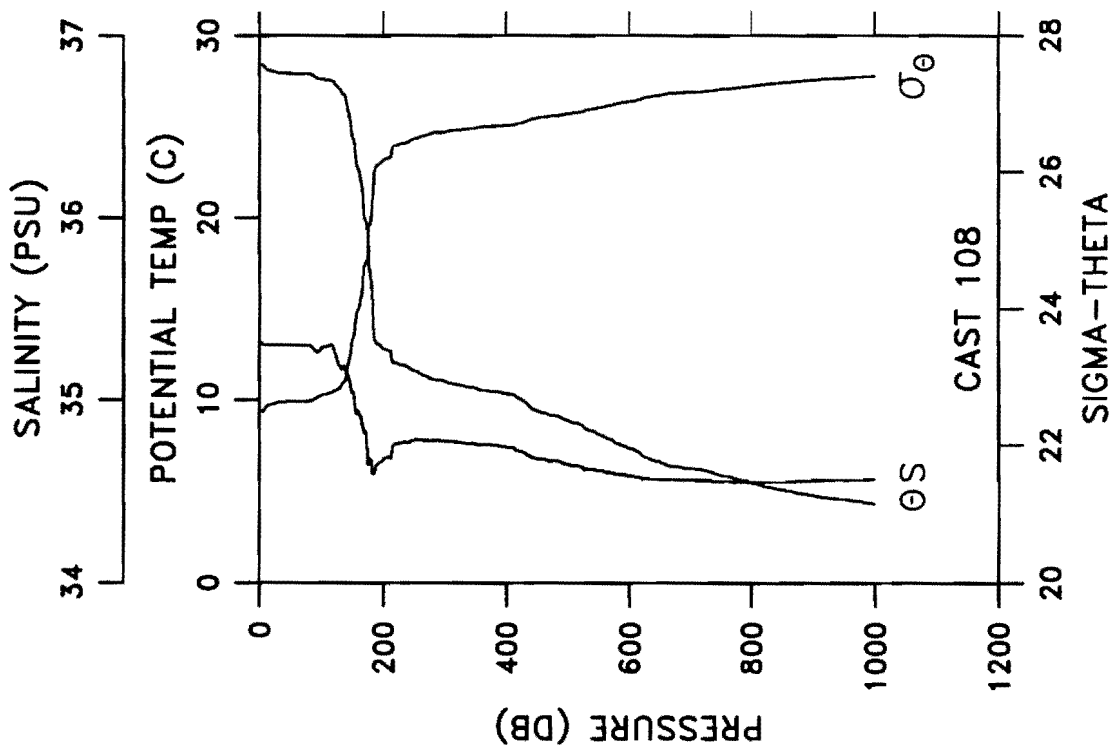


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.051	35.334	22.632	0.000
10	28.008	35.335	22.646	0.052
20	27.976	35.337	22.658	0.104
30	27.967	35.339	22.663	0.156
40	27.946	35.339	22.670	0.208
50	27.931	35.339	22.675	0.260
60	27.889	35.340	22.689	0.312
70	27.775	35.341	22.727	0.363
80	27.431	35.340	22.838	0.414
90	27.389	35.387	22.886	0.464
100	27.289	35.387	22.919	0.514
110	27.233	35.377	22.929	0.564
120	27.061	35.360	22.971	0.614
130	26.474	35.285	23.102	0.663
140	24.013	35.118	23.729	0.709
150	21.016	35.023	24.509	0.748
160	19.546	34.922	24.822	0.781
170	17.113	34.820	25.351	0.811
180	16.733	34.946	25.537	0.837
190	13.953	34.754	26.007	0.860
200	13.682	34.798	26.098	0.880
250	12.509	34.777	26.318	0.973
300	11.578	34.820	26.530	1.056
350	10.811	34.768	26.630	1.132
400	10.326	34.744	26.696	1.204
450	9.274	34.675	26.820	1.273
500	8.661	34.651	26.899	1.336
550	7.790	34.611	26.999	1.396
600	6.853	34.572	27.102	1.451
650	6.494	34.568	27.147	1.503
700	6.199	34.559	27.179	1.552
750	5.833	34.553	27.221	1.600
800	5.585	34.549	27.248	1.647
900	4.872	34.549	27.332	1.734
999	4.492	34.558	27.382	1.816

CAST CG2-90-MB -108 DATE 12 APR 90 TIME 0308 GMT
LAT 02 00.3N LONG 170 00.9W

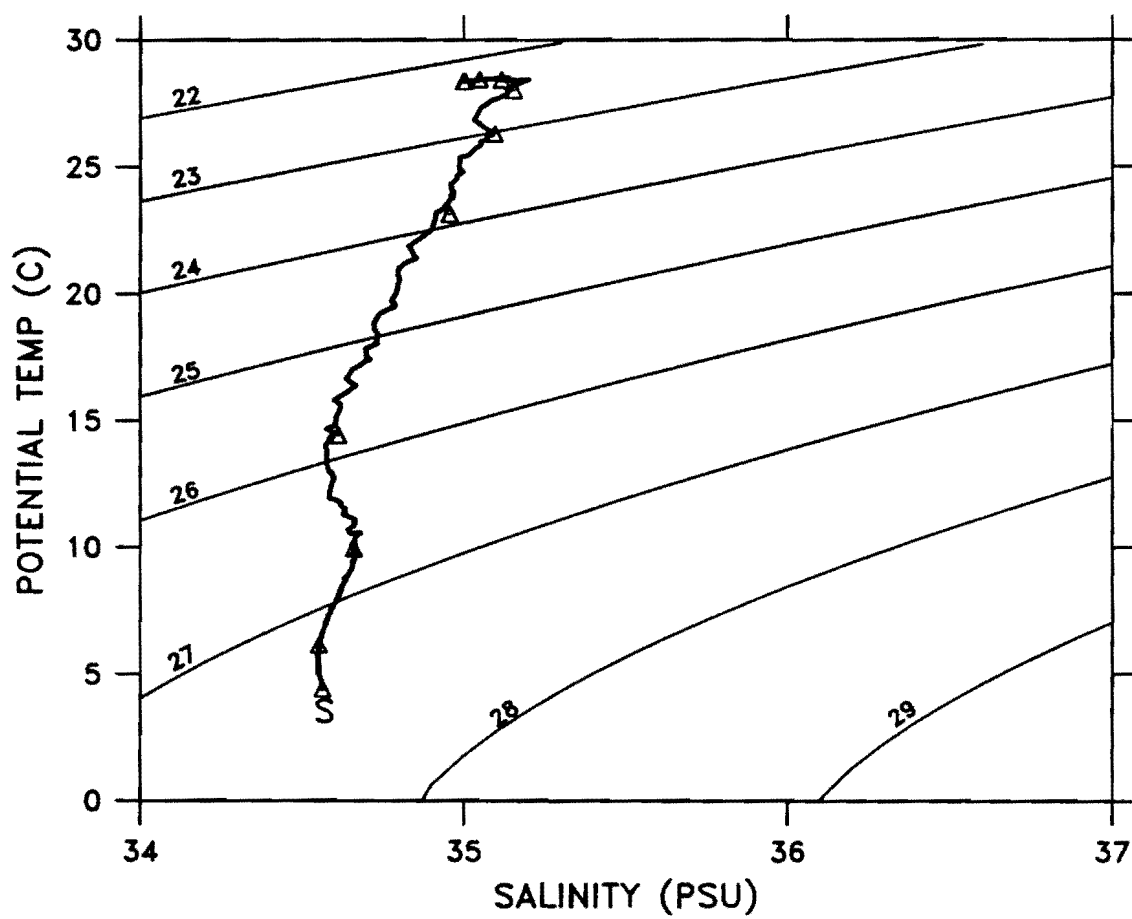


CAST 02-90-MB --108 DATE 12 APR 90 TIME 0308 GMT
 LAT 02 00.3N LONG 170 00.9W WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 096 T SPD 14 KT VISIBILITY 7
 CLOUD 2 AMOUNT 4 DRY 28.5 WET 27.0 DEPTH 5357 M

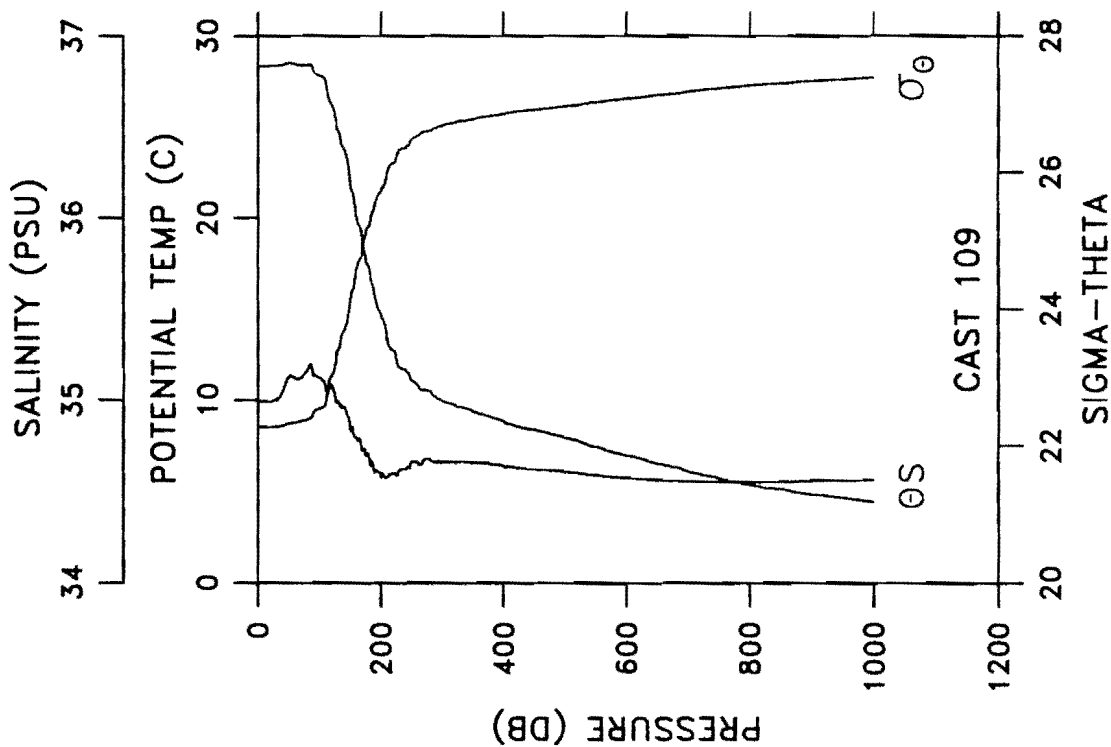


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.378	35.310	22.505	0.000
10	28.215	35.299	22.551	0.053
20	28.067	35.304	22.604	0.106
30	27.978	35.302	22.631	0.158
40	27.960	35.301	22.637	0.210
50	27.937	35.301	22.644	0.263
60	27.931	35.301	22.645	0.315
70	27.929	35.300	22.646	0.367
80	27.919	35.297	22.647	0.419
90	27.756	35.271	22.680	0.472
100	27.615	35.283	22.735	0.523
110	27.582	35.295	22.755	0.575
120	27.449	35.280	22.786	0.626
130	27.070	35.189	22.840	0.677
140	26.479	35.149	22.997	0.727
150	24.433	35.042	23.546	0.774
160	22.597	34.928	23.996	0.816
170	19.938	34.826	24.646	0.853
180	16.598	34.669	25.356	0.883
190	13.075	34.646	26.105	0.905
200	12.780	34.676	26.186	0.925
250	11.585	34.780	26.497	1.010
300	11.011	34.771	26.596	1.087
350	10.621	34.755	26.653	1.161
400	10.324	34.741	26.694	1.233
450	9.388	34.677	26.802	1.302
500	8.867	34.645	26.862	1.368
550	8.111	34.608	26.949	1.430
600	7.346	34.583	27.042	1.488
650	6.596	34.563	27.130	1.541
700	6.223	34.559	27.176	1.591
750	5.845	34.551	27.218	1.640
800	5.447	34.549	27.265	1.686
900	4.746	34.555	27.351	1.772
1000	4.303	34.563	27.406	1.851
1001	4.296	34.564	27.408	1.852

CAST CG2-90-MB -109 DATE 12 APR 90 TIME 1655 GMT
LAT 05 00.1N LONG 170 00.6W

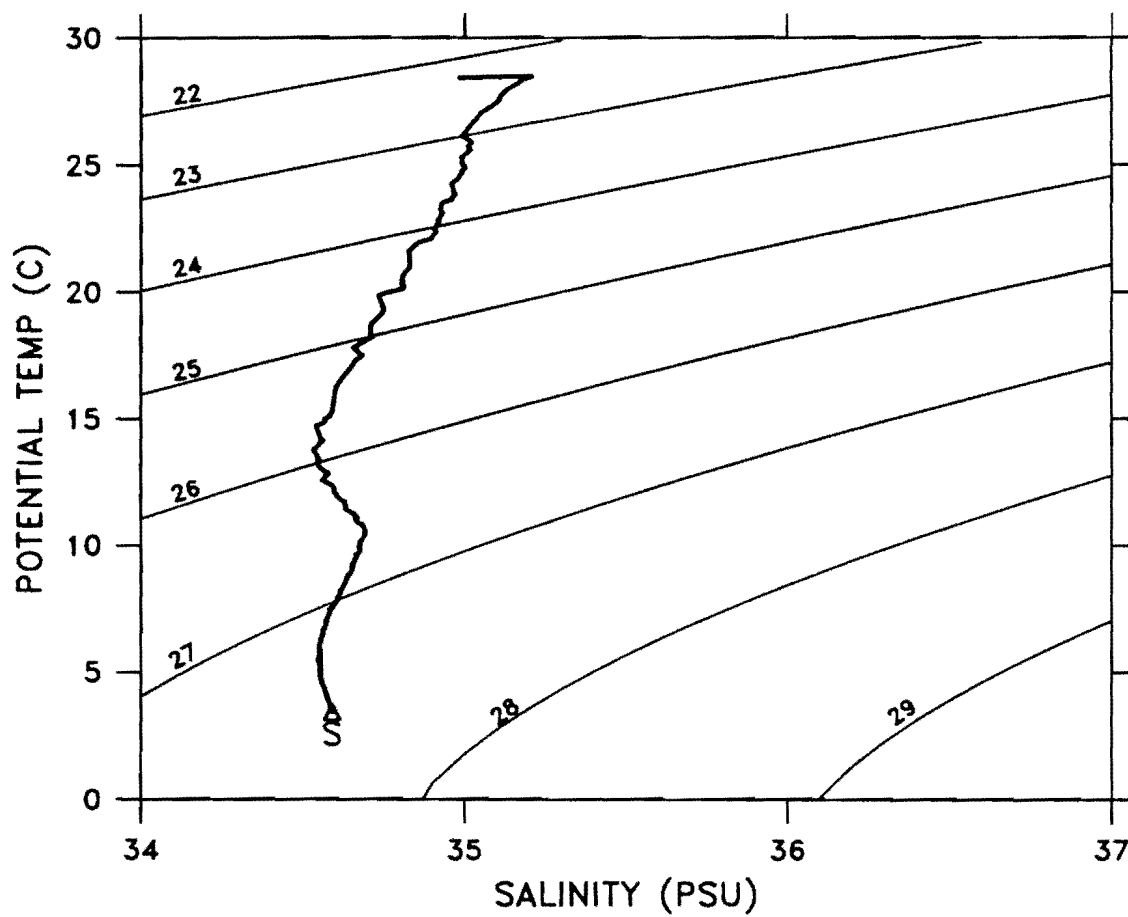


CAST CG2-90-MB -109 DATE 12 APR 90 TIME 1655 GMT
 LAT 05 00.1N LONG 170 00.6W WEATHER 2 SEA STATE 3
 BAROMETER 08 WIND DIR 090 T SPD 22 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 29.5 WET 26.0 DEPTH 7161 M

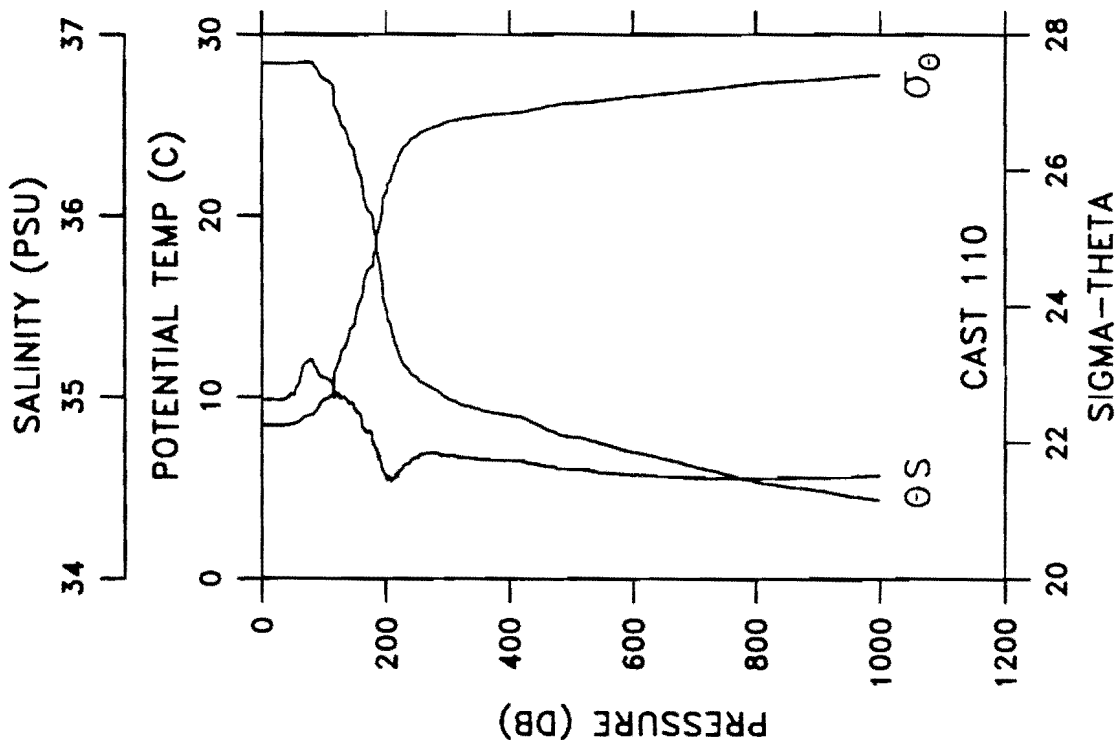


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.352	34.993	22.276	0.000
10	28.349	34.991	22.276	0.055
20	28.354	34.992	22.275	0.111
30	28.370	35.002	22.277	0.167
40	28.423	35.049	22.295	0.222
50	28.515	35.132	22.327	0.278
60	28.464	35.124	22.337	0.333
70	28.402	35.125	22.358	0.388
80	28.420	35.162	22.380	0.443
90	28.048	35.133	22.481	0.497
100	27.837	35.125	22.544	0.551
110	27.509	35.072	22.610	0.604
120	26.255	35.088	23.022	0.655
130	24.810	34.998	23.399	0.702
140	23.761	34.960	23.683	0.746
150	21.901	34.830	24.118	0.787
160	20.042	34.791	24.593	0.823
170	18.618	34.723	24.907	0.856
180	17.341	34.696	25.200	0.885
190	15.628	34.620	25.540	0.912
200	14.690	34.575	25.712	0.936
250	11.110	34.659	26.491	1.030
300	9.980	34.660	26.690	1.105
350	9.391	34.659	26.788	1.173
400	8.854	34.640	26.860	1.237
450	8.374	34.623	26.921	1.299
500	7.940	34.606	26.974	1.358
550	7.435	34.589	27.034	1.415
600	6.961	34.575	27.089	1.470
650	6.517	34.562	27.139	1.522
700	6.088	34.554	27.189	1.572
750	5.704	34.550	27.234	1.620
800	5.348	34.552	27.279	1.665
900	4.824	34.557	27.345	1.751
1000	4.432	34.563	27.393	1.832
1005	4.405	34.566	27.398	1.835

CAST CG2-90-MB -110 DATE 12 APR 90 TIME 1923 GMT
LAT 05 13.7N LONG 169 52.4W



CST C02-90-MB -110 DATE 12 APR 90 TIME 1923 GMT
 LAT 05 13.7N LONG 169 52.4W WEATHER 6 SEA STATE 4
 BAROMETER 09 WIND DIR 060 T SPD 20 KT VISIBILITY 8
 CLOUD 8 AMOUNT 8 DRY 27.1 WET 26.0 DEPTH 5486 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.413	34.984	22.250	0.000
10	28.414	34.985	22.250	0.056
20	28.412	34.983	22.249	0.112
30	28.406	34.982	22.250	0.167
40	28.419	34.993	22.254	0.223
50	28.433	35.014	22.266	0.279
60	28.462	35.084	22.308	0.335
70	28.473	35.187	22.382	0.390
80	28.458	35.205	22.400	0.445
90	28.016	35.139	22.496	0.499
100	27.545	35.106	22.624	0.552
110	27.350	35.088	22.674	0.604
120	25.827	35.019	23.103	0.655
130	24.937	34.999	23.361	0.702
140	24.156	34.963	23.569	0.747
150	23.216	34.925	23.816	0.789
160	22.104	34.897	24.112	0.829
170	20.346	34.806	24.524	0.865
180	19.298	34.750	24.755	0.899
190	17.295	34.661	25.184	0.930
200	14.880	34.569	25.667	0.956
250	11.094	34.668	26.501	1.049
300	9.915	34.671	26.710	1.123
350	9.352	34.659	26.794	1.190
400	8.986	34.649	26.846	1.255
450	8.423	34.626	26.917	1.318
500	7.799	34.603	26.992	1.376
550	7.426	34.585	27.032	1.433
600	6.948	34.570	27.098	1.488
650	6.584	34.564	27.132	1.540
700	6.161	34.553	27.179	1.590
750	5.759	34.554	27.230	1.638
800	5.340	34.551	27.280	1.684
900	4.860	34.556	27.339	1.770
1000	4.337	34.568	27.407	1.849
1249	3.437	34.593	27.519	2.026

HYDROGRAPHIC DATA

CAST CG1-90-MB -000 LAT 14 53.2S LONG 170 08.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3006.	1.706	34.678	3.57	1.484	27.753
2999.	1.708	34.677	3.55	1.487	27.752

CAST CG1-90-MB -002 LAT 15 00.1S LONG 170 00.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	28.197	35.527	4.59	28.196	22.729
48.	27.715	35.513	4.67	27.704	22.879
98.	26.607	35.624	4.66	26.585	23.322
147.	23.710	36.075	3.95	23.679	24.552
197.	21.418	35.859	3.95	21.380	25.045
247.	19.256	35.628	3.88	19.211	25.448
297.	16.650	35.285	3.70	16.602	25.828
346.	14.135	35.058	4.09	14.084	26.215
396.	10.790	34.689	3.58	10.742	26.580
495.	7.668	34.496	3.47	7.619	26.934
595.	6.233	34.445	3.65	6.180	27.091
696.	5.358	34.449	3.62	5.300	27.203
795.	4.811	34.480	3.40	4.747	27.292
995.	4.069	34.510	3.30	3.993	27.397
1244.	3.301	34.555	3.18	3.211	27.510
1494.	2.776	34.590	3.30	2.671	27.587
1743.	2.417	34.616	3.34	2.296	27.640
1993.	2.147	34.640	3.38	2.009	27.683
2493.	1.890	34.659	3.50	1.712	27.721
2991.	1.703	34.675	3.54	1.483	27.751
3492.	1.522	34.687	3.90	1.256	27.776
3991.	1.312	34.718	4.53	0.999	27.819
4494.	1.050	34.716	4.77	0.689	27.837

CAST CG1-90-MB -001 LAT 14 59.5S LONG 170 00.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	28.214	35.531*	4.51	28.213*	22.726*
18.	28.152	35.531*	4.45	28.148*	22.748*
39.	28.043	35.527	4.45	28.034	22.782
59.	27.685	35.518	4.53	27.671	22.894
78.	27.502	35.554	4.49	27.484	22.982
98.	26.771	35.614	4.49	26.749	23.263
122.	24.870	35.917	4.15	24.843	24.084
148.	23.875	36.091	3.86	23.844	24.516
173.	22.667	35.893	3.86	22.632	24.719
197.	21.986	35.984	3.76	21.947	24.982

CAST CG1-90-MB -003 LAT 16 28.3S LONG 169 59.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	28.132	35.472	4.62	28.131	22.709
19.	27.302	35.453	4.63	27.298	22.966
38.	27.135	35.451	4.63	27.126	23.019
58.	26.629	35.422	4.75	26.616	23.160
79.	26.538	35.422	4.73	26.520	23.190
98.	26.291	35.462	4.67	26.269	23.300
123.	25.670	35.490	4.65	25.643	23.516
148.	24.076	35.635*	4.42	24.045*	24.111*
173.	22.641	35.852	3.97	22.606	24.695
198.	21.633	35.830	3.92	21.594	24.964
249.	18.442	35.519*	4.07	18.398*	25.572*
298.	15.849	35.227	4.07	15.802	25.968
347.	13.123	34.992	3.98	13.075	26.372
396.	11.223	34.791	4.14	11.173	26.582
497.	7.927	34.491	3.90	7.876	26.893
595.	6.146	34.382	4.23	6.093	27.053
696.	5.559	34.426	3.68	5.500	27.161
796.	4.756	34.433	3.66	4.692	27.261
895.	4.223	34.478	3.44	4.154	27.355
994.	4.002	34.511	3.20	3.927	27.405
1243.	3.295	34.547	3.22	3.205	27.504
1492.	2.797	34.576	3.34	2.692	27.574
1743.	2.464	34.610	3.33	2.342	27.631
1993.	2.253	34.618	3.30	2.113	27.657

* Calculated from CTD values

CAST CG1-90-MB -004 LAT 18 00.2S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	27.582	35.410	4.81	27.581	22.842
19.	26.991	35.428	4.71	26.987	23.047
39.	26.509	35.441	4.77	26.500	23.211
58.	26.141	35.406	4.87	26.128	23.302
79.	25.946	35.448	4.77	25.928	23.396
99.	25.505	35.474	4.77	25.483	23.553
121.	24.786	35.699	4.72	24.760	23.944
148.	22.697	35.626	4.37	22.667	24.506
173.	21.997	35.734	4.23	21.963	24.788
198.	21.142	35.707	4.15	21.104	25.005
247.	19.047	35.601*	4.21	19.003*	25.481*
297.	16.824	35.354	3.97	16.775	25.840
347.	14.352	35.116	4.22	14.301	26.214
396.	11.954	34.833	4.03	11.902	26.479
496.	8.386	34.524	4.55	8.334	26.850
597.	6.801	34.393	4.89	6.745	26.976
796.	4.991	34.394	3.92	4.926	27.203
896.	4.369	34.439	3.72	4.299	27.308
994.	3.800	34.469	3.66	3.726	27.392
1243.	2.977	34.540	3.69	2.890	27.528
1496.	2.614	34.597	3.37	2.511	27.607
1743.	2.396	34.617	3.33	2.275	27.643
1994.	2.205	34.636	3.40	2.066	27.675

CAST CG1-90-MB -005 LAT 20 00.2S LONG 169 59.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	27.035	35.429	0.00	27.034	23.032
18.	27.015	35.428*	4.60	27.011*	23.039*
28.	26.835	35.424	4.59	26.829	23.094
38.	26.629	35.436	4.61	26.620	23.169
58.	26.352	35.445*	0.00	26.339*	23.265*
78.	25.694	35.447	4.64	25.677	23.473
98.	25.521	35.488	4.61	25.499	23.559
123.	24.680	35.643	4.48	24.654	23.934
148.	23.008	35.805	4.22	22.978	24.552

* Calculated from CTD values

CAST CG1-90-MB -007 LAT 20 00.7S LONG 169 59.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	27.185	35.434	4.88	27.184	22.988
246.	19.564	35.661	4.26	19.519	25.394
298.	17.489	35.472	4.29	17.439	25.772
298.	17.489	35.475	4.27	17.439	25.774
695.	5.954	34.335	4.83	5.893	27.041
795.	5.276	34.366	4.43	5.209	27.148
896.	4.706	34.406*	4.13	4.634*	27.246*
995.	4.190	34.402	3.83	4.113	27.299
1095.	3.663	34.404	3.83	3.582	27.354
1243.	3.072	34.529	3.63	2.984	27.511
1494.	2.641	34.589	3.40	2.538	27.598
1743.	2.409	34.614	3.41	2.288	27.639
1995.	2.219	34.632	3.42	2.080	27.671
2992.	1.774	34.670	3.52	1.552	27.742
3491.	1.567	34.686	3.76	1.300	27.773
3993.	1.274	34.722*	4.59	0.962*	27.825*
4496.	1.051	34.712	4.57	0.690	27.834

CAST CG1-90-MB -008 LAT 21 09.1S LONG 170 01.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2494.	1.948	34.656	3.37	1.769	27.714
2493.	1.949	34.658	3.30	1.770	27.716

CAST CG1-90-MB -009 LAT 21 59.5S LONG 169 59.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	26.024	35.146	4.89	26.023	23.138
19.	26.017	35.143*	0.00	26.013*	23.139*
39.	25.912	35.124	5.02	25.903	23.159
58.	23.632	35.290	5.47	23.620	23.975
99.	22.128	35.468	4.90	22.108	24.544
123.	21.425	35.580	4.71	21.401	24.827
148.	20.500	35.580	4.77	20.472	25.080
173.	20.129	35.680	4.29	20.097	25.256
198.	19.575	35.640	4.35	19.539	25.372
248.	18.431	35.623	4.57	18.388	25.654
298.	17.096	35.541	4.50	17.046	25.920
347.	15.799	35.433	4.51	15.744	26.140
397.	14.351	35.268	4.50	14.292	26.333
448.	12.602	35.023*	4.41	12.541*	26.503*
496.	11.076	34.835	4.44	11.014	26.645
596.	8.189	34.515	4.65	8.127	26.874
796.	5.675	34.347	4.76	5.606	27.086
896.	5.086	34.369	4.28	5.012	27.174
995.	4.566	34.386	4.13	4.487	27.246
1243.	3.260	34.494	3.80	3.171	27.465
1496.	2.624	34.578	0.00	2.521	27.591
1743.	2.392	34.621	0.00	2.271	27.646
1998.	2.216	34.633	3.35	2.076	27.672

* Calculated from CTD values

CAST CG1-90-MB -011 LAT 24 59.9S LONG 170 01.4W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
2494.	1.955	34.655	0.00	1.776	27.713		
2495.	1.955	34.656	0.00	1.776	27.714		
6.	24.652	35.344*	5.01	24.651*	23.709*		
19.	24.654	35.346	5.02	24.650	23.711		
27.	24.646	35.343*	0.00	24.640*	23.711*		
59.	23.439	35.372	5.08	23.427	24.093		
99.	20.428	35.611	4.88	20.409	25.120		
140.	19.372	35.641	4.61	19.347	25.423		
171.	18.598	35.628	4.52	18.568	25.612		
201.	17.620	35.546	4.38	17.586	25.793		
299.	15.248	35.370*	4.55	15.202*	26.213*		
398.	12.122	34.965*	4.40	12.069*	26.549*		
499.	9.315	34.648	4.65	9.259	26.801		
600.	7.393	34.451	5.11	7.334	26.940		

CAST CG1-90-MB -012 LAT 25 00.4S LONG 170 00.5W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
496.	8.857	34.612	0.00	8.803	26.846		
595.	7.567	34.472	5.06	7.508	26.932		
595.	7.567	34.469	4.99	7.508	26.929		
694.	6.680	34.390	5.15	6.615	26.991		
794.	6.020	34.350	5.02	5.949	27.046		
891.	5.378	34.332	4.75	5.302	27.111		
994.	4.888	34.349	4.40	4.806	27.181		
1244.	3.484	34.442	3.92	3.393	27.403		
1493.	2.826	34.542	3.62	2.721	27.545		
1743.	2.482	34.602	3.41	2.360	27.624		
1993.	2.287	34.628	3.32	2.147	27.662		
2494.	2.004	34.654	3.28	1.824	27.708		

CAST CG1-90-MB -013 LAT 25 01.3S LONG 170 00.9W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
695.	6.586	34.380*	4.97	6.521*	26.995*		
796.	5.809	34.345	4.59	5.739	27.068		
995.	4.494	34.357	4.24	4.415	27.231		
1243.	3.379	34.466	3.78	3.289	27.432		
1492.	2.682	34.562	3.57	2.578	27.573		
1995.	2.201	34.634	3.30	2.062	27.674		
2493.	1.939	34.654	3.37	1.760	27.713		
2996.	1.734	34.673	3.48	1.512	27.747		
3494.	1.564	34.702	4.23	1.297	27.786		
3998.	1.304	34.724	4.78	0.991	27.824		
4496.	1.087	34.715	4.82	0.725	27.834		
5054.	1.042	34.713	4.88	0.617	27.839		

* Calculated from CTD values

CAST CG1-90-MB -014 LAT 27 30.2S LONG 170 00.3W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
148.	17.703	35.602	4.57	17.678	25.814		
172.	17.061	35.553	4.49	17.032	25.932		
172.	17.061	35.554	4.48	17.032	25.933		
172.	17.061	35.554	4.49	17.032	25.933		
196.	16.380	35.477	4.38	16.348	26.035		
246.	15.485	35.414	4.42	15.447	26.193		
246.	15.485	35.415	4.39	15.447	26.193		
297.	14.097	35.261	4.44	14.054	26.378		
297.	14.097	35.262	4.36	14.054	26.379		
297.	14.097	35.263	4.36	14.054	26.380		
297.	14.097	35.263	4.38	14.054	26.380		
348.	12.492	35.046	4.34	12.445	26.539		

CAST CG1-90-MB -015 LAT 27 30.8S LONG 170 00.9W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
496.	8.857	34.612	0.00	8.803	26.846		
595.	7.567	34.472	5.06	7.508	26.932		
595.	7.567	34.469	4.99	7.508	26.929		
694.	6.680	34.390	5.15	6.615	26.991		
794.	6.020	34.350	5.02	5.949	27.046		
891.	5.378	34.332	4.75	5.302	27.111		
994.	4.888	34.349	4.40	4.806	27.181		
1244.	3.484	34.442	3.92	3.393	27.403		
1493.	2.826	34.542	3.62	2.721	27.545		
1743.	2.482	34.602	3.41	2.360	27.624		
1993.	2.287	34.628	3.32	2.147	27.662		
2494.	2.004	34.654	3.28	1.824	27.708		

CAST CG1-90-MB -016 LAT 30 00.3S LONG 170 00.8W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
4.	23.727	35.558	5.05	23.726	24.147		
21.	23.704	35.557*	0.00	23.700*	24.154*		
30.	23.686	35.566	4.98	23.680	24.166		
39.	23.637	35.573	4.95	23.629	24.187		
69.	20.310	35.599	5.53	20.297	25.141		
98.	18.539	35.607	5.49	18.522	25.608		
122.	17.053	35.574	4.97	17.033	25.948		
148.	16.291	35.511	4.57	16.267	26.080		
173.	15.646	35.448	4.50	15.619	26.180		
196.	15.182	35.399	4.48	15.152	26.247		
249.	14.097	35.273	4.58	14.061	26.386		
301.	12.784	35.094	4.49	12.743	26.518		

CAST CG1-90-MB -017 LAT 30 01.1S LONG 170 01.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
346.	11.630	34.931	4.38	11.586	26.614
395.	10.699	34.828	4.40	10.651	26.705
445.	9.951	34.736	4.47	9.899	26.763
496.	8.844	34.603	4.67	8.790	26.841
592.	7.403	34.460	5.02	7.345	26.945
694.	6.662	34.397	5.07	6.597	26.999
794.	5.976	34.351*	4.95	5.905*	27.052*
894.	5.329	34.339	4.70	5.253	27.122
994.	4.707	34.356	4.42	4.627	27.207
1095.	4.142	34.381	4.26	4.057	27.288
1244.	3.483	34.464	3.96	3.392	27.421
1506.	2.803	34.540	3.69	2.697	27.545

CAST CG1-90-MB -018 LAT 30 00.3S LONG 170 02.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1743.	2.450	34.597	3.50	2.329	27.622
1993.	2.246	34.633	3.44	2.106	27.669
2294.	2.077	34.648	3.34	1.914	27.696
2594.	1.942	34.660	3.34	1.754	27.718
2895.	1.832	34.669	3.40	1.618	27.736
3191.	1.715	34.675	3.60	1.475	27.751
3495.	1.605	34.713	4.19	1.336	27.792
3996.	1.262	34.724	4.60	0.950	27.827
4496.	1.057	34.715	4.72	0.696	27.836
4993.	1.019	34.712	4.74	0.602	27.839
5177.	1.032	34.719	4.74	0.592	27.846

CAST CG1-90-MB -019 LAT 32 31.0S LONG 169 59.9W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	22.079	35.677	5.25	22.078	24.712
19.	22.083	35.677	5.27	22.079	24.712
38.	22.086	35.676*	0.00	22.079*	24.711*
69.	18.966	35.488	5.93	18.954	25.407
98.	16.968	35.486	5.70	16.952	25.900
123.	15.862	35.418	5.49	15.843	26.106
149.	15.281	35.383	5.27	15.258	26.211
170.	14.742	35.316	5.11	14.716	26.279
197.	13.949	35.230	4.98	13.920	26.382
248.	12.600	35.082	4.90	12.567	26.543
298.	11.349	34.913	4.72	11.311	26.651
348.	10.343	34.788	4.67	10.302	26.735

* Calculated from CTD values

CAST CG1-90-MB -020 LAT 32 34.2S LONG 169 59.9W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
397.	9.542	34.692	4.82	9.497	26.796
446.	8.821	34.613	4.97	8.773	26.852
498.	8.171	34.544	5.14	8.119	26.898
548.	7.784	34.503	5.27	7.729	26.924
596.	7.478	34.472	5.31	7.419	26.944
698.	6.870	34.420	5.31	6.804	26.989
796.	6.292	34.372	5.27	6.219	27.029
895.	5.773	34.358	5.01	5.694	27.084
996.	5.107	34.352	4.76	5.023	27.159
1094.	4.568	34.356	4.59	4.480	27.223
1244.	3.766	34.405	4.26	3.672	27.346
1497.	2.927	34.521	3.89	2.820	27.519

CAST CG1-90-MB -021 LAT 32 33.2S LONG 170 03.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1742.	2.576	34.587	3.70	2.453	27.604
1743.	2.575	34.587	3.70	2.452	27.604
1993.	2.339	34.621	3.57	2.198	27.652
2294.	2.140	34.642	3.49	1.976	27.687
2592.	1.979	34.660	3.50	1.791	27.716
2895.	1.842	34.670	3.57	1.628	27.736
3191.	1.725	34.691	3.91	1.484	27.763
3496.	1.595	34.715	4.31	1.327	27.794
3997.	1.267	34.723	4.74	0.955	27.826
4497.	1.023	34.713	4.86	0.663	27.836
4998.	1.012	34.711	4.89	0.594	27.839
5298.	1.037	34.709	4.87	0.582	27.838

CAST CG1-90-MB -022 LAT 35 02.0S LONG 170 03.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	20.741	35.351	5.34	20.740	24.833
19.	20.739	35.355	5.33	20.735	24.837
39.	20.697	35.378	5.36	20.690	24.867
69.	17.908	35.384	5.98	17.896	25.593
98.	15.485	35.382	5.82	15.470	26.163
120.	14.808	35.325	5.57	14.790	26.269
148.	14.020	35.241	5.34	13.999	26.374
174.	13.027	35.106	5.18	13.003	26.475
198.	12.484	35.041	5.04	12.458	26.533
248.	11.505	34.919	5.06	11.474	26.626
299.	10.511	34.797	5.06	10.475	26.712
348.	9.471	34.660	5.19	9.432	26.782

CST CG1-90-MB -023 LAT 35 02.0S LONG 170 03.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
29.	20.663	35.382*	0.00	20.658*	24.879*
397.	8.788	34.597	5.36	8.745	26.843
446.	8.318	34.550	5.41	8.271	26.880
497.	7.879	34.509	5.54	7.829	26.914
596.	7.325	34.452	5.73	7.267	26.950
695.	6.793	34.406	5.80	6.727	26.988
797.	6.353	34.376	5.34	6.280	27.024
893.	5.762	34.358	5.04	5.683	27.085
996.	5.099	34.358	4.83	5.016	27.165
1095.	4.468	34.363	4.60	4.381	27.239
1244.	3.759	34.397	4.00	3.665	27.340
1496.	3.000	34.507	4.00	2.893	27.501

CST CG1-90-MB -024 LAT 35 01.4S LONG 170 00.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1742.	2.587	34.585	3.86	2.464	27.601
1994.	2.362	34.622	3.71	2.221	27.651
2294.	2.166	34.640	3.67	2.001	27.683
2597.	1.998	34.657*	3.64	1.809*	27.712*
2895.	1.864	34.667	3.73	1.649	27.732
3199.	1.746	34.683*	0.00	1.504*	27.755*
3498.	1.646	34.708	4.35	1.376	27.785
3999.	1.347	34.727	4.93	1.032	27.824
4500.	1.056	34.714	5.04	0.695	27.835
4999.	1.008	34.710	5.09	0.590	27.838
5276.	1.031	34.710	5.11	0.579	27.839

CST CG1-90-MB -025 LAT 37 30.6S LONG 170 01.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	19.622	35.191	5.66	19.621	25.008
17.	19.563	35.206	5.68	19.560	25.035
37.	19.486	35.253	5.66	19.479	25.092
68.	16.833	35.201	6.23	16.822	25.712
97.	13.445	34.930	6.55	13.431	26.252
121.	12.479	34.870	6.19	12.463	26.399
146.	12.080	34.847	6.01	12.061	26.459
198.	11.353	34.855*	5.77	11.328*	26.603*
246.	10.585	34.790	5.49	10.555	26.692
295.	9.646	34.680	5.43	9.612	26.768
348.	9.070	34.627	5.43	9.032	26.821
396.	8.521	34.556	5.76	8.479	26.853

* Calculated from CTD values

CST CG1-90-MB -026 LAT 37 32.6S LONG 170 02.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
495.	8.045	34.529*	5.51	7.994*	26.905*
596.	7.503	34.478	5.57	7.444	26.945
697.	7.036	34.445	5.48	6.969	26.986
796.	6.339	34.384	5.48	6.266	27.032
896.	5.833	34.377	5.22	5.754	27.091
998.	5.242	34.372	4.97	5.157	27.159
1095.	4.790	34.387	4.78	4.700	27.223
1243.	4.150	34.429	4.54	4.052	27.327
1488.	3.257	34.509	4.15	3.147	27.480
1735.	2.713	34.573	3.92	2.589	27.581
1989.	2.478	34.608	3.84	2.335	27.630
2498.	2.163	34.643	3.76	1.980	27.687

CST CG1-90-MB -027 LAT 40 00.0S LONG 170 00.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	17.404	34.966	6.29	17.404	25.393
19.	16.840	34.983	6.38	16.837	25.541
38.	16.706	34.960*	6.38	16.700*	25.555*
66.	14.077	35.175	6.10	14.067	26.309
98.	13.390	35.237	5.85	13.376	26.501
122.	12.974	35.171	5.96	12.957	26.535
147.	12.378	35.054	6.30	12.359	26.562
197.	11.956	34.997	6.39	11.930	26.601
247.	11.116	34.877	5.56	11.085	26.665
296.	10.128	34.753	5.61	10.093	26.744
346.	9.410	34.666	5.59	9.371	26.797
393.	8.832	34.586	4.82	8.790	26.828

CST CG1-90-MB -028 LAT 40 00.8S LONG 170 00.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
496.	8.111	34.515	6.10	8.060	26.884
595.	7.666	34.479	6.04	7.606	26.923
694.	7.257	34.445	6.00	7.189	26.956
796.	6.825	34.412	5.89	6.749	26.990
895.	6.279	34.391	5.64	6.197	27.046
993.	5.806	34.390	5.30	5.717	27.106
1093.	5.166	34.389	5.12	5.073	27.183
1243.	4.361	34.397	4.83	4.261	27.279
1493.	3.517	34.494	4.40	3.404	27.443
1745.	2.896	34.574	4.10	2.769	27.566
1994.	2.504	34.616	4.01	2.361	27.635
2295.	2.211	34.646	3.99	2.045	27.684

CAST CG1-90-MB -029 LAT 40 01.7S LONG 170 01.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2695.	1.902	34.695	4.46	1.705	27.750
2694.	1.903	34.696	4.44	1.706	27.751
3097.	1.654	34.728	4.97	1.424	27.797
3395.	1.426	34.735	5.13	1.172	27.821
3686.	1.224	34.710	5.29	0.946	27.816
3895.	1.101	34.717	5.31	0.804	27.831
4097.	1.013	34.715	5.34	0.697	27.836
4300.	0.952	34.710	5.38	0.616	27.837
4397.	0.938	34.711	5.38	0.592	27.839
4598.	0.917	34.708	5.41	0.549	27.839
4676.	0.915	34.713	5.37	0.538	27.844

CAST CG1-90-MB -030 LAT 40 59.8S LONG 170 28.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	17.574	35.078	6.21	17.573	25.437
29.	17.077	35.097*	0.00	17.072*	25.572*
98.	12.995	35.087	6.16	12.982	26.465
198.	12.239	35.040	6.33	12.213	26.580
396.	9.183	34.637	5.82	9.139	26.812
595.	7.885	34.506	5.88	7.824	26.912
795.	7.095	34.443	5.84	7.017	26.978
996.	6.001	34.404	5.34	5.911	27.093
1244.	4.629	34.424	4.81	4.527	27.272
1494.	3.577	34.428	4.42	3.463	27.385
1743.	2.930	34.574	4.17	2.802	27.563
1998.	2.531	34.615	4.02	2.387	27.632

CAST CG1-90-MB -031 LAT 40 58.1S LONG 170 29.0W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2196.	2.310	34.672	3.51	2.152	27.697
2595.	2.018	34.685	4.56	1.828	27.733
2992.	1.792	34.728	5.27	1.569	27.787
3196.	1.613	34.731	5.50	1.374	27.803
3396.	1.443	34.725	5.18	1.189	27.812
3595.	1.274	34.726	5.27	1.004	27.825
3798.	1.125	34.723*	5.34	0.838*	27.833*
3998.	1.019	34.718*	5.38	0.714*	27.837*
4138.	0.983	34.711	5.43	0.664	27.835
4238.	0.946	34.703	5.49	0.617	27.831
4343.	0.907	34.727	5.38	0.568	27.854

* Calculated from CTD values

CAST CG1-90-MB -032 LAT 41 29.4S LONG 170 43.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1993.	2.550	34.612	3.60	2.406	27.628
2191.	2.310	34.636	3.56	2.152	27.668
2393.	2.127	34.658	3.60	1.954	27.701
2591.	1.977	34.681	3.84	1.789	27.733
2795.	1.852	34.709	4.10	1.647	27.766
2997.	1.733	34.724	4.35	1.511	27.788
3096.	1.665	34.728	4.43	1.435	27.797
3197.	1.526	34.730	4.52	1.289	27.809
3299.	1.411	34.753	4.61	1.167	27.836
3344.	1.382	34.724	4.60	1.134	27.815
3400.	1.330	34.736	0.00	1.078	27.828

CAST CG1-90-MB -033 LAT 41 58.9S LONG 170 59.0W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1993.	2.531	34.620*	0.00	2.387*	27.636*
1993.	2.531	34.616	3.57	2.387	27.632
2193.	2.273	34.639	3.57	2.116	27.673
2400.	2.029	34.672	3.71	1.857	27.720
2493.	1.924	34.697	3.89	1.746	27.749
2593.	1.860	34.706	4.07	1.674	27.761
2694.	1.788	34.718	4.26	1.594	27.777
2794.	1.690	34.727	4.38	1.488	27.792
2894.	1.586	34.734	4.46	1.377	27.806
2894.	1.586	34.730	4.49	1.377	27.802
2973.	1.511	34.730	4.53	1.296	27.808

CAST CG1-90-MB -034 LAT 42 29.5S LONG 171 12.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	17.785	35.114	5.54	17.784	25.413
36.	17.326	35.140	5.54	17.320	25.546
68.	14.897	35.351	5.01	14.887	26.268
96.	14.064	35.285*	0.00	14.050*	26.388*
121.	13.769	35.254*	4.95	13.752*	26.436*
147.	13.478	35.253	5.13	13.457	26.496
197.	12.923	35.166	5.21	12.896	26.543
246.	12.080	35.020	5.08	12.048	26.596
295.	11.413	34.918	4.98	11.376	26.643
345.	10.763	34.837	4.90	10.721	26.699
397.	10.170	34.778	4.76	10.123	26.758

CAST CG1-90-MB -035 LAT 42 28.7S LONG 171 12.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
30.	17.384	35.133*	0.00	17.379*	25.527*
99.	14.233	35.300	5.12	14.219	26.373
595.	8.471	34.610	5.26	8.408	26.906
698.	7.910	34.554	4.76	7.838	26.948
794.	7.251	34.504	4.74	7.173	27.004
895.	6.679	34.474	4.64	6.594	27.060
995.	6.169	34.464	4.48	6.077	27.119
1098.	5.504	34.458	4.34	5.408	27.198
1244.	4.750	34.471	0.00	4.647	27.296
1495.	3.746	34.590	3.89	3.630	27.498
1837.	2.699	34.622	3.61	2.566	27.622

CAST CG1-90-MB -036 LAT 43 30.1S LONG 170 51.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
29.	14.797	34.684*	0.00	14.793*	25.774*
1797.	2.674	34.551	3.97	2.545	27.567
1996.	2.452	34.615	3.97	2.309	27.638
2197.	2.262	34.660	3.90	2.104	27.691
2393.	2.132	34.700	4.12	1.959	27.735
2497.	2.074	34.713	4.22	1.892	27.750
2595.	2.022	34.729	4.34	1.832	27.768
2699.	1.890	34.724	4.33	1.693	27.774
2801.	1.754	34.736	4.46	1.550	27.795
2860.	1.696	34.733	4.51	1.488	27.797
2918.	1.682	34.739	4.57	1.469	27.803

CAST CG1-90-MB -037 LAT 43 59.1S LONG 170 41.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2794.	1.926	34.734	4.38	1.719	27.780
2994.	1.786	34.735	4.50	1.563	27.793
3195.	1.584	34.734	4.59	1.346	27.808
3393.	1.421	34.730	4.62	1.167	27.817
3595.	1.262	34.726	4.64	0.992	27.826
3797.	1.127	34.720	4.75	0.840	27.831
3995.	1.011	34.714	4.80	0.706	27.835
4197.	0.957	34.714*	4.82	0.632*	27.839*
4396.	0.919	34.715	4.84	0.573	27.844
4498.	0.914	34.709	4.84	0.557	27.840
4646.	0.906	34.708	4.84	0.533	27.840

* Calculated from CTD values

CAST CG1-90-MB -038 LAT 44 22.2S LONG 170 19.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2994.	1.756	34.737	4.51	1.534	27.797
3295.	1.509	34.737	4.62	1.263	27.816
3596.	1.323	34.728	4.68	1.051	27.823
3893.	1.127	34.719	4.80	0.830	27.831
4199.	0.992	34.711	4.86	0.666	27.835
4500.	0.940	34.711	4.84	0.582	27.840
4697.	0.930	34.706	4.86	0.550	27.838
4897.	0.933	34.712	4.86	0.530	27.844
4998.	0.937	34.705	4.86	0.522	27.839
5099.	0.945	34.703	4.91	0.518	27.837
5184.	0.952	34.703	4.84	0.514	27.837

CAST CG1-90-MB -039 LAT 45 58.6S LONG 170 00.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	14.690	34.704	6.05	14.689	25.812
20.	14.684	34.706*	6.01	14.681*	25.815*
30.	14.423	34.716*	0.00	14.419*	25.880*
38.	14.377	34.717	5.94	14.371	25.890
70.	13.934	34.712	5.83	13.924	25.981
98.	11.647	34.854	5.69	11.635	26.545
123.	11.223	34.852	5.67	11.208	26.623
148.	10.808	34.795	5.72	10.790	26.654
198.	10.037	34.692	5.63	10.014	26.709
248.	9.409	34.633	5.81	9.381	26.769
299.	9.037	34.609	5.51	9.004	26.812
349.	8.707	34.578	5.50	8.670	26.840

CAST CG1-90-MB -040 LAT 46 03.2S LONG 170 00.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
398.	8.244	34.522	4.87	8.203	26.868
447.	8.003	34.494	5.72	7.957	26.883
497.	7.785	34.476	5.64	7.735	26.902
598.	7.445	34.444	5.66	7.386	26.927
696.	7.168	34.424	5.61	7.100	26.951
795.	6.764	34.404	5.39	6.689	26.992
893.	6.288	34.375	0.00	6.206	27.033
994.	5.716	34.356	5.46	5.628	27.090
1095.	5.153	34.383	4.86	5.060	27.179
1243.	4.331	34.362	4.64	4.232	27.254
1495.	3.448	34.437	4.21	3.336	27.404

CAST CG1-90-MB -041 LAT 46 02.7S LONG 170 00.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1996.	2.576	34.591	3.88	2.431	27.609
2496.	2.189	34.686	4.06	2.005	27.720
2993.	1.887	34.730	4.49	1.662	27.782
3496.	1.497	34.728	4.66	1.231	27.811
3999.	1.165	34.718	4.82	0.855	27.828
4400.	0.987	34.710	4.84	0.639	27.835
4800.	0.946	34.706	4.87	0.554	27.837
5001.	0.947	34.705	4.87	0.531	27.838
5101.	0.948	34.705	4.87	0.520	27.839
5200.	0.949	34.698	4.89	0.509	27.834
5273.	0.955	34.706	4.87	0.506	27.840

CAST CG1-90-MB -042 LAT 47 00.4S LONG 170 00.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2993.	1.875	34.736	4.51	1.650	27.787
2995.	1.876	34.735	4.49	1.651	27.786

CAST CG1-90-MB -043 LAT 48 00.3S LONG 169 59.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
3.	13.729	34.752	6.09	13.729	26.053
27.	13.658	34.746*	0.00	13.654*	26.064*
47.	13.540	34.740	5.99	13.533	26.084
97.	12.403	35.042	5.51	12.390	26.547
146.	11.557	34.913	5.56	11.538	26.609
196.	10.591	34.785	5.40	10.567	26.686
296.	9.153	34.603	5.74	9.121	26.788
395.	7.852	34.408	6.27	7.812	26.837
494.	7.702	34.420	6.00	7.653	26.870
595.	7.262	34.409	5.85	7.204	26.925
795.	6.736	34.383	5.76	6.661	26.979
995.	5.968	34.378	5.08	5.878	27.077

* Calculated from CTD values

CAST CG1-90-MB -044 LAT 48 01.3S LONG 169 54.9W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1498.	3.287	34.410	4.55	3.176	27.398
2003.	2.495	34.597	4.34	2.351	27.620
2496.	2.160	34.721	4.56	1.977	27.750
2998.	1.851	34.743	4.75	1.626	27.795
3497.	1.457	34.732	4.93	1.192	27.817
3992.	1.145	34.727	0.00	0.837	27.837
4501.	0.961	34.710	0.00	0.603	27.838
4801.	0.942	34.709	0.00	0.550	27.840
5001.	0.941	34.707	4.93	0.525	27.840
5099.	0.946	34.707	0.00	0.519	27.840
5204.	0.953	34.707	4.93	0.513	27.841

CAST CG1-90-MB -045 LAT 50 00.2S LONG 169 59.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
7.	12.565	34.500	6.33	12.564	26.092
20.	12.459	34.491	6.39	12.456	26.106
39.	12.186	34.451	6.35	12.181	26.129
69.	10.024	34.359	6.40	10.016	26.449
96.	8.712	34.444	6.10	8.702	26.730
123.	8.112	34.402	6.29	8.100	26.790
147.	7.804	34.362	6.31	7.789	26.804
199.	7.842	34.400	6.36	7.822	26.829
248.	7.715	34.396	6.38	7.691	26.845
297.	7.681	34.401	6.21	7.652	26.855
347.	7.398	34.384	6.11	7.364	26.883
399.	7.110	34.366	6.20	7.072	26.910

CAST CG1-90-MB -046 LAT 50 00.3S LONG 170 01.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
495.	6.889	34.388	5.09	6.842	26.958
595.	6.493	34.382	5.12	6.439	27.008
695.	5.894	34.369	4.98	5.833	27.075
795.	5.340	34.368	4.97	5.273	27.142
893.	4.575	34.342	4.97	4.504	27.209
993.	4.100	34.360	4.80	4.024	27.275
1094.	3.627	34.376	4.89	3.547	27.335
1243.	3.139	34.414	4.49	3.051	27.413
1493.	2.748	34.511	4.16	2.644	27.527
1743.	2.543	34.594	3.93	2.420	27.612
1994.	2.323	34.657	4.12	2.182	27.682
2395.	2.115	34.718	4.38	1.942	27.750

CAST CG1-90-MB -047 LAT 50 04.0S LONG 170 04.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2795.	1.840	34.740	4.56	1.635	27.792
3088.	1.610	34.740	4.62	1.382	27.810
3395.	1.373	34.731	4.75	1.120	27.821
3703.	1.202	34.724	4.83	0.922	27.829
3995.	1.070	34.717	4.86	0.764	27.833
4297.	0.967	34.718	4.91	0.631	27.842
4596.	0.932	34.709	4.93	0.564	27.839
4798.	0.932	34.711	4.97	0.540	27.842
5128.	0.951	34.707	4.97	0.520	27.840
5227.	0.961	34.709	4.97	0.518	27.842
5303.	0.969	34.708	4.93	0.516	27.841

CAST CG1-90-MB -048 LAT 51 59.6S LONG 169 59.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
7.	9.430	34.238	6.86	9.429	26.452
19.	9.404	34.237	6.84	9.402	26.456
48.	9.366	34.241	6.82	9.361	26.466
97.	8.886	34.216	6.86	8.876	26.524
149.	7.724	34.350	6.57	7.709	26.806
199.	7.465	34.348	6.59	7.446	26.843
298.	7.146	34.346	6.54	7.118	26.887
397.	6.893	34.353	6.31	6.856	26.929
497.	6.399	34.331	6.11	6.354	26.979
594.	5.917	34.327*	0.00	5.865*	27.038*
796.	4.768	34.320	5.42	4.705	27.170
996.	3.576	34.338	0.00	3.504	27.309

CAST CG1-90-MB -049 LAT 51 58.0S LONG 169 59.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1444.	2.711	34.509	4.38	2.611	27.528
1993.	2.291	34.676	4.36	2.151	27.700
2496.	2.009	34.735	4.61	1.829	27.773
2995.	1.647	34.742	4.79	1.427	27.808
3495.	1.307	34.727	4.95	1.046	27.823
3996.	1.047	34.716	5.08	0.741	27.834
4496.	0.923	34.708	5.10	0.566	27.838
4803.	0.920	34.708	5.13	0.528	27.841
5000.	0.934	34.714	5.10	0.519	27.846
5062.	0.938	34.708	5.04	0.515	27.841
5128.	0.941	34.708	5.17	0.510	27.842

* Calculated from CTD values

CAST CG1-90-MB -050 LAT 56 42.1S LONG 170 03.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	5.526	33.954	7.03	5.526	26.785
18.	5.473	33.954	7.04	5.472	26.791
48.	5.408	33.957	7.06	5.404	26.801
96.	5.412	33.957	7.15	5.404	26.801
146.	4.672	34.079	0.00	4.661	26.983
198.	4.289	34.090	6.58	4.275	27.034
296.	4.119	34.162	6.06	4.098	27.109
397.	3.630	34.199	5.73	3.603	27.189
496.	2.925	34.218	5.60	2.894	27.270
587.	2.969	34.302	5.01	2.931	27.334
794.	2.668	34.438	4.58	2.618	27.470
994.	2.419	34.535	4.34	2.356	27.570

CAST CG1-90-MB -051 LAT 56 46.1S LONG 170 04.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1494.	2.200	34.695	4.20	2.102	27.719
1734.	2.079	34.722	4.28	1.963	27.752
1995.	1.915	34.741	4.41	1.780	27.781
2496.	1.549	34.744	4.59	1.377	27.814
2995.	1.213	34.732	4.68	1.003	27.830
3495.	0.986	34.720	4.80	0.733	27.838
3991.	0.865	34.718	4.85	0.565	27.846
4498.	0.868	34.710	4.87	0.513	27.843
4595.	0.874	34.718	4.85	0.508	27.850
4697.	0.873	34.712	4.86	0.495	27.846
4767.	0.878	34.757	4.85	0.491	27.882

CAST CG1-90-MB -052 LAT 60 00.7S LONG 169 57.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
18.	3.788	34.002	7.24	3.787	27.014
48.	3.762	33.930*	7.22	3.759*	26.959*
98.	3.622	33.935	7.25	3.616	26.977
147.	2.480	34.009	6.94	2.472	27.140
196.	2.187	34.044	6.94	2.176	27.192
295.	1.967	34.110	6.52	1.951	27.262
396.	2.227	34.239	5.56	2.205	27.346
495.	2.213	34.342	4.93	2.185	27.430
594.	2.374	34.443	4.41	2.339	27.498
594.	2.374	34.441	4.43	2.339	27.496
792.	2.349	34.586	4.09	2.300	27.616

CAST CG1-90-MB -053 LAT 60 00.6S LONG 169 53.0W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1241.	2.170	34.692	4.24	2.091	27.718		
1495.	2.040	34.721	4.32	1.943	27.753		
1742.	1.867	34.733	4.45	1.753	27.777		
1993.	1.688	34.752	0.00	1.556	27.807		
2490.	1.339	34.733*	4.64	1.172*	27.819*		
2994.	1.066	34.724	4.76	0.859	27.833		
3394.	0.907	34.714	4.87	0.666	27.837		
3697.	0.830	34.718	4.89	0.561	27.847		
3997.	0.830	34.709	4.95	0.530	27.841		
4098.	0.836	34.710	0.00	0.525	27.842		
4174.	0.840	34.712	4.84	0.521	27.844		
CAST CG1-90-MB -054 LAT 55 59.5S LONG 174 14.2W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
29.	6.991	33.407	6.86	6.988	26.166		
48.	6.993	34.062	6.84	6.989	26.682		
99.	6.954	34.064	6.90	6.945	26.689		
148.	6.479	34.222	6.50	6.466	26.878		
197.	5.950	34.196	6.48	5.933	26.926		
297.	5.255	34.159	6.50	5.231	26.982		
397.	5.074	34.258	5.60	5.043	27.082		
495.	4.457	34.274	5.35	4.420	27.165		
495.	4.457	34.274	5.35	4.420	27.164		
595.	3.899	34.281	5.24	3.856	27.229		
799.	2.993	34.344	4.81	2.940	27.367		
995.	2.695	34.457	4.34	2.630	27.485		
CAST CG1-90-MB -055 LAT 55 59.8S LONG 174 10.1W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1245.	2.446	34.563	4.13	2.364	27.592		
1497.	2.298	34.651	4.20	2.198	27.676		
1745.	2.175	34.703	4.28	2.057	27.729		
1994.	2.036	34.728	4.43	1.899	27.762		
2492.	1.679	34.743	4.62	1.505	27.804		
2995.	1.328	34.732	4.72	1.115	27.822		
3494.	1.064	34.719	4.83	0.809	27.832		
3995.	0.914	34.712	4.91	0.612	27.839		
4502.	0.870	34.717	4.99	0.514	27.849		
4956.	0.882	34.706	5.08	0.474	27.842		
5028.	0.885	34.708	5.22	0.468	27.844		

* Calculated from CTD values

CAST CG1-90-MB -056 LAT 53 56.9S LONG 176 09.5W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1497.	2.546	34.538	4.16	2.444	27.565		
1747.	2.391	34.628	4.23	2.270	27.652		
1993.	2.255	34.686	4.23	2.115	27.711		
2497.	1.992	34.744	4.45	1.812	27.781		
2993.	1.607	34.741	4.62	1.388	27.810		
3497.	1.258	34.734	4.78	0.998	27.832		
3998.	1.083	34.718	4.85	0.776	27.833		
4501.	0.936	34.711	4.91	0.578	27.840		
4799.	0.914	34.709	4.94	0.523	27.842		
4950.	0.908	34.708	4.95	0.500	27.842		
5027.	0.903	34.708	4.94	0.486	27.843		
CAST CG1-90-MB -057 LAT 53 54.2S LONG 176 03.3W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
29.	9.101	34.211	6.55	9.098	26.485		
46.	8.915	34.196	6.57	8.910	26.503		
97.	8.703	34.191	6.60	8.693	26.533		
197.	7.609	34.376	6.29	7.590	26.844		
300.	6.837	34.314	6.23	6.809	26.905		
399.	6.260	34.278	6.19	6.225	26.954		
399.	6.260	34.279	6.19	6.225	26.954		
498.	5.814	34.279	5.84	5.771	27.012		
598.	5.321	34.301	5.48	5.272	27.090		
798.	4.241	34.314	5.08	4.181	27.222		
995.	3.290	34.334	4.89	3.221	27.333		
1241.	2.721	34.446	4.38	2.637	27.475		
CAST CG1-90-MB -058 LAT 50 30.3S LONG 179 23.7W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
6.	10.209	34.188	6.57	10.208	26.283		
48.	10.195	34.193	6.57	10.190	26.290		
97.	7.297	34.198	6.65	7.288	26.747		
196.	6.212	34.228	6.48	6.195	26.918		
296.	5.678	34.221	6.25	5.653	26.980		
396.	5.224	34.258*	5.69	5.192*	27.065*		
594.	4.017	34.298	5.20	3.974	27.230		
792.	3.114	34.365	4.76	3.061	27.373		
992.	2.706	34.466	4.38	2.641	27.491		
1240.	2.456	34.579	4.20	2.375	27.604		
1493.	2.312	34.656	4.38	2.212	27.679		

CAST CG1-90-MB -059 LAT 49 29.9S LONG 179 44.7E							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
5.	8.805	34.145	6.78	8.804	26.480		
47.	8.691	34.150	6.80	8.686	26.502		
99.	8.217	34.269	6.55	8.215	26.669		
199.	8.235	34.492	6.20	8.215	26.843		
396.	6.986	34.390	5.64	6.949	26.946		
597.	5.435	34.341	5.22	5.385	27.108		
795.	3.965	34.325	5.10	3.907	27.259		
995.	3.073	34.386	4.70	3.005	27.395		
1387.	2.517	34.561	4.20	2.424	27.585		
1895.	2.309	34.675	4.25	2.177	27.697		
1981.	2.286	34.681	4.24	2.147	27.704		

CAST CG1-90-MB -060 LAT 49 43.5S LONG 179 59.9W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1994.	2.090	34.723	4.43	1.952	27.754		
2191.	1.942	34.754	4.53	1.790	27.791		
2293.	1.892	34.742	4.54	1.732	27.786		
2397.	1.791	34.744	4.59	1.623	27.796		
2499.	1.752	34.744	4.63	1.576	27.799		
2594.	1.678	34.744	4.66	1.495	27.805		
2693.	1.664	34.744	4.70	1.472	27.807		
2793.	1.654	34.748	4.68	1.453	27.811		
2994.	1.642	34.748	4.67	1.422	27.814		
3080.	1.635	34.743	0.00	1.407	27.811		
3083.	1.635	34.744	4.81	1.407	27.812		

CAST CG1-90-MB -061 LAT 49 50.9S LONG 179 52.7W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1995.	2.085	34.723	4.53	1.947	27.754		
2394.	1.815	34.742	4.71	1.647	27.792		
2692.	1.626	34.743	0.00	1.435	27.809		
2996.	1.437	34.736	5.28	1.222	27.818		
3192.	1.340	34.735	4.79	1.108	27.825		
3395.	1.217	34.730	4.80	0.968	27.831		
3597.	1.152	34.724	4.89	0.885	27.831		
3796.	1.088	34.720	4.87	0.802	27.833		
3977.	1.069	34.722	4.92	0.764	27.837		
4052.	1.042	34.720	4.93	0.730	27.838		
4053.	1.047	34.719	4.91	0.735	27.837		

CAST CG1-90-MB -062 LAT 50 29.0S LONG 179 21.4W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1994.	2.060	34.727	4.79	1.923	27.759		
2394.	1.773	34.738	4.70	1.606	27.792		
2795.	1.464	34.734	4.81	1.267	27.813		
3093.	1.251	34.728	4.88	1.031	27.825		
3396.	1.083	34.719	4.89	0.837	27.830		
3698.	0.958	34.713	5.00	0.686	27.835		
3996.	0.860	34.708	5.08	0.559	27.839		
4198.	0.832	34.710	5.08	0.511	27.843		
4298.	0.826	34.707	5.09	0.494	27.842		
4458.	0.815	34.706	5.12	0.466	27.843		
4528.	0.816	34.712	5.12	0.459	27.848		

CAST CG2-90-MB -068 LAT 32 29.8S LONG 178 44.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	22.038	35.616	5.34	22.037	24.677
18.	22.036	35.616	5.43	22.032	24.678
37.	21.982	35.614	5.47	21.975	24.693
67.	18.957	35.445	6.22	18.945	25.377
98.	16.618	35.431	6.27	16.602	25.940
147.	14.401	35.336	5.16	14.379	26.367
196.	13.335	35.214	4.88	13.308	26.497
296.	11.632	34.992	4.78	11.594	26.660
396.	10.143	34.789	4.75	10.096	26.771
595.	7.931	34.558	4.95	7.870	26.946
794.	6.344	34.419	4.97	6.271	27.059
993.	5.107	34.393	4.61	5.024	27.191

CAST CG2-90-MB -069 LAT 32 29.3S LONG 178 46.0W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1244.	3.636	34.446	4.15	3.543	27.392
1494.	2.916	34.542	3.84	2.810	27.537
1744.	2.543	34.600	3.64	2.420	27.617
1992.	2.358	34.626	3.64	2.217	27.655
2194.	2.215	34.637	3.61	2.058	27.676
2394.	2.057	34.656	3.58	1.885	27.705
2494.	1.978	34.662	3.62	1.799	27.717
2595.	1.878	34.678	3.76	1.691	27.738
2794.	1.709	34.713	4.28	1.507	27.779
2907.	1.632	34.720	4.44	1.421	27.791
2968.	1.582	34.724	4.54	1.366	27.798

CAST CG2-90-MB -070 LAT 32 29.0S LONG 178 30.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	21.966	35.615	4.31	21.965	24.697
48.	21.924	35.608	5.32	21.915	24.705
97.	15.609	35.414	5.57	15.594	26.160
147.	14.207	35.318	5.10	14.186	26.394
197.	13.333	35.198	5.06	13.305	26.485
295.	11.416	34.960	4.87	11.379	26.676
396.	9.883	34.730*	4.72	9.837*	26.769*
596.	7.570	34.502	5.10	7.510	26.955
793.	6.113	34.402	4.95	6.042	27.075
995.	4.880	34.387	4.59	4.798	27.212
1245.	3.650	34.445	4.18	3.557	27.389

CAST CG2-90-MB -065 LAT 34 38.9S LONG 178 38.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2991.	1.819	34.706	4.07	1.596	27.767
2992.	1.817	34.705	4.07	1.594	27.767
2992.	1.816	34.702	4.08	1.593	27.764
2992.	1.816	34.702	4.08	1.593	27.764
2992.	1.815	34.703	4.10	1.592	27.765
2992.	1.814	34.703	4.09	1.591	27.765
2993.	1.813	34.703	4.10	1.590	27.765
2994.	1.809	34.703	4.11	1.586	27.766
2993.	1.811	34.713	4.15	1.588	27.773
2994.	1.809	34.706	4.24	1.586	27.768
2994.	1.809	34.707	4.27	1.586	27.769
2995.	1.810	34.712	4.29	1.587	27.773

CAST CG2-90-MB -066 LAT 32 29.8S LONG 178 18.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1994.	2.383	34.620	2.58	2.241	27.648
2494.	2.057	34.654	2.71	1.876	27.704
2893.	1.800	34.690	2.79	1.587	27.755
3296.	1.566	34.724	3.51	1.319	27.802
3696.	1.276	34.725	0.00	0.995	27.825
3994.	1.102	34.717	3.56	0.795	27.831
4299.	1.013	34.713	4.17	0.675	27.836
4598.	0.998	34.711	3.17	0.627	27.837
4798.	1.010	34.713	4.50	0.616	27.839
4991.	1.023	34.717	4.06	0.606	27.843
5061.	1.027	34.711	4.18	0.601	27.839

CAST CG2-90-MB -067 LAT 32 30.6S LONG 178 31.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1994.	2.351	34.624	2.93	2.210	27.654
2244.	2.200	34.640	2.41	2.039	27.680
2494.	2.027	34.657	2.45	1.847	27.709
2745.	1.888	34.671	2.67	1.687	27.732
2994.	1.777	34.701	3.24	1.554	27.766
3196.	1.664	34.502*	3.32	1.425*	27.616*
3396.	1.478	34.726	3.51	1.223	27.810
3596.	1.311	34.726	2.79	1.040	27.823
3797.	1.196	34.722	3.82	0.907	27.828
4126.	1.111	34.717	2.69	0.789	27.832
4212.	1.117	34.717	3.34	0.786	27.832

* Calculated from CTD values

CAST CG2-90-MB -074 LAT 32 29.0S LONG 175 29.0W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	21.958	35.667	5.52	21.957	24.738
49.	21.915	35.661	5.52	21.905	24.748
98.	16.269	35.490	5.72	16.253	26.067
146.	15.188	35.431	5.26	15.166	26.269
196.	13.923	35.278	5.20	13.895	26.425
295.	12.009	35.014	5.12	11.970	26.606
396.	10.416	34.803	4.89	10.369	26.735
595.	7.642	34.490	5.52	7.582	26.935
795.	6.392	34.388	5.45	6.319	27.028
995.	5.150	34.390	5.00	5.066	27.184
1244.	3.727	34.434	4.61	3.633	27.373
1494.	2.977	34.534*	4.02	2.870*	27.525*

CAST CG2-90-MB -075 LAT 32 29.4S LONG 175 30.1W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1994.	2.414	34.615	3.74	2.272	27.641
2501.	2.103	34.648	4.68	1.921	27.696
2994.	1.824	34.685	4.02	1.601	27.750
3496.	1.520	34.728	4.85	1.253	27.810
3996.	1.132	34.719	5.04	0.824	27.831
4396.	1.069	34.715	5.08	0.719	27.835
4796.	1.029	34.714	5.12	0.634	27.839
4996.	1.031	34.714	5.16	0.613	27.840
5197.	1.043	34.714	5.16	0.600	27.841
5454.	1.058	34.711	5.13	0.583	27.840
5524.	1.067	34.718	5.12	0.583	27.845

CAST CG2-90-MB -076 LAT 32 28.8S LONG 171 28.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1993.	2.342	34.621	3.94	2.201	27.652
2506.	2.012	34.656	3.88	1.831	27.709
2994.	1.819	34.676	4.04	1.596	27.743
3295.	1.685	34.707	4.28	1.435	27.780
3595.	1.532	34.721	4.71	1.255	27.804
3904.	1.303	34.723	4.93	1.000	27.823
4196.	1.139	34.720	5.06	0.809	27.833
4497.	1.039	34.714	5.11	0.678	27.836
4798.	1.004	34.711	5.16	0.610	27.838
5158.	1.018	34.711	5.14	0.581	27.840
5231.	1.023	34.711	5.13	0.577	27.840

CAST CG2-90-MB -071 LAT 32 29.6S LONG 178 17.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
4.	21.951	35.617	5.40	21.950	24.702
48.	21.955	35.616*	5.41	21.945*	24.703*
98.	16.025	35.476	5.32	16.009	26.113
147.	14.624	35.355	5.08	14.602	26.333
197.	13.490	35.223	5.09	13.462	26.472
295.	11.691	34.990	5.17	11.653	26.648
396.	10.366	34.824	4.75	10.319	26.760
591.	8.050	34.567	4.93	7.989	26.936
793.	6.526	34.435	4.99	6.452	27.048
995.	5.387	34.410	4.63	5.301	27.172
1246.	3.798	34.434	4.19	3.704	27.366
1494.	2.966	34.535	3.88	2.859	27.527

CAST CG2-90-MB -072 LAT 32 29.5S LONG 178 00.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	21.728	35.594	4.60	21.727	24.747
47.	21.718	35.593	4.51	21.709	24.751
98.	15.714	35.444	4.63	15.699	26.159
149.	14.352	35.328	4.15	14.330	26.371
197.	13.561	35.236	3.84	13.533	26.468
297.	11.869	35.026	3.66	11.830	26.642
397.	10.720	34.865	3.94	10.671	26.730
596.	8.220	34.577	4.42	8.158	26.918
795.	6.900	34.467	3.91	6.824	27.023
994.	5.441	34.394	4.29	5.355	27.153
1244.	3.929	34.419	3.98	3.833	27.341
1495.	3.042	34.519	2.78	2.934	27.507

CAST CG2-90-MB -073 LAT 32 30.6S LONG 177 59.9W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1993.	2.414	34.615*	0.00	2.272*	27.641*
2494.	2.105	34.649*	3.48	1.923*	27.697*
2994.	1.748	34.707	3.84	1.526	27.773
3496.	1.418	34.726	4.06	1.154	27.815
3996.	1.121	34.724	4.24	0.813	27.836
4403.	1.028	34.714*	4.39	0.678*	27.836*
4798.	1.015	34.714	3.84	0.621	27.840
5198.	1.035	34.709	4.15	0.592	27.838
5498.	1.062	34.707	4.51	0.581	27.837
5903.	1.103	34.708	4.67	0.569	27.838
5973.	1.112	34.709	4.47	0.569	27.839

* Calculated from CTD values

CAST CG2-90-MB -077 LAT 30 00.0S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
496.	8.639	34.578	4.33	8.586	26.853
594.	7.532	34.470*	3.72	7.473*	26.935*
796.	6.110	34.360	4.23	6.038	27.042
994.	4.918	34.347	4.08	4.836	27.176
1243.	3.652	34.415	3.45	3.559	27.365
1493.	2.868	34.525	2.83	2.762	27.527
3494.	1.615	34.708	3.29	1.346	27.787
3994.	1.314	34.724	3.58	1.001	27.824
4497.	1.057	34.713	4.31	0.696	27.834
4996.	1.021	34.714	3.91	0.603	27.841
5502.	1.069	34.715	4.12	0.588	27.843

CAST CG2-90-MB -078 LAT 24 58.6S LONG 170 01.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
7.	25.010	35.353	4.15	25.009	23.607
17.	24.999	35.351	4.00	24.995	23.610
38.	24.944	35.355	3.80	24.936	23.631
67.	24.304	35.383	3.68	24.290	23.847
98.	20.766	35.594	3.80	20.747	25.016
122.	19.759	35.619	3.54	19.737	25.305
149.	19.132	35.638	3.90	19.105	25.483
196.	17.938	35.592	3.19	17.904	25.750
246.	16.730	35.502	3.66	16.690	25.974
295.	15.497	35.375	3.30	15.451	26.162
344.	14.106	35.230	3.21	14.056	26.354
396.	12.245	34.986	3.62	12.192	26.542

CAST CG2-90-MB -079 LAT 24 58.9S LONG 170 01.0W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
494.	9.257	34.627	3.66	9.202	26.794
594.	7.583	34.464	4.04	7.524	26.923
693.	6.528	34.376	4.62	6.464	27.000
795.	5.809	34.342	3.73	5.739	27.065
894.	5.231	34.342	3.89	5.156	27.136
994.	4.619	34.370	3.86	4.539	27.228
1094.	4.051	34.402	3.26	3.967	27.314
1242.	3.407	34.468	3.21	3.316	27.431
1492.	2.739	34.558	2.66	2.635	27.565
1742.	2.420	34.610	2.67	2.299	27.635
1980.	2.241	34.630	2.97	2.103	27.667
2247.	2.066	34.648	2.89	1.907	27.697

* Calculated from CTD values

CAST CG2-90-MB -080 LAT 25 01.2S LONG 170 01.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2494.	1.989	34.651	3.74	1.809	27.707
2743.	1.867	34.671	3.78	1.667	27.734
2997.	1.767	34.680	3.84	1.545	27.750
3246.	1.659	34.680	4.01	1.415	27.760
3498.	1.532	34.704	4.55	1.265	27.789
3748.	1.432	34.720	4.96	1.142	27.811
3999.	1.280	34.720	5.11	0.967	27.823
4496.	1.096	34.715	5.25	0.734	27.834
4998.	1.042	34.711	5.29	0.623	27.837
5497.	1.081	34.710	5.28	0.600	27.838
5803.	1.116	34.710	5.29	0.595	27.838

CAST CG2-90-MB -081 LAT 22 29.8S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	25.564	35.199*	3.82	25.563*	23.321*
19.	25.564	35.198	4.25	25.560	23.321
38.	25.554	35.198	3.67	25.546	23.326
69.	25.143	35.206	4.43	25.128	23.460
98.	21.877	35.508	3.57	21.858	24.645
120.	21.227	35.609	3.70	21.204	24.903
145.	20.451	35.659	4.55	20.424	25.153
196.	18.995	35.616	3.12	18.960	25.504
247.	17.553	35.528	3.10	17.511	25.798
296.	16.420	35.477	3.38	16.372	26.029
394.	13.165	35.119	3.13	13.110	26.464
495.	10.199	34.765	3.51	10.140	26.745

CAST CG2-90-MB -082 LAT 22 30.4S LONG 170 00.5W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
596.	7.607	34.455	4.79	7.547	26.912
695.	6.425	34.368	3.73	6.361	27.007
794.	5.664	34.344	4.59	5.595	27.085
993.	4.316	34.392	3.11	4.239	27.278
1243.	3.238	34.500	2.71	3.149	27.472
1494.	2.698	34.576	3.05	2.594	27.583
1742.	2.457	34.612	3.68	2.336	27.634
1993.	2.259	34.629*	3.07	2.119*	27.665*
2242.	2.100	34.642	2.65	1.941	27.690
2495.	1.951	34.657	2.70	1.772	27.715
2744.	1.841	34.661	2.37	1.641	27.728
2993.	1.752	34.674	2.79	1.530	27.746

CAST CG2-90-MB -083 LAT 20 00.4S LONG 170 00.4W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
6.	27.176	35.579	4.80	27.175	23.100		
18.	27.179	35.574	4.71	27.175	23.096		
38.	27.186	35.576	4.69	27.177	23.097		
67.	27.179	35.576	4.82	27.163	23.101		
97.	25.510	35.739	4.86	25.489	23.752		
122.	23.939	35.742	4.57	23.913	24.231		
148.	22.651	35.718	4.41	22.621	24.589		
196.	21.032	35.764	4.19	20.994	25.079		
247.	19.378	35.641	4.19	19.333	25.427		
296.	17.523	35.486	4.37	17.473	25.775		
346.	16.088	35.362	4.49	16.033	26.020		
396.	14.299	35.149	4.94	14.240	26.252		
CAST CG2-90-MB -084 LAT 20 00.9S LONG 170 00.0W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
495.	9.526	34.628	4.41	9.470	26.751		
594.	6.936	34.399	4.39	6.880	26.962		
695.	5.878	34.355	4.56	5.817	27.066		
795.	5.195	34.363	4.21	5.129	27.155		
894.	4.656	34.412	3.94	4.585	27.256		
994.	4.101	34.445	3.89	4.025	27.342		
1094.	3.577	34.479	3.87	3.497	27.422		
1246.	2.990	34.525	3.68	2.903	27.515		
1493.	2.592	34.593	3.42	2.489	27.605		
1745.	2.398	34.616	3.37	2.277	27.642		
1996.	2.224	34.639	3.38	2.084	27.676		
2244.	2.065	34.646	3.42	1.907	27.695		
CAST CG2-90-MB -085 LAT 20 01.5S LONG 170 00.8W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
2494.	1.927	34.657	2.81	1.749	27.716		
2744.	1.817	34.665	2.59	1.618	27.733		
2994.	1.714	34.671	2.89	1.493	27.747		
3395.	1.554	34.688	3.02	1.297	27.774		
3599.	1.448	34.707	3.07	1.173	27.798		
3802.	1.328	34.720*	4.48	1.035*	27.818*		
3996.	1.216	34.715	3.90	0.905	27.823		
4497.	1.036	34.721	3.36	0.676	27.842		
4898.	1.024	34.703	3.76	0.618	27.831		
5198.	1.051	34.705	3.48	0.608	27.833		
5470.	1.079	34.715	3.09	0.601	27.842		

* Calculated from CTD values

CAST CG2-90-MB -086 LAT 17 29.5S LONG 170 00.3W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
5.	27.566	35.579	4.70	27.565	22.974		
18.	27.565	35.579	4.77	27.561	22.975		
39.	27.572	35.578	4.76	27.563	22.974		
66.	27.127	35.637	4.83	27.112	23.164		
99.	24.656	35.672	4.82	24.635	23.962		
147.	22.429	35.875	4.29	22.399	24.771		
197.	20.860	35.827	4.15	20.822	25.173		
245.	19.458	35.653	4.22	19.413	25.415		
346.	14.607	35.077	4.06	14.555	26.129		
395.	11.982	34.810	4.04	11.930	26.455		
495.	8.056	34.473	4.08	8.005	26.859		
595.	6.334	34.368	4.66	6.280	27.017		
CAST CG2-90-MB -087 LAT 15 00.2S LONG 170 00.6W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
4.	28.491	35.155	3.78	28.490	22.352		
19.	28.622	35.410	3.86	28.617	22.502		
36.	28.545	35.411	4.06	28.536	22.529		
68.	27.968	35.568	3.68	27.952	22.840		
98.	27.112	35.950	3.83	27.089	23.407		
122.	26.360	36.037	3.66	26.332	23.713		
147.	25.077	36.203	2.85	25.045	24.239		
197.	22.791	36.133	2.65	22.751	24.867		
247.	19.887	35.745	2.66	19.841	25.373		
297.	16.286	35.252	2.40	16.238	25.888		
346.	13.023	34.878	2.51	12.975	26.304		
394.	10.293	34.649	1.86	10.246	26.636		
CAST CG2-90-MB -088 LAT 14 58.7S LONG 170 02.9W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
445.	8.768	34.561	2.92	8.720	26.819		
496.	7.810	34.519	3.11	7.760	26.932		
595.	6.177	34.464	3.26	6.124	27.113		
694.	5.453	34.476	3.24	5.394	27.214		
794.	4.882	34.477	3.45	4.818	27.282		
892.	4.493	34.496	3.18	4.423	27.340		
993.	4.164	34.508	3.05	4.088	27.386		
1093.	3.850	34.524	2.76	3.768	27.431		
1243.	3.314	34.559*	3.11	3.224*	27.512*		
1492.	2.808	34.587	3.28	2.703	27.582		
1750.	2.456	34.612	3.33	2.334	27.634		

CAST CG2-90-MB -089 LAT 15 00.3S LONG 170 00.4W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
2245.	2.002	34.653	3.52	1.844	27.706		
2493.	1.892	34.664	3.55	1.714	27.725		
2744.	1.790	34.672	3.65	1.591	27.740		
2995.	1.716	34.678	3.83	1.495	27.752		
3394.	1.592	34.687	3.78	1.334	27.771		
3803.	1.422	34.702	4.15	1.126	27.797		
3999.	1.288	34.712	4.48	0.975	27.816		
4197.	1.169	34.714	4.67	0.838	27.826		
4499.	1.059	34.716	4.76	0.698	27.837		
4697.	1.044	34.717	4.79	0.660	27.840		
4873.	1.043	34.710	4.81	0.639	27.835		

CAST CG2-90-MB -090 LAT 11 26.4S LONG 169 36.5W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1243.	3.591	34.558*	0.00	3.498*	27.485*		
1243.	3.592	34.557*	0.00	3.499*	27.484*		
1243.	3.591	34.556	0.00	3.498	27.484		
1244.	3.592	34.555*	0.00	3.499*	27.483*		
1244.	3.591	34.555	0.00	3.498	27.483		
1245.	3.590	34.558*	0.00	3.497*	27.485*		
1244.	3.591	34.556	0.00	3.498	27.484		
1245.	3.590	34.557*	0.00	3.497*	27.484*		
1245.	3.591	34.555	0.00	3.498	27.483		
1244.	3.591	34.556*	0.00	3.498*	27.484*		
1244.	3.590	34.556	0.00	3.497	27.484		
1245.	3.590	34.557*	0.00	3.497*	27.484*		

CAST CG2-90-MB -091 LAT 10 06.1S LONG 169 30.2W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1994.	2.151	34.645	3.31	2.013	27.686		
2494.	1.848	34.669	3.48	1.671	27.732		
2994.	1.636	34.682	3.51	1.417	27.761		
3395.	1.564	34.686	3.72	1.307	27.772		
3796.	1.472	34.692	3.91	1.176	27.786		
4196.	1.298	34.707	4.48	0.963	27.812		
4598.	1.080	34.712	4.76	0.707	27.833		
4794.	1.066	34.711	4.81	0.671	27.834		
4999.	1.082	34.720	4.80	0.662	27.842		
5301.	1.113	34.712	4.82	0.655	27.836		
5302.	1.113	34.712	4.82	0.655	27.836		

* Calculated from CTD values

CAST CG2-90-MB -092 LAT 10 05.4S LONG 169 59.5W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
6.	28.695	34.784	4.76	28.694	22.006		
39.	28.622	34.950	4.43	28.613	22.158		
98.	28.083	35.431	4.76	28.060	22.701		
198.	21.809	35.941	3.35	21.770	24.999		
294.	13.696	34.781	2.64	13.654	26.091		
397.	8.719	34.630	2.48	8.676	26.880		
494.	7.274	34.562	2.74	7.226	27.042		
595.	6.330	34.530	2.70	6.276	27.146		
793.	5.108	34.520	2.65	5.042	27.290		
993.	4.428	34.528	2.46	4.350	27.374		
1245.	3.552	34.561	2.89	3.460	27.491		
1496.	2.866	34.602	3.11	2.760	27.589		

CAST CG2-90-MB -093 LAT 10 05.5S LONG 170 00.0W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1995.	2.159	34.640	3.20	2.021	27.682		
2495.	1.829	34.666	3.11	1.652	27.731		
2983.	1.651	34.680	3.44	1.432	27.758		
3397.	1.570	34.686	3.62	1.313	27.772		
3796.	1.486	34.691	3.43	1.189	27.784		
4198.	1.227	34.711	4.46	0.894	27.820		
4598.	1.051	34.712	4.84	0.679	27.835		
4798.	1.050	34.713	4.86	0.655	27.837		
5158.	1.088	34.711	4.92	0.648	27.836		
5226.	1.097	34.714	4.98	0.649	27.838		
5230.	1.097	34.713	5.25	0.648	27.837		

CAST CG2-90-MB -094 LAT 10 05.3S LONG 170 14.9W							
PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH		
1993.	2.162	34.644	2.96	2.024	27.685		
2494.	1.829	34.667	2.92	1.652	27.732		
2995.	1.658	34.682	3.52	1.438	27.759		
3395.	1.559	34.684	3.48	1.302	27.771		
3796.	1.452	34.695	3.83	1.156	27.790		
4196.	1.138	34.712	4.57	0.808	27.826		
4598.	1.075	34.712	4.56	0.702	27.833		
4799.	1.064	34.712	4.70	0.668	27.835		
5043.	1.085	34.719	4.63	0.659	27.841		
5107.	1.093	34.712	4.63	0.659	27.836		
5111.	1.094	34.713	4.43	0.660	27.837		

CAST CG2-90-MB -095 LAT 09 29.5S LONG 170 12.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1490.	2.894	34.596	0.00	2.788	27.582
1491.	2.882	34.596	0.00	2.776	27.583
1490.	2.889	34.600*	0.00	2.783*	27.585*
1492.	2.885	34.594	0.00	2.779	27.581
1492.	2.883	34.594	0.00	2.777	27.581
1492.	2.882	34.595	0.00	2.776	27.582
1492.	2.888	34.597	0.00	2.782	27.583
1492.	2.890	34.598	0.00	2.784	27.584
1492.	2.885	34.591	0.00	2.779	27.579
1493.	2.883	34.596	0.00	2.777	27.583
1492.	2.886	34.596	0.00	2.780	27.583
1493.	2.884	34.615	0.00	2.778	27.598

CAST CG2-90-MB -096 LAT 05 00.1S LONG 170 00.8W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	29.047	35.531	3.81	29.046	22.450
18.	29.006	35.534	4.26	29.002	22.467
36.	28.991	35.536	4.67	28.982	22.475
68.	28.855	35.547	4.50	28.839	22.531
99.	28.305	35.696	3.96	28.282	22.828
123.	28.187	35.715	4.26	28.158	22.883
147.	27.072	35.801	3.83	27.038	23.311
198.	20.628	35.842	2.75	20.590	25.248
248.	14.057	35.098	1.51	14.021	26.259
296.	11.581	34.861	1.21	11.543	26.568
347.	10.242	34.764	1.25	10.201	26.734
397.	9.410	34.710	1.20	9.365	26.832

CAST CG2-90-MB -097 LAT 05 01.5S LONG 170 03.7W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
446.	8.644	34.666	1.04	8.596	26.921
494.	8.305	34.648	1.24	8.253	26.959
595.	7.473	34.604	1.44	7.414	27.049
695.	6.498	34.562	1.74	6.434	27.151
795.	5.855	34.542	2.18	5.785	27.218
896.	5.226	34.537	2.08	5.150	27.291
992.	4.708	34.541*	2.37	4.628*	27.354*
1094.	4.208	34.556	2.40	4.123	27.420
1241.	3.616	34.576	2.40	3.523	27.497
1494.	2.924	34.612	2.59	2.817	27.592
1743.	2.496	34.632	2.69	2.374	27.646
1994.	2.206	34.647	2.42	2.067	27.684

* Calculated from CTD values

CAST CG2-90-MB -098 LAT 05 00.8S LONG 170 01.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2243.	2.074	34.653	2.96	1.915	27.700
2544.	1.896	34.664	3.16	1.714	27.725
2740.	1.805	34.678	3.29	1.606	27.744
2993.	1.683	34.677	3.48	1.463	27.754
3395.	1.555	34.685	3.62	1.298	27.772
3799.	1.467	34.692	3.87	1.171	27.786
4197.	1.369	34.701	4.09	1.032	27.803
4397.	1.323	34.703	4.26	0.965	27.809
4595.	1.256	34.708	4.51	0.878	27.819
4993.	1.198	34.712	4.70	0.775	27.829
5481.	1.246	34.711	4.70	0.761	27.829

CAST CG2-90-MB -099 LAT 02 00.3S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	28.331	35.366	4.17	28.329	22.564
17.	28.335	35.367	5.15	28.331	22.564
36.	28.310	35.366	4.11	28.301	22.573
68.	27.932	35.494	4.67	27.916	22.796
96.	27.458	35.576	4.16	27.436	23.014
124.	26.967	35.592	4.03	26.938	23.186
146.	24.455	35.781	3.69	24.424	24.108
198.	16.596	35.338	2.19	16.564	25.878
297.	10.643	34.769*	0.00	10.607*	26.668*
494.	8.434	34.693*	1.34	8.382*	26.975*
695.	6.141	34.558	1.69	6.079	27.194
994.	4.421	34.560	2.18	4.343	27.400

CAST CG2-90-MB -100 LAT 00 59.7S LONG 170 01.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	28.212	35.367	4.97	28.211	22.604
20.	28.103	35.364	4.95	28.098	22.638
40.	28.081	35.365	4.93	28.072	22.648
68.	28.058	35.370	4.88	28.042	22.661
99.	27.632	35.465	4.75	27.609	22.874
122.	26.731	35.571	4.43	26.703	23.245
148.	21.166	35.470	3.34	21.138	24.816
196.	15.655	35.167	3.26	15.624	25.962
297.	11.268	34.807	1.82	11.231	26.584
498.	8.174	34.627	1.90	8.122	26.963
694.	6.078	34.557	1.84	6.016	27.201
994.	4.608	34.556	2.23	4.528	27.377

CAST CG2-90-MB -101 LAT 00 29.9S LONG 170 00.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
7.	28.208	35.386	5.02	28.206	22.619
18.	28.127	35.384	5.08	28.123	22.645
39.	28.082	35.382	5.03	28.073	22.660
68.	28.048	35.380	4.96	28.032	22.672
98.	27.552	35.498	4.71	27.529	22.925
122.	26.182	35.572	4.26	26.155	23.419
147.	21.518	35.362	3.39	21.489	24.637
197.	14.978	35.052	3.24	14.948	26.024
247.	12.432	34.914	2.91	12.399	26.446
346.	10.389	34.762*	1.30	10.348*	26.707*
497.	8.377	34.641	1.19	8.325	26.943
994.	4.407	34.562	2.25	4.329	27.403

CAST CG2-90-MB -102 LAT 00 00.0S LONG 170 01.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
446.	8.445	34.643	1.21	8.398	26.933
495.	8.205	34.633	1.25	8.153	26.963
596.	6.684	34.571	1.62	6.628	27.132
696.	5.933	34.560*	1.91	5.872*	27.221*
796.	5.464	34.532*	2.10	5.396*	27.258*
894.	4.998	34.550	2.23	4.924	27.327
993.	4.420	34.559	2.23	4.342	27.399
1093.	4.008	34.569	2.31	3.924	27.451
1243.	3.489	34.588	2.18	3.397	27.519
1494.	2.927	34.610	2.44	2.820	27.590
1745.	2.488	34.630	2.51	2.366	27.645
1993.	2.193	34.646	2.68	2.054	27.684

CAST CG2-90-MB -103 LAT 00 00.7N LONG 170 00.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	28.028	35.391	4.93	28.027	22.682
19.	28.030	35.396	4.99	28.026	22.686
38.	27.980	35.391	4.86	27.971	22.700
67.	27.949	35.390	4.96	27.933	22.712
98.	27.712	35.408	4.81	27.689	22.805
121.	27.195	35.550	4.50	27.167	23.081
148.	21.048	35.266	3.50	21.020	24.692
196.	15.572	35.120	3.55	15.542	25.945
247.	12.995	34.888	3.24	12.961	26.315
297.	11.747	34.836	2.38	11.709	26.517
346.	10.276	34.745	1.25	10.235	26.713
395.	9.906	34.725	1.45	9.860	26.761

* Calculated from CTD values

CAST CG2-90-MB -105 LAT 00 00.0S LONG 170 00.2W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
2244.	1.970	34.656	2.85	1.813	27.711
2493.	1.875	34.666	2.95	1.698	27.728
2745.	1.736	34.669	3.17	1.538	27.742
2997.	1.633	34.677	3.34	1.414	27.757
3496.	1.537	34.683	3.60	1.270	27.772
4000.	1.398	34.694	3.99	1.082	27.794
4298.	1.328	34.698	4.21	0.981	27.804
4600.	1.256	34.705	4.48	0.877	27.816
4899.	1.245	34.706	4.61	0.831	27.820
5199.	1.269	34.705	4.63	0.818	27.820
5579.	1.316	34.710	4.64	0.816	27.824

CAST CG2-90-MB -106 LAT 00 30.0N LONG 170 00.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
5.	28.019	35.379	4.88	28.018	22.676
16.	28.005	35.380	4.95	28.001	22.682
38.	27.983	35.378	4.83	27.974	22.690
67.	27.871	35.382	4.76	27.855	22.731
97.	27.741	35.460	4.76	27.718	22.835
122.	26.825	35.370	3.94	26.797	23.063
149.	25.095	35.409	4.28	25.062	23.633
197.	15.088	35.020	3.44	15.058	25.975
246.	12.831	34.856	3.23	12.797	26.322
348.	10.742	34.767	1.57	10.700	26.648
497.	8.162	34.629	1.28	8.110	26.966
995.	4.384	34.557	2.34	4.306	27.402

CAST CG2-90-MB -107 LAT 01 00.1N LONG 170 00.3W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	28.057	35.324	4.71	28.056	22.622
17.	28.004	35.335	4.67	28.000	22.649
38.	27.973	35.338	4.61	27.964	22.663
68.	27.819	35.337	4.35	27.803	22.715
98.	27.293	35.380	4.19	27.270	22.919
122.	26.825	35.356	3.83	26.797	23.053
148.	21.702	35.088	3.29	21.673	24.377
197.	13.722	34.806	2.99	13.694	26.102
297.	11.692	34.834	2.08	11.654	26.526
495.	8.738	34.657	1.14	8.685	26.900
695.	6.271	34.560*	1.82	6.208*	27.178*
994.	4.572	34.557	2.09	4.492	27.381

CAST CG2-90-MB -108 LAT 02 00.3N LONG 170 00.9W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	28.424	35.306	4.79	28.422	22.488
19.	28.099	35.300	4.09	28.095	22.591
38.	27.964	35.302	4.98	27.955	22.639
69.	27.941	35.299	4.76	27.925	22.646
96.	27.633	35.282	4.93	27.611	22.736
120.	27.195	35.202	3.76	27.167	22.818
148.	24.279	35.054	3.35	24.248	23.610
195.	12.989	34.668	2.72	12.962	26.144
297.	11.095	34.774	2.10	11.058	26.589
495.	8.986	34.652	2.01	8.932	26.857
697.	6.275	34.557	1.36	6.212	27.176
994.	4.379	34.560	2.11	4.301	27.405

CAST CG2-90-MB -109 LAT 05 00.1N LONG 170 00.6W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
6.	28.364	34.998	4.78	28.363	22.276
19.	28.373	35.002	4.78	28.369	22.277
40.	28.441	35.048	4.80	28.432	22.291
66.	28.441	35.116	4.66	28.425	22.344
97.	28.045	35.155	4.44	28.022	22.506
122.	26.327	35.095	3.64	26.299	23.013
146.	23.177	34.955	3.49	23.147	23.859
197.	14.442	34.613	2.55	14.413	25.801
296.	9.985	34.661	1.41	9.951	26.696
497.	7.978	34.611*	0.90	7.927*	26.979*
695.	6.208	34.553	0.99	6.145	27.181
997.	4.493	34.564	1.64	4.414	27.395

CAST CG2-90-MB -110 LAT 05 13.7N LONG 169 52.4W

PRES (DB)	TEMP (C)	SAL (PSU)	OXY (ML/L)	POT TEMP	SIG-TH
1247.	3.525	34.592	0.00	3.433	27.519
1247.	3.521	34.589	0.00	3.429	27.517
1246.	3.528	34.590	0.00	3.436	27.517
1245.	3.530	34.590	0.00	3.438	27.517
1244.	3.530	34.593	0.00	3.438	27.519
1241.	3.533	34.592	0.00	3.441	27.518
1243.	3.531	34.590	0.00	3.439	27.516
1242.	3.531	34.589	0.00	3.439	27.516
1240.	3.534	34.589	0.00	3.442	27.515
1238.	3.537	34.590	0.00	3.445	27.516
1240.	3.534	34.597*	0.00	3.442*	27.522*
1242.	3.531	34.590	0.00	3.439	27.516

* Calculated from CTD values