

NOAA Data Report OAR PMEL-69

**CTD MEASUREMENTS DURING 1999 AND 2000 AS PART OF
THE GLOBAL OCEAN-ATMOSPHERE-LAND SYSTEM
(GOALS)/PAN AMERICAN CLIMATE STUDIES (PACS)**

VOLUME I

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Seattle, Washington
June 2001



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CTD Measurements During 1999 and 2000 as Part of the Global Ocean-Atmosphere-Land System (GOALS)/Pan American Climate Studies (PACS)

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Abstract. During 1999 and 2000, CTD data were collected in the equatorial Pacific Ocean as part of the Global Ocean-Atmosphere-Land System (GOALS)/Pan American Climate Studies (PACS), follow-up programs to the Tropical Ocean-Global Atmosphere (TOGA) program and Equatorial Pacific Ocean Climate Studies (EPOCS). Summaries of Sea-Bird CTD measurements and hydrographic data acquired on 16 cruises are presented. Composite potential temperature-salinity diagrams and section plots of oceanographic variables along 95°W, 110°W, 125°W, 140°W, 155°W, 170°W, 180°, and 165°E meridians are given. Profiles including station location, meteorological conditions, and abbreviated CTD data listings are shown for each cast. Hydrographic data are listed for each cruise.

1. Introduction

The Global Ocean-Atmosphere-Land System (GOALS)/Pan American Climate Studies (PACS) Program began in 1995 with scientific objectives to understand and more realistically model (1) the seasonally varying mean climate of the Americas and adjacent ocean regions; (2) the role of boundary processes in forcing seasonal-to-interannual climate variability over the Americas; (3) the coupling between the oceanic mixed layer in the tropical Atlantic and eastern Pacific; and (4) the processes that determine the structure and evolution of the tropical sea-surface temperature field (Piotrowicz, 1995). CTD data are collected in the equatorial Pacific Ocean in conjunction with the maintenance of the Tropical Atmosphere-Ocean (TAO) array.

The TAO array is made up of ATLAS wind and thermistor chain moorings and current meter moorings that record and report data in real time using the ARGOS satellite data telemetry system. A major objective of the TAO array is to facilitate understanding, modeling, and prediction of the global interannual climate fluctuations associated with the El Niño-Southern Oscillation phenomena in the tropical Pacific Ocean. To this end, an ocean observing array has been implemented to initialize, force, and verify ocean prediction models in real time. The TAO array consists of approximately 70 ATLAS moorings and current meter moorings within 8 degrees of the equator spanning the Pacific Basin from 95°W to 137°E. The bulk of the array is being maintained by the Pacific Marine Environmental Laboratory (PMEL) TAO Project Office as part of the NOAA Ocean Climate Observing System for the Climate and Global Change Program.

The primary objective of TAO cruises is the deployment and recovery of moorings. At a minimum, CTD casts supporting the GOALS/PACS program are conducted at each mooring site to a depth of 1000 m. As time allows, additional CTD work is prioritized as follows: (1) 1000 m casts at 1-degree intervals between 12°N and 8°S along each ship trackline, (2) deep casts at mooring sites to a minimum depth of 3000 m or a maximum depth 200 m above the bottom, (3) 1000 m casts every one-half degree of latitude between 3°N and 3°S. Physical underway operations include shipboard

Acoustic Doppler Current Profiler (ADCP) measurements, sea surface temperature (SST) and salinity (SSS) measurements, routine weather observations, and upper air soundings.

CTD measurements are used to verify ATLAS temperature sensor data, calculate dynamic height, and at many sites are the only observations of the equatorial Pacific salinity field. These CTD data are quickly processed, calibrated, and distributed internationally to a wide variety of users: biological, chemical, and physical oceanographers at universities and government laboratories including NOAA/NCEP for improvement of ENSO predictions.

Summaries of CTD measurements and hydrographic data collected on 16 cruises during 1999 and 2000 are presented here. Data include meridional sections across the equator along 95°W, 110°W, 125°W, 140°W, 155°W, 170°W, 180°, and 165°E. Figures 1a-p show the cruise track and CTD station locations for each cruise. Tables 1a-p summarize CTD station information for each cruise. Cruise name notation is GPx-yy-zz, where x is the sequential GOALS/PACS cruise number during each year, yy is the year (99 or 00), and zz is the ship code (KA for the NOAA ship *Ka'imimoana*, RB for the NOAA ship *Ronald H. Brown*). Sea-Bird 911plus systems are used to acquire CTD data on all cruises. Pressure, temperature, and conductivity are sampled at a rate of 24 Hz. A prototype oxygen sensor designed by Sea-Bird was added to the primary sensor suite during GP700. Water samples are collected on the upcast using an electronically fired rosette sampler and used to calibrate CTD data (see section 6). Salinity is analyzed using an autosalinometer (see section 4). Sample oxygen concentrations during GP700 were measured using the Winkler method as specified in the WOCE Operations Manual (1994).

2. Sea-Bird 911plus CTD System

The Sea-Bird Electronics, Inc. (SBE) 911plus CTD system is a real-time data system with the CTD data from the SBE 9plus underwater unit transmitted via a conducting cable to the SBE 11plus deck unit. The serial data from the underwater unit is sent to the deck unit in RS-232 NRZ format. The deck unit decodes the serial data and sends it to a personal computer for display and storage using Sea-Bird SEASOFT software program SEASAVE. The SBE 911plus CTD system transmits data from its primary and auxiliary sensors in the form of binary number equivalents of the frequency or voltage outputs from those sensors. This is referred to as the raw data. The calculations required to convert raw data to engineering units are performed in the software, either in real time, or after the data has been stored in a disk file (Seasoft, 1994).

2.1 Conductivity

The flow-through conductivity sensing element is a glass tube (cell) with three platinum electrodes. The resistance measured between the center electrode and end electrode pair is determined by the cell geometry and the specific conductance of the fluid within the cell, and controls the output

frequency of a Wien Bridge circuit. The sensor has a frequency output of approximately 3 to 12 kHz corresponding to conductivity from 0 to 7 Siemens/meter (0 to 70 mmho/cm). The SBE conductivity sensor has a typical accuracy/stability of ± 0.0003 S/m/month, and resolution of 0.00004 S/m at 24 Hz.

Sensor calibrations are performed at Sea-Bird Electronics, Inc. in Bellevue, Washington on a roughly annual basis. Conductivity calibration certificates show an equation containing the appropriate pressure-dependent correction term to account for the effect of hydrostatic loading (pressure) on the conductivity cell:

$$C(\text{S/m}) = (g + hf^2 + if^3 + jf^4)/[10(1 + ctcort + cpcor p)]$$

where g , h , i , j , $ctcor$, and $cpcor$ are calibration coefficients, f is the instrument frequency (kHz), t is the water temperature ($^{\circ}\text{C}$), and p is the water pressure (dbar). SEASOFT automatically implements this equation.

2.2 Temperature

The temperature sensing element is a glass-coated thermistor bead, pressure-protected by a stainless steel tube. The sensor output frequency ranges from approximately 5 to 13 kHz corresponding to temperature from -5 to 35 degrees Celsius. The output frequency is inversely proportional to the square root of the thermistor resistance which controls the output of a patented Wien Bridge circuit. The thermistor resistance is exponentially related to temperature. The SBE thermometer has a typical accuracy/stability of $\pm 0.004^{\circ}\text{C}$ per year; and resolution of 0.0003°C at 24 Hz. The SBE thermometer has a fast response time of 0.070 seconds.

Sensor calibrations are performed at Sea-Bird Electronics, Inc. on a roughly annual basis. Temperature (ITS-90) is computed according to

$$T(^{\circ}\text{C}) = 1/\{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$$

where g , h , i , j , and f_0 are calibration coefficients, and f is the instrument frequency (kHz). SEASOFT automatically implements this equation, and converts between ITS-90 and IPTS-68 temperature scales when selected.

2.3 Pressure

The Paroscientific series 4000 Digiquartz high pressure transducer uses a quartz crystal resonator whose frequency of oscillation varies with pressure induced stress measuring changes in pressure as small as 0.01 parts per million with an absolute range of 0 to 10,000 psia (0 to 6885 decibars). Also, a quartz crystal temperature signal is used to compensate for a wide range of temperature changes. Repeatability, hysteresis, and pressure conformance are 0.005% FS. The nominal pressure frequency (0 to full scale) is 34 to 38 kHz. The nominal temperature frequency is 172 kHz + 50 ppm/ $^{\circ}\text{C}$.

Periodic sensor calibrations are performed at Sea-Bird Electronics, Inc. Pressure coefficients are first formulated into

$$\begin{aligned}
 c &= c1 + c2 * U + c3 * U^2 \\
 d &= d1 + d2 * U \\
 t0 &= t1 + t2 * U + t3 * U^2 + t4 * U^3 + t5 * U^4
 \end{aligned}$$

where U is temperature in degrees Celsius. Then pressure is computed according to

$$P(\text{psia}) = c * [1 - (t0^2/t^2)] * \{1 - d[1 - (t0^2/t^2)]\}$$

where t is pressure period (μs). SEASOFT automatically implements this equation.

2.4 Oxygen

The SBE-43 prototype used during GP700 uses an electrochemical cell that is constantly polarized. The sensor is temperature compensated using special temperature sensing and an internal microcomputer. The interface electronics reports voltages for oxygen current only. A linear equation of the form $I = mV + b$, where $m = 1.0\text{e-}6$ and $b = 0.0$, yields sensor current as a function of sensor output voltage. The sensor has a thermal time constant of approximately 2.5 s; and an oxygen response time constant that is temperature dependent, increasing with cooler temperatures, ranging from 2 to 12 s.

Pre-cruise sensor calibrations are performed at Sea-Bird Electronics, Inc., providing slope, bias, t_{cor} , and p_{cor} coefficients. SEASOFT computes dissolved oxygen according to Owens and Millard (1985).

3. Data Acquisition

The package enters the water and is held beneath the surface for 60 seconds in order to prime the system. Under ideal conditions the package should be lowered at a rate of 30 m/min to 50 m, 45 m/min to 200 m, and 60 m/min to depth. Ship heave may cause substantial variation about these mean lowering rates. Cable tension is monitored at the winch box display. The position of the package relative to the bottom during deep casts is monitored using the ship's Precision Depth Recorder (PDR). An estimated bottom depth is first obtained from bathymetric charts and then the PDR is run during the bottom 1000 m of the cast.

Nominally 12 water samples are collected during the upcast using an SBE rosette. Five- or ten-liter Niskin sample bottles are used depending on the cruise. Bottle closures are performed through the SEASOFT software.

A backup of the analog data stream is made on video cassette tape. Digitized data on the PC are backed up onto $\frac{1}{4}$ " QIC-80 cartridge tapes or Zip disks.

4. Salinity Analysis

Bottle salinity analyses are performed in temperature-controlled environments using Guildline Model 8400B inductive autosalinometers standardized with IAPSO Standard Seawater. The autosalinometer is standardized before each run and either at the end of each run or after no more than 48 samples. The drift between standardizations is monitored and the individual samples are corrected for that drift by linear interpolation. Duplicate samples are taken from the deepest bottle on each cast and analyzed on a subsequent day. Bottle salinities are compared to preliminary CTD salinities at sea to aid in the identification of leaking bottles as well as to monitor the CTD conductivity cells' performance and drift. Their use in calibrating CTD conductivity on shore is detailed in section 6. The expected precision of the autosalinometer with an accomplished operator is 0.001 PSS-78, with an accuracy of 0.003.

5. SEASOFT Processing

SEASOFT consists of modular menu driven routines for acquisition, display, processing, and archiving of oceanographic data acquired with Sea-Bird equipment and is designed to work with an IBM or compatible personal computer. Raw data are acquired from the instruments and stored unmodified. The conversion module DATCNV uses instrument configuration and pre-cruise calibration files to create a converted engineering unit data file that is operated on by all SEASOFT post processing modules. The following describes each processing module used and notes the specifications in the reduction of GOALS/PACS CTD data.

ALIGNCTD advances secondary conductivity relative to temperature by 0.73 s. This is the typical net advance of ducted temperature and conductivity sensors with a 3000-rpm pump. The SBE 11plus deck unit automatically advances primary conductivity. ALIGNCTD was also used to advance GP700 oxygen by 8 s. ROSSUM creates a summary of the bottle data. Pressure, temperature, and conductivity (and oxygen parameters for GP700) are averaged over a 2-s interval after the confirm bit in the upcast data stream. WILDEDIT marks extreme outliers in the data files. The first pass obtains an accurate estimate of the true standard deviation of the data. The data are read in blocks of 100 scans. Data greater than two standard deviations are flagged. The second pass computes a standard deviation over the same 100 scans excluding the flagged values. Values greater than 20 standard deviations are marked bad. All flagged data are excluded. FILTER performs a low-pass filter on pressure with a time constant of 0.15 s and on conductivity with a time constant of 0.03 s. In order to produce zero phase (no time shift) the filter first runs forward through the file and then runs backwards through the file. DERIVE computes selected variables such as GP700 do_{xc}/dt . CELLTM uses a recursive filter to remove conductivity cell thermal mass effects from the measured conductivity. Nominal values are used for thermal anomaly amplitude ($\alpha = 0.03$) and the time constant

($1/\beta = 7.0$). LOOPEDIT excludes scans where the minimum velocity of the package is less than 0.25 m/s or the package has reversed its direction owing to ship heave. BINAVERAGE averages the data into 1 dbar pressure bins starting at 1 dbar (no surface bin). The center value of the first bin is set equal to the bin size. The bin minimum and maximum values are the center value plus or minus half the bin size.

6. Post-Cruise Calibrations

6.1 Conductivity

PMEL Fortran program SBECAL combines SEASOFT bottle files into one listing. PMEL Fortran program ADDSAL reads bottle salinity data received from Survey personnel and adds it to the combined listing. MATLAB functions CALCOSn are used to determine the best fit of CTD and bottle data, where n is the order of the station-dependent linear or polynomial fit. CALCOSn recursively throws out data greater than 2.8 standard deviations. CALCOSn returns a single conductivity bias and a conductivity slope for each station. A station-dependent slope coefficient best models the gradual shift in the conductivity sensor within each station grouping with time. CALCOPn additionally returns a linear pressure term (modified beta) that is multiplied by CTD pressure and added to conductivity. The order of the polynomial was chosen to keep the standard deviation of each grouping to a minimum. Table 3 lists the conductivity calibration coefficients determined for each station grouping.

PMEL Fortran program CALMSTR applies post-cruise calibrations to temperature and conductivity, and computes final salinity values. Final pressure calibrations were pre-cruise. CTD-bottle conductivity differences (Figs. 2a-h) are used to verify the success of the fit parameters.

6.2 Temperature

Adjustments were made to the bias of the thermistors using a linear fit of the sensor drift history from calibration data taken over the previous few years, projected to the midpoint of each cruise. These drift corrections are small (order 1×10^{-3} °C). Also, a uniform correction was applied for heating of the thermistor owing to viscous effects. Thermistors are biased high by this effect and were adjusted down by 0.6×10^{-3} °C. This results in errors of no more than $\pm 0.15 \times 10^{-3}$ °C from this effect for the full range of oceanographic temperature and salinity. Table 2 lists the drift and viscous heating corrections applied to temperature for these cruises.

6.3 Oxygen

In situ oxygen samples collected during GP700 and associated upcast CTD burst data were used for post-measurement calibration. Oxygen saturation values were computed according to Benson and Krause (1984) in units of $\mu\text{mol}/\text{kg}$.

The algorithm used for converting oxygen sensor current to oxygen as described by Owens and Millard (1985) requires a non-linear least squares regression technique in order to determine the best fit coefficients of the model for oxygen sensor behavior to the water sample observations. WHOI program OXFITMR uses Numerical Recipes (Press *et al.*, 1986) Fortran routines MRQMIN, MRQCOF, GAUSSJ, and COVSRT to perform non-linear least squares regression using the Levenberg-Marquardt method (McTaggart *et al.*, 1999). A Fortran subroutine FOXY describes the oxygen model with the derivatives of the model with respect to six coefficients in the following order: oxygen current slope, temperature correction, pressure correction, weight, oxygen current bias, and oxygen current lag.

Because the SBE-43 oxygen sensor is temperature compensated, weight was fixed at zero and the temperature correction was fixed at near zero. Because there were no deep titrated samples during GP700, the pressure correction was fixed at the pre-cruise value. 93% of the calibration data were used in the final fit, resulting in a standard deviation of 4.438 $\mu\text{mol/kg}$ and the following coefficients:

```
bias = 0.007
slope = 0.5056e-3
pcor = 0.1500e-3
tcor = -0.1000e-3
wt = 0.000
lag = -1.174
```

CTD-bottle oxygen differences are plotted against station number and pressure to show the stability of the calibrated CTD oxygens relative to the bottle oxygens (Fig. 3).

7. Additional Processing

For 1999 cruises, SEASOFT processing modules are followed by PMEL VAX Fortran program EPSBE, which applies post-cruise calibrations to conductivity and converts the 1-dbar averaged CTD data to EPIC format (Soreide *et al.*, 1995). EPSBE creates a WOCE quality flag associated with each record of pressure, temperature, and CTD salinity. Quality flag definitions can be found in the WOCE Operations Manual (1994). EPSBE skips bad records near the surface and also any records flagged bad by SEASOFT. Measured data are copied back to 0 dbar and gaps are linearly interpolated such that a record exists every 1 dbar. WOCE flags are amended to reflect these changes. EPSBE calculates ITS-90 temperature and salinity (PSS-78), as well as potential temperature (IPTS-68), sigma-t, and sigma-theta using the 1980 equation of state algorithms described by Fofonoff and Millard (1983). Dynamic height in dynamic meters is calculated by integrating down from the sea surface.

For 2000 cruises, EPSBE was rewritten as UNIX Fortran program CNV_EPS. CNV_EPS performs the same functions as EPSBE but writes the data in NetCDF format.

PMEL VAX Fortran program EPICBOMSTR creates individual bottle

files in EPIC format for each cast collected during 1999. PMEL UNIX Fortran program CLB_EPS creates individual bottle files in NetCDF format for casts collected during 2000.

8. Data Presentation

The majority of the plots that follow were produced using Plot Plus Scientific Graphics System (Denbo, 1992). Figures 4–53 are potential temperature, salinity, and sigma-theta sections for each meridian. Oxygen sections are also included for 95°W and 110°W from GP700. Figures 54–69 are composite potential temperature-salinity diagrams for each meridian. Tables 4–8 define the abbreviations and units used in the CTD data summary listings that are presented alongside 0–1000 m profiles of each cast for each cruise. Hydrographic bottle data at discrete depths are also given for each cruise.

9. Acknowledgments

The assistance of the officers, crew, and scientific parties of the NOAA ships *Ka'imimoana* and *Ronald H. Brown* are gratefully acknowledged. Salinity analyses were successfully completed by each ship's Survey Department personnel, CST Dennis Sweeney and CST Jonathan Shannahoff. Oxygen titrations were performed during GP700 by Melissa Hendricks of Princeton University. Sea-Bird is acknowledged for loan of a SBE-43 oxygen sensor prototype for GP700. Jim Carlson provided useful information on and support for the SBE-43. This research was supported by NOAA's Office of Global Programs.

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FIGURES AND TABLES

GP1-99-KA CRUISE TRACK
January 22 - February 24, 1999
Honolulu, HI - San Diego, CA

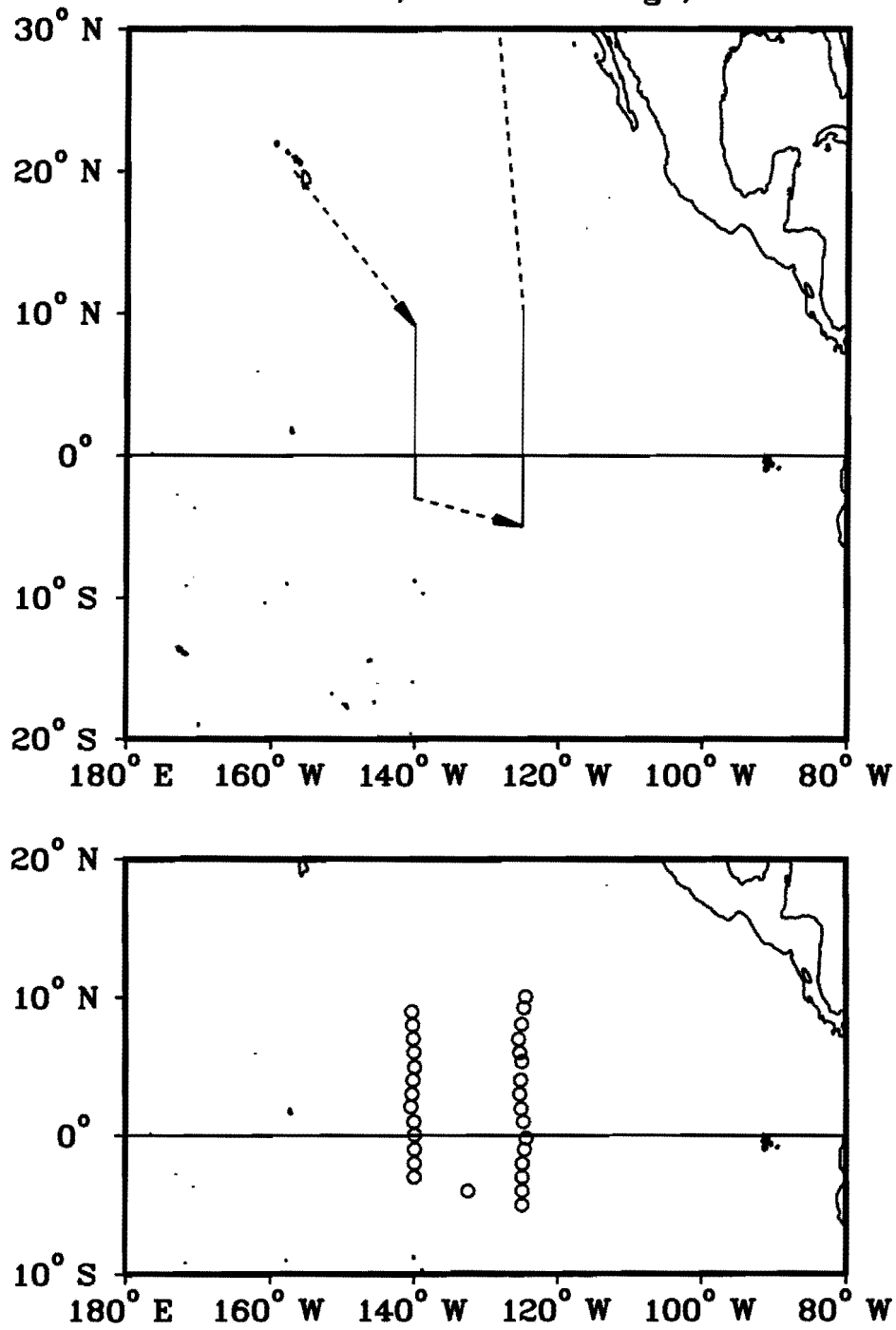


Figure 1a: GP1-99-KA cruise track and station locations.

Table 1a: GP1-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 58.5'N	140° 16.2'W	30 Jan 99	520	57	15	4882	1008
21	8° 0.3'N	140° 9.7'W	30 Jan 99	1327	93	10	5178	1003
31	7° 0.9'N	140° 3.4'W	30 Jan 99	2226	90	11	4973	1002
41	6° 0.6'N	139° 58.3'W	31 Jan 99	838	37	10	4834	1003
51	4° 56.5'N	139° 53.1'W	1 Feb 99	757	56	13	4496	1003
61	4° 0.3'N	140° 6.2'W	1 Feb 99	1604	56	15	4418	1004
71	3° 0.4'N	140° 15.1'W	1 Feb 99	2339	65	16	4334	1003
81	2° 5.7'N	140° 24.7'W	2 Feb 99	919	84	17	4334	4003
91	1° 0.1'N	139° 59.1'W	4 Feb 99	915	81	16	4323	1003
101	0° 3.2'N	139° 53.2'W	5 Feb 99	342	102	12	4360	1003
111	0° 59.4'S	139° 54.6'W	5 Feb 99	1158	81	15	4210	1002
121	1° 59.9'S	139° 54.7'W	5 Feb 99	2002	88	13	4100	1001
131	2° 59.9'S	139° 56.2'W	6 Feb 99	438	81	13	4309	1002
141	3° 59.9'S	132° 28.7'W	8 Feb 99	1225	110	14	4734	1002
151	5° 1.3'S	124° 56.7'W	11 Feb 99	624	59	13	4552	1003
161	3° 59.8'S	124° 55.6'W	11 Feb 99	1433	88	10	4523	1002
171	2° 59.9'S	124° 55.5'W	11 Feb 99	2221	100	14	4629	1002
181	2° 0.5'S	124° 53.7'W	12 Feb 99	637	151	11	4732	1003
191	0° 59.9'S	124° 35.5'W	12 Feb 99	1433	102	10	4668	1003
201	0° 11.3'S	124° 21.8'W	12 Feb 99	2025	93	6	4718	1003
211	1° 0.1'N	124° 44.4'W	13 Feb 99	704	88	9	4578	1003
221	1° 57.8'N	125° 4.0'W	13 Feb 99	2031	108	9	4673	1003
231	2° 59.9'N	125° 15.2'W	14 Feb 99	1131	105	7	4626	1002
241	4° 0.2'N	125° 7.9'W	14 Feb 99	1923	157	9	4493	1004
251	5° 20.7'N	124° 57.6'W	15 Feb 99	536	123	12	3927	1002
261	5° 59.6'N	125° 14.6'W	15 Feb 99	1110	148	4	4424	1003
271	7° 0.0'N	125° 23.5'W	15 Feb 99	2211	40	6	4572	1003
281	8° 4.1'N	124° 59.4'W	16 Feb 99	705	66	21	4607	1003
291	9° 16.3'N	124° 40.1'W	16 Feb 99	1747	35	19	4603	4107
301	10° 4.4'N	124° 25.0'W	17 Feb 99	201	36	21	4653	1005

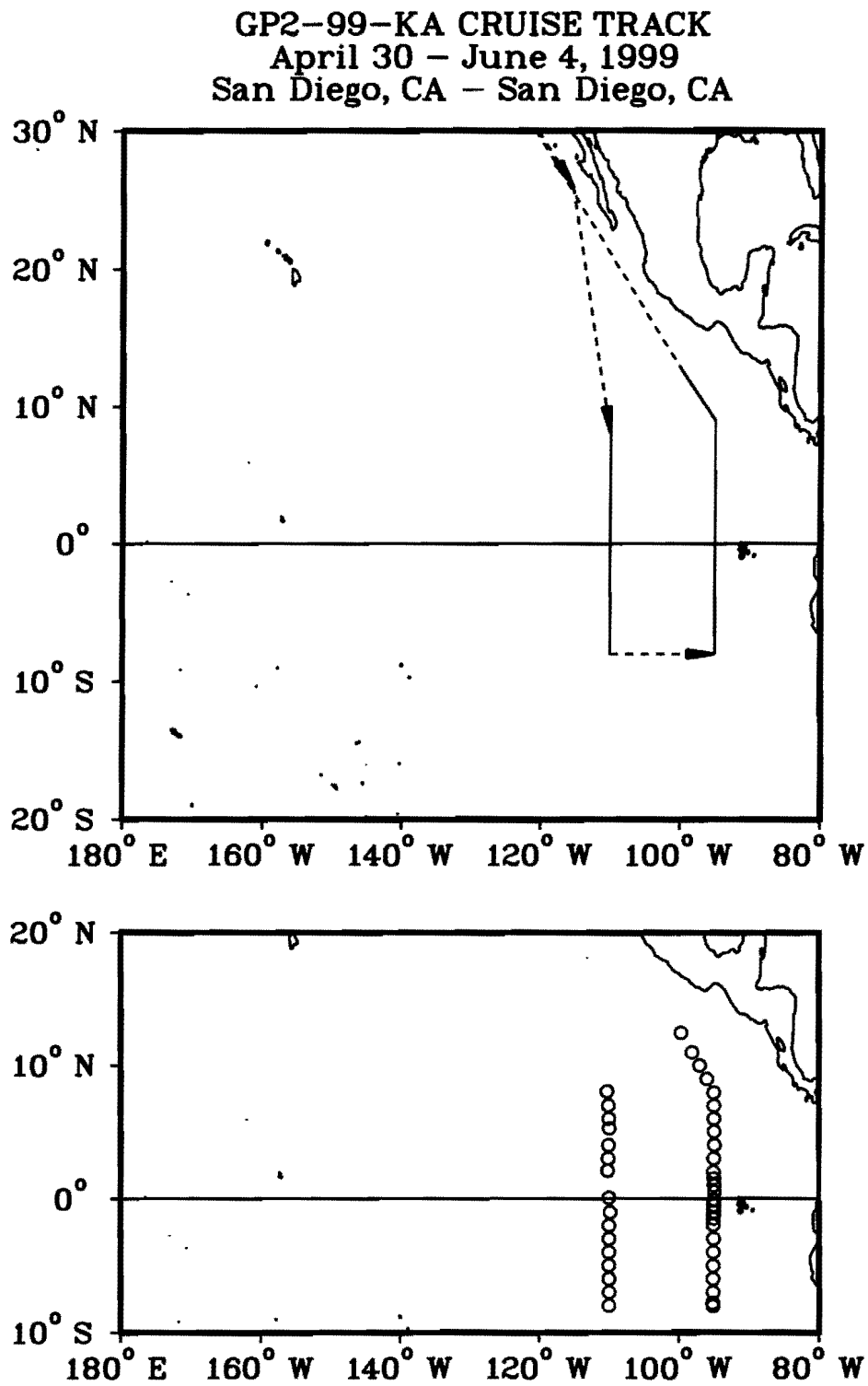


Figure 1b: GP2-99-KA cruise track and station locations.

Table 1b: GP2-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	26° 6.6'N	115° 27.9'W	2 May 99	529	337	13	3618	106
21	8° 4.0'N	110° 15.2'W	7 May 99	512	350	5	4084	1003
31	6° 59.9'N	110° 3.4'W	7 May 99	1253	357	4	3709	1004
41	6° 0.1'N	109° 58.9'W	7 May 99	1934	144	9	3686	1001
51	5° 16.2'N	109° 57.0'W	8 May 99	700	166	2	3874	3503
61	4° 0.0'N	110° 2.7'W	9 May 99	126	201	7	3916	1009
71	3° 0.2'N	110° 6.1'W	9 May 99	833	192	7	3905	1002
81	2° 5.6'N	110° 10.6'W	9 May 99	1553	164	6	3761	1003
101	0° 4.4'N	109° 59.2'W	10 May 99	831	144	5	3814	3504
111	1° 0.1'S	109° 48.1'W	12 May 99	610	181	6	3853	1004
121	2° 0.8'S	109° 59.2'W	12 May 99	1357	147	5	3943	1003
131	2° 59.8'S	109° 59.0'W	12 May 99	2022	161	5	3806	503
141	4° 0.0'S	109° 59.4'W	13 May 99	328	191	3	3611	1004
151	4° 59.3'S	109° 59.9'W	13 May 99	1033	174	3	3587	1002
161	5° 59.5'S	109° 58.4'W	13 May 99	1734	140	8	3787	1002
171	6° 59.6'S	109° 57.3'W	14 May 99	111	96	16	3546	1001
181	7° 59.1'S	109° 59.8'W	14 May 99	1326	91	16	3503	1003
191	8° 1.6'S	95° 6.5'W	19 May 99	910	130	13	3577	2004
192	7° 47.9'S	95° 8.2'W	19 May 99	1905	143	12	3945	202
201	6° 59.9'S	95° 5.8'W	20 May 99	22	144	9	3893	1001
211	6° 0.2'S	95° 5.2'W	20 May 99	735	142	11	3903	1002
221	5° 1.3'S	95° 4.1'W	20 May 99	2042	136	10	3824	1003
231	4° 0.1'S	95° 2.8'W	21 May 99	357	144	9	3712	1003
241	3° 0.0'S	95° 0.4'W	21 May 99	1050	176	8	3530	1001
251	1° 58.2'S	95° 1.9'W	21 May 99	1745	149	11	3355	1004
261	1° 29.9'S	95° 0.1'W	21 May 99	2140	147	9	3339	1002
271	0° 59.5'S	94° 59.2'W	22 May 99	131	145	10	3349	1007
281	0° 29.8'S	94° 59.6'W	22 May 99	502	114	7	3389	1003
291	0° 3.0'S	94° 58.4'W	23 May 99	310	123	10	3286	3002
292	0° 6.5'S	94° 54.9'W	23 May 99	1745	128	11	3379	503
301	0° 30.2'N	94° 55.5'W	23 May 99	2134	134	9	3325	1002
311	1° 0.0'N	94° 57.3'W	24 May 99	119	129	9	3512	1004
321	1° 30.2'N	94° 59.1'W	24 May 99	524	133	10	2625	1002
331	1° 59.8'N	95° 1.6'W	24 May 99	1646	142	7	3207	1005
341	3° 0.2'N	94° 58.3'W	24 May 99	2327	172	17	2726	1003
351	4° 0.1'N	94° 54.6'W	25 May 99	529	180	10	3268	1003
361	5° 1.1'N	94° 56.3'W	25 May 99	2104	213	10	3584	1003
371	6° 0.0'N	94° 57.5'W	26 May 99	344	194	10	3745	1003
381	6° 59.4'N	94° 57.7'W	26 May 99	1016	278	4	3685	1003
391	7° 58.7'N	94° 58.7'W	26 May 99	2013	217	3	3748	1003
401	9° 0.0'N	95° 57.9'W	27 May 99	705	215	50	3678	1003
411	10° 0.1'N	97° 0.0'W	27 May 99	1659	64	3	4043	1003
421	11° 0.0'N	98° 5.1'W	28 May 99	240	66	7	3695	1002
431	12° 28.4'N	99° 39.5'W	28 May 99	1508	119	4	3500	3302

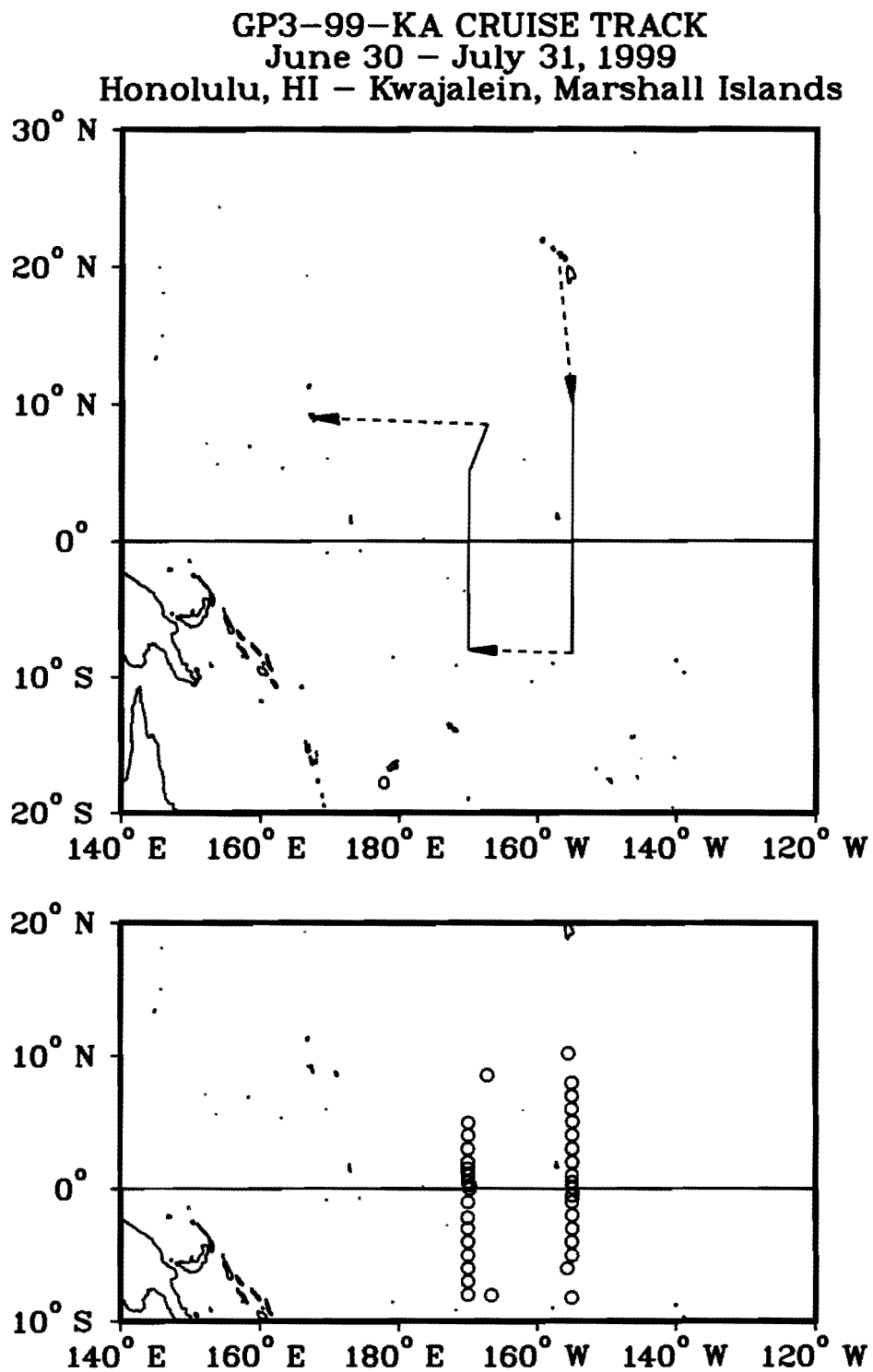


Figure 1c: GP3-99-KA cruise track and station locations.

Table 1c: GP3-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	10° 11.6'N	155° 30.5'W	3 Jul 99	2353	68	2	5272	503
21	7° 59.1'N	155° 0.9'W	4 Jul 99	1535	67	7	5142	1002
31	7° 0.3'N	155° 1.1'W	5 Jul 99	1004	23	10	5020	1002
41	6° 0.8'N	155° 2.3'W	5 Jul 99	1719	113	11	4883	1004
51	5° 2.3'N	154° 54.8'W	6 Jul 99	1057	122	8	4609	4011
52	5° 1.5'N	154° 54.1'W	6 Jul 99	1252	118	9	4610	202
61	4° 1.7'N	154° 57.8'W	7 Jul 99	56	109	19	4696	1003
71	3° 0.1'N	154° 57.1'W	7 Jul 99	857	97	19	4806	1004
81	1° 59.1'N	154° 56.9'W	7 Jul 99	1659	80	9	4654	1001
82	2° 0.7'N	154° 57.0'W	7 Jul 99	2251	90	16	4619	203
91	1° 0.1'N	154° 57.9'W	7 Jul 99	704	67	13	4762	1002
101	0° 29.9'N	154° 58.5'W	7 Jul 99	1122	50	11	4783	1005
111	0° 4.6'N	154° 58.9'W	8 Jul 99	1525	75	10	4647	1006
112	0° 1.8'N	154° 56.4'W	8 Jul 99	2335	77	10	4635	203
121	0° 29.7'S	154° 58.3'W	9 Jul 99	951	62	12	4888	1004
131	0° 59.5'S	154° 58.9'W	9 Jul 99	1418	100	17	4727	1014
141	1° 59.4'S	154° 56.7'W	10 Jul 99	345	87	19	3733	1003
151	2° 59.9'S	154° 57.5'W	10 Jul 99	1207	87	20	5514	1005
161	3° 59.5'S	155° 0.7'W	10 Jul 99	1910	79	21		1002
171	5° 0.4'S	154° 58.4'W	11 Jul 99	535	75	26	5023	1003
181	6° 0.1'S	154° 99.6'W	11 Jul 99	1314	100	23	5777	1003
191	8° 15.4'S	155° 1.2'W	12 Jul 99	503	97	22	5302	1003
201	8° 2.4'S	166° 38.2'W	15 Jul 99	53	76	16	4101	204
211	7° 59.9'S	170° 0.4'W	15 Jul 99	2020	87	14	5373	1002
221	6° 59.7'S	170° 0.4'W	16 Jul 99	336	92	16	4817	1002
231	6° 0.0'S	170° 0.6'W	16 Jul 99	1049	96	16	4806	1003
241	5° 0.3'S	170° 0.2'W	16 Jul 99	1755	104	17	5418	1003
251	3° 59.6'S	170° 0.1'W	17 Jul 99	1146	87	13	5745	1001
261	2° 59.8'S	170° 1.5'W	17 Jul 99	1814	110	13	4824	1003
271	2° 9.5'S	170° 2.7'W	18 Jul 99	141	92	13	5441	1003
281	0° 59.8'S	170° 1.5'W	18 Jul 99	1536	80	13	5157	1003
291	0° 0.2'S	169° 47.5'W	19 Jul 99	911	64	13	5417	4008
292	0° 0.0'N	169° 45.9'W	19 Jul 99	1521	80	13	5419	501
301	0° 15.6'N	169° 45.7'W	20 Jul 99	1313	70	16	5073	4008
311	0° 29.7'N	170° 1.4'W	21 Jul 99	642	92	14	5417	1002
321	1° 0.1'N	170° 1.6'W	21 Jul 99	1029	90	15	5457	1005
331	1° 30.6'N	170° 2.1'W	21 Jul 99	1434	120	12	5508	1001
341	1° 59.2'N	170° 2.1'W	21 Jul 99	1818	115	15	5402	1005
351	2° 59.9'N	170° 1.2'W	22 Jul 99	246	83	15	5484	1003
361	4° 0.0'N	169° 58.7'W	22 Jul 99	1000	80	14	5680	1003
371	4° 56.8'N	169° 57.9'W	22 Jul 99	1710	90	12	5809	1002
381	8° 33.0'N	167° 16.3'W	30 Jul 99	246	53	6	4579	4003

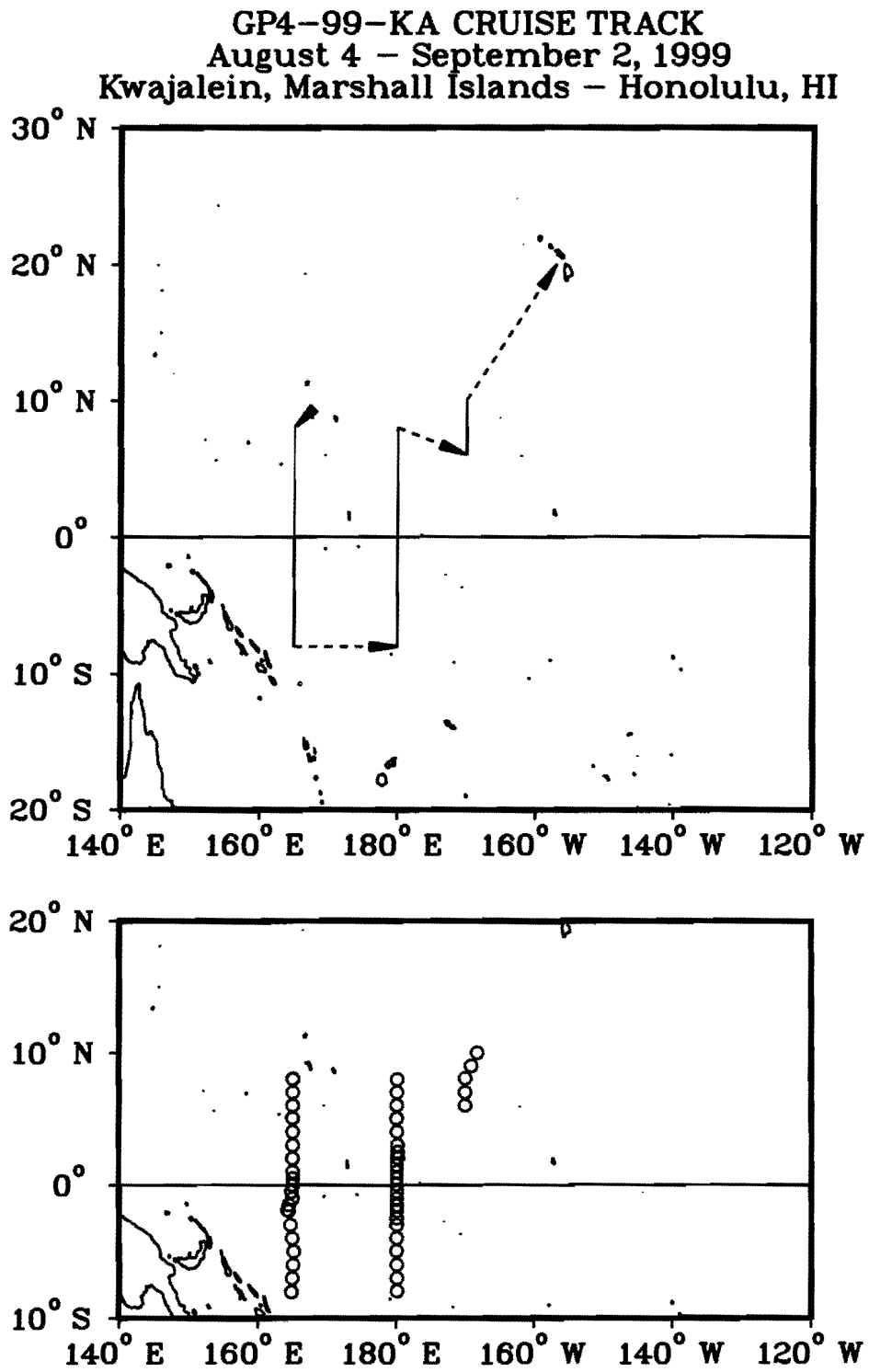


Figure 1d: GP4-99-KA cruise track and station locations.

Table 1d: GP4-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 2.7'N	165° 2.0'E	5 Aug 99	1801	122	13	5211	4006
12	8° 0.2'N	165° 3.7'E	6 Aug 99	337	118	9	5210	202
21	7° 0.0'N	165° 1.7'E	6 Aug 99	1029	57	4	5151	1002
31	5° 59.9'N	165° 0.6'E	6 Aug 99	1654	52	8	4999	1002
41	5° 3.3'N	164° 57.7'E	7 Aug 99	452	55	7	4784	4007
42	5° 1.8'N	165° 0.6'E	7 Aug 99	2253	58	8	4775	1005
51	4° 0.3'N	165° 0.3'E	8 Aug 99	710	55	7	4490	1003
61	3° 0.1'N	165° 0.1'E	8 Aug 99	1342	52	10	4254	1001
71	2° 0.6'N	164° 57.8'E	9 Aug 99	447	39	5	4171	4004
72	2° 0.2'N	164° 58.8'E	9 Aug 99	736	335	2	4170	207
81	0° 59.9'N	165° 0.2'E	9 Aug 99	1724	171	13	4329	1003
91	0° 30.0'N	165° 0.8'E	9 Aug 99	2131	176	12	4365	1005
101	0° 0.7'N	164° 59.9'E	10 Aug 99	621	191	6	4406	4003
111	0° 1.3'S	165° 0.7'E	11 Aug 99	43	140	26	4404	1002
121	0° 30.1'S	164° 49.3'E	11 Aug 99	452	110	8	4428	1002
131	0° 59.8'S	164° 58.2'E	11 Aug 99	850	60	10	4414	1002
141	1° 29.6'S	164° 26.5'E	11 Aug 99	1251	60	10	4438	1002
151	1° 52.9'S	164° 15.8'E	11 Aug 99	1844	51	6	4441	4004
152	1° 56.1'S	164° 25.6'E	12 Aug 99	320	27	11	4431	1002
161	2° 59.9'S	164° 42.0'E	12 Aug 99	1039	37	15	3927	1002
171	3° 59.9'S	164° 56.6'E	12 Aug 99	1733	50	14	3226	1002
181	4° 59.3'S	165° 10.8'E	13 Aug 99	252	57	12	2497	1004
191	6° 0.0'S	165° 4.3'E	13 Aug 99	938	81	10	3604	1002
201	6° 59.7'S	164° 57.2'E	13 Aug 99	1606	100	9	3716	1002
211	8° 1.5'S	164° 48.9'E	13 Aug 99	2305	122	9	3892	202
212	8° 1.3'S	164° 51.7'E	14 Aug 99	57	135	11	3895	3704
221	7° 57.8'S	179° 51.3'W	17 Aug 99	2118	80	11	5521	1002
231	6° 59.8'S	179° 51.4'W	18 Aug 99	347	84	13	5284	1003
241	5° 59.9'S	179° 52.8'W	18 Aug 99	1032	100	16	5088	1001
251	4° 57.8'S	179° 55.0'W	19 Aug 99	506	60	15	5627	4033
261	3° 59.6'S	179° 54.4'W	19 Aug 99	1325	81	12	5848	1005
271	3° 0.0'S	179° 54.4'W	19 Aug 99	2000	51	8	5272	1007
281	2° 29.7'S	179° 54.5'W	19 Aug 99	2351	86	7	5402	1006
291	1° 57.0'S	179° 54.6'W	20 Aug 99	510	62	9	5327	4005
301	1° 29.9'S	179° 54.3'W	20 Aug 99	924	65	14	5231	1005
311	0° 59.8'S	179° 54.7'W	20 Aug 99	1309	94	14	5347	1007
321	0° 29.8'S	179° 54.3'W	20 Aug 99	1706	90	15	4843	1001
331	0° 2.8'N	179° 55.2'W	20 Aug 99	2250	98	16	5384	4001
341	0° 30.1'N	179° 55.6'W	21 Aug 99	310	97	19	5757	1004
351	0° 59.9'N	179° 55.5'W	21 Aug 99	656	95	17	5803	1003
361	1° 30.0'N	179° 55.7'W	21 Aug 99	1049	93	17	5354	1002
371	2° 1.5'N	179° 44.3'W	21 Aug 99	1727	95	15	5319	4003
372	2° 1.7'N	179° 49.2'W	21 Aug 99	2210	97	22	5470	202
381	2° 29.6'N	179° 48.9'W	22 Aug 99	159	85	20	5308	1003
391	3° 0.1'N	179° 49.7'W	22 Aug 99	554	101	16	5971	1002
401	4° 0.1'N	179° 52.5'W	22 Aug 99	1239	97	15	5424	1004
411	5° 1.0'N	179° 55.7'W	23 Aug 99	605	86	16	5605	4001
421	6° 0.1'N	179° 54.2'W	23 Aug 99	1354	86	15	5502	1003
431	7° 0.0'N	179° 52.8'W	23 Aug 99	2020	85	13	5782	1001
441	7° 58.7'N	179° 50.2'W	24 Aug 99	428	83	5	5871	4001
451	6° 0.0'N	169° 59.9'W	26 Aug 99	1855	144	95	5369	1003
461	7° 0.3'N	169° 59.7'W	27 Aug 99	133	124	16	4615	1004
471	8° 4.0'N	169° 58.8'W	27 Aug 99	1613	69	11	5441	4003
481	9° 0.4'N	169° 7.2'W	28 Aug 99	350	58	17	4982	1002
491	10° 0.3'N	168° 14.6'W	28 Aug 99	1404	13	18	5254	1004

GP5-99-KA CRUISE TRACK
September 9 – October 14, 1999
Honolulu, HI – Honolulu, HI

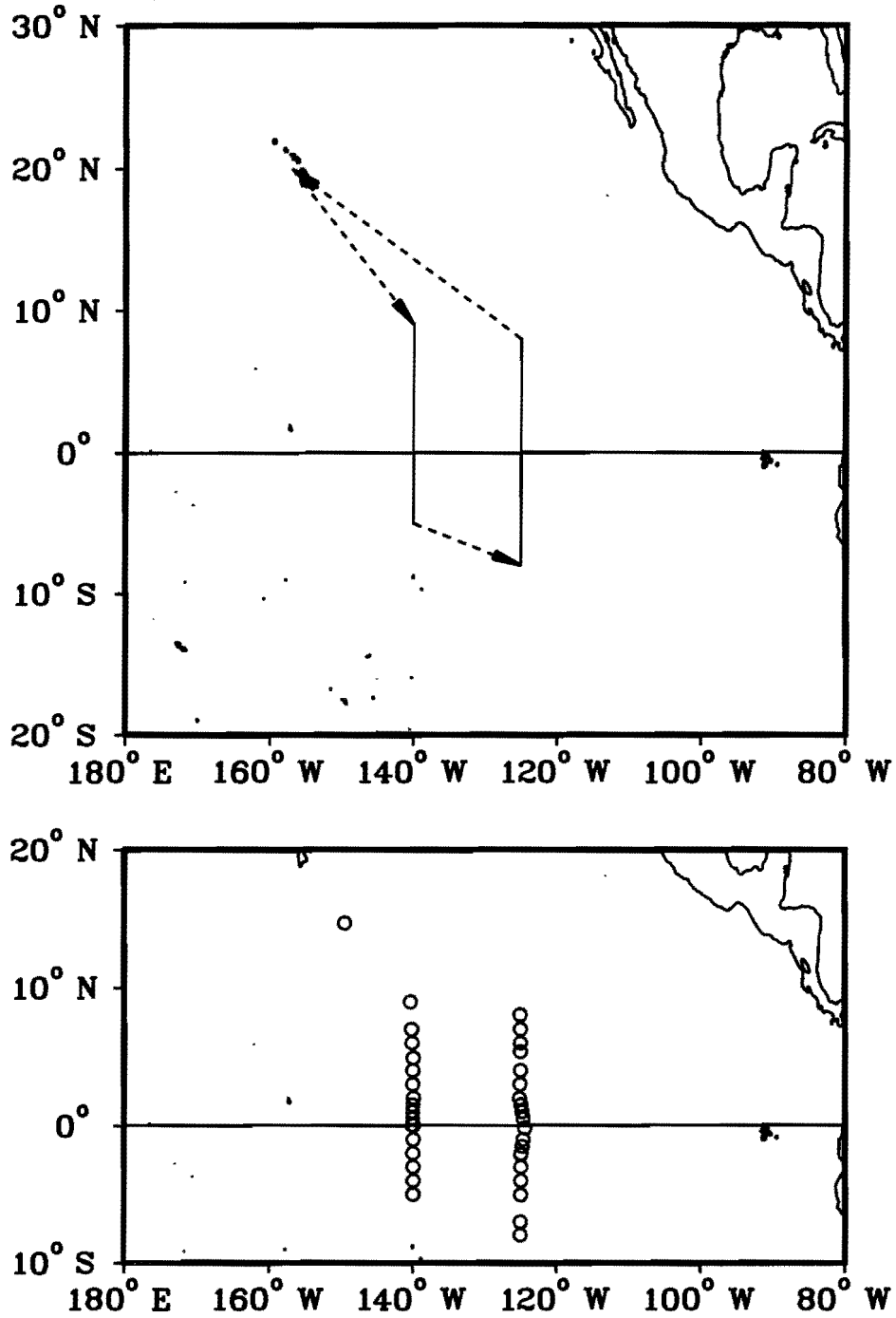


Figure 1e: GP5-99-KA cruise track and station locations.

Table 1e: GP5-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	14° 41.9'N	149° 27.0'W	12 Sep 99	2031	76	13		203
21	8° 59.8'N	140° 16.1'W	16 Sep 99	45	226	9	4815	1003
31	6° 59.7'N	140° 6.8'W	16 Sep 99	1315	145	9	4948	1002
41	6° 0.2'N	140° 3.2'W	16 Sep 99	1952	157	11	4797	1000
51	4° 54.1'N	139° 53.8'W	17 Sep 99	540	140	15	4481	4004
61	4° 0.0'N	139° 57.2'W	18 Sep 99	118	149	11	4309	1003
71	3° 0.2'N	139° 58.2'W	18 Sep 99	757	133	16	4291	1004
81	2° 0.5'N	139° 52.7'W	18 Sep 99	1603	120	15	4367	1003
91	1° 30.1'N	139° 59.7'W	19 Sep 99	9	145	13	4448	1001
101	1° 0.2'N	140° 1.4'W	19 Sep 99	443	116	11	4389	1003
111	0° 30.2'N	140° 2.9'W	19 Sep 99	917	121	10	4345	1003
121	0° 2.6'N	140° 6.1'W	20 Sep 99	710	71	11	4323	4005
122	0° 2.1'N	139° 53.5'W	21 Sep 99	348	94	11	4350	203
131	0° 59.6'S	139° 54.7'W	21 Sep 99	1136	80	9	4214	1003
141	1° 59.9'S	139° 57.6'W	22 Sep 99	212	89	9	4322	1003
151	2° 59.7'S	139° 56.4'W	22 Sep 99	927	70	10	4307	1003
161	3° 59.7'S	139° 55.5'W	22 Sep 99	1627	60	15	4509	1003
171	4° 59.3'S	139° 58.0'W	23 Sep 99	411	60	13	4272	4006
172	5° 0.3'S	139° 55.0'W	23 Sep 99	1905	47	16	4339	202
181	7° 58.2'S	125° 0.9'W	28 Sep 99	541	103	15	4544	1005
191	7° 0.3'S	125° 0.0'W	28 Sep 99	1317	95	15	4637	1003
201	5° 2.3'S	124° 57.0'W	29 Sep 99	349	90	11	4533	1004
211	4° 0.3'S	124° 55.8'W	29 Sep 99	1120	70	11	4529	1002
221	3° 0.4'S	124° 54.8'W	29 Sep 99	1850	84	14	4637	1003
231	2° 6.5'S	124° 55.3'W	30 Sep 99	640	92	12	4631	4007
232	2° 2.8'S	124° 53.5'W	30 Sep 99	1843	83	12	4727	203
241	1° 30.2'S	124° 44.2'W	30 Sep 99	2324	100	14	4570	394
251	0° 59.7'S	124° 35.9'W	1 Oct 99	406	100	14	4660	1003
261	0° 10.5'S	124° 22.3'W	1 Oct 99	2156	105	18	4723	1005
271	0° 30.0'N	124° 35.8'W	2 Oct 99	310	107	17	4530	1004
281	1° 0.0'N	124° 45.4'W	2 Oct 99	658	107	18	4610	1003
291	1° 30.0'N	124° 55.5'W	2 Oct 99	1053	120	18	4645	1001
301	1° 57.6'N	125° 6.6'W	2 Oct 99	1437	135	17	4731	1003
311	3° 0.1'N	125° 1.2'W	3 Oct 99	821	124	20	4450	1002
321	3° 59.9'N	124° 57.1'W	3 Oct 99	1500	135	16	4434	1003
331	5° 21.9'N	124° 57.6'W	4 Oct 99	600	125	14	4084	4007
341	5° 59.9'N	124° 57.1'W	4 Oct 99	2242	140	10	4418	1008
351	6° 59.9'N	124° 57.9'W	5 Oct 99	537	156	16	4665	1005
361	8° 3.3'N	124° 59.7'W	5 Oct 99	1450	178	17	4631	1004

GP7-99-KA CRUISE TRACK
October 14 - November 14, 1999
Honolulu, HI - Suva, Fiji

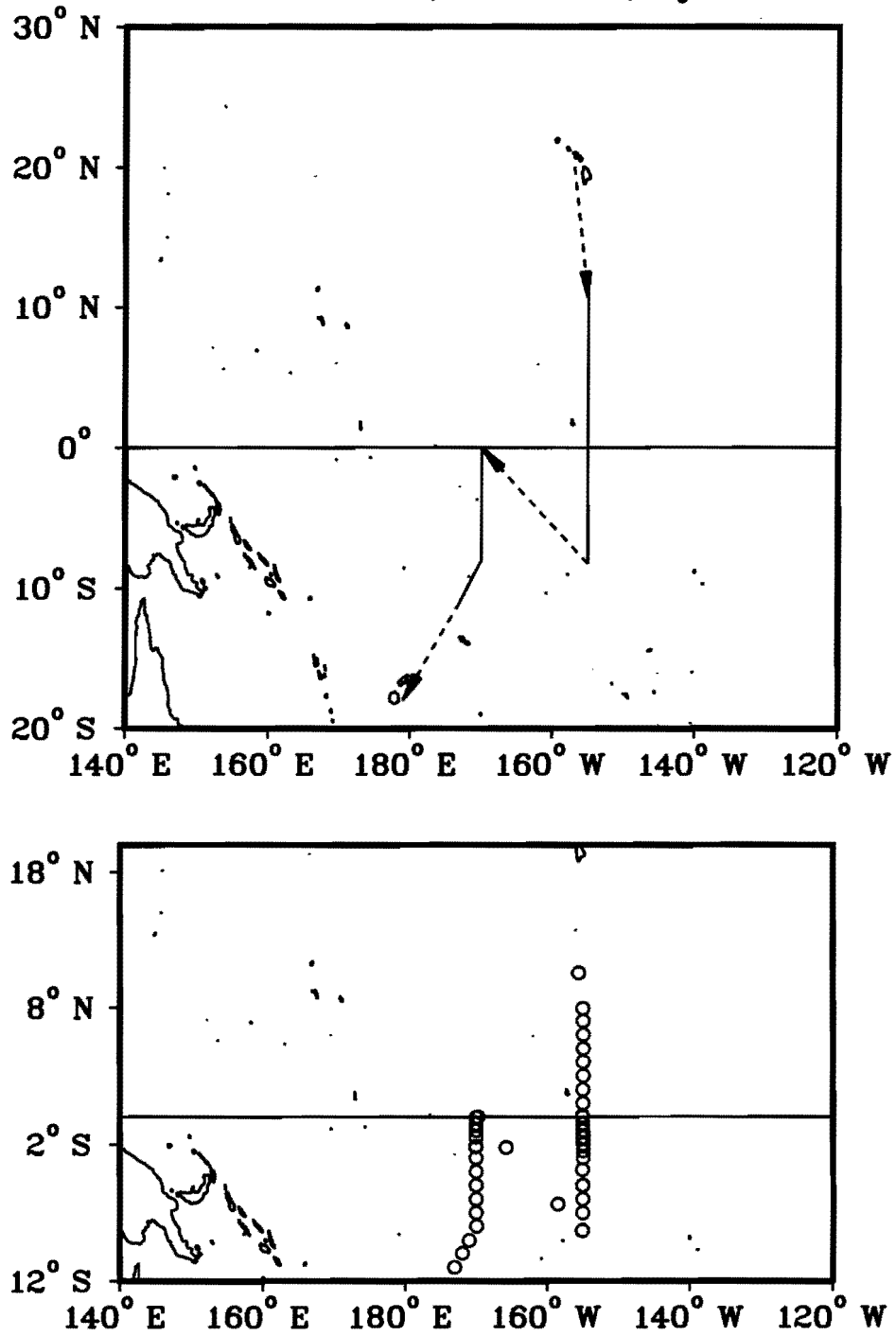


Figure 1f: GP7-99-KA cruise track and station locations.

Table 1f: GP7-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	10° 34.1'N	155° 33.7'W	23 Oct 99	2054	62	19	5146	1004
21	7° 56.7'N	154° 59.2'W	24 Oct 99	1506	96	14	5204	1006
31	7° 1.3'N	154° 57.0'W	24 Oct 99	2245	123	16	4833	1006
41	6° 0.4'N	154° 56.2'W	25 Oct 99	638	128	17	4770	1004
51	4° 59.0'N	154° 55.7'W	25 Oct 99	1431	90	9	4546	1005
61	4° 0.9'N	154° 57.0'W	25 Oct 99	2222	86	18	4648	1003
71	3° 0.5'N	154° 57.4'W	26 Oct 99	537	76	17	4748	1003
81	2° 0.3'N	154° 59.6'W	26 Oct 99	1339	120	12	4640	1002
91	1° 0.1'N	154° 58.9'W	26 Oct 99	2102	96	16	4707	1003
101	0° 4.6'N	155° 3.4'W	27 Oct 99	1013	72	17	4629	4006
102	0° 1.1'N	155° 2.8'W	27 Oct 99	2158	72	14	4649	205
111	0° 29.4'S	155° 0.3'W	28 Oct 99	218	70	13	4840	1003
121	0° 59.2'S	154° 59.3'W	28 Oct 99	633	68	13	4696	1006
131	1° 29.6'S	154° 57.6'W	28 Oct 99	1054	77	14	4830	1004
141	2° 0.2'S	154° 56.8'W	28 Oct 99	1509	80	15	4940	1002
151	2° 29.3'S	154° 57.1'W	28 Oct 99	1930	80	16	4888	1004
161	2° 59.5'S	154° 57.9'W	29 Oct 99	6	78	22	4852	1002
171	3° 51.9'S	155° 2.2'W	29 Oct 99	619	76	22	3683	1003
181	5° 0.1'S	155° 1.1'W	29 Oct 99	1607	77	19	4244	4003
182	4° 59.7'S	154° 59.8'W	30 Oct 99	344	78	14	4950	202
191	5° 59.7'S	154° 59.6'W	30 Oct 99	1050	77	18	5181	1002
201	6° 59.6'S	155° 0.4'W	30 Oct 99	1812	73	25	5095	1004
211	8° 17.6'S	155° 4.6'W	31 Oct 99	834	56	8	5278	4006
212	8° 15.5'S	155° 0.7'W	31 Oct 99	2114	70	13	5271	204
221	6° 22.9'S	158° 28.5'W	1 Nov 99	2145	91	6	5194	202
231	2° 15.5'S	165° 48.7'W	3 Nov 99	2238	68	18	5795	201
241	0° 0.9'S	169° 44.9'W	5 Nov 99	111	81	18	5372	206
251	0° 2.6'S	170° 1.7'W	5 Nov 99	1021	71	23	5502	1003
261	0° 30.1'S	170° 1.4'W	5 Nov 99	1408	70	20	5628	1002
271	0° 59.9'S	170° 1.1'W	5 Nov 99	1807	55	15	5731	1007
281	1° 29.8'S	170° 2.1'W	5 Nov 99	2231	53	14	5457	1002
291	2° 11.9'S	170° 5.8'W	6 Nov 99	934	85	15	5118	4004
292	2° 9.7'S	170° 2.4'W	7 Nov 99	1	99	16	4906	202
301	3° 0.0'S	170° 1.5'W	7 Nov 99	625	73	20	5056	1003
311	4° 0.0'S	170° 1.0'W	7 Nov 99	1339	90	18	5663	1001
321	5° 0.4'S	170° 0.5'W	7 Nov 99	2115	76	18	5348	1002
331	5° 59.8'S	170° 0.0'W	8 Nov 99	456	88	18	4764	1007
341	6° 59.9'S	170° 0.1'W	8 Nov 99	1200	78	13	4702	1003
351	7° 57.6'S	169° 56.2'W	8 Nov 99	2329	66	13	5269	1001
361	9° 0.1'S	170° 59.2'W	9 Nov 99	1214	54	2	4418	1001
371	9° 57.1'S	171° 56.8'W	10 Nov 99	107	353	6	3909	3703
381	10° 59.9'S	173° 2.2'W	10 Nov 99	1226	109	7	4688	1002

GP8-99-RB CRUISE TRACK
November 11 – December 2, 1999
Seattle, WA – San Diego, CA

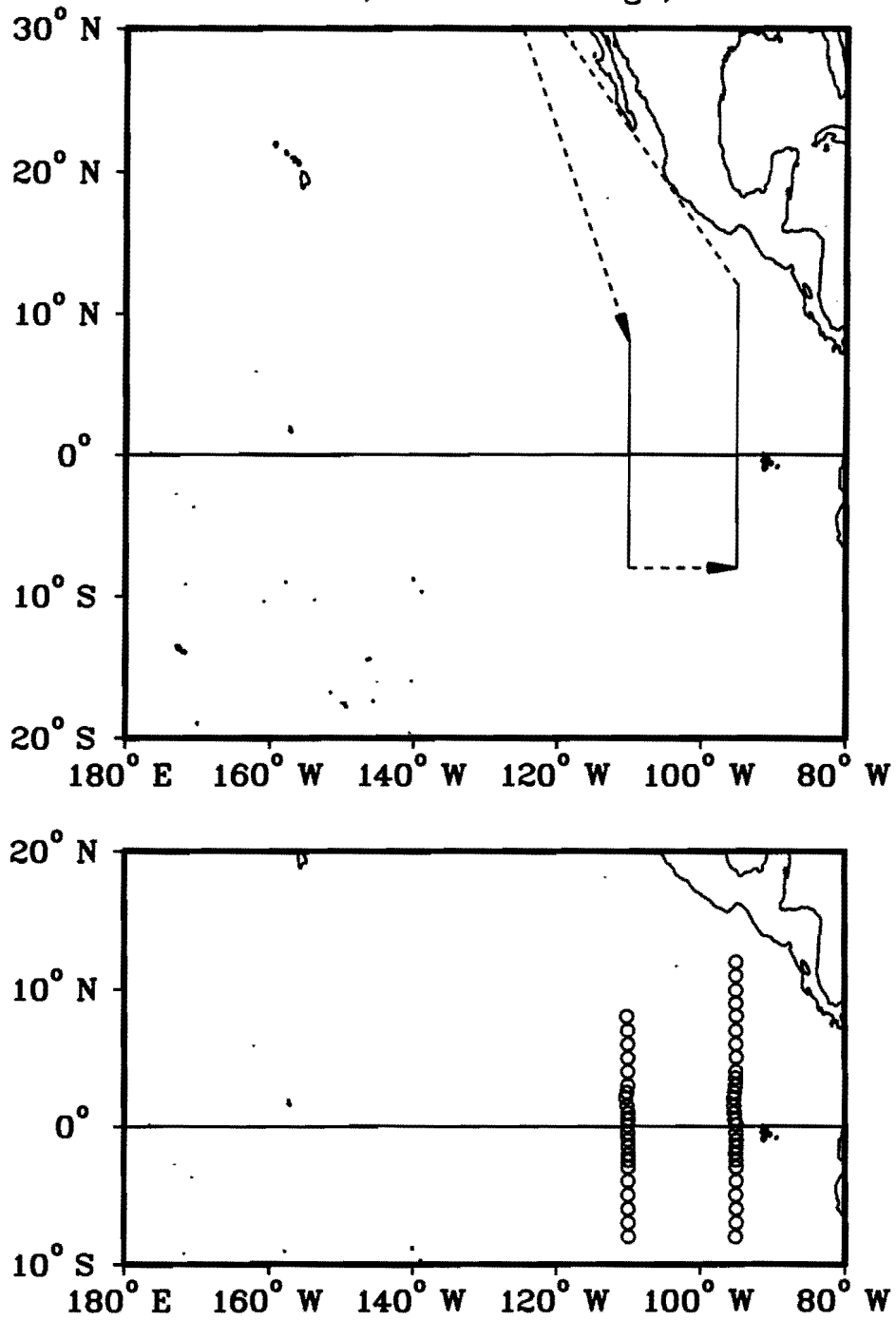


Figure 1g: GP8-99-RB cruise track and station locations.

Table 1g: GP8-99-RB CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 2.6'N	110° 8.3'W	11 Nov 99	1258	65	9	4231	1001
21	7° 0.4'N	110° 0.3'W	12 Nov 99	1157	180	10	3717	1002
31	6° 0.0'N	110° 0.0'W	12 Nov 99	1800	170	14	3685	1002
41	4° 59.9'N	109° 59.4'W	12 Nov 99	2356	160	12	3923	1002
51	4° 0.1'N	110° 0.0'W	13 Nov 99	742	164	17	3878	1003
61	3° 0.0'N	110° 0.0'W	13 Nov 99	1324	148	16	3883	1002
71	2° 30.0'N	110° 8.6'W	13 Nov 99	1720	145	15	3739	1002
81	2° 6.2'N	110° 18.5'W	14 Nov 99	454	135	9	3796	1005
91	1° 29.9'N	110° 7.3'W	14 Nov 99	1040	145	7	3756	1014
101	1° 0.1'N	110° 0.1'W	14 Nov 99	1415	120	15	3812	1003
111	0° 30.3'N	109° 59.1'W	14 Nov 99	1741	100	11	3693	1003
121	0° 3.2'N	110° 3.1'W	15 Nov 99	603	95	10	3734	3777
131	0° 29.6'S	110° 0.4'W	16 Nov 99	832	115	9	3647	1002
141	0° 59.7'S	110° 0.0'W	16 Nov 99	1223	100	7	3989	1002
151	1° 30.0'S	109° 59.0'W	16 Nov 99	1550	110	9	3874	1002
161	2° 3.0'S	109° 57.9'W	17 Nov 99	204	125	11	3929	1003
171	2° 30.0'S	109° 59.0'W	17 Nov 99	536	120	9	3904	1003
181	3° 0.1'S	110° 0.1'W	17 Nov 99	859	120	7	3750	1004
191	4° 0.0'S	110° 0.0'W	17 Nov 99	1444	120	13	3811	1002
201	4° 59.9'S	110° 0.4'W	18 Nov 99	511	110	15	3522	1002
211	6° 0.0'S	110° 0.0'W	18 Nov 99	1114	95	13	3556	1000
221	7° 0.0'S	110° 0.0'W	18 Nov 99	1713	110	15	3460	1001
231	7° 59.1'S	109° 56.8'W	19 Nov 99	739	110	14	3494	3539
241	8° 0.4'S	95° 7.0'W	23 Nov 99	650	130	10	4023	4068
251	6° 59.9'S	94° 59.9'W	24 Nov 99	752	130	17	3963	1001
261	6° 0.0'S	95° 0.0'W	24 Nov 99	1342	158	15	3818	1001
271	5° 0.6'S	95° 3.8'W	24 Nov 99	2029	165	11	3819	1003
281	4° 0.0'S	95° 0.0'W	25 Nov 99	211	160	15	3732	1004
291	3° 0.2'S	95° 0.2'W	25 Nov 99	758	160	11	3540	1006
301	2° 30.2'S	95° 1.2'W	25 Nov 99	1126	143	7	2713	1002
311	1° 59.9'S	95° 5.8'W	26 Nov 99	205	133	8	3371	1001
321	1° 30.0'S	95° 1.0'W	26 Nov 99	614	125	5	3329	1001
331	1° 0.0'S	95° 0.0'W	26 Nov 99	933	135	8	3324	1001
341	0° 30.0'S	95° 1.6'W	26 Nov 99	1245	138	7	3366	1001
351	0° 6.9'N	94° 58.3'W	27 Nov 99	357	110	5	3346	1001
361	0° 30.2'N	95° 10.7'W	27 Nov 99	726	130	6	3314	1000
371	1° 0.1'N	95° 17.2'W	27 Nov 99	1039	140	15	3287	1002
381	1° 30.0'N	95° 19.5'W	27 Nov 99	1358	148	18	2799	1001
391	2° 2.9'N	95° 20.3'W	28 Nov 99	7	150	14	2758	1002
401	2° 30.0'N	95° 13.5'W	28 Nov 99	329	150	15	2548	1002
411	3° 0.0'N	95° 3.8'W	28 Nov 99	705	170	12	3117	1001
421	3° 32.7'N	95° 2.6'W	28 Nov 99	1253	190	18	3254	1000
431	4° 0.2'N	95° 0.1'W	28 Nov 99	2157	165	13	3470	1001
441	5° 2.6'N	94° 57.1'W	29 Nov 99	504	200	10	3580	1002
451	6° 0.0'N	95° 0.0'W	29 Nov 99	1016	135	11	3212	1001
461	7° 0.0'N	95° 0.0'W	29 Nov 99	1548	145	3	3679	1002
471	8° 4.3'N	94° 57.2'W	30 Nov 99	738	48	10	3655	1001
481	8° 59.9'N	95° 0.0'W	1 Dec 99	348	36	13	3540	1002
491	9° 56.8'N	94° 59.9'W	1 Dec 99	1004	30	10	3861	1001
501	11° 0.1'N	95° 0.0'W	2 Dec 99	10	20	12	4083	1002
511	12° 0.0'N	95° 0.0'W	2 Dec 99	644	15	16	4028	1002

GP9-99-KA CRUISE TRACK
November 20 - December 14, 1999
Suva, Fiji - Honolulu, HI

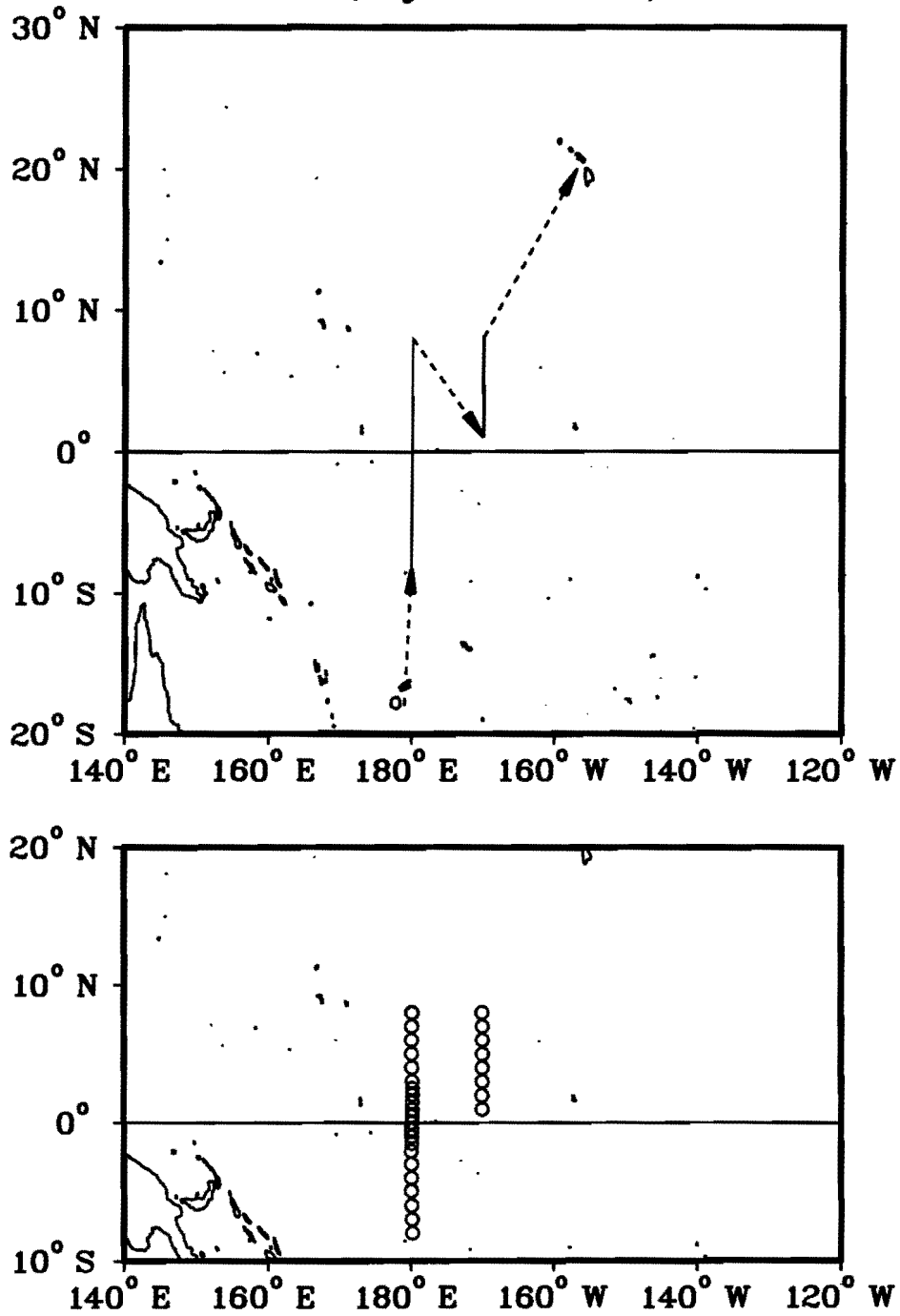


Figure 1h: GP9-99-KA cruise track and station locations.

Table 1h: GP9-99-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 58.6'S	179° 48.2'W	24 Nov 99	921	27	4	5546	1003
21	6° 59.6'S	179° 51.0'W	24 Nov 99	1639	48	13	5407	1001
31	6° 0.1'S	179° 53.9'W	24 Nov 99	2333	62	13	4823	1001
41	4° 56.2'S	179° 57.2'W	25 Nov 99	702	71	11	5620	1002
51	3° 59.6'S	179° 56.2'W	25 Nov 99	1336	69	17	6090	1003
61	3° 0.2'S	179° 55.4'W	25 Nov 99	2050	68	20	5402	1002
71	2° 3.5'S	179° 59.1'W	26 Nov 99	1108	48	19	5348	4006
72	2° 3.4'S	179° 59.1'W	26 Nov 99	2257	60	17	5338	204
81	1° 30.2'S	179° 52.9'W	27 Nov 99	325	60	12	5208	1002
91	1° 0.1'S	179° 52.9'W	27 Nov 99	748	73	13	5354	1002
101	0° 29.9'S	179° 53.0'W	27 Nov 99	1211	86	13	4513	1002
111	0° 1.4'N	179° 53.7'W	27 Nov 99	1853	111	10	5375	1002
121	0° 29.9'N	179° 52.9'W	28 Nov 99	725	94	14	5723	1002
122	0° 30.2'N	179° 52.9'W	28 Nov 99	835	94	14	5768	188
131	0° 59.9'N	179° 51.5'W	28 Nov 99	1253	106	16	5815	1002
141	1° 30.2'N	179° 50.2'W	28 Nov 99	1653	102	14	5575	1002
151	2° 2.6'N	179° 49.2'W	28 Nov 99	2106	102	13	5461	1004
161	2° 30.5'N	179° 49.8'W	29 Nov 99	55	101	14	5332	1002
171	3° 0.3'N	179° 50.7'W	29 Nov 99	432	107	10	5624	1003
181	3° 59.9'N	179° 53.1'W	29 Nov 99	1052	119	16	5734	1005
191	5° 0.5'N	179° 54.8'W	29 Nov 99	1759	110	14	5653	1002
201	6° 0.1'N	179° 53.4'W	30 Nov 99	101	81	24	5405	1004
211	6° 59.8'N	179° 52.4'W	30 Nov 99	841	80	12	5698	1003
221	7° 58.4'N	179° 49.6'W	30 Nov 99	1709	63	19	5867	4004
222	8° 0.4'N	179° 53.1'W	1 Dec 99	433	62	8	5950	202
231	2° 0.2'N	170° 3.7'W	5 Dec 99	348	101	20	5403	1003
241	1° 0.1'N	170° 2.7'W	5 Dec 99	1115	77	13	5455	1002
242	1° 0.4'N	170° 2.7'W	5 Dec 99	1231	108	12	5446	164
251	2° 59.7'N	170° 1.7'W	6 Dec 99	237	111	15	5468	1002
261	3° 59.2'N	170° 1.3'W	6 Dec 99	1012	120	14	5665	1004
271	4° 59.4'N	169° 58.9'W	6 Dec 99	1747	124	13	5783	1002
281	6° 0.5'N	169° 58.4'W	7 Dec 99	302	89	13	5438	4006
291	7° 0.1'N	169° 59.2'W	7 Dec 99	1106	83	12	4884	1002
301	7° 59.7'N	170° 1.9'W	8 Dec 99	240	54	12	5545	1004

GP1-00-KA CRUISE TRACK
February 1 - March 4, 2000
Honolulu, HI - San Diego, CA

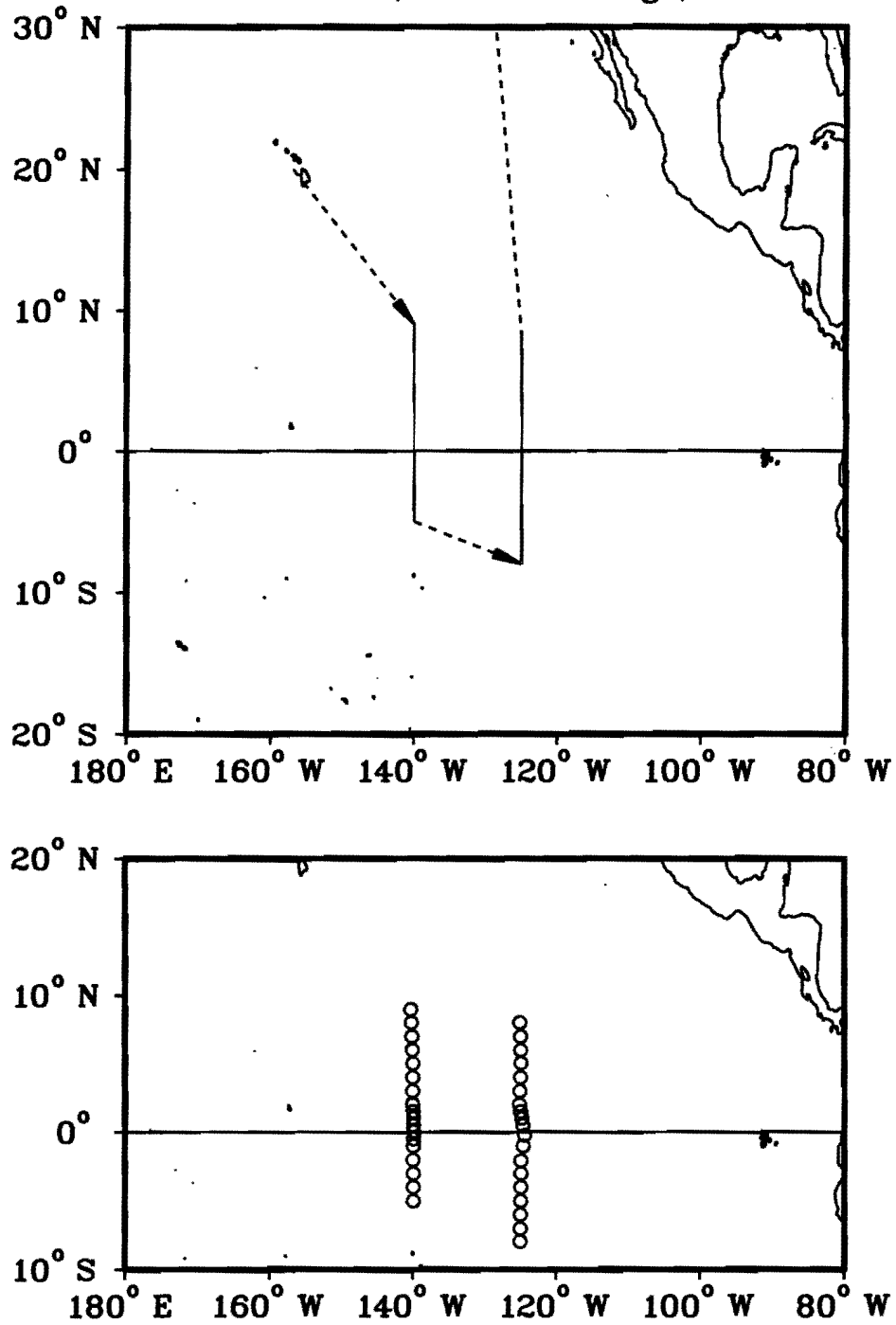


Figure 1i: GP1-00-KA cruise track and station locations.

Table 1i: GP1-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 59.1'N	140° 16.4'W	8 Feb 00	355	50	22	4815	1004
21	8° 0.8'N	140° 11.0'W	8 Feb 00	1136	42	21	5121	1002
31	7° 0.2'N	140° 6.4'W	8 Feb 00	1924	47	19	4948	1005
41	6° 0.3'N	140° 1.9'W	9 Feb 00	247	40	19	4789	1004
51	5° 1.6'N	139° 57.1'W	9 Feb 00	1036	75	8	4420	4007
61	4° 0.2'N	139° 59.2'W	10 Feb 00	1104	50	15	4320	1003
71	3° 0.1'N	139° 59.5'W	10 Feb 00	1959	56	6	4273	1002
81	2° 4.2'N	140° 1.0'W	11 Feb 00	843	38	7	4354	4004
82	1° 59.9'N	139° 59.7'W	11 Feb 00	1954	35	9	4345	202
91	1° 30.5'N	139° 56.9'W	12 Feb 00	42	39	10	4448	1013
101	1° 0.1'N	139° 55.7'W	12 Feb 00	515	75	11	4324	1005
111	0° 30.1'N	139° 54.4'W	12 Feb 00	938	52	8	4326	1003
121	0° 4.2'N	139° 53.4'W	12 Feb 00	1407	64	8	4313	4004
122	0° 2.0'N	139° 53.9'W	13 Feb 00	39	50	7	4331	204
131	0° 30.0'S	139° 54.0'W	13 Feb 00	435	72	9	4236	1002
141	0° 59.9'S	139° 55.2'W	13 Feb 00	821	94	5	4204	1001
151	2° 1.7'S	139° 58.6'W	13 Feb 00	1456	80	8	4380	1003
161	3° 0.9'S	139° 56.4'W	13 Feb 00	2344	97	10	4304	1002
171	3° 59.9'S	139° 56.2'W	14 Feb 00	617	95	11	4499	1003
181	5° 0.7'S	139° 55.8'W	14 Feb 00	1321	96	11	4258	1003
191	7° 56.7'S	125° 0.2'W	18 Feb 00	1836	194	9	4520	1002
201	7° 0.2'S	124° 58.9'W	19 Feb 00	225	223	7	4730	1003
211	5° 59.2'S	124° 58.4'W	19 Feb 00	910	352	12	4731	1003
221	4° 59.5'S	124° 56.7'W	19 Feb 00	2344	10	5	4515	1006
231	4° 0.0'S	124° 55.5'W	20 Feb 00	727	44	8	4426	1003
241	3° 0.0'S	124° 53.9'W	20 Feb 00	1503	48	10	4590	1005
251	2° 4.5'S	124° 53.4'W	20 Feb 00	2227	63	16	4707	1003
261	0° 59.4'S	124° 36.2'W	21 Feb 00	809	84	11	4659	1003
271	0° 13.5'S	124° 22.1'W	21 Feb 00	1435	88	17	4698	1003
281	0° 30.0'N	124° 37.0'W	22 Feb 00	540	70	13	4569	1003
291	1° 0.1'N	124° 46.4'W	22 Feb 00	1000	90	13	4571	1002
301	1° 30.1'N	124° 56.9'W	22 Feb 00	1412	80	17	4622	1005
311	2° 0.4'N	125° 6.2'W	22 Feb 00	1822	73	12	4644	1004
321	3° 0.2'N	125° 1.6'W	23 Feb 00	123	67	8	4435	1002
331	4° 0.2'N	124° 56.6'W	23 Feb 00	751	35	10	4491	1002
341	5° 3.4'N	124° 52.4'W	23 Feb 00	1504	40	15	4317	1004
351	6° 0.0'N	124° 54.0'W	23 Feb 00	2355	46	18	4401	1004
361	7° 0.2'N	124° 56.5'W	24 Feb 00	740	51	16	4599	1005
371	8° 1.7'N	125° 1.6'W	24 Feb 00	127	49	25	4617	1004

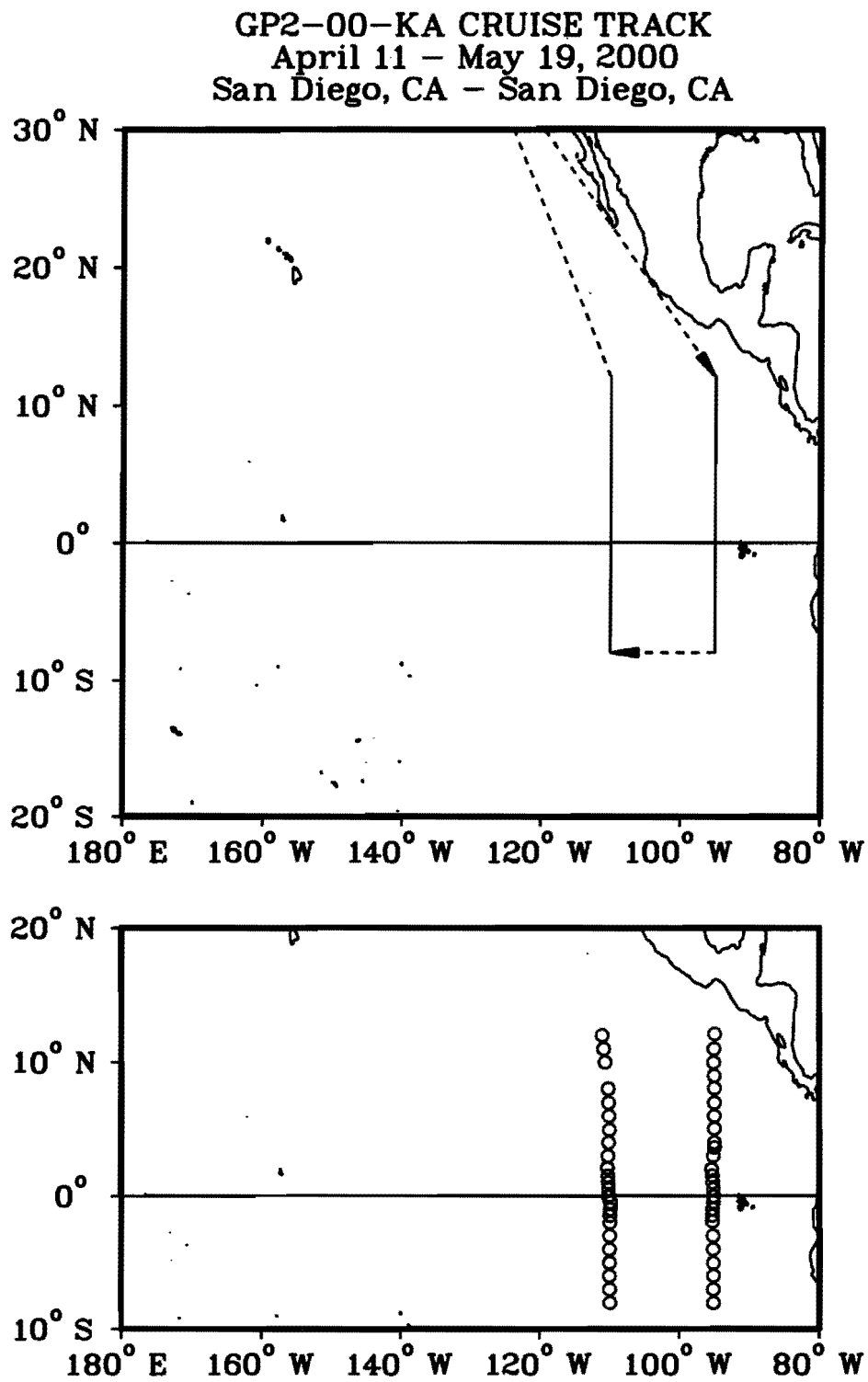


Figure 1j: GP2-00-KA cruise track and station locations.

Table 1j: GP2-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	12° 6.6'N	94° 53.8'W	21 Apr 00	130	74	4	4118	1004
21	10° 59.8'N	94° 59.8'W	21 Apr 00	930	69	2	4053	1004
31	9° 58.7'N	95° 2.3'W	21 Apr 00	2339	56	11	3854	1002
41	9° 0.1'N	94° 59.2'W	22 Apr 00	621	75	11	3532	1002
51	8° 4.9'N	94° 56.5'W	22 Apr 00	1305	31	7	3115	1004
61	7° 0.2'N	94° 56.7'W	23 Apr 00	429	47	7	5001	1003
71	6° 0.1'N	94° 56.5'W	23 Apr 00	1208	48	3	5014	1003
81	5° 3.2'N	94° 56.4'W	24 Apr 00	245	247	4	3579	1005
91	4° 0.0'N	94° 56.6'W	24 Apr 00	1116	178	1	3342	1002
101	3° 37.3'N	94° 56.1'W	24 Apr 00	2156	212	10	3376	1003
111	2° 59.7'N	95° 5.5'W	25 Apr 00	746	256	4	3155	1003
121	2° 0.3'N	95° 20.2'W	25 Apr 00	2044	107	4	2879	1004
131	1° 30.2'N	95° 15.4'W	26 Apr 00	140	105	3	2966	1005
141	1° 0.3'N	95° 11.3'W	26 Apr 00	605	88	7	3491	1004
151	0° 30.1'N	95° 7.1'W	26 Apr 00	1013	124	3	3284	1001
161	0° 1.6'S	95° 2.1'W	26 Apr 00	1824	95	7	3311	1002
171	0° 29.8'S	95° 5.8'W	26 Apr 00	2223	58	7	3373	1003
181	0° 59.8'S	95° 10.3'W	27 Apr 00	234	55	12	3310	1006
191	1° 29.6'S	95° 14.3'W	27 Apr 00	639	51	4	3365	1002
201	1° 56.5'S	95° 13.8'W	27 Apr 00	1126	40	1	3386	3003
202	1° 55.7'S	95° 11.3'W	27 Apr 00	1737	83	1	2806	202
211	3° 0.1'S	95° 8.6'W	28 Apr 00	114	168	5	3419	1002
221	4° 0.1'S	95° 6.7'W	28 Apr 00	823	156	5	3624	1005
231	5° 1.9'S	95° 4.8'W	28 Apr 00	2210	156	12	3833	1004
241	5° 59.8'S	95° 4.8'W	29 Apr 00	545	134	12	3896	1005
251	7° 0.7'S	95° 5.2'W	29 Apr 00	1415	125	12	4334	1003
261	8° 1.8'S	95° 3.9'W	30 Apr 00	407	130	11	3836	3004
262	8° 2.5'S	95° 4.7'W	30 Apr 00	1542	161	3	3798	202
271	8° 1.4'S	109° 55.3'W	4 May 00	1025	123	15	3500	1005
281	7° 0.1'S	109° 56.9'W	4 May 00	1823	70	6	3582	1002
291	6° 0.0'S	109° 58.7'W	5 May 00	208	113	17	3645	1004
301	5° 1.5'S	109° 58.6'W	5 May 00	1324	118	15	3477	3005
302	4° 59.4'S	109° 59.4'W	6 May 00	144	120	12	3611	202
311	3° 59.9'S	109° 58.1'W	6 May 00	908	102	3	3888	1003
321	2° 59.9'S	109° 56.7'W	6 May 00	1639	124	7	3957	1002
331	2° 0.8'S	109° 55.2'W	7 May 00	34	112	13	3984	1004
341	1° 29.6'S	109° 53.5'W	7 May 00	434	100	8	3927	1003
351	0° 59.9'S	109° 52.1'W	7 May 00	831	86	4	3878	1004
361	0° 29.8'S	109° 50.9'W	7 May 00	1233	117	8	3858	1005
371	0° 3.1'S	110° 9.2'W	8 May 00	1327	78	7	3788	3005
372	0° 0.8'N	110° 1.1'W	8 May 00	1751	200	3	3759	201
381	0° 29.8'N	110° 5.3'W	8 May 00	2249	117	5	3730	1002
391	1° 0.0'N	110° 9.0'W	9 May 00	306	137	5	3837	1005
401	1° 30.2'N	110° 12.3'W	9 May 00	726	153	8	3810	1003
411	2° 3.5'N	110° 16.6'W	9 May 00	1329	159	8	3768	3003
412	2° 7.3'N	110° 17.1'W	9 May 00	1743	133	8	3810	202
421	2° 59.9'N	110° 11.4'W	9 May 00	2355	157	11	3767	1003
431	3° 59.9'N	110° 4.9'W	10 May 00	705	174	9	3898	1006
441	4° 57.5'N	109° 58.3'W	10 May 00	1358	179	9	3877	1003
451	6° 0.2'N	110° 2.7'W	11 May 00	931	186	9	3486	1001
461	7° 0.3'N	110° 5.6'W	11 May 00	1717	185	1	3727	1002
471	8° 2.8'N	110° 9.0'W	12 May 00	354	354	12	3623	1003
481	10° 0.0'N	110° 35.9'W	12 May 00	2042	27	12	3626	1006
491	10° 59.8'N	110° 48.3'W	13 May 00	459	19	9	3916	1002
501	12° 0.3'N	111° 1.7'W	13 May 00	1253	31	13	3813	1002

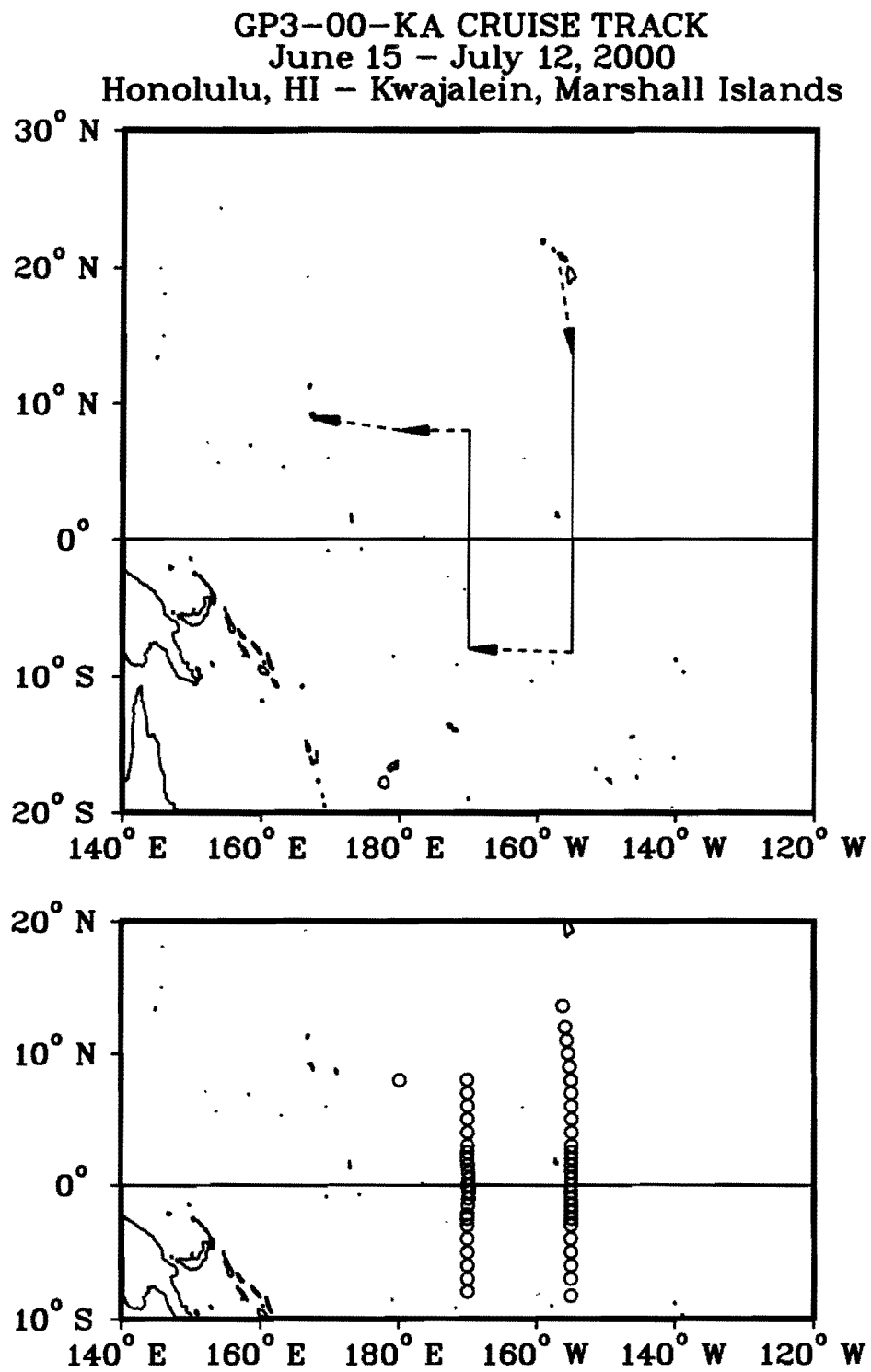


Figure 1k: GP3-00-KA cruise track and station locations.

Table 1k: GP3-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	13° 36.4'N	156° 12.6'W	17 Jun 00	2001	40	8		3503
21	12° 0.2'N	155° 51.3'W	18 Jun 00	808	76	10	5142	1001
31	11° 0.3'N	155° 38.4'W	18 Jun 00	1518	70	10	5224	1003
41	10° 0.1'N	155° 26.1'W	18 Jun 00	2248	334	2	5336	1002
51	9° 0.1'N	155° 13.4'W	19 Jun 00	532	43	5	5273	1002
61	7° 58.6'N	155° 0.9'W	19 Jun 00	1350	68	4	5147	3005
62	7° 56.3'N	155° 1.3'W	19 Jun 00	2338	50	4	5134	202
71	7° 0.1'N	154° 59.1'W	20 Jun 00	551	70	11	4942	1002
81	6° 0.3'N	154° 57.1'W	20 Jun 00	1230	140	10	4828	805
91	5° 0.5'N	154° 55.5'W	21 Jun 00	425	78	9	4594	1004
101	4° 0.2'N	154° 55.5'W	21 Jun 00	1117	95	7	4695	1002
111	3° 0.3'N	154° 56.7'W	21 Jun 00	1750	118	11	4803	1002
121	2° 30.0'N	154° 55.7'W	21 Jun 00	2137	124	13	4832	1004
131	2° 0.7'N	154° 56.3'W	22 Jun 00	905	131	8	4688	1004
141	1° 29.8'N	154° 57.6'W	22 Jun 00	1302	134	11	4663	1002
151	1° 0.3'N	154° 58.3'W	22 Jun 00	1649	130	10	4758	1004
161	0° 30.1'N	155° 0.2'W	22 Jun 00	2034	119	9	4789	1003
171	0° 0.5'N	155° 1.3'W	23 Jun 00	2258	96	8	4690	1004
181	0° 29.9'S	154° 59.5'W	23 Jun 00	635	80	12	4884	1004
191	0° 59.9'S	154° 58.9'W	23 Jun 00	1016	67	10	4743	1003
201	1° 30.1'S	154° 57.5'W	23 Jun 00	1345	52	10	4875	1002
211	2° 0.4'S	154° 57.0'W	24 Jun 00	201	55	11	4986	1002
221	2° 29.7'S	154° 57.2'W	24 Jun 00	555	86	13	4963	1004
231	2° 59.9'S	154° 59.1'W	24 Jun 00	949	47	8	4906	1001
241	3° 59.7'S	155° 1.6'W	24 Jun 00	1639	90	17	2397	1002
251	4° 59.3'S	155° 0.5'W	25 Jun 00	34	73	18	4769	1004
261	5° 59.9'S	155° 0.0'W	25 Jun 00	710	103	12	5305	1003
271	6° 59.7'S	155° 1.5'W	25 Jun 00	1359	90	10	5174	1002
281	8° 15.9'S	155° 0.6'W	25 Jun 00	2207	70	13	5335	1004
291	7° 56.6'S	170° 0.0'W	29 Jun 00	521	71	10	5346	4804
301	7° 0.0'S	170° 0.2'W	29 Jun 00	1236	80	15	4741	1004
311	5° 59.6'S	170° 0.3'W	29 Jun 00	1906	87	17	4806	1002
321	5° 0.6'S	170° 0.1'W	30 Jun 00	1122	87	15	5395	3004
331	3° 59.8'S	170° 1.9'W	30 Jun 00	1853	75	21	5725	5514
341	2° 59.9'S	170° 2.3'W	1 Jul 00	801	82	15	5289	1002
351	2° 29.8'S	170° 3.0'W	1 Jul 00	1151	90	13	5417	1002
361	2° 10.7'S	170° 2.2'W	1 Jul 00	1533	70	14	4968	3002
371	1° 29.6'S	169° 56.5'W	2 Jul 00	545	97	18	5202	1003
381	0° 59.6'S	169° 52.7'W	2 Jul 00	947	94	16	5630	1001
391	0° 30.3'S	169° 48.3'W	2 Jul 00	1334	90	17	5600	1008
401	0° 1.2'S	170° 0.7'W	3 Jul 00	1409	80	14	5587	4313
402	0° 0.3'S	169° 44.4'W	4 Jul 00	322	94	19	5421	5108
411	0° 30.0'N	169° 48.8'W	4 Jul 00	1111	92	17	5433	1002
421	1° 0.5'N	169° 53.0'W	4 Jul 00	1504	90	15	5559	1004
431	1° 30.3'N	169° 57.2'W	4 Jul 00	1851	90	18	5527	1003
441	2° 1.5'N	170° 2.8'W	4 Jul 00	2318	103	24	5401	1050
451	2° 30.2'N	170° 1.1'W	5 Jul 00	314	97	18	5336	1001
461	3° 0.0'N	170° 0.3'W	5 Jul 00	654	96	17	5471	1001
471	4° 0.1'N	169° 59.7'W	5 Jul 00	1324	100	14	5414	1003
481	5° 0.3'N	170° 0.3'W	6 Jul 00	358	88	15	5753	1003
491	6° 0.7'N	169° 59.7'W	6 Jul 00	1114	55	12		1003
501	7° 0.3'N	170° 1.2'W	6 Jul 00	1742	70	13		1004
511	8° 0.5'N	170° 3.4'W	7 Jul 00	21	96	9	5545	1003
521	7° 59.4'N	179° 53.7'W	9 Jul 00	1353	0	0	5949	1002

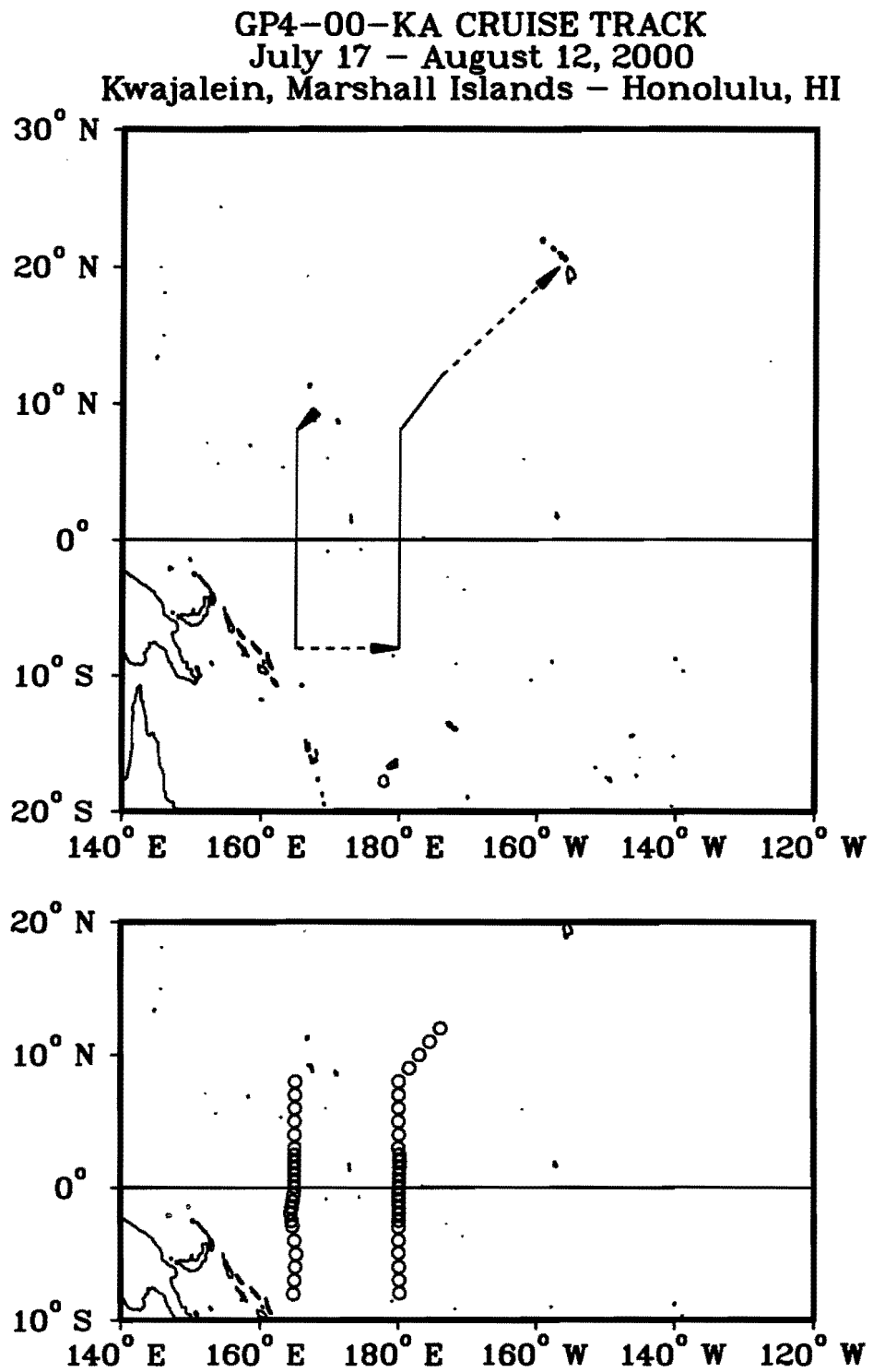


Figure 11: GP4-00-KA cruise track and station locations.

Table 11: GP4-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 59.7'N	165° 6.4'E	19 Jul 00	330	137	7	5213	1002
21	7° 0.0'N	165° 5.2'E	19 Jul 00	1008	103	12	5167	1001
31	6° 0.2'N	165° 3.4'E	19 Jul 00	1628	97	11	5013	1002
41	5° 2.0'N	165° 0.9'E	20 Jul 00	520	39	14	4779	1002
51	4° 0.0'N	165° 0.7'E	21 Jul 00	528	196	0	4489	1003
61	2° 59.8'N	165° 0.3'E	21 Jul 00	1207	256	3	4252	1002
71	2° 29.9'N	164° 59.7'E	21 Jul 00	1556	157	3	4121	1003
81	1° 59.4'N	165° 0.5'E	21 Jul 00	2345	187	5	4171	1002
91	1° 29.6'N	164° 59.6'E	22 Jul 00	405	290	22	4259	1008
101	0° 59.8'N	165° 0.7'E	22 Jul 00	812	234	10	4330	1001
111	0° 29.8'N	165° 1.3'E	22 Jul 00	1227	257	8	4368	1002
121	0° 2.5'N	165° 0.5'E	23 Jul 00	504	178	2	4404	1003
131	0° 30.1'S	164° 51.3'E	23 Jul 00	922	97	3	4450	1002
141	1° 0.0'S	164° 42.9'E	23 Jul 00	1325	85	5	4417	1001
151	1° 29.9'S	164° 33.4'E	23 Jul 00	1655	70	8	4421	179
161	1° 55.4'S	164° 24.1'E	24 Jul 00	217	29	9	4435	1003
171	2° 29.6'S	164° 33.8'E	24 Jul 00	645	74	5	4466	1003
181	2° 54.9'S	164° 41.2'E	24 Jul 00	1038	76	5	3953	1002
191	3° 59.9'S	164° 57.2'E	24 Jul 00	1725	150	2	3182	1002
201	5° 0.8'S	165° 12.6'E	25 Jul 00	248	83	6	2516	1019
211	5° 59.9'S	165° 5.1'E	25 Jul 00	940	86	6	3606	1003
221	6° 59.7'S	164° 56.9'E	25 Jul 00	1641	130	7	3717	1001
231	8° 1.0'S	164° 47.5'E	26 Jul 00	607	132	9	3888	1001
241	7° 57.8'S	179° 48.0'W	30 Jul 00	441	117	11	5546	1002
251	6° 59.6'S	179° 50.9'W	30 Jul 00	1101	116	13	5519	1002
261	5° 59.9'S	179° 53.6'W	30 Jul 00	1729	116	14	5893	1002
271	4° 56.3'S	179° 56.8'W	31 Jul 00	851	74	12	5670	1001
281	3° 59.6'S	179° 55.4'W	31 Jul 00	1655	55	8	5587	1005
291	3° 0.5'S	179° 55.4'W	1 Aug 00	21	67	2	5408	1004
301	2° 30.0'S	179° 54.9'W	1 Aug 00	440	61	7	5407	1003
311	1° 58.9'S	179° 53.6'W	1 Aug 00	903	51	13	5336	1003
321	1° 30.0'S	179° 54.4'W	1 Aug 00	1300	45	14	5253	1005
331	0° 59.6'S	179° 54.8'W	1 Aug 00	1733	77	13	5351	1003
341	0° 29.8'S	179° 54.8'W	1 Aug 00	2140	72	14	4902	1004
351	0° 1.3'N	179° 54.8'W	2 Aug 00	206	67	14	5393	1002
361	0° 30.1'N	179° 53.6'W	2 Aug 00	610	80	13	5744	1004
371	1° 0.1'N	179° 52.3'W	2 Aug 00	1017	61	9	5792	1005
381	1° 30.2'N	179° 49.5'W	2 Aug 00	1437	54	16	5573	1003
391	2° 1.2'N	179° 47.8'W	3 Aug 00	305	83	10	5468	1002
401	2° 29.8'N	179° 49.0'W	3 Aug 00	716	119	8	5313	1004
411	3° 0.4'N	179° 58.5'W	3 Aug 00	1119	120	8	4695	1002
421	4° 0.3'N	179° 52.8'W	3 Aug 00	1739	99	7	5760	1002
431	5° 0.3'N	179° 55.9'W	4 Aug 00	840	29	5	5641	1001
441	6° 0.4'N	179° 54.7'W	4 Aug 00	1546	41	11	5594	1002
451	7° 0.3'N	179° 53.8'W	4 Aug 00	2207	62	11	5882	1003
461	7° 59.7'N	179° 53.8'W	5 Aug 00	535	78	14	5944	1002
471	9° 0.2'N	178° 23.1'W	5 Aug 00	1800	74	16	5954	1002
481	10° 0.4'N	176° 55.3'W	6 Aug 00	631	60	14	6068	1003
491	11° 0.0'N	175° 24.1'W	6 Aug 00	1919	70	20	5439	1002
501	12° 0.0'N	173° 52.8'W	7 Aug 00	913	67	17	5528	1003

GP5-00-KA CRUISE TRACK
August 29 – October 1, 2000
Honolulu, HI – Honolulu, HI

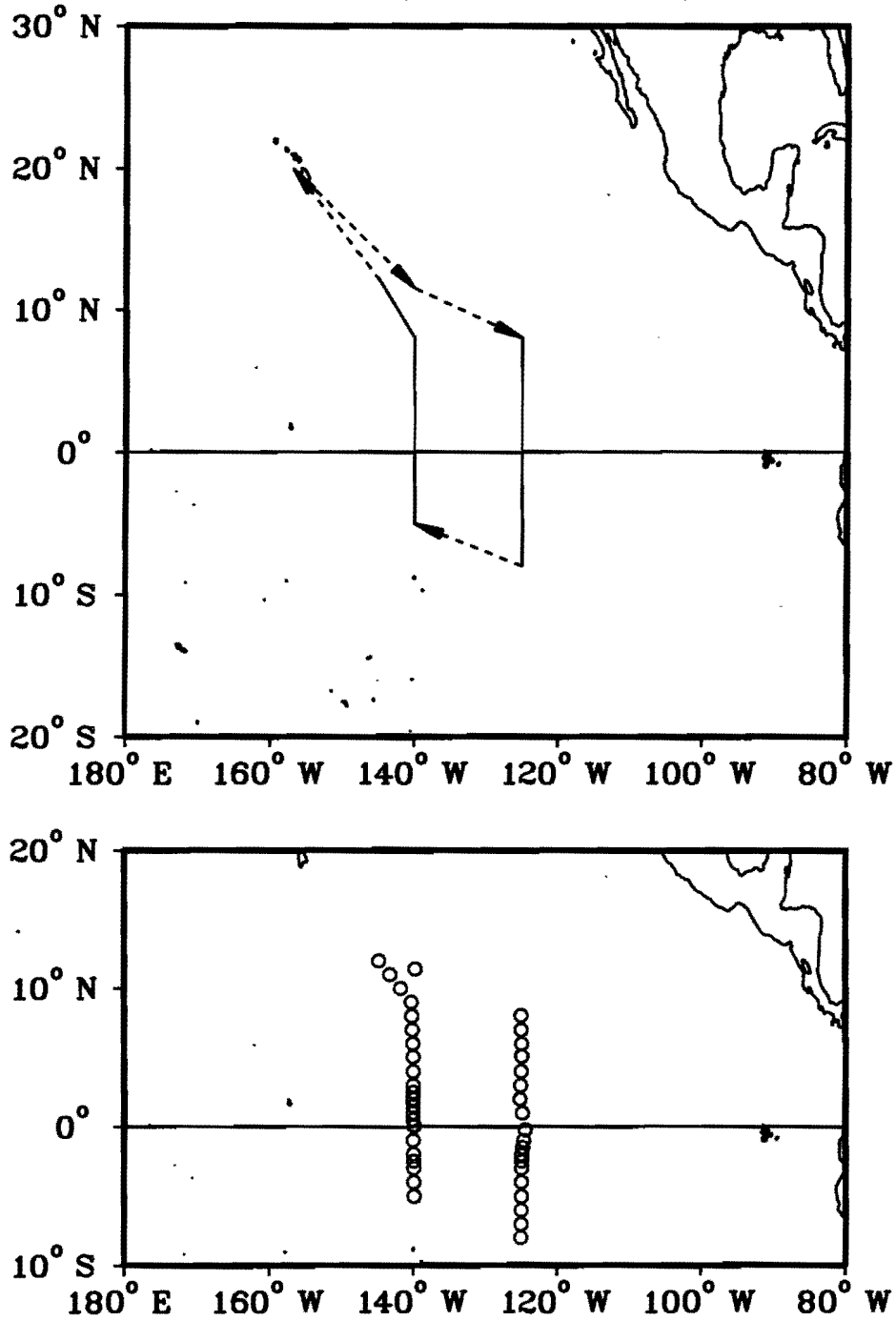


Figure 1m: GP5-00-KA cruise track and station locations.

Table 1m: GP5-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	11° 25.1'N	139° 44.0'W	5 Sep 00	150	229	13	5007	4004
21	8° 2.3'N	124° 58.3'W	8 Sep 00	2354	176	22	4656	1000
31	6° 59.8'N	124° 57.1'W	9 Sep 00	953	175	18	4647	1001
41	5° 59.8'N	124° 52.8'W	9 Sep 00	2010	165	2		1014
51	5° 5.0'N	124° 50.5'W	10 Sep 00	844	162	17	4360	4002
52	5° 5.9'N	124° 53.4'W	10 Sep 00	2326	160	16	4367	201
61	4° 0.5'N	124° 56.8'W	11 Sep 00	822	117	11	4500	1001
71	3° 0.5'N	125° 1.7'W	11 Sep 00	1732	187	11	4456	1003
81	1° 59.8'N	125° 6.6'W	12 Sep 00	826	132	15	4718	4003
82	2° 0.8'N	125° 8.2'W	13 Sep 00	129	140	17	4685	201
91	0° 59.8'N	124° 47.2'W	13 Sep 00	1038	134	15	4611	1002
101	0° 13.6'S	124° 23.8'W	13 Sep 00	2034	107	19	4044	1003
111	1° 0.1'S	124° 36.6'W	14 Sep 00	157	91	14	4704	1005
121	1° 30.3'S	124° 45.8'W	14 Sep 00	602	89	16	4585	1003
131	2° 0.6'S	124° 53.2'W	14 Sep 00	1034	80	12	4727	4005
132	2° 3.3'S	124° 54.4'W	14 Sep 00	2321	120	16	4825	202
141	2° 30.2'S	124° 54.9'W	15 Sep 00	306	70	8	4585	1003
151	2° 59.8'S	124° 54.4'W	15 Sep 00	651	78	17	4620	1003
161	3° 59.9'S	124° 55.5'W	15 Sep 00	1347	110	13	4518	1010
171	5° 1.8'S	124° 55.7'W	15 Sep 00	2108	96	12	4549	1000
181	5° 59.7'S	124° 57.4'W	16 Sep 00	407	94	15	4564	1001
191	6° 59.8'S	124° 58.9'W	16 Sep 00	1146	187	17	4768	1002
201	7° 58.5'S	125° 1.3'W	17 Sep 00	445	128	16	4506	1004
211	5° 0.6'S	139° 53.4'W	20 Sep 00	1542	96	12	4355	1002
221	4° 0.1'S	139° 55.6'W	21 Sep 00	657	146	14	4509	1003
231	2° 59.6'S	139° 56.1'W	21 Sep 00	1352	117	11	4438	1003
241	2° 29.7'S	139° 56.6'W	21 Sep 00	1756	91	13	4408	1003
251	1° 59.0'S	139° 57.0'W	22 Sep 00	531	108	13	4301	1002
261	0° 59.6'S	140° 0.3'W	22 Sep 00	1211	89	12	4265	1005
271	0° 6.3'N	139° 51.4'W	23 Sep 00	806	86	14	4304	4004
272	0° 1.9'N	139° 53.3'W	23 Sep 00	1856	110	14	4350	204
281	0° 30.6'N	140° 1.0'W	24 Sep 00	19	116	16	4352	1007
291	1° 0.6'N	139° 59.9'W	24 Sep 00	350	109	12	4298	1001
301	1° 30.3'N	140° 0.0'W	24 Sep 00	735	108	13	4427	1004
311	2° 0.7'N	139° 59.1'W	24 Sep 00	1111	106	12	4372	1006
321	2° 30.6'N	139° 59.7'W	24 Sep 00	1500	129	12	4377	1003
331	3° 0.4'N	139° 59.3'W	24 Sep 00	1827	114	12	4293	1004
341	4° 0.3'N	139° 59.0'W	25 Sep 00	45	94	12	4336	1002
351	5° 2.8'N	139° 59.1'W	25 Sep 00	814	158	12	4457	1004
361	5° 59.8'N	140° 2.1'W	25 Sep 00	1450	142	12	4818	1004
371	7° 0.0'N	140° 6.1'W	25 Sep 00	2216	170	10	4990	1004
381	7° 59.9'N	140° 11.4'W	26 Sep 00	549	29	4	5145	1004
391	9° 0.8'N	140° 15.1'W	26 Sep 00	1434	18	16	4826	4005
401	10° 0.0'N	141° 44.9'W	27 Sep 00	1010	83	11	5040	1004
411	11° 0.0'N	143° 13.9'W	27 Sep 00	2112	99	7	5329	1002
421	12° 0.2'N	144° 46.3'W	28 Sep 00	822	69	13	5240	1002

GP6-00-KA CRUISE TRACK
October 14 – November 10, 2000
Honolulu, HI – Kwajalein, Marshall Islands

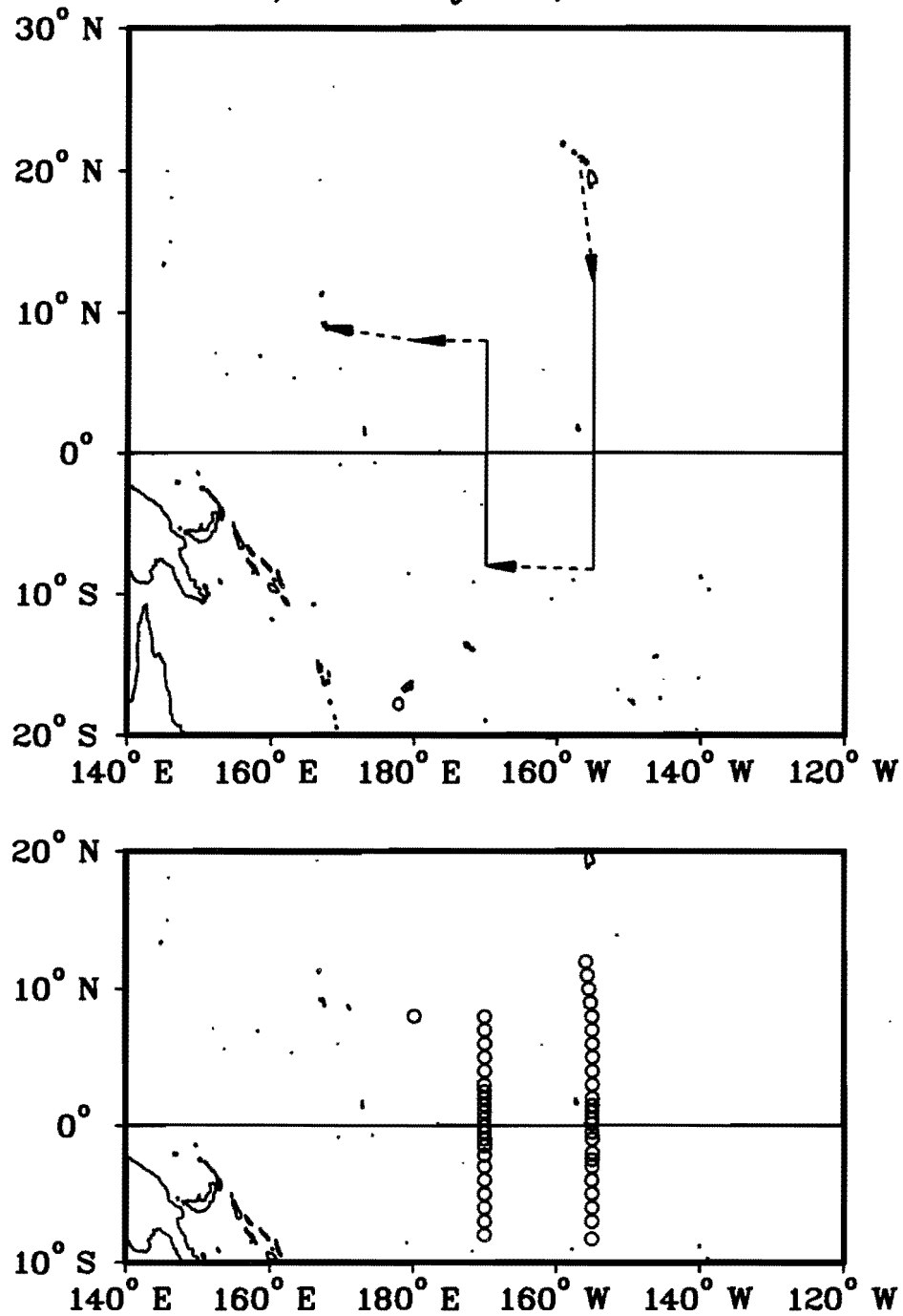


Figure 1n: GP6-00-KA cruise track and station locations.

Table 1n: GP6-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	11° 59.6'N	155° 52.1'W	17 Oct 00	1209	90	20	5220	1004
21	11° 0.5'N	155° 39.6'W	17 Oct 00	1934	62	15	5196	1003
31	10° 0.5'N	155° 26.7'W	18 Oct 00	326	50	13	5557	1003
41	9° 0.1'N	155° 13.3'W	18 Oct 00	1052	121	7	5278	1002
51	7° 59.6'N	155° 0.4'W	18 Oct 00	1900	102	5	5207	4203
61	7° 0.3'N	154° 58.1'W	19 Oct 00	425	124	5	5150	1004
71	6° 0.0'N	154° 56.5'W	19 Oct 00	1120	138	4	4824	1001
81	5° 1.0'N	154° 55.0'W	19 Oct 00	1817	135	14	4596	1002
91	3° 59.8'N	154° 56.3'W	20 Oct 00	201	115	18	4700	1003
101	3° 0.1'N	154° 56.5'W	20 Oct 00	845	98	24	4798	1003
111	2° 1.6'N	154° 57.4'W	20 Oct 00	1536	107	20	4879	1006
121	1° 29.2'N	154° 58.4'W	20 Oct 00	2009	104	24	4647	1003
131	1° 0.6'N	155° 0.4'W	21 Oct 00	224	101	17		1003
141	0° 30.0'N	155° 0.6'W	21 Oct 00	819	89	18	4761	1002
151	0° 7.6'N	155° 2.3'W	21 Oct 00	1407	83	19	4683	1002
161	0° 29.6'S	154° 58.8'W	22 Oct 00	612	88	15	4882	1004
171	0° 59.3'S	154° 57.9'W	22 Oct 00	1031	105	17	4736	1003
181	1° 58.9'S	154° 56.1'W	22 Oct 00	1742	91	19	5076	1003
191	2° 29.8'S	154° 58.6'W	22 Oct 00	2213	96	16	5012	1012
201	2° 59.8'S	154° 59.2'W	23 Oct 00	323	92	17	5095	1003
211	3° 59.4'S	155° 1.9'W	23 Oct 00	1023	97	14	4865	1002
221	4° 58.3'S	154° 59.4'W	23 Oct 00	1713	69	13	5356	1004
231	5° 59.9'S	154° 59.7'W	24 Oct 00	853	76	17	5266	1002
241	6° 59.7'S	155° 0.4'W	24 Oct 00	1527	62	12	5261	1004
251	8° 15.9'S	155° 1.3'W	25 Oct 00	721	92	17	5344	1002
261	7° 58.8'S	170° 3.0'W	29 Oct 00	239	83	10	5375	1003
271	6° 59.7'S	170° 0.7'W	29 Oct 00	938	87	13	4731	1004
281	5° 59.6'S	170° 0.6'W	29 Oct 00	1624	65	13	4928	1002
291	5° 0.8'S	170° 1.4'W	29 Oct 00	2331	66	10	5426	1004
301	3° 59.5'S	170° 1.6'W	30 Oct 00	638	59	7	5757	1003
311	2° 59.7'S	170° 2.5'W	30 Oct 00	1314	72	8	5682	1003
321	2° 9.4'S	170° 1.9'W	31 Oct 00	323	79	11	4951	1004
331	1° 29.7'S	170° 1.0'W	31 Oct 00	825	53	10	5590	1004
341	0° 59.6'S	170° 3.7'W	31 Oct 00	1219	44	10	5368	1004
351	0° 29.7'S	170° 2.8'W	31 Oct 00	1600	101	7	5609	1002
361	0° 2.2'S	170° 3.7'W	1 Nov 00	615	106	9	5566	601
371	0° 30.0'N	170° 3.1'W	1 Nov 00	945	113	12	5598	1003
381	0° 59.9'N	170° 3.0'W	1 Nov 00	1330	129	9	5469	1004
391	1° 30.1'N	170° 3.1'W	1 Nov 00	1707	129	11	5503	1002
401	2° 0.9'N	170° 3.5'W	2 Nov 00	611	110	11	5400	1003
411	2° 29.8'N	170° 2.9'W	2 Nov 00	1015	126	15	5325	1003
421	2° 59.8'N	170° 2.7'W	2 Nov 00	1416	137	18	5451	1003
431	3° 59.9'N	170° 0.3'W	2 Nov 00	2101	128	17	5672	1002
441	4° 59.3'N	169° 59.6'W	3 Nov 00	356	183	11	5312	1002
451	6° 0.0'N	169° 59.2'W	3 Nov 00	1035	67	12	5410	1003
461	6° 59.9'N	170° 0.6'W	3 Nov 00	1707	38	13	5921	1002
471	7° 58.4'N	170° 1.2'W	4 Nov 00	819	73	14	5530	1002
481	8° 0.7'N	179° 51.7'W	6 Nov 00	2310	55	11	5927	4102

Table 1o: GP7-00-RB CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	8° 3.2'N	110° 10.2'W	22 Oct 00	806	250	8	4280	4002
21	7° 0.0'N	111° 38.9'W	23 Oct 00	416	190	13	4285	1002
31	6° 0.0'N	112° 59.0'W	23 Oct 00	1327	180	16	4007	1002
41	5° 10.6'N	113° 54.3'W	23 Oct 00	2325	166	6	3914	1001
51	4° 0.0'N	112° 27.4'W	24 Oct 00	916	160	12	3922	1002
61	3° 0.0'N	111° 13.6'W	24 Oct 00	1801	165	18	3790	1003
71	2° 29.8'N	110° 37.2'W	24 Oct 00	2311	150	18	3726	1000
81	2° 0.9'N	110° 2.2'W	25 Oct 00	1049	140	16	3718	3002
91	1° 30.0'N	110° 0.0'W	25 Oct 00	1505	140	17	3778	1001
101	1° 0.1'N	110° 0.0'W	25 Oct 00	1840	150	16	3811	1008
111	0° 29.6'N	110° 2.0'W	25 Oct 00	2210	160	15	3807	1002
121	0° 8.0'N	110° 3.5'W	26 Oct 00	714	130	8	3815	3252
131	0° 30.0'S	110° 0.2'W	27 Oct 00	544	105	9	3801	1002
141	1° 59.4'S	110° 0.8'W	28 Oct 00	137	120	12	3964	3252
151	2° 30.0'S	110° 0.4'W	28 Oct 00	541	115	14	3930	1003
161	2° 59.9'S	110° 0.2'W	28 Oct 00	909	105	13	3783	1004
171	4° 0.0'S	110° 0.1'W	28 Oct 00	1458	90	12	3824	1002
181	5° 1.2'S	109° 59.9'W	28 Oct 00	2152	115	15	3578	3251
191	6° 0.0'S	109° 58.6'W	29 Oct 00	349	125	15	3801	1000
201	7° 0.0'S	109° 57.0'W	29 Oct 00	929	125	12	3512	1001
211	8° 0.0'S	109° 58.8'W	30 Oct 00	630	125	15	3422	3154
221	7° 59.6'S	95° 5.2'W	3 Nov 00	1023	110	13	3810	3252
231	6° 59.9'S	95° 4.9'W	3 Nov 00	1640	100	13	3921	1005
241	5° 59.9'S	95° 5.0'W	3 Nov 00	2259	125	12	3899	1003
251	4° 59.4'S	95° 5.1'W	4 Nov 00	500	135	12	3783	3254
261	3° 59.9'S	95° 7.3'W	4 Nov 00	1107	130	10	3596	1003
271	3° 0.0'S	95° 9.6'W	4 Nov 00	1640	135	11	3570	1002
281	2° 30.0'S	95° 10.7'W	4 Nov 00	2001	130	13	3445	1003
291	1° 58.1'S	95° 11.7'W	5 Nov 00	726	155	8	3398	3253
301	1° 30.0'S	95° 13.7'W	5 Nov 00	1319	155	9	3372	1000
311	1° 0.0'S	95° 15.6'W	5 Nov 00	1641	165	8	2942	1002
321	0° 29.9'S	95° 17.5'W	5 Nov 00	2001	160	13	3309	1002
331	0° 4.2'N	95° 21.8'W	6 Nov 00	350	160	13	3278	3252
341	0° 30.3'N	95° 4.0'W	7 Nov 00	127	145	13	3304	1002
351	1° 0.0'N	95° 11.8'W	7 Nov 00	456	150	15	3122	1002
361	1° 30.0'N	95° 19.5'W	7 Nov 00	821	160	10	2869	1002
371	2° 0.5'N	94° 59.4'W	8 Nov 00	326	170	11	3044	2902
381	2° 30.1'N	94° 58.4'W	8 Nov 00	722	175	9	2617	1003
391	3° 0.0'N	94° 57.5'W	8 Nov 00	1042	195	7	2758	1001
401	3° 39.7'N	94° 56.8'W	8 Nov 00	1612	205	12	3222	3052
411	5° 5.9'N	95° 0.0'W	9 Nov 00	517	210	13	3524	3102
421	6° 0.0'N	94° 58.7'W	9 Nov 00	1255	230	13	3238	1001
431	7° 0.0'N	94° 57.2'W	9 Nov 00	1821	240	14	3706	1001
441	8° 4.4'N	94° 53.6'W	10 Nov 00	412	285	12	3639	3077
451	9° 0.1'N	94° 59.6'W	11 Nov 00	230	285	5	3554	1001
461	10° 2.0'N	95° 1.7'W	11 Nov 00	846	270	3	3857	3002
471	11° 0.0'N	94° 54.8'W	12 Nov 00	335	0	0	3976	1000
482	12° 3.3'N	94° 58.8'W	12 Nov 00	2300	0	0	4094	3563

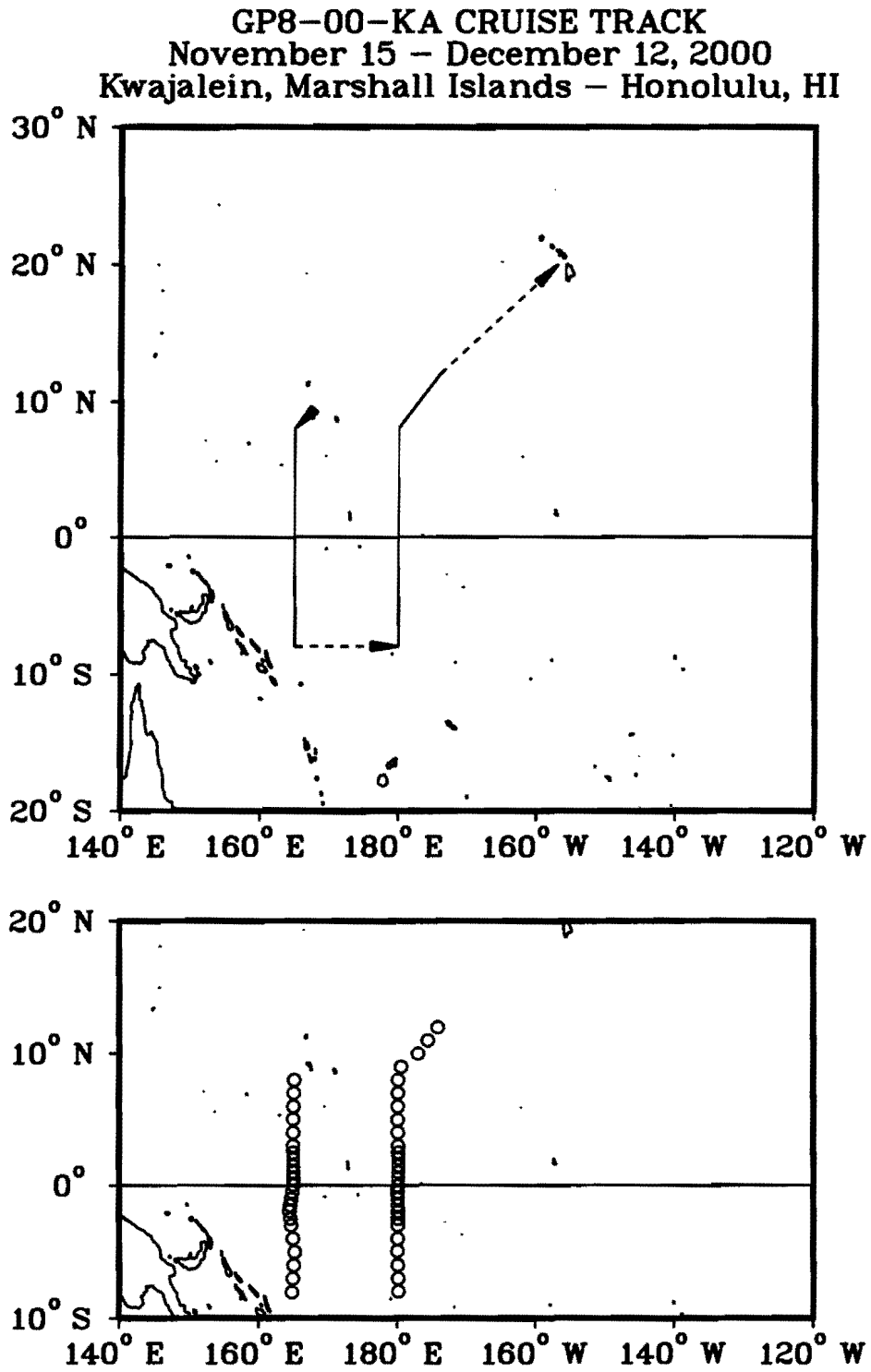


Figure 1p: GP8-00-KA cruise track and station locations.

Table 1p: GP8-00-KA CTD Cast Summary.

Cast #	Latitude	Longitude	Date	Time	W/D T	W/S (kts)	Depth (m)	Cast (db)
11	7° 59.5'N	165° 8.3'E	16 Nov 00	2357	61	15	5212	1001
21	7° 0.3'N	165° 5.3'E	17 Nov 00	727	77	20	5168	1002
31	6° 0.1'N	165° 3.2'E	17 Nov 00	1431	124	13	5257	1001
41	5° 1.4'N	165° 1.1'E	18 Nov 00	352	126	18	4774	1004
51	4° 0.6'N	165° 0.5'E	18 Nov 00	1204	74	12	4495	1003
61	3° 0.4'N	164° 59.6'E	18 Nov 00	1957	73	9	4227	1003
71	2° 30.0'N	164° 59.6'E	19 Nov 00	15	71	70	4120	1001
81	1° 59.7'N	164° 59.8'E	19 Nov 00	455	62	4	4171	1004
91	1° 30.0'N	164° 59.6'E	19 Nov 00	857	76	3	4258	1003
101	1° 0.0'N	164° 59.6'E	19 Nov 00	1257	54	2	4328	1001
111	0° 29.9'N	165° 0.0'E	19 Nov 00	1649	86	1	4365	1004
121	0° 1.9'N	165° 2.3'E	20 Nov 00	933	359	4	4407	1004
131	0° 30.0'S	164° 51.5'E	20 Nov 00	1348	327	5	4434	1002
141	1° 0.5'S	164° 41.2'E	20 Nov 00	1736	300	4	4417	1002
151	1° 30.0'S	164° 32.4'E	20 Nov 00	2136	328	2	4420	1003
161	1° 56.1'S	164° 25.4'E	21 Nov 00	114	998	3	4432	1003
171	2° 29.6'S	164° 34.2'E	21 Nov 00	530	169	6	4465	1003
181	3° 0.0'S	164° 40.7'E	21 Nov 00	919	159	8	4073	1002
191	3° 59.9'S	164° 56.5'E	21 Nov 00	1608	55	3	4449	1003
201	5° 0.7'S	165° 12.3'E	22 Nov 00	332	84	6	2556	1002
211	5° 59.9'S	165° 3.8'E	22 Nov 00	1021	157	10	3600	1003
221	6° 59.9'S	164° 56.0'E	22 Nov 00	1701	116	5	3739	1004
231	8° 2.4'S	164° 47.9'E	23 Nov 00	37	169	4	3892	1001
241	7° 58.8'S	179° 48.6'W	27 Nov 00	618	61	11	5550	1003
251	7° 0.0'S	179° 50.5'W	27 Nov 00	1321	44	14	5440	1002
261	5° 59.7'S	179° 53.4'W	27 Nov 00	2009	11	20	5076	1004
271	4° 56.5'S	179° 56.8'W	28 Nov 00	326	49	18	5614	1002
281	4° 0.0'S	179° 55.1'W	28 Nov 00	1037	69	12	5614	1005
291	2° 59.6'S	179° 54.7'W	28 Nov 00	1741	76	19	5456	1003
301	2° 30.0'S	179° 54.4'W	28 Nov 00	2131	78	18		1003
311	1° 59.7'S	179° 53.1'W	29 Nov 00	923	58	18	5332	1002
321	1° 29.9'S	179° 54.4'W	29 Nov 00	1347	76	19	5239	1003
331	0° 59.6'S	179° 55.1'W	29 Nov 00	1741	80	16	5756	1004
341	0° 30.0'S	179° 55.7'W	29 Nov 00	2141	69	21		1004
351	0° 2.0'S	179° 55.7'W	30 Nov 00	858	79	18		1004
361	0° 30.1'N	179° 54.4'W	30 Nov 00	1304	94	16	5739	1002
371	1° 0.2'N	179° 52.1'W	30 Nov 00	1659	105	19	5562	1003
381	1° 29.9'N	179° 50.4'W	30 Nov 00	2057	99	18		1001
391	2° 3.1'N	179° 48.4'W	1 Dec 00	208	90	13	5463	4005
401	2° 30.0'N	179° 49.3'W	1 Dec 00	629	77	15	5332	1003
411	2° 59.9'N	179° 50.2'W	1 Dec 00	1014	108	15		1002
421	4° 0.3'N	179° 51.8'W	1 Dec 00	1658	108	20		1004
431	4° 58.4'N	179° 54.1'W	1 Dec 00	2334	115	17		1003
441	5° 59.9'N	179° 53.2'W	2 Dec 00	727	132	16	5382	1006
451	7° 0.1'N	179° 52.2'W	2 Dec 00	1440	107	15	5754	1016
461	8° 0.1'N	179° 51.5'W	2 Dec 00	2124	100	6	5948	1003
471	8° 59.9'N	179° 25.2'W	3 Dec 00	843	76	21	5792	1007
481	10° 0.0'N	176° 59.7'W	3 Dec 00	2203	67	23	6001	1002
491	11° 0.1'N	175° 33.0'W	4 Dec 00	1109	60	14	5485	1007
501	12° 0.1'N	174° 6.7'W	4 Dec 00	2338	52	21	5654	1004

Table 2: Drift and viscous heating corrections for CTD temperature calibrations.

Cruise	Temp. Sensor S/N	Drift Correction °C	Viscous Heat Correction °C
GP199	2026	0.0009	-0.0006
GP299	2026	-0.0007	-0.0006
GP399	2026	-0.0004	-0.0006
GP499	2027	0.0009	-0.0006
GP599	2027	0.0010	-0.0006
GP799	2027	0.0011	-0.0006
GP899	1455	0.0000	-0.0006
GP999	2027	0.0012	-0.0006
GP100	2027	0.0014	-0.0006
GP200	2027	0.0004	-0.0006
GP300	2027	0.0001	-0.0006
GP400	2027	0.0002	-0.0006
GP500	2027	0.0003	-0.0006
GP600	2027	0.0004	-0.0006
GP700	1370	0.0003	-0.0006
GP800	2027	0.0005	-0.0006

Table 3: Station groupings for CTD conductivity calibrations.

Cruise	Stations	Sensor S/N	Standard Seawater	Fitting Routine	Points Used	Total Points	Percent Points Used	Fit Standard Deviation (mS/cm)	Conductivity		Pressure Correction		Minimum Fit Slope	Maximum Fit Slope
									Fit Bias (mS/cm)	Beta	Beta			
GP199	1-30	1536	P127	Calcop1	274	338	81.07	0.001412	-0.008628812	8.2780992e-007	0.99999816	0.99999999		
GP299	1-43	1536	P135	Calcop3	374	498	75.10	0.001527	-0.006724099	2.5925486e-007	1.0001957	1.0003050		
GP399	1-38	1536	P135	Calcop2	305	369	82.66	0.001390	-0.003068633	1.1992992e-007	1.0001623	1.0003073		
GP499	1-49	1537	P135	Calcop1	430	549	78.32	0.001436	0.003561386	-2.6771197e-007	0.9999669	0.9999738		
GP599	1-36	1537	P135	Calcop3	330	390	84.62	0.001580	0.001005201	-1.7860936e-007	1.0000516	1.0001378		
GP799	1-38	1537	P135	Calcop1	335	410	81.71	0.001278	0.002128502	-3.7248645e-007	1.0000966	1.0001150		
GP899	1-51	1180	P134	Calcos0	490	584	83.90	0.002210	-0.016829929		1.0004461	1.0004461		
GP999	1-30	1537	P136	Calcop0	300	351	85.47	0.002366	0.004221180	-8.4050609e-007	1.0000982	1.0000982		
GP100	1-37	1537	P136	Calcop3	238	272	87.50	0.001127	0.002796845	-1.5340907e-007	0.9999914	1.0001391		
GP200	1-50	1537	P136	Calcop1	399	565	70.62	0.001343	-0.000313624	9.1652413e-008	0.9999819	1.0000325		
GP300	1-52	1537	P136	Calcop4	502	600	83.67	0.001465	0.001940049	-2.7787074e-007	0.9999421	1.0000580		
GP400	1-50	1537	P136	Calcos2	395	521	75.82	0.001569	-0.001417831		1.0000798	1.0001711		
GP500	7-42	1537	P136	Calcop1	334	402	83.08	0.001246	0.000073378	-4.1260679e-007	1.0000684	1.0000788		
GP600	1-48	1537	P136	Calcos0	375	528	71.02	0.002432	-0.001821845		1.0001078	1.0001078		
GP700	1-48	1180	P136	Calcop0	322	393	81.93	0.001516	0.011184738	7.2296087e-007	1.0004229	1.0004229		
GP800	1-50	1537	P136	Calcos2	456	552	82.61	0.003373	-0.000890204		1.0000930	1.0001995		

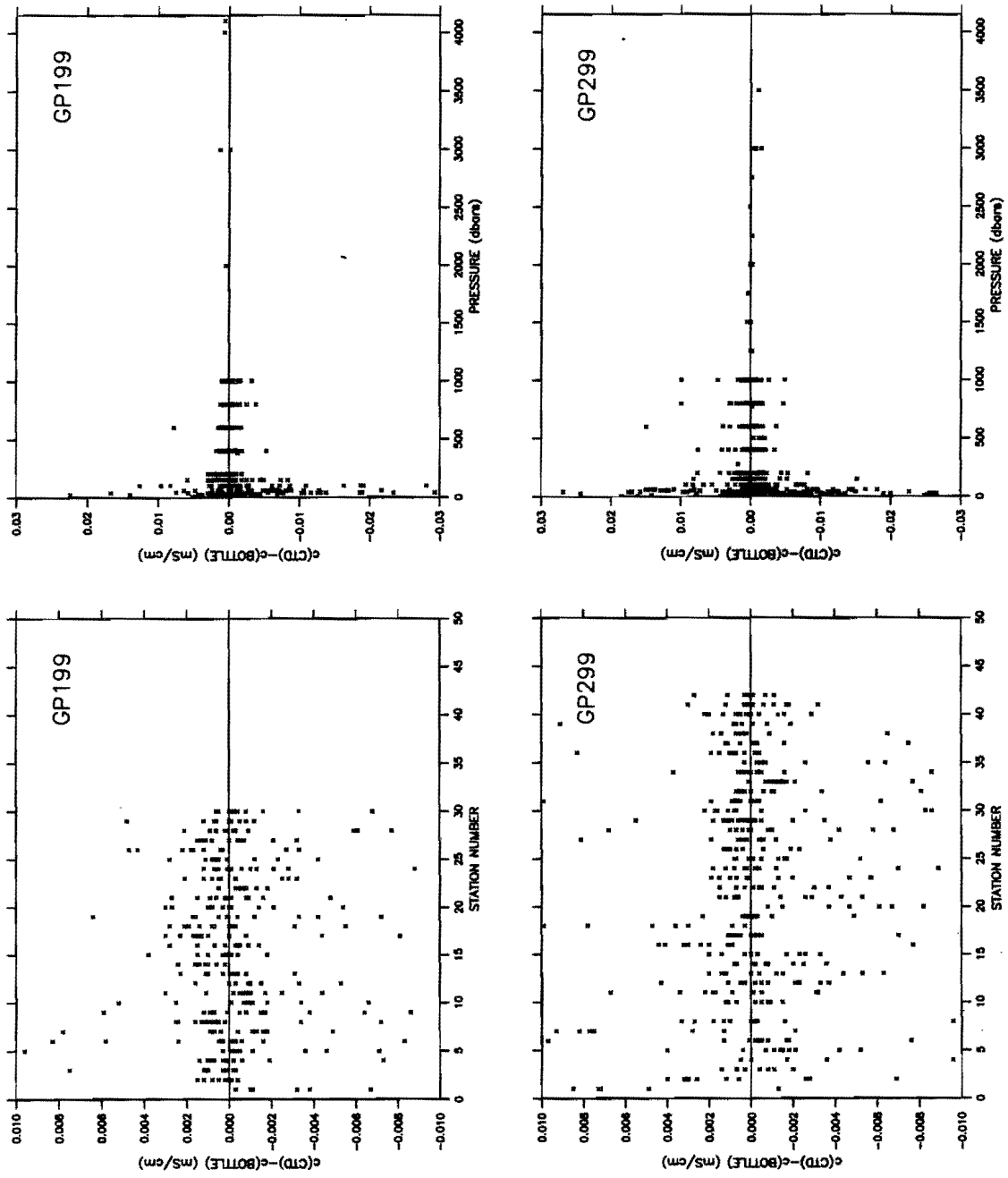


Figure 2a: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP199 (upper panels) and GP299 (lower panels).

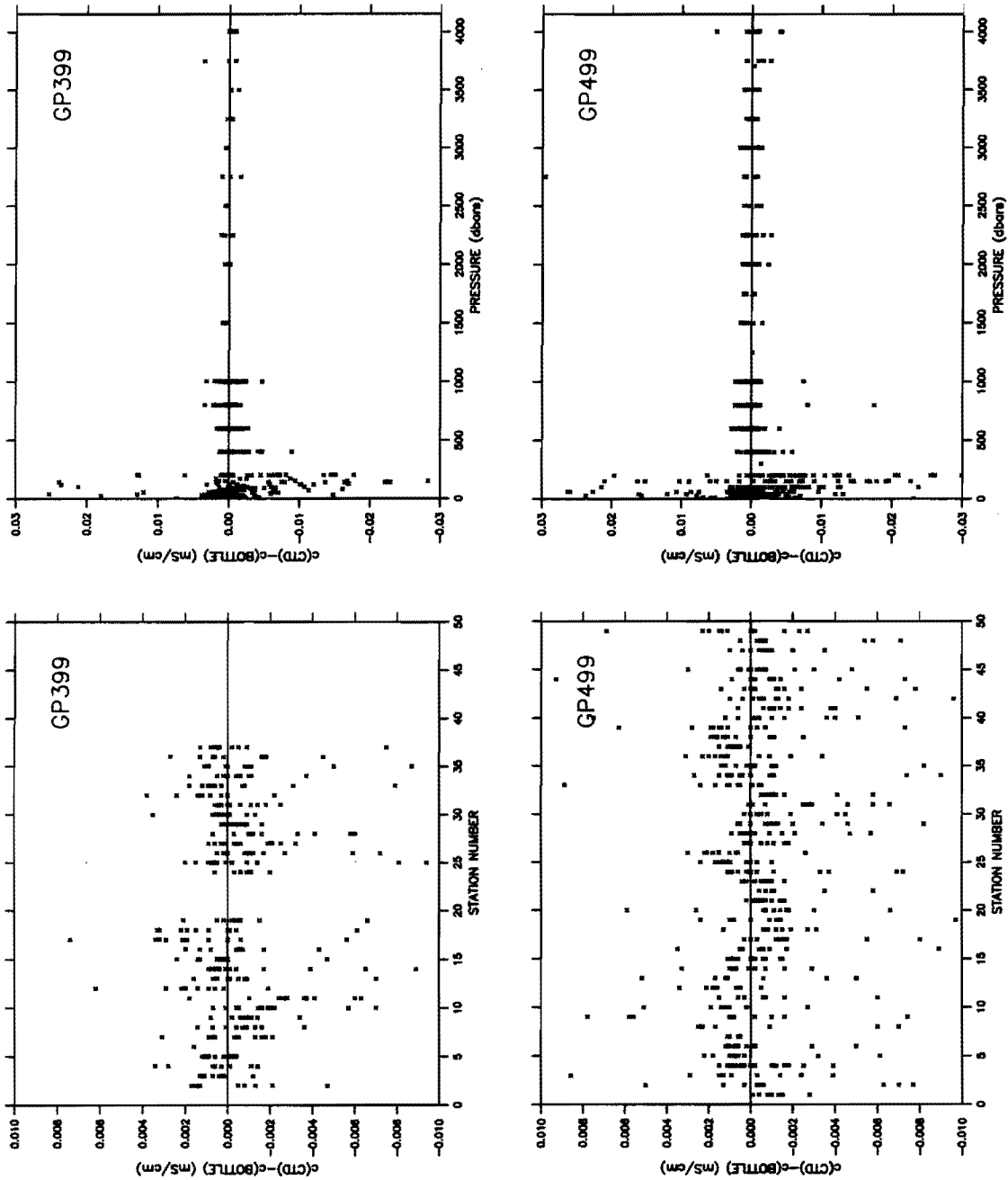


Figure 2b: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP399 (upper panels) and GP499 (lower panels).

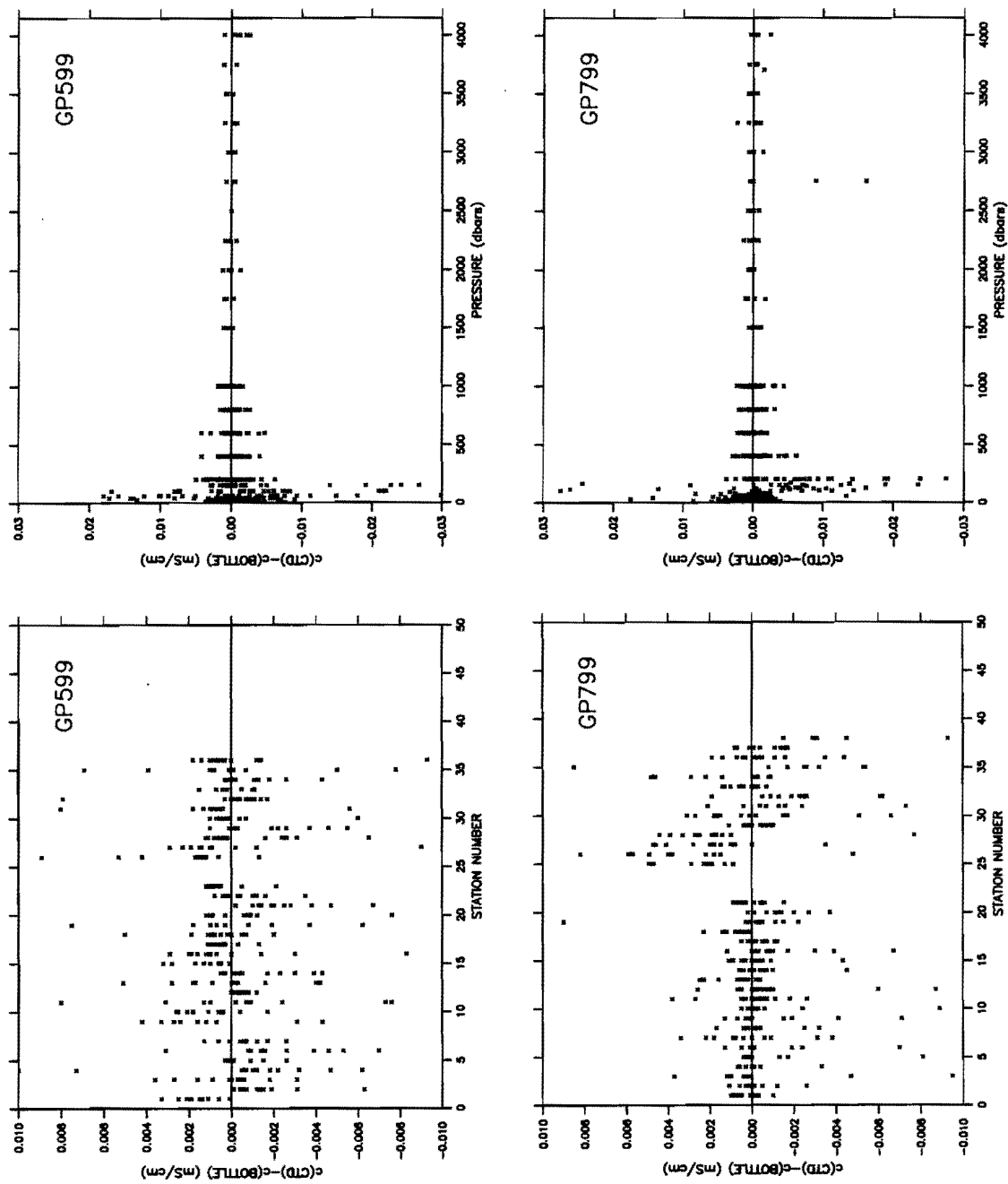


Figure 2c: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP599 (upper panels) and GP799 (lower panels).

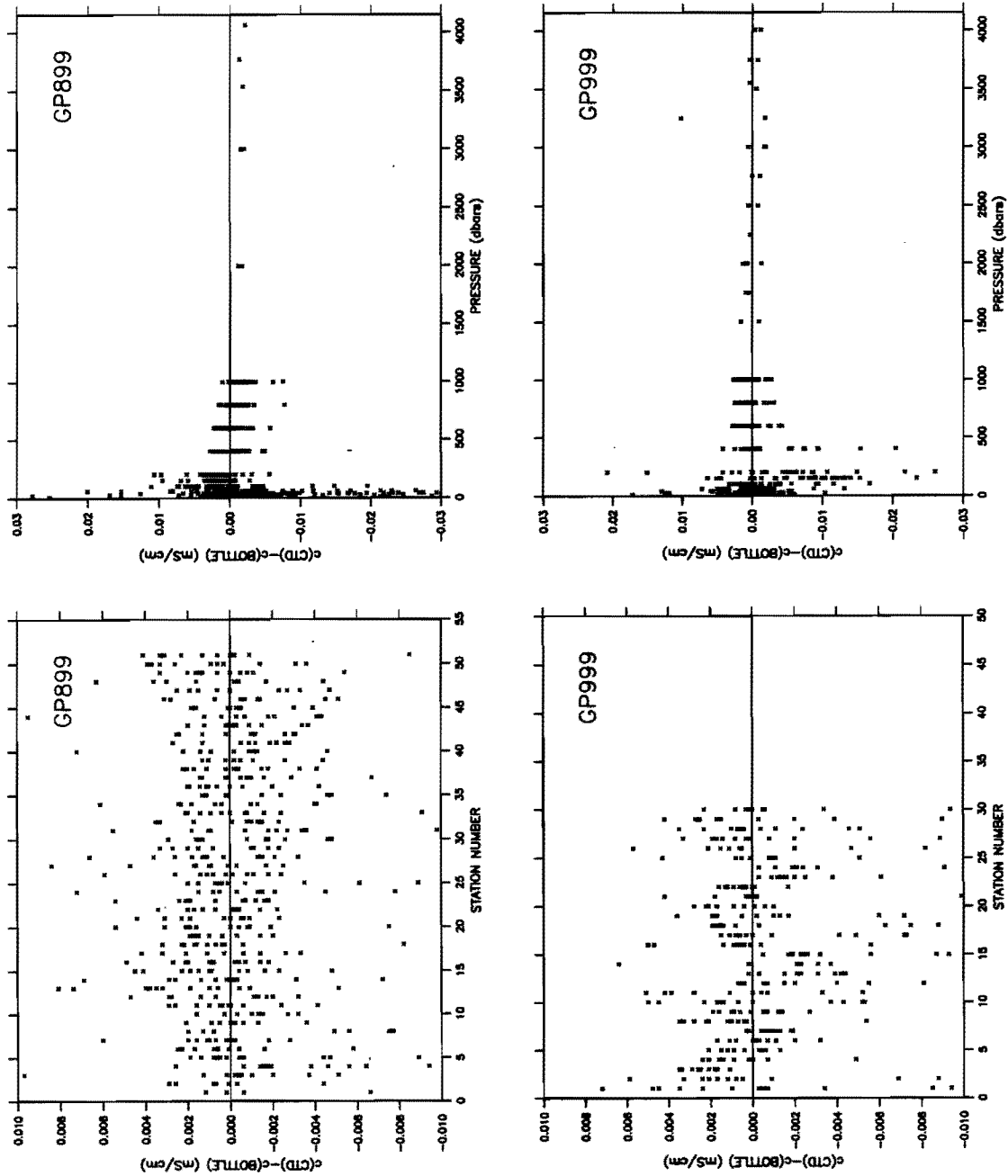


Figure 2d: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP899 (upper panels) and GP999 (lower panels).

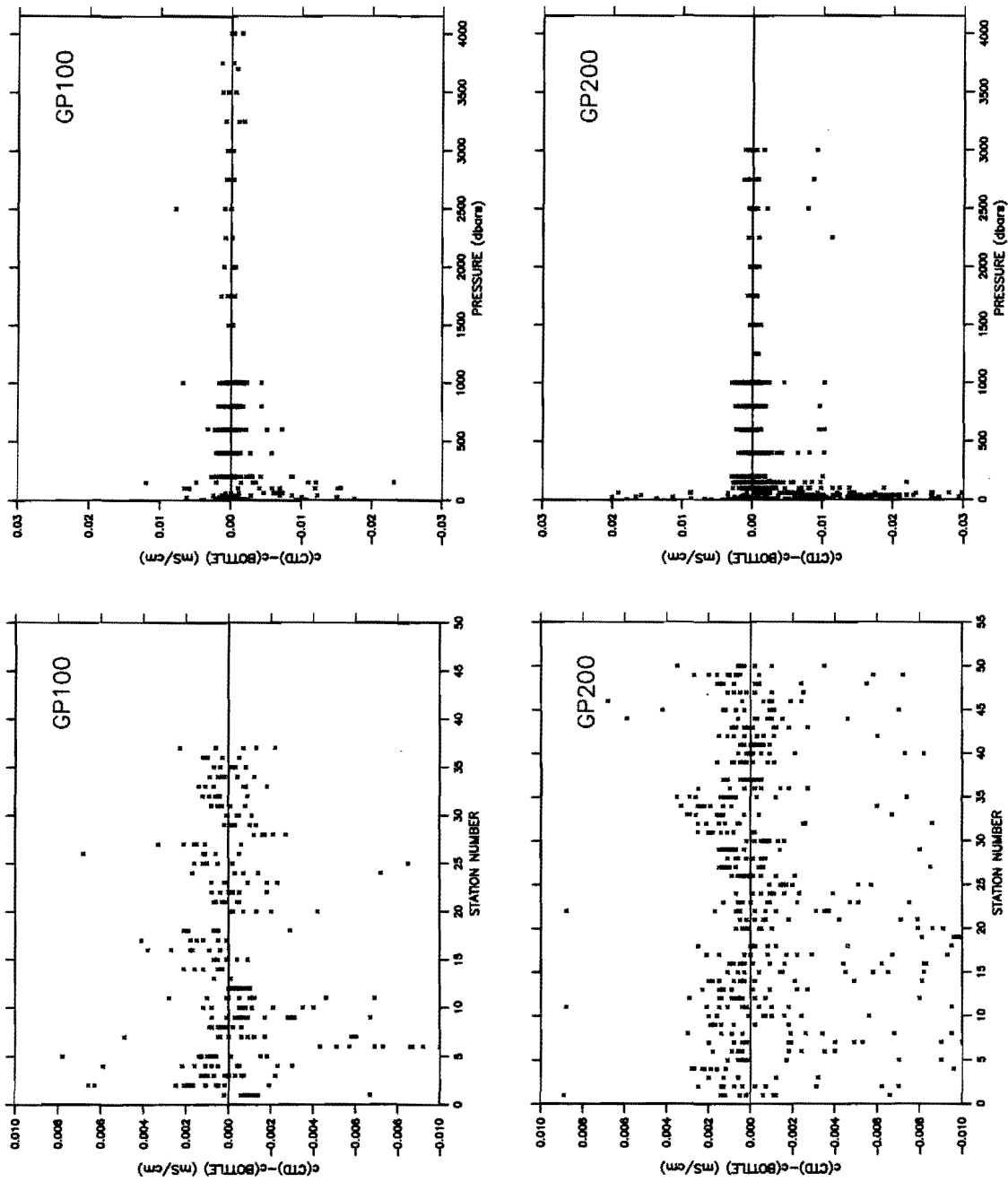


Figure 2e: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP100 (upper panels) and GP200 (lower panels).

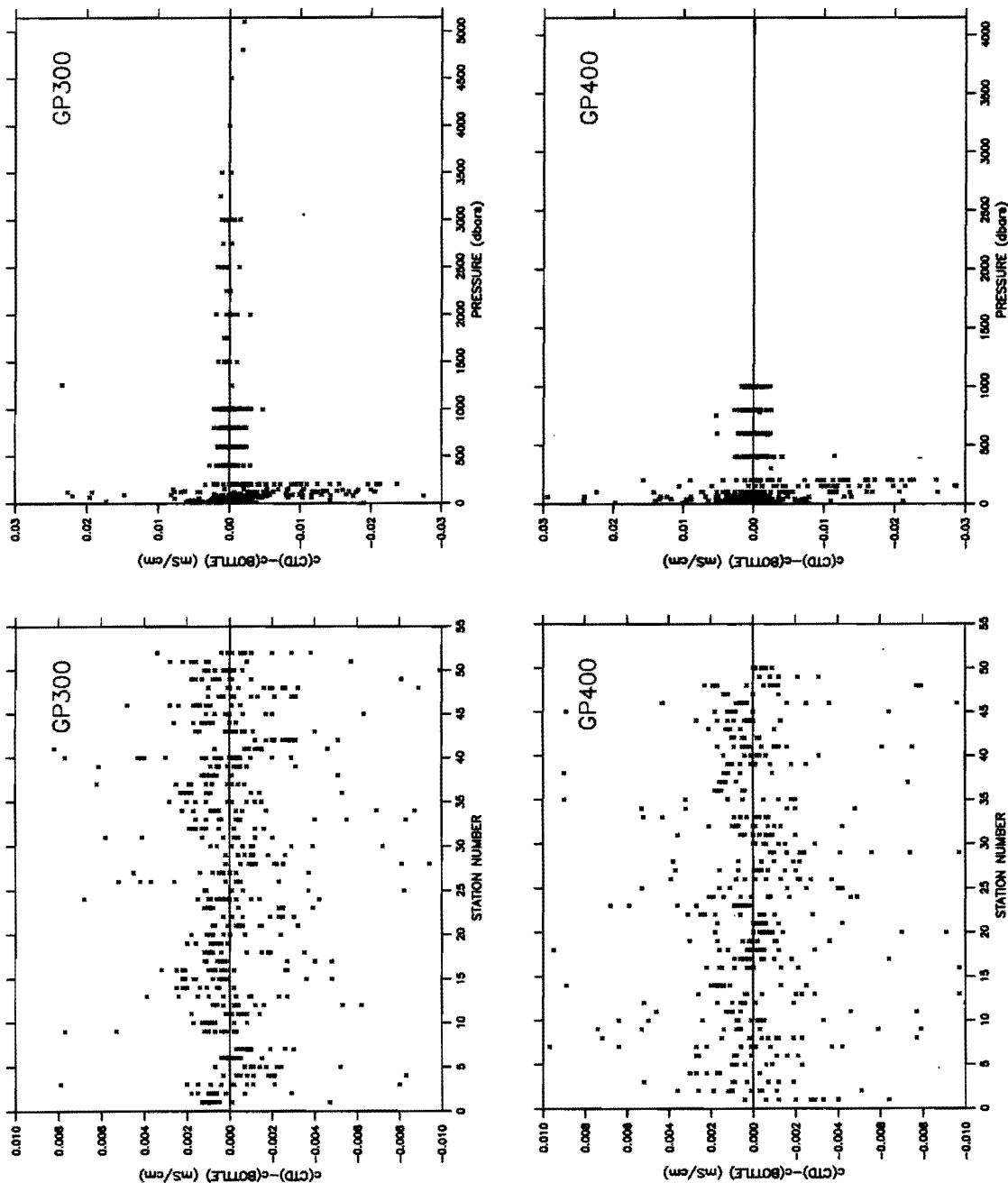


Figure 2f: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP300 (upper panels) and GP400 (lower panels).

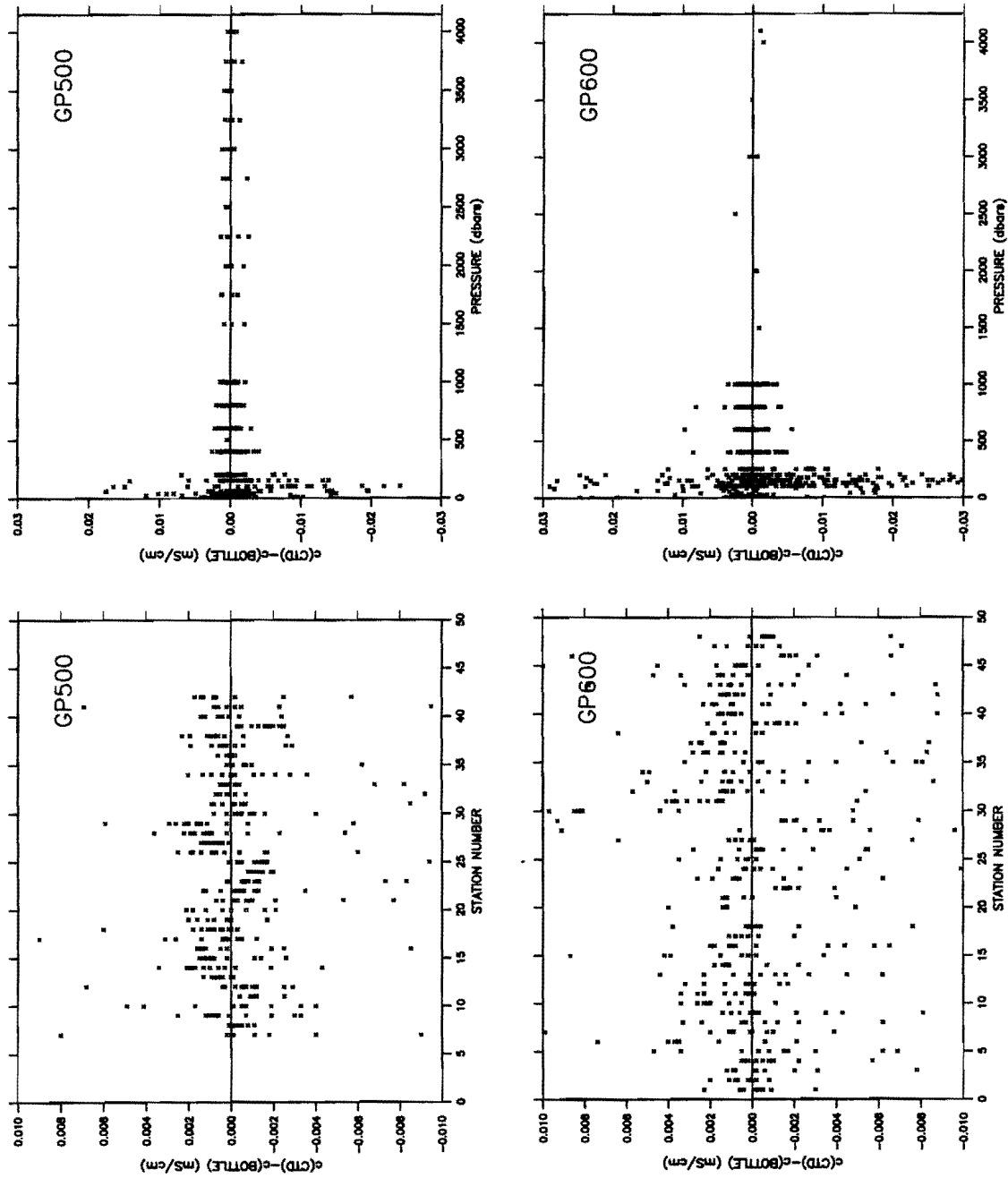


Figure 2g: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP500 (upper panels) and GP600 (lower panels).

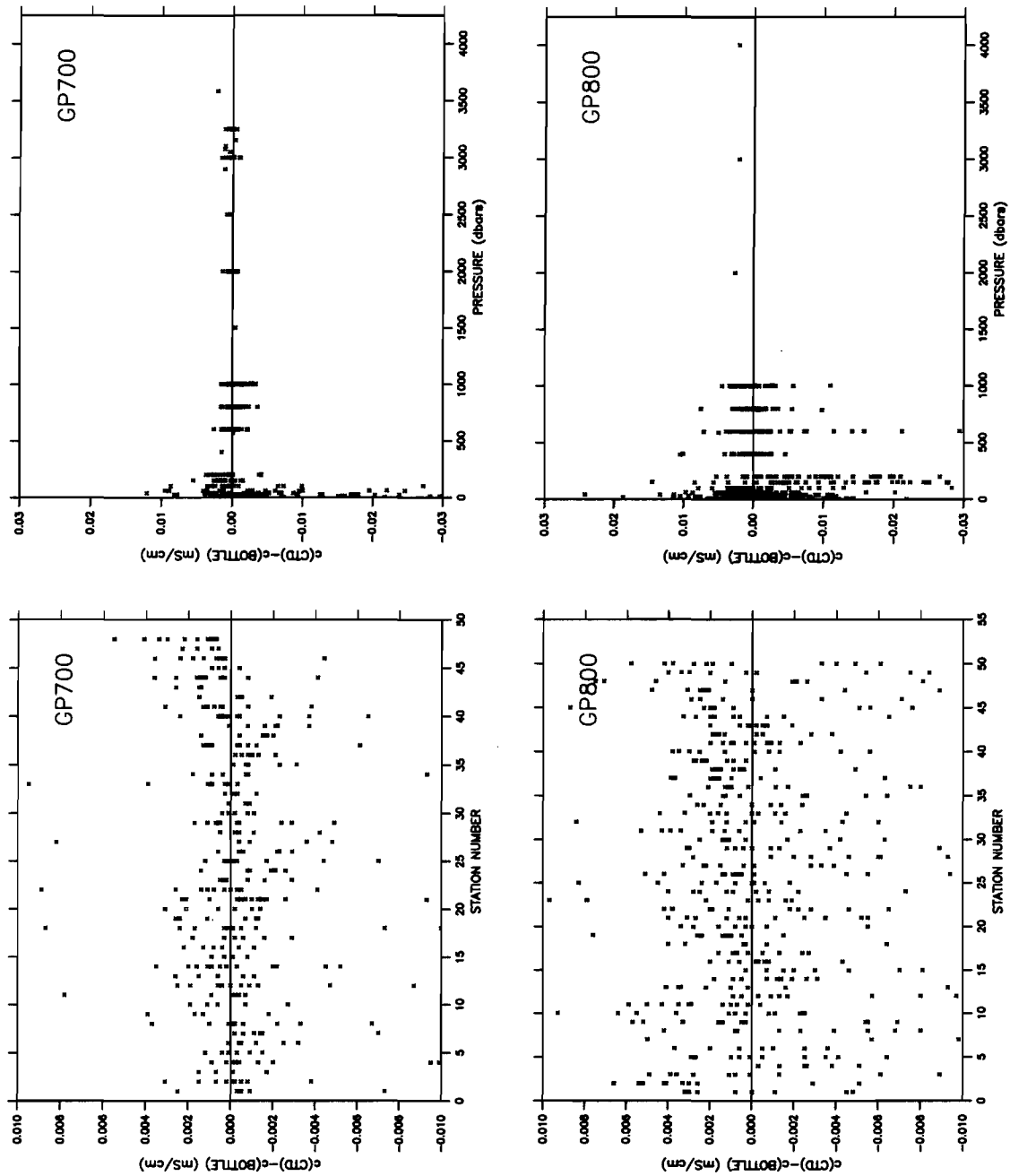


Figure 2h: Calibrated CTD-bottle conductivity differences plotted against station number and pressure for cruises GP700 (upper panels) and GP800 (lower panels).

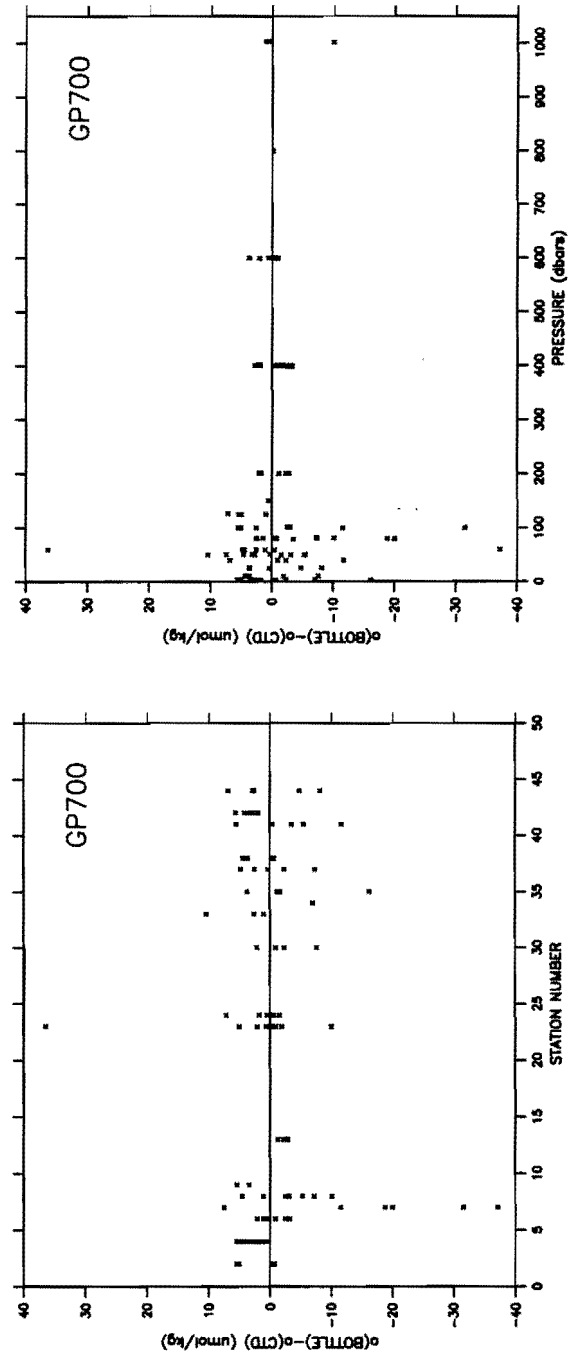


Figure 3: Calibrated CTD-bottle oxygen differences plotted against station number and pressure for cruise GP700.

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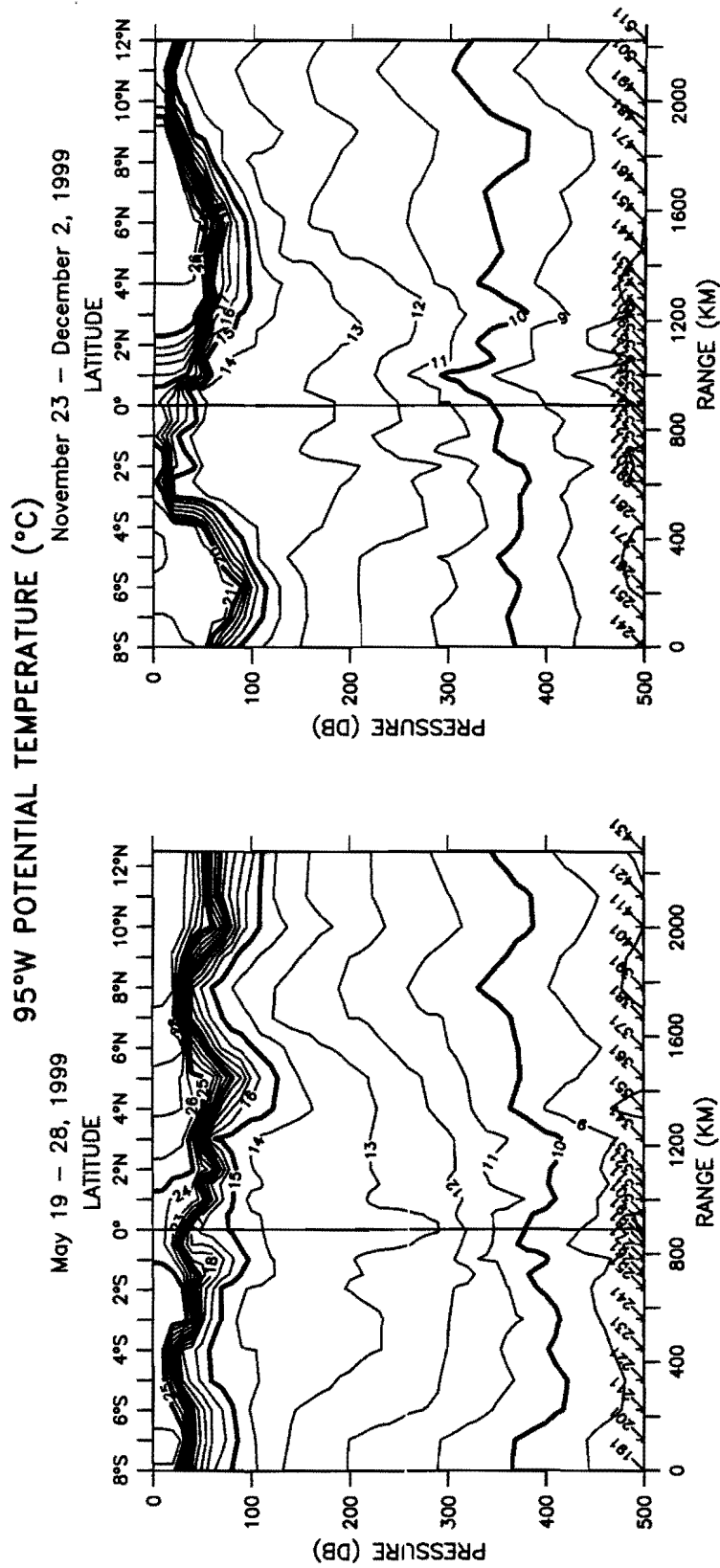


Figure 4: GP2-99-KA spring and GP8-99-RB fall potential temperature (°C) sections along 95°W. Contour intervals are 1°C.

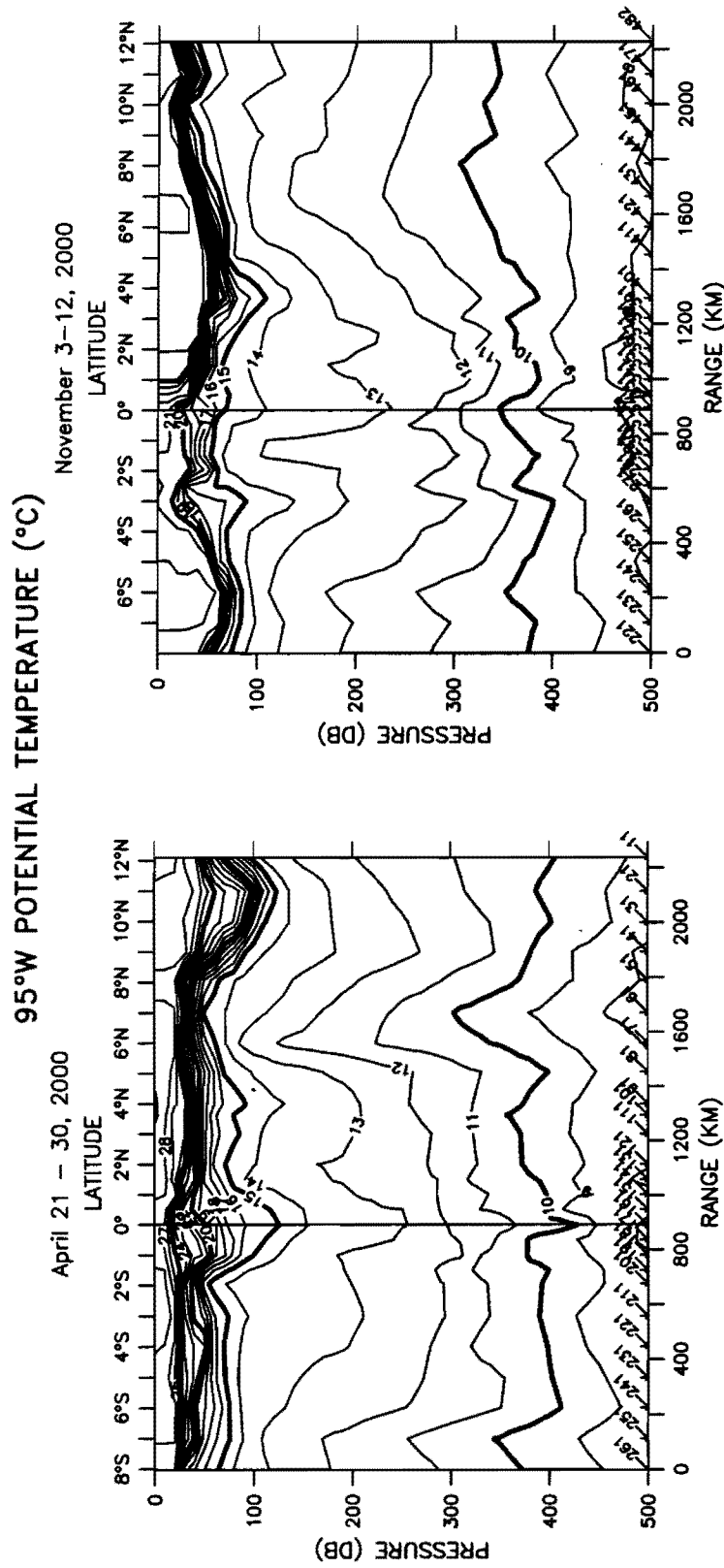


Figure 5: GP2-00-KA spring and GP7-00-RB fall potential temperature (°C) sections along 95°W. Contour intervals are 1°C.

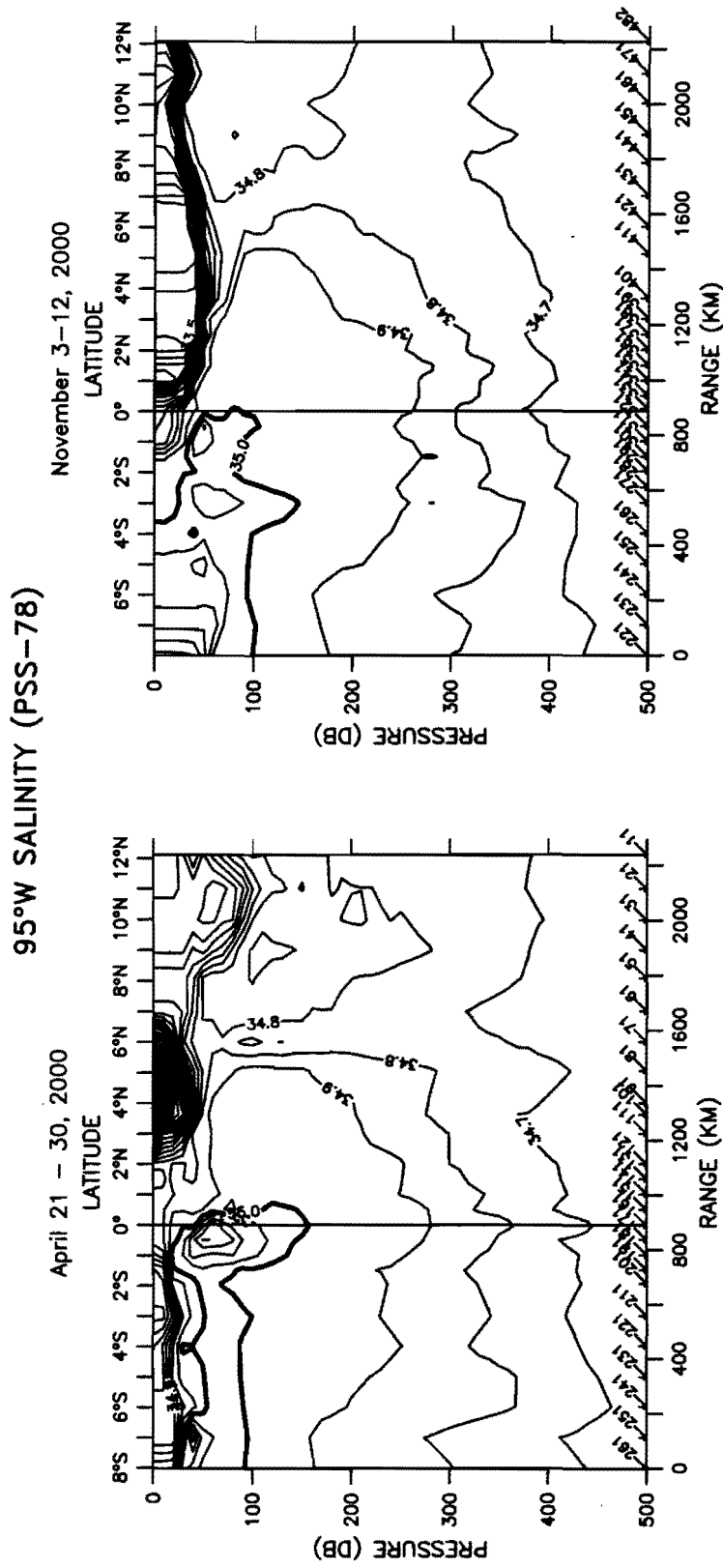


Figure 7: GP2-00-KA spring and GP7-00-RB fall salinity (PSS-78) sections along 95°W. Contour intervals are 0.1 PSS.

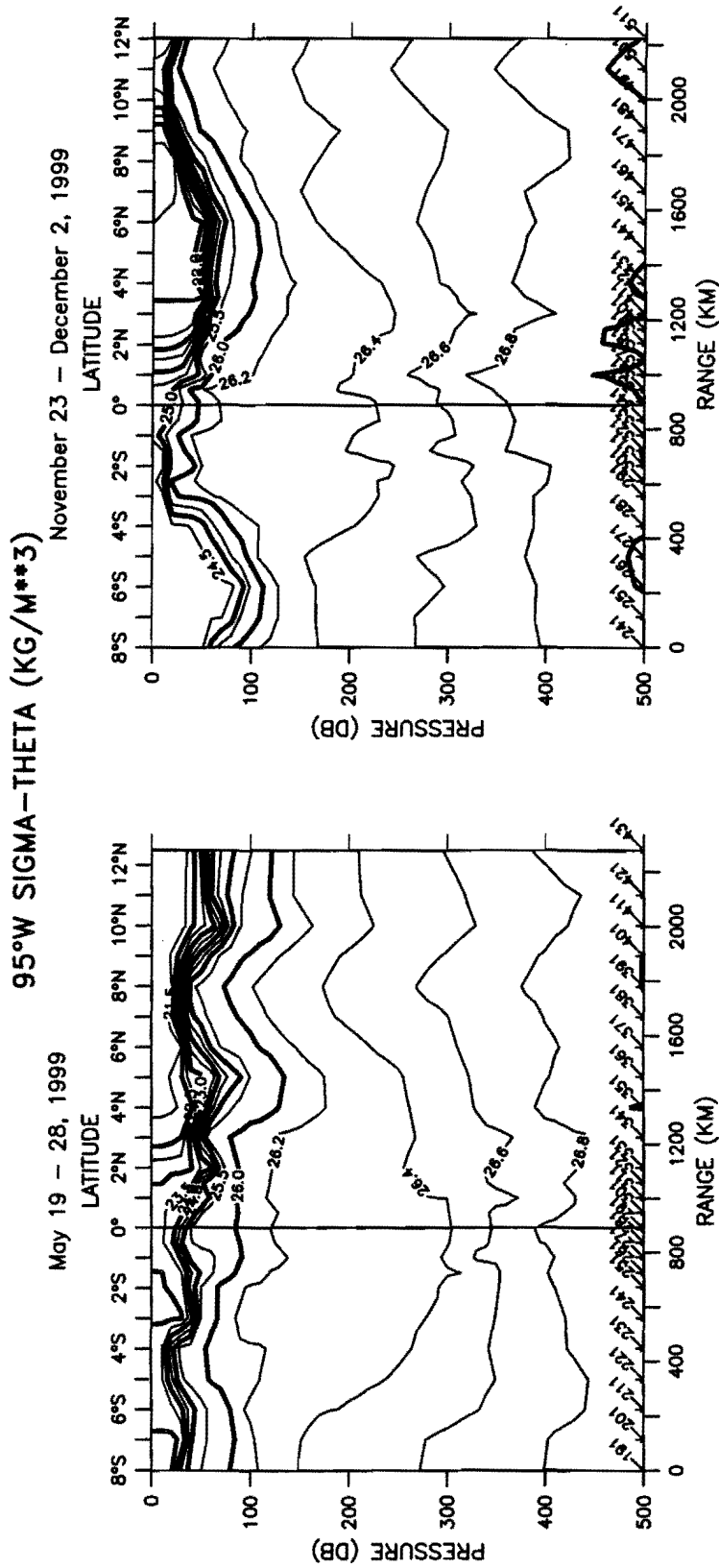


Figure 8: GP2-99-KA spring and GP8-99-RB fall potential density (kg/m^3) sections along 95°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

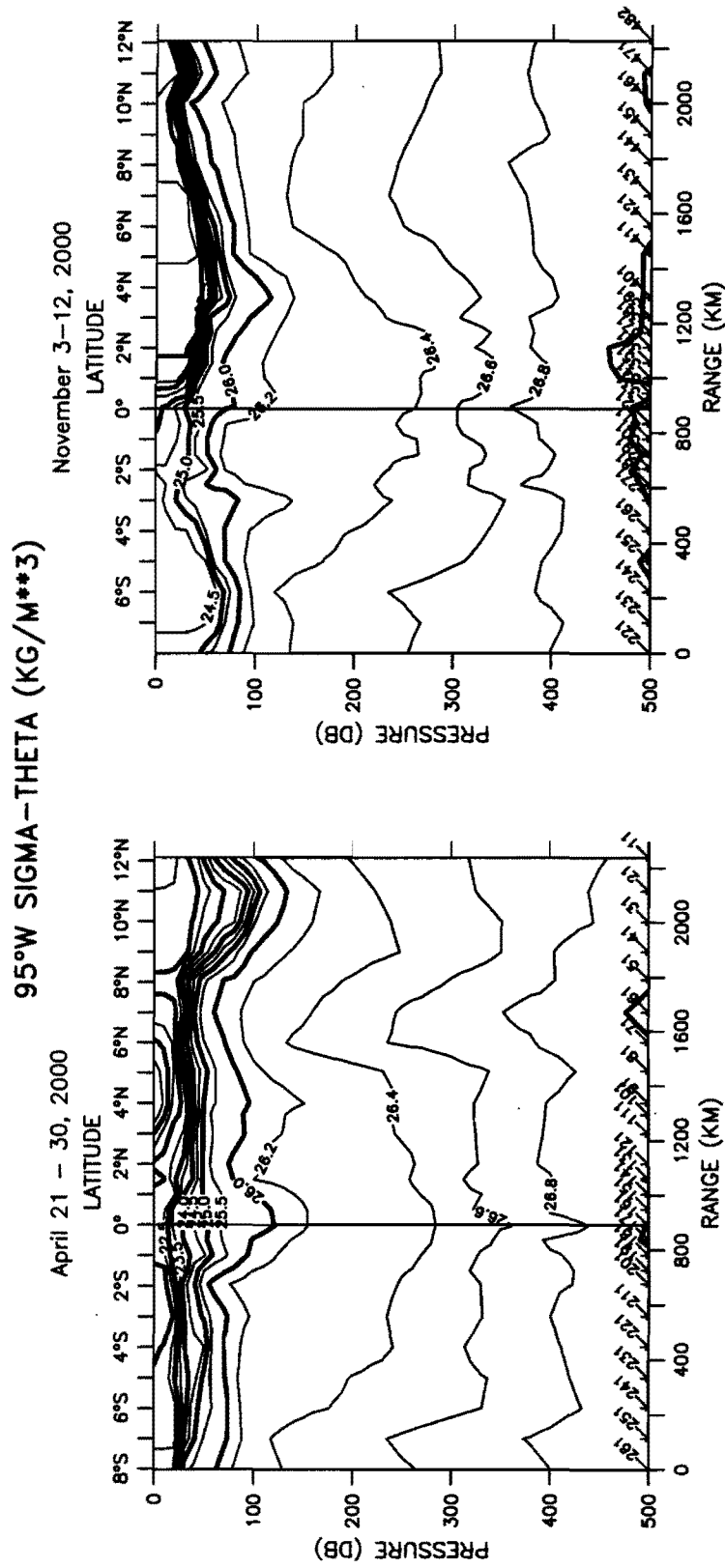


Figure 9: GP2-00-KA spring and GP7-00-RB fall potential density (kg/m^3) sections along 95°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

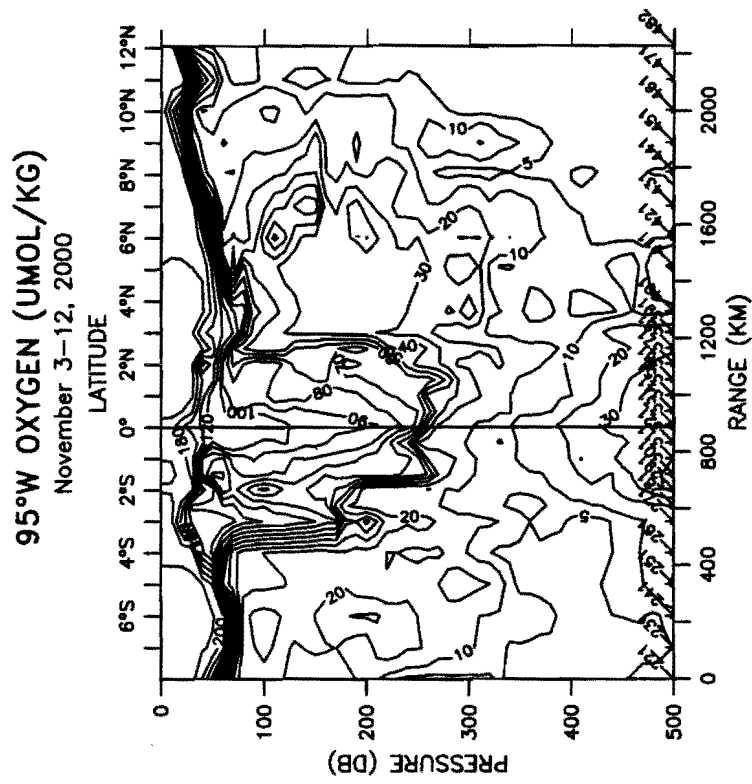


Figure 10: GP7-00-RB fall CTD oxygen ($\mu\text{mol}/\text{kg}$) section along 95°W . Contour intervals are 5 from 0–10 $\mu\text{mol}/\text{kg}$, 10 from 10–100 $\mu\text{mol}/\text{kg}$, and 20 from 100–300 $\mu\text{mol}/\text{kg}$.

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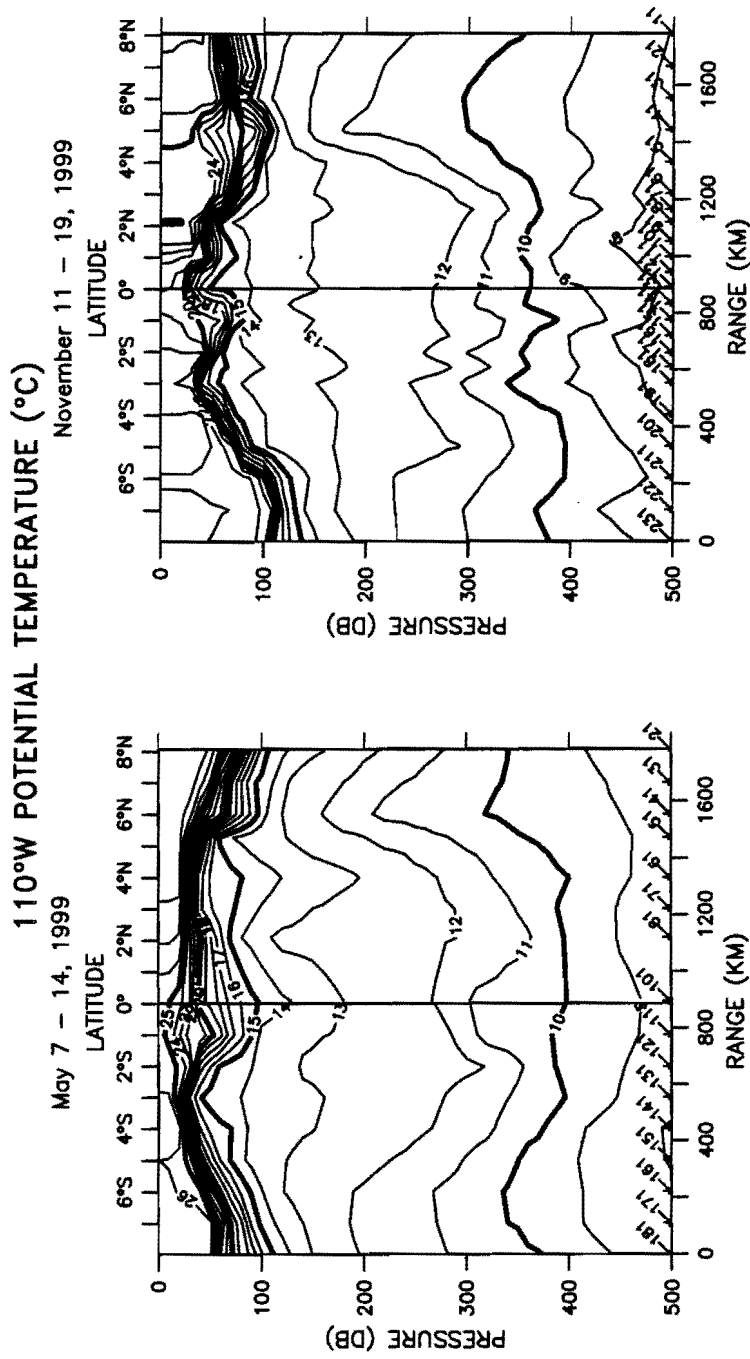


Figure 11: GP2-99-KA spring and GP8-99-RB fall potential temperature (°C) sections along 110°W. Contour intervals are 1°C.

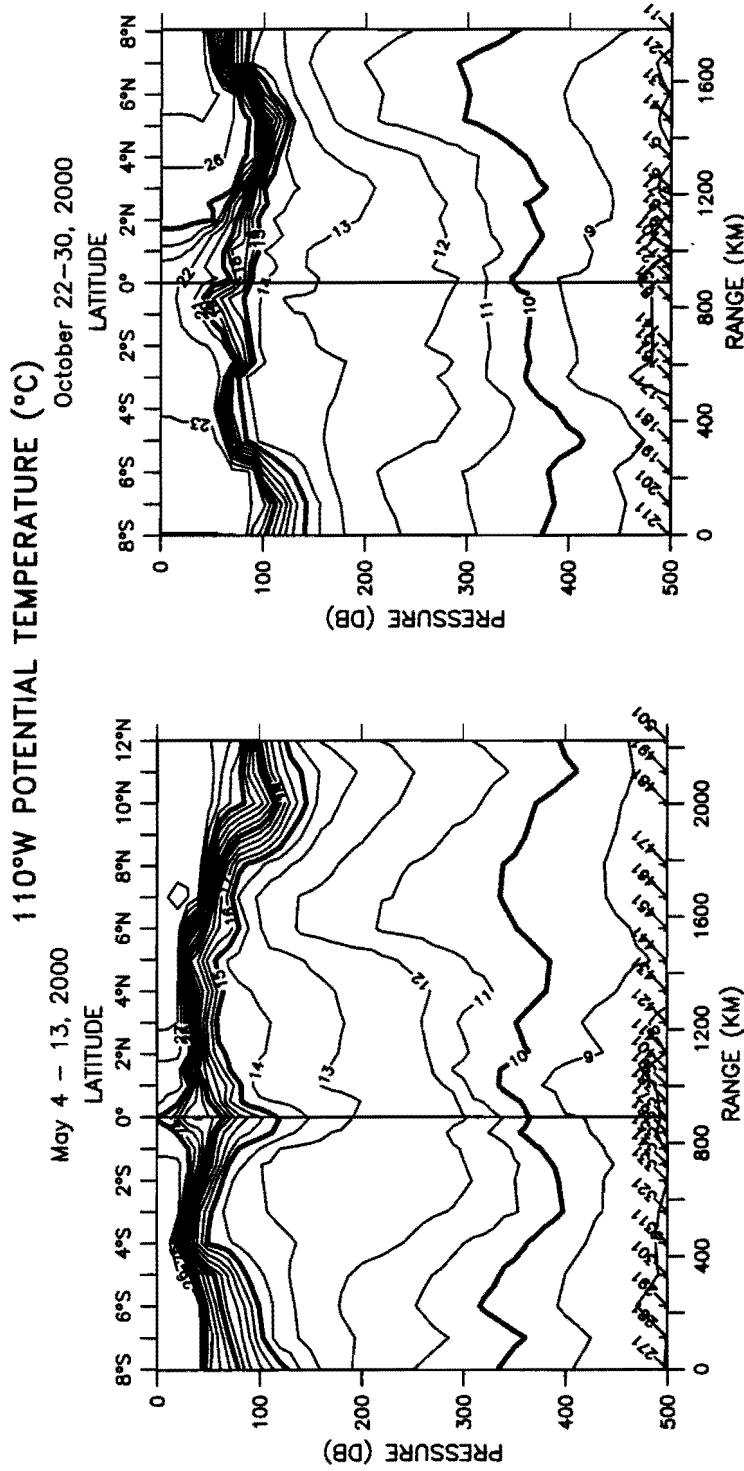


Figure 12: GP2-00-KA spring and GP7-00-RB fall potential temperature (°C) sections along 110°W. Contour intervals are 1°C.

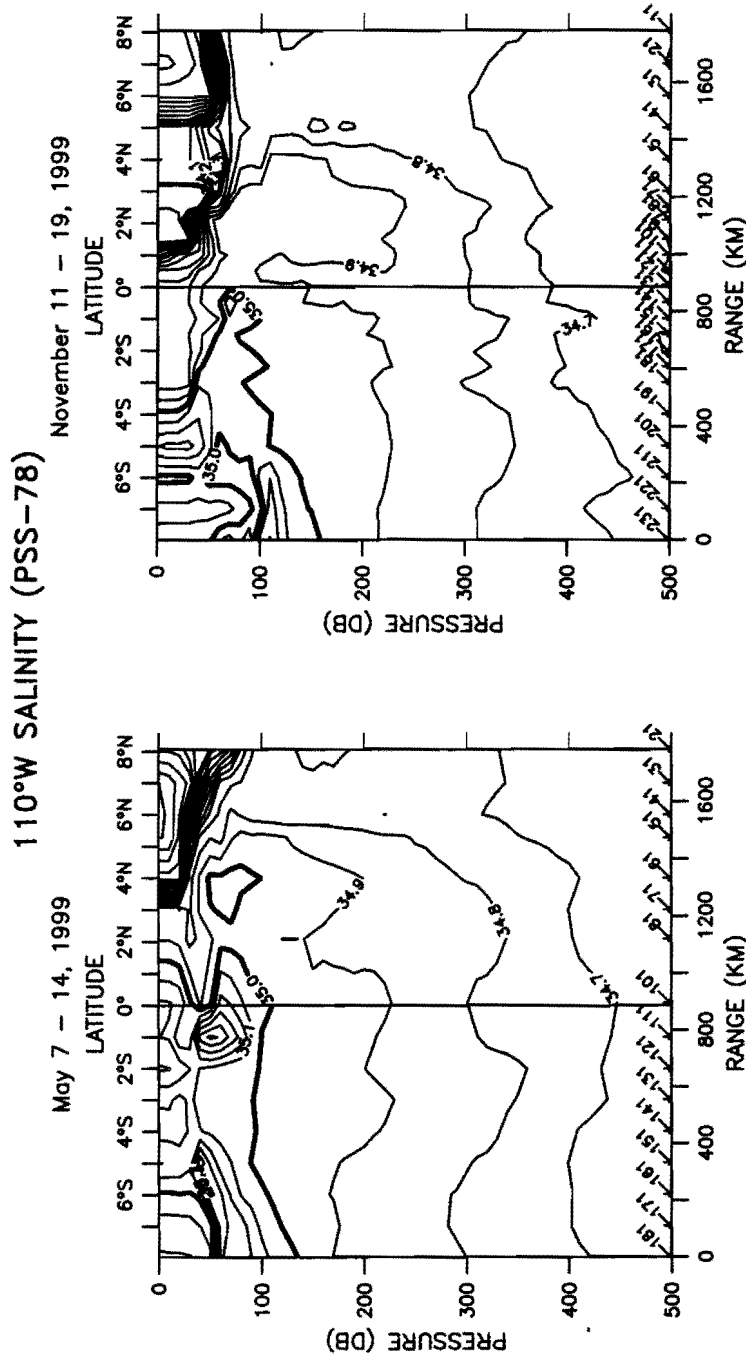
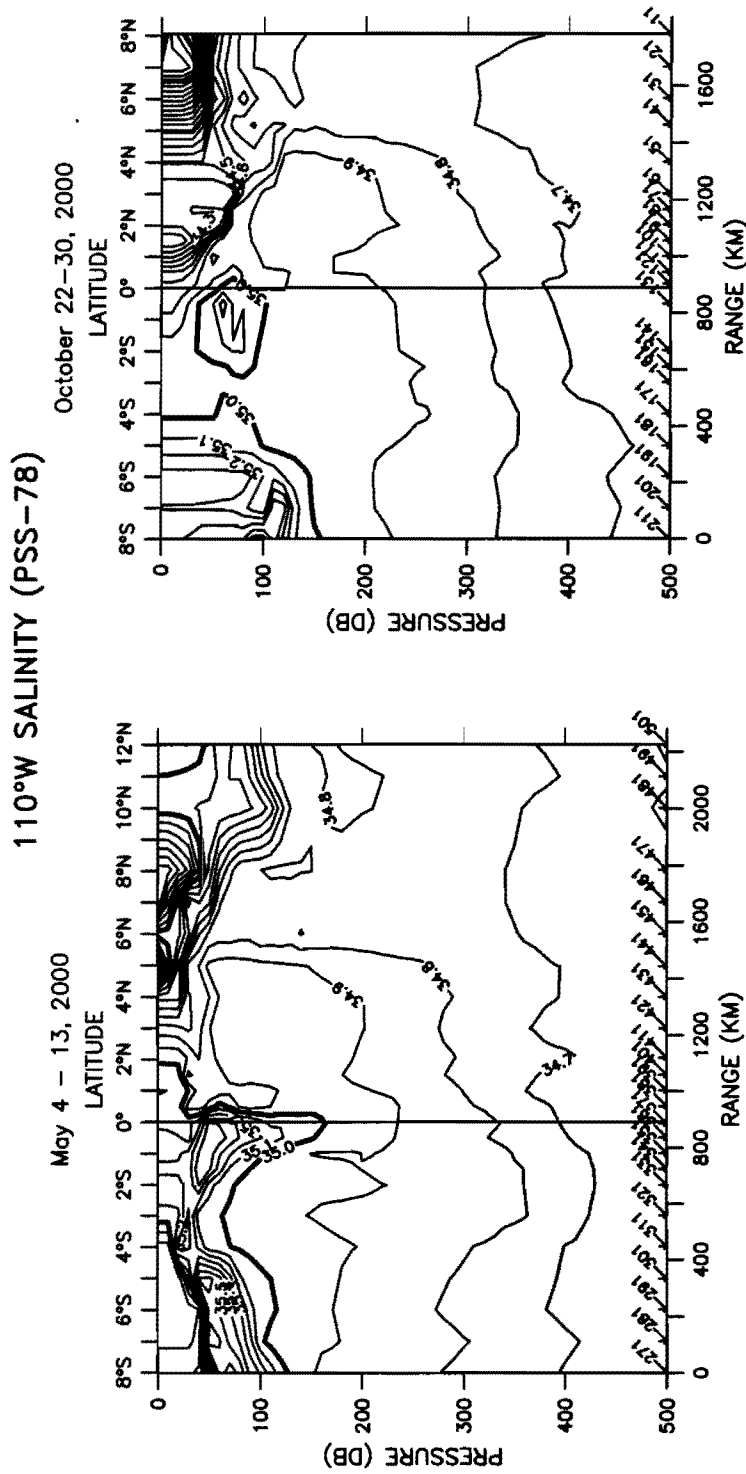


Figure 13: GP2-99-KA spring and GP8-99-RB fall salinity (PSS-78) sections along 110°W. Contour intervals are 0.1 PSS.



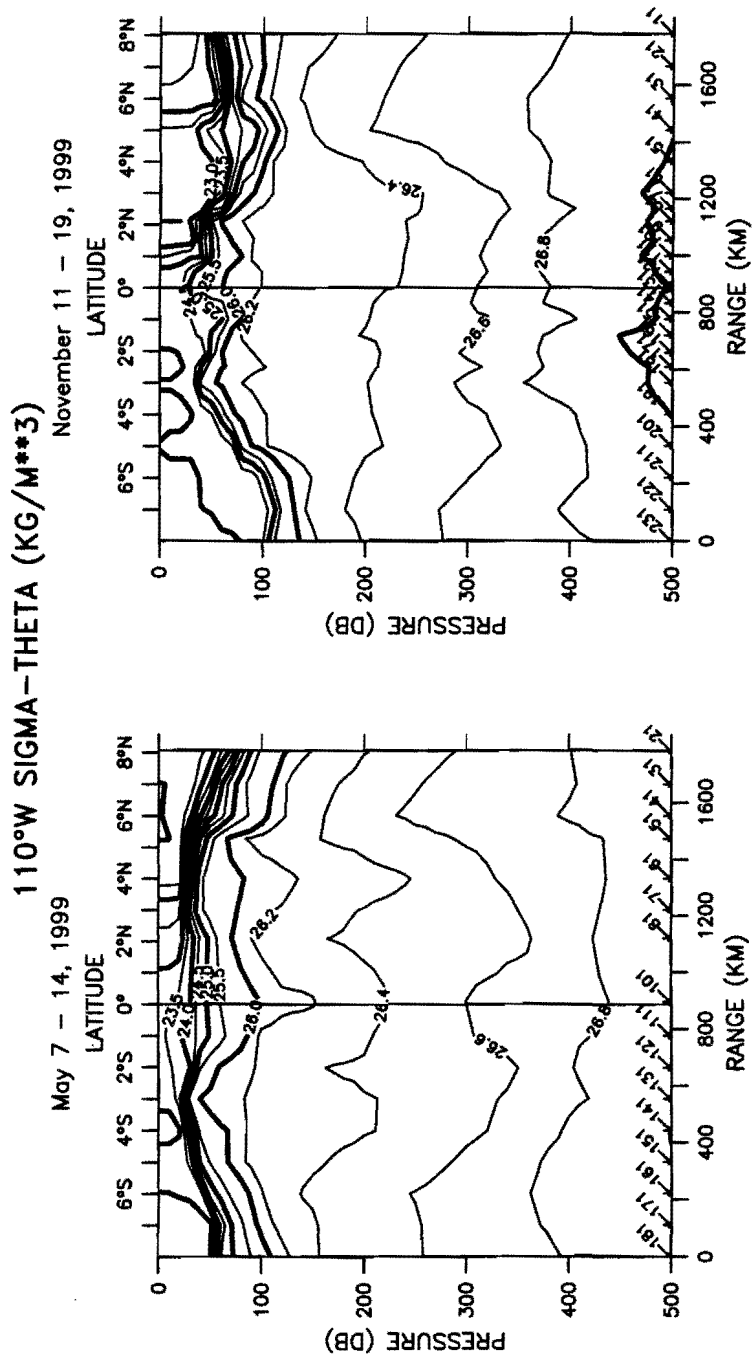


Figure 15: GP2-99-KA spring and GP8-99-RB fall potential density (kg/m^3) sections along 110°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

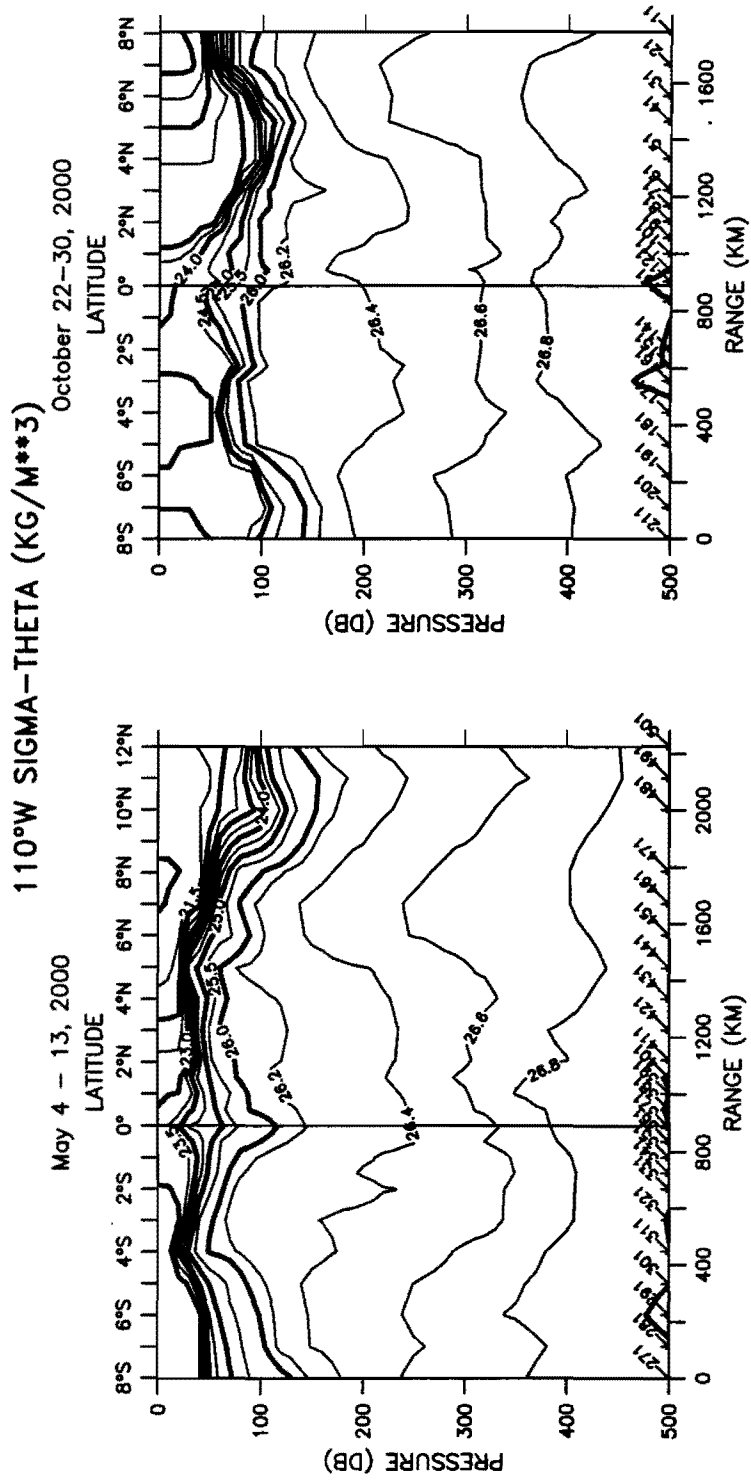


Figure 16: GP2-00-KA spring and GP7-00-RB fall potential density (kg/m³) sections along 110°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

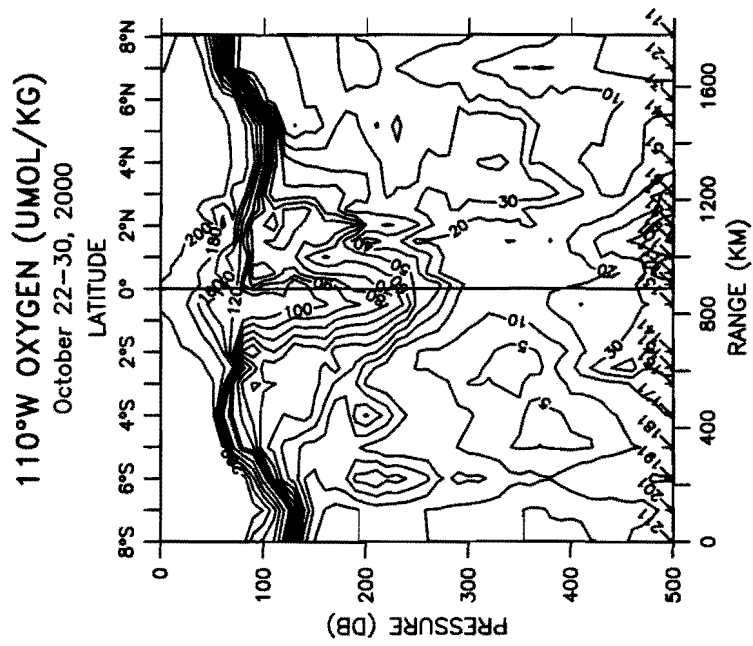


Figure 17: GP7-00-RB fall CTD oxygen ($\mu\text{mol/kg}$) section along 110°W. Contour intervals are 5 from 0–10 $\mu\text{mol/kg}$, 10 from 10–100 $\mu\text{mol/kg}$, and 20 from 100–300 $\mu\text{mol/kg}$.

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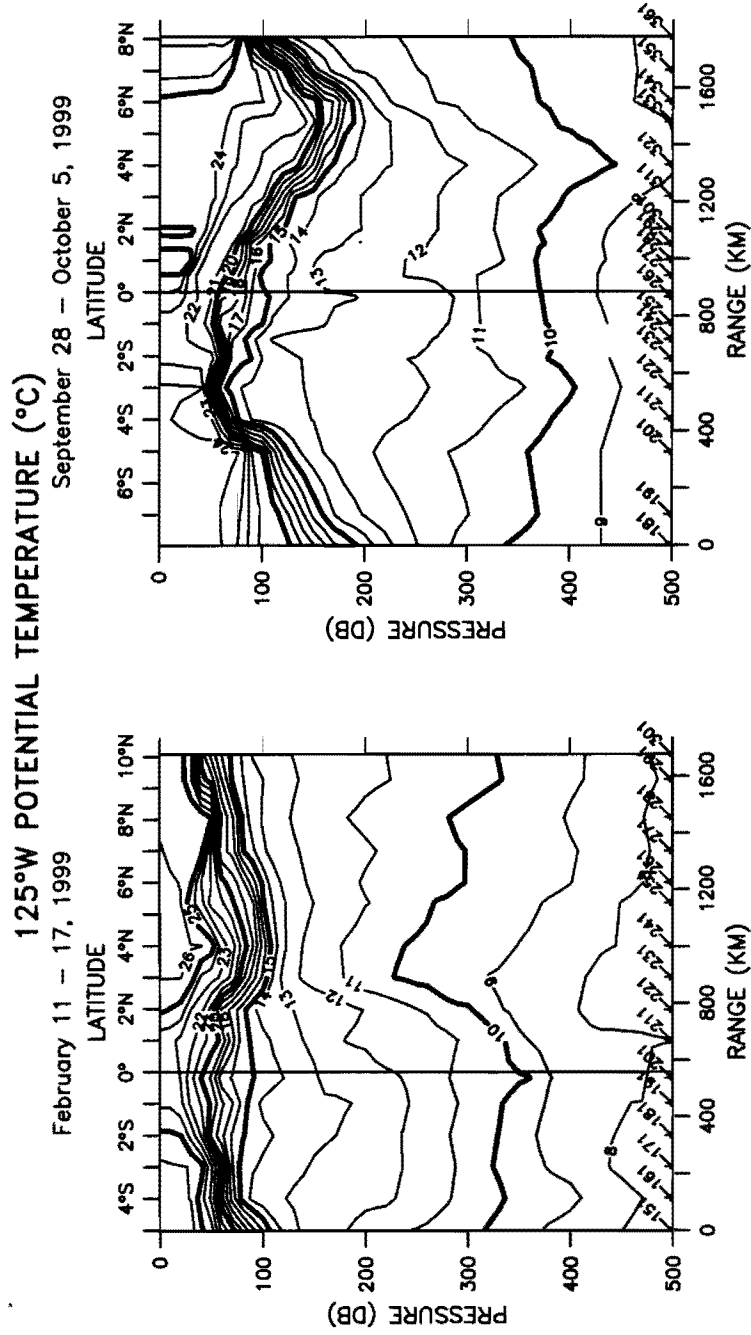


Figure 18: GP1-99-KA winter and GP5-99-KA fall potential temperature (°C) sections along 125°W. Contour intervals are 1°C.

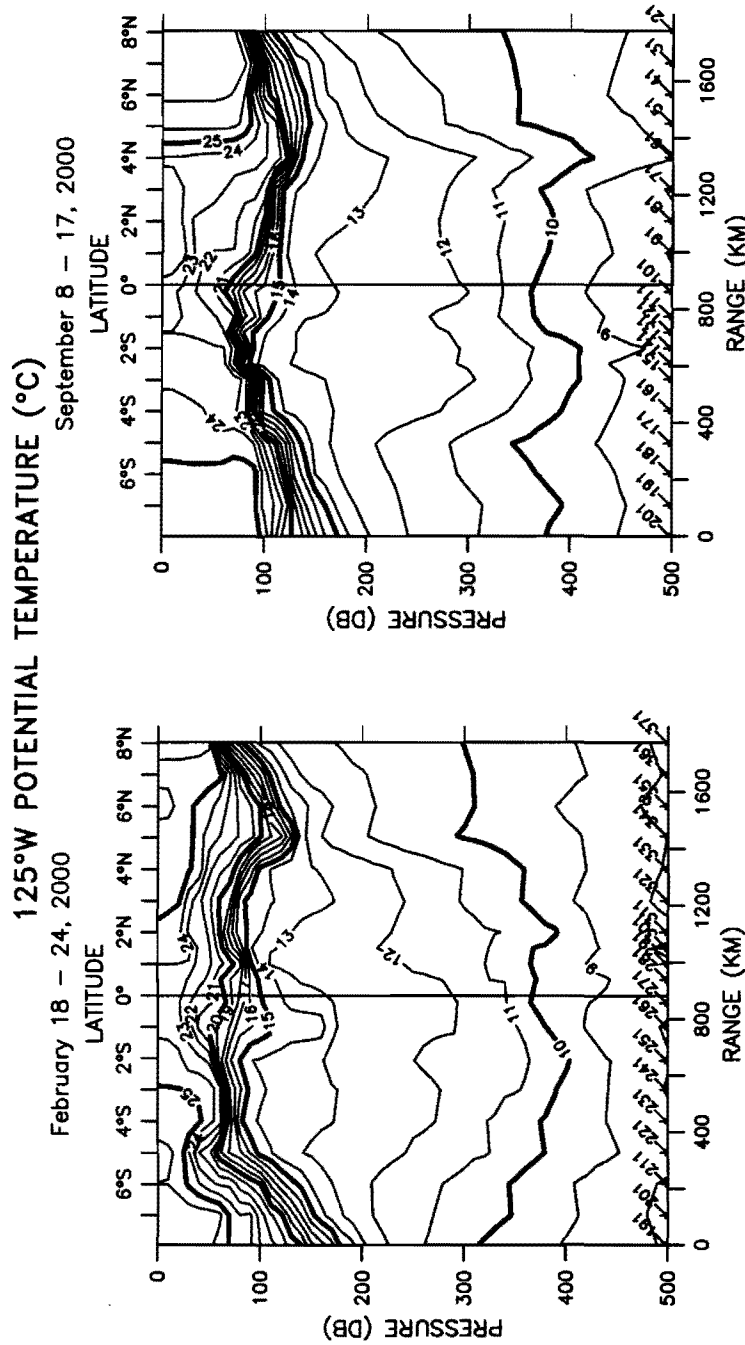


Figure 19: GP1-00-KA winter and GP5-00-KA fall potential temperature (°C) sections along 125°W. Contour intervals are 1°C.

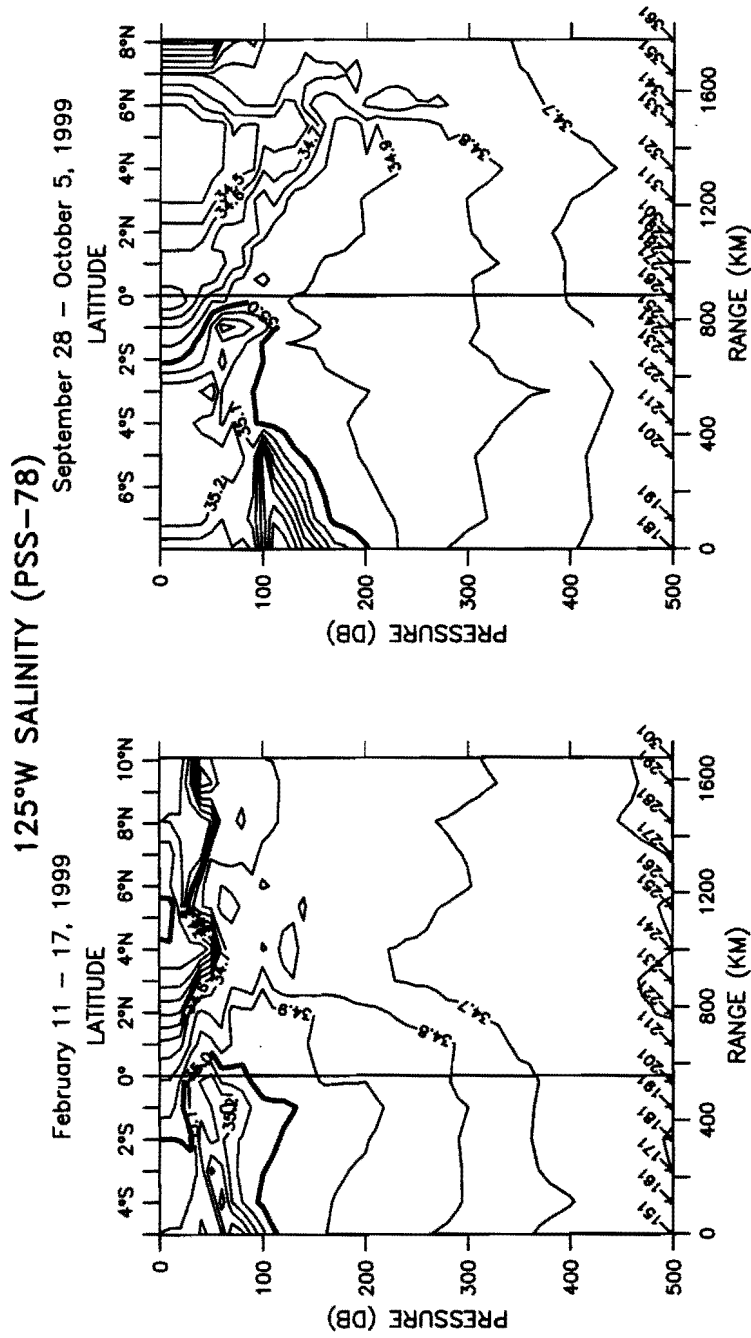


Figure 20: GP1-99-KA winter and GP5-99-KA fall salinity (PSS-78) sections along 125°W. Contour intervals are 0.1 PSS.

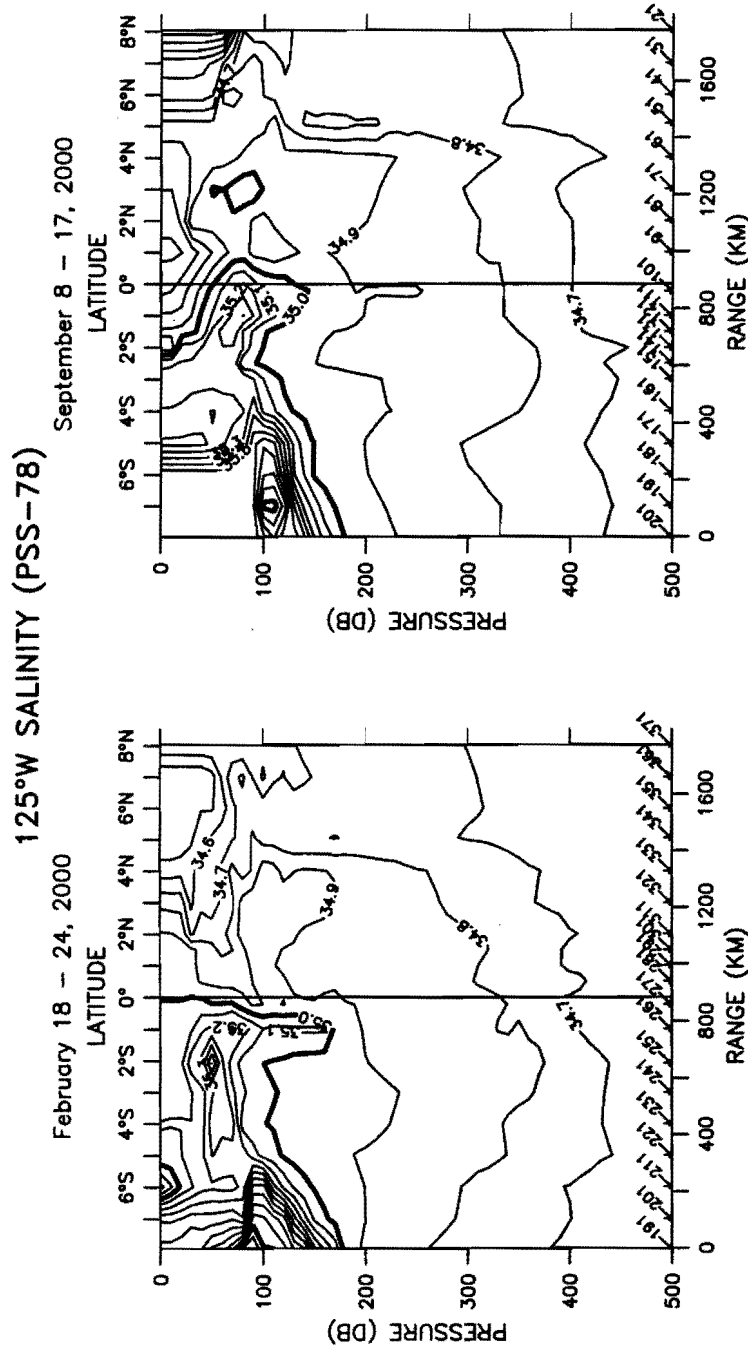


Figure 21: GP1-00-KA winter and GP5-00-KA fall salinity (PSS-78) sections along 125°W. Contour intervals are 0.1 PSS.

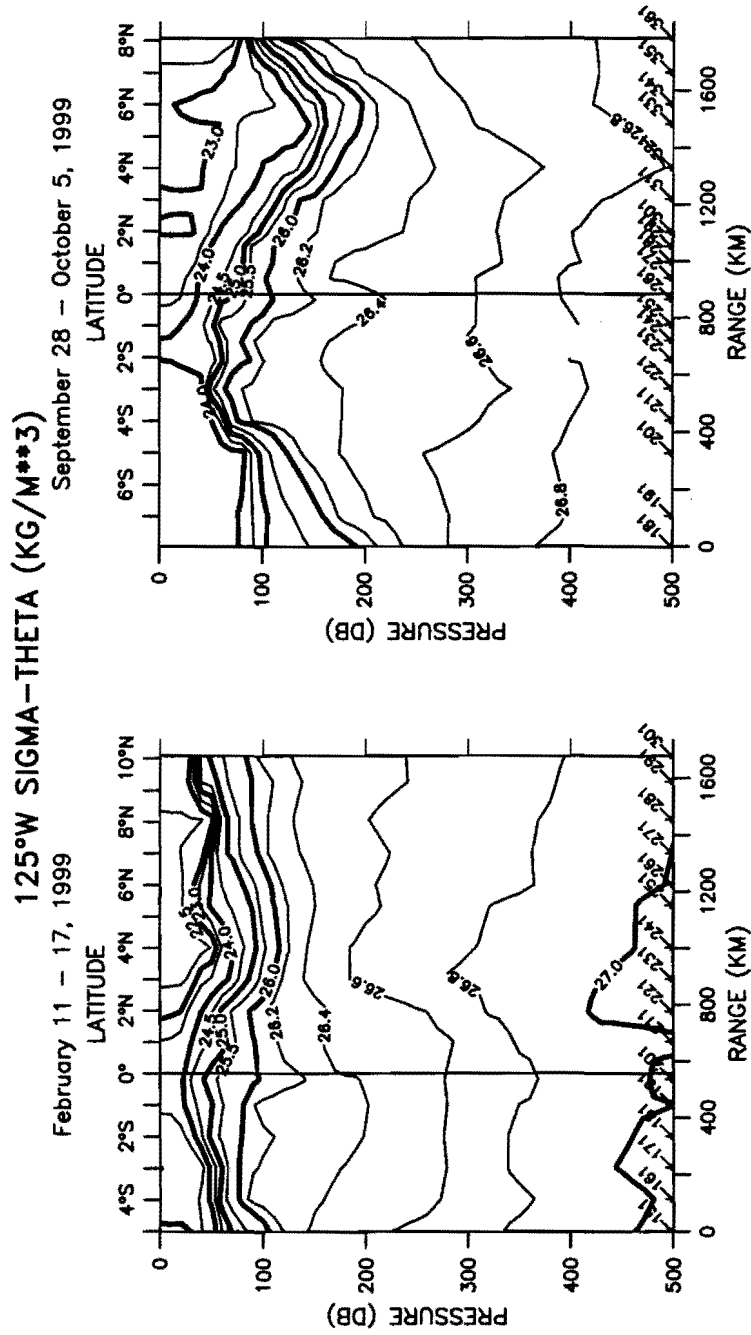


Figure 22: GP1-99-KA winter and GP5-99-KA fall potential density (kg/m³) sections along 125°W. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

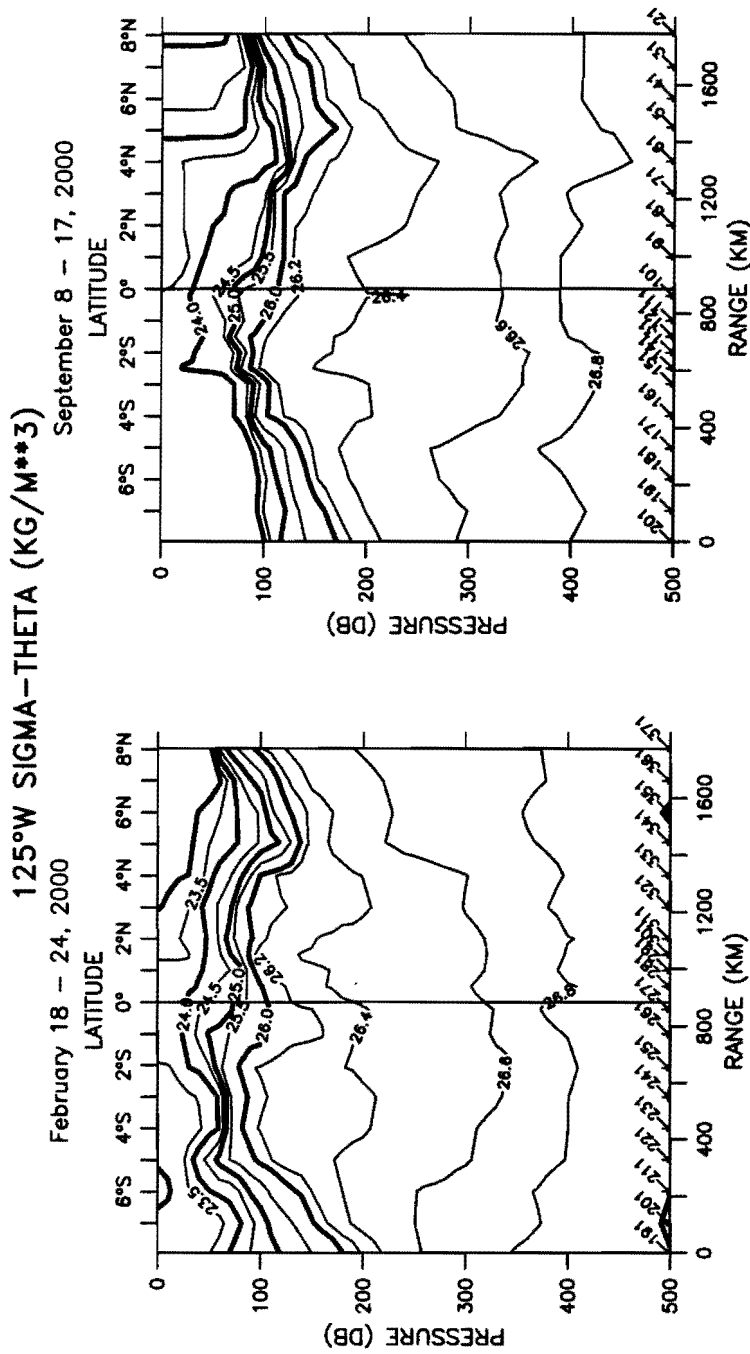


Figure 23: GP1-00-KA winter and GP5-00-KA fall potential density (kg/m^3) sections along 125°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

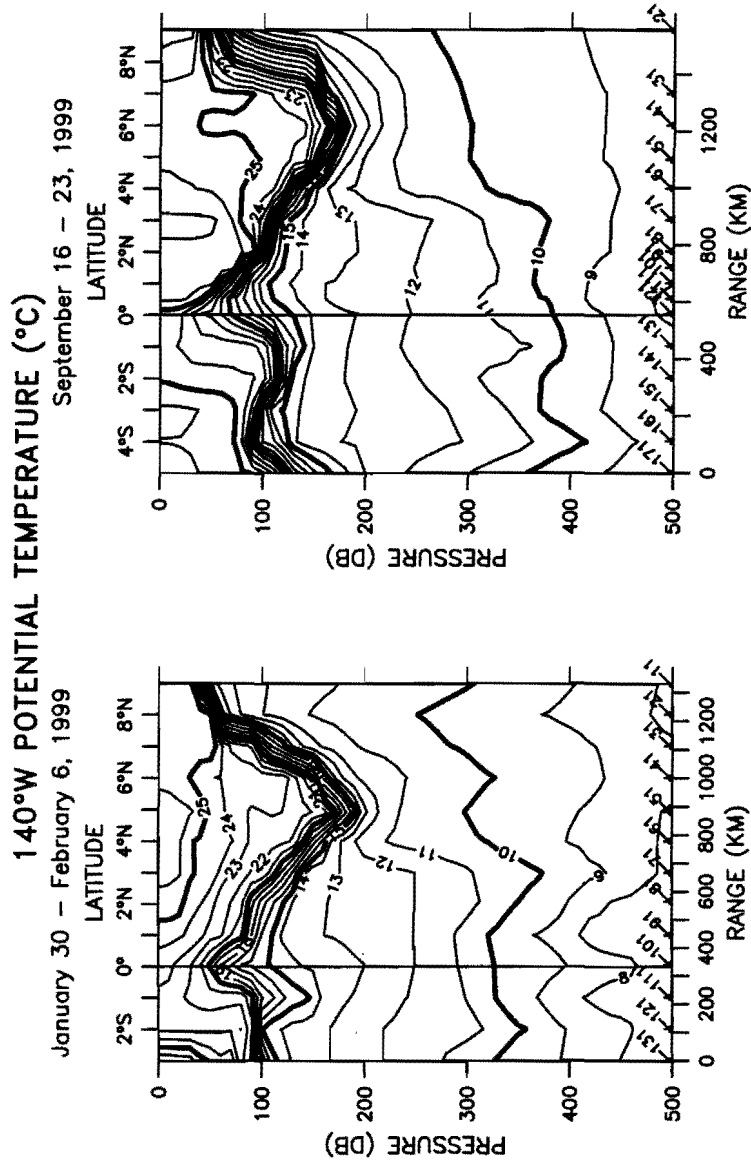


Figure 24: GP1-99-KA winter and GP5-99-KA fall potential temperature (°C) sections along 140°W. Contour intervals are 1°C.

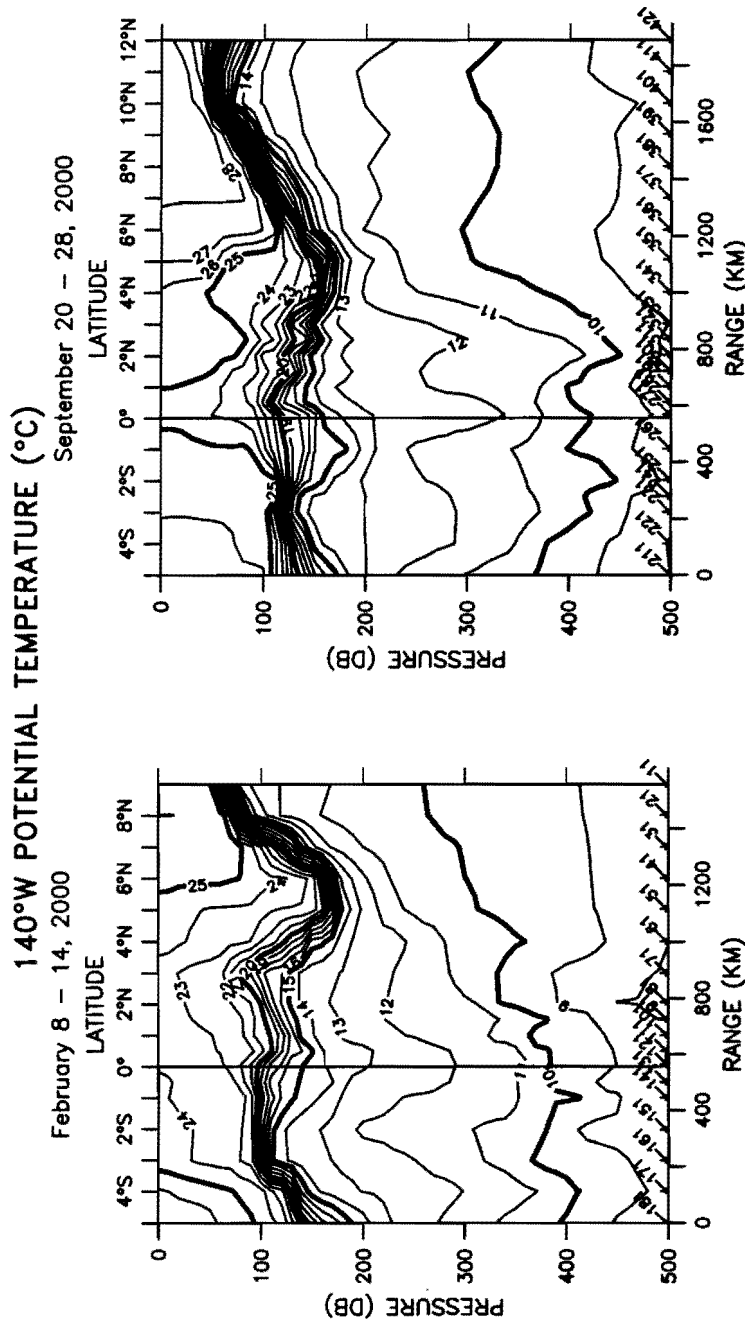


Figure 25: GP1-00-KA winter and GP5-00-KA fall potential temperature (°C) sections along 140°W. Contour intervals are 1°C.

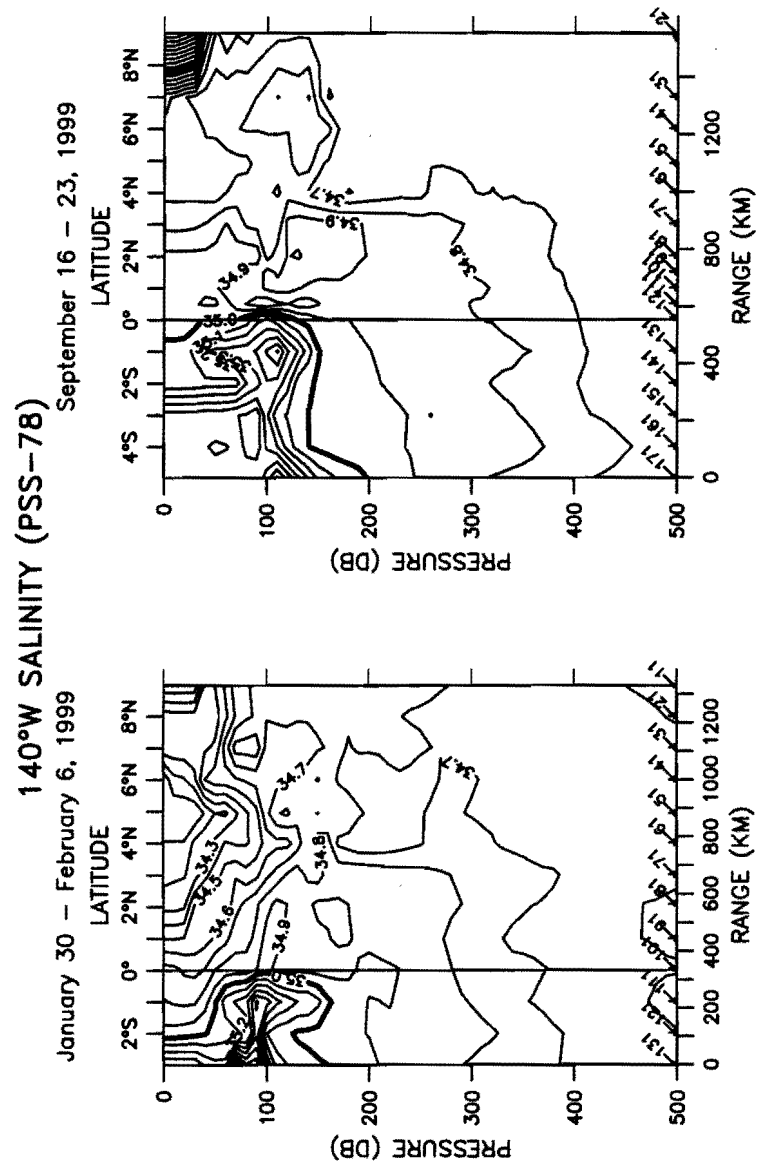


Figure 26: GP1-99-KA winter and GP5-99-KA fall salinity (PSS-78) sections along 140°W. Contour intervals are 0.1 PSS.

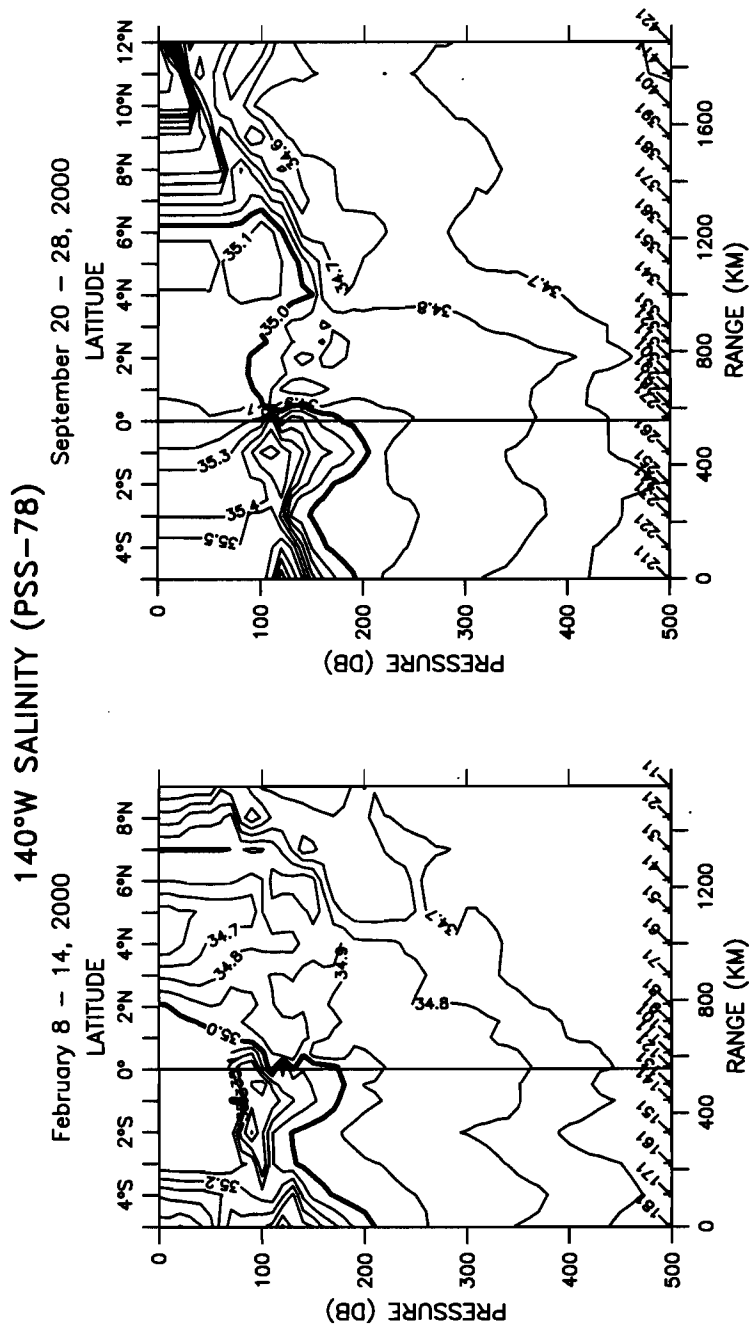


Figure 27: GP1-00-KA winter and GP5-00-KA fall salinity (PSS-78) sections along 140°W. Contour intervals are 0.1 PSS.

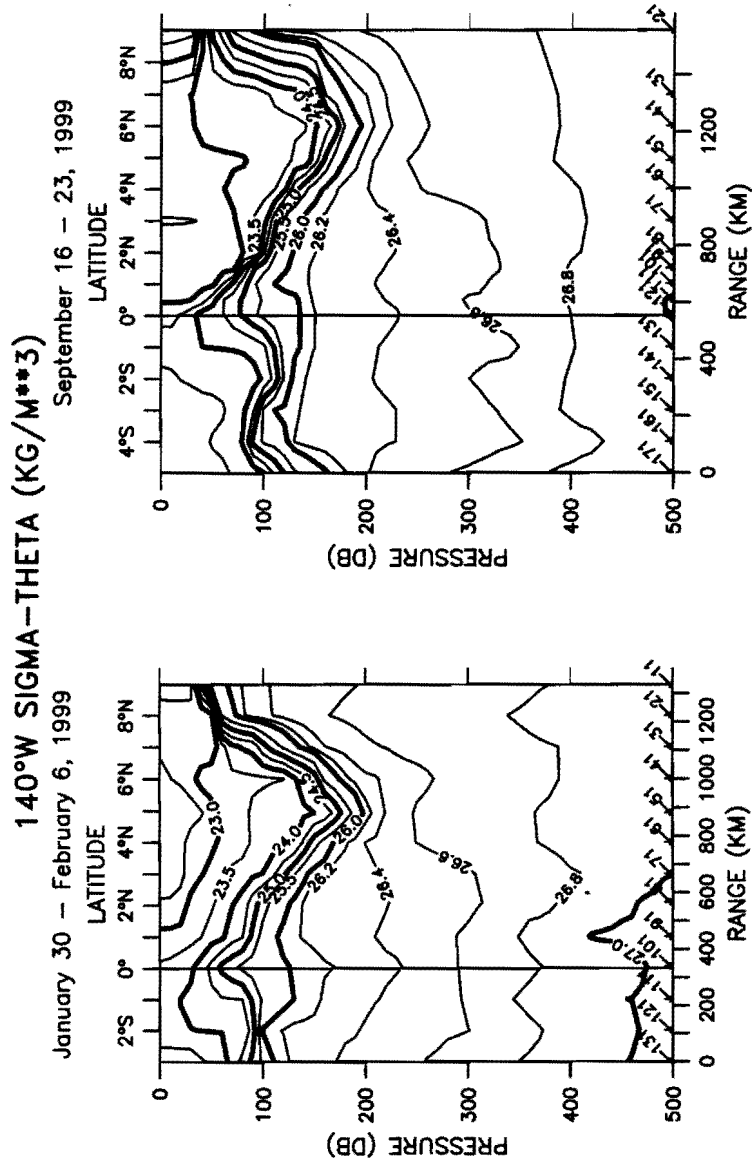


Figure 28: GP1-99-KA winter and GP5-99-KA fall potential density (kg/m^3) sections along 140°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

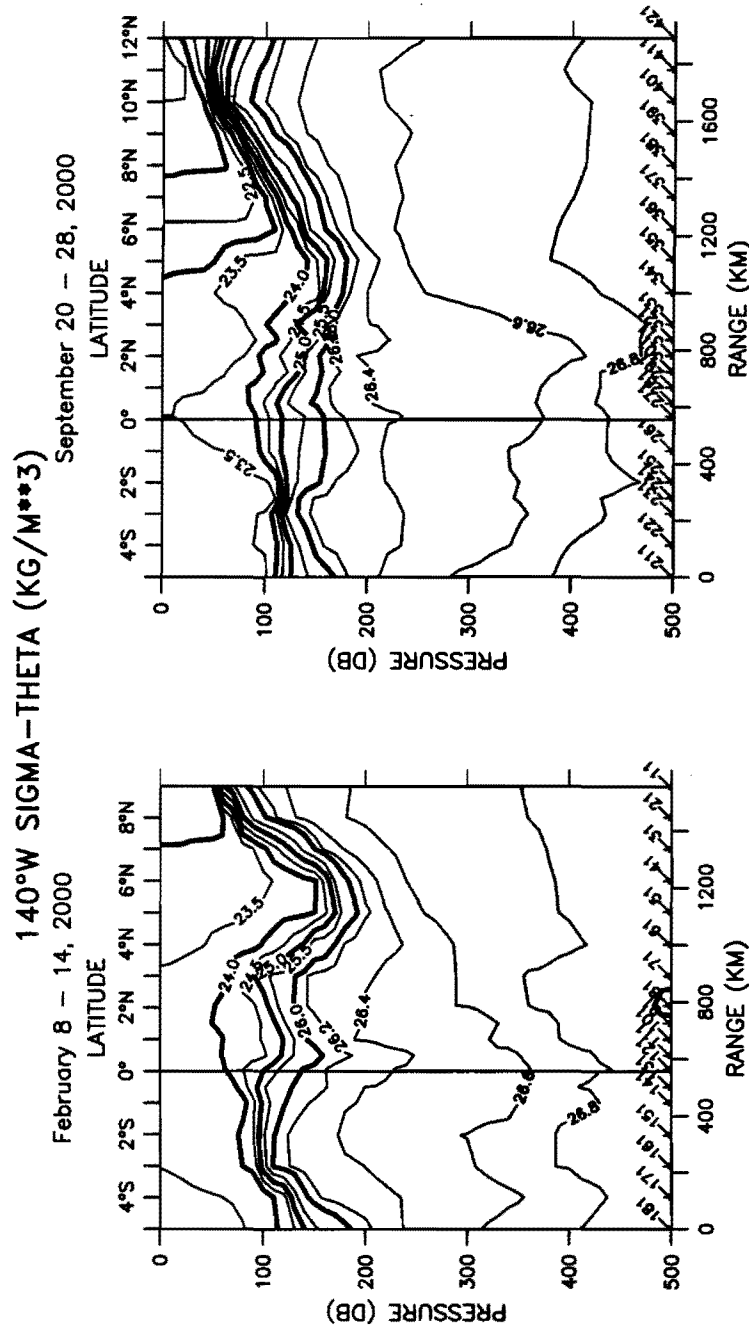


Figure 29: GP1-00-KA winter and GP5-00-KA fall potential density (kg/m^3) sections along 140°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

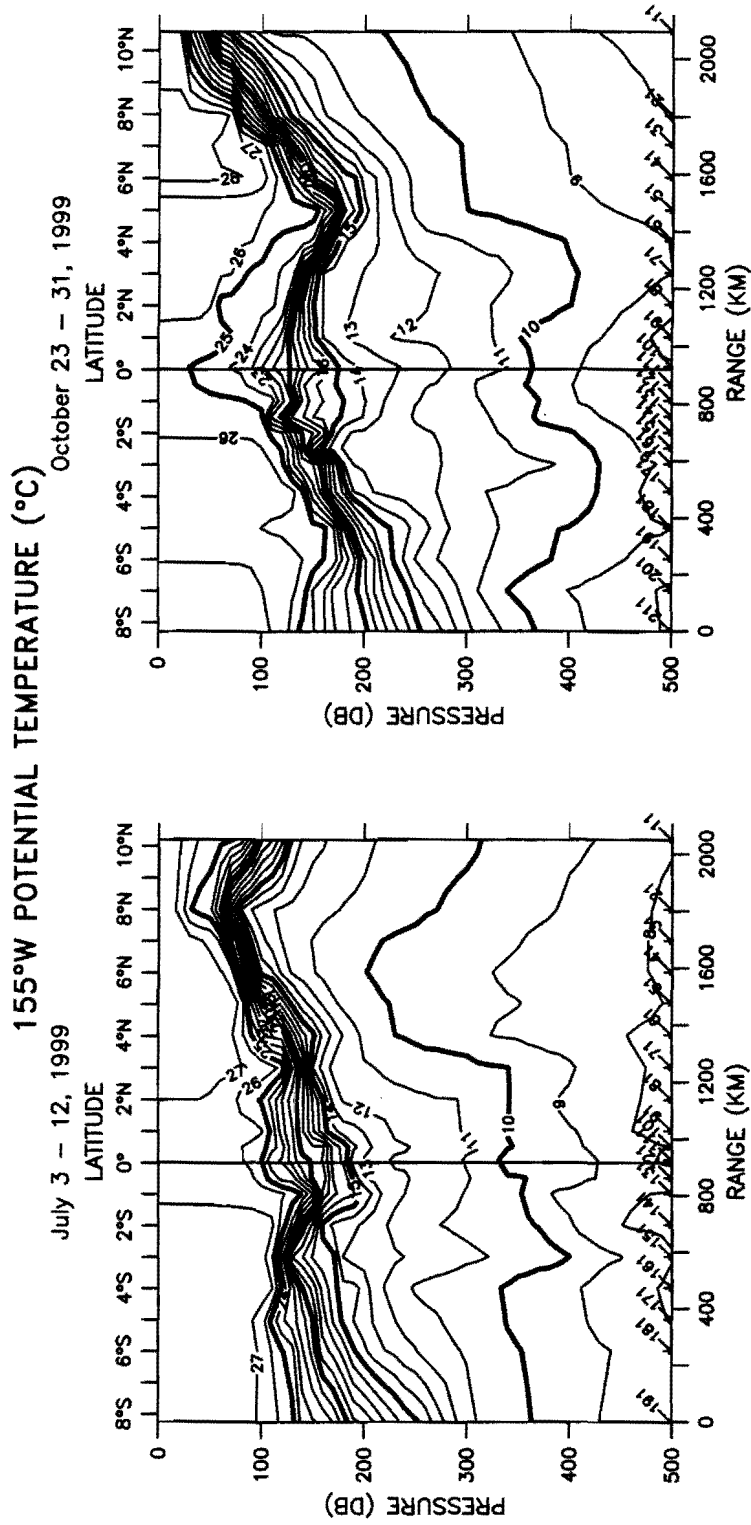


Figure 30: GP3-99-KA summer and GP7-99-KA fall potential temperature (°C) sections along 155°W. Contour intervals are 1°C.

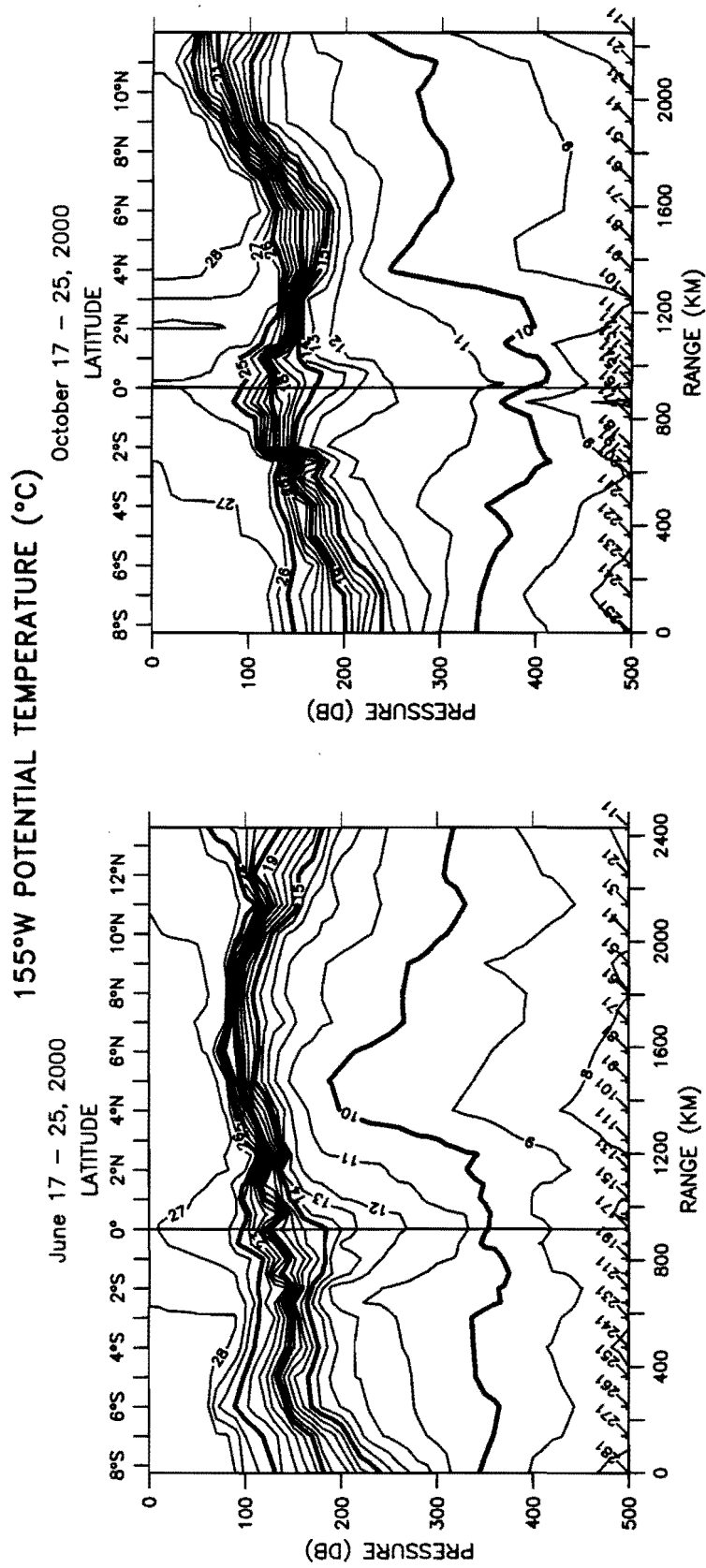


Figure 31: GP3-00-KA summer and GP6-00-KA fall potential temperature ($^{\circ}\text{C}$) sections along 155°W . Contour intervals are 1°C .

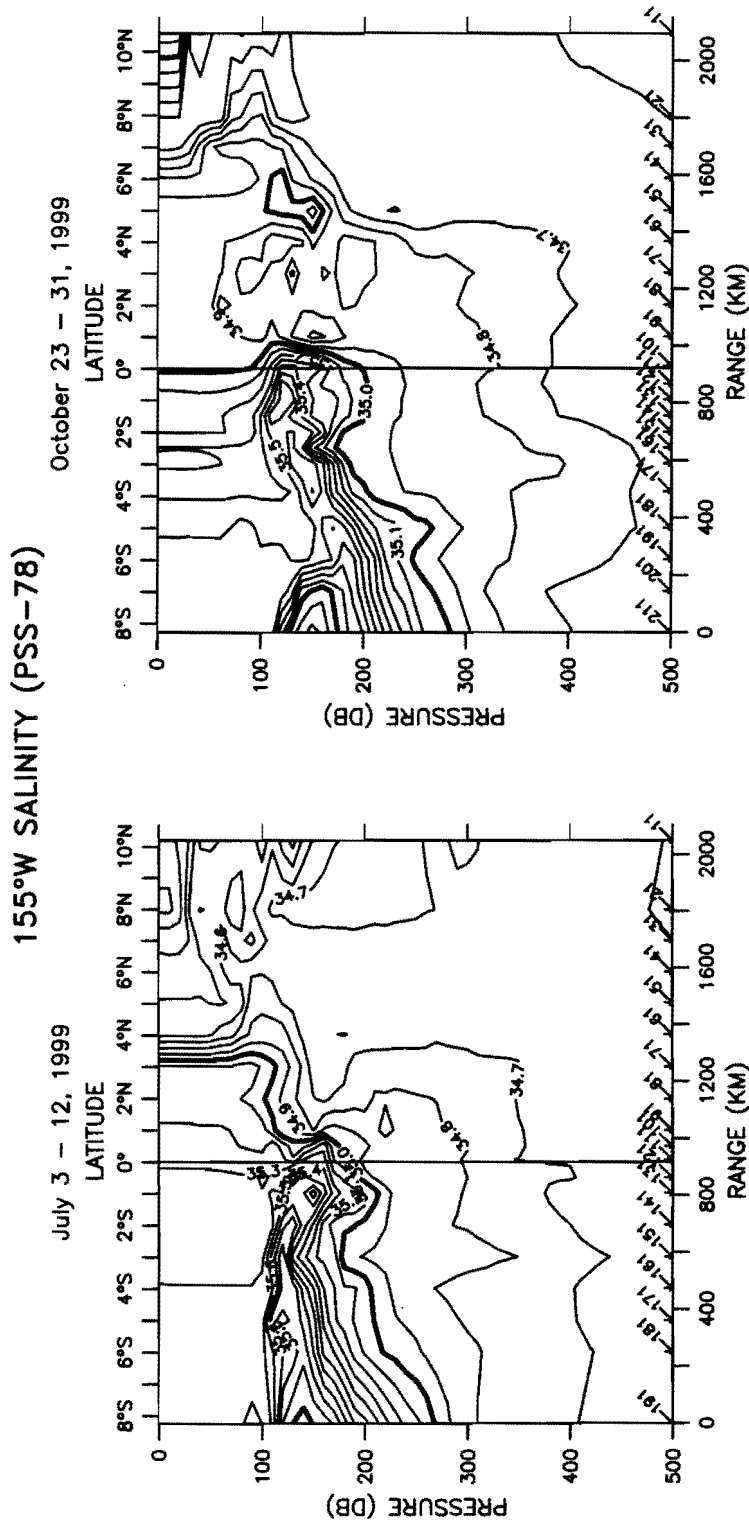


Figure 32: GP3-99-KA summer and GP7-99-KA fall salinity (PSS-78) sections along 155°W. Contour intervals are 0.1 PSS.

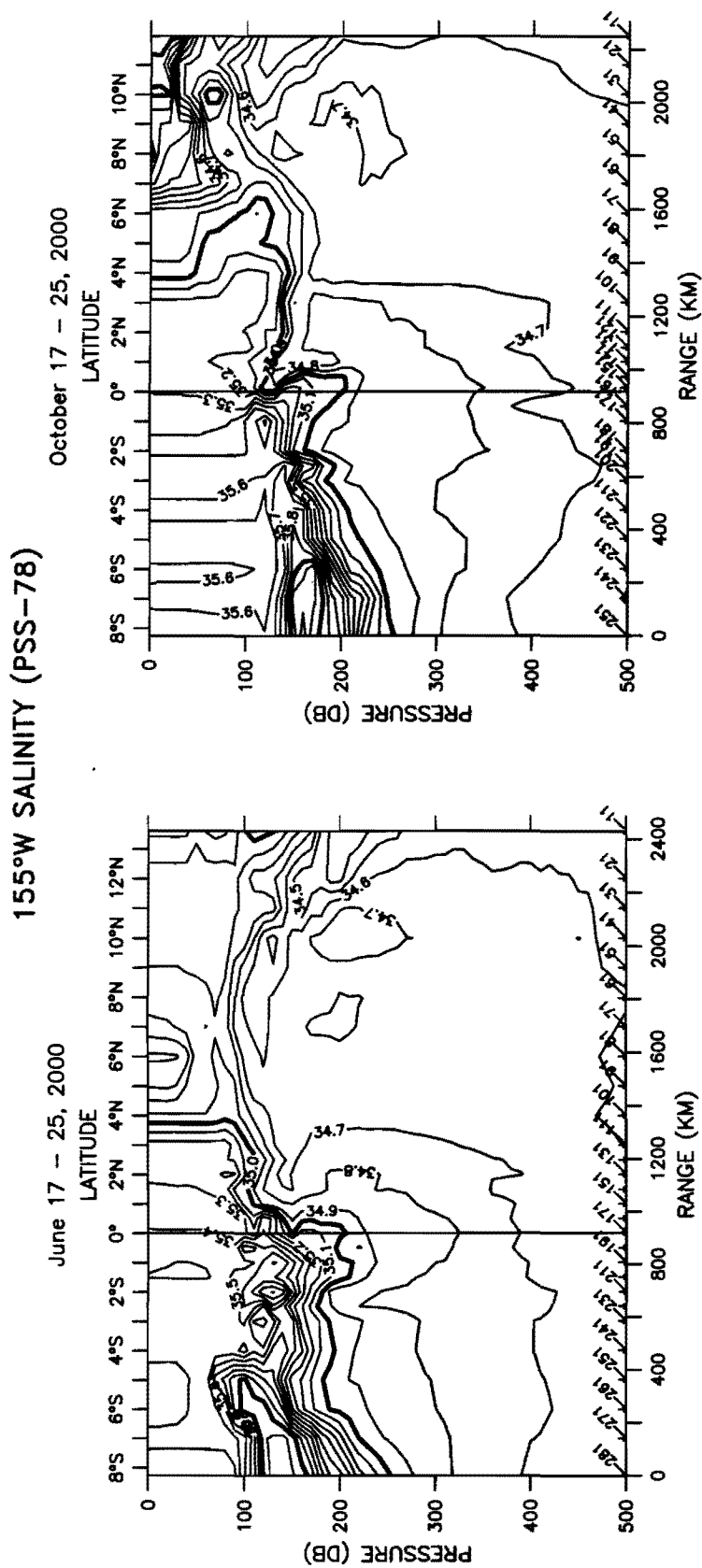


Figure 33: GP3-00-KA summer and GP6-00-KA fall salinity (PSS-78) sections along 155°W. Contour intervals are 0.1 PSS.

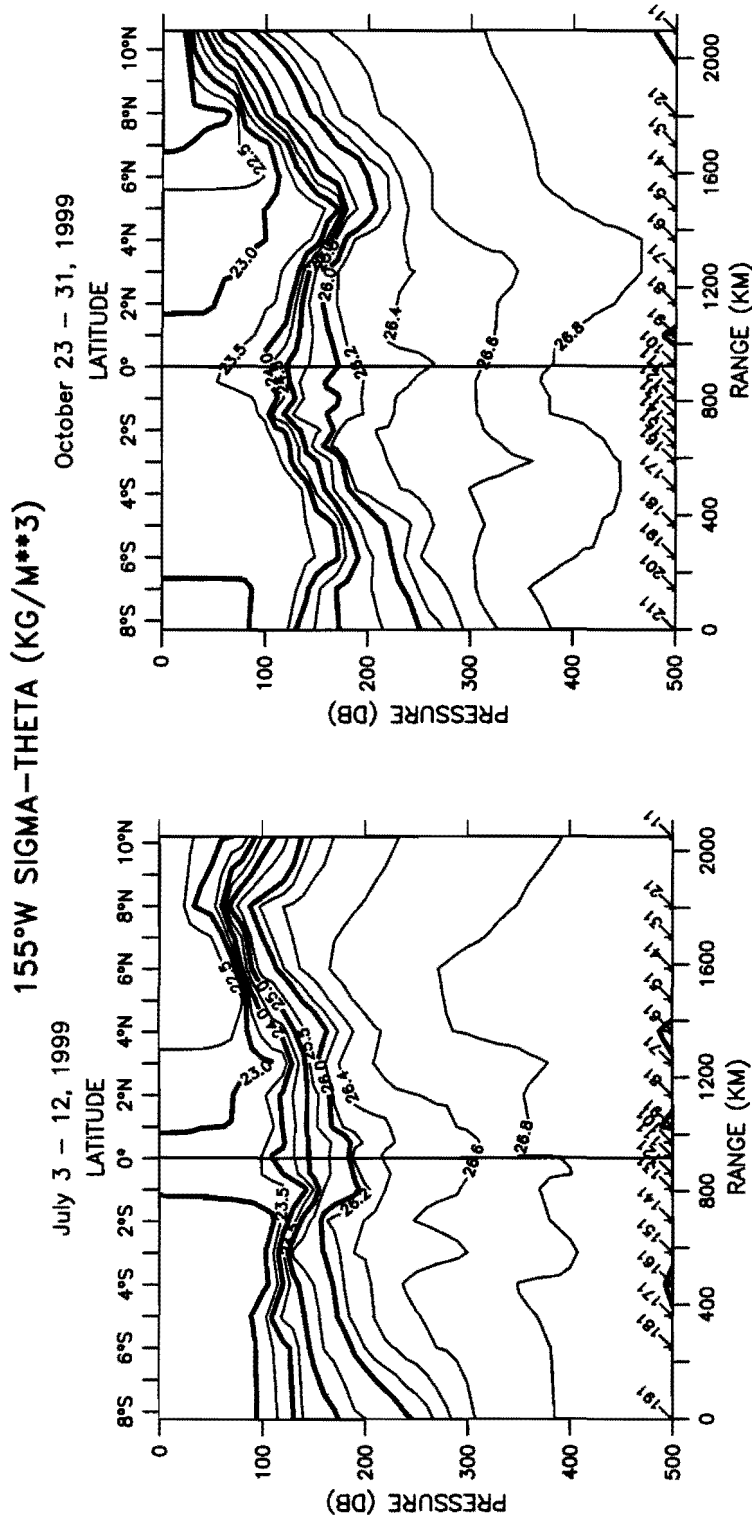


Figure 34: GP3-99-KA summer and GP7-99-KA fall potential density (kg/m^3) sections along 155°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

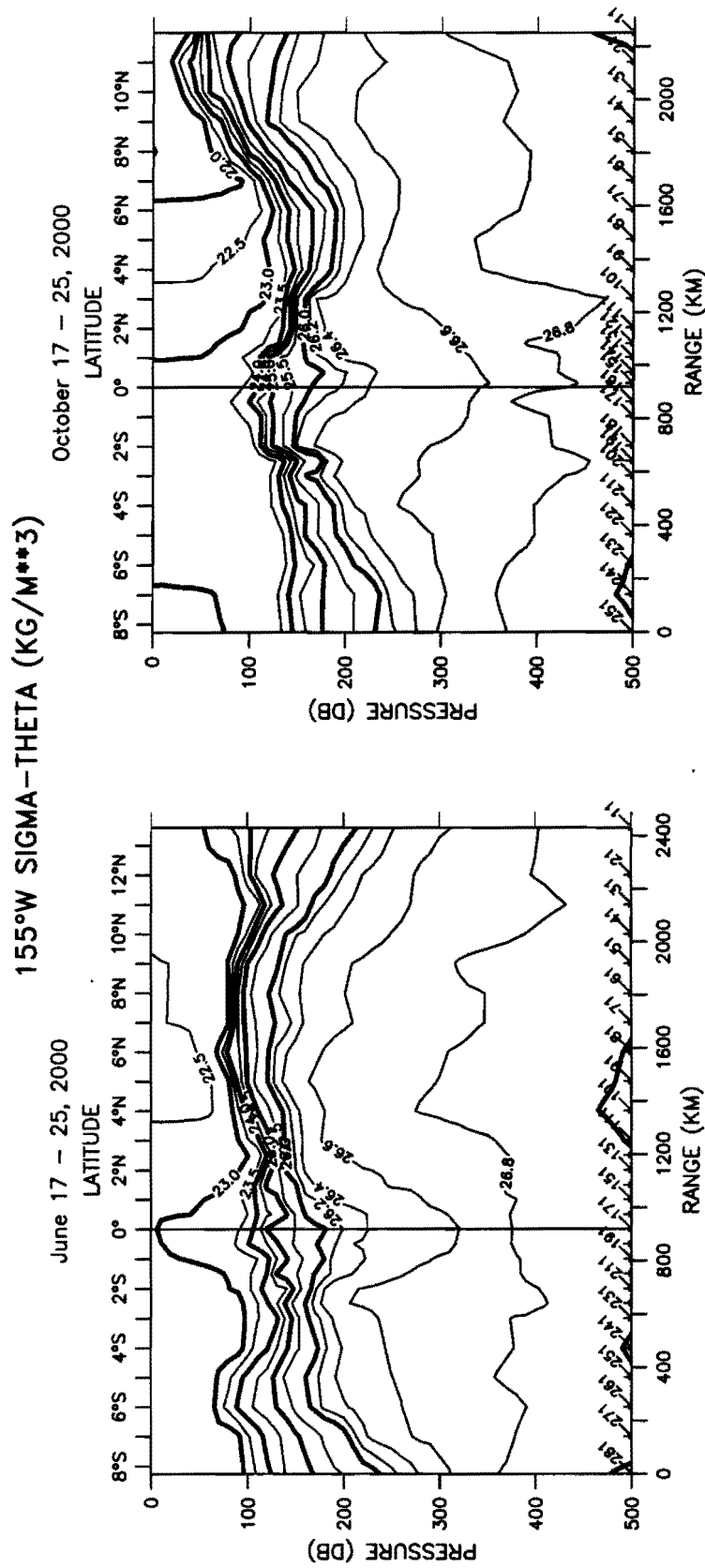


Figure 35: GP3-00-KA summer and GP6-00-KA fall potential density (kg/m^3) sections along 155°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

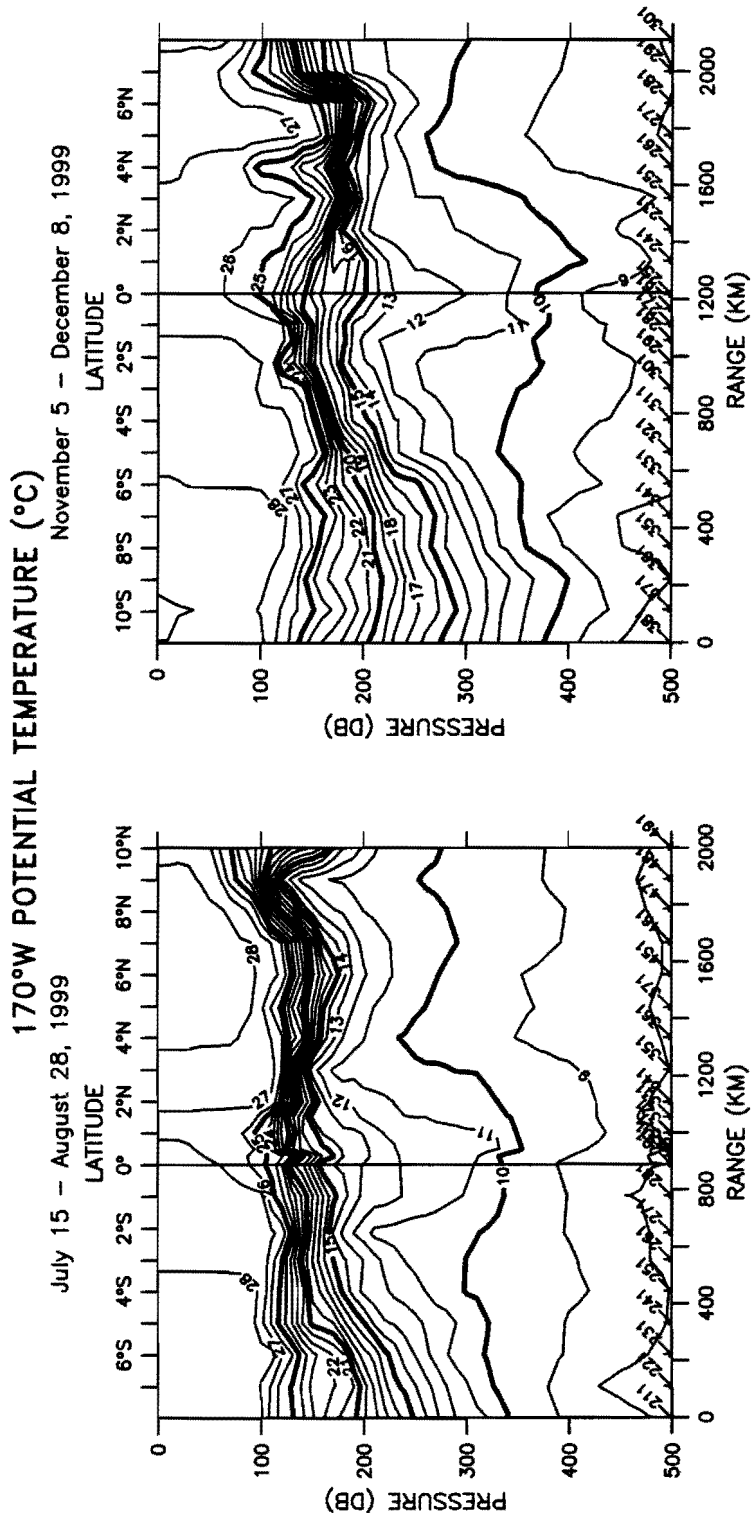


Figure 36: GP3-99-KA summer and GP7/9-99-KA fall potential temperature (°C) sections along 170°W. Contour intervals are 1°C.

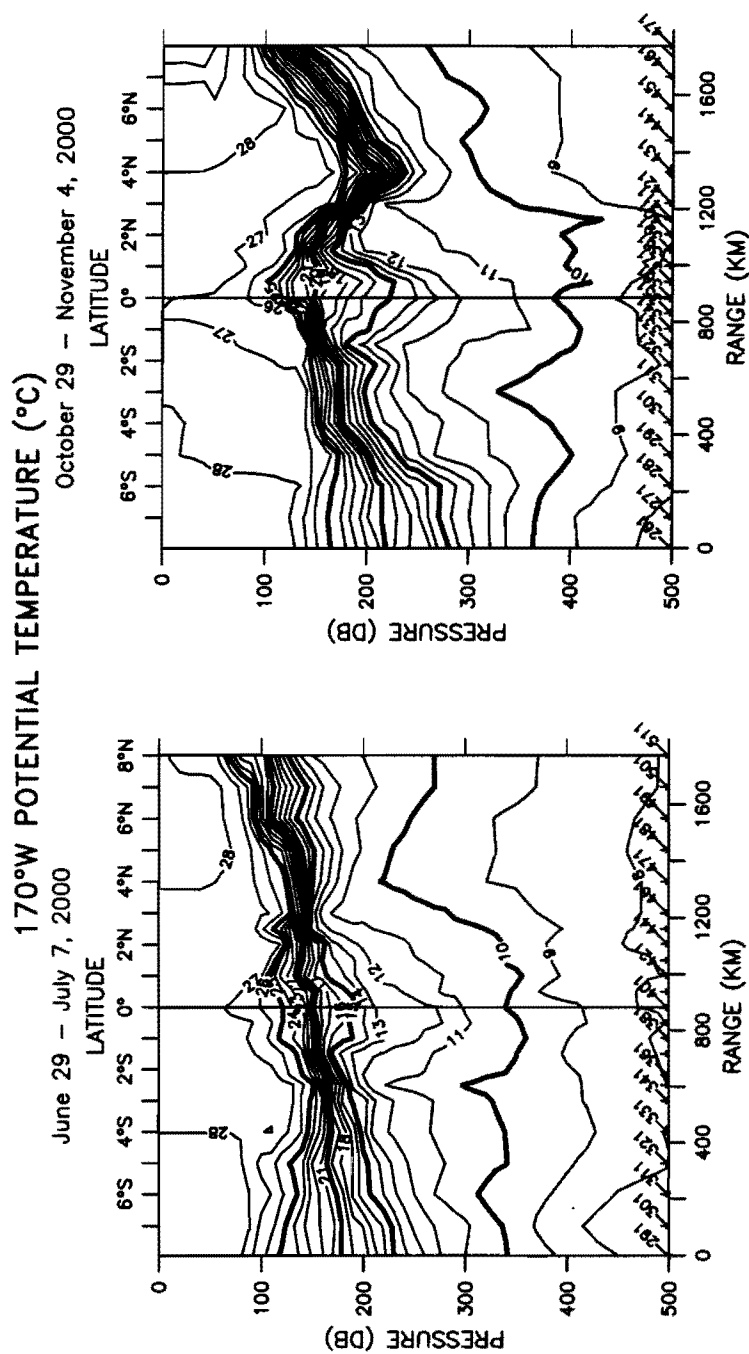


Figure 37: GP3-00-KA summer and GP6-00-KA fall potential temperature (°C) sections along 170°W. Contour intervals are 1°C.

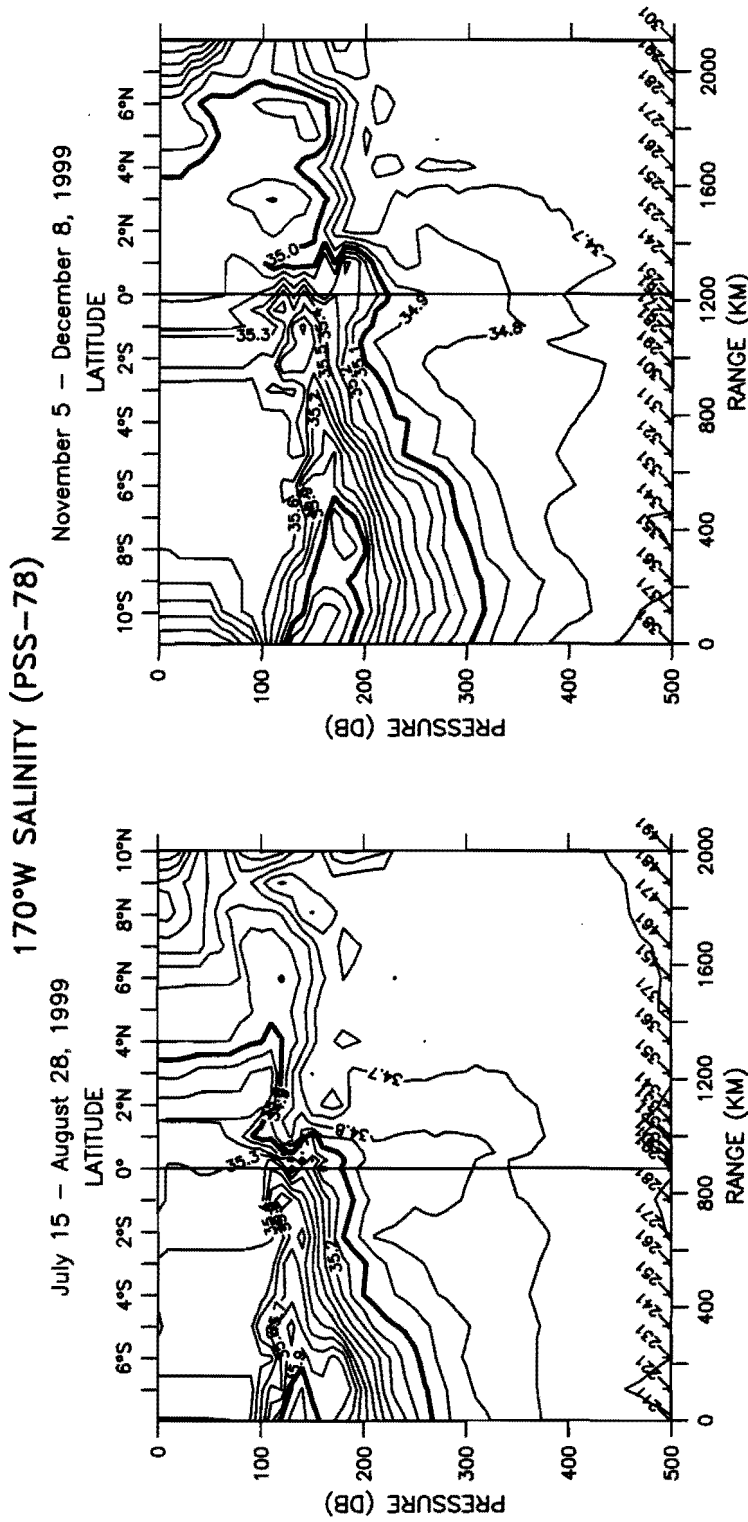


Figure 38: GP3-99-KA summer and GP7/9-99-KA fall salinity (PSS-78) sections along 170°W. Contour intervals are 0.1 PSS.

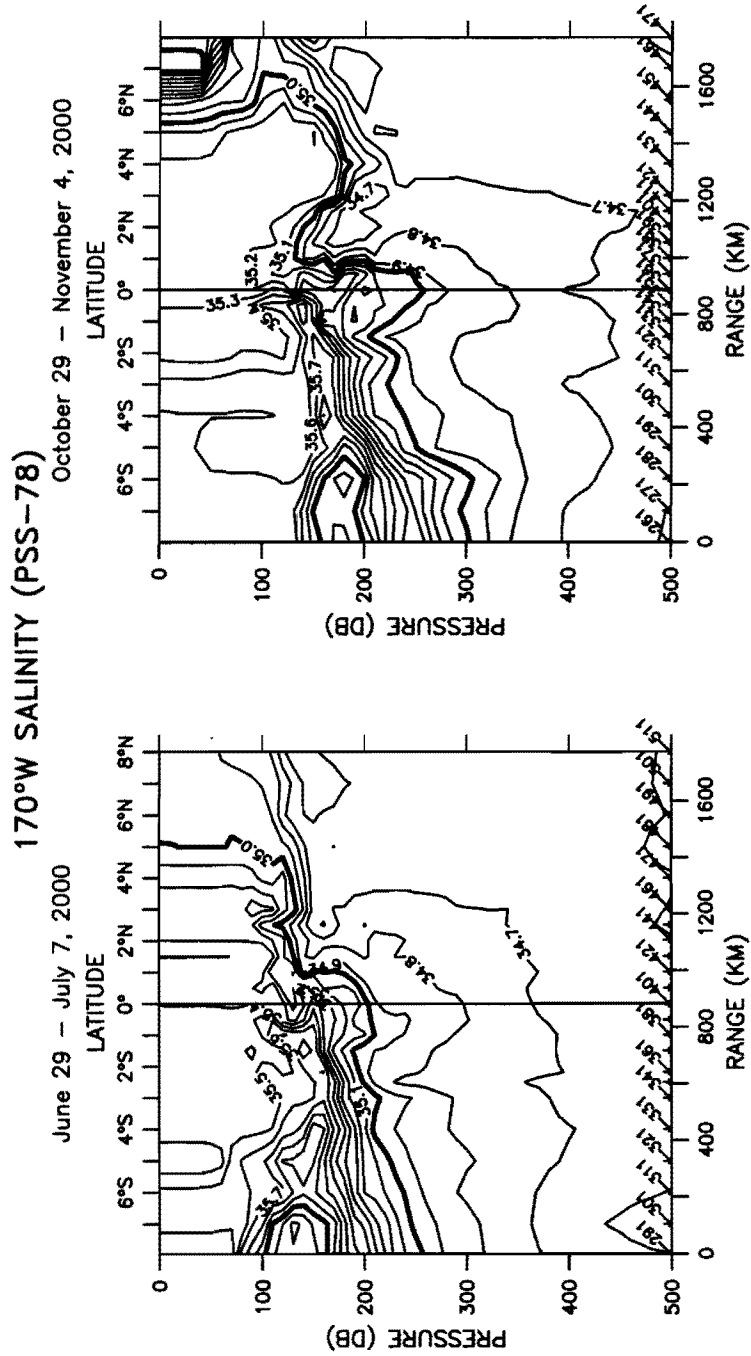


Figure 39: GP3-00-KA summer and GP6-00-KA fall salinity (PSS-78) sections along 170°W. Contour intervals are 0.1 PSS.

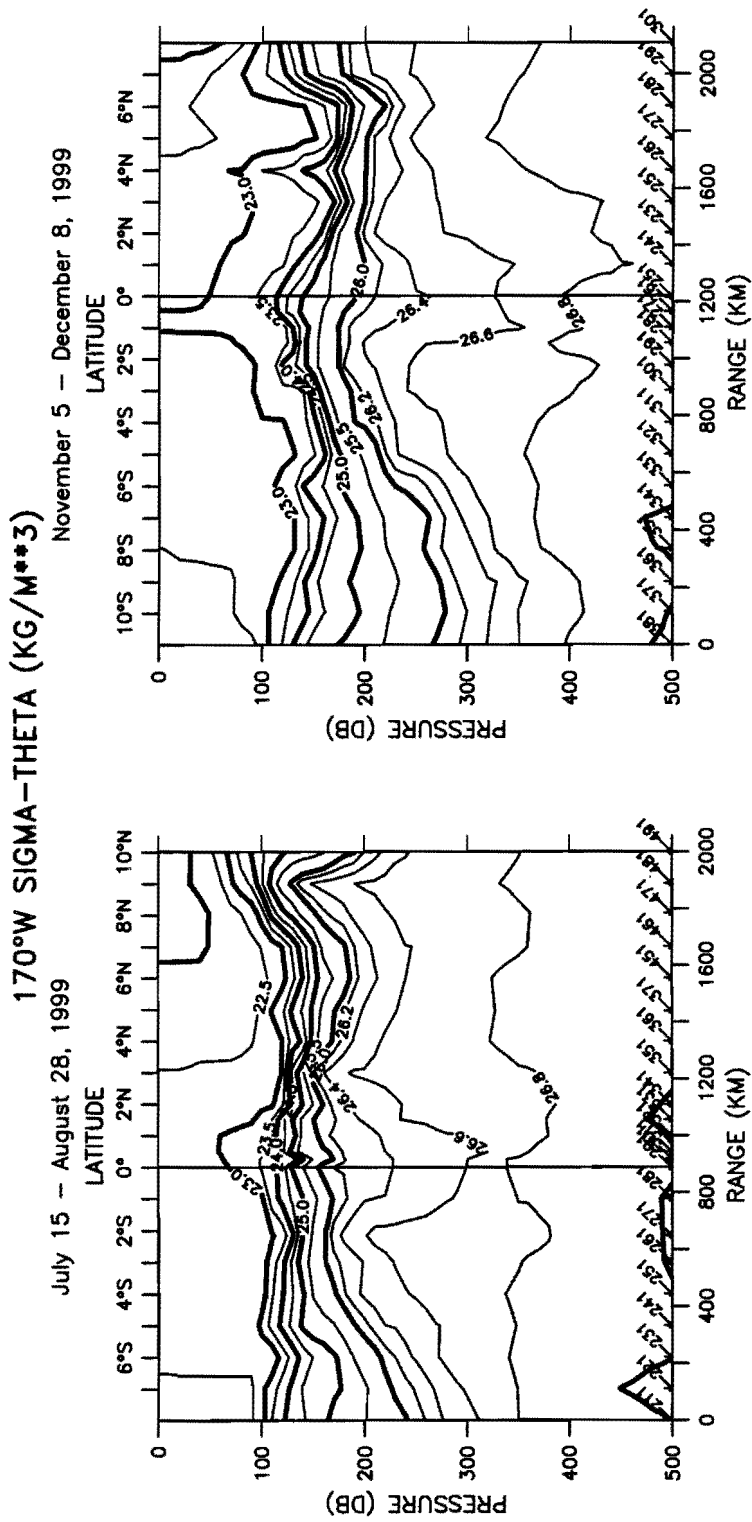


Figure 40: GP3-99-KA summer and GP7/9-99-KA fall potential density (kg/m^3) sections along 170°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

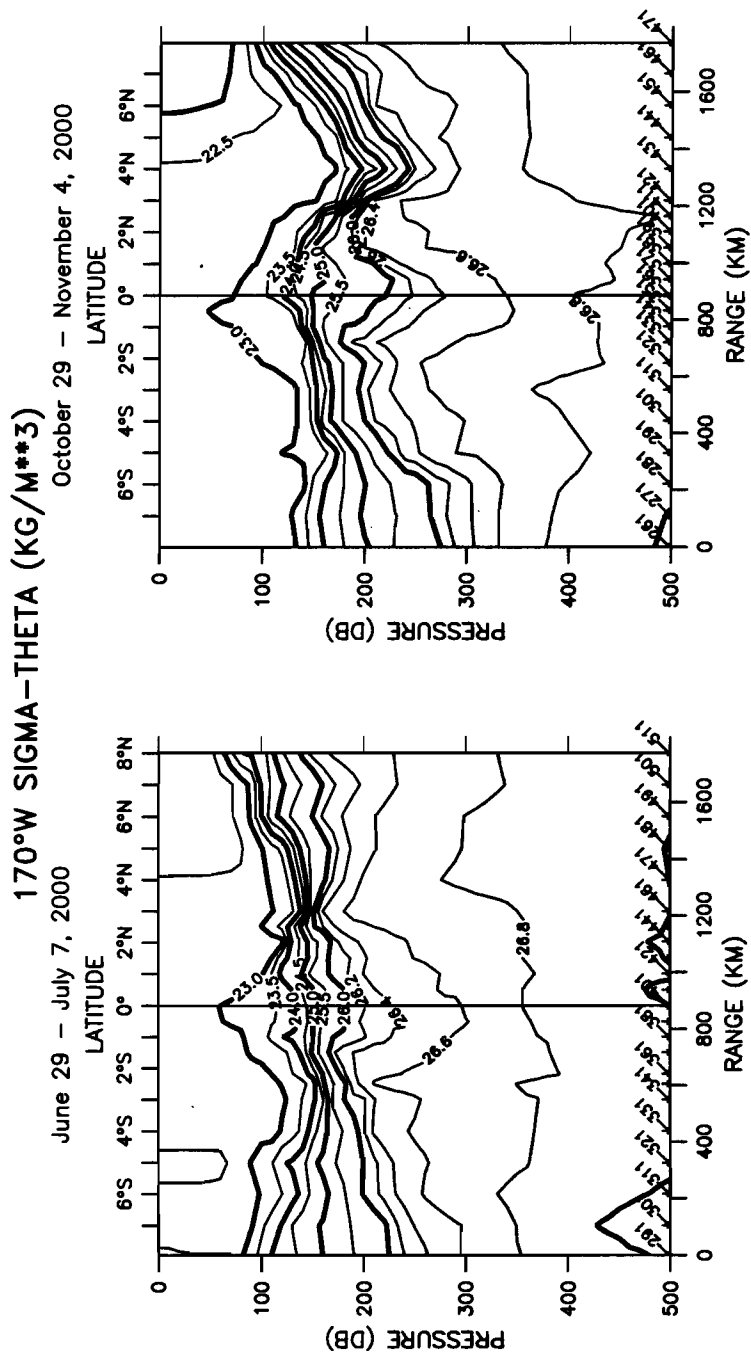


Figure 41: GP3-00-KA summer and GP6-00-KA fall potential density (kg/m^3) sections along 170°W . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

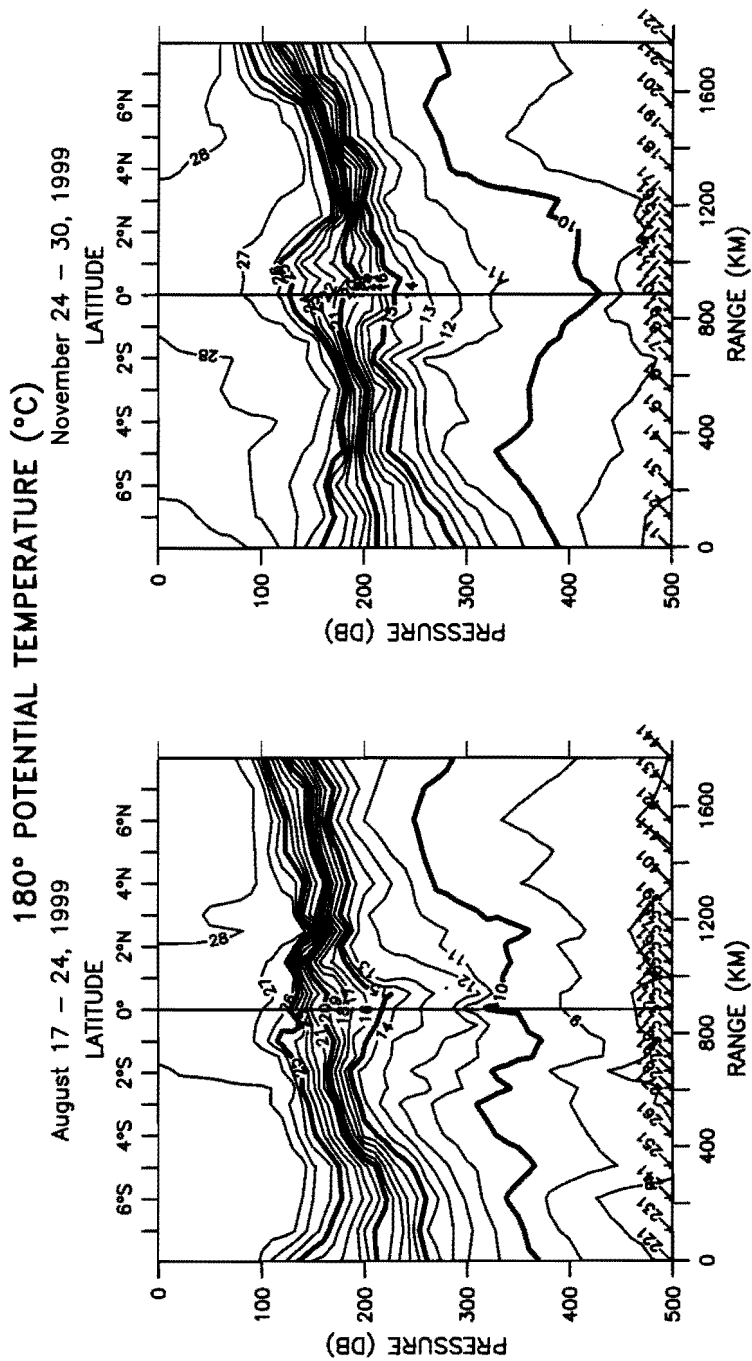


Figure 42: GP4-99-KA summer and GP9-99-KA fall potential temperature (°C) sections along 180°. Contour intervals are 1°C.

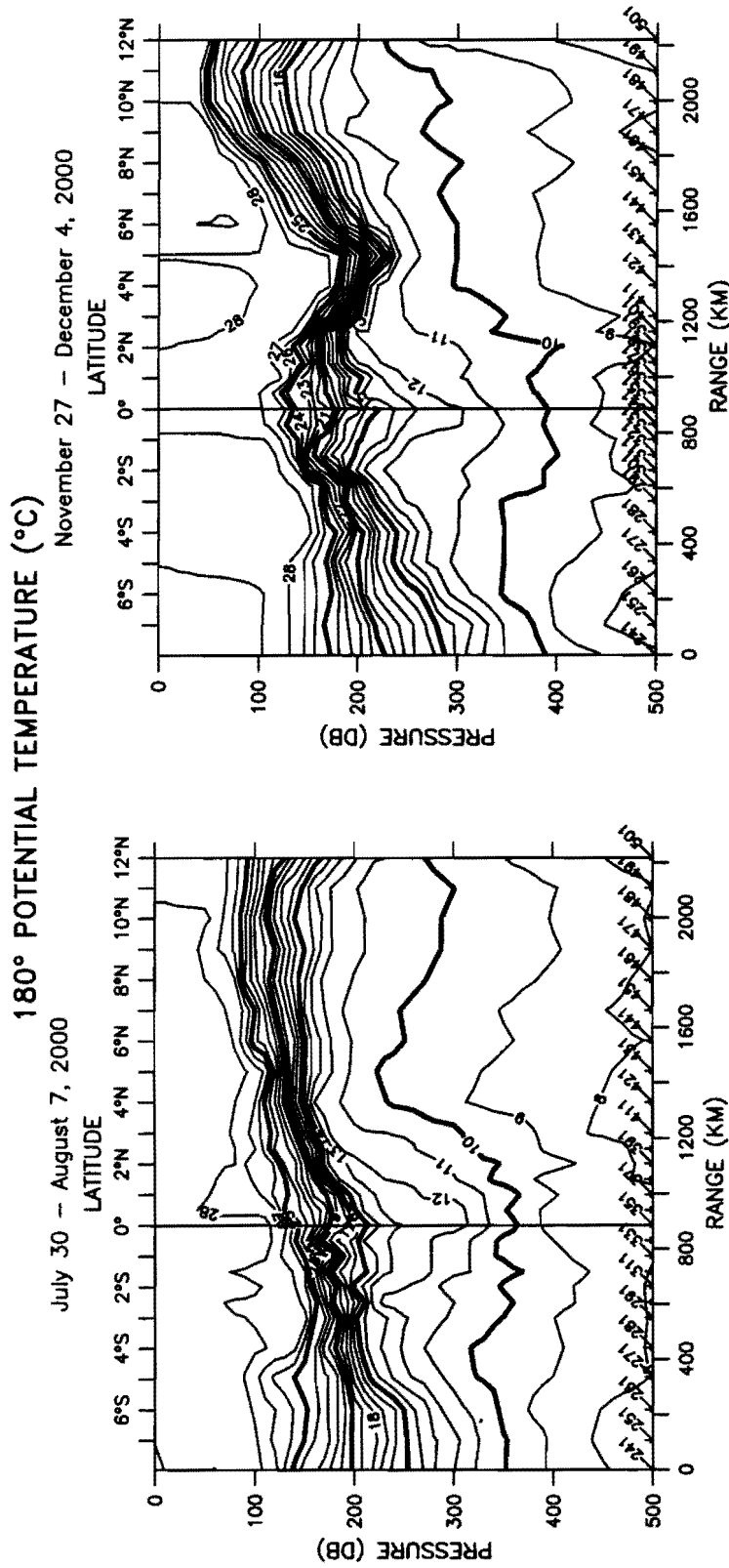


Figure 43: GP4-00-KA summer and GP8-00-KA fall potential temperature (°C) sections along 180°. Contour intervals are 1°C.

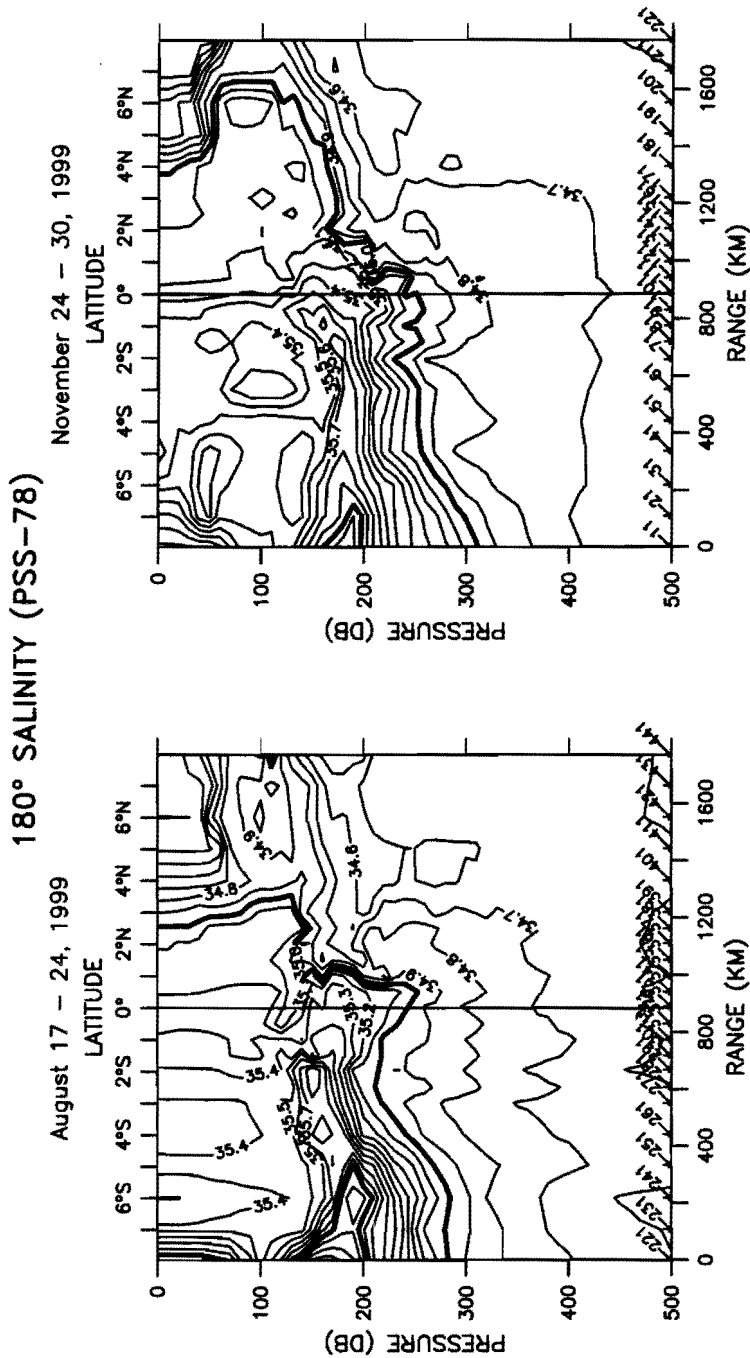


Figure 44: GP4-99-KA summer and GP9-99-KA fall salinity (PSS-78) sections along 180°. Contour intervals are 0.1 PSS.

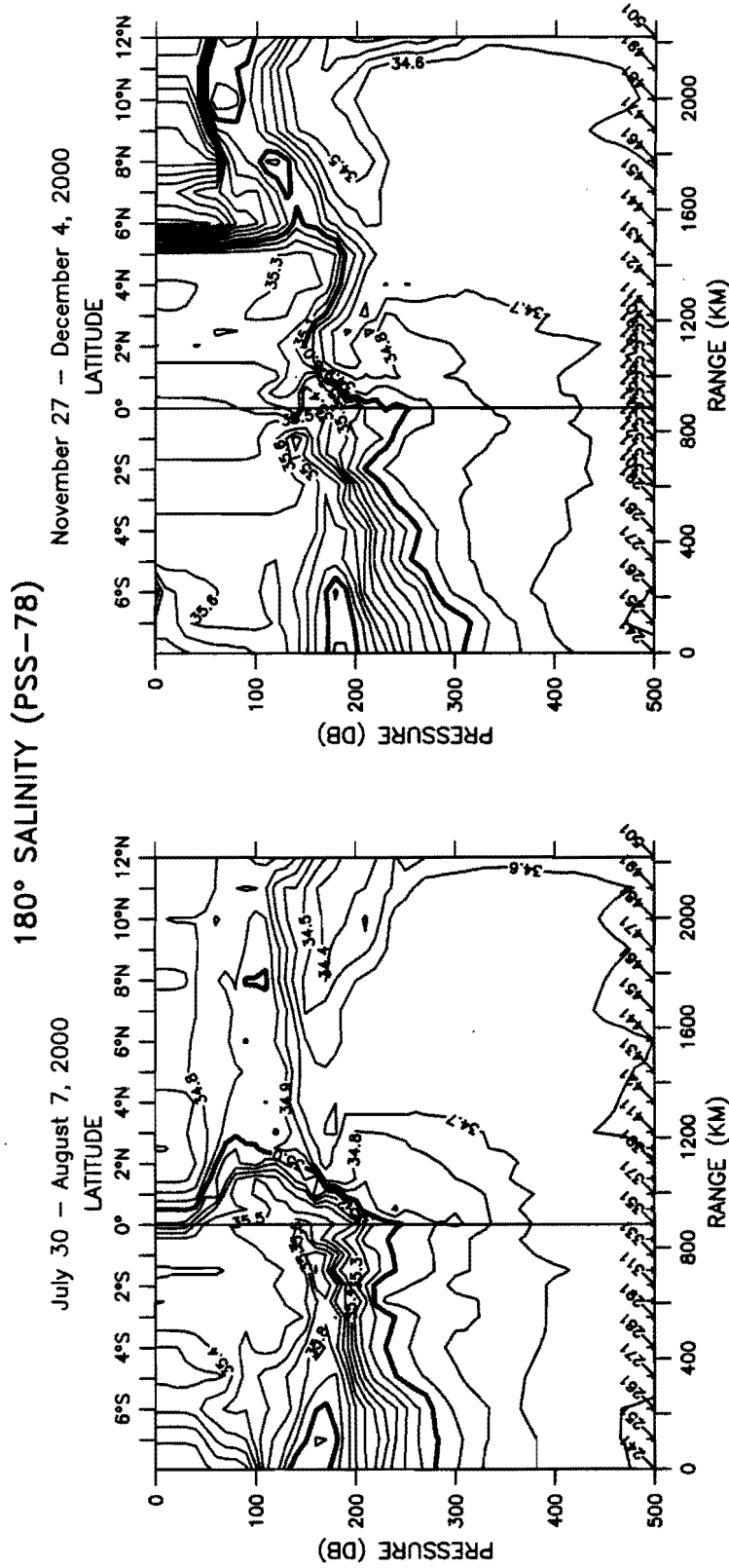


Figure 45: GP4-00-KA summer and GP8-00-KA fall salinity (PSS-78) sections along 180°. Contour intervals are 0.1 PSS.

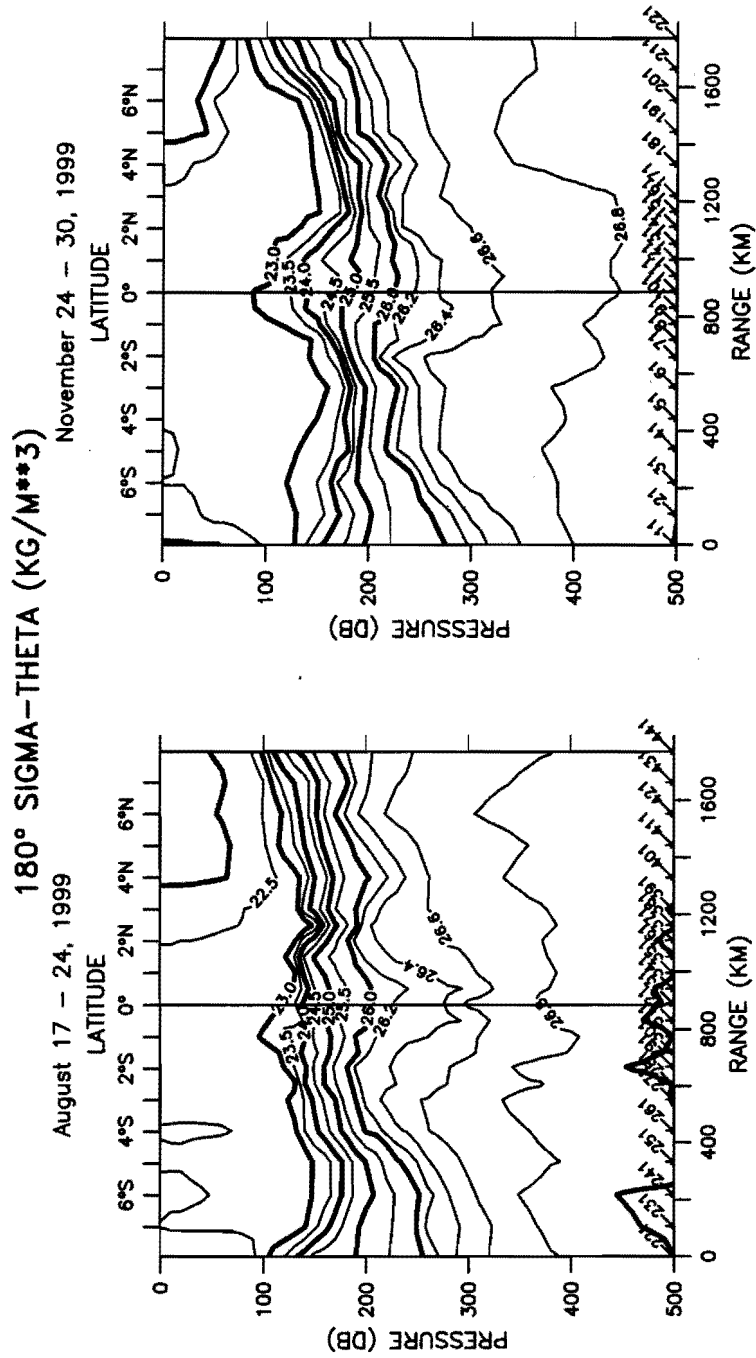


Figure 46: GP4-99-KA summer and GP9-99-KA fall potential density (kg/m³) sections along 180°. Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

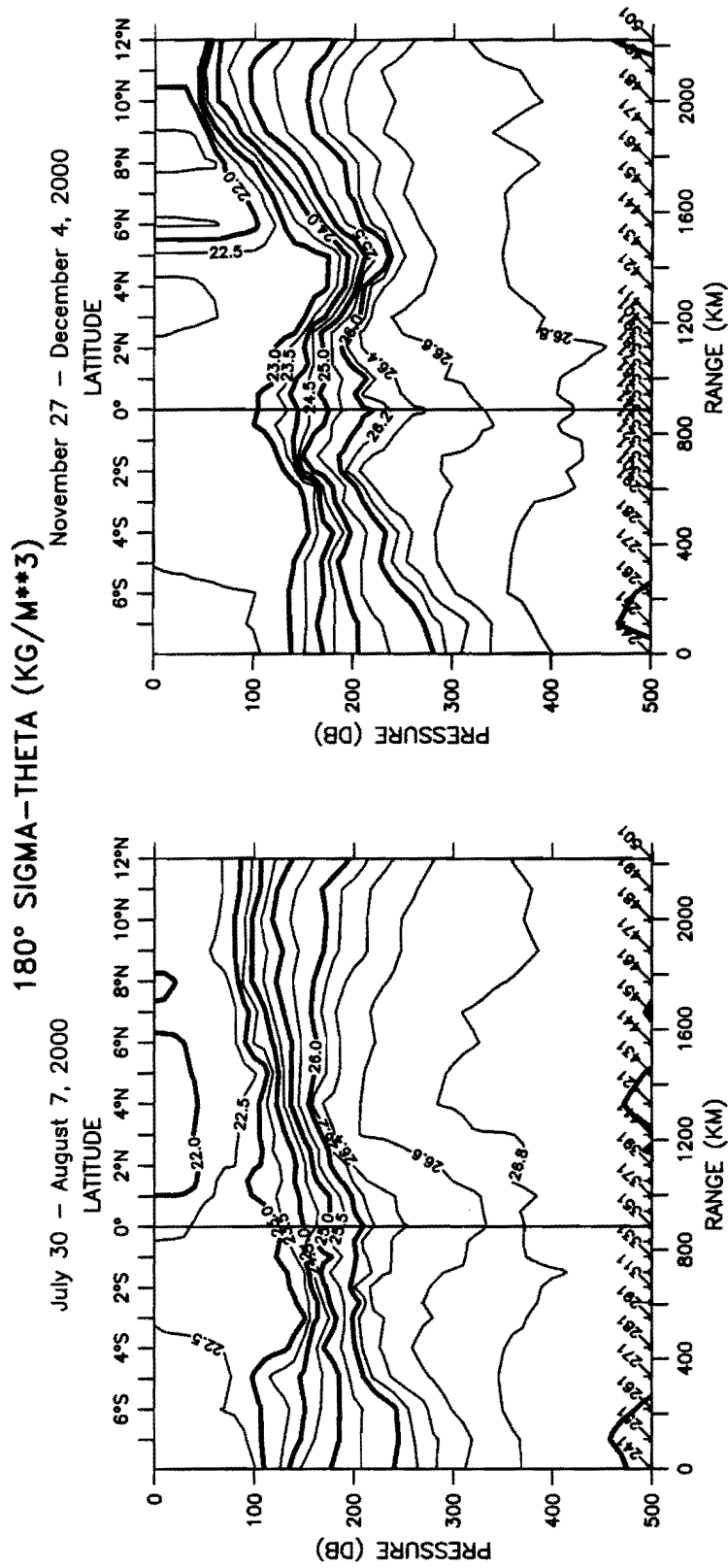


Figure 47: GP4-00-KA summer and GP8-00-KA fall potential density (kg/m^3) sections along 180° . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

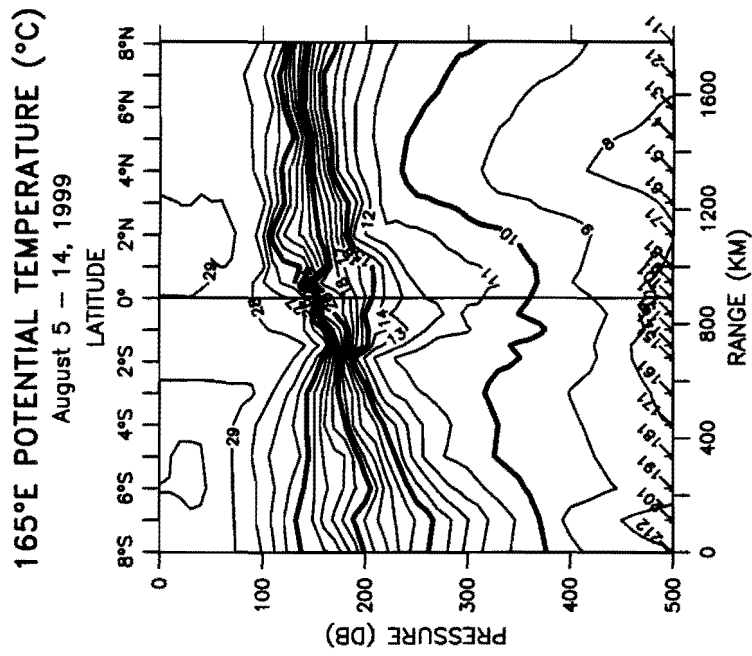


Figure 48: GP4-99-KA summer potential temperature (°C) section along 165°E. Contour intervals are 1°C.

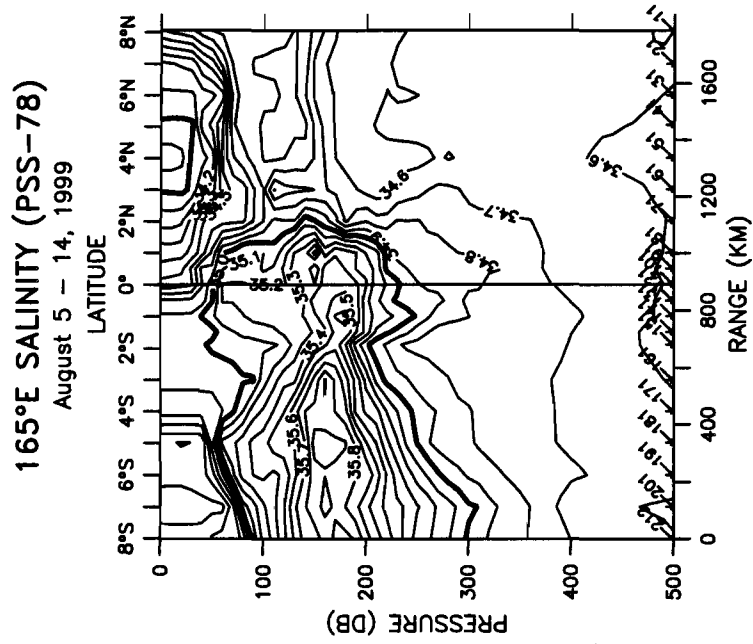


Figure 50: GP4-99-KA summer salinity (PSS-78) sections along 165°E. Contour intervals are 0.1 PSS.

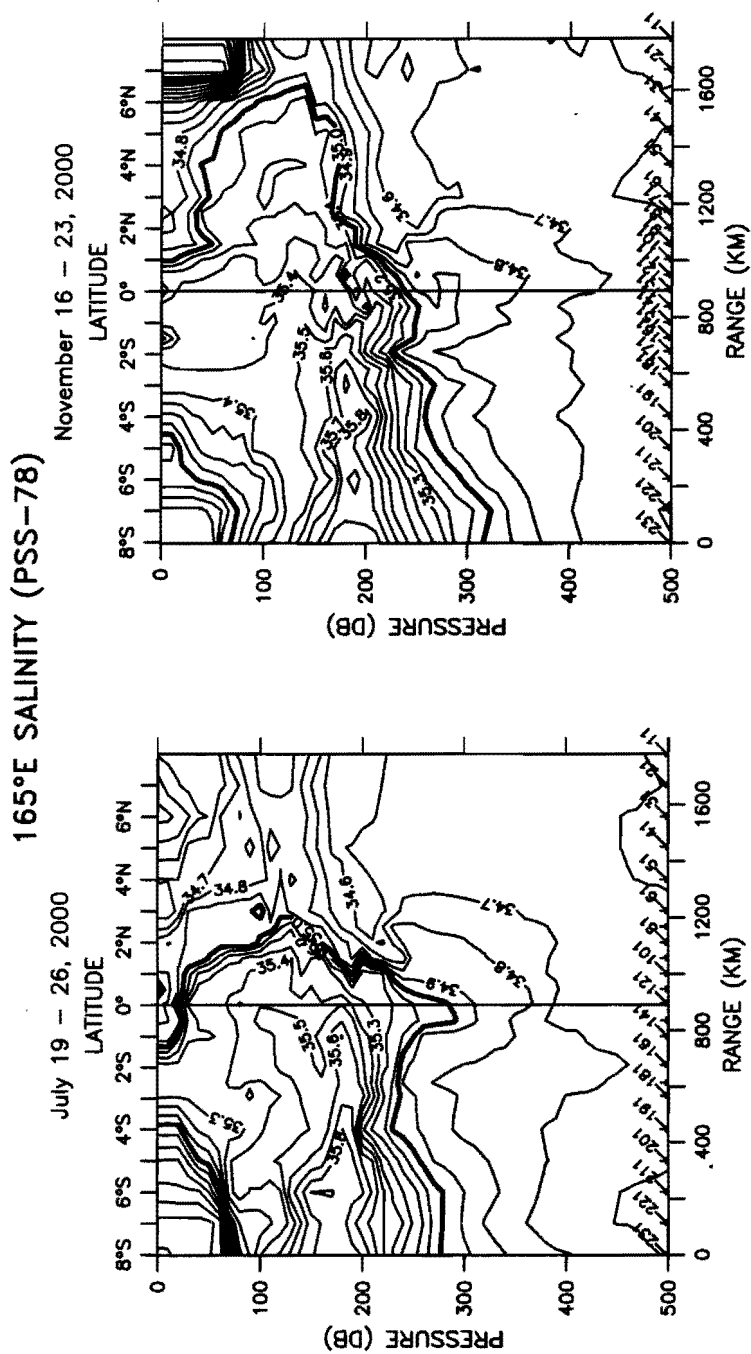


Figure 51: GP4-00-KA summer and GP8-00-KA fall salinity (PSS-78) sections along 165°E. Contour intervals are 0.1 PSS.

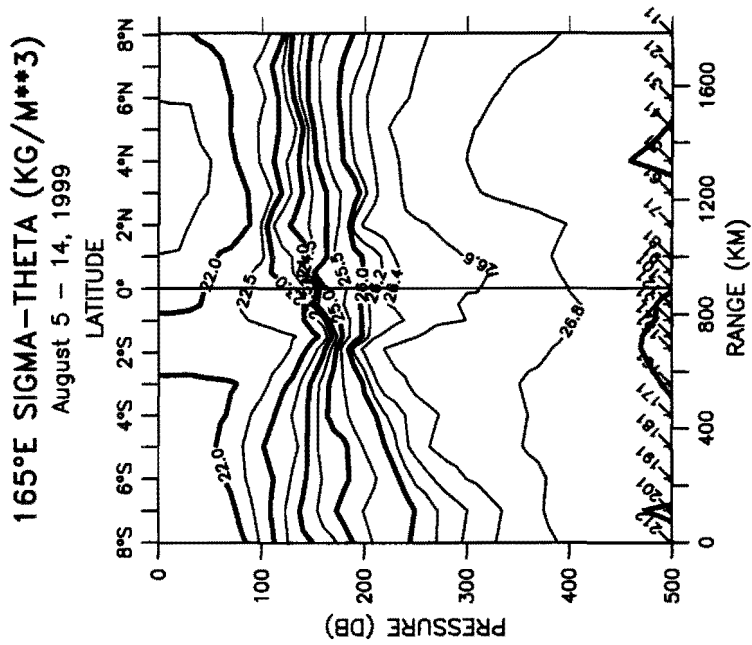


Figure 52: GP4-99-KA summer potential density (kg/m^3) section along 165°E . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

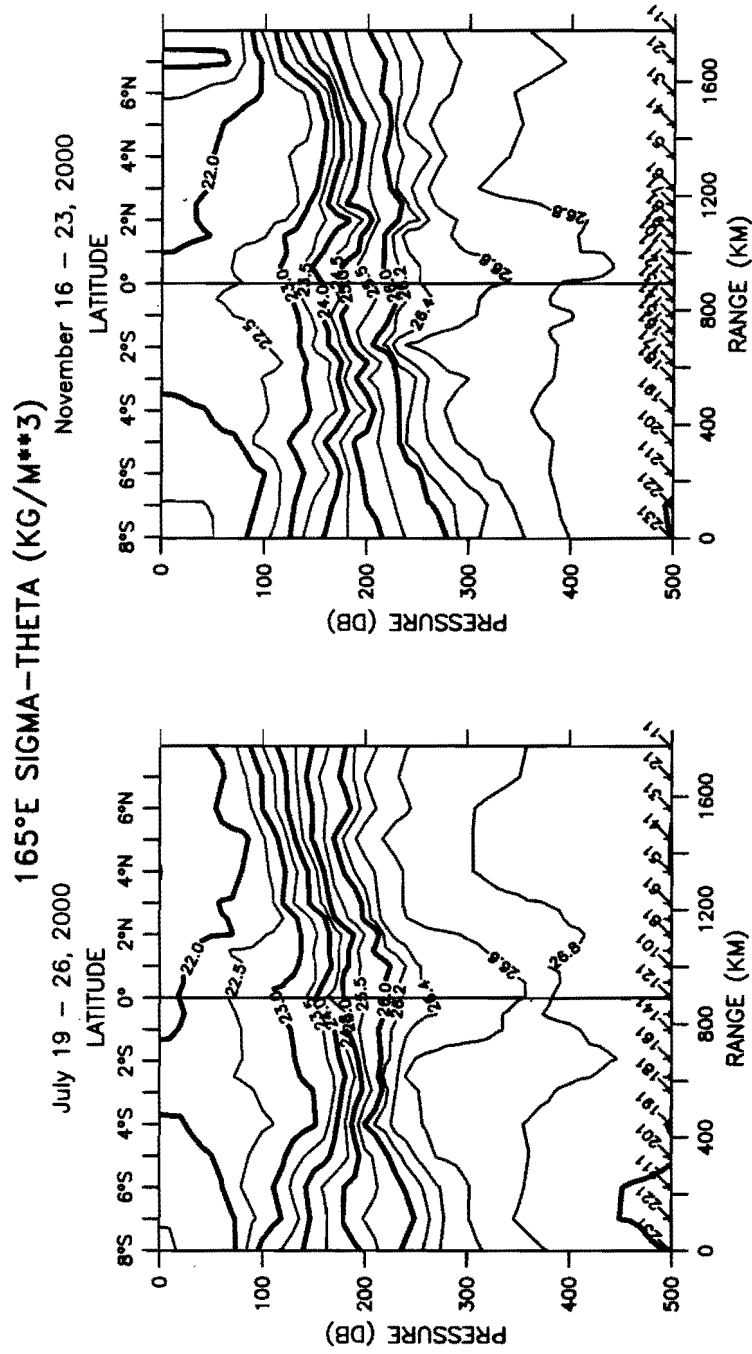


Figure 53: GP4-00-KA summer and GP8-00-KA fall potential density (kg/m^3) sections along 165°E . Contour intervals are 0.5 less than 26.0 and 0.2 greater than 26.0.

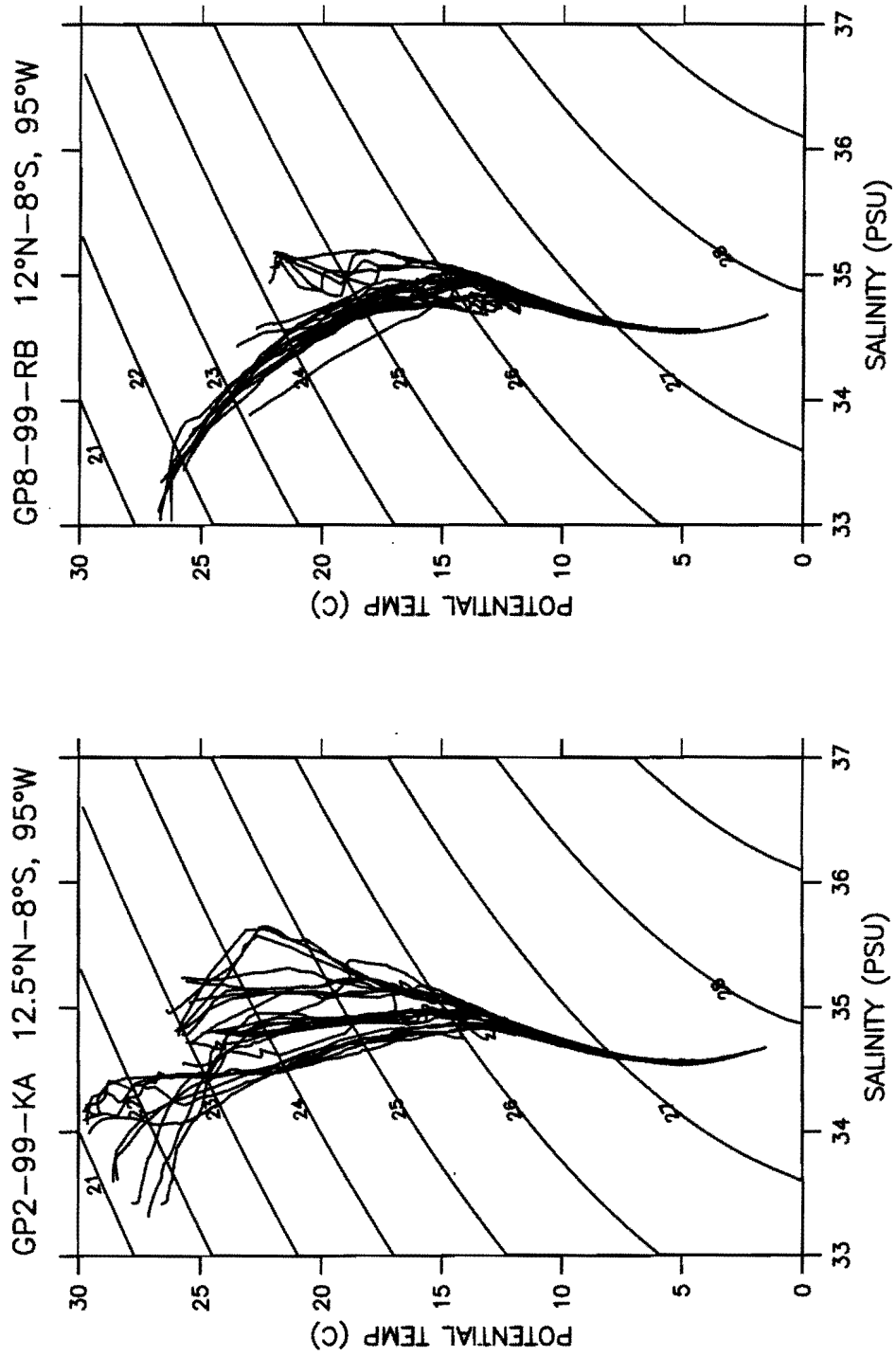


Figure 54: GP2-99-KA spring (May 19-28, 1999) and GP8-99-RB fall (November 23-December 2, 1999) composite TS diagrams along 95°W.

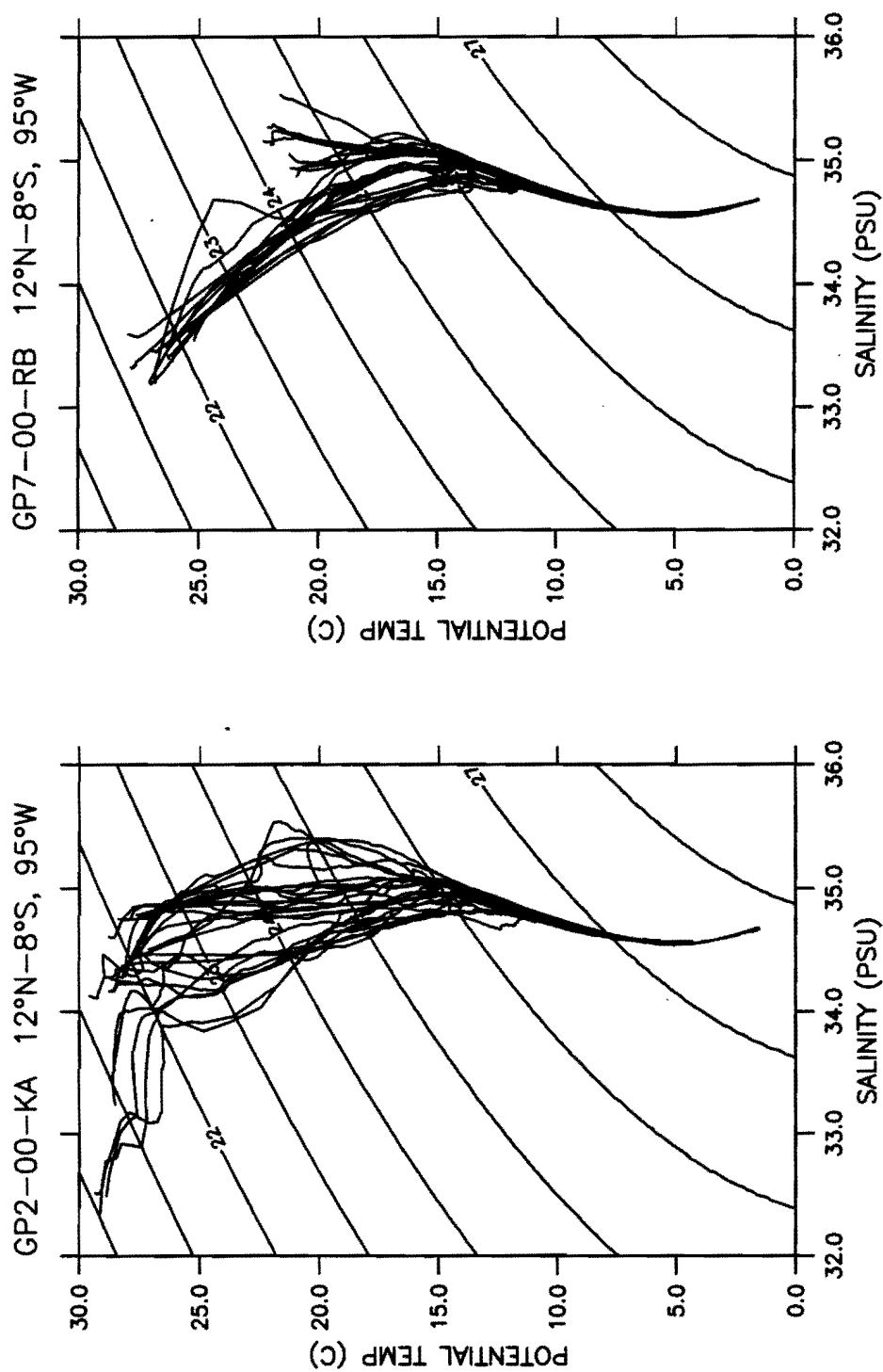


Figure 55: GP2-00-KA spring (April 21-30, 2000) and GP7-00-RB fall (November 3-12, 2000) composite TS diagrams along 95°W.

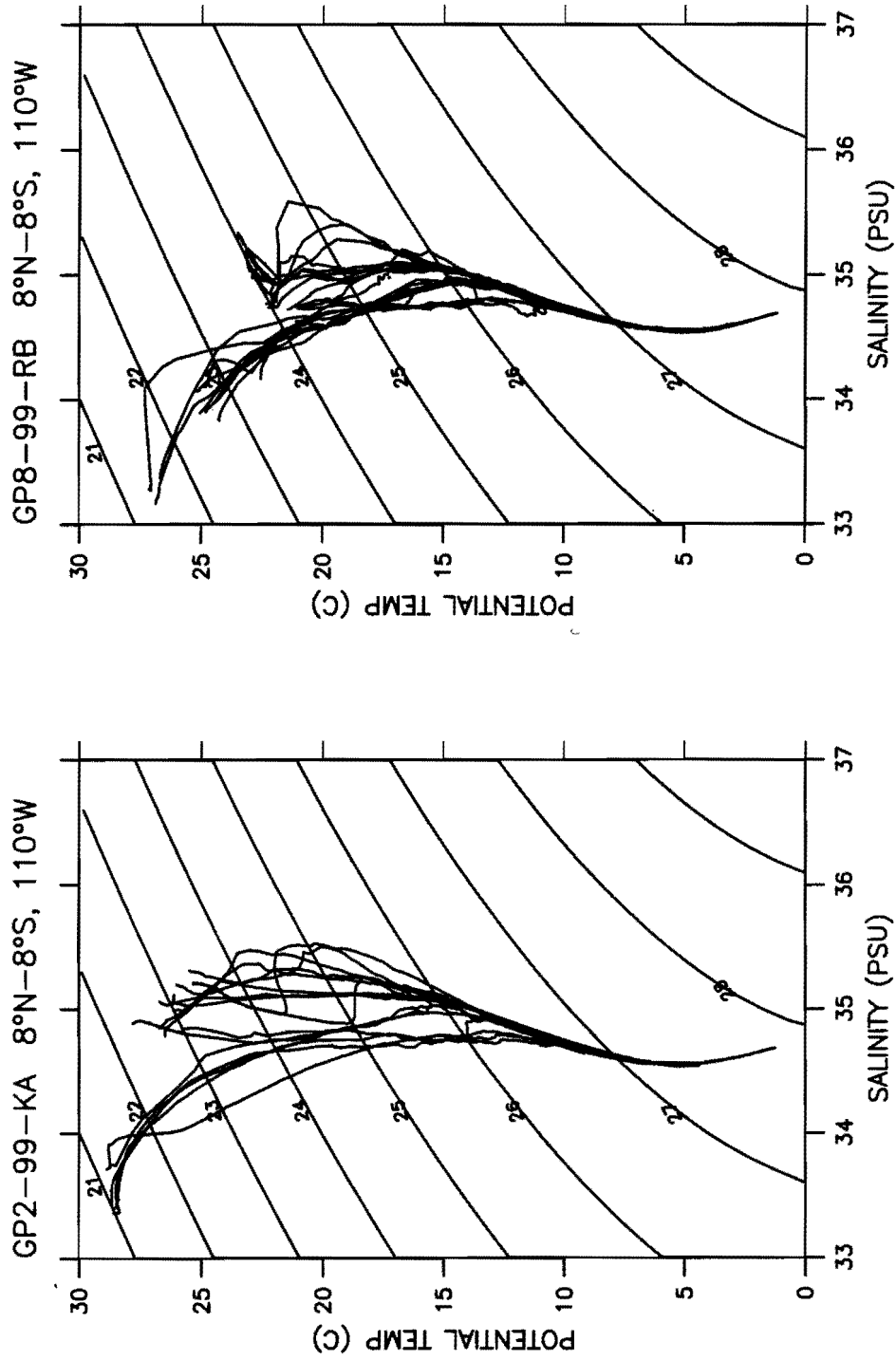


Figure 56: GP2-99-KA spring (May 7-14, 1999) and GP8-99-RB fall (November 11-19, 1999) composite TS diagrams along 110°W.

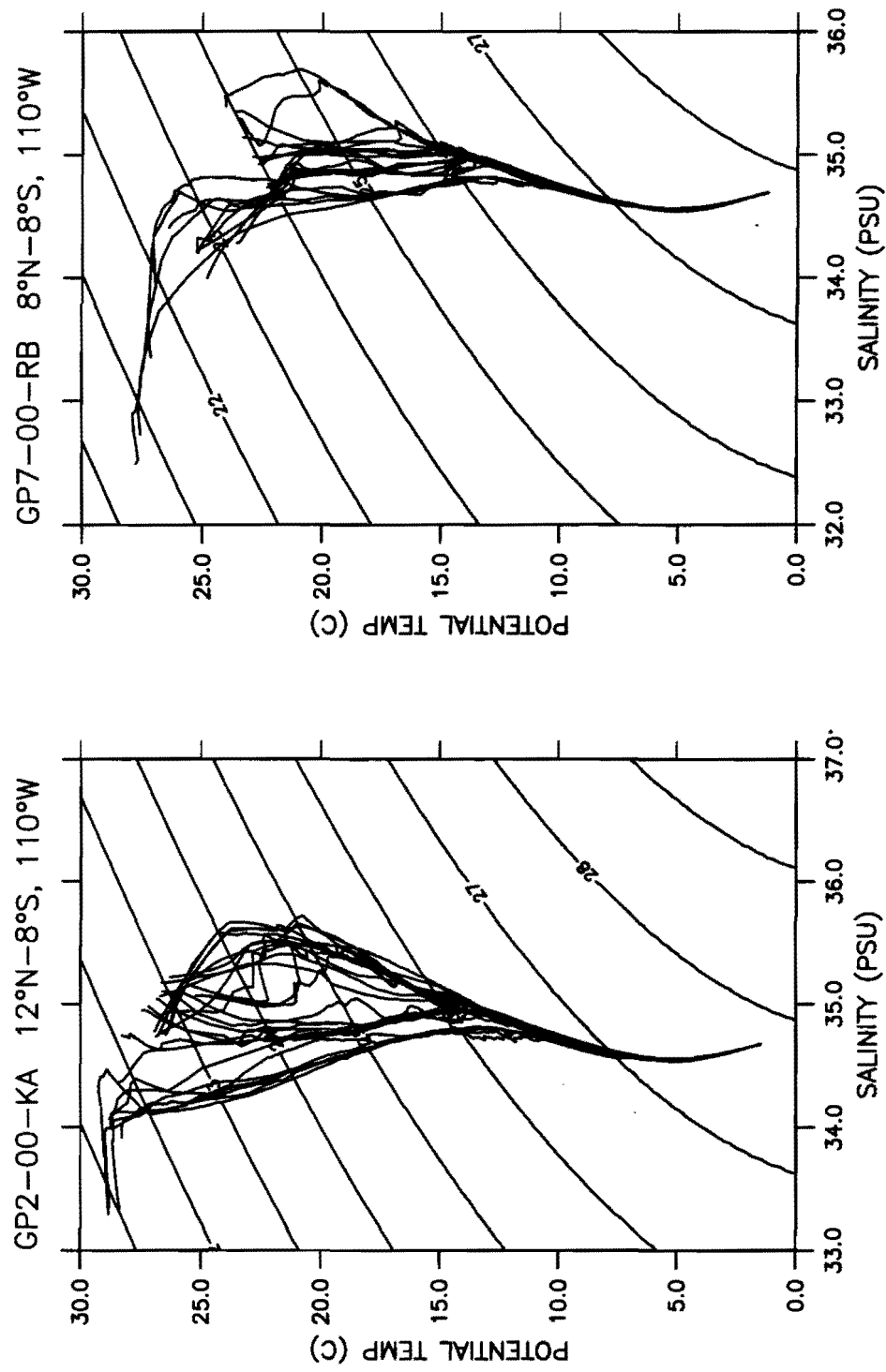


Figure 57: GP2-00-KA spring (May 4-13, 2000) and GP7-00-RB fall (October 22-30, 2000) composite TS diagrams along 110°W.

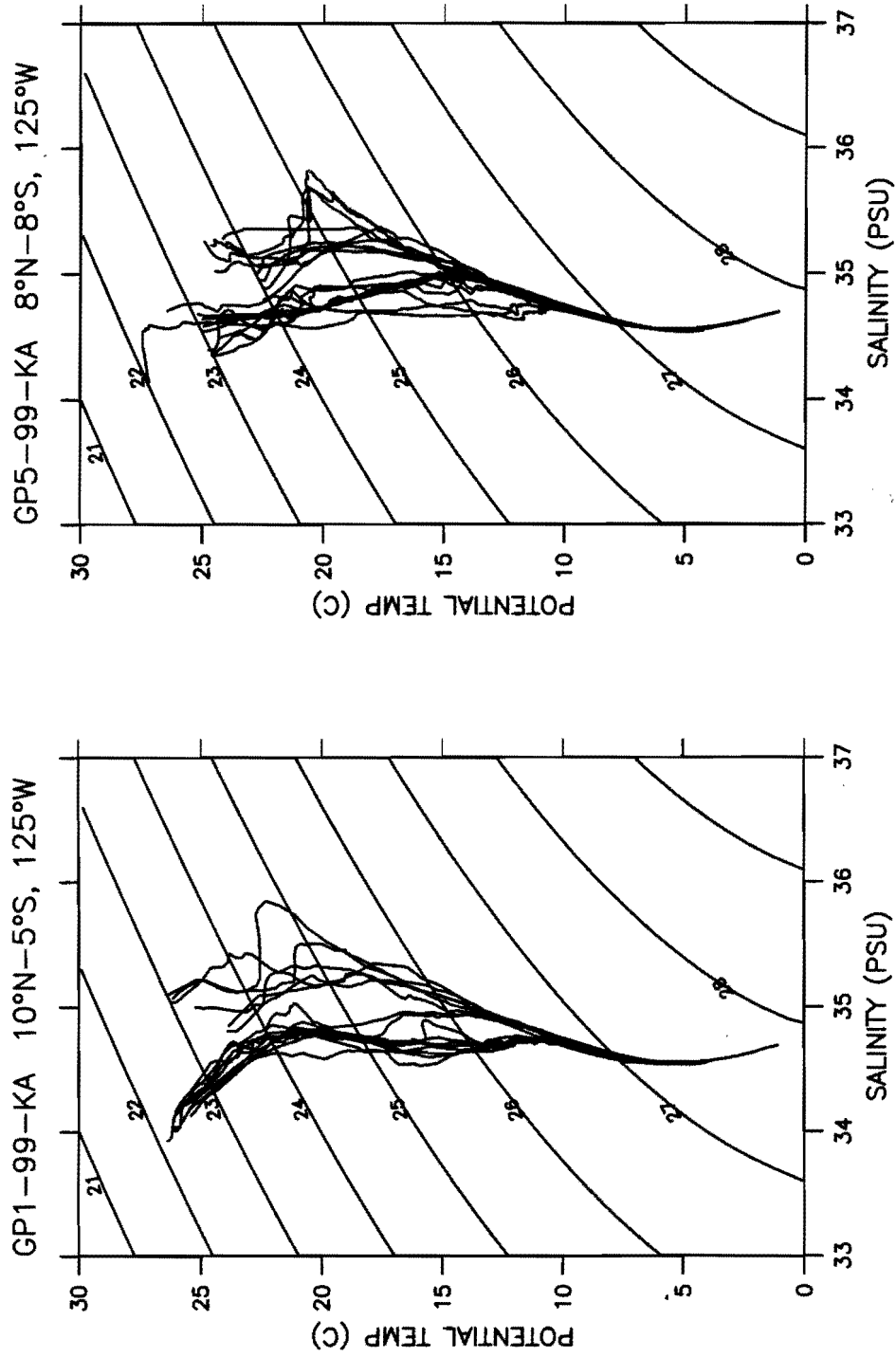


Figure 58: GP1-99-KA winter (February 11-17, 1999) and GP5-99-KA fall (September 28-October 5, 1999) composite TS diagrams along 125°W.

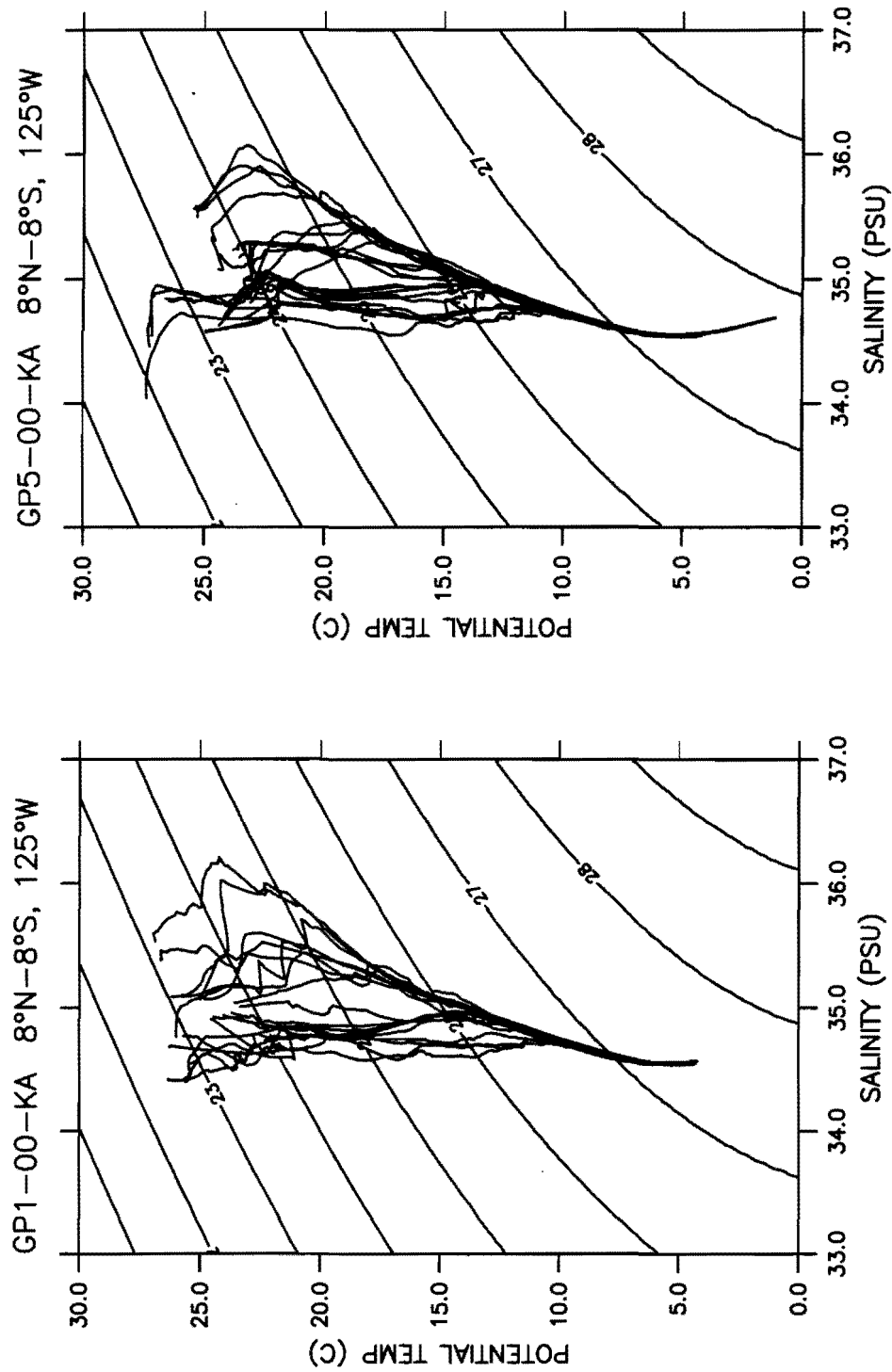


Figure 59: GP1-00-KA winter (February 18-24, 2000) and GP5-00-KA fall (September 8-17, 2000) composite TS diagrams along 125°W.

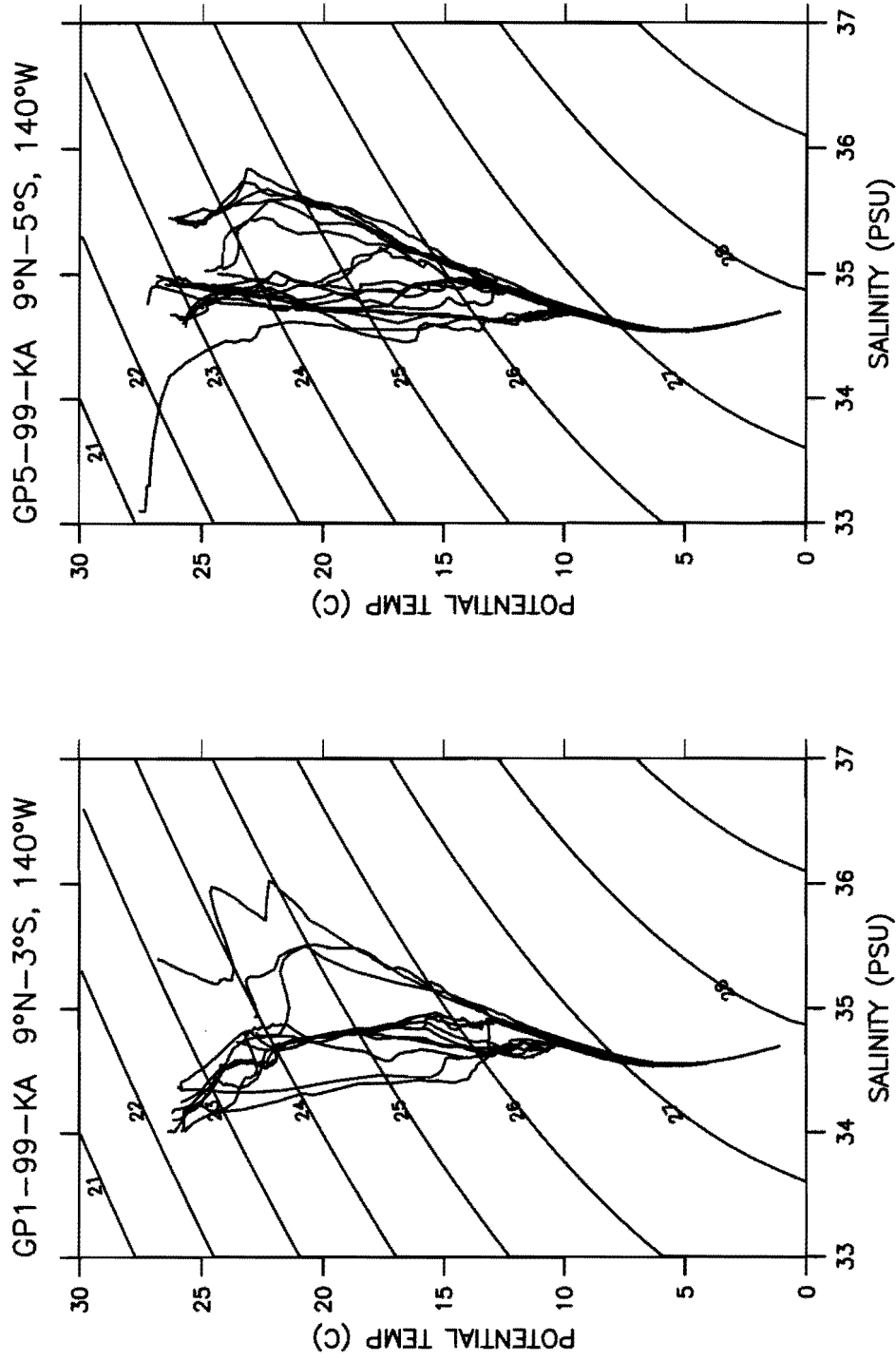


Figure 60: GP1-99-KA winter (January 30-February 6, 1999) and GP5-99-KA fall (September 16-23, 1999) composite TS diagrams along 140°W.

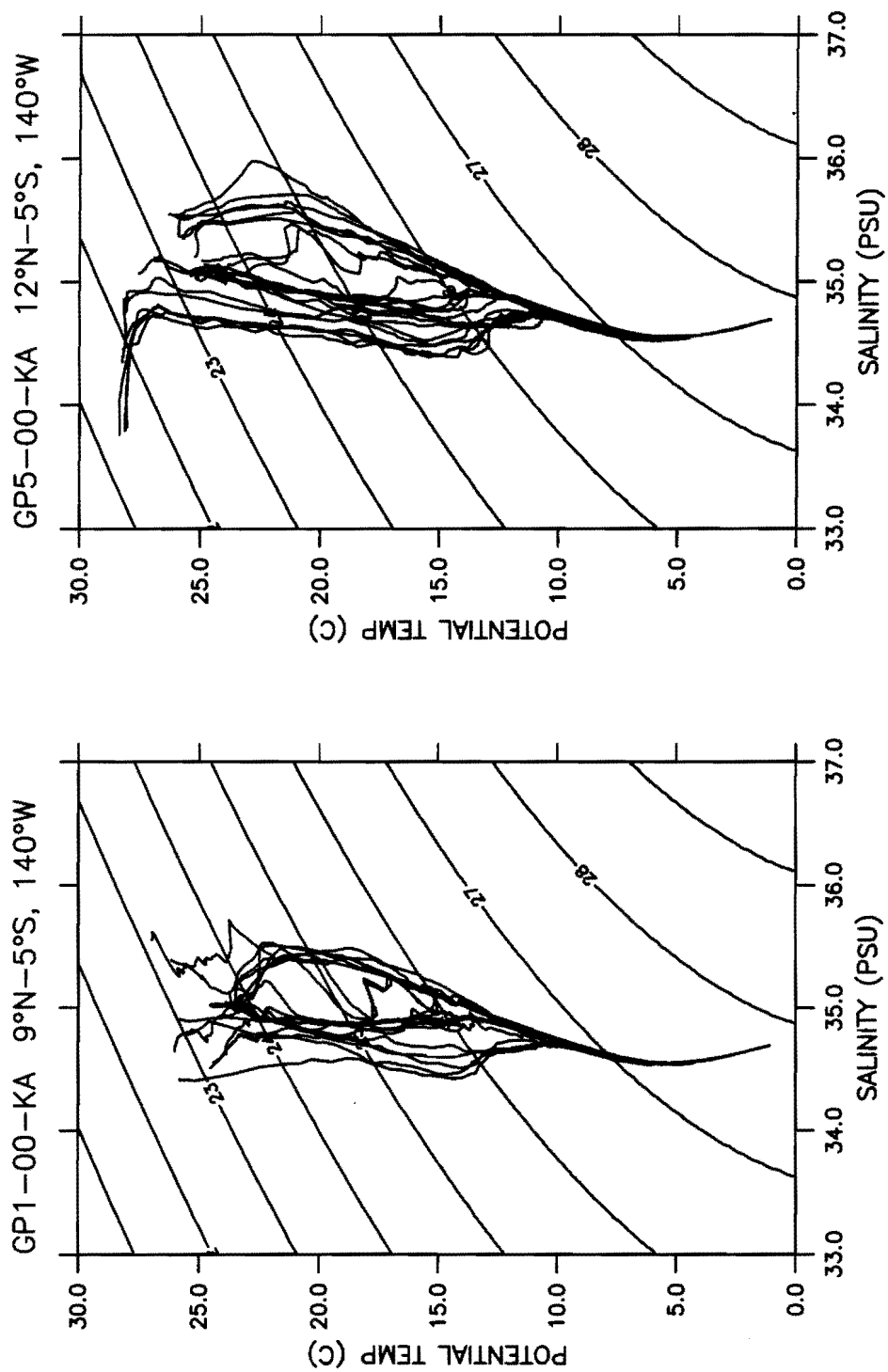


Figure 61: GP1-00-KA winter (February 8-14, 2000) and GP5-00-KA fall (September 20-28, 2000) composite TS diagrams along 140°W.

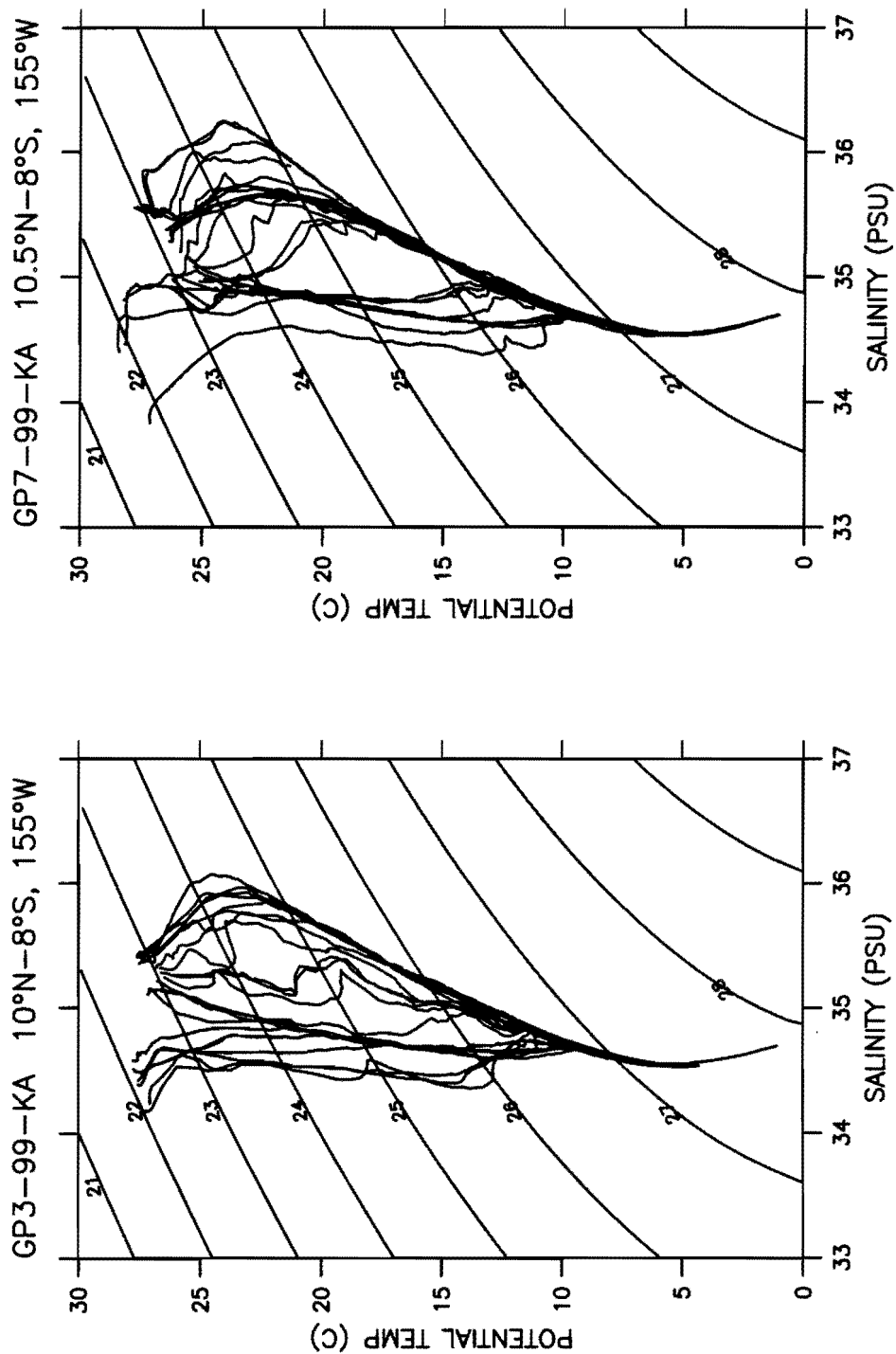


Figure 62: GP3-99-KA summer (July 3-12, 1999) and GP7-99-KA fall (October 23-31, 1999) composite TS diagrams along 155°W.

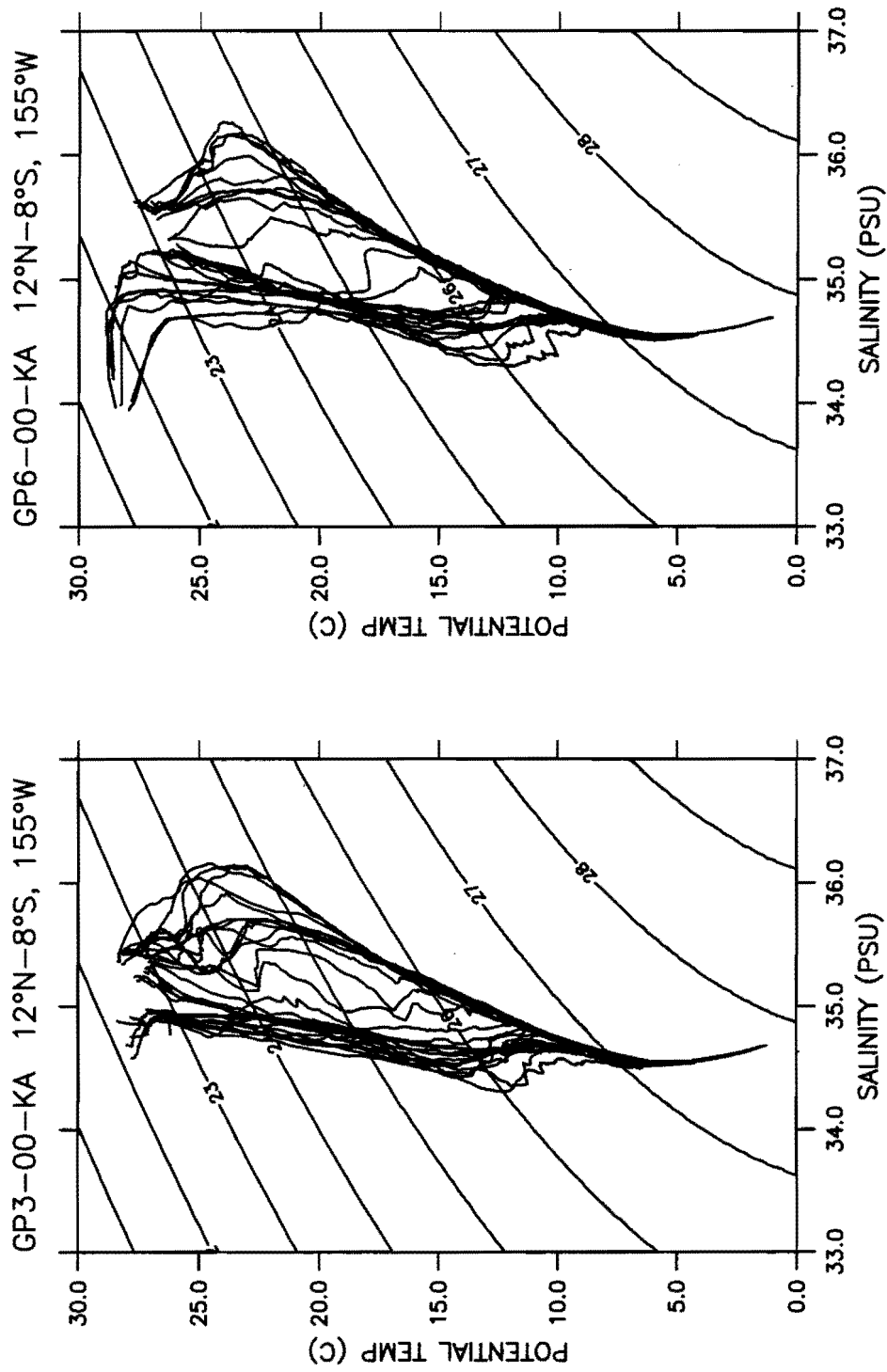


Figure 63: GP3-00-KA summer (June 17-25, 2000) and GP6-00-KA fall (October 17-25, 2000) composite TS diagrams along 155°W.

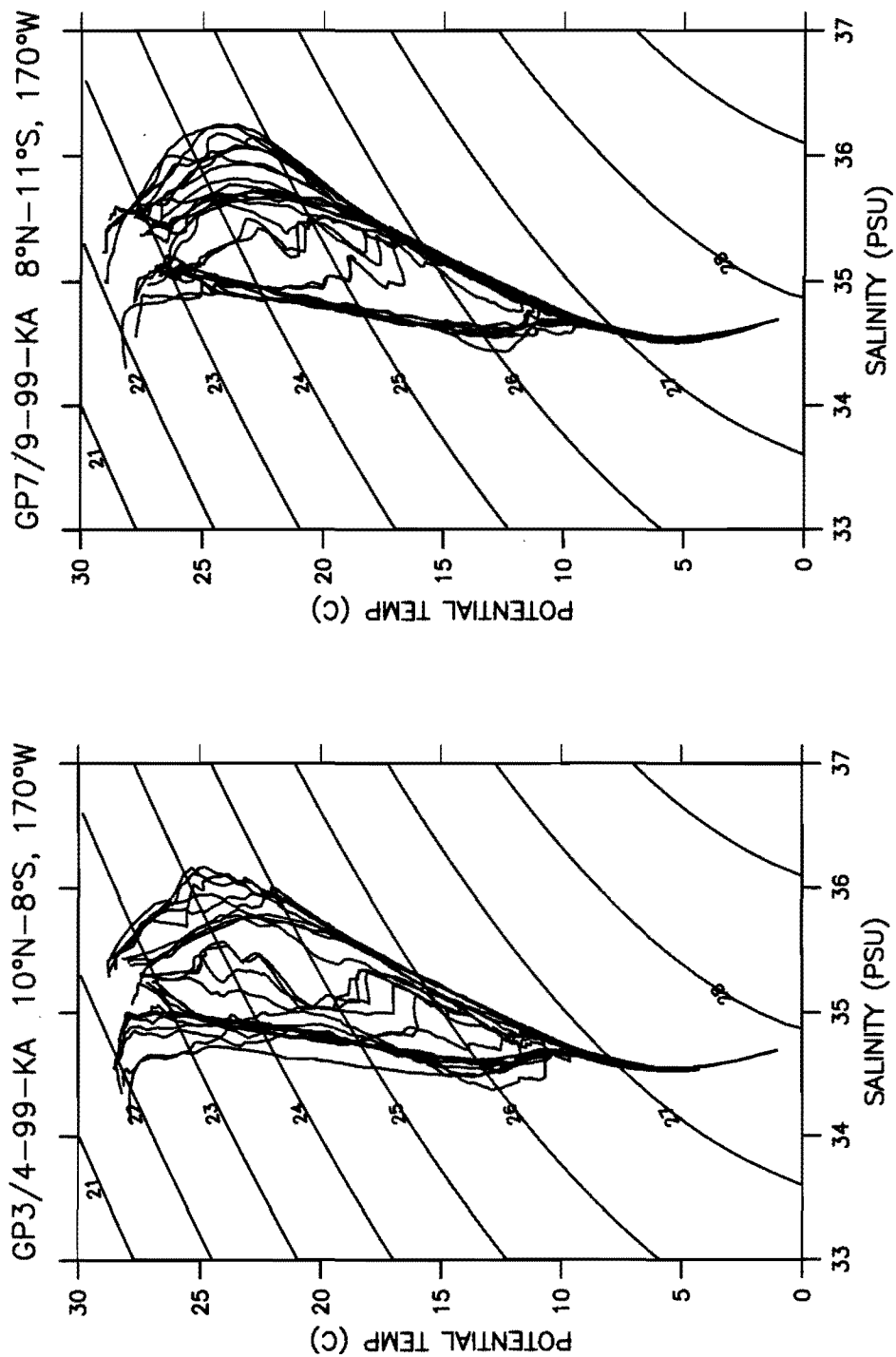


Figure 64: GP3-99-KA summer (July 15–August 28, 1999) and GP7/9-99-KA fall (November 5–December 8, 1999) composite TS diagrams along 170°W.

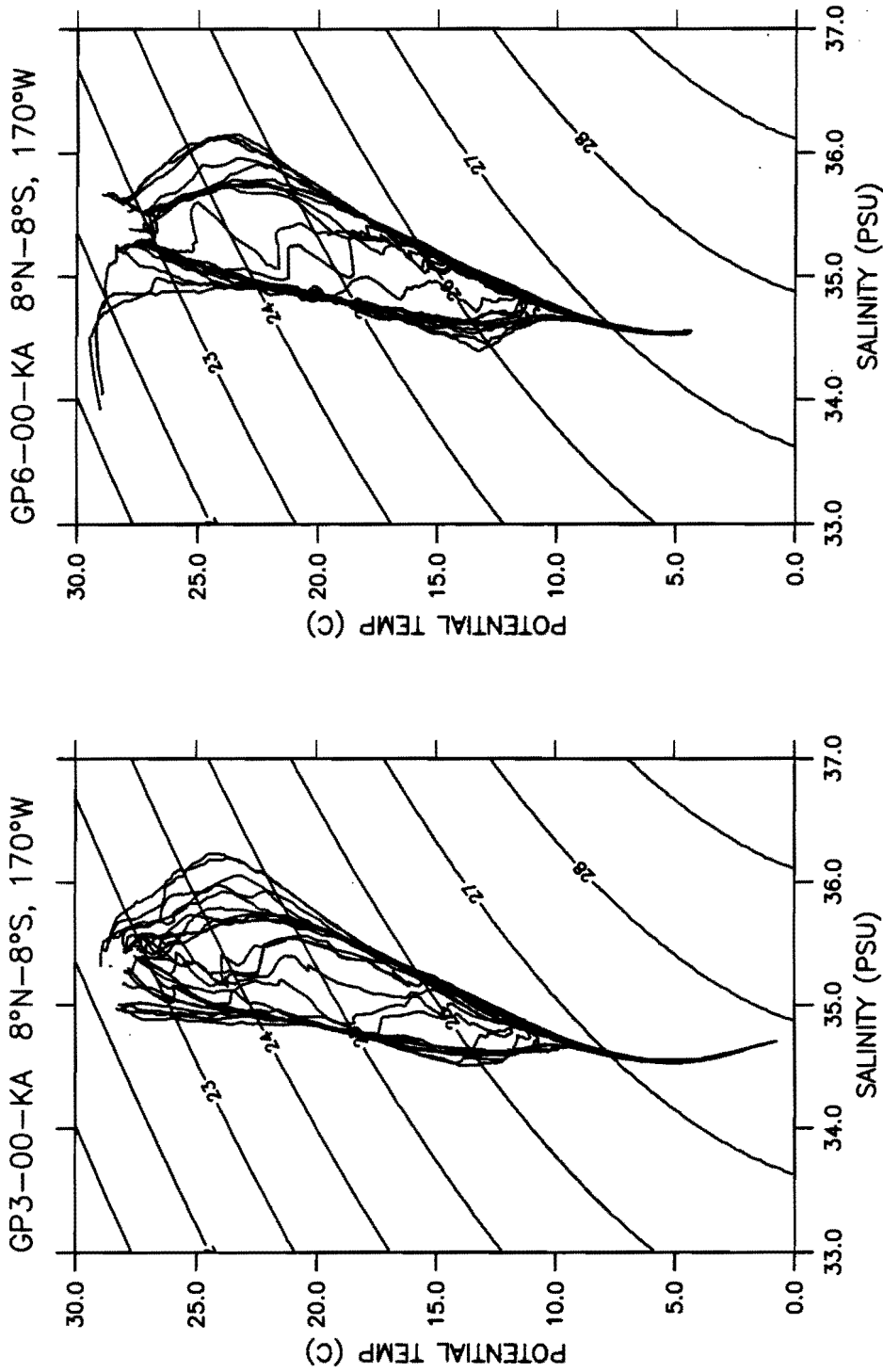


Figure 65: GP3-00-KA summer (June 29-July 7, 2000) and GP6-00-KA fall (October 29-November 4, 2000) composite TS diagrams along 170°W.

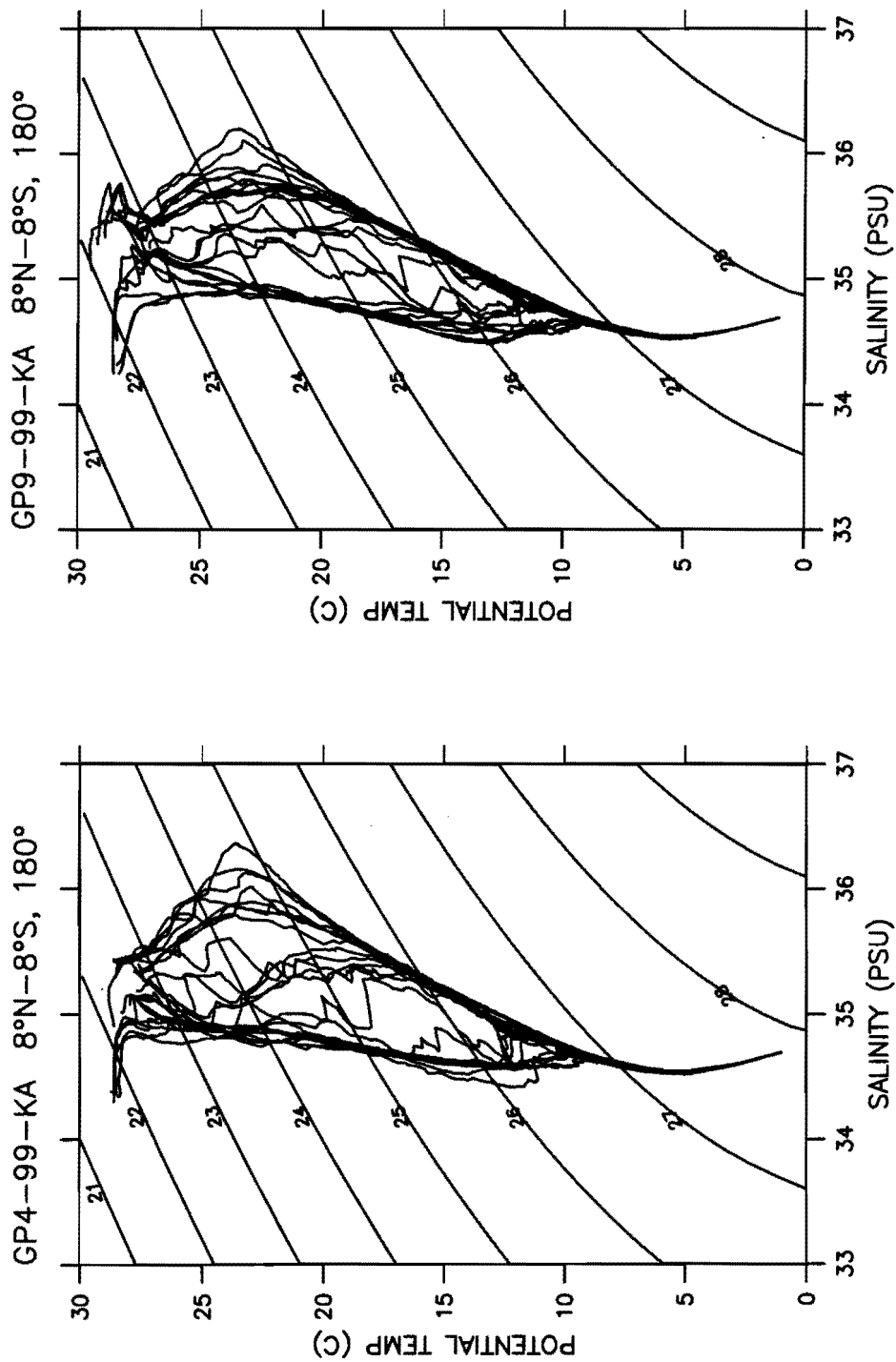


Figure 66: GP4-99-KA summer (August 17-24, 1999) and GP9-99-KA fall (November 24-30, 1999) composite TS diagrams along 180°.

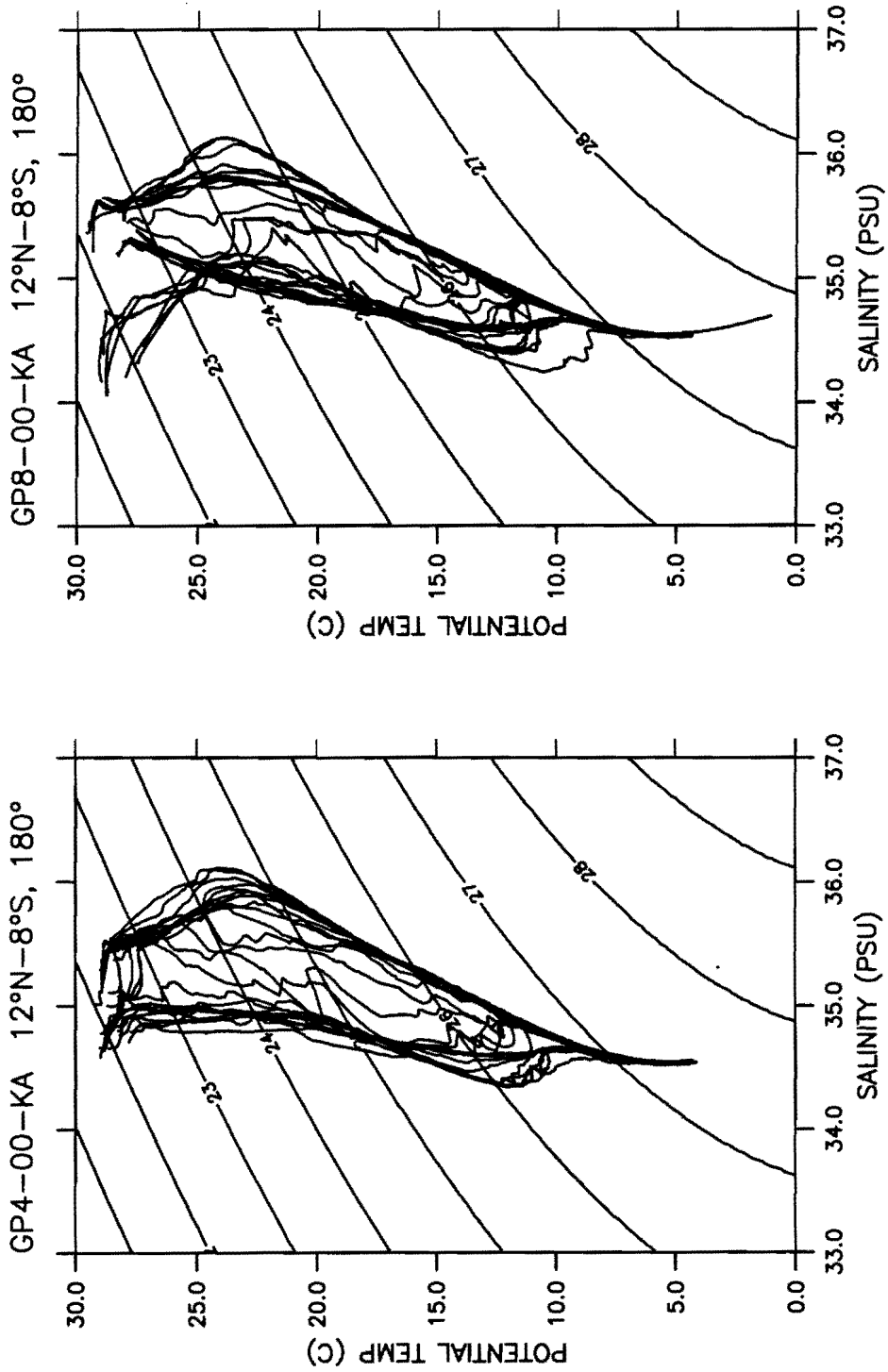


Figure 67: GP4-00-KA summer (July 30–August 7, 2000) and GP8-00-KA fall (November 27–December 4, 2000) composite TS diagrams along 180°.

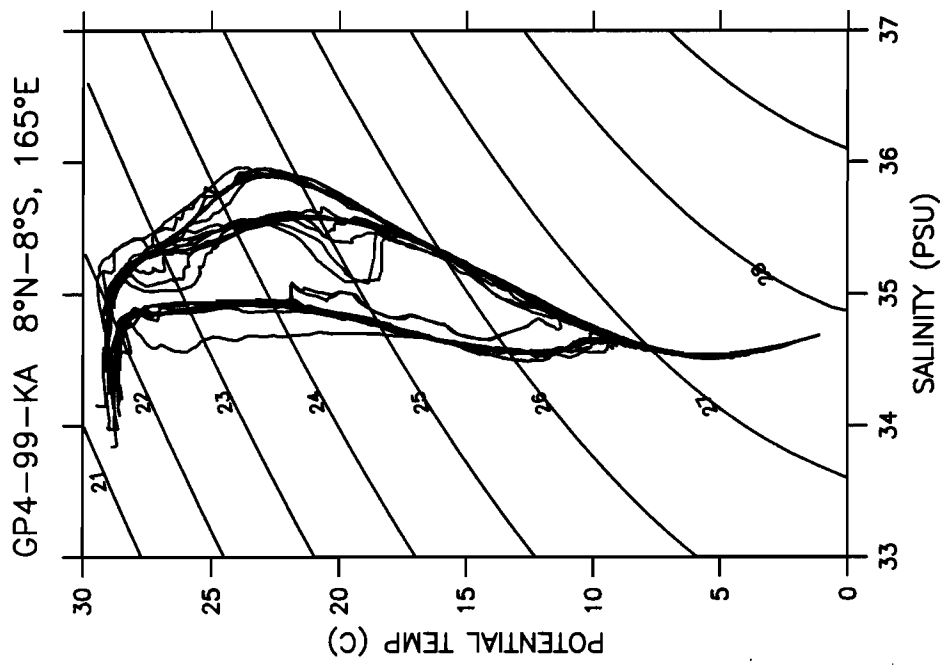


Figure 68: GP4-99-KA summer (August 5-14, 1999) composite TS diagram along 165°E.

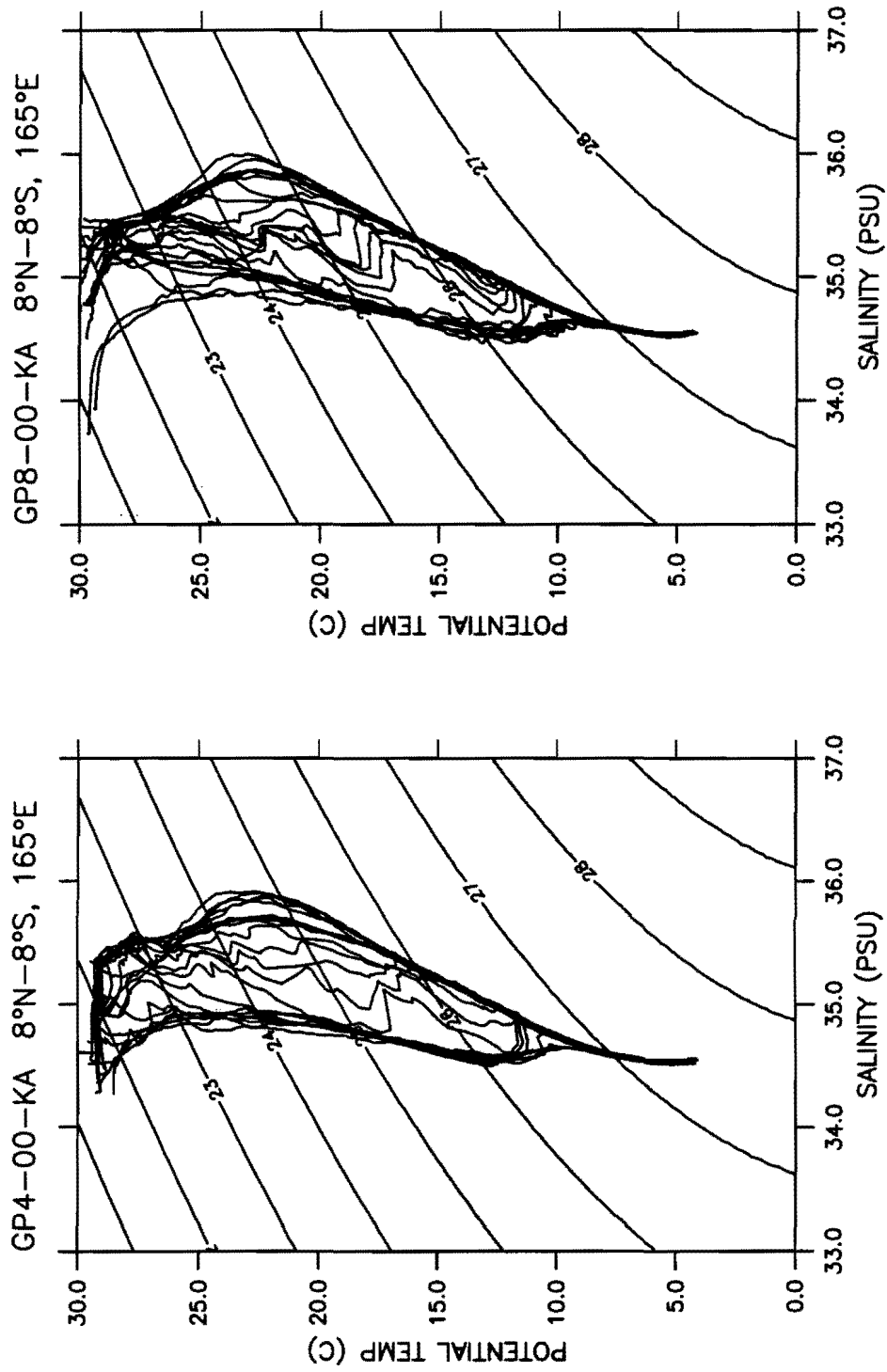


Figure 69: GP4-00-KA summer (July 19-26, 2000) and GP8-00-KA fall (November 16-23, 2000) composite TS diagrams along 165°E.

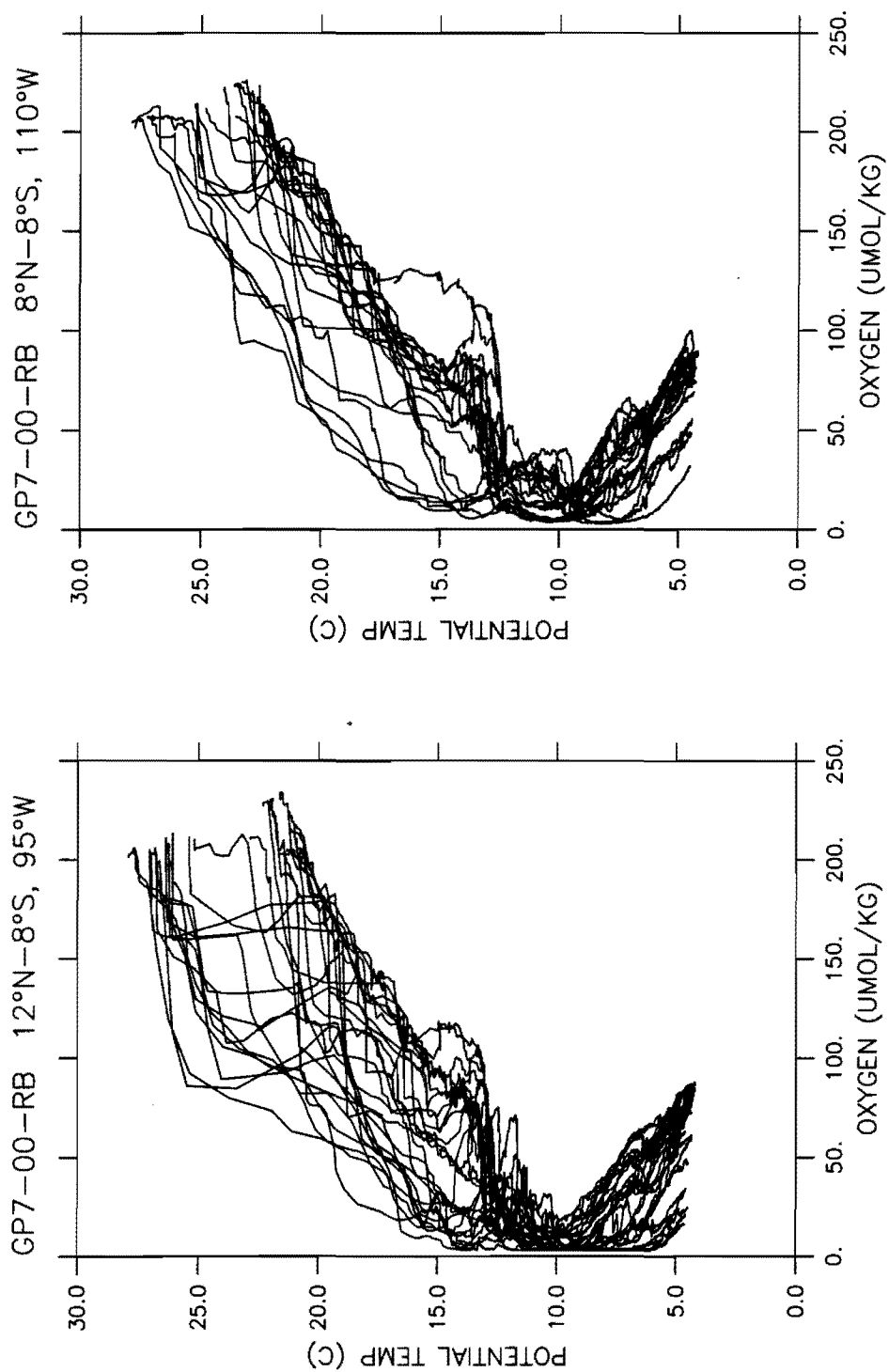


Figure 70: GP7-00-RB fall (October 22-November 3, 2000) composite TO diagrams along 95°W and 110°W.

Table 4: 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 5: 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 6: 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 7: 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

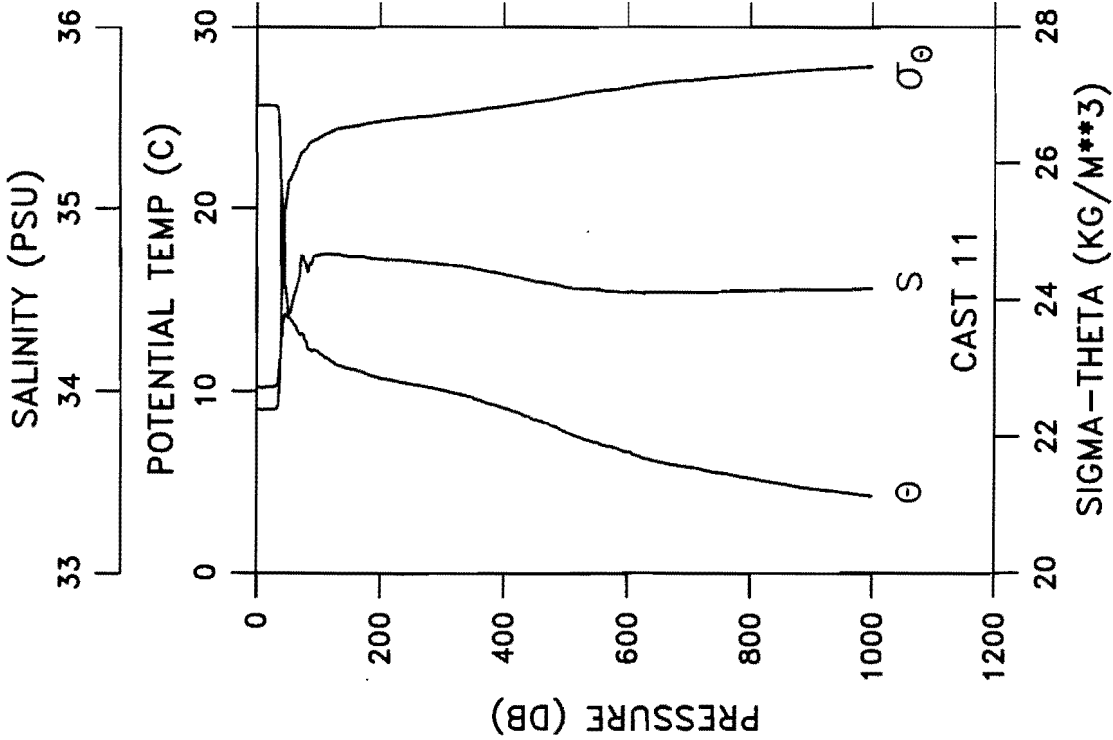
Table 8: Cloud amount.

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

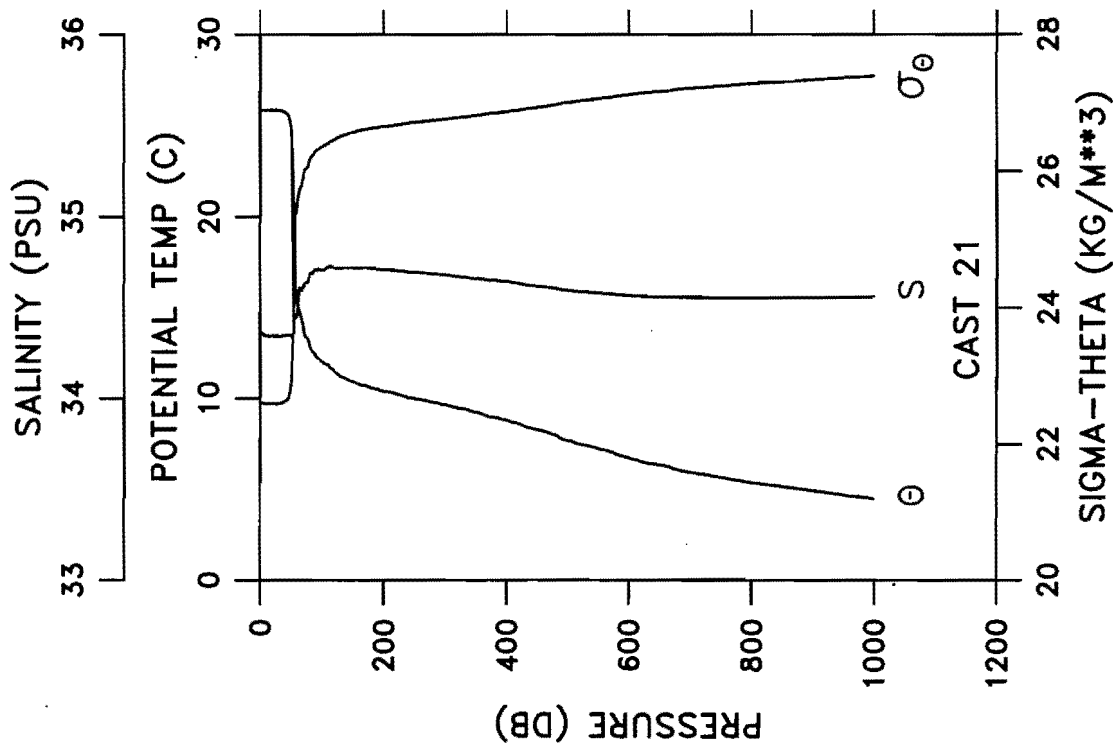
GP1-99-KA
January 30–February 17, 1999
CTD and Hydrographic Data Summary

CAST GP1-99-KA-0011 DATE 30 JAN 99 TIME 0520 GMT
 LAT 08 58.5N LONG 140 16.2W WEATHER 5 SEA STATE 5
 BAROMETER 09 WIND DIR 057 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.0 WET 23.3 DEPTH 4882 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.665	34.024	22.403	0.000
10	25.660	34.019	22.401	0.054
20	25.663	34.025	22.404	0.109
30	25.660	34.027	22.410	0.163
40	20.853	34.318	24.016	0.214
50	14.561	34.403	25.607	0.243
60	13.675	34.518	25.883	0.265
70	13.097	34.651	26.103	0.286
80	12.752	34.696	26.207	0.304
90	12.203	34.707	26.323	0.322
100	12.165	34.745	26.360	0.339
110	11.877	34.753	26.421	0.355
120	11.676	34.753	26.459	0.371
130	11.445	34.750	26.489	0.387
140	11.338	34.743	26.515	0.403
150	11.234	34.740	26.531	0.418
160	11.158	34.738	26.543	0.433
170	11.060	34.736	26.560	0.448
180	10.914	34.731	26.582	0.463
190	10.813	34.727	26.597	0.478
200	10.704	34.721	26.612	0.493
250	10.384	34.711	26.661	0.565
300	10.055	34.694	26.704	0.636
350	9.630	34.671	26.758	0.771
400	9.058	34.637	26.825	0.835
450	8.421	34.600	26.896	0.895
500	7.770	34.570	26.970	0.951
550	7.167	34.556	27.046	1.005
600	6.654	34.540	27.104	1.055
650	6.116	34.537	27.172	1.103
700	5.815	34.537	27.210	1.150
750	5.494	34.541	27.253	1.194
800	5.200	34.544	27.291	1.278
900	4.627	34.553	27.363	1.356
1000	4.248	34.562	27.412	1.363
1008	4.229	34.561	27.413	

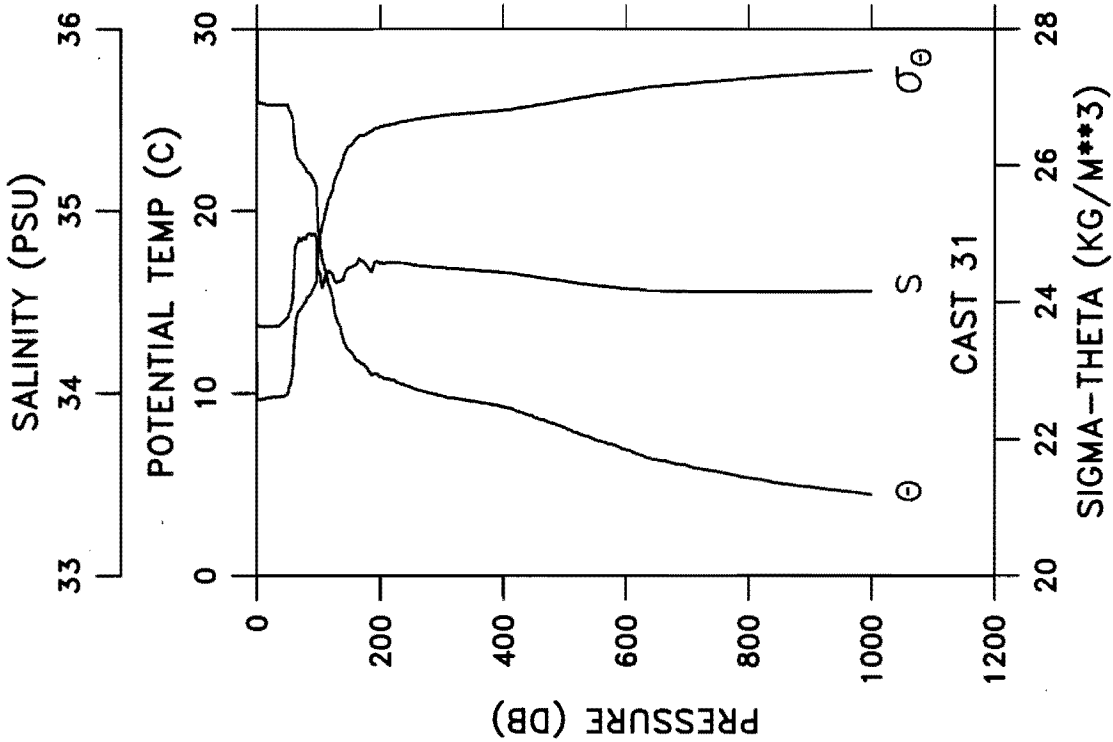


CAST GP1-99-KA-0021 DATE 30 JAN 99 TIME 1327 GMT
 LAT 08 00.3N LONG 140 09.7W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 093 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 24.8 WET 23.8 DEPTH 5178 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.838	34.360	22.603	0.000
10	25.834	34.345	22.592	0.052
20	25.843	34.344	22.589	0.105
30	25.829	34.344	22.594	0.158
40	25.724	34.347	22.628	0.210
50	24.953	34.347	22.864	0.262
60	15.267	34.471	25.506	0.298
70	13.919	34.609	25.902	0.321
80	12.927	34.680	26.160	0.340
90	12.337	34.711	26.301	0.358
100	12.021	34.704	26.356	0.375
110	11.846	34.722	26.403	0.392
120	11.511	34.719	26.464	0.408
130	11.216	34.718	26.517	0.424
140	11.077	34.720	26.544	0.439
150	10.930	34.718	26.569	0.454
160	10.801	34.717	26.592	0.469
170	10.711	34.720	26.610	0.484
180	10.585	34.716	26.629	0.498
190	10.524	34.712	26.637	0.513
200	10.412	34.707	26.652	0.527
250	10.007	34.695	26.713	0.597
300	9.654	34.681	26.762	0.665
350	9.247	34.660	26.813	0.731
400	8.820	34.644	26.868	0.795
450	8.286	34.618	26.931	0.856
500	7.692	34.595	27.001	0.915
550	7.241	34.582	27.056	0.970
600	6.730	34.568	27.115	1.024
650	6.343	34.561	27.162	1.074
700	5.912	34.555	27.213	1.122
750	5.638	34.554	27.245	1.169
800	5.349	34.554	27.281	1.214
800	4.919	34.556	27.333	1.301
1000	4.457	34.563	27.390	1.382
1003	4.450	34.563	27.390	1.385

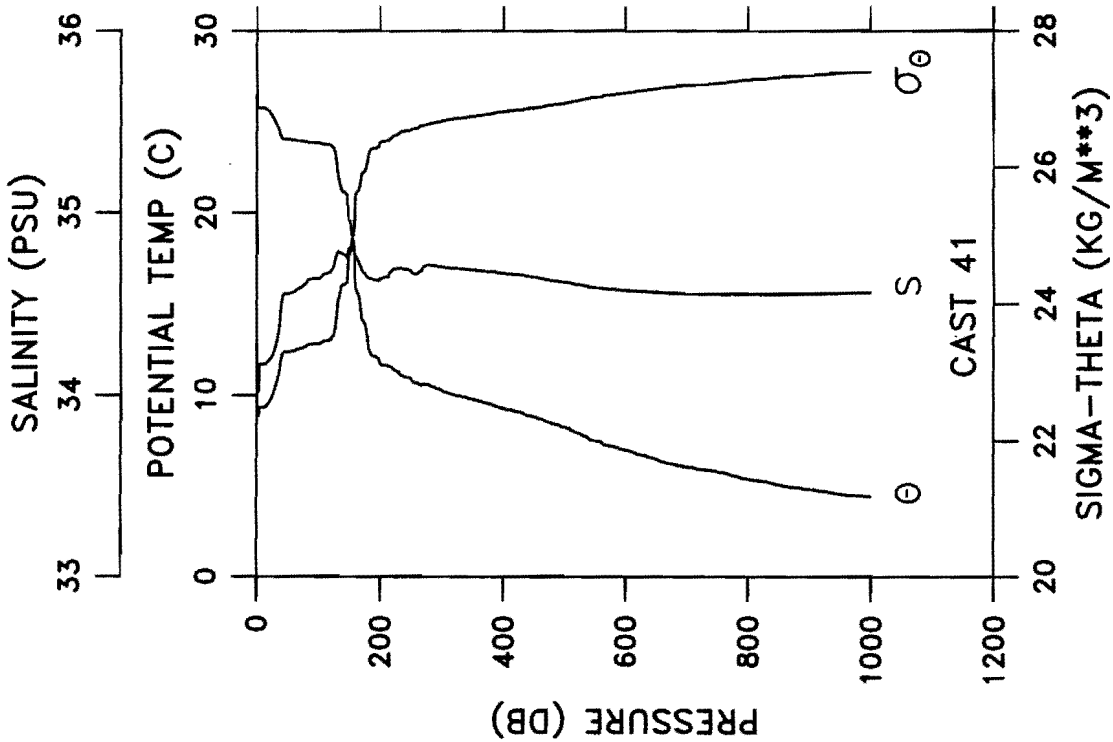
CAST GP1-99-KA-0031 DATE 30 JAN 99 TIME 2226 GMT
 LAT 07 00.9N LONG 140 03.4W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 090 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.6 WET 24.4 DEPTH 4973 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.955	34.373	22.576	0.000
10	25.896	34.366	22.589	0.053
20	25.832	34.366	22.609	0.105
30	25.824	34.370	22.614	0.157
40	25.834	34.384	22.622	0.210
50	25.783	34.417	22.662	0.262
60	24.242	34.643	23.301	0.312
70	22.769	34.846	23.884	0.354
80	22.232	34.850	24.040	0.394
90	21.837	34.867	24.164	0.432
100	18.906	34.670	24.794	0.468
110	16.901	34.632	25.256	0.498
120	15.623	34.663	25.574	0.523
130	14.000	34.610	25.886	0.546
140	12.979	34.620	26.103	0.567
150	12.341	34.689	26.283	0.585
160	11.850	34.707	26.390	0.602
170	11.631	34.726	26.447	0.619
180	11.300	34.692	26.481	0.635
190	11.066	34.715	26.542	0.650
200	10.888	34.712	26.572	0.666
250	10.346	34.707	26.664	0.739
300	9.879	34.691	26.731	0.809
350	9.585	34.677	26.770	0.876
400	9.261	34.663	26.813	0.943
450	8.707	34.639	26.882	1.007
500	8.138	34.615	26.951	1.068
550	7.469	34.591	27.031	1.126
600	6.910	34.574	27.096	1.180
650	6.377	34.563	27.159	1.231
700	6.053	34.559	27.198	1.280
750	5.702	34.557	27.240	1.327
800	5.382	34.555	27.278	1.372
900	4.881	34.557	27.338	1.458
1000	4.445	34.563	27.391	1.539
1002	4.441	34.563	27.392	1.541

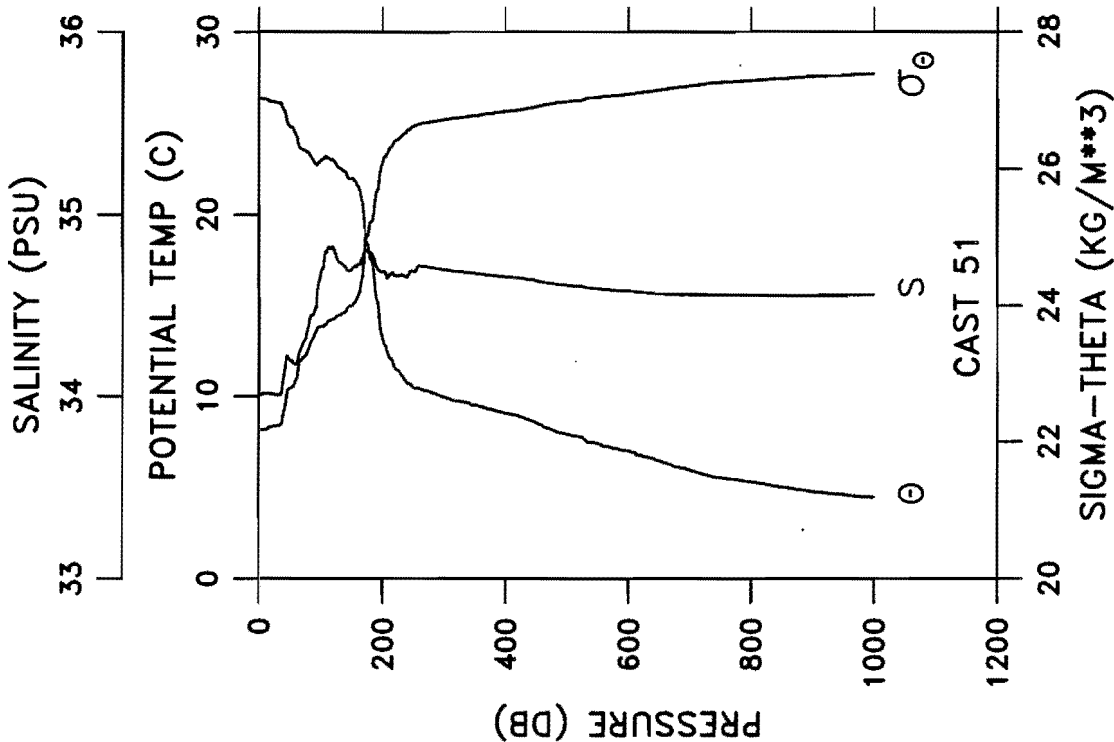
CAST GP1-99-KA-0041 DATE 31 JAN 99 TIME 0838 GMT
 LAT 06 00.6N LONG 139 58.3W WEATHER 1 SEA STATE 5
 BAROMETER 11 WIND DIR 037 T SPD 10 KT VISIBILITY 0
 CLOUD AMOUNT 9 DRY 25.5 WET 23.3 DEPTH 4834 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.814	34.017	22.352	0.000
10	25.737	34.172	22.492	0.054
20	25.541	34.191	22.567	0.107
30	24.950	34.267	22.804	0.159
40	24.145	34.499	23.221	0.208
50	24.011	34.557	23.305	0.254
60	23.985	34.565	23.319	0.300
70	23.923	34.587	23.353	0.345
80	23.879	34.614	23.386	0.390
90	23.830	34.637	23.418	0.435
100	23.821	34.639	23.423	0.480
110	23.741	34.665	23.466	0.525
120	23.701	34.679	23.488	0.570
130	22.460	34.771	23.916	0.613
140	21.152	34.773	24.282	0.651
150	19.579	34.806	24.725	0.687
160	15.857	34.762	25.598	0.717
170	14.182	34.687	25.907	0.740
180	12.857	34.641	26.144	0.761
190	12.152	34.632	26.275	0.779
200	11.729	34.638	26.360	0.797
250	10.896	34.679	26.545	0.877
300	10.300	34.704	26.669	0.951
350	9.788	34.686	26.743	1.021
400	9.292	34.669	26.812	1.088
450	8.842	34.649	26.868	1.153
500	8.258	34.619	26.936	1.214
550	7.518	34.589	27.022	1.273
600	6.989	34.575	27.085	1.327
650	6.489	34.565	27.146	1.379
700	6.049	34.557	27.197	1.428
750	5.791	34.554	27.227	1.476
800	5.367	34.553	27.277	1.521
900	4.810	34.555	27.344	1.607
1000	4.407	34.564	27.397	1.687
1003	4.400	34.565	27.397	1.690

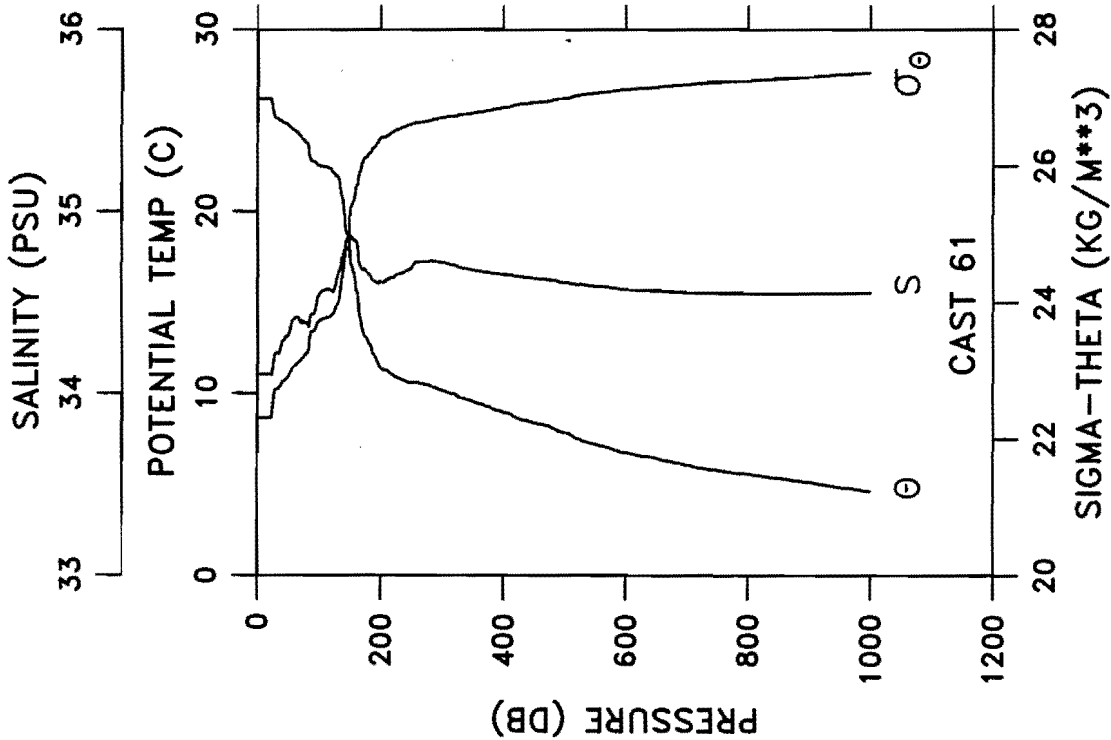


CAST GP1-99-KA-0051 DATE 01 FEB 99 TIME 0757 GMT
 LAT 04 56.5N LONG 139 53.1W WEATHER 1 SEA STATE 5
 BAROMETER 11 WIND DIR 056 T SPD 13 KT VISIBILITY 0
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 23.8 DEPTH 4496 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.360	34.012	22.178	0.000
10	26.345	34.018	22.187	0.056
20	26.207	34.015	22.228	0.113
30	26.144	34.010	22.244	0.169
40	25.759	34.108	22.437	0.224
50	24.824	34.201	22.793	0.276
60	24.344	34.179	22.920	0.327
70	23.581	34.281	23.222	0.374
80	23.381	34.381	23.356	0.421
90	22.848	34.467	23.574	0.465
100	22.969	34.670	23.693	0.508
110	23.099	34.789	23.747	0.550
120	23.000	34.821	23.799	0.592
130	22.568	34.737	23.860	0.633
140	22.343	34.713	23.905	0.674
150	21.966	34.698	23.999	0.713
160	21.565	34.726	24.132	0.753
170	19.938	34.787	24.617	0.789
180	17.583	34.792	25.216	0.819
190	15.436	34.719	25.659	0.846
200	13.292	34.682	26.088	0.868
250	10.499	34.688	26.623	0.951
300	9.972	34.697	26.721	1.022
350	9.532	34.676	26.778	1.090
400	9.056	34.658	26.841	1.155
450	8.542	34.637	26.906	1.218
500	7.918	34.612	26.981	1.277
550	7.385	34.592	27.044	1.334
600	7.003	34.580	27.088	1.388
650	6.447	34.564	27.151	1.440
700	5.953	34.557	27.209	1.489
750	5.531	34.554	27.259	1.535
800	5.299	34.554	27.287	1.579
900	4.777	34.555	27.348	1.664
1000	4.467	34.562	27.388	1.745
1003	4.462	34.562	27.389	1.747



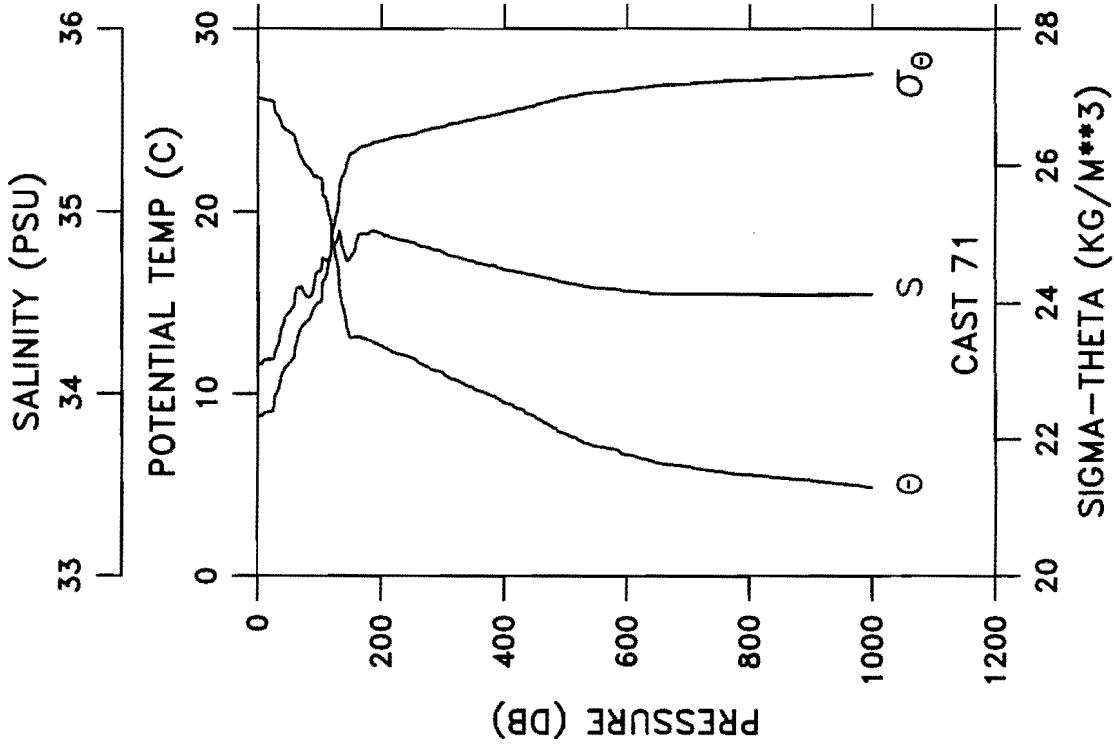
CAST GP1-99-KA-0061 DATE 01 FEB 99 TIME 1604 GMT
 LAT 04 00.3N LONG 140 06.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 056 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.0 WET 23.7 DEPTH 4418 M



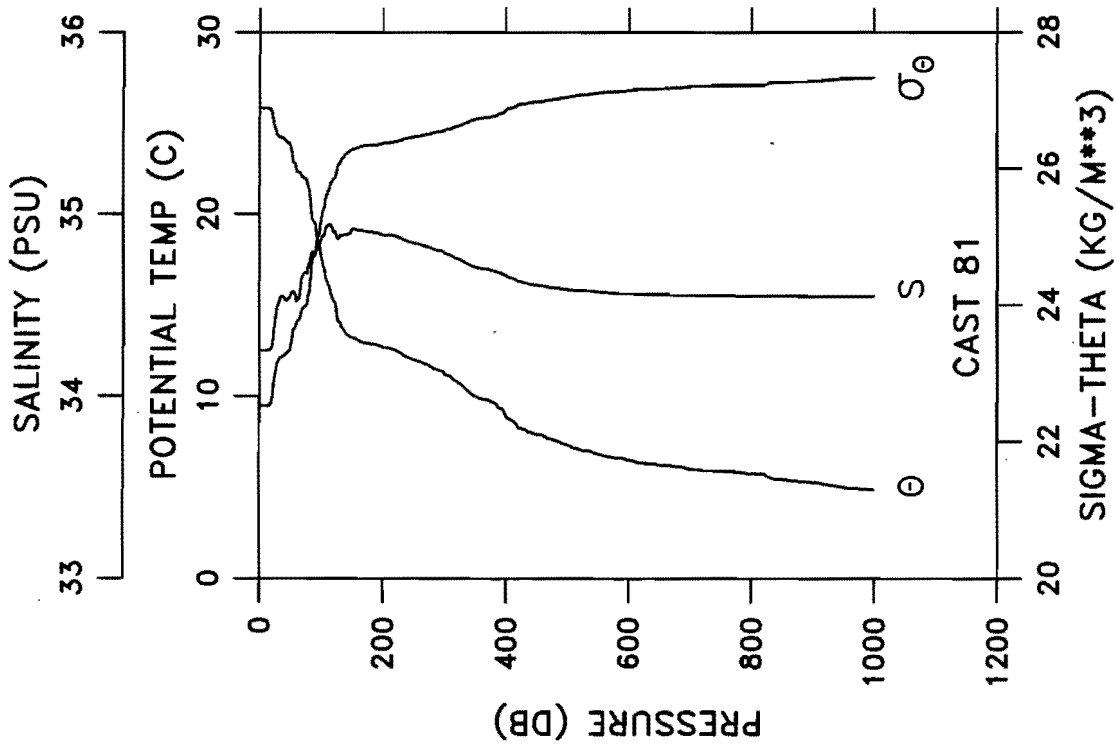
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.158	34.106	22.312	0.000
10	26.159	34.105	22.311	0.055
20	26.162	34.106	22.311	0.110
30	25.093	34.224	22.728	0.164
40	24.889	34.285	22.837	0.215
50	24.700	34.316	22.917	0.265
60	24.417	34.413	23.075	0.313
70	24.091	34.387	23.152	0.361
80	23.735	34.389	23.258	0.408
90	22.745	34.434	23.579	0.453
100	22.514	34.543	23.727	0.495
110	22.444	34.571	23.769	0.537
120	22.256	34.564	23.816	0.579
130	21.907	34.650	23.979	0.619
140	20.048	34.785	24.586	0.656
150	17.547	34.851	25.270	0.688
160	15.687	34.837	25.694	0.713
170	13.550	34.678	26.033	0.735
180	12.809	34.654	26.164	0.754
190	12.094	34.615	26.273	0.773
200	11.395	34.613	26.403	0.790
250	10.619	34.690	26.602	0.868
300	10.177	34.719	26.703	0.940
350	9.579	34.678	26.772	1.009
400	8.965	34.654	26.853	1.074
450	8.369	34.633	26.927	1.136
500	7.851	34.609	26.990	1.195
550	7.224	34.592	27.066	1.251
600	6.756	34.573	27.116	1.303
650	6.435	34.566	27.153	1.354
700	6.062	34.556	27.194	1.404
750	5.787	34.552	27.226	1.451
800	5.605	34.549	27.246	1.498
800	5.138	34.550	27.302	1.587
1000	4.636	34.556	27.365	1.672
1004	4.621	34.556	27.366	1.675

CAST GP1-99-KA-0071 DATE 01 FEB 99 TIME 2339 GMT
 LAT 03 00.4N LONG 140 15.1W WEATHER 5 SEA STATE 4
 BAROMETER 08 WIND DIR 065 T SPD 16 KT VISIBILITY 7
 CLOUD 7 AMOUNT 8 DRY 27.0 WET 24.8 DEPTH 4334 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.192	34.168	22.348	0.000
10	26.134	34.185	22.379	0.055
20	26.065	34.191	22.405	0.109
30	25.340	34.248	22.671	0.163
40	24.652	34.371	22.973	0.213
50	24.369	34.449	23.116	0.261
60	23.911	34.545	23.325	0.308
70	22.952	34.591	23.639	0.353
80	22.440	34.535	23.743	0.395
90	21.946	34.574	23.911	0.436
100	21.851	34.675	24.014	0.476
110	20.649	34.739	24.391	0.513
120	18.782	34.813	24.935	0.547
130	16.927	34.862	25.427	0.575
140	14.493	34.773	25.908	0.597
150	13.112	34.753	26.180	0.617
160	13.135	34.838	26.241	0.636
170	13.058	34.881	26.289	0.653
180	12.960	34.881	26.309	0.671
190	12.816	34.893	26.347	0.688
200	12.673	34.882	26.367	0.706
250	11.989	34.833	26.462	0.788
300	11.171	34.782	26.575	0.867
350	10.349	34.729	26.680	0.941
400	9.517	34.684	26.787	1.010
450	8.762	34.655	26.886	1.075
500	7.811	34.614	26.999	1.134
550	7.109	34.584	27.076	1.189
600	6.657	34.567	27.125	1.242
650	6.229	34.556	27.173	1.292
700	6.014	34.552	27.197	1.341
750	5.738	34.549	27.229	1.388
800	5.565	34.547	27.249	1.434
900	5.251	34.546	27.286	1.525
1000	4.842	34.551	27.338	1.612
1003	4.831	34.551	27.339	1.614



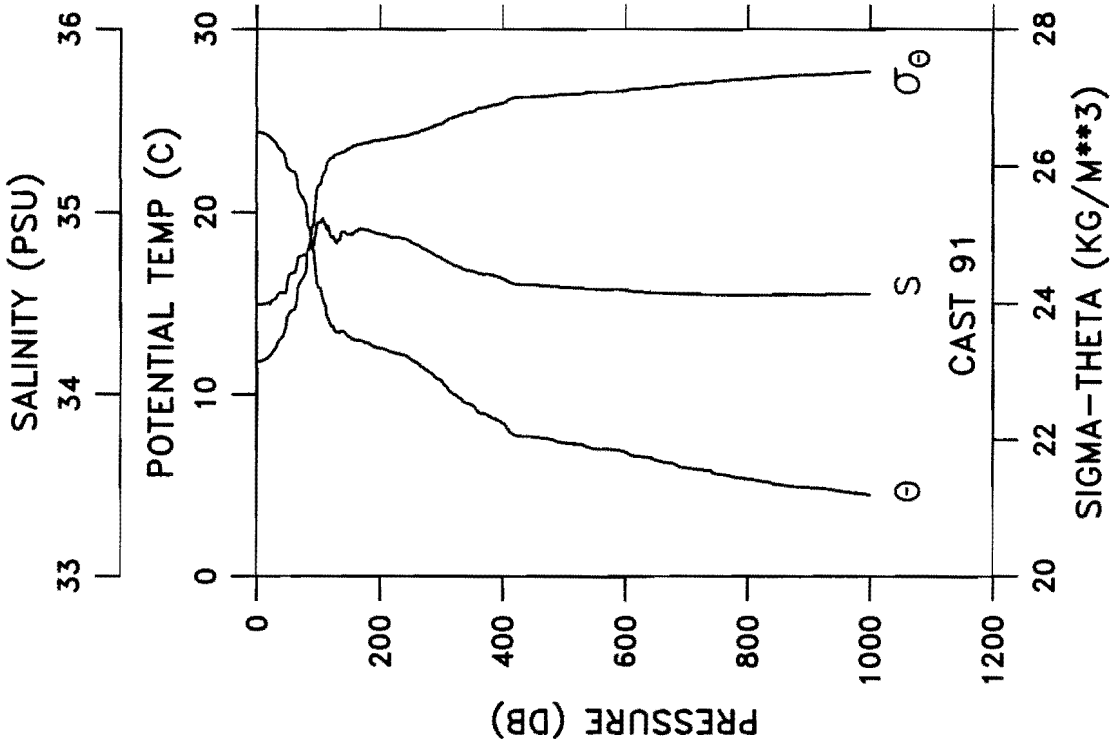
CAST GP1-99-KA-0081 DATE 02 FEB 99 TIME 0919 GMT
 LAT 02 05.7N LONG 140 24.7W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 084 T SPD 17 KT VISIBILITY 7
 CLOUD 7 AMOUNT DRY 25.0 WET 22.5 DEPTH 4334 M



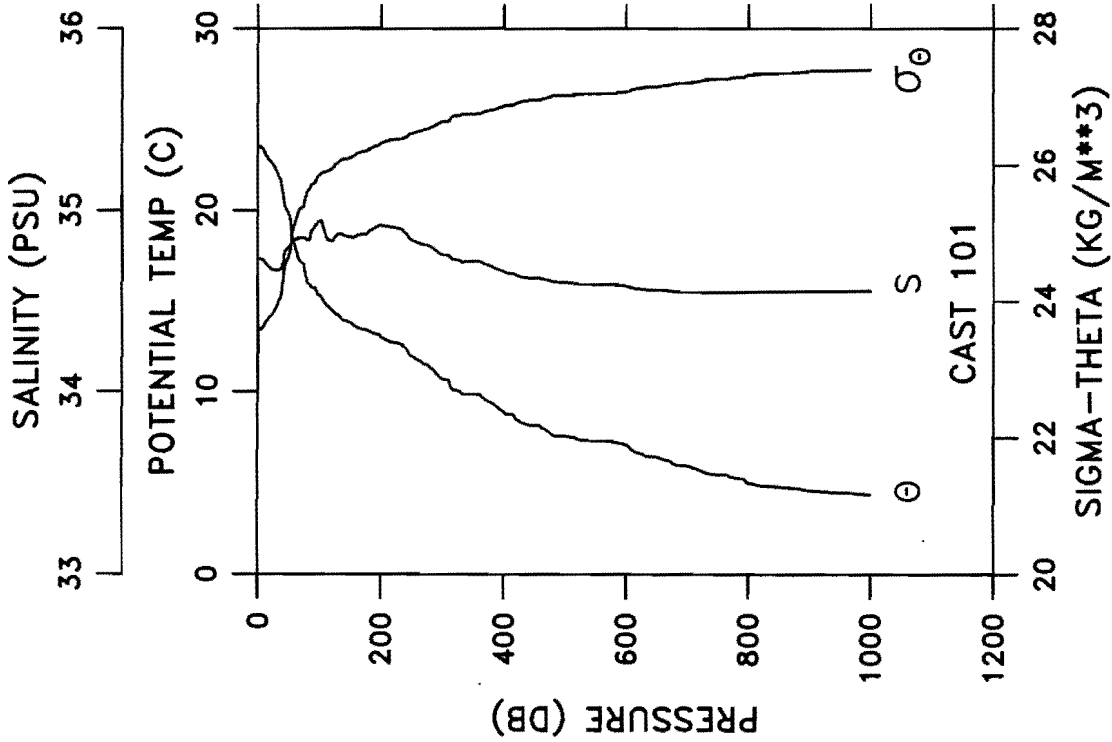
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH (DYN-M)	DELTA-D (DYN-M)
0	25.821	34.251	22.525	0.000
10	25.823	34.250	22.524	0.053
20	25.592	34.271	22.612	0.106
30	24.314	34.498	23.170	0.155
40	24.108	34.537	23.261	0.202
50	23.763	34.552	23.374	0.248
60	22.340	34.520	23.759	0.291
70	22.046	34.664	23.951	0.332
80	21.392	34.725	24.179	0.371
90	19.489	34.783	24.731	0.405
100	17.653	34.861	25.251	0.435
110	16.262	34.931	25.635	0.460
120	15.227	34.899	25.845	0.483
130	14.026	34.877	26.087	0.503
140	13.429	34.884	26.216	0.522
150	13.233	34.919	26.283	0.540
160	13.065	34.910	26.311	0.558
170	12.927	34.905	26.335	0.575
180	12.872	34.900	26.341	0.593
190	12.819	34.896	26.349	0.610
200	12.666	34.883	26.369	0.627
250	11.989	34.840	26.468	0.710
300	11.214	34.786	26.571	0.790
350	10.002	34.709	26.725	0.863
400	8.962	34.661	26.859	0.930
450	7.907	34.609	26.981	0.980
500	7.322	34.585	27.047	1.046
550	6.808	34.573	27.109	1.099
600	6.495	34.564	27.144	1.150
650	6.192	34.558	27.179	1.199
700	5.982	34.555	27.203	1.248
750	5.864	34.553	27.217	1.295
800	5.724	34.551	27.232	1.343
900	5.259	34.549	27.288	1.434
1000	4.849	34.550	27.336	1.520
1500	3.021	34.601	27.565	1.885
2000	2.223	34.638	27.663	2.170
2500	1.650	34.667	27.732	2.417
3000	1.497	34.674	27.749	2.649
3500	1.234	34.687	27.778	2.874
4000	1.104	34.694	27.792	3.090
4003	1.104	34.694	27.792	3.092

CAST GP1-99-KA-0091 DATE 04 FEB 99 TIME 0915 GMT
 LAT 01 00.1N LONG 139 59.1W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 081 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 24.2 WET 22.8 DEPTH 4323 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.373	34.497	23.151	0.000
10	24.330	34.498	23.165	0.047
20	24.150	34.507	23.225	0.094
30	23.828	34.528	23.337	0.140
40	23.381	34.560	23.492	0.185
50	22.432	34.616	23.806	0.228
60	22.216	34.671	23.908	0.268
70	21.034	34.760	24.303	0.307
80	20.412	34.771	24.479	0.342
90	18.030	34.821	25.129	0.374
100	15.934	34.944	25.721	0.400
110	15.011	34.940	25.924	0.422
120	13.846	34.873	26.122	0.441
130	13.437	34.832	26.175	0.461
140	13.478	34.895	26.215	0.479
150	13.192	34.880	26.262	0.497
160	13.005	34.896	26.312	0.515
170	12.960	34.912	26.333	0.532
180	12.847	34.905	26.350	0.549
190	12.636	34.890	26.381	0.566
200	12.557	34.882	26.390	0.583
250	11.946	34.841	26.476	0.666
300	10.789	34.753	26.622	0.743
350	9.402	34.680	26.802	0.812
400	8.436	34.638	26.924	0.874
450	7.649	34.604	27.015	0.931
500	7.342	34.591	27.049	0.986
550	6.996	34.580	27.089	1.040
600	6.816	34.575	27.109	1.093
650	6.365	34.562	27.159	1.144
700	5.960	34.554	27.205	1.192
750	5.607	34.550	27.246	1.239
800	5.346	34.548	27.276	1.285
900	4.883	34.551	27.333	1.371
1000	4.466	34.555	27.383	1.452
1003	4.455	34.555	27.384	1.455



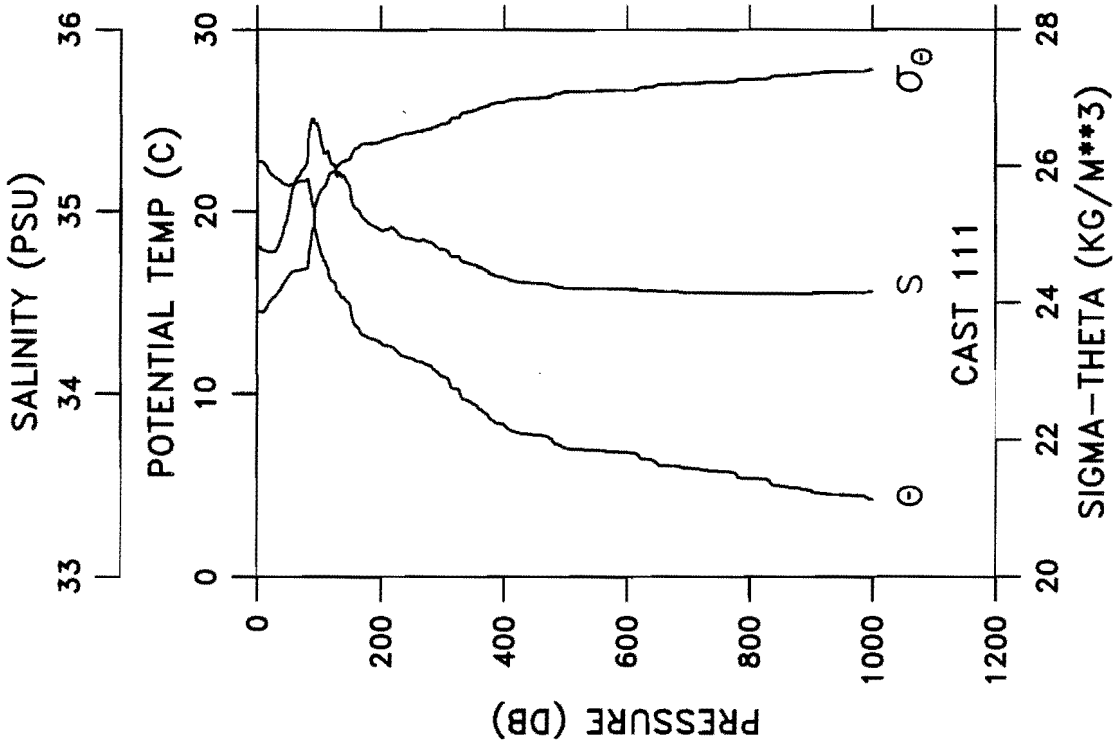
CAST GP1-99-KA-0101 DATE 05 FEB 99 TIME 0342 GMT
 LAT 00 03.2N LONG 139 53.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 102 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.0 WET 23.5 DEPTH 4360 M



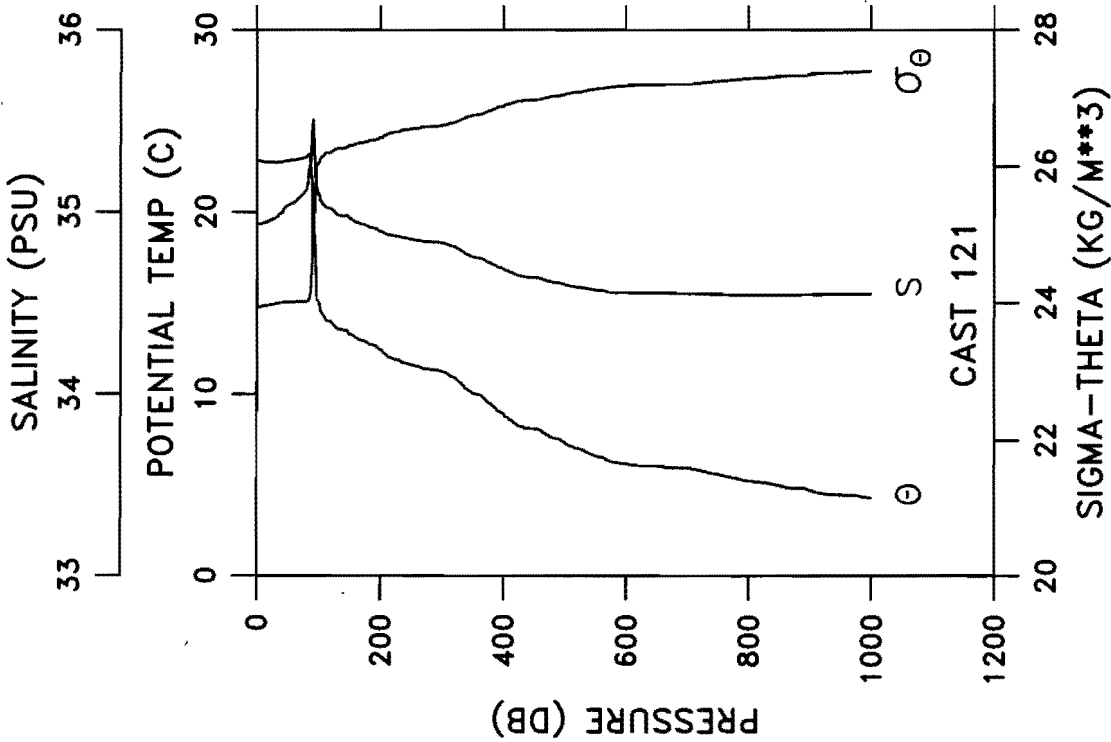
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.542	34.734	23.576	0.000
10	23.287	34.722	23.641	0.043
20	22.724	34.681	23.772	0.085
30	22.209	34.669	23.909	0.125
40	21.121	34.700	24.234	0.164
50	19.833	34.796	24.652	0.199
60	18.101	34.839	25.125	0.229
70	17.135	34.847	25.365	0.256
80	16.016	34.837	25.619	0.282
90	15.736	34.896	25.728	0.305
100	15.321	34.941	25.856	0.327
110	14.833	34.865	25.905	0.349
120	14.512	34.830	25.948	0.370
130	14.229	34.870	26.039	0.390
140	13.936	34.862	26.095	0.410
150	13.808	34.853	26.114	0.429
160	13.563	34.860	26.170	0.448
170	13.439	34.869	26.203	0.467
180	13.348	34.881	26.231	0.485
190	13.197	34.905	26.281	0.503
200	13.007	34.920	26.330	0.521
250	11.964	34.837	26.470	0.606
300	10.699	34.756	26.640	0.683
350	9.882	34.720	26.754	0.753
400	8.930	34.666	26.868	0.819
450	8.161	34.628	26.958	0.879
500	7.605	34.604	27.021	0.936
550	7.342	34.593	27.051	0.991
600	7.102	34.584	27.077	1.046
650	6.421	34.562	27.153	1.097
700	5.928	34.552	27.208	1.146
750	5.444	34.550	27.266	1.192
800	4.992	34.551	27.320	1.236
900	4.586	34.554	27.369	1.318
1000	4.350	34.559	27.398	1.396
1003	4.342	34.559	27.399	1.399

CAST GP1-99-KA-0111 DATE 05 FEB 99 TIME 1158 GMT
 LAT 00 59.4S LONG 139 54.6W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 081 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 23.0 WET 21.5 DEPTH 4210 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.732	34.808	23.866	0.000
10	22.685	34.787	23.864	0.040
20	22.153	34.777	24.007	0.080
30	21.845	34.784	24.098	0.119
40	21.591	34.862	24.228	0.156
50	21.408	34.988	24.375	0.193
60	21.548	35.148	24.457	0.228
70	21.649	35.210	24.477	0.263
80	21.713	35.262	24.498	0.297
90	20.280	35.511	25.079	0.329
100	18.134	35.446	25.581	0.355
110	17.245	35.324	25.705	0.379
120	16.200	35.263	25.905	0.401
130	15.573	35.199	25.999	0.422
140	15.275	35.197	26.063	0.442
150	14.886	35.128	26.097	0.462
160	13.705	35.014	26.260	0.480
170	13.217	34.968	26.325	0.498
180	13.075	34.937	26.329	0.515
190	12.959	34.917	26.338	0.533
200	12.769	34.897	26.359	0.550
250	11.944	34.850	26.483	0.632
300	10.959	34.784	26.623	0.710
350	9.470	34.706	26.812	0.779
400	8.327	34.637	26.940	0.841
450	7.769	34.606	26.999	0.898
500	7.031	34.580	27.084	0.953
550	6.935	34.577	27.095	1.005
600	6.800	34.573	27.110	1.057
650	6.174	34.563	27.185	1.108
700	5.948	34.555	27.208	1.156
750	5.763	34.551	27.228	1.203
800	5.398	34.548	27.270	1.249
900	4.713	34.550	27.351	1.335
1000	4.228	34.560	27.412	1.414
1002	4.227	34.560	27.412	1.415

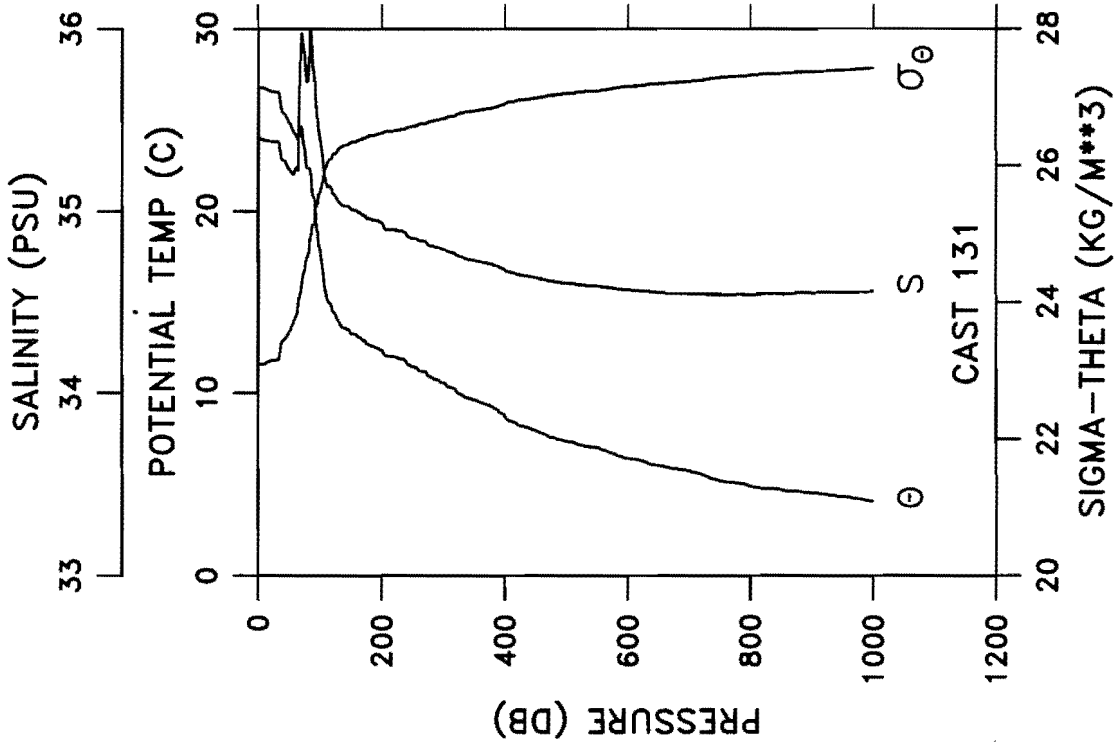


CAST GP1-99-KA-0121 DATE 05 FEB 99 TIME 2002 GMT
 LAT 01 59.9S LONG 139 54.7W WEATHER 0 SEA STATE 4
 BAROMETER 12 WIND DIR 088 T SPD 13 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 24.2 WET 22.5 DEPTH 4100 M



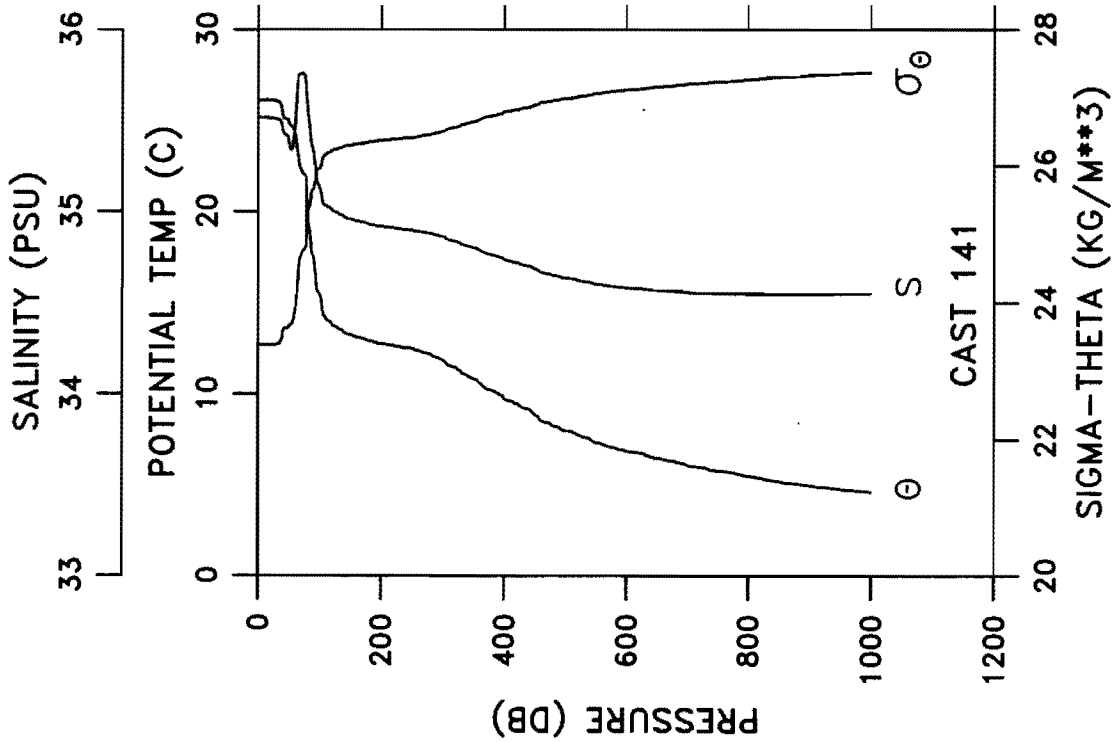
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.799	34.935	23.943	0.000
10	22.755	34.938	23.958	0.040
20	22.740	34.951	23.973	0.079
30	22.718	34.967	23.991	0.118
40	22.733	34.992	24.006	0.157
50	22.810	35.034	24.015	0.196
60	22.848	35.050	24.017	0.236
70	22.915	35.080	24.020	0.275
80	23.012	35.122	24.024	0.314
90	21.361	35.469	24.754	0.351
100	15.063	35.101	26.037	0.375
110	14.148	35.030	26.180	0.395
120	13.966	35.016	26.208	0.413
130	13.583	34.983	26.261	0.431
140	13.527	34.975	26.267	0.449
150	13.297	34.964	26.306	0.467
160	13.091	34.943	26.331	0.484
170	12.945	34.931	26.351	0.501
180	12.797	34.920	26.372	0.518
190	12.685	34.910	26.387	0.535
200	12.444	34.894	26.422	0.552
250	11.622	34.850	26.545	0.631
300	11.254	34.830	26.597	0.707
350	10.070	34.754	26.748	0.779
400	8.947	34.688	26.883	0.845
450	8.139	34.641	26.972	0.904
500	7.366	34.603	27.055	0.960
550	6.624	34.573	27.134	1.013
600	6.174	34.556	27.179	1.062
650	6.061	34.557	27.195	1.110
700	5.962	34.552	27.203	1.157
750	5.593	34.547	27.246	1.204
800	5.228	34.544	27.287	1.249
900	4.714	34.547	27.349	1.334
1000	4.294	34.553	27.399	1.414
1001	4.291	34.552	27.399	1.415

CAST GP1-99-KA-0131 DATE 06 FEB 99 TIME 0438 GMT
 LAT 02 59.9S LONG 139 56.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 081 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.0 WET 24.9 DEPTH 4309 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.770	35.401	23.095	0.000
10	26.738	35.389	23.096	0.048
20	26.581	35.383	23.142	0.095
30	26.541	35.381	23.153	0.142
40	25.414	35.278	23.427	0.189
50	24.845	35.229	23.564	0.233
60	24.214	35.235	23.758	0.275
70	24.590	35.976	24.205	0.315
80	22.354	35.718	24.665	0.350
90	20.768	35.762	25.138	0.380
100	17.933	35.399	25.595	0.406
110	15.461	35.150	25.986	0.428
120	14.567	35.101	26.145	0.448
130	13.925	35.051	26.243	0.466
140	13.569	35.027	26.299	0.484
150	13.280	35.010	26.345	0.502
160	13.152	34.999	26.362	0.519
170	12.897	34.977	26.396	0.535
180	12.617	34.959	26.438	0.552
190	12.516	34.950	26.451	0.568
200	12.351	34.938	26.474	0.584
250	11.448	34.852	26.579	0.662
300	10.563	34.791	26.691	0.736
350	9.649	34.730	26.801	0.803
400	8.718	34.677	26.910	0.867
450	7.986	34.635	26.989	0.926
500	7.372	34.605	27.056	0.981
550	7.025	34.589	27.092	1.035
600	6.426	34.567	27.156	1.086
650	6.024	34.552	27.196	1.134
700	5.737	34.546	27.227	1.181
750	5.183	34.540	27.289	1.226
800	4.877	34.540	27.325	1.269
900	4.507	34.551	27.375	1.350
1000	4.053	34.559	27.430	1.427
1002	4.049	34.559	27.431	1.429

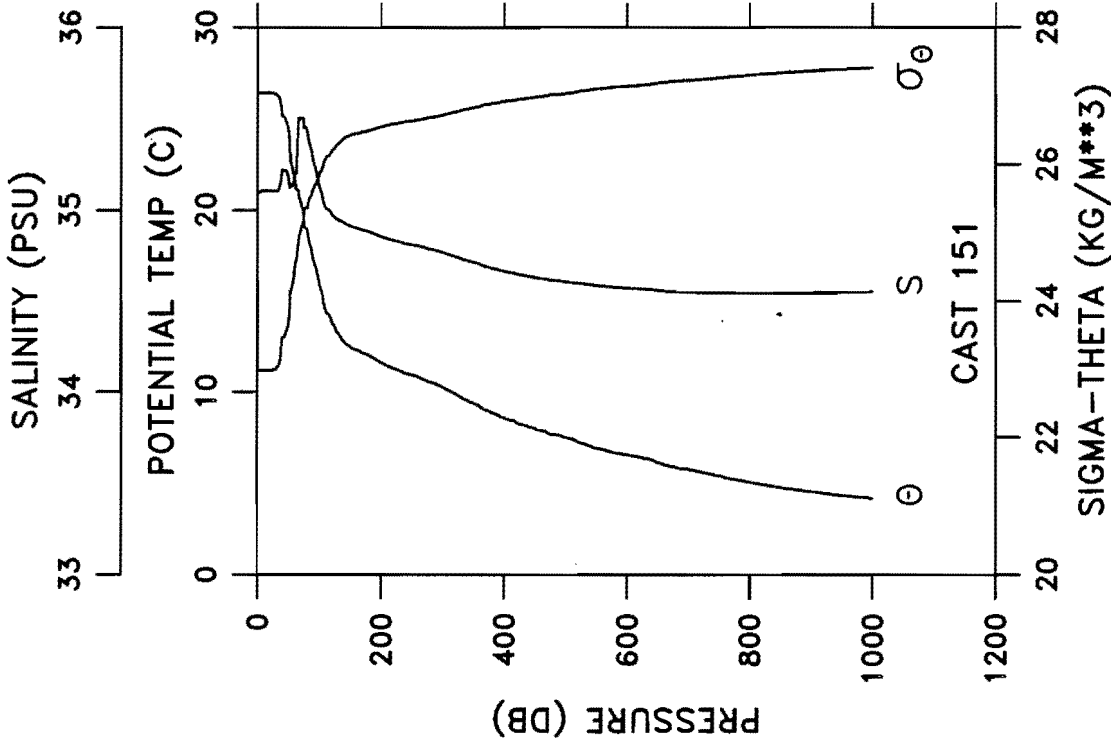
CAST GP1-99-KA-0141 DATE 08 FEB 99 TIME 1225 GMT
 LAT 03 59.9S LONG 132 28.7W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 110 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 24.8 WET 23.0 DEPTH 4734 M



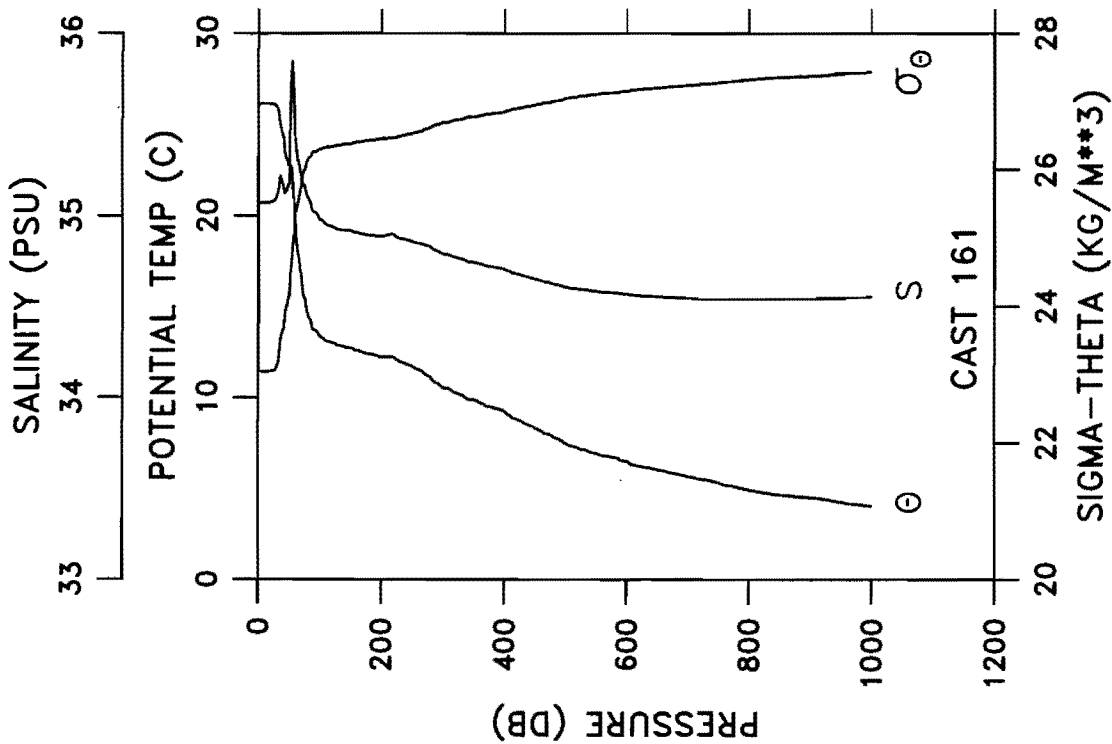
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.122	35.518	23.388	0.000
10	26.111	35.515	23.389	0.045
20	26.112	35.513	23.387	0.090
30	26.070	35.508	23.397	0.135
40	25.330	35.453	23.584	0.179
50	24.940	35.385	23.652	0.222
60	24.268	35.459	23.910	0.264
70	22.284	35.757	24.715	0.299
80	19.888	35.584	25.238	0.330
90	17.428	35.324	25.662	0.355
100	15.423	35.124	25.975	0.377
110	14.143	35.029	26.180	0.396
120	13.802	35.004	26.233	0.414
130	13.614	34.989	26.260	0.432
140	13.364	34.968	26.295	0.450
150	13.265	34.959	26.308	0.468
160	13.131	34.947	26.326	0.485
170	13.061	34.941	26.336	0.502
180	12.920	34.929	26.355	0.520
190	12.857	34.923	26.363	0.537
200	12.770	34.918	26.376	0.554
250	12.495	34.896	26.413	0.638
300	11.859	34.860	26.508	0.720
350	10.860	34.801	26.646	0.796
400	9.730	34.736	26.792	0.866
450	8.910	34.686	26.887	0.931
500	8.004	34.636	26.988	0.991
550	7.335	34.603	27.060	1.047
600	6.856	34.583	27.110	1.100
650	6.472	34.570	27.152	1.152
700	6.059	34.558	27.196	1.201
750	5.784	34.551	27.225	1.249
800	5.498	34.548	27.258	1.295
900	4.960	34.548	27.321	1.383
1000	4.603	34.552	27.365	1.466
1002	4.603	34.552	27.365	1.468

CAST GP1-99-KA-0151 DATE 11 FEB 99 TIME 0624 GMT
 LAT 05 01.35 LONG 124 56.7W WEATHER 0 SEA STATE 4
 BAROMETER 12 WIND DIR 059 T SPD 13 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 25.5 WET 23.0 DEPTH 4552 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.422	35.102	22.980	0.000
10	26.420	35.107	22.984	0.049
20	26.430	35.107	22.981	0.098
30	26.365	35.104	22.999	0.146
40	25.157	35.224	23.465	0.194
50	24.394	35.180	23.662	0.237
60	21.652	35.193	24.463	0.275
70	20.423	35.506	25.037	0.307
80	18.966	35.437	25.365	0.335
90	17.342	35.273	25.643	0.360
100	15.981	35.130	25.853	0.383
110	14.520	35.013	26.087	0.403
120	13.889	34.982	26.197	0.422
130	13.260	34.950	26.302	0.440
140	12.773	34.930	26.384	0.457
150	12.470	34.912	26.431	0.474
160	12.313	34.902	26.453	0.490
170	12.131	34.890	26.480	0.506
180	12.028	34.883	26.493	0.522
190	11.818	34.869	26.523	0.537
200	11.623	34.856	26.549	0.553
250	10.939	34.810	26.639	0.627
300	10.267	34.768	26.725	0.698
350	9.405	34.715	26.829	0.764
400	8.597	34.665	26.920	0.827
450	8.009	34.632	26.983	0.885
500	7.504	34.608	27.039	0.941
550	6.906	34.587	27.107	0.995
600	6.555	34.573	27.143	1.046
650	6.119	34.560	27.190	1.095
700	5.760	34.550	27.227	1.142
750	5.399	34.544	27.267	1.188
800	5.045	34.542	27.307	1.231
900	4.529	34.546	27.368	1.314
1000	4.150	34.554	27.415	1.392
1003	4.144	34.553	27.416	1.394

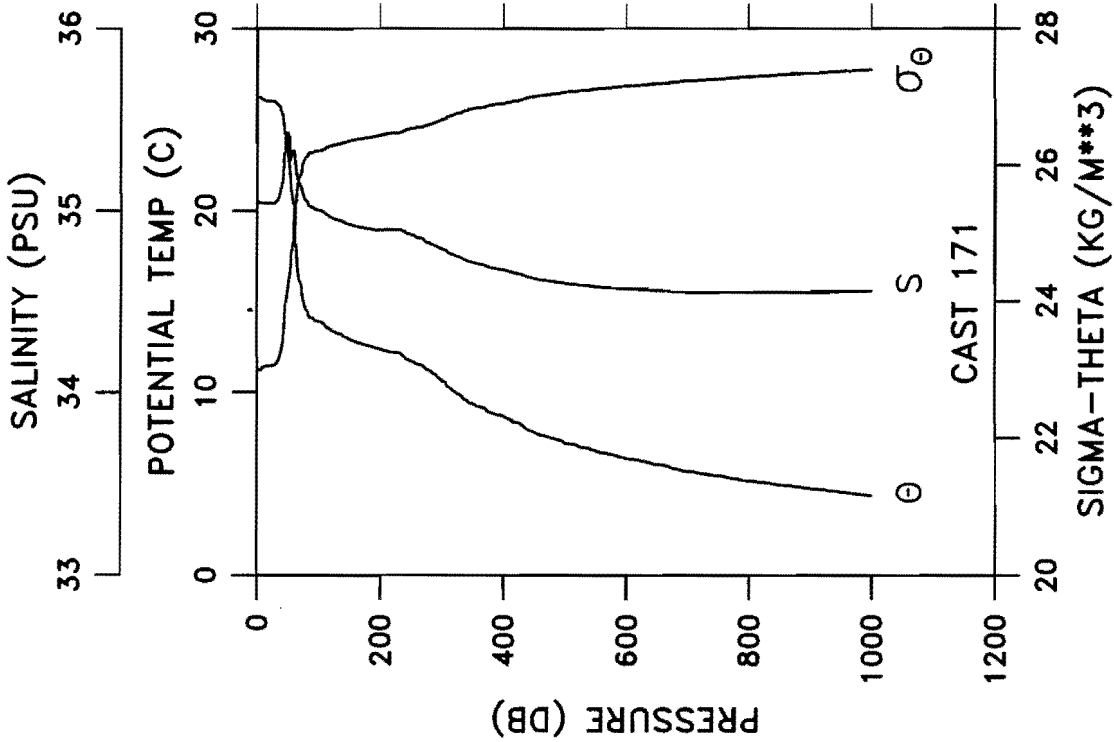


CAST GP1-99-KA-0161 DATE 11 FEB 99 TIME 1433 GMT
 LAT 03 59.8S LONG 124 55.6W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 088 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.0 WET 22.0 DEPTH 4523 M



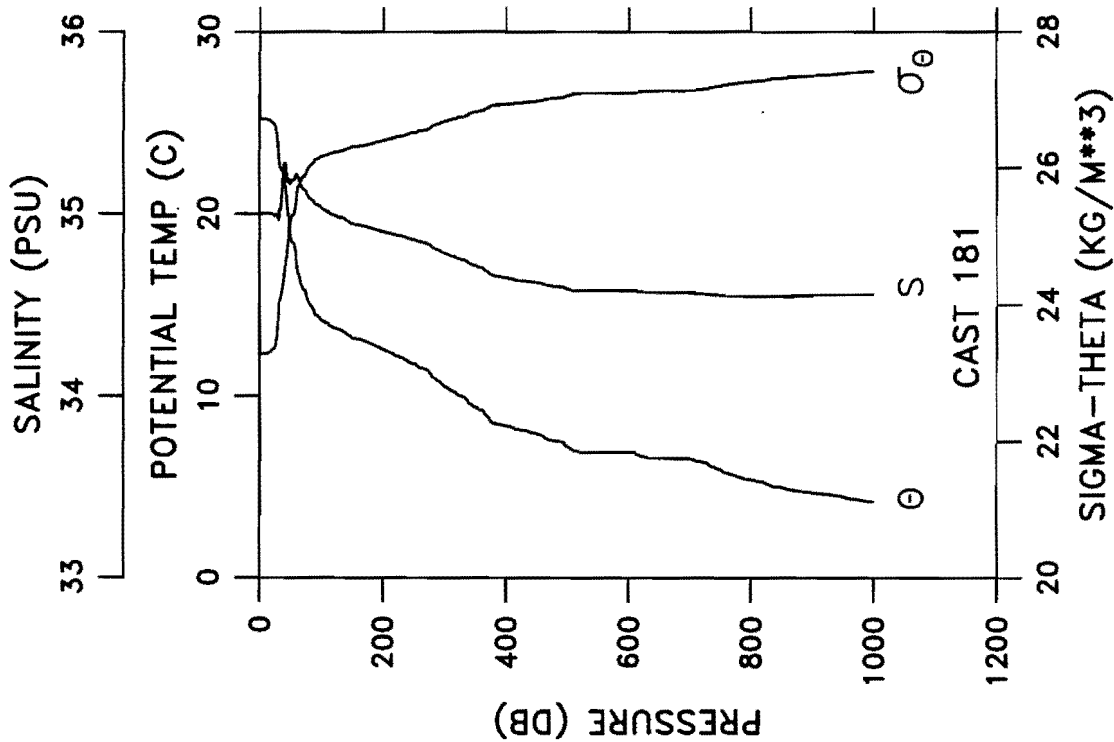
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.126	35.074	23.052	0.000
10	26.128	35.072	23.050	0.048
20	26.126	35.074	23.051	0.096
30	25.970	35.105	23.124	0.144
40	24.401	35.172	23.654	0.189
50	22.687	35.172	24.156	0.229
60	19.212	35.459	25.319	0.261
70	16.556	35.202	25.775	0.285
80	14.573	35.100	26.143	0.305
90	13.711	35.020	26.263	0.324
100	13.335	34.977	26.308	0.341
110	13.130	34.952	26.330	0.358
120	13.036	34.940	26.340	0.376
130	12.863	34.923	26.362	0.393
140	12.785	34.920	26.374	0.409
150	12.730	34.916	26.382	0.426
160	12.591	34.906	26.402	0.443
170	12.478	34.897	26.418	0.459
180	12.398	34.892	26.429	0.476
190	12.333	34.888	26.439	0.492
200	12.233	34.887	26.457	0.508
250	11.697	34.857	26.536	0.588
300	10.548	34.789	26.683	0.663
350	9.891	34.743	26.770	0.732
400	9.248	34.705	26.847	0.797
450	8.314	34.651	26.953	0.858
500	7.479	34.607	27.042	0.915
550	6.926	34.584	27.102	0.969
600	6.505	34.570	27.147	1.020
650	6.022	34.556	27.189	1.069
700	5.652	34.548	27.239	1.115
750	5.329	34.542	27.274	1.161
800	4.923	34.539	27.319	1.204
900	4.500	34.542	27.369	1.285
1000	4.050	34.554	27.426	1.362
1002	4.040	34.554	27.427	1.364

CAST GP1-99-KA-0171 DATE 11 FEB 99 TIME 2221 GMT
 LAT 02 59.95 LONG 124 55.5W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 100 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.1 WET 22.7 DEPTH 4629 M



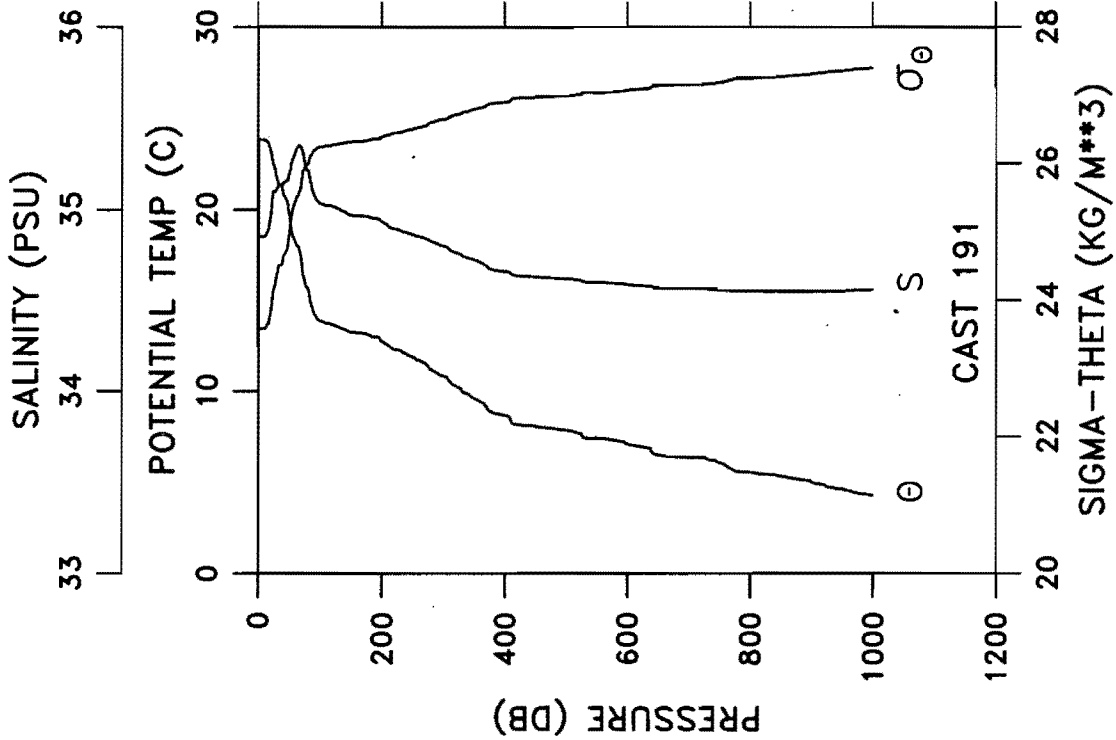
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.243	35.049	22.996	0.000
10	26.109	35.044	23.034	0.049
20	26.040	35.041	23.054	0.097
30	25.976	35.048	23.079	0.145
40	25.402	35.139	23.325	0.192
50	23.167	35.430	24.213	0.233
60	20.004	35.321	25.007	0.266
70	16.039	35.140	25.847	0.290
80	14.492	35.054	26.125	0.310
90	14.076	35.019	26.187	0.329
100	13.875	35.003	26.216	0.347
110	13.646	34.986	26.251	0.365
120	13.375	34.964	26.290	0.383
130	13.214	34.950	26.312	0.401
140	13.065	34.937	26.332	0.418
150	12.896	34.925	26.356	0.435
160	12.743	34.915	26.379	0.452
170	12.652	34.908	26.392	0.469
180	12.555	34.902	26.406	0.485
190	12.448	34.896	26.423	0.502
200	12.357	34.896	26.440	0.518
250	11.718	34.868	26.541	0.598
300	10.642	34.790	26.676	0.673
350	9.388	34.715	26.832	0.741
400	8.722	34.675	26.908	0.803
450	7.813	34.627	27.009	0.861
500	7.225	34.599	27.071	0.916
550	6.787	34.581	27.118	0.969
600	6.384	34.569	27.163	1.019
650	6.050	34.559	27.198	1.067
700	5.655	34.550	27.241	1.114
750	5.435	34.547	27.285	1.160
800	5.160	34.547	27.297	1.203
900	4.738	34.551	27.349	1.288
1000	4.315	34.556	27.400	1.368
1002	4.304	34.556	27.401	1.369

CAST GP1-99-KA-0181 DATE 12 FEB 99 TIME 0637 GMT
 LAT 02 00.5S LONG 124 53.7W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 151 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 24.8 WET 22.8 DEPTH 4732 M



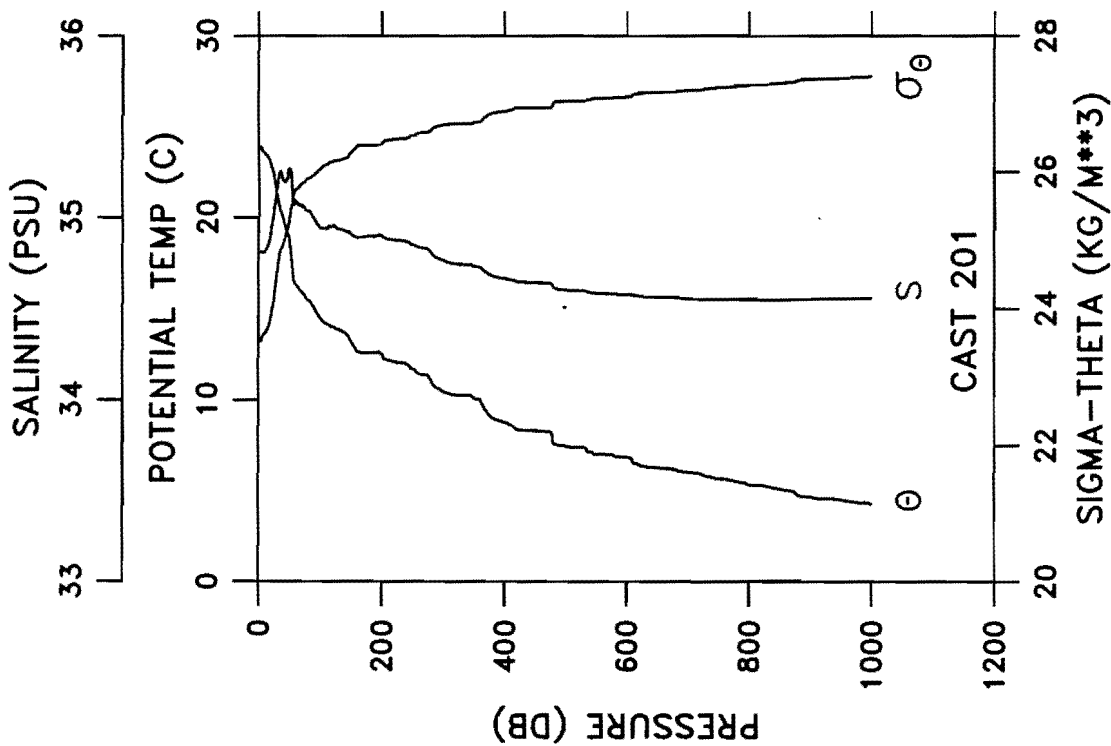
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.200	34.999	23.281	0.000
10	25.190	35.002	23.287	0.046
20	25.012	34.998	23.338	0.092
30	23.660	34.973	23.722	0.136
40	21.927	35.278	24.451	0.174
50	18.744	35.169	25.216	0.205
60	17.204	35.215	25.632	0.231
70	15.897	35.132	25.874	0.254
80	15.099	35.085	26.016	0.274
90	14.464	35.052	26.129	0.294
100	14.168	35.031	26.176	0.313
110	13.998	35.013	26.198	0.331
120	13.745	34.991	26.234	0.350
130	13.615	34.979	26.252	0.368
140	13.418	34.964	26.281	0.386
150	13.187	34.944	26.313	0.403
160	13.114	34.939	26.323	0.420
170	13.012	34.931	26.338	0.438
180	12.879	34.922	26.358	0.455
190	12.911	34.911	26.385	0.472
200	12.563	34.903	26.405	0.489
250	11.768	34.858	26.524	0.569
300	10.543	34.784	26.689	0.644
350	9.415	34.716	26.829	0.712
400	8.372	34.649	26.942	0.773
450	7.950	34.623	26.985	0.831
500	7.233	34.589	27.063	0.887
550	6.906	34.579	27.101	0.939
600	6.906	34.579	27.100	0.992
650	6.596	34.570	27.135	1.043
700	6.534	34.567	27.141	1.095
750	5.938	34.554	27.208	1.144
800	5.389	34.548	27.271	1.190
800	4.686	34.552	27.356	1.275
900	4.178	34.562	27.419	1.354
1000	4.164	34.562	27.420	1.356

CAST GP1-99-KA-0191 DATE 12 FEB 99 TIME 14:33 GMT
 LAT 00 59.9S LONG 124 35.5W WEATHER 0 SEA STATE 4
 BAROMETER 11 WIND DIR 102 T SPD 10 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 23.5 WET 22.0 DEPTH 4668 M



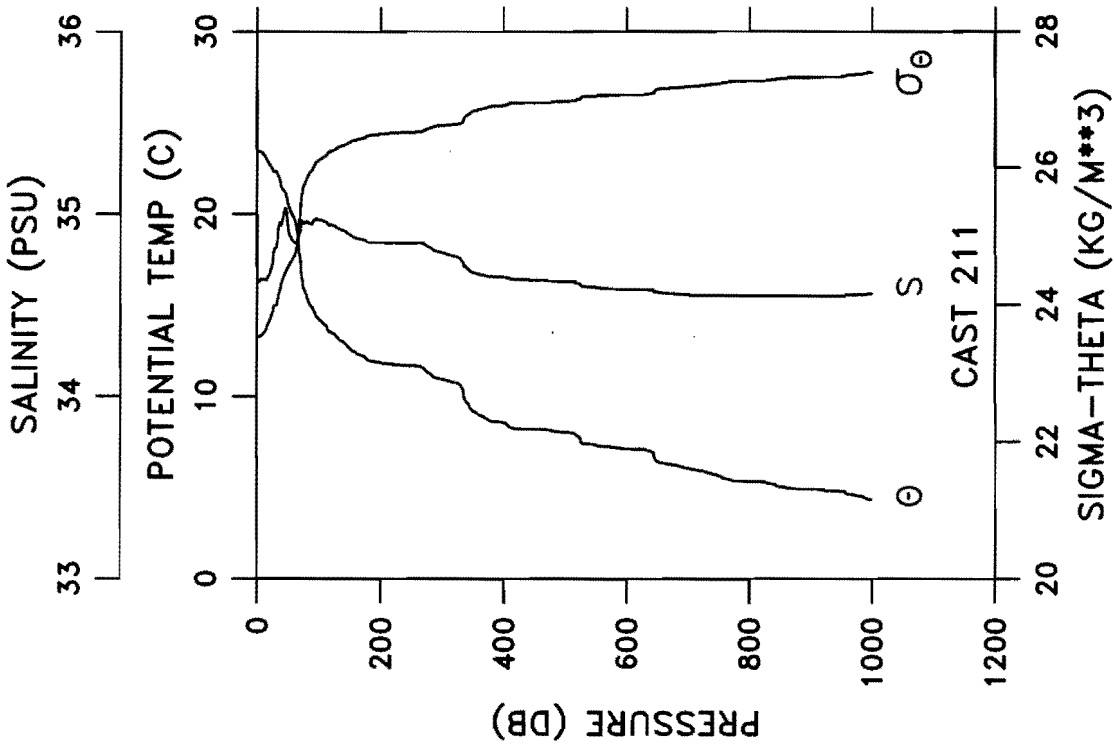
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.833	34.855	23.582	0.000
10	23.818	34.855	23.587	0.043
20	23.277	34.962	23.827	0.085
30	21.734	35.114	24.380	0.123
40	20.902	35.144	24.632	0.157
50	19.781	35.197	24.971	0.189
60	18.201	35.315	25.465	0.216
70	17.096	35.333	25.748	0.241
80	15.663	35.214	25.990	0.262
90	14.267	35.080	26.193	0.281
100	13.848	35.034	26.246	0.299
110	13.731	35.023	26.262	0.317
120	13.637	35.017	26.277	0.335
130	13.511	35.003	26.292	0.352
140	13.383	34.987	26.306	0.370
150	13.235	34.969	26.322	0.387
160	13.198	34.965	26.327	0.405
170	13.174	34.964	26.330	0.422
180	13.054	34.958	26.350	0.439
190	12.969	34.951	26.362	0.456
200	12.740	34.934	26.394	0.473
250	11.877	34.865	26.508	0.555
300	10.835	34.801	26.650	0.630
350	9.603	34.722	26.803	0.699
400	8.683	34.659	26.902	0.762
450	8.061	34.629	26.974	0.821
500	7.844	34.618	26.997	0.879
550	7.411	34.599	27.045	0.934
600	7.082	34.585	27.081	0.989
650	6.478	34.569	27.150	1.042
700	6.350	34.564	27.163	1.092
750	6.065	34.555	27.193	1.141
800	5.538	34.550	27.255	1.188
900	5.002	34.548	27.317	1.277
1000	4.291	34.557	27.403	1.358
1003	4.281	34.557	27.404	1.361

CAST GP1-99-KA-0201 DATE 12 FEB 99 TIME 2025 GMT
 LAT 00 11.35 LONG 124 21.8W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 093 T SPD 06 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 24.2 WET 22.3 DEPTH 4718 M



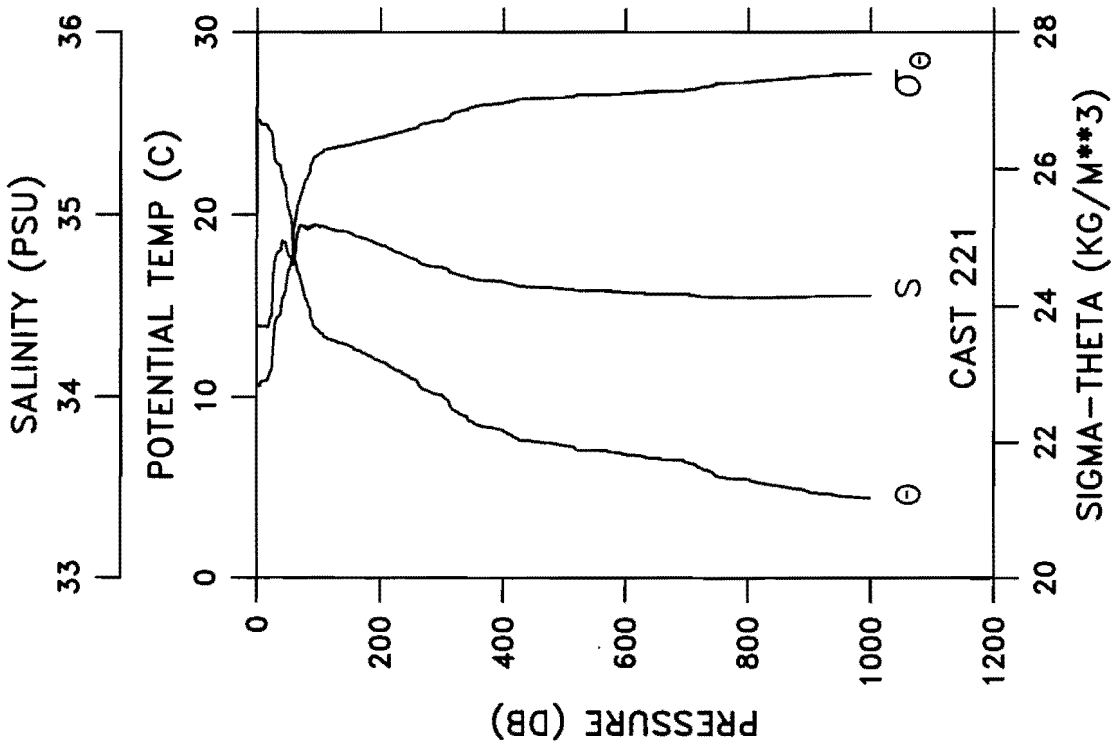
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.896	34.810	23.530	0.000
10	23.535	34.809	23.635	0.043
20	22.959	34.911	23.879	0.085
30	21.305	35.156	24.531	0.122
40	19.945	35.208	24.936	0.154
50	18.810	35.269	25.276	0.183
60	16.331	35.091	25.742	0.207
70	15.910	35.063	25.817	0.229
80	15.456	35.035	25.899	0.251
90	15.066	34.993	25.953	0.272
100	14.485	34.941	26.039	0.292
110	14.168	34.937	26.103	0.312
120	14.001	34.952	26.151	0.331
130	13.860	34.935	26.167	0.350
140	13.694	34.924	26.193	0.368
150	13.223	34.909	26.278	0.386
160	12.656	34.891	26.378	0.404
170	12.603	34.893	26.390	0.420
180	12.606	34.896	26.392	0.437
190	12.602	34.897	26.393	0.454
200	12.512	34.900	26.413	0.471
250	11.687	34.849	26.531	0.551
300	10.465	34.765	26.688	0.625
350	10.116	34.732	26.723	0.696
400	8.783	34.664	26.890	0.760
450	8.341	34.643	26.942	0.820
500	7.497	34.603	27.036	0.878
550	7.049	34.584	27.085	0.933
600	6.873	34.579	27.105	0.985
650	6.286	34.584	27.171	1.035
700	6.045	34.555	27.195	1.084
750	5.676	34.553	27.240	1.132
800	5.335	34.550	27.279	1.177
900	4.673	34.550	27.356	1.263
1000	4.285	34.560	27.406	1.343
1003	4.275	34.561	27.408	1.345

CAST GP1-99-KA-0211 DATE 13 FEB 99 TIME 0704 GMT
 LAT 01 00.1N LONG 124 44.4W WEATHER 0 SEA STATE 4
 BAROMETER 13 WIND DIR 088 T SPD 09 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 23.4 WET 21.6 DEPTH 4578 M



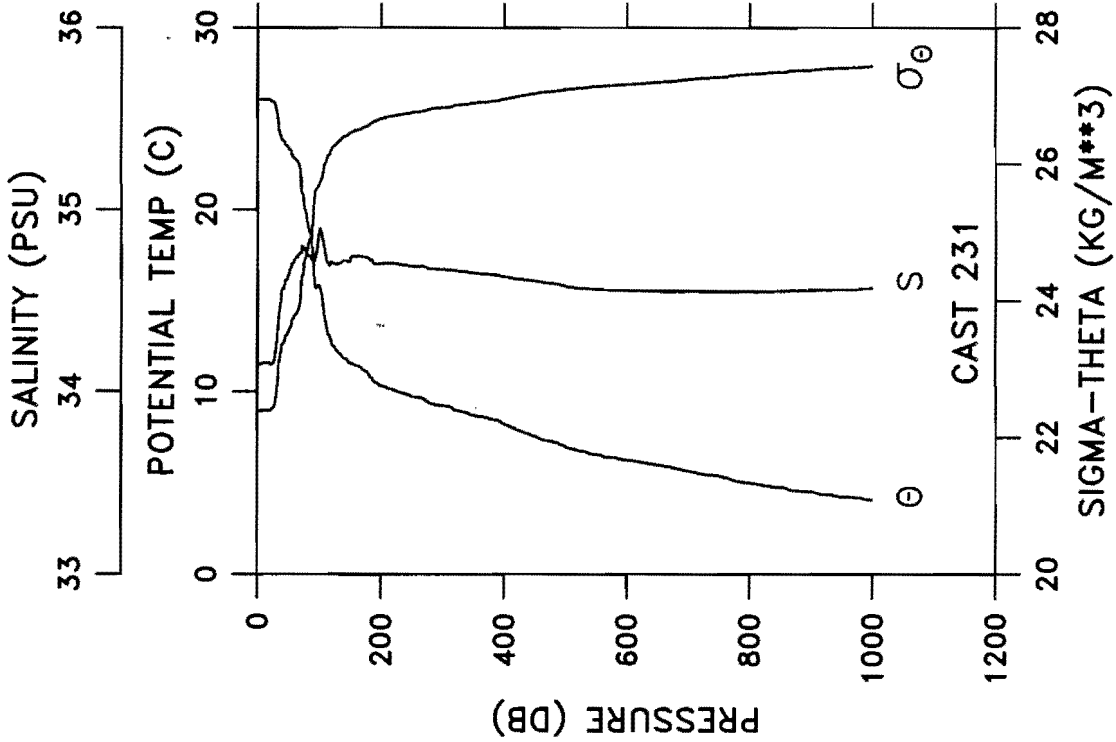
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.404	34.629	23.537	0.000
10	23.282	34.640	23.581	0.043
20	22.739	34.669	23.759	0.086
30	22.301	34.810	23.990	0.126
40	21.424	34.953	24.343	0.163
50	20.562	34.929	24.559	0.198
60	19.738	34.841	24.711	0.231
70	17.423	34.905	25.341	0.262
80	15.476	34.958	25.834	0.285
90	14.807	34.952	25.978	0.306
100	14.213	34.966	26.117	0.325
110	13.915	34.956	26.171	0.344
120	13.498	34.941	26.246	0.363
130	13.221	34.922	26.289	0.380
140	12.975	34.909	26.328	0.398
150	12.644	34.886	26.376	0.415
160	12.412	34.866	26.406	0.431
170	12.234	34.857	26.434	0.448
180	11.979	34.844	26.472	0.464
190	11.886	34.842	26.488	0.480
200	11.830	34.843	26.500	0.496
250	11.675	34.839	26.526	0.574
300	10.945	34.787	26.620	0.650
350	9.195	34.677	26.834	0.722
400	8.548	34.653	26.918	0.783
450	8.201	34.637	26.959	0.842
500	8.020	34.627	26.978	0.901
550	7.328	34.595	27.054	0.957
600	7.104	34.585	27.078	1.011
650	6.397	34.569	27.161	1.064
700	6.042	34.554	27.195	1.113
750	5.633	34.549	27.242	1.161
800	5.345	34.547	27.276	1.206
900	4.929	34.550	27.327	1.292
1000	4.356	34.560	27.400	1.374
1003	4.332	34.559	27.400	1.376

CAST GP1-99-KA-0221 DATE 13 FEB 99 TIME 2031 GMT
 LAT 01 57.8N LONG 125 04.0W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 108 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 25.2 WET 22.4 DEPTH 4673 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.182	34.392	22.828	0.000
10	24.937	34.387	22.899	0.050
20	24.658	34.410	23.001	0.099
30	22.979	34.762	23.760	0.145
40	22.298	34.828	24.004	0.186
50	20.571	34.790	24.452	0.223
60	17.819	34.763	25.136	0.256
70	16.589	34.941	25.567	0.282
80	15.353	34.928	25.839	0.305
90	14.177	34.931	26.097	0.325
100	13.667	34.939	26.210	0.344
110	13.275	34.932	26.286	0.362
120	13.146	34.920	26.302	0.379
130	12.999	34.909	26.324	0.397
140	12.948	34.911	26.335	0.414
150	12.817	34.901	26.353	0.431
160	12.597	34.882	26.382	0.448
170	12.447	34.872	26.404	0.465
180	12.286	34.860	26.426	0.481
190	12.114	34.846	26.448	0.498
200	11.957	34.833	26.468	0.514
250	11.031	34.762	26.585	0.592
300	10.124	34.714	26.707	0.664
350	8.646	34.650	26.901	0.728
400	8.148	34.634	26.964	0.787
450	7.552	34.606	27.030	0.843
500	7.335	34.594	27.052	0.898
550	7.073	34.585	27.082	0.951
600	6.835	34.575	27.107	1.004
650	6.612	34.567	27.131	1.056
700	6.384	34.563	27.158	1.107
750	5.613	34.548	27.244	1.155
800	5.445	34.547	27.264	1.200
900	4.749	34.552	27.349	1.287
1000	4.406	34.558	27.392	1.367
1003	4.394	34.559	27.393	1.369

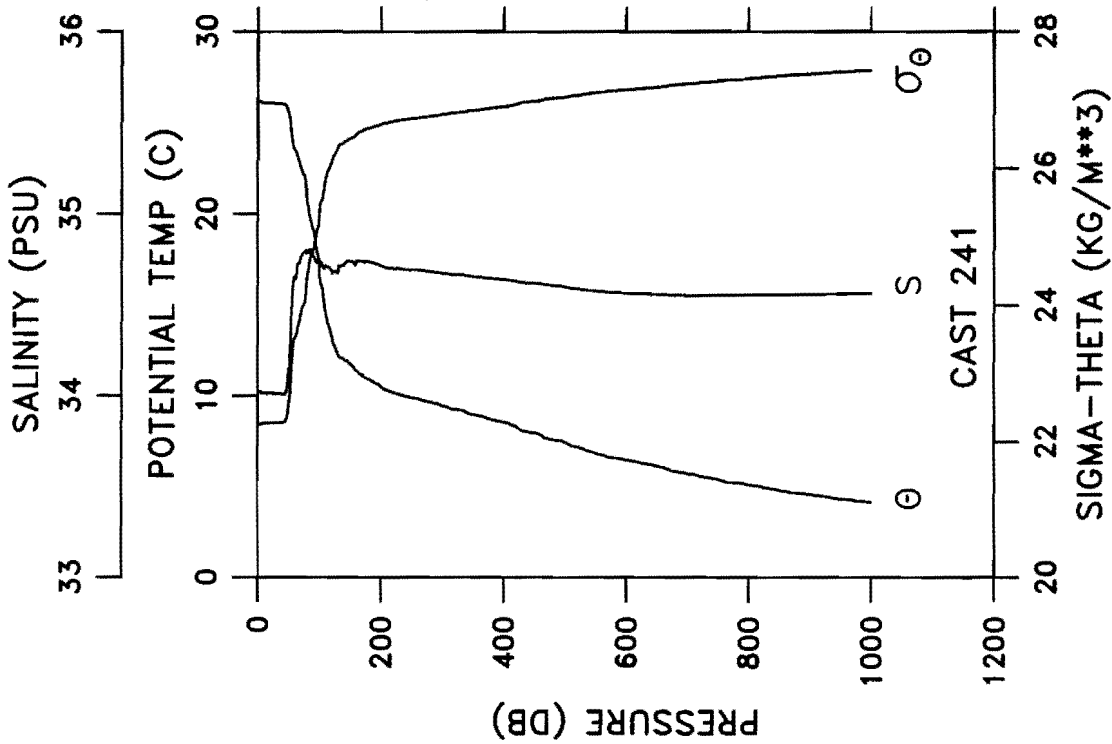
CAST GP1-99-KA-0231 DATE 14 FEB 99 TIME 1131 GMT
 LAT 02 59.9N LONG 125 15.2W WEATHER 0 SEA STATE 4
 BAROMETER 12 WIND DIR 105 T SPD 07 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 24.5 WET 22.5 DEPTH 4626 M



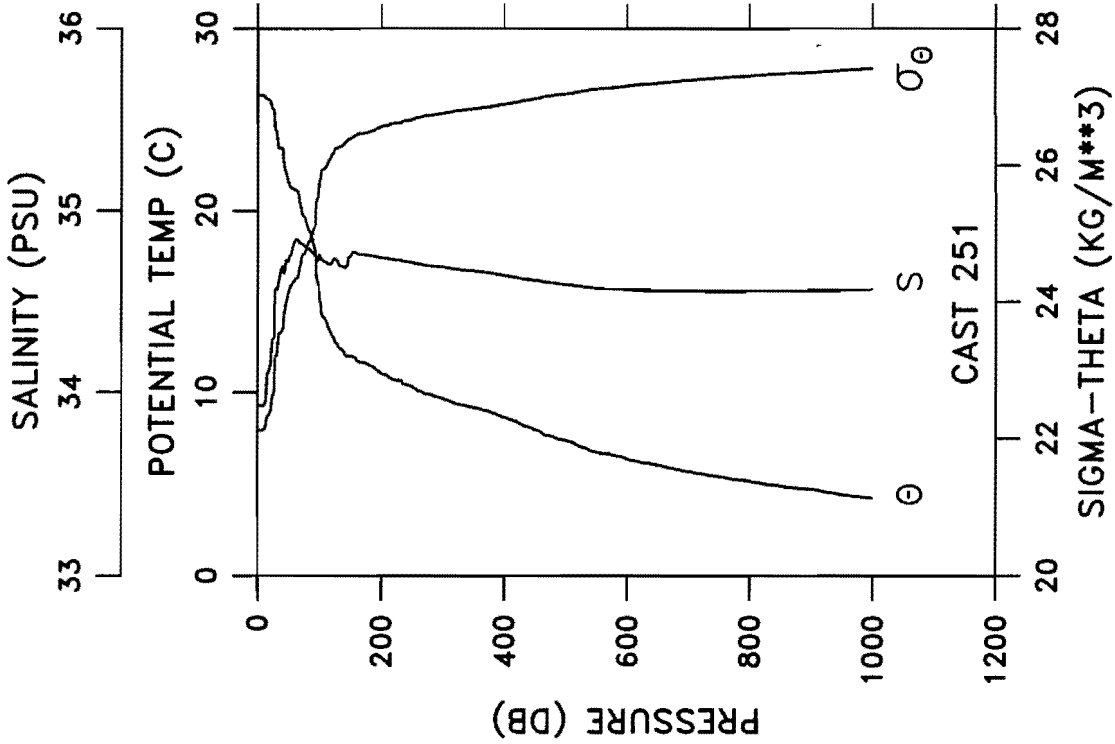
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.037	34.152	22.384	0.000
10	26.038	34.158	22.388	0.054
20	26.030	34.157	22.390	0.109
30	25.582	34.236	22.588	0.163
40	23.813	34.568	23.371	0.211
50	23.408	34.634	23.539	0.256
60	22.808	34.721	23.779	0.298
70	21.684	34.766	24.129	0.339
80	19.407	34.747	24.724	0.373
90	17.436	34.708	25.187	0.404
100	15.797	34.887	25.708	0.428
110	13.910	34.755	26.017	0.450
120	12.681	34.711	26.233	0.469
130	12.199	34.702	26.320	0.487
140	11.840	34.719	26.402	0.504
150	11.553	34.714	26.452	0.520
160	11.443	34.741	26.493	0.536
170	11.245	34.741	26.530	0.551
180	10.965	34.732	26.574	0.566
190	10.518	34.701	26.629	0.581
200	10.325	34.704	26.665	0.595
250	9.732	34.688	26.754	0.664
300	9.221	34.672	26.826	0.729
350	8.699	34.653	26.895	0.792
400	8.222	34.632	26.952	0.852
450	7.573	34.609	27.030	0.909
500	6.985	34.580	27.090	0.962
550	6.555	34.564	27.136	1.013
600	6.257	34.557	27.170	1.063
650	5.988	34.555	27.202	1.111
700	5.647	34.552	27.243	1.158
750	5.398	34.550	27.272	1.203
800	5.016	34.551	27.318	1.246
900	4.534	34.557	27.377	1.327
1000	4.072	34.569	27.436	1.403
1002	4.057	34.569	27.438	1.405

CAST GP1-99-KA-0241 DATE 14 FEB 99 TIME 1923 GMT
 LAT 04 00.2N LONG 125 07.9W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 157 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.8 WET 23.2 DEPTH 4493 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.165	34.024	22.248	0.000
10	26.079	34.015	22.268	0.056
20	26.069	34.015	22.271	0.111
30	26.059	34.014	22.273	0.167
40	26.029	34.010	22.279	0.223
50	25.551	34.149	22.532	0.278
60	23.510	34.649	23.521	0.326
70	22.509	34.765	23.898	0.368
80	20.654	34.795	24.433	0.407
90	19.137	34.768	24.810	0.440
100	16.637	34.890	25.363	0.469
110	14.549	34.717	25.852	0.493
120	13.279	34.688	26.096	0.514
130	12.256	34.677	26.289	0.532
140	11.955	34.725	26.385	0.549
150	11.742	34.740	26.436	0.566
160	11.401	34.742	26.502	0.582
170	11.154	34.738	26.544	0.597
180	10.906	34.737	26.588	0.612
190	10.710	34.727	26.616	0.627
200	10.489	34.713	26.644	0.641
250	9.891	34.694	26.732	0.711
300	9.438	34.674	26.792	0.778
350	8.984	34.657	26.853	0.842
400	8.557	34.641	26.907	0.904
450	7.973	34.620	26.980	0.963
500	7.461	34.601	27.039	1.019
550	6.841	34.579	27.109	1.072
600	6.465	34.566	27.150	1.123
650	6.130	34.559	27.188	1.172
700	5.682	34.554	27.240	1.219
750	5.376	34.553	27.277	1.264
800	5.092	34.554	27.311	1.307
900	4.564	34.559	27.375	1.389
1000	4.139	34.568	27.428	1.466
1004	4.134	34.568	27.429	1.469



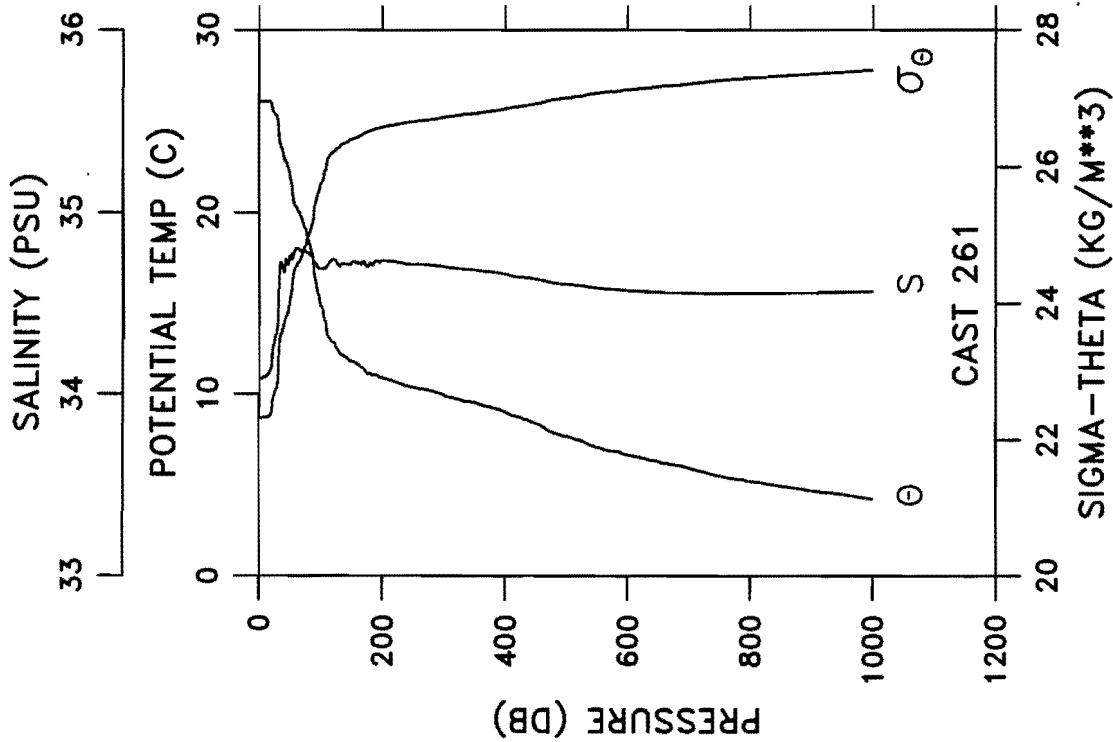
CAST GP1-99-KA-0251 DATE 15 FEB 99 TIME 0536 GMT
 LAT 05 20.7N LONG 124 57.6W WEATHER 5 SEA STATE 4
 BAROMETER 14 WIND DIR 123 T SPD 12 KT VISIBILITY 7
 CLOUD AMOUNT 8 DRY 25.2 WET 23.8 DEPTH 3927 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.356	33.928	22.116	0.000
10	26.314	33.933	22.133	0.057
20	26.029	34.146	22.382	0.113
30	24.398	34.568	23.198	0.164
40	23.421	34.693	23.580	0.208
50	21.571	34.723	24.128	0.248
60	21.183	34.831	24.317	0.285
70	20.210	34.822	24.572	0.321
80	19.185	34.794	24.817	0.353
90	18.210	34.763	25.039	0.384
100	15.134	34.757	25.756	0.410
110	13.946	34.717	25.981	0.431
120	13.111	34.716	26.151	0.451
130	12.556	34.714	26.260	0.469
140	12.199	34.687	26.309	0.487
150	11.989	34.746	26.395	0.504
160	11.790	34.766	26.448	0.520
170	11.652	34.759	26.468	0.536
180	11.532	34.754	26.487	0.552
190	11.335	34.748	26.519	0.568
200	11.043	34.742	26.567	0.583
250	10.333	34.716	26.673	0.656
300	9.696	34.690	26.762	0.725
350	9.194	34.669	26.828	0.790
400	8.664	34.644	26.893	0.853
450	7.979	34.618	26.977	0.913
500	7.386	34.595	27.045	0.969
550	6.733	34.575	27.120	1.022
600	6.370	34.566	27.162	1.072
650	6.031	34.560	27.201	1.120
700	5.675	34.556	27.243	1.167
750	5.394	34.555	27.276	1.212
800	5.157	34.556	27.305	1.255
900	4.706	34.559	27.359	1.338
1000	4.227	34.568	27.419	1.416
1002	4.224	34.568	27.419	1.418

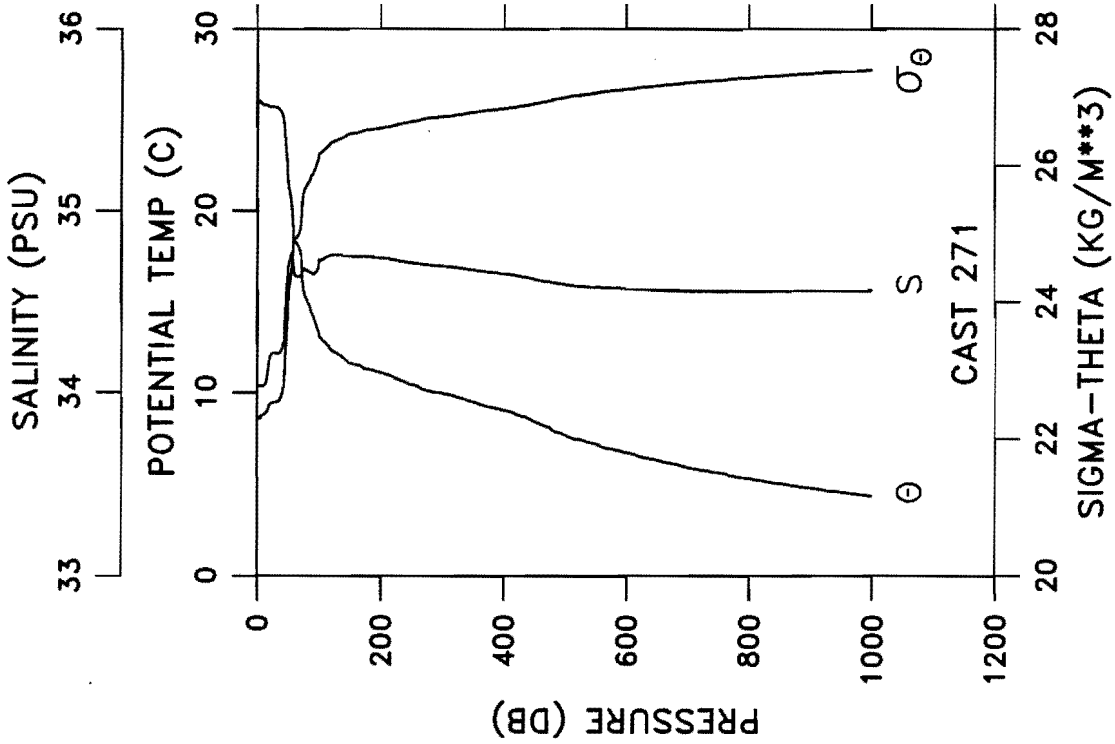
CAST GP1-99-KA-0261 DATE 15 FEB 99 TIME 1110 GMT
 LAT 05 59.6N LONG 125 14.6W WEATHER 5 SEA STATE 4
 BAROMETER 13 WIND DIR 148 T SPD 04 KT VISIBILITY 7
 CLOUD AMOUNT 8 DRY 24.0 WET 23.0 DEPTH 4424 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.085	34.091	22.323	0.000
10	26.091	34.097	22.326	0.055
20	25.977	34.144	22.397	0.110
30	25.142	34.364	22.820	0.162
40	23.047	34.678	23.677	0.207
50	21.985	34.755	24.037	0.247
60	20.305	34.802	24.531	0.283
70	19.534	34.788	24.723	0.317
80	18.414	34.773	24.997	0.348
90	16.467	34.725	25.429	0.376
100	14.874	34.691	25.762	0.400
110	13.384	34.705	26.087	0.422
120	12.855	34.742	26.223	0.440
130	12.329	34.701	26.295	0.458
140	12.057	34.716	26.358	0.475
150	11.821	34.724	26.409	0.492
160	11.657	34.722	26.438	0.508
170	11.400	34.728	26.491	0.524
180	11.164	34.722	26.530	0.540
190	11.063	34.732	26.556	0.555
200	10.917	34.736	26.585	0.570
250	10.386	34.715	26.663	0.643
300	9.971	34.702	26.725	0.713
350	9.562	34.684	26.779	0.781
400	9.037	34.661	26.847	0.846
450	8.420	34.634	26.923	0.908
500	7.697	34.606	27.009	0.966
550	7.095	34.586	27.080	1.021
600	6.685	34.572	27.125	1.074
650	6.304	34.564	27.169	1.124
700	5.951	34.558	27.210	1.172
750	5.512	34.554	27.261	1.219
800	5.210	34.554	27.298	1.263
900	4.706	34.558	27.358	1.347
1000	4.258	34.567	27.414	1.425
1003	4.248	34.567	27.416	1.428

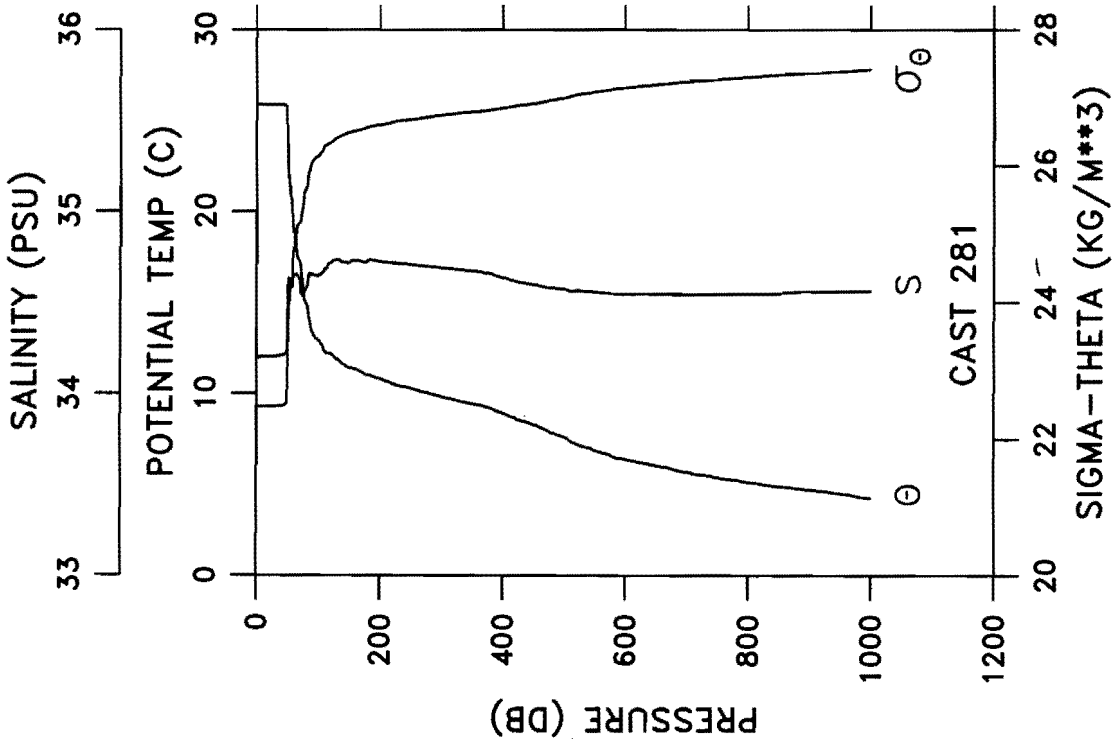


CAST GP1-99-KA-0271 DATE 15 FEB 99 TIME 2211 GMT
 LAT 07 00.0N LONG 125 23.5W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 040 T SPD 06 KT VISIBILITY 7
 CLOUD 2 AMOUNT 4 DRY 26.5 WET 23.3 DEPTH 4572 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.075	34.040	22.288	0.000
10	25.859	34.038	22.353	0.055
20	25.757	34.197	22.505	0.109
30	25.718	34.217	22.532	0.163
40	25.379	34.245	22.657	0.216
50	21.718	34.690	24.062	0.262
60	18.341	34.654	24.923	0.297
70	17.712	34.648	25.074	0.327
80	15.126	34.674	25.694	0.352
90	14.257	34.655	25.867	0.374
100	13.132	34.733	26.160	0.394
110	12.742	34.744	26.246	0.413
120	12.320	34.760	26.342	0.430
130	12.121	34.760	26.380	0.447
140	11.906	34.753	26.416	0.464
150	11.626	34.753	26.468	0.480
160	11.543	34.751	26.483	0.496
170	11.419	34.752	26.506	0.511
180	11.296	34.749	26.527	0.527
190	11.204	34.746	26.541	0.542
200	11.121	34.745	26.556	0.557
250	10.464	34.717	26.651	0.631
300	9.988	34.699	26.719	0.702
350	9.516	34.678	26.783	0.770
400	9.068	34.656	26.838	0.835
450	8.441	34.625	26.912	0.898
500	7.695	34.597	27.003	0.957
550	7.200	34.582	27.062	1.012
600	6.725	34.574	27.121	1.064
650	6.316	34.566	27.169	1.115
700	5.896	34.560	27.218	1.163
750	5.633	34.559	27.250	1.209
800	5.318	34.559	27.288	1.254
900	4.800	34.561	27.350	1.339
1000	4.359	34.565	27.402	1.418
1003	4.345	34.565	27.404	1.421

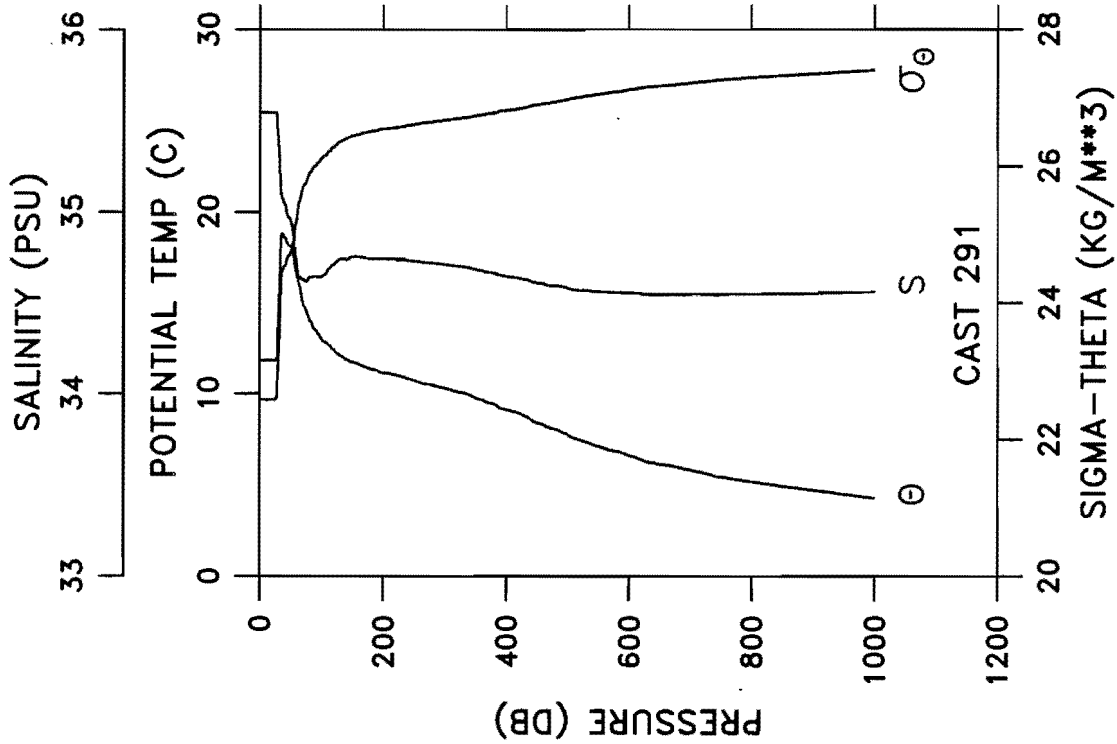


CAST GP1-99-KA-0281 DATE 16 FEB 99 TIME 0705 GMT
 LAT 08 04.1N LONG 124 59.4W WEATHER 0 SEA STATE 4
 BAROMETER 16 WIND DIR 066 T SPD 21 KT VISIBILITY 7
 CLOUD AMOUNT 0 DRY 25.0 WET 22.9 DEPTH 4607 M



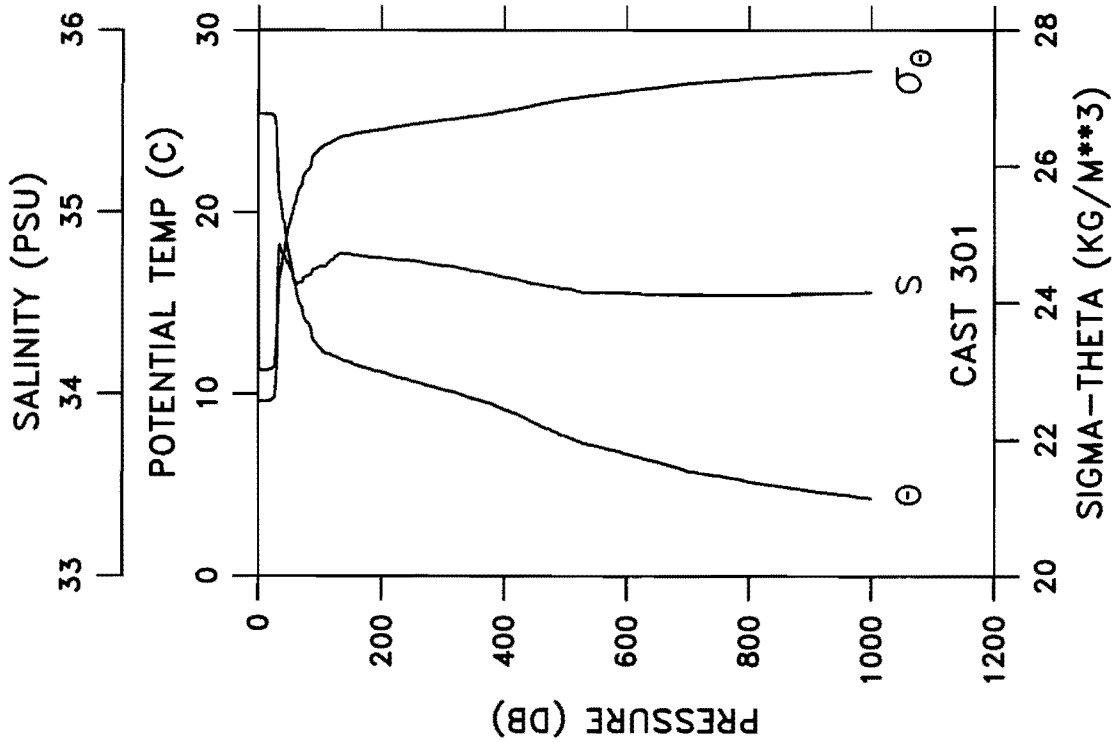
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.862	34.199	22.474	0.000
10	25.854	34.204	22.480	0.054
20	25.855	34.203	22.480	0.107
30	25.854	34.204	22.480	0.161
40	25.839	34.213	22.492	0.214
50	24.993	34.308	22.822	0.268
60	18.904	34.654	24.782	0.305
70	17.225	34.620	25.170	0.335
80	14.936	34.578	25.662	0.361
90	13.356	34.656	26.055	0.382
100	12.919	34.644	26.134	0.401
110	12.310	34.682	26.283	0.420
120	12.200	34.718	26.332	0.437
130	11.898	34.737	26.405	0.454
140	11.611	34.722	26.447	0.470
150	11.406	34.719	26.483	0.486
160	11.338	34.730	26.504	0.502
170	11.174	34.724	26.530	0.517
180	11.022	34.724	26.557	0.532
190	10.925	34.732	26.581	0.547
200	10.818	34.725	26.595	0.562
250	10.294	34.708	26.674	0.634
300	9.833	34.690	26.738	0.704
350	9.453	34.673	26.788	0.771
400	8.924	34.635	26.845	0.836
450	8.308	34.598	26.912	0.899
500	7.634	34.574	26.993	0.958
550	6.906	34.557	27.083	1.013
600	6.406	34.546	27.141	1.064
650	6.059	34.546	27.187	1.113
700	5.708	34.541	27.226	1.161
750	5.419	34.542	27.263	1.206
800	5.137	34.546	27.299	1.251
900	4.724	34.559	27.357	1.334
1000	4.269	34.562	27.410	1.414
1003	4.251	34.563	27.412	1.416

CAST GP1-99-KA-Q291 DATE 16 FEB 99 TIME 1747 GMT
 LAT 09 16.3N LONG 124 40.1W WEATHER 5 SEA STATE 4
 BAROMETER 16 WIND DIR 035 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.6 WET 24.2 DEPTH 4603 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.466	34.186	22.586	0.000
10	25.465	34.185	22.585	0.053
20	25.465	34.185	22.586	0.105
30	24.111	34.402	23.158	0.157
40	20.436	34.859	24.540	0.195
50	19.466	34.807	24.755	0.227
60	17.011	34.646	25.241	0.257
70	14.902	34.630	25.709	0.282
80	14.061	34.640	25.897	0.304
90	13.525	34.646	26.013	0.325
100	13.018	34.645	26.115	0.345
110	12.714	34.683	26.205	0.363
120	12.405	34.710	26.286	0.381
130	12.116	34.742	26.367	0.398
140	11.878	34.738	26.409	0.415
150	11.741	34.754	26.447	0.431
160	11.639	34.756	26.468	0.447
170	11.468	34.749	26.495	0.463
180	11.345	34.744	26.514	0.479
190	11.286	34.745	26.525	0.494
200	11.152	34.744	26.549	0.510
250	10.743	34.731	26.613	0.585
300	10.288	34.711	26.677	0.657
350	9.776	34.684	26.744	0.727
400	9.130	34.647	26.821	0.794
450	8.422	34.611	26.904	0.858
500	7.771	34.581	26.979	0.918
550	7.135	34.562	27.055	0.974
600	6.611	34.555	27.121	1.027
650	6.122	34.542	27.176	1.077
700	5.826	34.548	27.217	1.125
750	5.456	34.547	27.262	1.171
800	5.174	34.548	27.297	1.215
900	4.721	34.551	27.351	1.299
1000	4.289	34.561	27.407	1.378
1500	2.770	34.607	27.592	1.715
2000	1.947	34.647	27.693	1.982
2500	1.647	34.666	27.731	2.219
3000	1.461	34.675	27.753	2.451
3500	1.252	34.685	27.775	2.675
4000	1.106	34.691	27.790	2.894
4107	1.090	34.692	27.792	2.941

CAST GP1-99-KA-0301 DATE 17 FEB 99 TIME 0201 GMT
 LAT 10 04.4N LONG 124 25.0W WEATHER 5 SEA STATE 4
 BAROMETER 15 WIND DIR 036 T SPD 21 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.0 WET 23.5 DEPTH 4653 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.397	34.134	22.568	0.000
10	25.402	34.130	22.564	0.053
20	25.374	34.137	22.577	0.105
30	24.332	34.332	23.039	0.157
40	19.534	34.765	24.706	0.194
50	17.592	34.696	25.140	0.224
60	15.949	34.613	25.462	0.251
70	14.785	34.614	25.722	0.274
80	13.902	34.648	25.936	0.296
90	12.893	34.680	26.167	0.316
100	12.502	34.700	26.260	0.334
110	12.230	34.703	26.315	0.351
120	12.104	34.737	26.365	0.368
130	11.965	34.765	26.414	0.385
140	11.816	34.769	26.445	0.401
150	11.727	34.766	26.459	0.417
160	11.577	34.761	26.484	0.433
170	11.478	34.754	26.497	0.449
180	11.382	34.751	26.512	0.464
190	11.276	34.748	26.529	0.480
200	11.230	34.746	26.536	0.495
250	10.712	34.730	26.617	0.571
300	10.250	34.703	26.678	0.643
350	9.752	34.673	26.739	0.713
400	9.165	34.640	26.810	0.780
450	8.425	34.604	26.899	0.844
500	7.724	34.578	26.984	0.904
550	7.190	34.556	27.043	0.960
600	6.722	34.551	27.104	1.014
650	6.288	34.547	27.158	1.065
700	5.790	34.542	27.217	1.113
750	5.542	34.541	27.247	1.160
800	5.201	34.542	27.289	1.204
900	4.715	34.548	27.349	1.289
1000	4.294	34.557	27.403	1.369
1005	4.272	34.557	27.406	1.373

CAST GP1-99-KA-0011 LAT 08 58.5N LONG 140 16.2W CAST GP1-99-KA-0031 LAT 07 00.9N LONG 140 03.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
25.	25.660	34.025	25.654	22.406	3.	25.979	34.357	25.979	22.557
41.	25.041	34.078	25.032	22.654	9.	25.904	34.357	25.903	22.580
61.	13.854	34.443	13.845	25.785	25.	25.820	34.360	25.815	22.611
150.	11.255	34.739	11.236	26.529	42.	25.832	34.380	25.823	22.627
399.	9.112	34.637	9.068	26.823	59.	23.668	34.684	23.656	23.548
601.	6.709	34.539	6.653	27.102	101.	18.097	34.628	18.080	24.957
801.	5.268	34.547	5.201	27.290	150.	12.249	34.682	12.229	26.300
1004.	4.313	34.565	4.234	27.413	400.	9.298	34.660	9.254	26.813
					603.	6.976	34.572	6.918	27.094
					799.	5.466	34.555	5.398	27.275

CAST GP1-99-KA-0021 LAT 08 00.3N LONG 140 09.7W CAST GP1-99-KA-0041 LAT 06 00.6N LONG 139 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	25.844	34.344	25.843	22.589	3.	25.737	34.171	25.736	22.491
10.	25.848	34.344	25.846	22.588	10.	25.736	34.169	25.733	22.491
25.	25.846	34.343	25.840	22.590	25.	25.407	34.199	25.402	22.615
39.	25.792	34.347	25.783	22.604	60.	23.988	34.570	23.976	23.326
61.	15.571	34.400	15.561	25.387	100.	23.833	34.640	23.812	23.426
152.	10.949	34.713	10.931	26.566	149.	19.429	34.789	19.402	24.753
400.	8.865	34.640	8.822	26.866	399.	9.357	34.666	9.312	26.807
599.	6.840	34.568	6.784	27.108	601.	7.061	34.572	7.003	27.082
802.	5.423	34.553	5.355	27.280	800.	5.438	34.551	5.370	27.276
1002.	4.532	34.563	4.452	27.390	1003.	4.478	34.565	4.398	27.397

CAST GP1-99-KA-0051 LAT 04 56.5N LONG 139 53.1W CAST GP1-99-KA-0071 LAT 03 00.4N LONG 140 15.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.319	34.017	26.319	22.194	2.	26.187	34.161	26.187	22.343
10.	26.292	34.017	26.290	22.203	10.	26.138	34.173	26.136	22.370
27.	26.173	34.012	26.167	22.236	25.	26.057	34.186	26.052	22.404
42.	25.535	34.131	25.526	22.548	42.	24.776	34.324	24.767	22.921
59.	24.485	34.175	24.473	22.874	61.	24.269	34.467	24.256	23.163
100.	23.018	34.671	22.998	23.692	100.	21.929	34.632	21.910	23.948
149.	21.970	34.701	21.941	24.006	151.	13.864	34.724	13.843	26.004
400.	9.070	34.653	9.026	26.843	202.	12.750	34.883	12.723	26.357
600.	7.017	34.577	6.960	27.091	400.	9.514	34.677	9.469	26.790
800.	5.352	34.553	5.284	27.288	600.	6.701	34.556	6.645	27.125
1002.	4.546	34.563	4.466	27.389	801.	5.604	34.547	5.535	27.252
					1002.	4.922	34.550	4.839	27.338

CAST GP1-99-KA-0061 LAT 04 00.3N LONG 140 06.2W CAST GP1-99-KA-0081 LAT 02 05.7N LONG 140 24.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.160	34.105	26.159	22.310	3.	25.791	34.255	25.790	22.539
10.	26.159	34.104	26.157	22.310	10.	25.795	34.255	25.793	22.538
25.	25.819	34.109	25.814	22.428	26.	25.700	34.263	25.695	22.572
39.	24.930	34.263	24.922	22.813	40.	24.136	34.550	24.127	23.265
60.	24.423	34.410	24.411	23.076	61.	22.785	34.570	22.772	23.676
102.	22.525	34.541	22.505	23.733	100.	18.455	34.807	18.438	25.012
149.	18.686	34.781	18.659	24.936	149.	13.324	34.881	13.303	26.242
400.	8.999	34.650	8.955	26.852	201.	12.727	34.881	12.700	26.362
601.	6.809	34.571	6.753	27.115	1000.	4.921	34.549	4.838	27.337
801.	5.669	34.549	5.599	27.246	2000.	2.373	34.637	2.231	27.662
1003.	4.708	34.557	4.626	27.365	2999.	1.730	34.671	1.508	27.747
					4003.	1.421	34.693	1.104	27.792

CAST GP1-99-KA-0091 LAT 01 00.1N LONG 139 59.1W										CAST GP1-99-KA-0111 LAT 00 59.4S LONG 139 54.6W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	24.336	34.495	24.336	23.162	3.	22.733	34.790	22.732	23.853										
10.	24.315	34.500	24.313	23.170	10.	22.665	34.786	22.663	23.869										
25.	24.049	34.510	24.044	23.260	25.	22.041	34.775	22.036	24.037										
40.	23.409	34.557	23.400	23.484	40.	21.601	34.852	21.593	24.222										
60.	22.201	34.668	22.189	23.910	59.	21.494	35.120	21.482	24.447										
100.	15.722	34.938	15.707	25.762	102.	18.829	35.469	18.811	25.428										
150.	13.051	34.881	13.030	26.299	151.	14.983	35.136	14.960	26.083										
201.	12.514	34.872	12.487	26.397	200.	12.919	34.904	12.892	26.340										
400.	8.045	34.616	8.004	26.971	402.	8.404	34.636	8.362	26.933										
601.	6.731	34.569	6.674	27.122	602.	6.852	34.572	6.795	27.109										
800.	5.387	34.549	5.319	27.279	801.	5.466	34.548	5.397	27.270										
1002.	4.536	34.556	4.456	27.384	1001.	4.305	34.561	4.227	27.412										

CAST GP1-99-KA-0101 LAT 00 03.2N LONG 139 53.2W										CAST GP1-99-KA-0121 LAT 01 59.9S LONG 139 54.7W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	23.526	34.731	23.526	23.579	1.	22.859	34.931	22.858	23.923										
10.	23.303	34.715	23.301	23.635	11.	22.773	34.934	22.771	23.952										
24.	22.575	34.672	22.570	23.807	25.	22.762	34.959	22.757	23.973										
41.	21.089	34.702	21.081	24.235	41.	22.756	35.003	22.748	24.009										
61.	18.402	34.829	18.392	25.041	61.	22.866	35.051	22.854	24.016										
101.	15.325	34.928	15.309	25.851	99.	14.876	35.072	14.861	26.045										
150.	13.682	34.852	13.661	26.143	150.	13.316	34.962	13.295	26.302										
201.	12.860	34.909	12.833	26.356	201.	12.487	34.892	12.460	26.416										
400.	8.751	34.649	8.708	26.889	401.	8.953	34.686	8.909	26.883										
601.	6.881	34.574	6.824	27.107	600.	6.228	34.555	6.174	27.179										
799.	5.053	34.549	4.987	27.319	800.	5.294	34.543	5.226	27.287										
1001.	4.426	34.560	4.347	27.398	1001.	4.370	34.553	4.292	27.399										

CAST GP1-99-KA-0131 LAT 02 59.9S LONG 139 56.2W CAST GP1-99-KA-0151 LAT 05 01.3S LONG 124 56.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.764	35.389	26.764	23.088	3.	26.410	35.108	26.410	22.987
11.	26.742	35.388	26.740	23.096	11.	26.421	35.106	26.419	22.984
25.	26.569	35.379	26.563	23.145	25.	26.231	35.105	26.225	23.046
40.	25.319	35.272	25.311	23.452	41.	24.599	35.202	24.590	23.609
60.	23.852	35.238	23.839	23.920	99.	15.060	35.032	15.045	25.996
101.	16.946	35.267	16.929	25.736	150.	12.427	34.902	12.407	26.436
150.	13.404	35.011	13.383	26.324	200.	11.640	34.850	11.615	26.548
400.	8.986	34.685	8.943	26.881	400.	8.661	34.663	8.618	26.915
600.	6.494	34.565	6.438	27.153	600.	6.621	34.572	6.565	27.141
799.	4.939	34.539	4.874	27.324	801.	5.099	34.541	5.032	27.308
1001.	4.127	34.559	4.050	27.430	1002.	4.225	34.553	4.147	27.415

CAST GP1-99-KA-0141 LAT 03 59.9S LONG 132 28.7W CAST GP1-99-KA-0161 LAT 03 59.8S LONG 124 55.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.100	35.513	26.099	23.392	3.	26.103	35.074	26.103	23.058
11.	26.108	35.512	26.105	23.390	10.	26.108	35.073	26.105	23.057
26.	26.116	35.512	26.111	23.388	25.	26.077	35.077	26.071	23.072
41.	25.182	35.439	25.173	23.615	40.	23.494	35.113	23.486	23.866
60.	24.324	34.904	24.312	23.869	60.	19.086	35.423	19.075	25.313
100.	15.088	35.082	15.073	26.012	100.	13.376	34.967	13.363	26.297
150.	13.286	34.953	13.265	26.304	150.	12.710	34.908	12.690	26.384
400.	9.999	34.742	9.953	26.760	201.	12.260	34.887	12.233	26.457
799.	5.571	34.547	5.502	27.257	400.	9.315	34.704	9.270	26.842
1001.	4.684	34.552	4.603	27.365	600.	6.536	34.569	6.481	27.149
					800.	5.003	34.539	4.937	27.317
					1002.	4.115	34.554	4.039	27.427

CAST GP1-99-KA-0171 LAT 02 59.9S LONG 124 55.5W								CAST GP1-99-KA-0191 LAT 00 59.9S LONG 124 35.5W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
2.	26.324	35.046	26.323	22.969	2.	23.795	34.851	23.795	23.592	2.	23.795	34.851	23.795	23.592	
10.	26.099	35.041	26.097	23.037	10.	23.770	34.861	23.768	23.605	10.	23.770	34.861	23.768	23.605	
25.	25.978	35.047	25.973	23.076	25.	22.738	35.063	22.733	24.057	25.	22.738	35.063	22.733	24.057	
39.	23.640	35.345	23.632	24.007	41.	21.250	35.131	21.243	24.524	41.	21.250	35.131	21.243	24.524	
60.	16.213	35.131	16.204	25.797	61.	18.317	35.287	18.306	25.421	61.	18.317	35.287	18.306	25.421	
100.	13.835	34.990	13.820	26.219	101.	13.864	35.027	13.849	26.240	101.	13.864	35.027	13.849	26.240	
150.	12.873	34.915	12.853	26.359	150.	13.247	34.963	13.226	26.320	150.	13.247	34.963	13.226	26.320	
200.	12.384	34.890	12.357	26.437	200.	12.785	34.930	12.757	26.389	200.	12.785	34.930	12.757	26.389	
401.	8.818	34.674	8.774	26.900	379.	8.849	34.664	8.808	26.885	379.	8.849	34.664	8.808	26.885	
600.	6.500	34.567	6.445	27.154	601.	7.092	34.582	7.034	27.085	601.	7.092	34.582	7.034	27.085	
800.	5.231	34.546	5.164	27.296	801.	5.596	34.550	5.527	27.256	801.	5.596	34.550	5.527	27.256	
1000.	4.397	34.556	4.318	27.399	1002.	4.368	34.556	4.289	27.403	1002.	4.368	34.556	4.289	27.403	

CAST GP1-99-KA-0181 LAT 02 00.5S LONG 124 53.7W								CAST GP1-99-KA-0201 LAT 00 11.3S LONG 124 21.8W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
2.	25.150	34.999	25.150	23.298	2.	24.114	34.806	24.114	23.462	2.	24.114	34.806	24.114	23.462	
10.	25.127	34.999	25.125	23.304	10.	23.493	34.807	23.491	23.647	10.	23.493	34.807	23.491	23.647	
26.	22.732	34.974	22.727	24.007	25.	21.923	35.063	21.918	24.292	25.	21.923	35.063	21.918	24.292	
41.	19.382	35.156	19.375	25.042	41.	19.889	35.199	19.882	24.938	41.	19.889	35.199	19.882	24.938	
60.	15.957	35.125	15.948	25.854	60.	16.331	35.083	16.321	25.734	60.	16.331	35.083	16.321	25.734	
100.	14.021	35.005	14.006	26.192	99.	14.548	34.937	14.533	26.025	99.	14.548	34.937	14.533	26.025	
151.	13.153	34.935	13.132	26.318	150.	13.204	34.899	13.183	26.279	150.	13.204	34.899	13.183	26.279	
201.	12.482	34.892	12.455	26.419	201.	12.447	34.891	12.420	26.426	201.	12.447	34.891	12.420	26.426	
400.	8.381	34.643	8.339	26.943	401.	8.818	34.661	8.775	26.889	401.	8.818	34.661	8.775	26.889	
600.	6.964	34.578	6.906	27.099	601.	6.933	34.576	6.876	27.103	601.	6.933	34.576	6.876	27.103	
801.	5.442	34.547	5.374	27.272	801.	5.412	34.548	5.344	27.277	801.	5.412	34.548	5.344	27.277	
1002.	4.246	34.561	4.168	27.420	1002.	4.362	34.559	4.283	27.406	1002.	4.362	34.559	4.283	27.406	

CAST GP1-99-KA-0211 LAT 01 00.1N LONG 124 44.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	23.341	34.639	23.341	23.564	2.	26.032	34.154	26.032	22.388
11.	23.121	34.635	23.119	23.625	11.	26.039	34.154	26.037	22.386
26.	22.301	34.794	22.296	23.979	25.	25.933	34.150	25.928	22.415
41.	21.327	34.960	21.319	24.378	41.	23.820	34.562	23.812	23.365
60.	19.624	34.832	19.613	24.733	61.	22.872	34.703	22.860	23.750
100.	14.270	34.959	14.255	26.101	100.	15.787	34.779	15.771	25.619
150.	12.669	34.882	12.649	26.371	150.	11.700	34.711	11.681	26.423
201.	11.855	34.837	11.829	26.498	200.	10.357	34.697	10.333	26.660
400.	8.572	34.648	8.530	26.917	400.	8.312	34.630	8.271	26.944
602.	7.160	34.582	7.102	27.077	600.	6.311	34.555	6.256	27.169
801.	5.412	34.546	5.344	27.276	801.	5.065	34.553	4.999	27.319
1003.	4.410	34.559	4.331	27.400					

CAST GP1-99-KA-0231 LAT 02 59.9N LONG 125 15.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.032	34.154	26.032	22.388
11.	26.039	34.154	26.037	22.386
25.	25.933	34.150	25.928	22.415
41.	23.820	34.562	23.812	23.365
61.	22.872	34.703	22.860	23.750
100.	15.787	34.779	15.771	25.619
150.	11.700	34.711	11.681	26.423
200.	10.357	34.697	10.333	26.660
400.	8.312	34.630	8.271	26.944
600.	6.311	34.555	6.256	27.169
801.	5.065	34.553	4.999	27.319

CAST GP1-99-KA-0221 LAT 01 57.8N LONG 125 04.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	24.957	34.383	24.955	22.890	3.	26.243	34.014	26.242	22.215
40.	22.699	34.802	22.691	23.868	10.	26.088	34.010	26.086	22.262
59.	19.534	34.746	19.523	24.687	25.	26.059	34.008	26.054	22.270
101.	13.782	34.931	13.768	26.183	40.	25.972	34.000	25.963	22.293
149.	12.874	34.903	12.854	26.347	61.	22.931	34.723	22.919	23.744
202.	12.020	34.832	11.993	26.460	101.	14.690	34.691	14.675	25.803
401.	8.221	34.634	8.180	26.958	150.	11.671	34.729	11.652	26.446
601.	6.895	34.574	6.838	27.105	202.	10.405	34.704	10.381	26.655
800.	5.507	34.547	5.438	27.263	401.	8.566	34.636	8.524	26.909
1001.	4.478	34.559	4.399	27.393	600.	6.495	34.564	6.440	27.151
					800.	5.151	34.553	5.085	27.311
					1002.	4.214	34.568	4.137	27.428

CAST GP1-99-KA-0241 LAT 04 00.2N LONG 125 07.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.243	34.014	26.242	22.215
10.	26.088	34.010	26.086	22.262
25.	26.059	34.008	26.054	22.270
40.	25.972	34.000	25.963	22.293
61.	22.931	34.723	22.919	23.744
101.	14.690	34.691	14.675	25.803
150.	11.671	34.729	11.652	26.446
202.	10.405	34.704	10.381	26.655
401.	8.566	34.636	8.524	26.909
600.	6.495	34.564	6.440	27.151
800.	5.151	34.553	5.085	27.311
1002.	4.214	34.568	4.137	27.428

CAST GP1-99-KA-0251 LAT 05 20.7N LONG 124 57.6W CAST GP1-99-KA-0271 LAT 07 00.0N LONG 125 23.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	26.332	33.920	26.331	22.118	2.	26.162	34.041	26.161	22.260
11.	26.309	33.928	26.307	22.129	11.	25.860	34.038	25.858	22.354
25.	25.605	34.282	25.600	22.618	26.	25.743	34.213	25.737	22.523
40.	23.444	34.683	23.436	23.568	41.	25.134	34.274	25.126	22.740
60.	21.189	34.826	21.178	24.315	59.	18.378	34.629	18.368	24.896
102.	15.146	34.727	15.130	25.733	99.	13.131	34.718	13.117	26.152
150.	12.036	34.745	12.017	26.391	154.	11.648	34.745	11.628	26.463
200.	11.232	34.739	11.207	26.536	200.	11.190	34.739	11.165	26.543
401.	8.737	34.643	8.694	26.888	401.	9.076	34.653	9.032	26.841
601.	6.399	34.563	6.344	27.163	600.	6.735	34.571	6.679	27.125
800.	5.221	34.554	5.154	27.304	800.	5.344	34.558	5.277	27.292
1001.	4.304	34.567	4.226	27.419	1002.	4.436	34.565	4.356	27.403

CAST GP1-99-KA-0261 LAT 05 59.6N LONG 125 14.6W CAST GP1-99-KA-0281 LAT 08 04.1N LONG 124 59.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.060	34.091	26.060	22.332	2.	25.856	34.209	25.855	22.483
10.	26.064	34.092	26.062	22.334	10.	25.857	34.209	25.854	22.483
25.	25.485	34.262	25.479	22.642	25.	25.860	34.208	25.855	22.483
40.	22.833	34.736	22.825	23.795	40.	25.809	34.213	25.800	22.499
60.	20.017	34.786	20.006	24.597	60.	17.431	34.626	17.421	25.124
151.	11.722	34.709	11.703	26.417	99.	12.620	34.656	12.606	26.201
199.	10.939	34.729	10.915	26.582	150.	11.368	34.719	11.349	26.493
400.	9.002	34.653	8.959	26.855	202.	10.830	34.718	10.806	26.593
601.	6.717	34.569	6.660	27.126	401.	9.018	34.634	8.974	26.836
800.	5.273	34.552	5.206	27.297	599.	6.511	34.545	6.457	27.134
1003.	4.330	34.566	4.252	27.415	802.	5.208	34.545	5.141	27.298
					1002.	4.330	34.562	4.252	27.412

CAST GPI-99-KA-0291 LAT 09 16.3N LONG 124 40.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
11.	25.477	34.186	25.475	22.583
26.	20.682	34.862	20.677	24.477
41.	16.828	34.626	16.822	25.271
61.	13.974	34.633	13.965	25.915
102.	12.684	34.681	12.670	26.212
151.	11.591	34.750	11.572	26.476
200.	11.035	34.739	11.010	26.571
999.	4.345	34.562	4.266	27.409
3000.	1.683	34.675	1.462	27.752
4103.	1.419	34.691	1.092	27.792

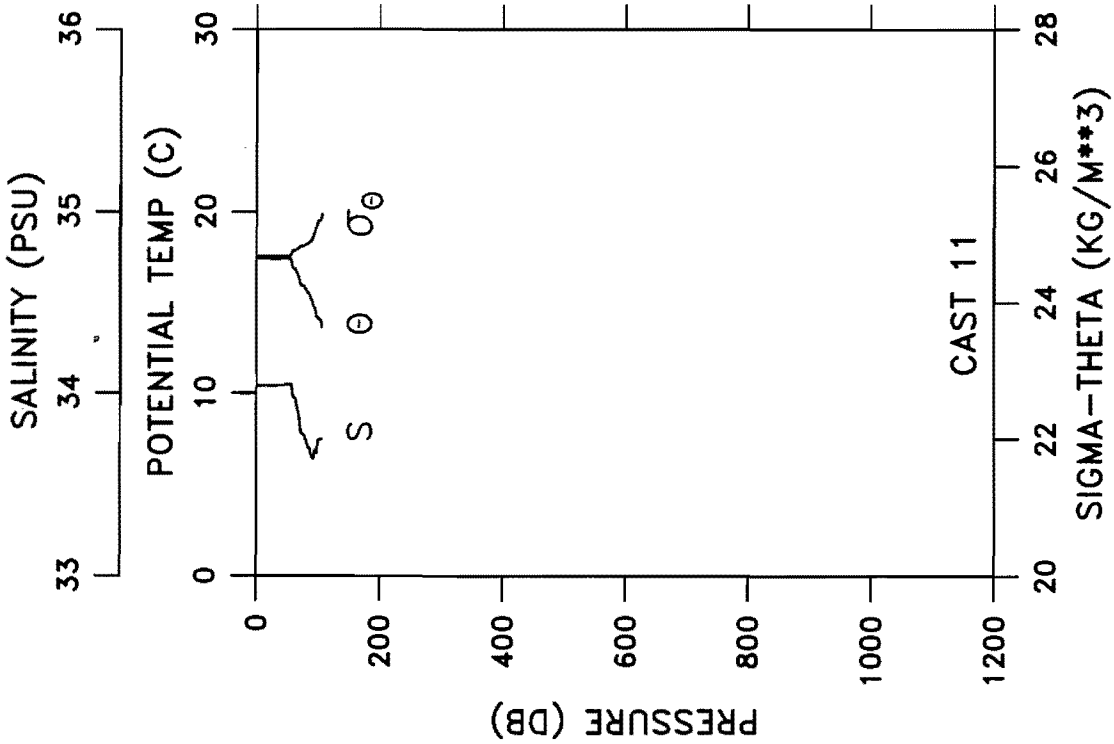
CAST GPI-99-KA-0301 LAT 10 04.4N LONG 124 25.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.381	34.129	25.381	22.569
9.	25.384	34.130	25.382	22.568
26.	20.877	34.795	20.872	24.370
40.	18.488	34.716	18.481	24.927
59.	15.178	34.593	15.169	25.621
100.	12.504	34.693	12.491	26.257
151.	11.700	34.758	11.680	26.462
200.	11.211	34.741	11.186	26.541
400.	9.167	34.634	9.123	26.812
602.	6.764	34.549	6.708	27.104
801.	5.268	34.541	5.201	27.288
1003.	4.356	34.557	4.277	27.405

GP2-99-KA
May 2–May 28, 1999
CTD and Hydrographic Data Summary

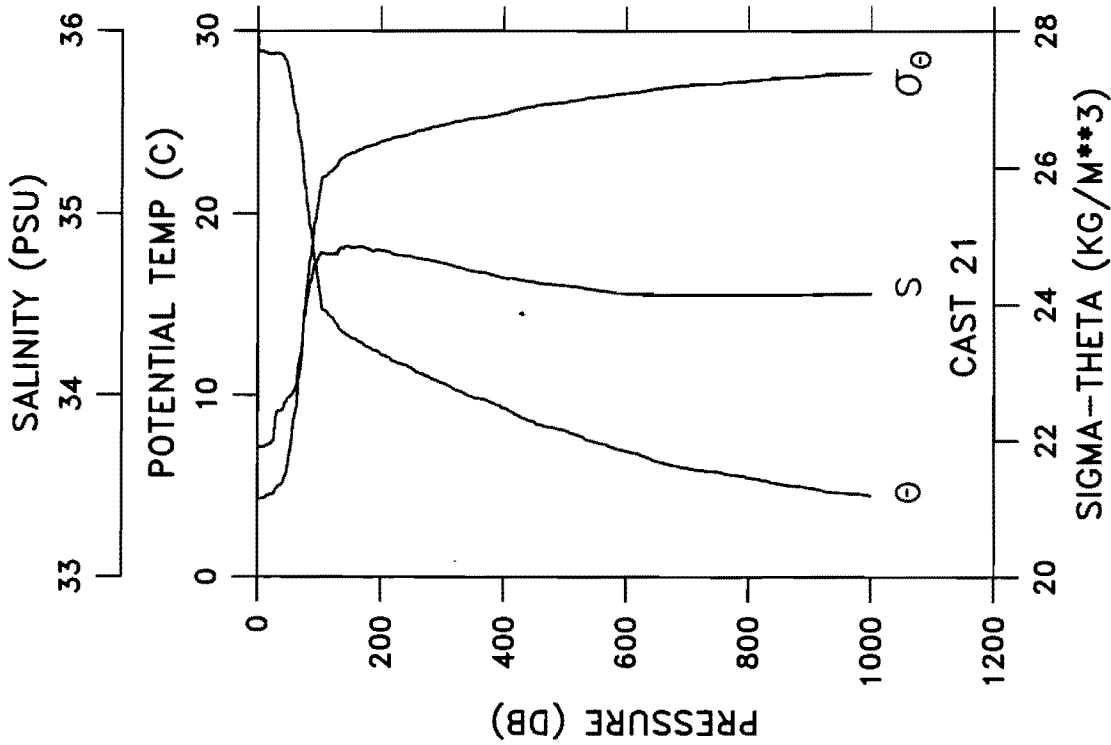
CAST GP2-99-KA-0011 DATE 02 MAY 99 TIME 0529 GMT
 LAT 26 06.6N LONG 115 27.9W WEATHER 1 SEA STATE 1
 BAROMETER 16 WIND DIR 337 T SPD 13 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 16.4 WET 14.4 DEPTH 3618 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	17.414	34.043	24.682	0.000
10	17.409	34.042	24.683	0.033
20	17.405	34.042	24.684	0.065
30	17.393	34.041	24.686	0.098
40	17.400	34.045	24.687	0.130
50	17.405	34.048	24.688	0.163
60	16.875	33.979	24.761	0.195
70	16.173	33.833	24.811	0.227
80	15.704	33.740	24.846	0.258
90	15.104	33.648	24.908	0.289
100	14.120	33.742	25.191	0.319
106	13.633	33.751	25.298	0.335

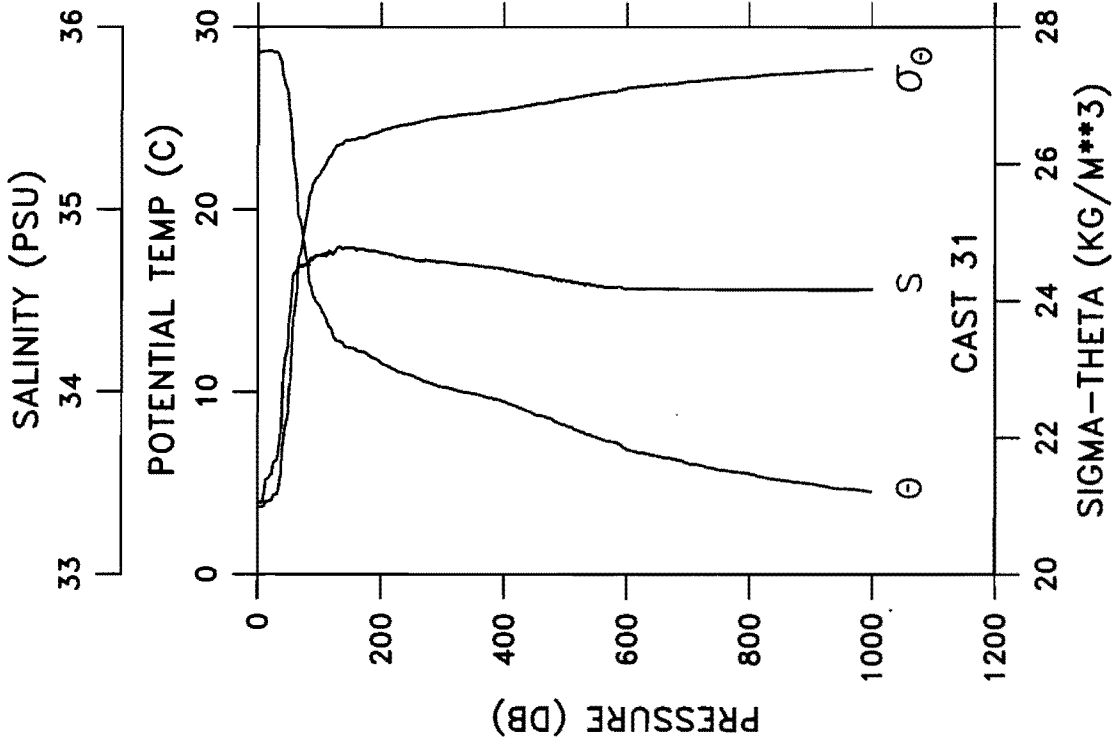


CAST GP2-99-KA-0021 DATE 07 MAY 99 TIME 0512 GMT
 LAT 08 04.0N LONG 110 15.2W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 350 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.0 WET 24.0 DEPTH 4084 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.874	33.715	21.143	0.000
10	28.841	33.716	21.156	0.066
20	28.730	33.733	21.205	0.132
30	28.801	33.888	21.298	0.198
40	28.656	33.918	21.368	0.263
50	27.761	33.987	21.713	0.326
60	25.757	34.030	22.379	0.383
70	23.771	34.228	23.126	0.435
80	20.502	34.528	24.270	0.476
90	18.017	34.687	25.029	0.509
100	15.764	34.770	25.625	0.536
110	14.637	34.779	25.881	0.558
120	14.269	34.781	25.962	0.579
130	13.833	34.795	26.064	0.599
140	13.456	34.812	26.155	0.619
150	13.195	34.813	26.210	0.637
160	13.050	34.815	26.240	0.655
170	12.866	34.815	26.277	0.673
180	12.641	34.804	26.313	0.691
190	12.487	34.797	26.338	0.708
200	12.226	34.798	26.389	0.726
250	11.478	34.762	26.503	0.807
300	10.669	34.729	26.624	0.883
350	9.889	34.683	26.724	0.955
400	9.288	34.647	26.795	1.023
450	8.529	34.626	26.899	1.087
500	8.066	34.605	26.954	1.147
550	7.429	34.581	27.028	1.205
600	6.909	34.560	27.085	1.259
650	6.353	34.554	27.155	1.311
700	5.994	34.553	27.200	1.360
750	5.776	34.553	27.228	1.407
800	5.438	34.555	27.271	1.453
900	4.907	34.557	27.335	1.539
1000	4.451	34.562	27.390	1.620
1003	4.445	34.561	27.390	1.623



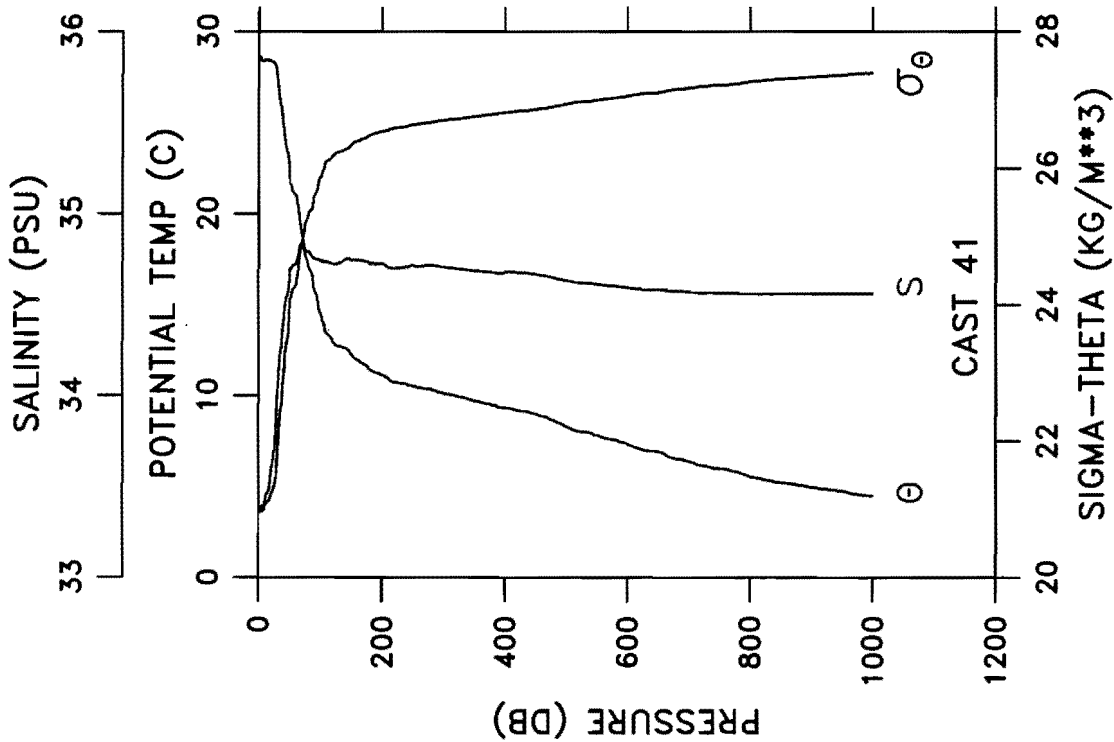
CAST GP2-99-KA-0031 DATE 07 MAY 99 TIME 1253 GMT
 LAT 06 59.9N LONG 110 03.4W WEATHER 1 SEA STATE 1
 BAROMETER 09 WIND DIR 357 T SPD 04 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 24.0 DEPTH 3709 M



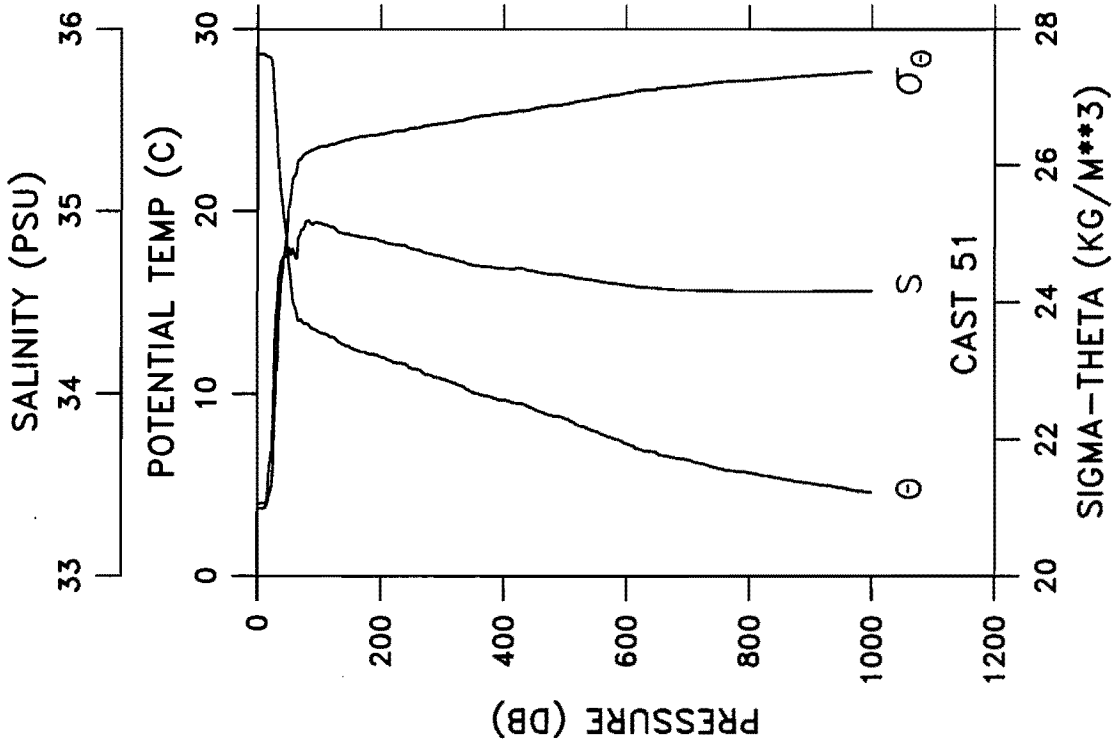
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.619	33.399	20.991	0.000
10	28.661	33.439	21.007	0.068
20	28.688	33.544	21.077	0.135
30	28.597	33.624	21.167	0.202
40	27.477	34.039	21.844	0.266
50	25.895	34.343	22.572	0.323
60	22.282	34.653	23.877	0.369
70	19.288	34.686	24.709	0.405
80	17.139	34.709	25.259	0.435
90	15.245	34.736	25.715	0.459
100	14.723	34.752	25.841	0.482
110	14.086	34.760	25.984	0.503
120	13.337	34.760	26.140	0.522
130	12.803	34.792	26.272	0.540
140	12.522	34.789	26.325	0.558
150	12.414	34.792	26.348	0.575
160	12.257	34.776	26.366	0.592
170	12.193	34.785	26.386	0.609
180	11.999	34.777	26.417	0.626
190	11.832	34.775	26.447	0.642
200	11.584	34.763	26.484	0.658
250	10.896	34.731	26.585	0.735
300	10.278	34.712	26.680	0.808
350	9.913	34.698	26.732	0.878
400	9.484	34.676	26.786	0.946
450	8.794	34.637	26.867	1.011
500	8.184	34.611	26.941	1.073
550	7.521	34.584	27.017	1.131
600	6.851	34.566	27.098	1.186
650	6.493	34.570	27.149	1.238
700	6.091	34.566	27.199	1.287
750	5.737	34.565	27.242	1.334
800	5.535	34.563	27.265	1.380
900	4.970	34.562	27.331	1.467
1000	4.515	34.563	27.383	1.549
1004	4.488	34.562	27.386	1.552

CAST GP2-99-KA-0041 DATE 07 MAY 99 TIME 1934 GMT
 LAT 06 00.1N LONG 109 58.9W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 144 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.5 WET 25.7 DEPTH 3686 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.601	33.359	20.967	0.000
10	28.433	33.428	21.074	0.068
20	28.364	33.592	21.220	0.134
30	27.528	33.994	21.793	0.198
40	24.891	34.391	22.916	0.253
50	22.494	34.629	23.799	0.298
60	21.023	34.723	24.278	0.336
70	18.879	34.826	24.920	0.369
80	17.175	34.788	25.311	0.398
90	15.876	34.754	25.587	0.424
100	14.572	34.739	25.865	0.447
110	13.453	34.735	26.097	0.467
120	13.003	34.725	26.180	0.486
130	12.705	34.727	26.241	0.504
140	12.607	34.747	26.275	0.522
150	12.256	34.742	26.340	0.540
160	11.972	34.744	26.396	0.557
170	11.753	34.739	26.433	0.573
180	11.438	34.727	26.483	0.589
190	11.230	34.722	26.517	0.605
200	11.131	34.725	26.538	0.620
250	10.537	34.717	26.638	0.695
300	10.144	34.707	26.699	0.766
350	9.722	34.687	26.755	0.836
400	9.336	34.680	26.813	0.902
450	9.012	34.668	26.856	0.967
500	8.309	34.632	26.939	1.029
550	7.834	34.613	26.995	1.088
600	7.323	34.595	27.055	1.145
650	6.900	34.582	27.104	1.198
700	6.354	34.571	27.168	1.249
750	5.972	34.565	27.213	1.298
800	5.536	34.562	27.265	1.345
900	4.976	34.561	27.330	1.432
1000	4.479	34.562	27.387	1.514
1001	4.479	34.561	27.386	1.515



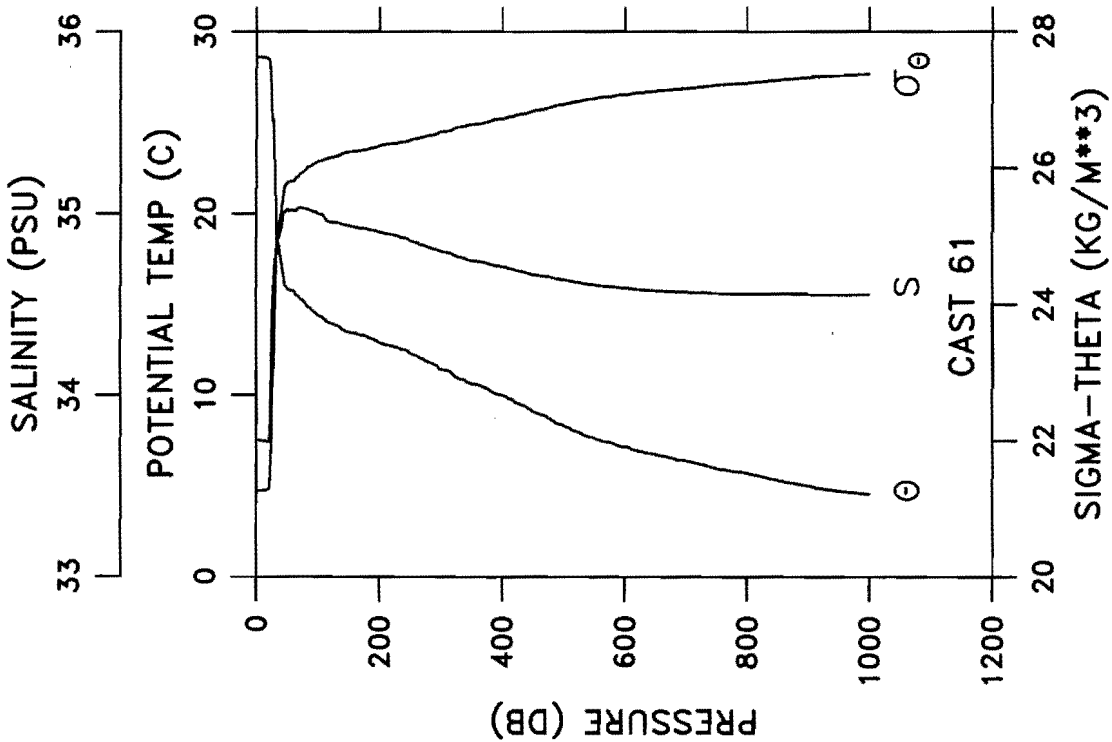
CAST GP2-99-KA-0051 DATE 08 MAY 99 TIME 0700 GMT
 LAT 05 16.2N LONG 109 57.0W WEATHER 1 SEA STATE 1
 BAROMETER 12 WIND DIR 166 T SPD 02 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 24.0 DEPTH 3874 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.620	33.399	20.990	0.000
10	28.617	33.402	20.994	0.068
20	28.452	33.626	21.216	0.135
30	25.093	34.432	22.885	0.195
40	20.626	34.730	24.391	0.236
50	17.265	34.798	25.297	0.268
60	14.789	34.764	25.837	0.291
70	14.056	34.885	26.087	0.312
80	13.816	34.942	26.181	0.330
90	13.542	34.922	26.223	0.349
100	13.370	34.933	26.267	0.367
110	13.268	34.921	26.278	0.384
120	13.096	34.911	26.305	0.402
130	12.869	34.888	26.333	0.419
140	12.700	34.876	26.357	0.436
150	12.535	34.869	26.384	0.453
160	12.397	34.862	26.406	0.470
170	12.284	34.856	26.423	0.486
180	12.183	34.849	26.437	0.503
190	12.161	34.847	26.440	0.519
200	12.019	34.835	26.458	0.535
250	11.382	34.791	26.543	0.614
300	10.806	34.750	26.616	0.690
350	10.067	34.702	26.708	0.763
400	9.666	34.684	26.762	0.832
450	9.161	34.670	26.834	0.899
500	8.641	34.646	26.898	0.962
550	7.971	34.619	26.979	1.023
600	7.272	34.593	27.060	1.079
650	6.742	34.577	27.121	1.132
700	6.401	34.568	27.159	1.183
750	5.915	34.562	27.217	1.232
800	5.698	34.559	27.242	1.279
900	5.114	34.559	27.312	1.368
1000	4.615	34.561	27.371	1.452
1500	3.027	34.602	27.565	1.806
2000	2.113	34.641	27.675	2.089
2500	1.693	34.663	27.725	2.335
3000	1.529	34.671	27.744	2.572
3500	1.261	34.683	27.773	2.799
3503	1.262	34.682	27.772	2.800

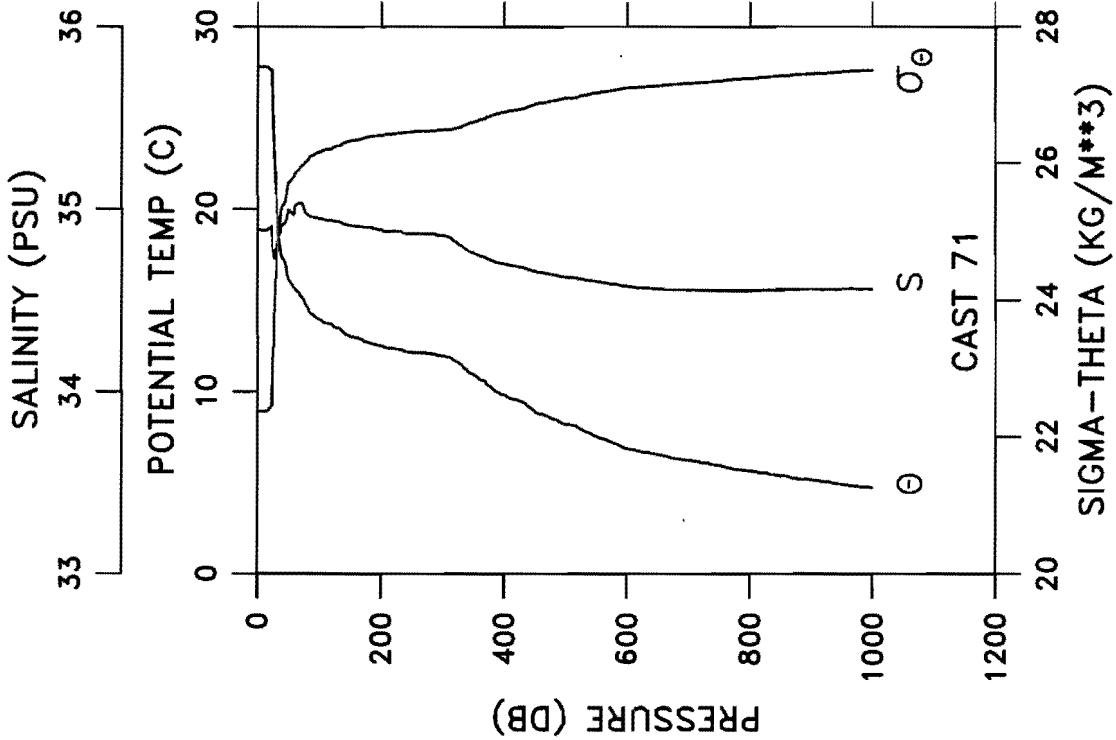
CAST GP2-99-KA-0061 DATE 09 MAY 99 TIME 0126 GMT
 LAT 04 00.0N LONG 110 02.7W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 201 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.2 WET 23.0 DEPTH 3916 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.623	33.753	21.255	0.000
10	28.607	33.748	21.257	0.065
20	28.516	33.744	21.284	0.130
30	22.017	34.753	24.027	0.185
40	17.498	34.919	25.333	0.215
50	15.901	35.023	25.789	0.238
60	15.775	35.018	25.814	0.260
70	15.381	35.034	25.914	0.282
80	15.056	35.027	25.982	0.303
90	14.712	35.013	26.046	0.323
100	14.413	34.999	26.100	0.342
110	14.230	34.982	26.125	0.362
120	13.990	34.955	26.155	0.381
130	13.865	34.951	26.178	0.399
140	13.635	34.941	26.219	0.418
150	13.488	34.933	26.243	0.436
160	13.439	34.927	26.248	0.454
170	13.345	34.921	26.263	0.472
180	13.242	34.915	26.279	0.490
190	13.106	34.908	26.301	0.508
200	12.919	34.899	26.332	0.525
250	12.321	34.851	26.412	0.611
300	11.422	34.792	26.537	0.692
350	10.641	34.742	26.639	0.768
400	10.004	34.709	26.725	0.840
450	9.125	34.666	26.837	0.908
500	8.344	34.636	26.936	0.971
550	7.660	34.610	27.018	1.029
600	7.169	34.592	27.074	1.084
650	6.731	34.578	27.123	1.137
700	6.380	34.570	27.164	1.188
750	5.946	34.563	27.215	1.236
800	5.699	34.561	27.243	1.283
900	4.989	34.558	27.326	1.372
1000	4.546	34.557	27.375	1.454
1009	4.520	34.557	27.378	1.461

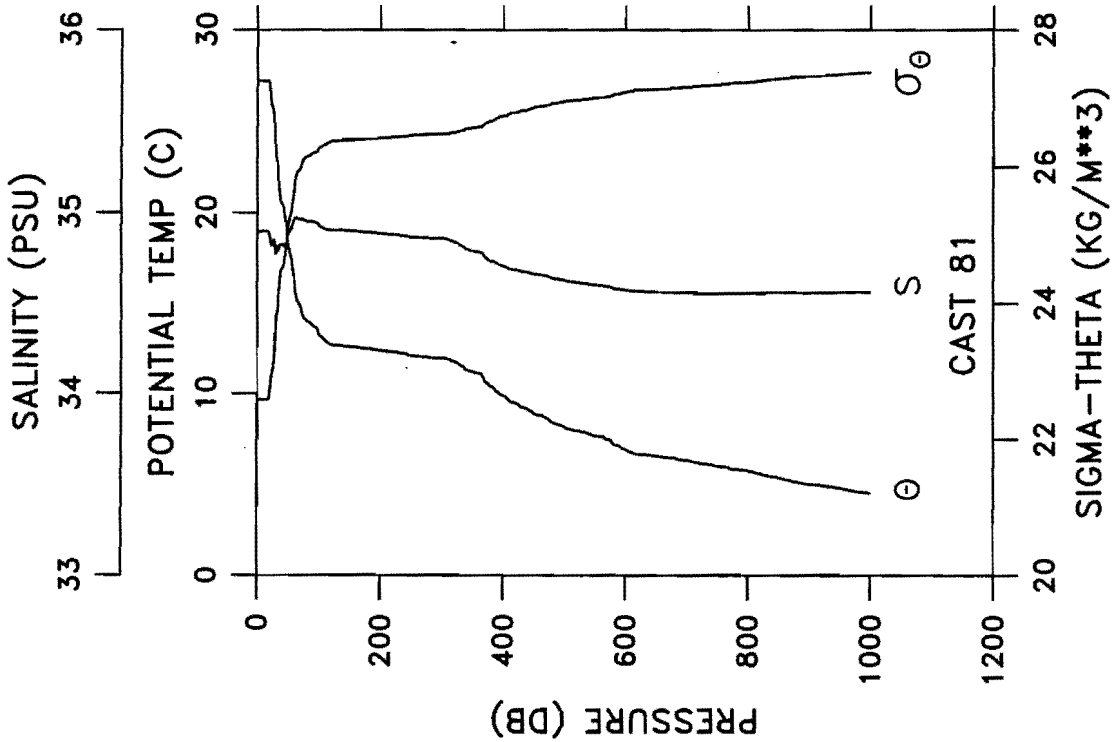


CAST GP2-99-KA-0071 DATE 09 MAY 99 TIME 0833 GMT
 LAT 03 00.2N LONG 110 06.1W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 192 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 9 DRY 26.0 WET 23.9 DEPTH 3905 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.801	34.887	22.376	0.000
10	27.792	34.882	22.376	0.055
20	27.671	34.900	22.429	0.109
30	20.856	34.784	24.370	0.155
40	17.312	34.916	25.376	0.184
50	16.112	34.994	25.718	0.209
60	15.663	35.008	25.831	0.232
70	15.229	35.031	25.946	0.253
80	14.648	34.970	26.026	0.273
90	14.192	34.954	26.112	0.293
100	13.941	34.946	26.159	0.312
110	13.734	34.939	26.196	0.330
120	13.662	34.936	26.209	0.349
130	13.450	34.931	26.248	0.367
140	13.183	34.917	26.292	0.385
150	12.991	34.909	26.324	0.402
160	12.932	34.905	26.334	0.419
170	12.803	34.901	26.356	0.436
180	12.659	34.898	26.382	0.453
190	12.561	34.891	26.397	0.470
200	12.496	34.885	26.404	0.487
250	12.130	34.865	26.460	0.569
300	11.936	34.854	26.488	0.650
350	10.954	34.761	26.598	0.729
400	9.811	34.700	26.750	0.801
450	8.914	34.660	26.866	0.868
500	8.193	34.628	26.953	0.929
550	7.537	34.604	27.031	0.987
600	6.841	34.577	27.108	1.041
650	6.526	34.564	27.140	1.093
700	6.219	34.556	27.174	1.143
750	5.928	34.551	27.207	1.192
800	5.629	34.551	27.245	1.239
900	5.140	34.563	27.313	1.328
1000	4.716	34.559	27.358	1.412
1002	4.710	34.559	27.359	1.414



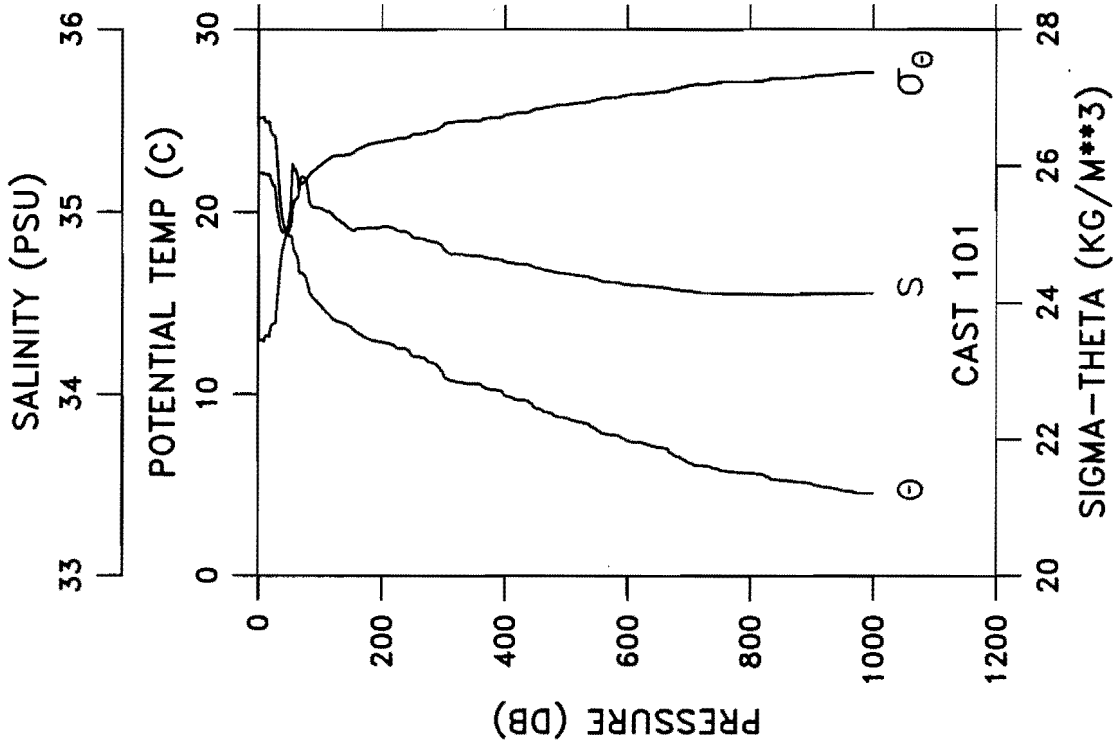
CAST GP2-99-KA-0081 DATE 09 MAY 99 TIME 1553 GMT
 LAT 02 05.6N LONG 110 10.6W WEATHER 1 SEA STATE 1
 BAROMETER 14 WIND DIR 164 T SPD 06 KT VISIBILITY 7
 CLOUD 1 AMOUNT 3 DRY 26.6 WET 24.4 DEPTH 3761 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.194	34.890	22.575	0.000
10	27.193	34.894	22.578	0.053
20	26.877	34.868	22.659	0.105
30	23.494	34.769	23.616	0.153
40	20.445	34.821	24.508	0.191
50	18.162	34.878	25.140	0.223
60	16.226	34.961	25.666	0.250
70	14.831	34.959	25.978	0.271
80	14.023	34.950	26.144	0.290
90	13.758	34.947	26.198	0.309
100	13.299	34.927	26.277	0.327
110	12.982	34.908	26.326	0.344
120	12.697	34.900	26.376	0.361
130	12.673	34.899	26.381	0.378
140	12.637	34.900	26.388	0.395
150	12.606	34.897	26.392	0.411
160	12.571	34.895	26.397	0.428
170	12.528	34.892	26.403	0.445
180	12.494	34.889	26.408	0.461
190	12.447	34.886	26.415	0.478
200	12.400	34.883	26.422	0.494
250	12.123	34.864	26.460	0.577
300	11.998	34.857	26.479	0.658
350	11.227	34.787	26.569	0.737
400	9.888	34.706	26.742	0.811
450	8.911	34.661	26.868	0.877
500	8.185	34.627	26.954	0.939
550	7.695	34.602	27.007	0.997
600	6.954	34.575	27.090	1.052
650	6.576	34.563	27.133	1.104
700	6.330	34.558	27.161	1.154
750	6.008	34.554	27.200	1.204
800	5.746	34.556	27.234	1.251
900	5.000	34.559	27.326	1.340
1000	4.532	34.561	27.381	1.423
1003	4.508	34.561	27.383	1.425

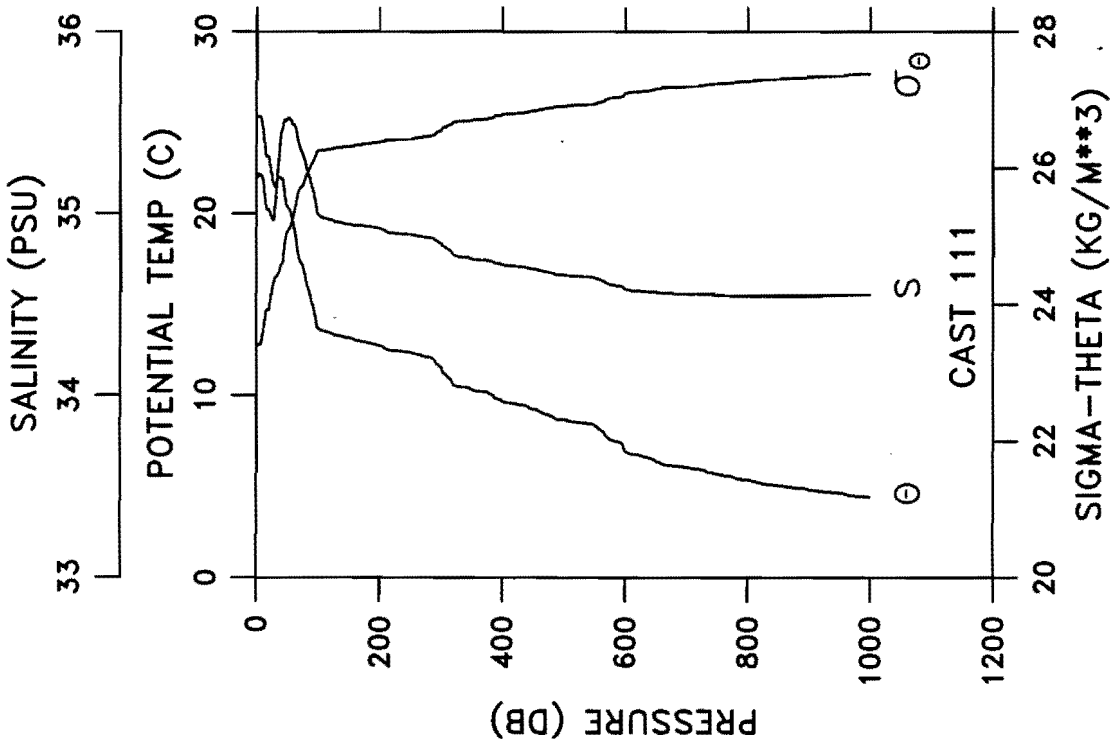
CAST GP2-99-KA-0101 DATE 10 MAY 99 TIME 0831 GMT
 LAT 00 04.4N LONG 109 59.2W WEATHER 1 SEA STATE 1
 BAROMETER 13 WIND DIR 144 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 9 DRY 24.4 WET 23.2 DEPTH 3814 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.146	35.215	23.461	0.000
10	25.040	35.207	23.487	0.044
20	24.414	35.178	23.655	0.088
30	23.007	35.020	23.949	0.130
40	19.426	34.887	24.827	0.164
50	18.682	34.975	25.084	0.194
60	17.734	35.235	25.518	0.221
70	16.648	35.193	25.747	0.244
80	15.994	35.115	25.838	0.267
90	15.216	35.024	25.944	0.288
100	14.891	35.018	26.011	0.308
110	14.502	35.002	26.083	0.328
120	14.143	34.984	26.145	0.347
130	13.984	34.955	26.156	0.366
140	13.859	34.930	26.163	0.385
150	13.672	34.903	26.181	0.404
160	13.573	34.910	26.248	0.422
170	13.168	34.911	26.291	0.440
180	13.003	34.913	26.326	0.458
190	12.912	34.912	26.343	0.475
200	12.849	34.919	26.361	0.492
250	12.099	34.861	26.463	0.576
300	11.103	34.802	26.603	0.656
350	10.581	34.761	26.664	0.729
400	9.943	34.729	26.750	0.800
450	9.264	34.695	26.837	0.867
500	8.694	34.663	26.903	0.930
550	8.029	34.628	26.978	0.991
600	7.444	34.601	27.043	1.048
650	7.088	34.588	27.082	1.103
700	6.219	34.566	27.182	1.155
750	5.799	34.552	27.225	1.203
800	5.641	34.550	27.242	1.250
900	5.071	34.551	27.311	1.339
1000	4.539	34.554	27.374	1.421
1500	2.990	34.601	27.568	1.774
2000	2.131	34.639	27.672	2.060
2500	1.719	34.659	27.720	2.309
3000	1.477	34.670	27.747	2.542
3500	1.274	34.682	27.771	2.769
3504	1.274	34.682	27.771	2.771

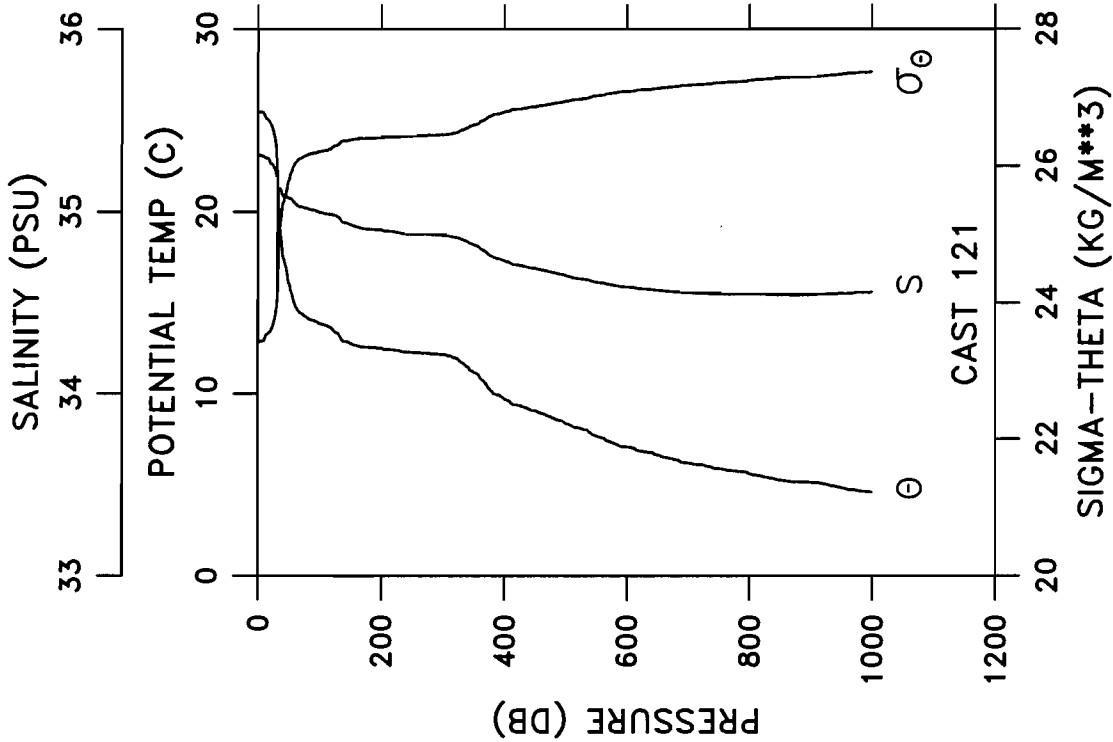


CAST GP2-99-KA-0111 DATE 12 MAY 99 TIME 0610 GMT
 LAT 01 00.1S LONG 109 48.1W WEATHER 1 SEA STATE 1
 BAROMETER 13 WIND DIR 181 T SPD 06 KT VISIBILITY 7
 CLOUD 8 AMOUNT 9 DRY 24.5 WET 22.8 DEPTH 3853 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.316	35.202	23.399	0.000
10	24.792	35.192	23.551	0.045
20	23.126	35.019	23.913	0.085
30	21.518	35.036	24.380	0.123
40	21.928	35.439	24.573	0.158
50	20.373	35.523	25.063	0.189
60	19.359	35.487	25.302	0.218
70	17.408	35.369	25.700	0.242
80	16.319	35.268	25.881	0.265
90	15.083	35.146	26.067	0.285
100	13.679	34.996	26.251	0.304
110	13.529	34.973	26.265	0.322
120	13.421	34.963	26.280	0.340
130	13.293	34.954	26.298	0.357
140	13.224	34.945	26.306	0.375
150	13.162	34.938	26.313	0.392
160	13.027	34.933	26.336	0.410
170	12.975	34.932	26.346	0.427
180	12.901	34.928	26.358	0.444
190	12.826	34.923	26.369	0.461
200	12.729	34.917	26.383	0.478
250	12.372	34.884	26.427	0.561
300	11.529	34.833	26.549	0.643
350	10.316	34.749	26.702	0.715
400	9.666	34.717	26.787	0.785
450	9.255	34.693	26.837	0.851
500	8.684	34.660	26.902	0.914
550	8.380	34.645	26.937	0.976
600	6.948	34.582	27.097	1.033
650	6.408	34.565	27.156	1.084
700	6.077	34.557	27.193	1.133
750	5.713	34.549	27.233	1.181
800	5.396	34.544	27.267	1.226
900	4.841	34.546	27.333	1.313
1000	4.449	34.552	27.382	1.394
1004	4.438	34.553	27.384	1.398



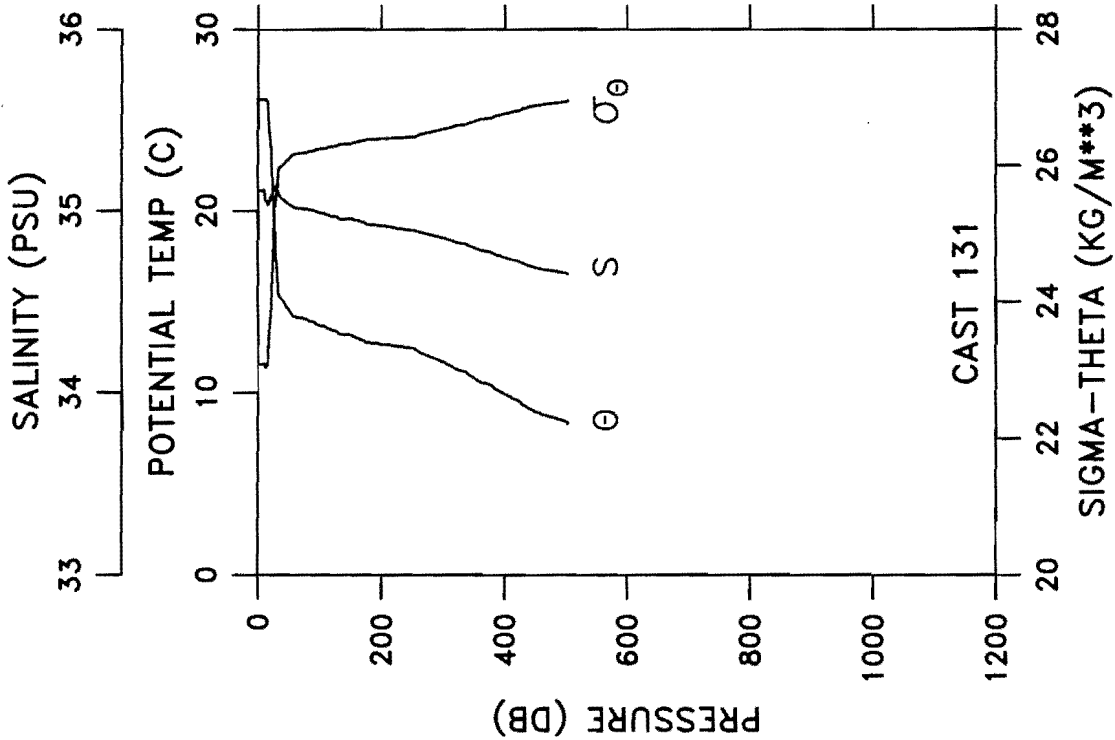
CAST GP2-99-KA-0121 DATE 12 MAY 99 TIME 1357 GMT
 LAT 02 00.85 LONG 109 59.2W WEATHER 1 SEA STATE 1
 BAROMETER 12 WIND DIR 147 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.3 WET 23.0 DEPTH 3943 M



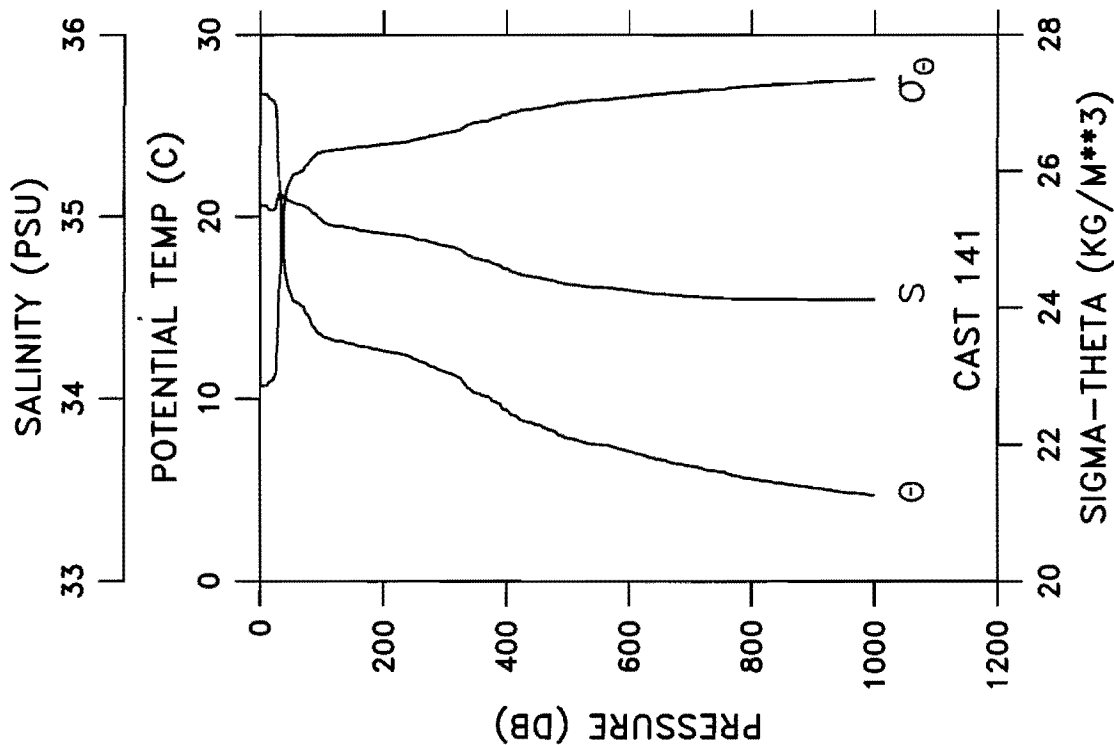
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.468	35.313	23.437	0.000
10	25.360	35.303	23.462	0.044
20	24.868	35.269	23.587	0.088
30	23.497	35.203	23.945	0.130
40	17.512	35.089	25.461	0.160
50	16.062	35.074	25.791	0.184
60	14.801	35.045	26.051	0.205
70	14.410	35.027	26.121	0.224
80	14.166	35.018	26.166	0.243
90	14.017	35.009	26.191	0.261
100	13.850	34.996	26.216	0.280
110	13.762	34.989	26.229	0.298
120	13.554	34.982	26.267	0.316
130	13.265	34.970	26.317	0.333
140	12.875	34.939	26.371	0.350
150	12.760	34.928	26.386	0.367
160	12.653	34.917	26.398	0.384
170	12.579	34.907	26.405	0.400
180	12.558	34.904	26.407	0.417
190	12.534	34.902	26.410	0.434
200	12.520	34.901	26.412	0.450
250	12.280	34.876	26.439	0.533
300	12.152	34.870	26.459	0.615
350	11.197	34.817	26.598	0.695
400	9.712	34.729	26.790	0.766
450	9.065	34.689	26.864	0.831
500	8.358	34.649	26.945	0.893
550	7.653	34.613	27.022	0.951
600	7.057	34.586	27.085	1.006
650	6.615	34.569	27.132	1.058
700	6.174	34.555	27.179	1.108
750	5.871	34.549	27.213	1.157
800	5.591	34.550	27.249	1.204
900	5.122	34.544	27.300	1.293
1000	4.589	34.560	27.373	1.377
1003	4.589	34.560	27.373	1.379

CAST GP2-99-KA-0131 DATE 12 MAY 99 TIME 2022 GMT
 LAT 02 59.8S LONG 109 59.0W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 161 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.0 WET 23.9 DEPTH 3806 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.129	35.113	23.080	0.000
10	26.109	35.118	23.090	0.048
20	23.851	35.066	23.737	0.094
30	17.045	35.120	25.597	0.126
40	15.069	35.062	26.006	0.147
50	14.544	35.036	26.099	0.167
60	14.159	35.016	26.167	0.185
70	14.088	35.012	26.179	0.204
80	13.996	35.007	26.194	0.222
90	13.888	35.002	26.213	0.241
100	13.684	34.988	26.245	0.259
110	13.592	34.982	26.259	0.277
120	13.444	34.969	26.279	0.294
130	13.261	34.956	26.307	0.312
140	13.194	34.952	26.317	0.329
150	13.179	34.958	26.325	0.347
160	13.020	34.947	26.349	0.364
170	12.862	34.937	26.368	0.381
180	12.740	34.923	26.386	0.398
190	12.728	34.921	26.387	0.415
200	12.654	34.915	26.397	0.431
250	12.460	34.893	26.417	0.515
300	11.692	34.851	26.532	0.596
350	10.816	34.797	26.651	0.672
400	9.929	34.742	26.763	0.743
450	8.949	34.686	26.881	0.808
500	8.439	34.657	26.938	0.870
503	8.316	34.650	26.952	0.874

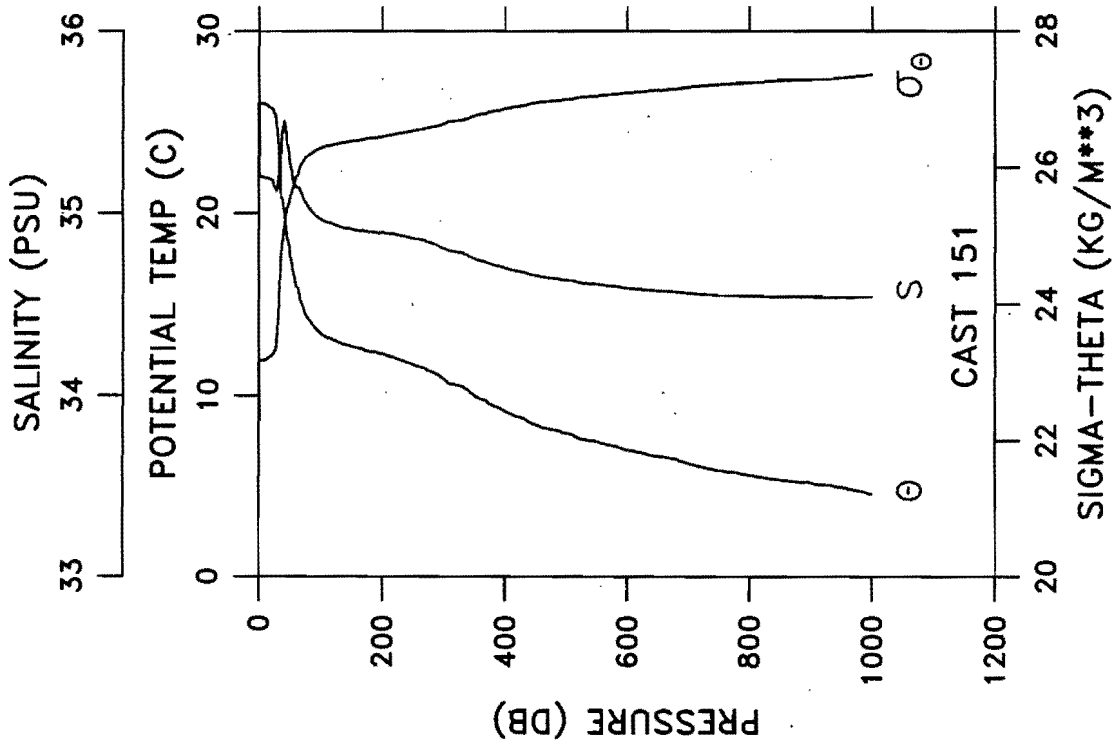


CAST GP2-99-KA-0141 DATE 13 MAY 99 TIME 0328 GMT
 LAT 04 00.0S LONG 109 59.4W WEATHER 1 SEA STATE 1
 BAROMETER 12 WIND DIR 191 T SPD 03 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 25.7 WET 23.0 DEPTH 3611 M



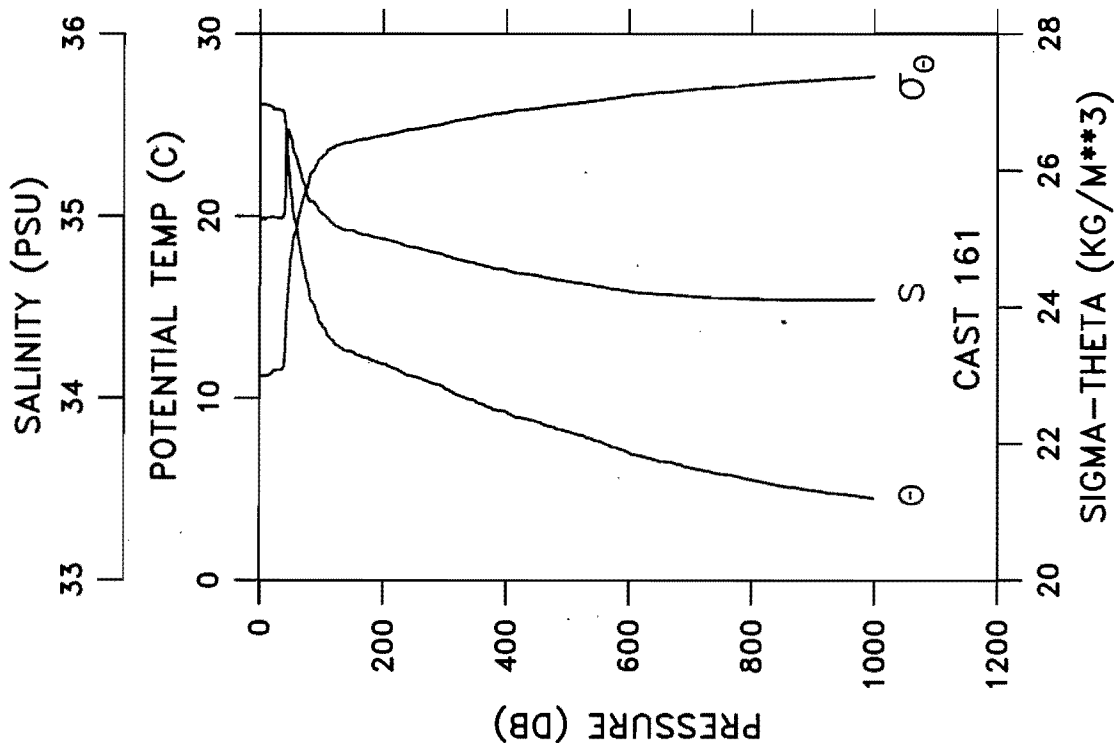
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.703	35.061	22.861	0.000
10	26.694	35.059	22.862	0.050
20	26.378	35.033	22.942	0.099
30	22.317	35.123	24.224	0.146
40	17.090	35.106	25.575	0.176
50	15.718	35.083	25.876	0.198
60	15.273	35.069	25.966	0.219
70	15.017	35.061	26.016	0.239
80	14.380	35.040	26.138	0.259
90	13.799	35.014	26.241	0.277
100	13.485	34.980	26.279	0.295
110	13.329	34.958	26.295	0.312
120	13.201	34.948	26.313	0.330
130	13.194	34.948	26.314	0.347
140	13.079	34.940	26.331	0.365
150	13.030	34.937	26.339	0.382
160	12.909	34.925	26.354	0.399
170	12.869	34.920	26.358	0.416
180	12.804	34.914	26.366	0.433
190	12.722	34.910	26.379	0.450
200	12.645	34.905	26.391	0.467
250	12.194	34.879	26.458	0.550
300	11.509	34.840	26.558	0.629
350	10.343	34.769	26.713	0.703
400	9.411	34.713	26.827	0.771
450	8.589	34.666	26.922	0.834
500	7.858	34.627	27.003	0.893
550	7.516	34.612	27.040	0.949
600	7.135	34.596	27.082	1.003
650	6.683	34.576	27.128	1.056
700	6.326	34.563	27.165	1.106
750	5.999	34.553	27.200	1.155
800	5.625	34.547	27.242	1.203
900	5.132	34.544	27.299	1.293
1000	4.733	34.545	27.345	1.378
1004	4.733	34.544	27.344	1.382

CAST GP2-99-KA-0151 DATE 13 MAY 99 TIME 1033 GMT
 LAT 04 59.3S LONG 109 59.9W WEATHER 1 SEA STATE 1
 BAROMETER 11 WIND DIR 174 T SPD 03 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 25.0 WET 23.2 DEPTH 3587 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.003	35.203	23.187	0.000
10	25.959	35.193	23.194	0.047
20	25.755	35.183	23.250	0.093
30	24.557	35.131	23.576	0.139
40	20.231	35.481	25.069	0.174
50	17.806	35.279	25.534	0.200
60	15.996	35.147	25.862	0.223
70	14.958	35.102	26.061	0.244
80	14.184	35.033	26.175	0.263
90	13.770	34.996	26.233	0.281
100	13.420	34.967	26.283	0.299
110	13.203	34.951	26.315	0.316
120	13.062	34.939	26.334	0.333
130	12.919	34.927	26.353	0.350
140	12.810	34.917	26.368	0.367
150	12.702	34.913	26.385	0.384
160	12.631	34.906	26.394	0.401
170	12.526	34.903	26.412	0.417
180	12.419	34.898	26.429	0.434
190	12.394	34.896	26.432	0.450
200	12.308	34.894	26.448	0.467
250	11.715	34.863	26.537	0.546
300	10.918	34.807	26.641	0.622
350	10.017	34.750	26.754	0.692
400	9.151	34.699	26.858	0.758
450	8.401	34.657	26.944	0.820
500	7.921	34.632	26.997	0.878
550	7.470	34.611	27.046	0.934
600	7.029	34.589	27.091	0.988
650	6.670	34.574	27.129	1.040
700	6.249	34.560	27.173	1.091
750	5.856	34.549	27.215	1.139
800	5.595	34.545	27.244	1.186
900	5.177	34.541	27.291	1.276
1000	4.549	34.541	27.362	1.362
1002	4.539	34.540	27.363	1.364

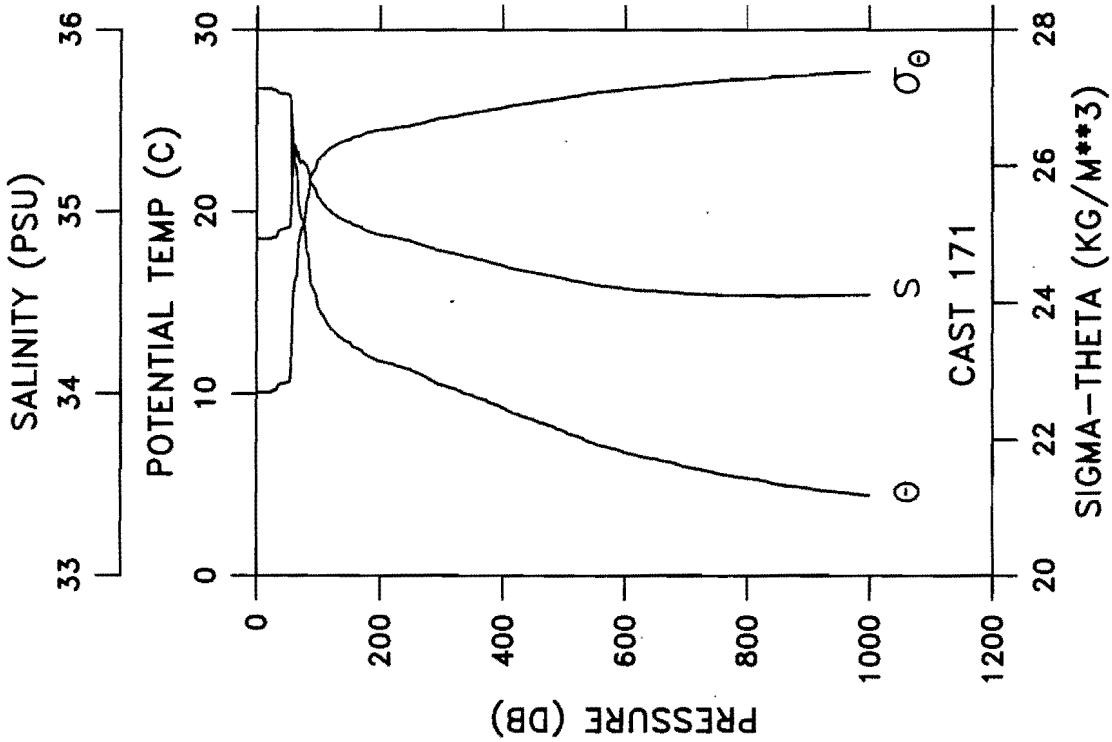
CAST GP2-99-KA-0161 DATE 13 MAY 99 TIME 1734 GMT
 LAT 05 59.5S LONG 109 58.4W WEATHER 1 SEA STATE 1
 BAROMETER 14 WIND DIR 140 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 24.8 WET 22.7 DEPTH 3787 M



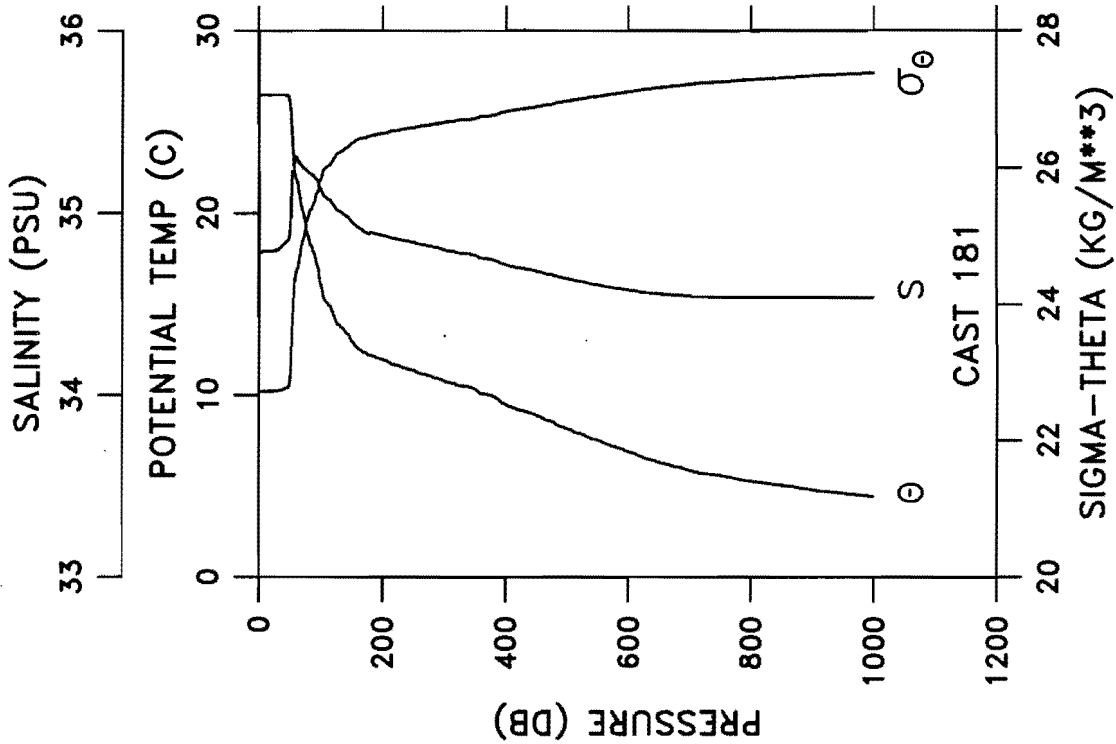
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.105	34.982	22.989	0.000
10	26.098	34.985	22.994	0.049
20	25.962	34.995	23.044	0.097
30	25.831	34.990	23.080	0.145
40	25.433	35.023	23.228	0.193
50	21.402	35.438	24.718	0.231
60	19.289	35.316	25.189	0.261
70	17.307	35.188	25.586	0.287
80	15.788	35.093	25.868	0.310
90	14.895	35.065	26.046	0.330
100	14.084	35.018	26.184	0.349
110	13.407	34.986	26.300	0.367
120	13.037	34.950	26.348	0.384
130	12.835	34.935	26.376	0.401
140	12.631	34.923	26.407	0.418
150	12.551	34.922	26.423	0.434
160	12.351	34.904	26.447	0.451
170	12.236	34.897	26.465	0.467
180	12.110	34.888	26.482	0.483
190	11.993	34.881	26.498	0.498
200	11.886	34.874	26.513	0.514
250	11.195	34.827	26.606	0.590
300	10.523	34.784	26.693	0.663
350	9.844	34.740	26.776	0.732
400	9.254	34.704	26.846	0.797
450	8.715	34.674	26.908	0.859
500	8.151	34.642	26.970	0.919
550	7.644	34.616	27.025	0.976
600	6.995	34.587	27.094	1.031
650	6.513	34.571	27.147	1.083
700	6.160	34.560	27.184	1.133
750	5.830	34.551	27.219	1.181
800	5.509	34.545	27.255	1.227
900	4.942	34.539	27.316	1.315
1000	4.482	34.545	27.373	1.399
1002	4.472	34.545	27.374	1.400

CAST GP2-99-KA-0171 DATE 14 MAY 99 TIME 0111 GMT
 LAT 06 59.6S LONG 109 57.3W WEATHER 1 SEA STATE 1
 BAROMETER 10 WIND DIR 096 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.4 WET 23.9 DEPTH 3546 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.728	34.852	22.695	0.000
10	26.728	34.850	22.693	0.051
20	26.721	34.850	22.696	0.103
30	26.637	34.859	22.729	0.154
40	26.449	34.900	22.819	0.205
50	26.415	34.910	22.838	0.256
60	23.098	35.365	24.184	0.302
70	20.019	35.269	24.963	0.336
80	18.301	35.254	25.393	0.365
90	15.851	35.149	25.897	0.388
100	14.731	35.076	26.090	0.409
110	14.159	35.035	26.181	0.428
120	13.614	34.996	26.265	0.446
130	13.293	34.974	26.314	0.463
140	13.010	34.954	26.356	0.481
150	12.846	34.941	26.379	0.497
160	12.540	34.922	26.424	0.514
170	12.402	34.912	26.444	0.530
180	12.104	34.891	26.485	0.546
190	11.929	34.879	26.509	0.562
200	11.816	34.870	26.524	0.578
250	11.340	34.837	26.587	0.654
300	10.502	34.783	26.696	0.727
350	9.932	34.746	26.765	0.796
400	9.262	34.703	26.844	0.862
450	8.595	34.665	26.921	0.924
500	7.968	34.631	26.989	0.983
550	7.277	34.598	27.064	1.039
600	6.772	34.577	27.117	1.092
650	6.427	34.564	27.153	1.143
700	5.978	34.551	27.201	1.192
750	5.624	34.543	27.239	1.239
800	5.366	34.540	27.268	1.284
900	4.806	34.539	27.332	1.371
1000	4.411	34.544	27.380	1.453
1001	4.411	34.544	27.380	1.453

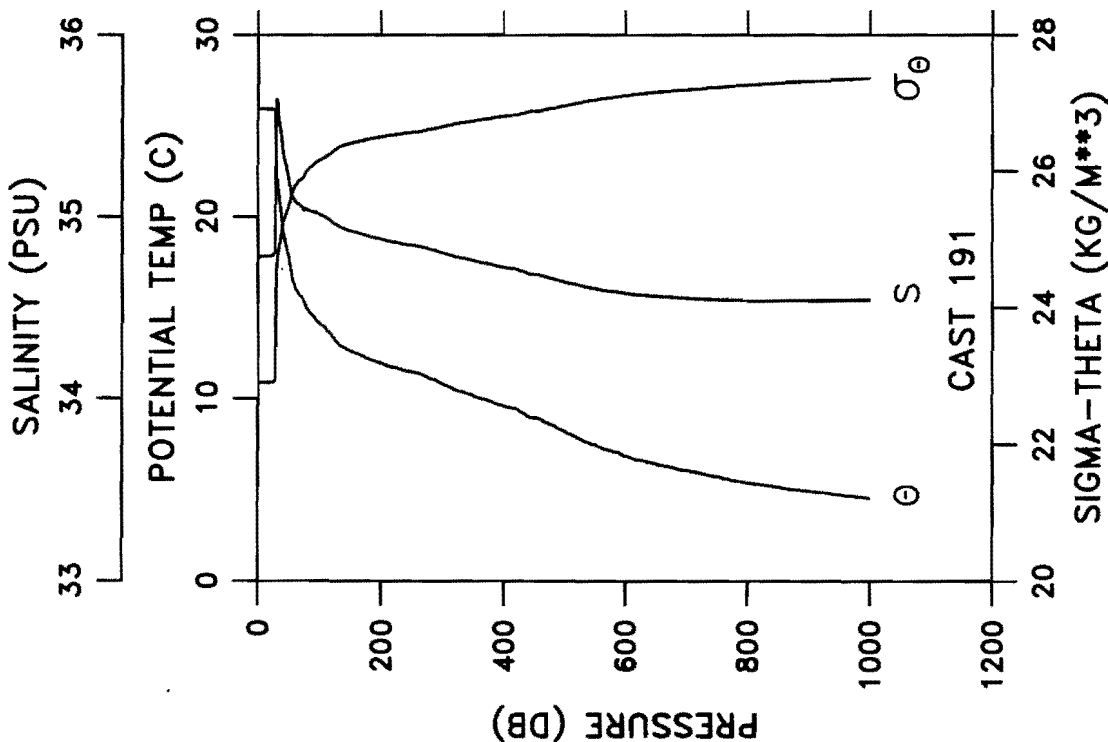


CAST GP2-99-KA-0181 DATE 14 MAY 99 TIME 1326 GMT
 LAT 07 59.1S LONG 109 59.8W WEATHER 1 SEA STATE 1
 BAROMETER 12 WIND DIR 091 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 25.2 WET 22.5 DEPTH 3503 M



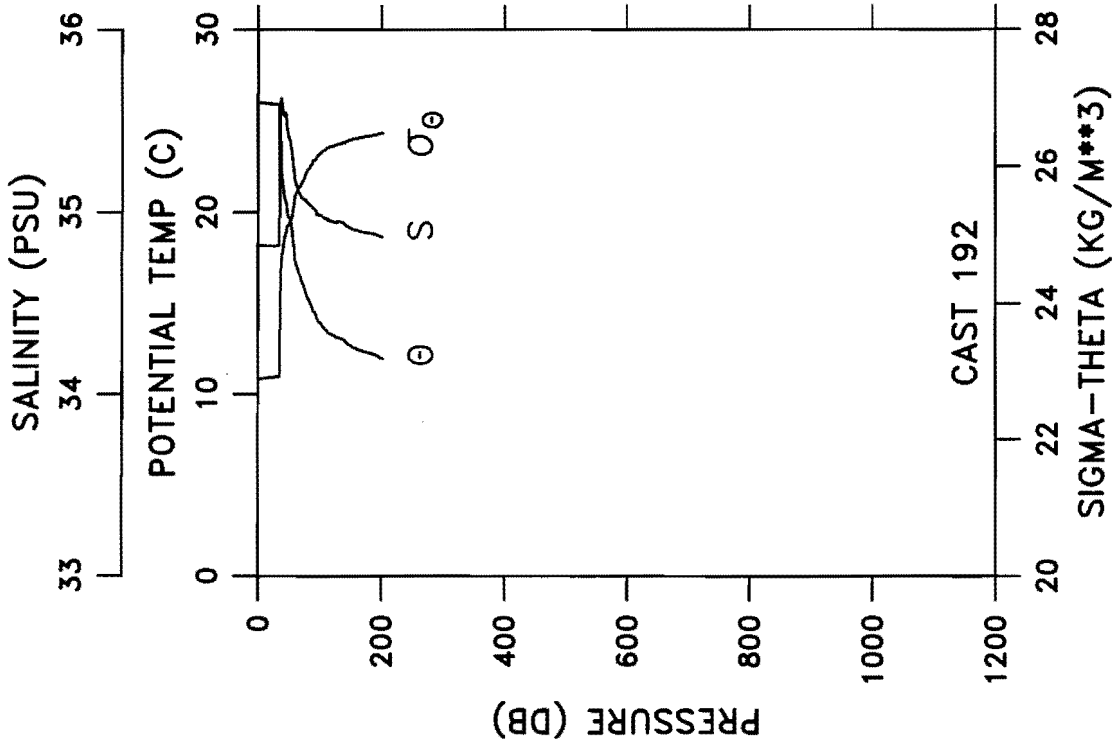
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.483	34.785	22.722	0.000
10	26.484	34.790	22.726	0.051
20	26.480	34.791	22.727	0.102
30	26.486	34.795	22.729	0.154
40	26.477	34.829	22.757	0.205
50	26.120	34.896	22.919	0.256
60	21.986	35.314	24.462	0.297
70	20.246	35.260	24.896	0.330
80	18.700	35.227	25.272	0.359
90	17.706	35.200	25.499	0.385
100	16.112	35.133	25.825	0.408
110	15.111	35.082	26.012	0.429
120	14.493	35.049	26.121	0.449
130	13.883	35.013	26.222	0.467
140	13.496	34.987	26.282	0.485
150	12.976	34.952	26.361	0.503
160	12.581	34.923	26.417	0.519
170	12.356	34.899	26.442	0.536
180	12.200	34.894	26.469	0.552
190	12.061	34.885	26.489	0.568
200	11.949	34.877	26.504	0.583
250	11.375	34.840	26.583	0.660
300	10.772	34.800	26.661	0.734
350	10.324	34.769	26.716	0.805
400	9.492	34.717	26.817	0.873
450	8.891	34.682	26.887	0.937
500	8.150	34.640	26.969	0.997
550	7.505	34.606	27.037	1.054
600	6.856	34.578	27.107	1.108
650	6.287	34.558	27.166	1.159
700	5.858	34.546	27.212	1.208
750	5.577	34.540	27.242	1.254
800	5.263	34.537	27.277	1.299
900	4.794	34.537	27.332	1.386
1000	4.426	34.541	27.376	1.467
1003	4.401	34.541	27.379	1.470

CAST GP2-99-KA-0191 DATE 19 MAY 99 TIME 0910 GMT
 LAT 08 01.6S LONG 095 06.5W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 130 T SPD 13 KT VISIBILITY 7
 CLOUD 9 AMOUNT 9 DRY 24.8 WET 22.6 DEPTH 3577 M



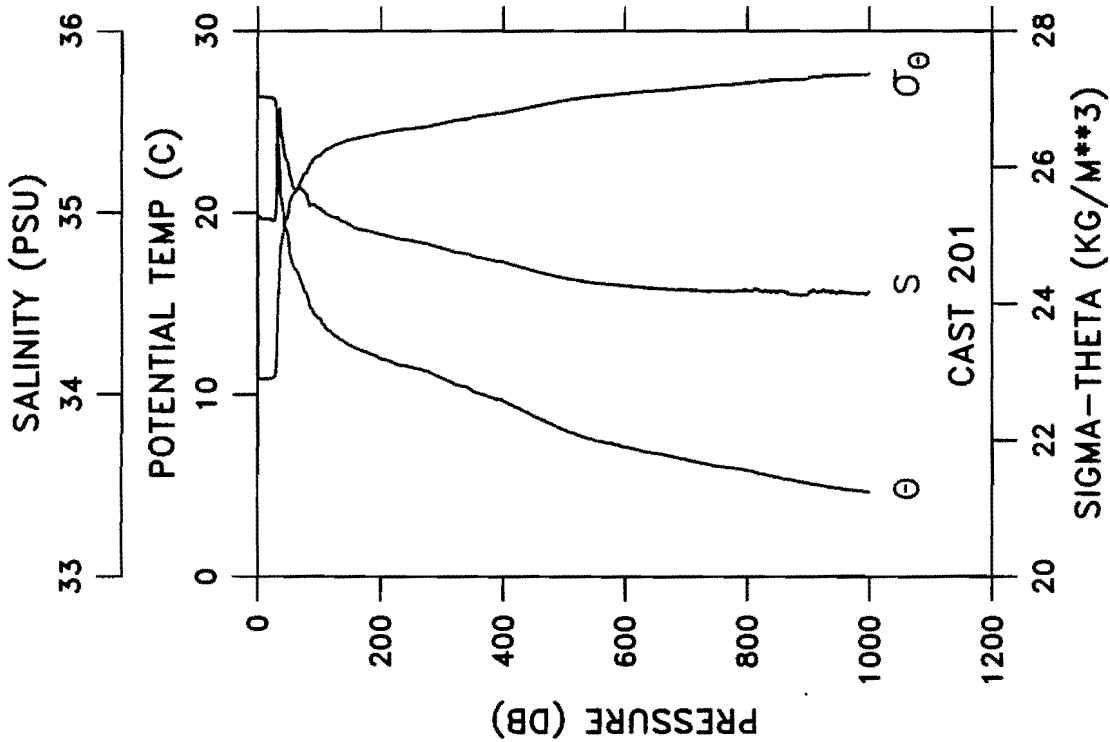
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.891	34.777	22.901	0.000
10	25.896	34.783	22.904	0.050
20	25.895	34.783	22.904	0.089
30	22.523	35.645	24.561	0.147
40	19.346	35.374	25.219	0.177
50	17.762	35.201	25.486	0.203
60	16.123	35.086	25.787	0.227
70	15.616	35.058	25.880	0.249
80	14.949	35.038	26.013	0.269
90	14.529	35.027	26.096	0.289
100	14.143	35.012	26.167	0.308
110	13.883	34.996	26.209	0.327
120	13.459	34.970	26.277	0.344
130	13.033	34.950	26.348	0.362
140	12.815	34.934	26.380	0.379
150	12.636	34.922	26.406	0.395
160	12.498	34.913	26.425	0.412
170	12.355	34.903	26.446	0.428
180	12.182	34.891	26.470	0.444
190	11.959	34.876	26.501	0.460
200	11.477	34.843	26.566	0.553
250	10.818	34.800	26.653	0.628
300	10.179	34.758	26.733	0.698
350	9.599	34.721	26.802	0.766
400	8.953	34.683	26.878	0.831
450	8.214	34.640	26.959	0.892
500	7.474	34.605	27.041	0.949
550	6.851	34.580	27.108	1.003
600	6.442	34.565	27.152	1.054
650	6.060	34.553	27.192	1.103
700	5.728	34.546	27.228	1.151
750	5.398	34.542	27.265	1.196
800	4.929	34.539	27.318	1.284
900	4.527	34.543	27.367	1.368
1000	2.964	34.596	27.566	1.725
1500	2.147	34.642	27.673	2.008
2000	2.146	34.642	27.673	2.010

CAST GP2-99-KA-0192 DATE 19 MAY 99 TIME 1905 GMT
 LAT 07 47.9S LONG 095 08.2W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 143 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 4 DRY 25.6 WET 22.1 DEPTH 3945 M



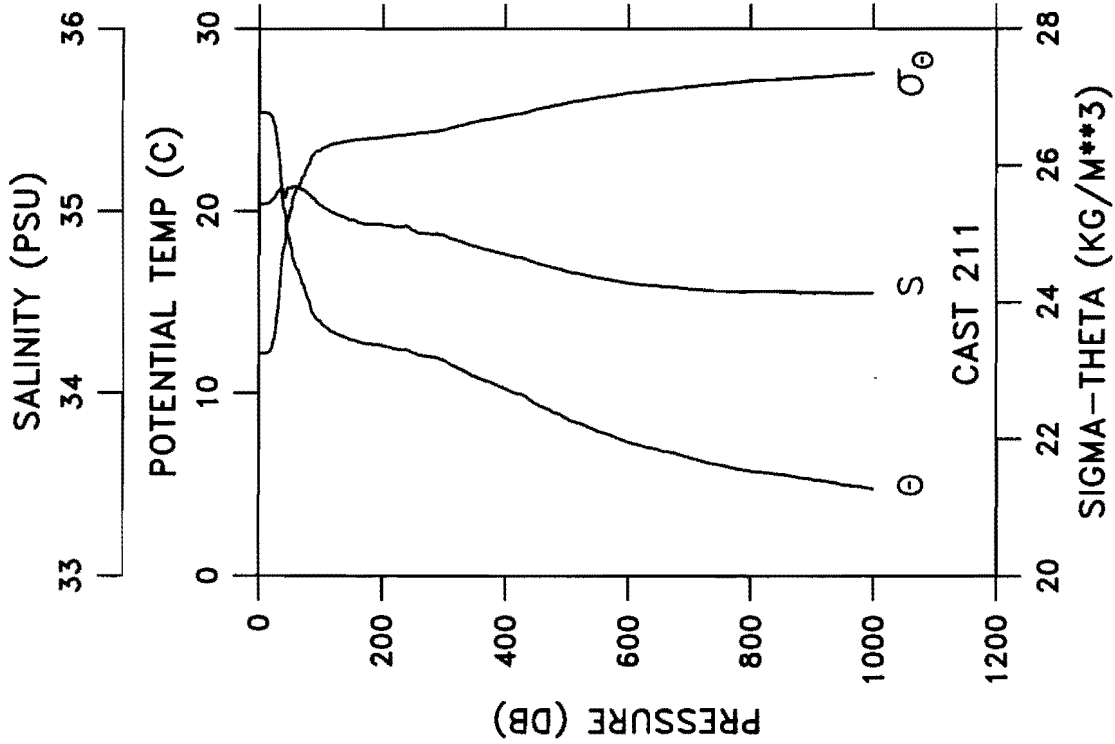
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.010	34.816	22.893	0.000
10	25.983	34.815	22.901	0.050
20	25.939	34.814	22.914	0.099
30	25.919	34.814	22.920	0.149
40	21.658	35.567	24.745	0.192
50	19.705	35.413	25.155	0.221
60	17.331	35.176	25.571	0.248
70	16.285	35.085	25.748	0.272
80	15.329	35.054	25.942	0.293
90	14.551	35.021	26.087	0.314
100	13.931	34.981	26.188	0.332
110	13.543	34.964	26.255	0.351
120	13.275	34.948	26.298	0.368
130	13.099	34.947	26.332	0.386
140	12.947	34.937	26.355	0.403
150	12.667	34.913	26.392	0.420
160	12.494	34.902	26.418	0.436
170	12.343	34.890	26.439	0.452
180	12.267	34.886	26.450	0.469
190	12.149	34.878	26.467	0.485
200	11.966	34.867	26.493	0.501
202	11.949	34.864	26.494	0.504

CAST GP2-99-KA-0201 DATE 20 MAY 99 TIME 0022 GMT
 LAT 06 59.9S LONG 095 05.8W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 144 T SPD 09 KT VISIBILITY 7
 CLOUD 6 AMOUNT 3 DRY 24.9 WET 21.7 DEPTH 3893 M



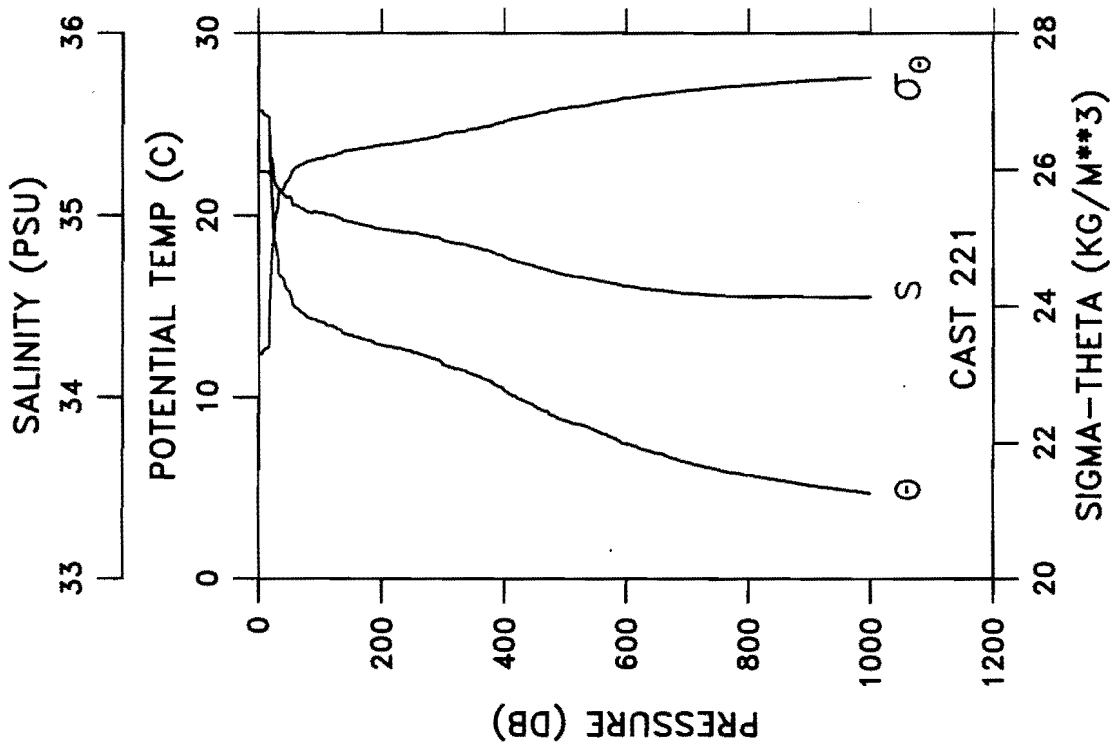
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.360	34.980	22.907	0.000
10	26.358	34.966	22.898	0.050
20	26.355	34.967	22.899	0.099
30	25.879	35.005	23.077	0.148
40	20.466	35.408	24.951	0.185
50	18.658	35.267	25.313	0.213
60	16.960	35.126	25.622	0.238
70	16.259	35.131	25.790	0.261
80	15.546	35.097	25.926	0.283
90	14.584	35.047	26.100	0.303
100	14.194	35.024	26.165	0.322
110	13.706	34.997	26.247	0.340
120	13.411	34.978	26.293	0.358
130	13.187	34.972	26.334	0.375
140	12.935	34.950	26.368	0.392
150	12.732	34.935	26.397	0.409
160	12.544	34.913	26.417	0.425
170	12.398	34.905	26.439	0.442
180	12.275	34.898	26.457	0.458
190	12.162	34.889	26.472	0.474
200	11.981	34.879	26.499	0.490
250	11.503	34.846	26.564	0.567
300	10.886	34.805	26.645	0.642
350	10.188	34.762	26.734	0.713
400	9.694	34.729	26.793	0.781
450	8.837	34.682	26.896	0.846
500	8.091	34.642	26.979	0.906
550	7.503	34.614	27.044	0.962
600	7.138	34.599	27.084	1.017
650	6.786	34.585	27.122	1.069
700	6.449	34.577	27.160	1.120
750	6.071	34.572	27.206	1.170
800	5.823	34.574	27.239	1.217
900	5.147	34.555	27.306	1.307
1000	4.627	34.568	27.375	1.391
1001	4.569	34.556	27.372	1.391

CAST GP2-99-KA-0211 DATE 20 MAY 99 TIME 0735 GMT
 LAT 06 00.2S LONG 095 05.2W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 142 T SPD 11 KT VISIBILITY 7
 CLOUD 9 AMOUNT 9 DRY 24.9 WET 22.3 DEPTH 3903 M



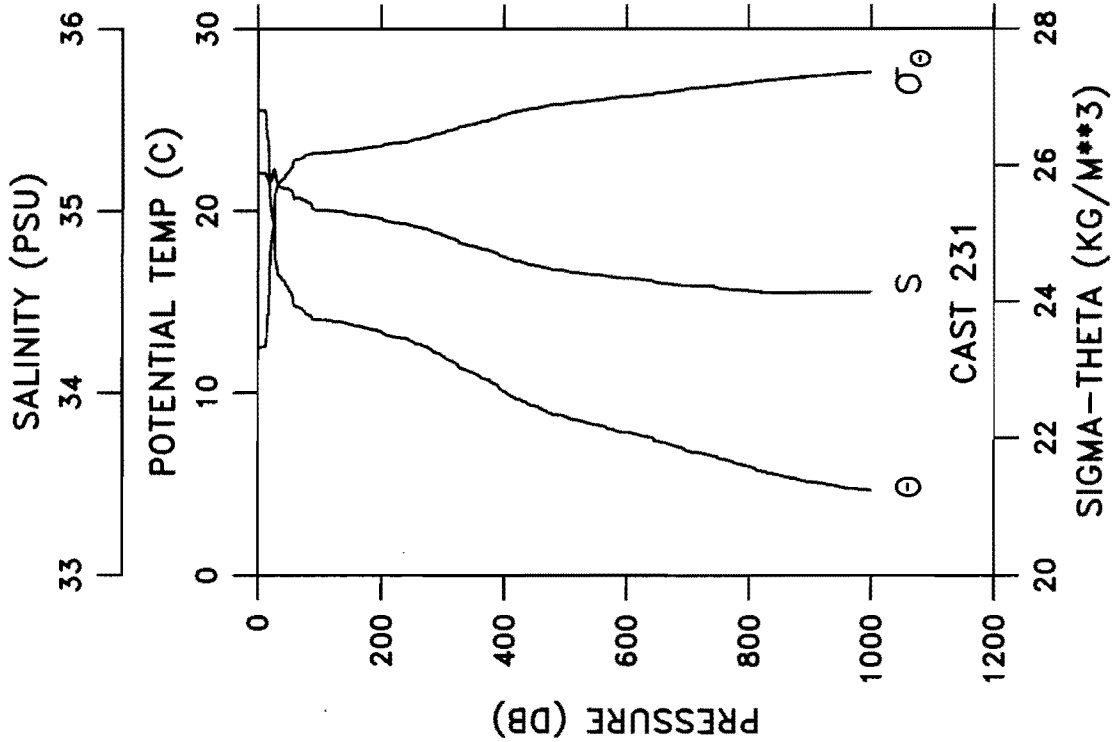
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.412	35.036	23.245	0.000
10	25.408	35.040	23.249	0.046
20	25.232	35.056	23.315	0.092
30	23.616	35.106	23.836	0.136
40	20.115	35.087	24.799	0.172
50	18.298	35.126	25.295	0.201
60	16.893	35.132	25.642	0.226
70	16.025	35.115	25.831	0.249
80	15.162	35.092	26.008	0.270
90	14.253	35.083	26.183	0.289
100	13.933	35.030	26.225	0.307
110	13.604	35.010	26.278	0.325
120	13.349	34.990	26.315	0.343
130	13.203	34.974	26.333	0.360
140	13.058	34.961	26.352	0.377
150	12.927	34.951	26.370	0.394
160	12.831	34.938	26.379	0.411
170	12.739	34.930	26.391	0.428
180	12.697	34.927	26.398	0.444
190	12.679	34.927	26.401	0.461
200	12.611	34.926	26.414	0.478
250	12.210	34.894	26.467	0.560
300	11.799	34.866	26.524	0.640
350	10.919	34.806	26.639	0.716
400	10.239	34.763	26.726	0.788
450	9.407	34.714	26.829	0.856
500	8.641	34.670	26.917	0.920
550	7.948	34.634	26.995	0.979
600	7.326	34.605	27.062	1.035
650	6.901	34.590	27.110	1.089
700	6.458	34.573	27.156	1.141
750	6.075	34.562	27.197	1.190
800	5.728	34.560	27.239	1.238
900	5.271	34.552	27.288	1.329
1000	4.755	34.551	27.347	1.415
1002	4.747	34.550	27.348	1.417

CAST GP2-99-KA-0221 DATE 20 MAY 99 TIME 2042 GMT
 LAT 05 01.3S LONG 095 04.1W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 136 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.8 WET 23.2 DEPTH 3824 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.749	35.240	23.294	0.000
10	25.496	35.238	23.371	0.046
20	22.338	35.281	24.337	0.089
30	18.029	35.156	25.385	0.118
40	16.529	35.117	25.716	0.142
50	15.779	35.101	25.876	0.163
60	14.927	35.058	26.034	0.184
70	14.644	35.039	26.080	0.204
80	14.368	35.019	26.124	0.223
90	14.276	35.020	26.145	0.242
100	14.156	35.015	26.166	0.261
110	13.950	35.004	26.201	0.279
120	13.928	35.001	26.204	0.298
130	13.724	34.988	26.236	0.316
140	13.470	34.970	26.275	0.334
150	13.411	34.965	26.283	0.351
160	13.294	34.956	26.300	0.369
170	13.184	34.948	26.316	0.387
180	13.101	34.942	26.328	0.404
190	12.929	34.929	26.353	0.421
200	12.856	34.925	26.364	0.438
250	12.479	34.905	26.423	0.523
300	11.773	34.862	26.525	0.605
350	11.230	34.828	26.600	0.682
400	10.379	34.774	26.710	0.756
450	9.550	34.721	26.811	0.824
500	8.737	34.675	26.906	0.888
550	8.173	34.647	26.971	0.949
600	7.465	34.612	27.048	1.006
650	6.935	34.590	27.105	1.060
700	6.409	34.571	27.161	1.112
750	6.012	34.561	27.204	1.161
800	5.699	34.554	27.238	1.208
800	5.135	34.553	27.306	1.298
900	4.706	34.552	27.353	1.383
1003	4.690	34.550	27.354	1.386

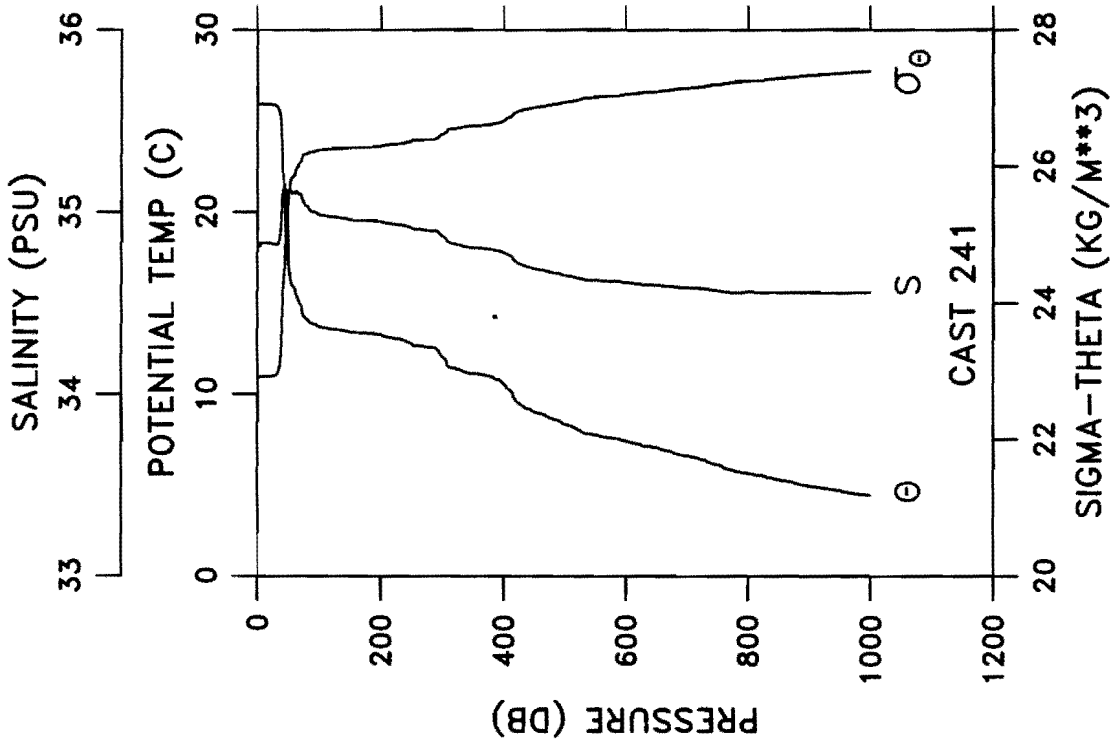
CAST GP2-99-KA-0231 DATE 21 MAY 99 TIME 0357 GMT
 LAT 04 00.1S LONG 095 02.8W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 144 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.6 WET 23.8 DEPTH 3712 M



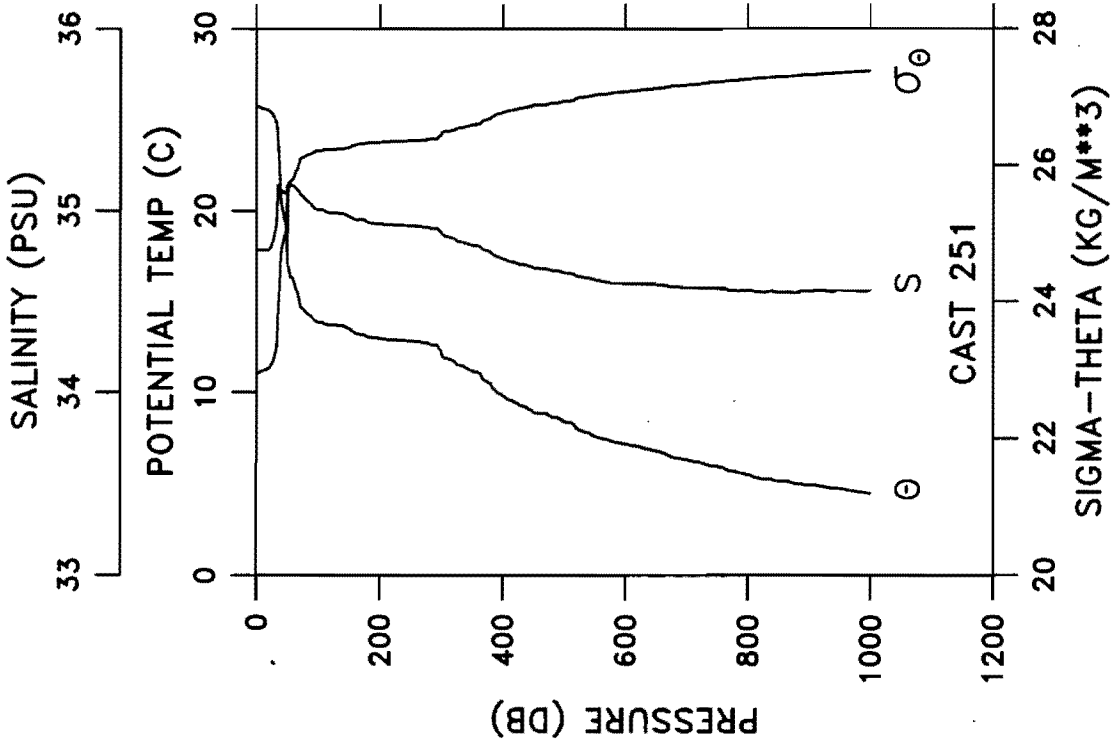
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.565	35.211	23.329	0.000
10	25.548	35.209	23.333	0.045
20	20.374	35.164	24.789	0.086
30	16.967	35.173	25.655	0.114
40	16.176	35.126	25.805	0.136
50	15.661	35.119	25.917	0.158
60	14.731	35.070	26.085	0.178
70	14.631	35.067	26.105	0.197
80	14.287	35.047	26.163	0.216
90	14.014	35.009	26.191	0.235
100	14.003	35.004	26.190	0.253
110	13.994	35.003	26.192	0.272
120	13.913	35.000	26.206	0.290
130	13.896	34.998	26.208	0.309
140	13.830	34.992	26.217	0.327
150	13.750	34.983	26.227	0.345
160	13.654	34.978	26.243	0.363
170	13.593	34.976	26.254	0.381
180	13.488	34.971	26.272	0.399
190	13.437	34.967	26.279	0.417
200	13.337	34.958	26.292	0.435
250	12.808	34.920	26.370	0.522
300	11.982	34.867	26.490	0.606
350	11.077	34.807	26.612	0.684
400	10.057	34.747	26.745	0.756
450	9.286	34.702	26.839	0.823
500	8.703	34.672	26.908	0.886
550	8.258	34.649	26.960	0.946
600	7.850	34.631	27.007	1.005
650	7.315	34.606	27.065	1.061
700	6.779	34.589	27.126	1.115
750	6.398	34.574	27.165	1.167
800	5.951	34.561	27.212	1.216
900	5.109	34.550	27.306	1.307
1000	4.624	34.557	27.367	1.391
1003	4.613	34.557	27.368	1.393

CAST GP2-99-KA-0241 DATE 21 MAY 99 TIME 1050 GMT
 LAT 03 00.0S LONG 095 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 176 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.0 WET 23.2 DEPTH 3530 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.931	34.813	22.916	0.000
10	25.932	34.830	22.928	0.049
20	25.926	34.829	22.929	0.099
30	25.854	34.821	22.946	0.148
40	23.735	35.070	23.774	0.195
50	17.244	35.100	25.533	0.227
60	15.807	35.108	25.875	0.250
70	14.903	35.094	26.066	0.270
80	14.127	35.032	26.185	0.289
90	13.861	35.000	26.217	0.307
100	13.889	34.986	26.242	0.325
110	13.627	34.979	26.250	0.343
120	13.566	34.974	26.258	0.361
130	13.540	34.971	26.261	0.379
140	13.484	34.965	26.268	0.397
150	13.398	34.958	26.280	0.414
160	13.384	34.955	26.281	0.432
170	13.367	34.954	26.284	0.450
180	13.337	34.953	26.289	0.468
190	13.312	34.951	26.292	0.485
200	13.261	34.948	26.300	0.503
250	12.756	34.913	26.375	0.590
300	12.062	34.869	26.476	0.675
350	11.133	34.805	26.600	0.752
400	10.604	34.777	26.673	0.827
450	8.044	34.690	26.869	0.894
500	8.363	34.653	26.947	0.956
550	7.784	34.627	27.014	1.014
600	7.421	34.614	27.055	1.070
650	7.063	34.600	27.095	1.124
700	6.809	34.586	27.146	1.176
750	6.111	34.570	27.199	1.226
800	5.630	34.563	27.254	1.273
900	4.933	34.559	27.334	1.361
1000	4.446	34.560	27.389	1.442
1001	4.446	34.559	27.388	1.442

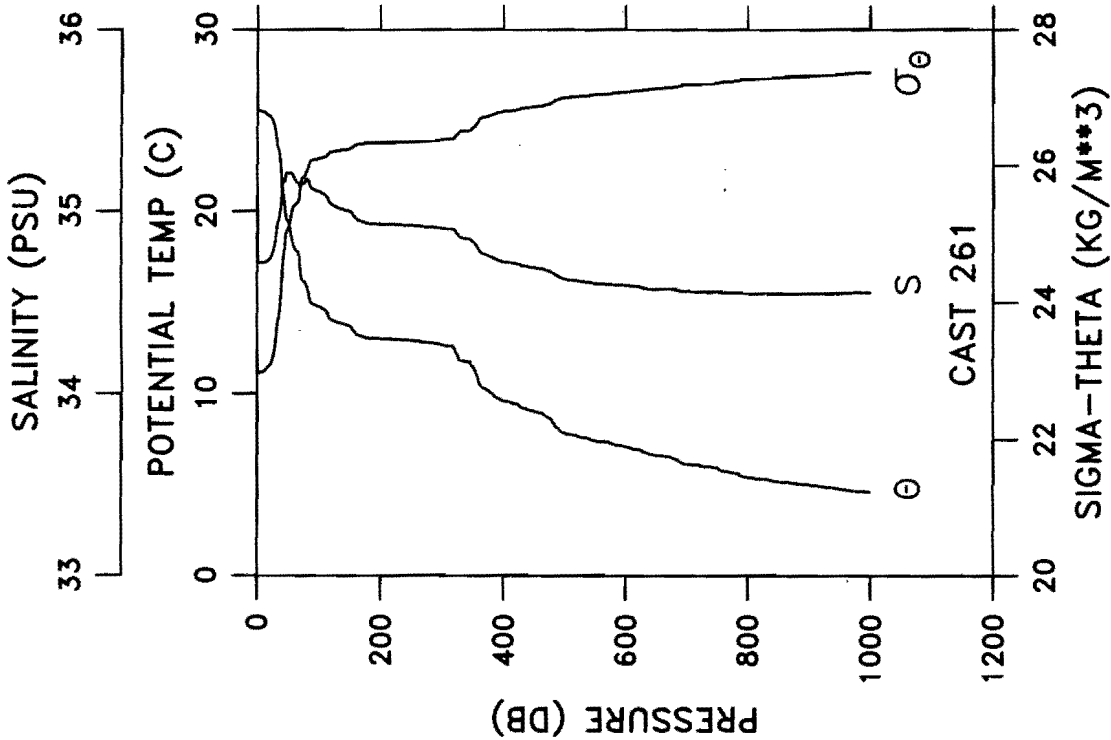


CAST GP2-99-KA-0251 DATE 21 MAY 99 TIME 1745 GMT
 LAT 01 58.2S LONG 095 01.9W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 149 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.2 WET 24.8 DEPTH 3355 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.740	34.784	22.953	0.000
10	25.627	34.783	22.987	0.049
20	25.512	34.785	23.024	0.098
30	25.057	34.879	23.235	0.145
40	20.496	35.109	24.714	0.186
50	17.536	35.138	25.492	0.216
60	16.154	35.137	25.819	0.239
70	14.853	35.089	26.081	0.260
80	14.426	35.060	26.144	0.279
90	14.126	35.029	26.184	0.297
100	13.867	35.003	26.218	0.316
110	13.770	34.988	26.234	0.334
120	13.721	34.988	26.237	0.352
130	13.701	34.987	26.240	0.370
140	13.669	34.984	26.245	0.388
150	13.508	34.970	26.267	0.406
160	13.254	34.951	26.305	0.424
170	13.198	34.951	26.316	0.441
180	13.054	34.937	26.334	0.459
190	13.024	34.931	26.335	0.476
200	12.978	34.927	26.341	0.493
250	12.825	34.916	26.363	0.580
300	12.182	34.876	26.459	0.665
350	11.170	34.810	26.597	0.744
400	9.789	34.734	26.779	0.816
450	8.905	34.685	26.887	0.881
500	8.407	34.658	26.944	0.942
550	7.607	34.619	27.033	1.000
600	7.177	34.599	27.078	1.055
650	6.803	34.593	27.125	1.108
700	6.330	34.577	27.176	1.158
750	5.966	34.572	27.219	1.207
800	5.516	34.563	27.267	1.253
900	4.968	34.558	27.329	1.340
1000	4.504	34.562	27.384	1.422
1004	4.501	34.562	27.384	1.425

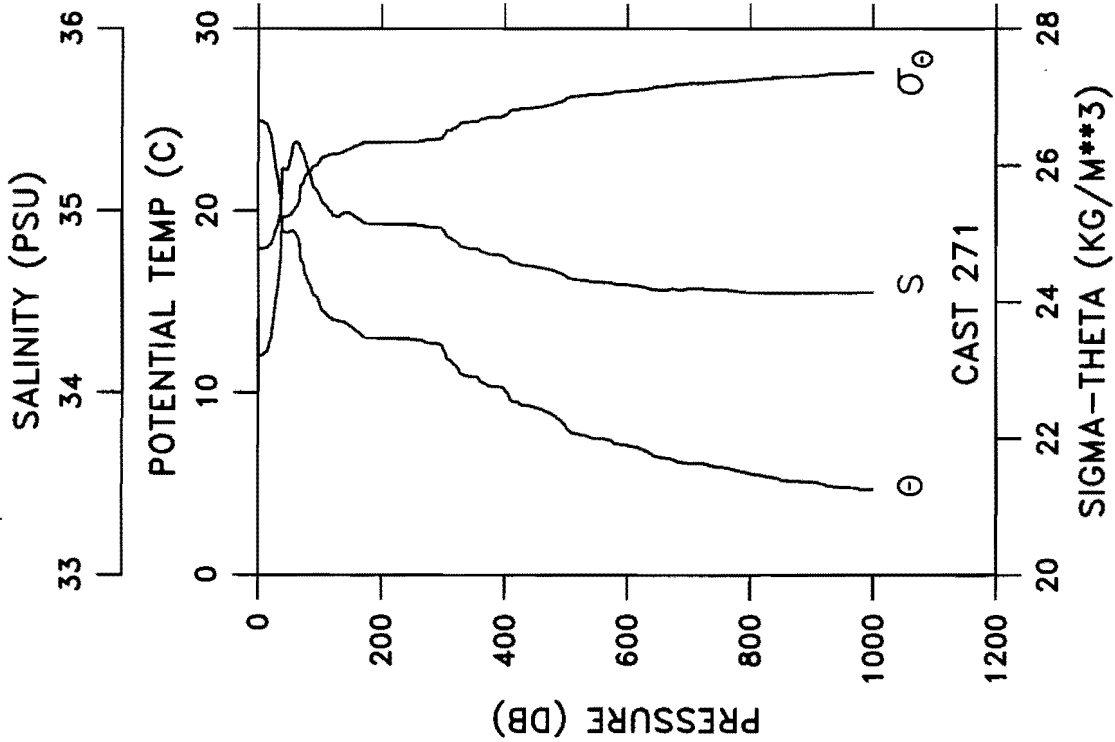
CAST GP2-99-KA-0261 DATE 21 MAY 99 TIME 2140 GMT
 LAT 01 29.9S LONG 095 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 147 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 26.8 WET 24.0 DEPTH 3339 M



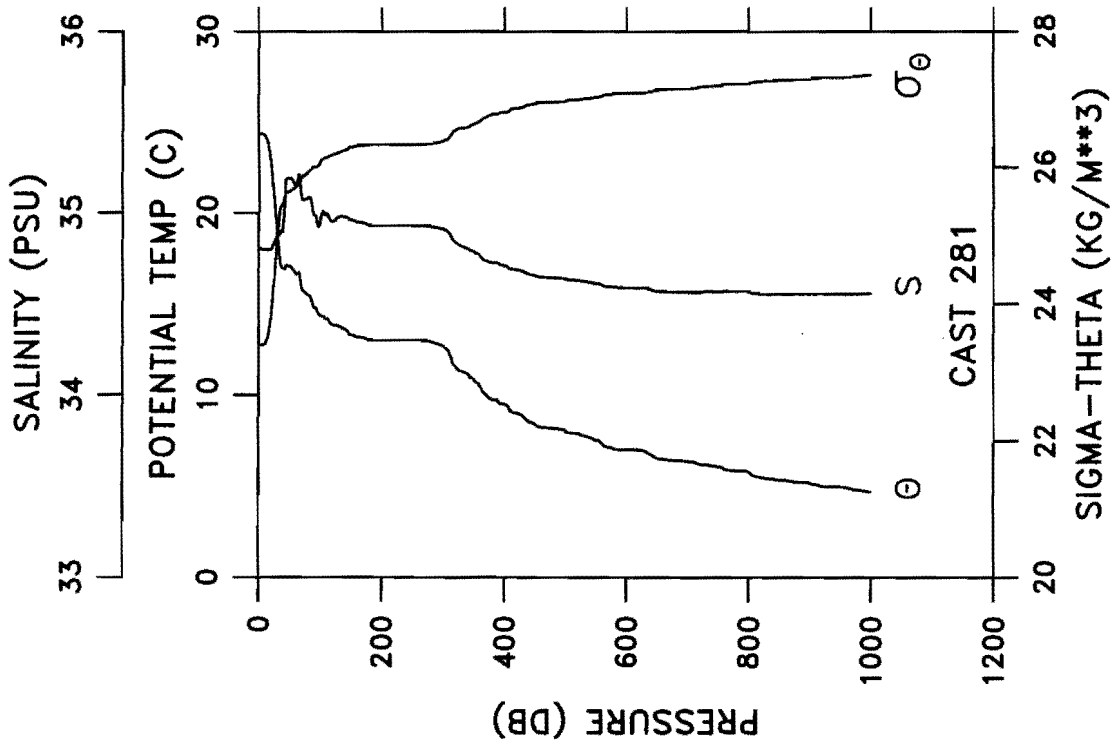
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.513	34.717	22.972	0.000
10	25.455	34.718	22.991	0.049
20	25.220	34.739	23.079	0.097
30	24.282	34.866	23.458	0.144
40	21.565	35.122	24.433	0.184
50	19.396	35.209	25.080	0.215
60	17.989	35.179	25.418	0.242
70	16.493	35.138	25.741	0.267
80	15.821	35.175	25.924	0.289
90	14.918	35.121	26.084	0.309
100	14.764	35.107	26.107	0.328
110	14.583	35.088	26.132	0.347
120	14.055	35.038	26.206	0.366
130	13.902	35.018	26.222	0.384
140	13.821	35.007	26.231	0.403
150	13.683	34.996	26.251	0.421
160	13.264	34.959	26.308	0.439
170	13.144	34.944	26.321	0.456
180	13.049	34.932	26.331	0.473
190	13.040	34.931	26.332	0.491
200	13.013	34.929	26.336	0.508
250	12.932	34.923	26.347	0.595
300	12.894	34.906	26.382	0.681
350	11.512	34.833	26.552	0.764
400	9.620	34.722	26.799	0.834
450	9.062	34.691	26.866	0.899
500	7.871	34.629	27.002	0.960
550	7.442	34.605	27.045	1.016
600	7.114	34.594	27.084	1.070
650	6.637	34.575	27.134	1.123
700	6.144	34.566	27.191	1.173
750	5.931	34.562	27.216	1.221
800	5.420	34.552	27.270	1.267
900	5.026	34.549	27.315	1.355
1000	4.595	34.556	27.370	1.438
1002	4.592	34.558	27.371	1.440

CAST GP2-99-KA-0271 DATE 22 MAY 99 TIME 0131 GMT
 LAT 00 59.5S LONG 094 59.2W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 145 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 25.0 WET 23.5 DEPTH 3349 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.906	34.793	23.215	0.000
10	24.814	34.796	23.245	0.046
20	24.209	34.816	23.442	0.092
30	22.128	34.905	24.111	0.133
40	18.837	35.232	25.241	0.167
50	18.807	35.250	25.263	0.194
60	18.783	35.377	25.366	0.221
70	17.224	35.330	25.715	0.246
80	16.143	35.231	25.894	0.268
90	15.381	35.130	25.988	0.289
100	14.829	35.079	26.072	0.309
110	14.346	35.028	26.136	0.328
120	14.021	34.978	26.167	0.347
130	13.946	34.965	26.172	0.366
140	13.865	34.990	26.208	0.384
150	13.632	34.984	26.252	0.403
160	13.363	34.962	26.290	0.420
170	13.083	34.937	26.328	0.438
180	13.028	34.931	26.334	0.455
190	13.012	34.930	26.337	0.473
200	13.006	34.929	26.337	0.490
250	12.938	34.924	26.347	0.577
300	12.387	34.893	26.432	0.663
350	10.880	34.792	26.636	0.740
400	10.125	34.745	26.732	0.811
450	9.201	34.695	26.847	0.877
500	8.111	34.641	26.975	0.940
550	7.494	34.610	27.042	0.996
600	7.110	34.596	27.085	1.050
650	6.480	34.568	27.149	1.102
700	6.141	34.575	27.199	1.152
750	5.920	34.569	27.222	1.200
800	5.569	34.555	27.255	1.246
900	5.136	34.551	27.304	1.335
1000	4.719	34.556	27.355	1.419
1007	4.714	34.556	27.356	1.425

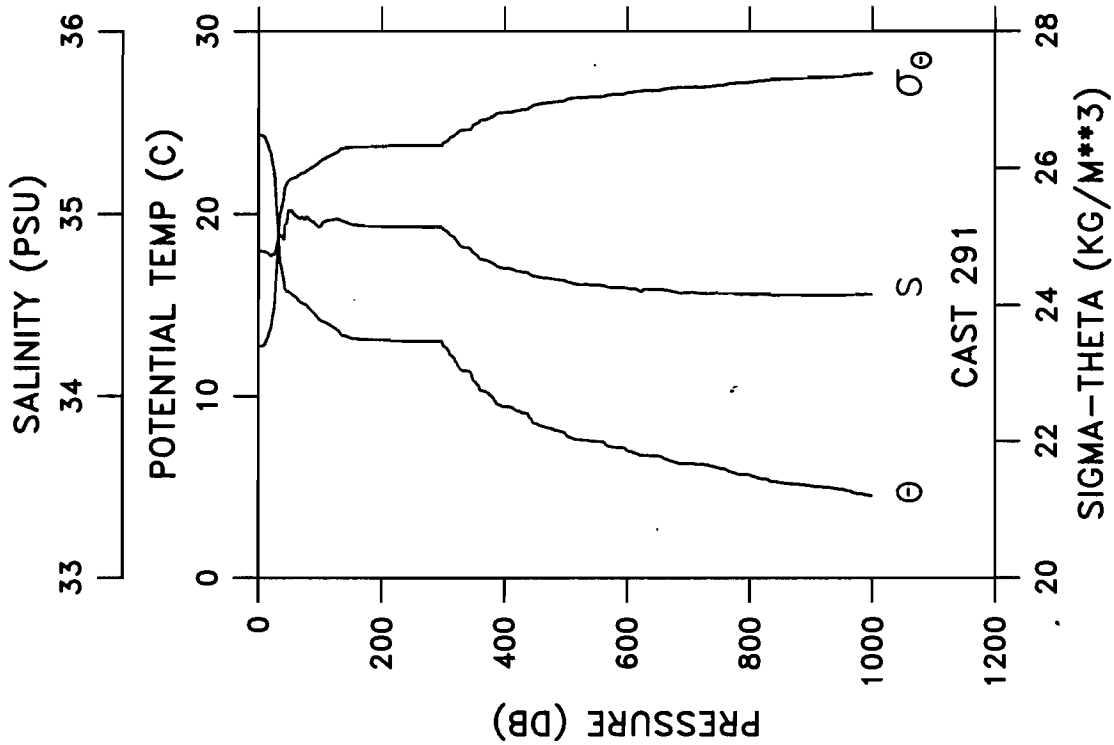


CAST GP2-99-KA-0281 DATE 22 MAY 99 TIME 0502 GMT
 LAT 00 29.8S LONG 094 59.6W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 114 T SPD 07 KT VISIBILITY 7
 CLOUD 9 AMOUNT 9 DRY 24.5 WET 23.4 DEPTH 3389 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH (DYN-M)	DELTA-D (DYN-M)
0	24.343	34.804	23.393	0.000
10	24.250	34.797	23.415	0.045
20	22.865	34.798	23.821	0.088
30	18.909	34.877	24.951	0.124
40	16.947	34.935	25.478	0.150
50	17.075	35.190	25.643	0.174
60	16.656	35.150	25.712	0.198
70	15.790	35.077	25.856	0.220
80	15.504	35.081	25.923	0.241
90	14.806	34.988	26.006	0.262
100	14.327	34.938	26.071	0.282
110	14.177	34.991	26.144	0.301
120	13.838	34.950	26.183	0.320
130	13.781	34.979	26.217	0.338
140	13.620	34.977	26.249	0.356
150	13.306	34.960	26.300	0.374
160	13.194	34.949	26.315	0.392
170	13.140	34.943	26.321	0.409
180	13.043	34.932	26.332	0.427
190	13.021	34.929	26.335	0.444
200	13.019	34.929	26.334	0.461
250	13.015	34.928	26.335	0.548
300	12.688	34.910	26.366	0.536
350	10.836	34.783	26.637	0.714
400	9.518	34.710	26.807	0.783
450	8.438	34.656	26.937	0.845
500	8.061	34.637	26.980	0.904
550	7.557	34.614	27.036	0.961
600	7.041	34.591	27.091	1.015
650	6.554	34.570	27.141	1.068
700	6.383	34.564	27.159	1.118
750	6.096	34.565	27.197	1.167
800	5.809	34.568	27.236	1.215
900	5.186	34.555	27.301	1.304
1000	4.692	34.557	27.359	1.389
1003	4.658	34.557	27.363	1.392

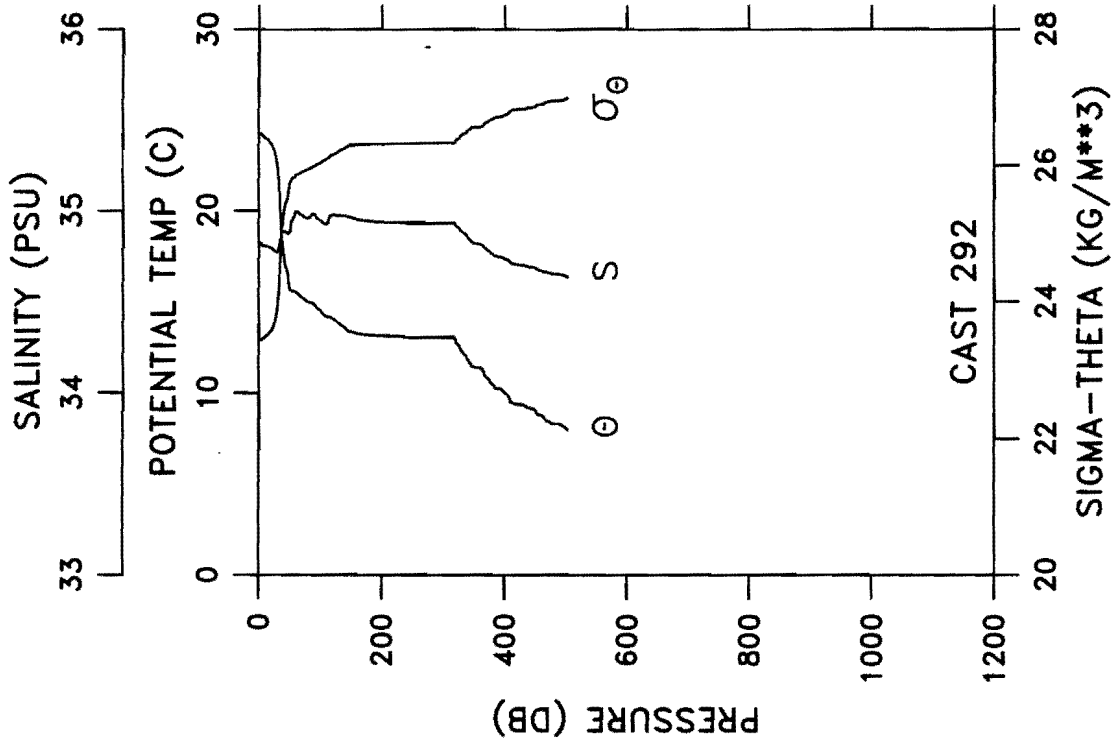
CAST GP2-99-KA-0291 DATE 23 MAY 99 TIME 0310 GMT
 LAT 00 03.0S LONG 094 58.4W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 123 T SPD 10 KT VISIBILITY 7
 CLOUD 7 AMOUNT 2 DRY 23.9 WET 22.9 DEPTH 3286 M



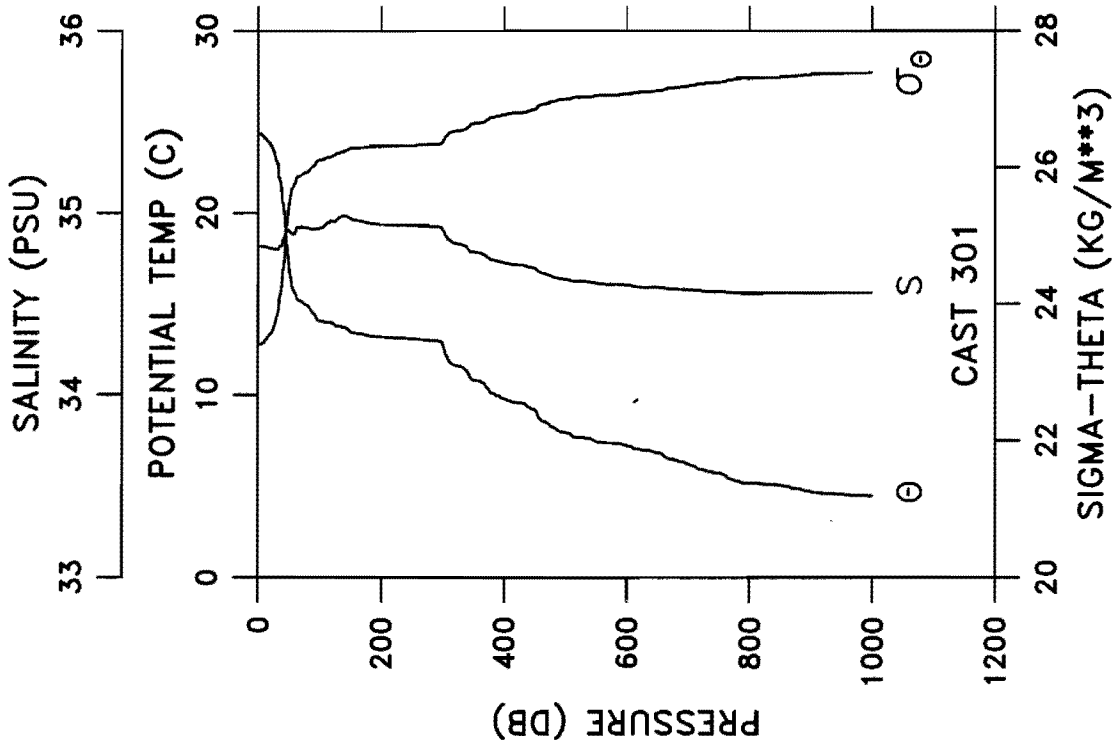
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.297	34.798	23.402	0.000
10	24.232	34.796	23.419	0.045
20	23.358	34.772	23.659	0.088
30	20.167	34.838	24.595	0.127
40	16.582	34.871	25.515	0.155
50	15.704	35.018	25.830	0.178
60	15.469	34.993	25.863	0.199
70	15.145	34.984	25.928	0.220
80	14.941	34.982	25.972	0.241
90	14.579	34.955	26.030	0.261
100	14.189	34.932	26.095	0.281
110	14.034	34.963	26.152	0.300
120	13.844	34.970	26.198	0.319
130	13.581	34.972	26.254	0.337
140	13.328	34.959	26.295	0.355
150	13.208	34.945	26.309	0.372
160	13.167	34.940	26.313	0.390
170	13.138	34.937	26.317	0.407
180	13.127	34.936	26.318	0.424
190	13.122	34.935	26.319	0.442
200	13.114	34.935	26.320	0.459
250	13.031	34.929	26.333	0.547
300	12.808	34.919	26.369	0.635
350	10.848	34.787	26.638	0.715
400	9.441	34.705	26.816	0.784
450	8.501	34.659	26.930	0.848
500	7.896	34.632	27.000	0.907
550	7.503	34.611	27.042	0.962
600	6.973	34.594	27.103	1.016
650	6.684	34.588	27.138	1.068
700	6.266	34.570	27.179	1.118
750	5.997	34.567	27.211	1.167
800	5.826	34.560	27.252	1.213
900	5.031	34.558	27.321	1.301
1000	4.471	34.560	27.386	1.384
1500	3.047	34.607	27.567	1.737
2000	2.143	34.642	27.674	2.019
2500	1.688	34.664	27.727	2.265
3000	1.526	34.675	27.748	2.498
3002	1.526	34.675	27.748	2.499

CAST GP2-99-KA-0292 DATE 23 MAY 99 TIME 1745 GMT
 LAT 00 06.5S LONG 094 54.9W WEATHER 0 SEA STATE 3
 BAROMETER 10 WIND DIR 128 T SPD 11 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 23.1 WET 22.0 DEPTH 3379 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.247	34.821	23.434	0.000
10	24.030	34.805	23.487	0.044
20	23.701	34.793	23.574	0.088
30	22.506	34.771	23.903	0.130
40	17.650	34.881	25.268	0.163
50	15.676	34.886	25.735	0.188
60	15.526	34.997	25.854	0.210
70	15.231	34.972	25.900	0.231
80	14.993	34.959	25.943	0.252
90	14.857	34.978	25.987	0.273
100	14.510	34.944	26.036	0.293
110	14.160	34.923	26.094	0.313
120	14.051	34.976	26.159	0.332
130	13.807	34.971	26.206	0.350
140	13.558	34.971	26.258	0.369
150	13.341	34.960	26.294	0.386
160	13.252	34.950	26.304	0.404
170	13.208	34.944	26.308	0.421
180	13.173	34.940	26.312	0.439
190	13.152	34.938	26.315	0.456
200	13.135	34.936	26.317	0.474
250	13.042	34.930	26.331	0.562
300	13.034	34.930	26.333	0.650
350	11.999	34.820	26.563	0.734
400	10.037	34.735	26.740	0.808
450	9.055	34.686	26.863	0.873
500	8.087	34.640	26.978	0.934
503	7.990	34.634	26.989	0.937

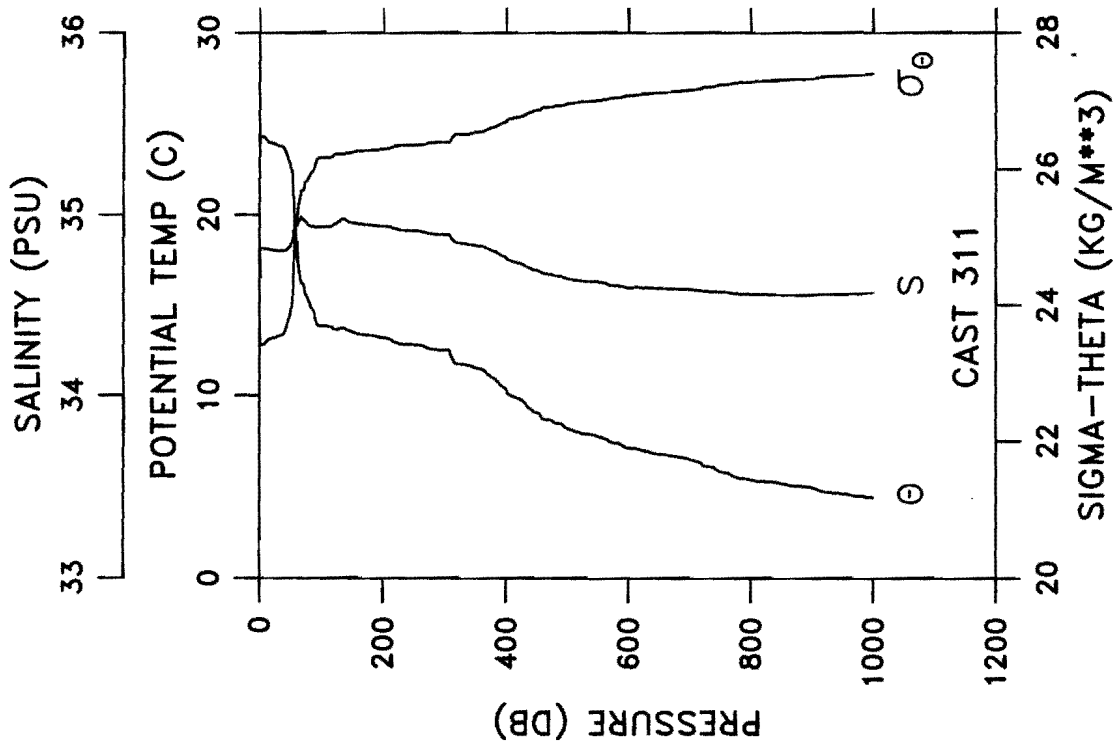


CAST GP2-99-KA-0301 DATE 23 MAY 99 TIME 2134 GMT
 LAT 00 30.2N LONG 094 55.5W WEATHER 0 SEA STATE 4
 BAROMETER 08 WIND DIR 134 T SPD 09 KT VISIBILITY 7
 CLOUD 0 AMOUNT 1 DRY 28.1 WET 24.9 DEPTH 3325 M



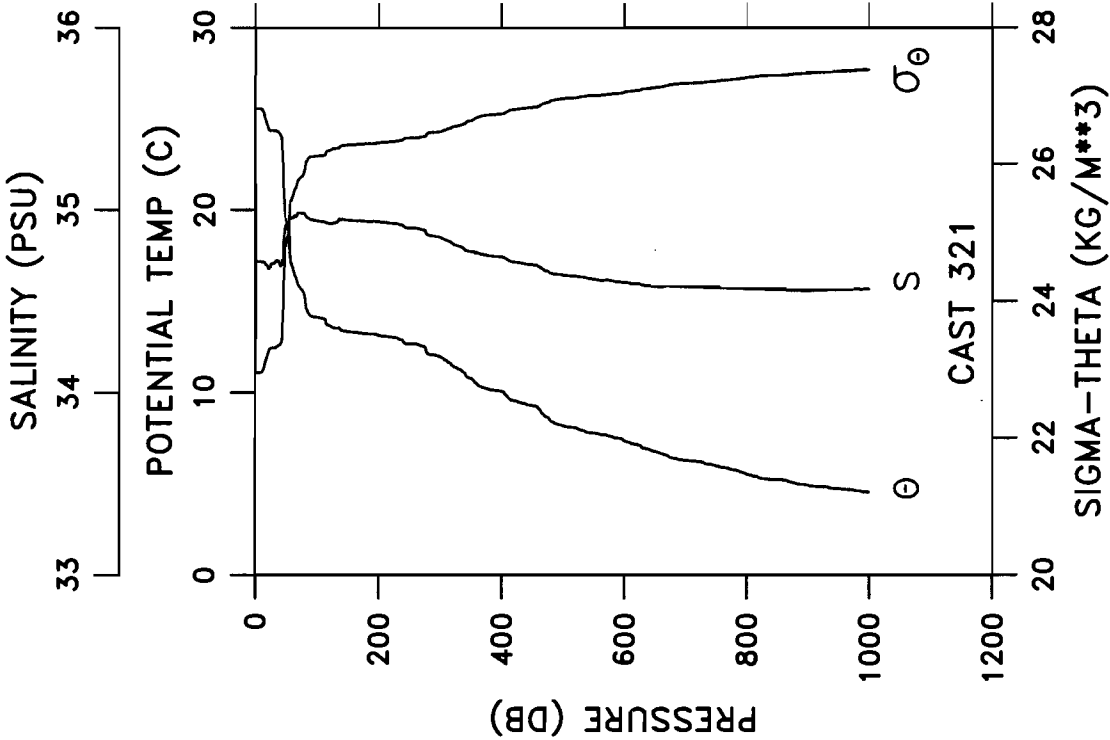
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.329	34.817	23.407	0.000
10	24.154	34.813	23.456	0.045
20	23.776	34.803	23.560	0.088
30	22.890	34.789	23.814	0.131
40	20.587	34.850	24.493	0.169
50	17.022	34.902	25.435	0.199
60	15.540	34.892	25.769	0.222
70	15.122	34.924	25.888	0.244
80	14.908	34.917	25.929	0.265
90	14.448	34.910	26.023	0.285
100	14.060	34.917	26.111	0.305
110	13.991	34.937	26.141	0.324
120	13.957	34.954	26.161	0.343
130	13.787	34.968	26.208	0.361
140	13.711	34.983	26.235	0.380
150	13.439	34.967	26.279	0.398
160	13.376	34.957	26.284	0.415
170	13.336	34.951	26.288	0.433
180	13.250	34.944	26.300	0.451
190	13.212	34.940	26.304	0.468
200	13.180	34.937	26.308	0.486
250	13.090	34.932	26.323	0.574
300	12.722	34.907	26.377	0.662
350	10.805	34.786	26.645	0.740
400	9.792	34.726	26.773	0.811
450	9.183	34.695	26.850	0.877
500	7.930	34.635	26.998	0.937
550	7.443	34.613	27.052	0.993
600	7.216	34.603	27.076	1.047
650	6.786	34.589	27.125	1.100
700	6.198	34.578	27.194	1.150
750	5.704	34.564	27.246	1.197
800	5.158	34.556	27.305	1.241
900	4.683	34.558	27.361	1.325
1000	4.470	34.561	27.387	1.405
1002	4.466	34.561	27.388	1.407

CAST GP2-99-KA-0311 DATE 24 MAY 99 TIME 0119 GMT
 LAT 01 00.0N LONG 094 57.3W WEATHER 0 SEA STATE 4
 BAROMETER 09 WIND DIR 129 T SPD 09 KT VISIBILITY 7
 CLOUD 0 AMOUNT 1 DRY 24.0 WET 22.5 DEPTH 3512 M



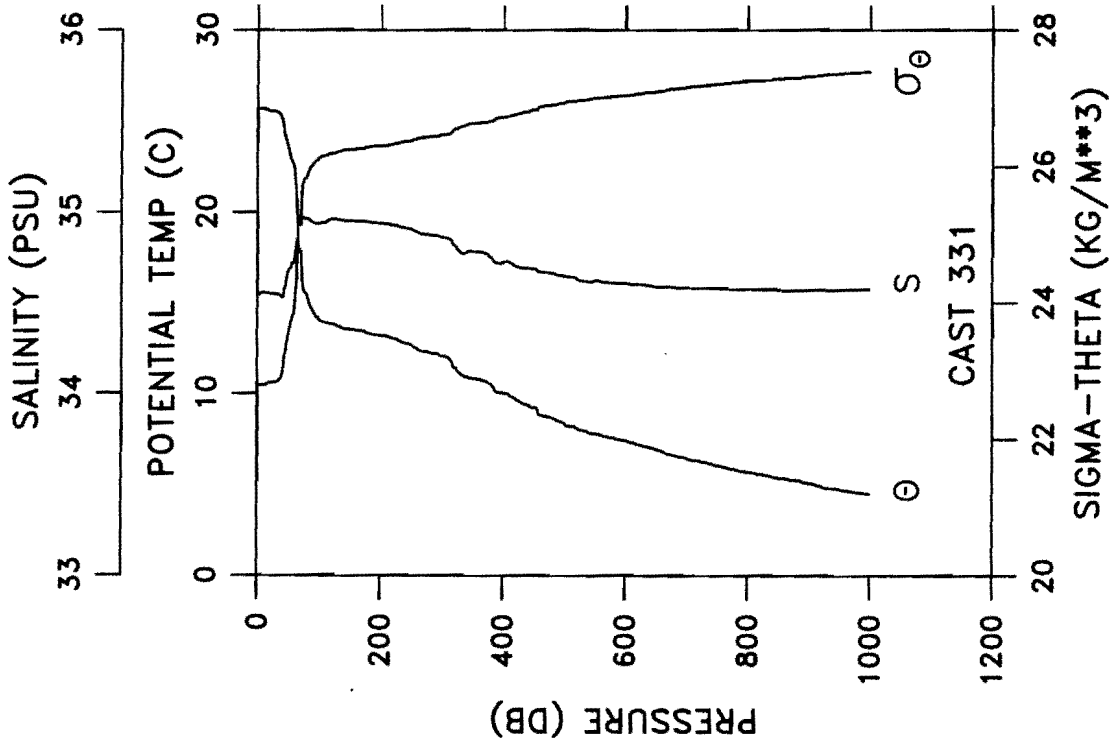
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.293	34.812	23.413	0.000
10	24.176	34.808	23.446	0.045
20	23.938	34.803	23.512	0.089
30	23.820	34.798	23.543	0.132
40	23.639	34.798	23.597	0.175
50	22.601	34.830	23.921	0.217
60	17.981	34.936	25.229	0.252
70	16.147	34.975	25.696	0.276
80	15.162	34.938	25.889	0.298
90	14.196	34.927	26.090	0.319
100	13.827	34.932	26.172	0.337
110	13.817	34.932	26.173	0.356
120	13.661	34.945	26.216	0.375
130	13.699	34.969	26.227	0.393
140	13.651	34.968	26.236	0.411
150	13.521	34.955	26.253	0.429
160	13.400	34.948	26.272	0.447
170	13.362	34.944	26.277	0.465
180	13.325	34.941	26.282	0.483
190	13.272	34.936	26.289	0.500
200	13.204	34.935	26.302	0.518
250	12.818	34.909	26.359	0.605
300	12.531	34.889	26.401	0.691
350	11.549	34.829	26.542	0.771
400	10.411	34.764	26.697	0.847
450	9.089	34.691	26.863	0.914
500	8.228	34.645	26.961	0.975
550	7.786	34.629	27.014	1.033
600	7.144	34.596	27.081	1.088
650	6.805	34.592	27.125	1.141
700	6.489	34.586	27.162	1.192
750	5.820	34.573	27.238	1.241
800	5.373	34.559	27.282	1.286
900	4.946	34.556	27.330	1.373
1000	4.418	34.569	27.399	1.453
1004	4.389	34.569	27.402	1.456

CAST GP2-99-KA-0321 DATE 24 MAY 99 TIME 0524 GMT
 LAT 01 30.2N LONG 094 59.1W WEATHER 0 SEA STATE 4
 BAROMETER 09 WIND DIR 133 T SPD 10 KT VISIBILITY 7
 CLOUD 0 AMOUNT 1 DRY 24.0 WET 22.5 DEPTH 2625 M



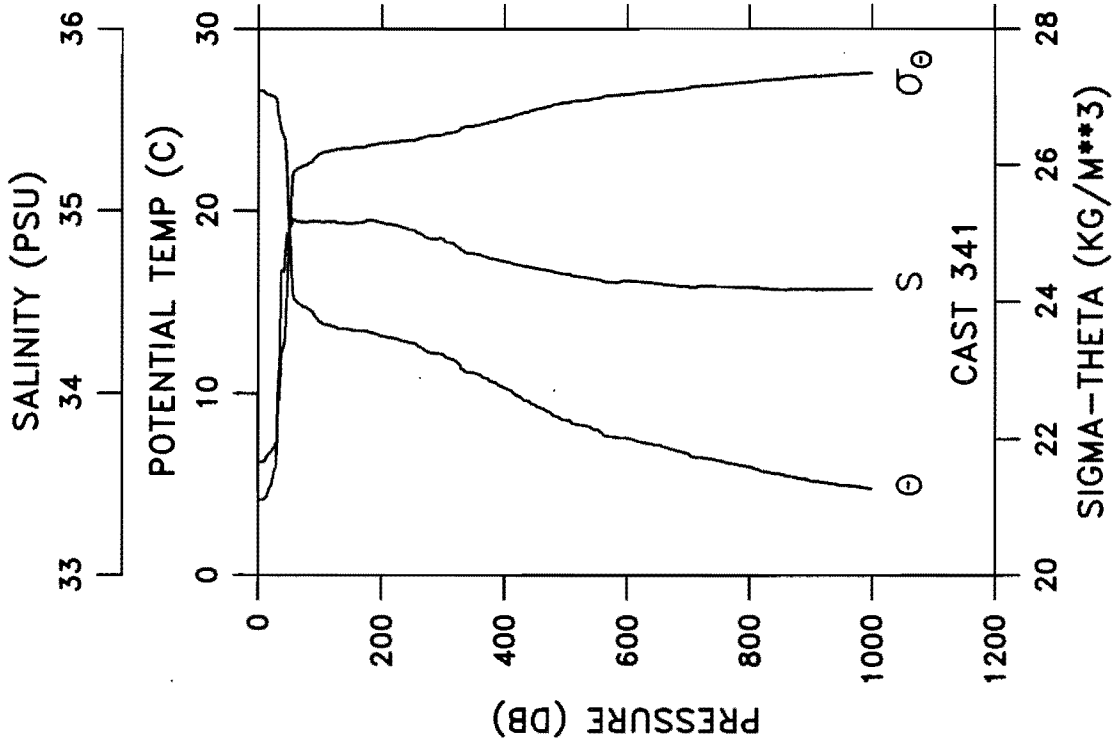
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.561	34.718	22.959	0.000
10	25.534	34.716	22.966	0.049
20	24.576	34.684	23.232	0.097
30	24.339	34.706	23.320	0.143
40	24.131	34.692	23.371	0.188
50	19.381	34.912	24.858	0.227
60	16.859	34.957	25.515	0.254
70	15.844	34.983	25.771	0.278
80	15.154	34.977	25.921	0.300
90	14.178	34.947	26.109	0.319
100	14.116	34.941	26.118	0.339
110	14.050	34.936	26.127	0.358
120	13.665	34.926	26.201	0.376
130	13.523	34.930	26.233	0.395
140	13.401	34.950	26.274	0.413
150	13.335	34.944	26.282	0.430
160	13.307	34.942	26.286	0.448
170	13.264	34.941	26.294	0.466
180	13.239	34.938	26.297	0.484
190	13.222	34.938	26.300	0.501
200	13.154	34.935	26.312	0.519
250	12.670	34.901	26.382	0.606
300	11.975	34.849	26.477	0.689
350	10.795	34.772	26.636	0.767
400	10.082	34.743	26.738	0.838
450	9.305	34.701	26.835	0.904
500	8.188	34.644	26.966	0.966
550	7.779	34.620	27.008	1.024
600	7.351	34.603	27.057	1.080
650	6.752	34.582	27.123	1.133
700	6.274	34.580	27.186	1.183
750	5.972	34.575	27.220	1.232
800	5.513	34.569	27.273	1.278
900	4.908	34.560	27.337	1.364
1000	4.532	34.567	27.385	1.446
1002	4.532	34.566	27.385	1.447

CAST GP2-99-KA-0331 DATE 24 MAY 99 TIME 1646 GMT
 LAT 01 59.8N LONG 095 01.6W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 142 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.5 WET 23.1 DEPTH 3207 M

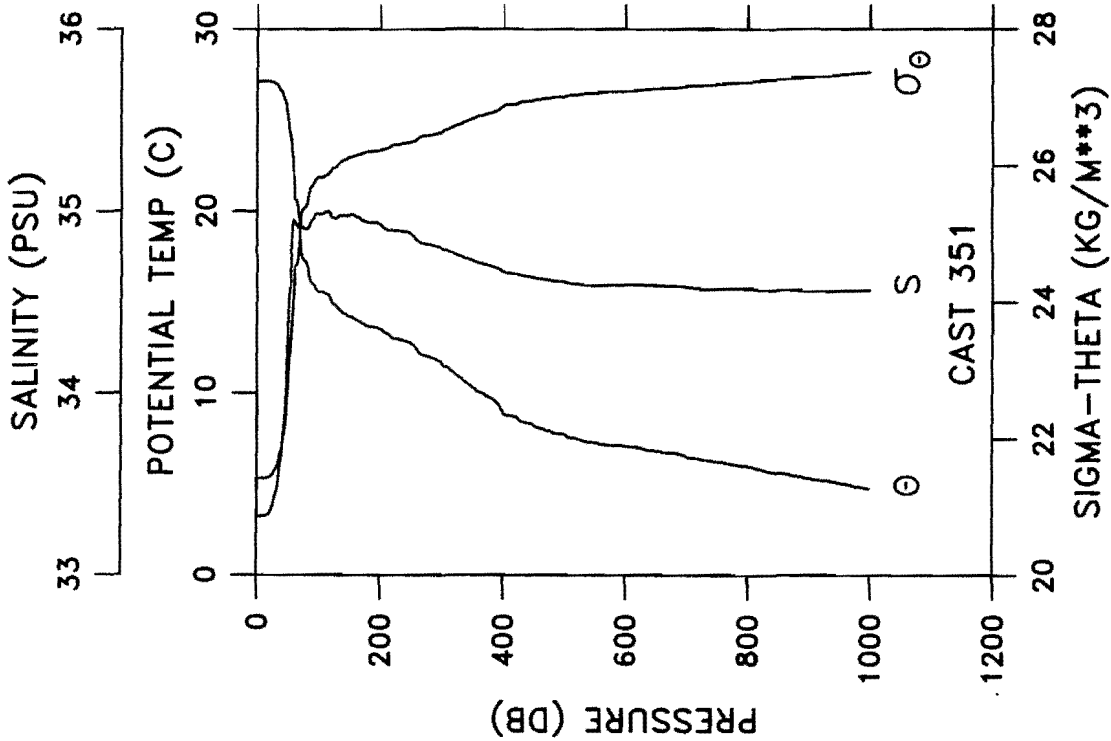


PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.681	34.544	22.790	0.000
10	25.689	34.553	22.794	0.051
20	25.589	34.549	22.822	0.101
30	25.538	34.545	22.835	0.151
40	25.118	34.527	22.950	0.201
50	23.575	34.674	23.521	0.248
60	22.422	34.735	23.899	0.289
70	17.785	34.927	25.270	0.322
80	15.427	34.959	25.847	0.345
90	14.499	34.941	26.036	0.365
100	14.031	34.937	26.133	0.385
110	13.900	34.941	26.163	0.404
120	13.818	34.959	26.194	0.422
130	13.681	34.957	26.221	0.441
140	13.563	34.951	26.241	0.459
150	13.521	34.950	26.249	0.477
160	13.465	34.950	26.260	0.495
170	13.443	34.948	26.264	0.513
180	13.303	34.945	26.289	0.531
190	13.217	34.940	26.303	0.549
200	13.176	34.937	26.309	0.566
250	12.697	34.906	26.381	0.653
300	12.061	34.861	26.470	0.736
350	10.838	34.783	26.636	0.813
400	10.043	34.722	26.728	0.886
450	9.238	34.687	26.835	0.953
500	8.376	34.647	26.940	1.015
550	7.815	34.621	27.004	1.074
600	7.446	34.606	27.046	1.130
650	6.966	34.587	27.099	1.184
700	6.431	34.581	27.166	1.236
750	6.045	34.578	27.213	1.284
800	5.696	34.573	27.254	1.331
800	5.084	34.568	27.324	1.420
1000	4.500	34.570	27.391	1.501
1005	4.495	34.570	27.391	1.505

CAST GP2-99-KA-0341 DATE 24 MAY 99 TIME 2327 GMT
 LAT 03 00.2N LONG 094 58.3W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 172 T SPD 17 KT VISIBILITY 7
 CLOUD 0 AMOUNT 3 DRY 26.0 WET 24.0 DEPTH 2726 M

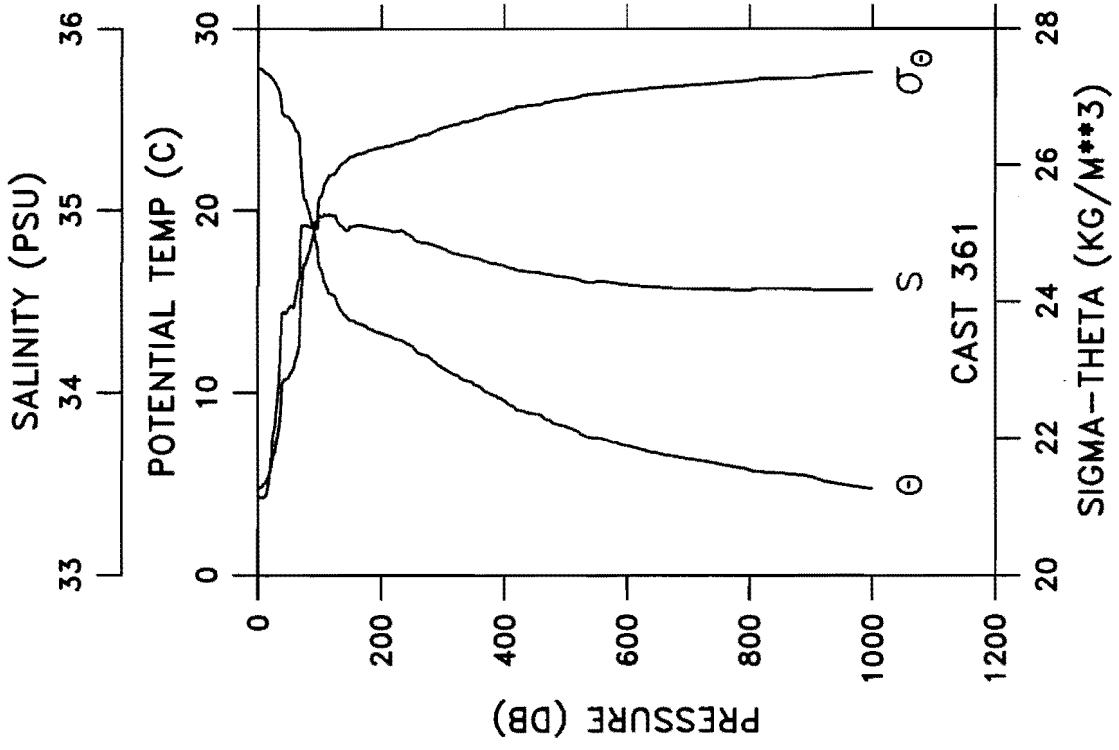


CAST GP2-99-KA-0351 DATE 25 MAY 99 TIME 0529 GMT
 LAT 04 00.11N LONG 094 54.6W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 180 T SPD 10 KT VISIBILITY 7
 CLOUD 0 AMOUNT 3 DRY 27.1 WET 23.9 DEPTH 3268 M



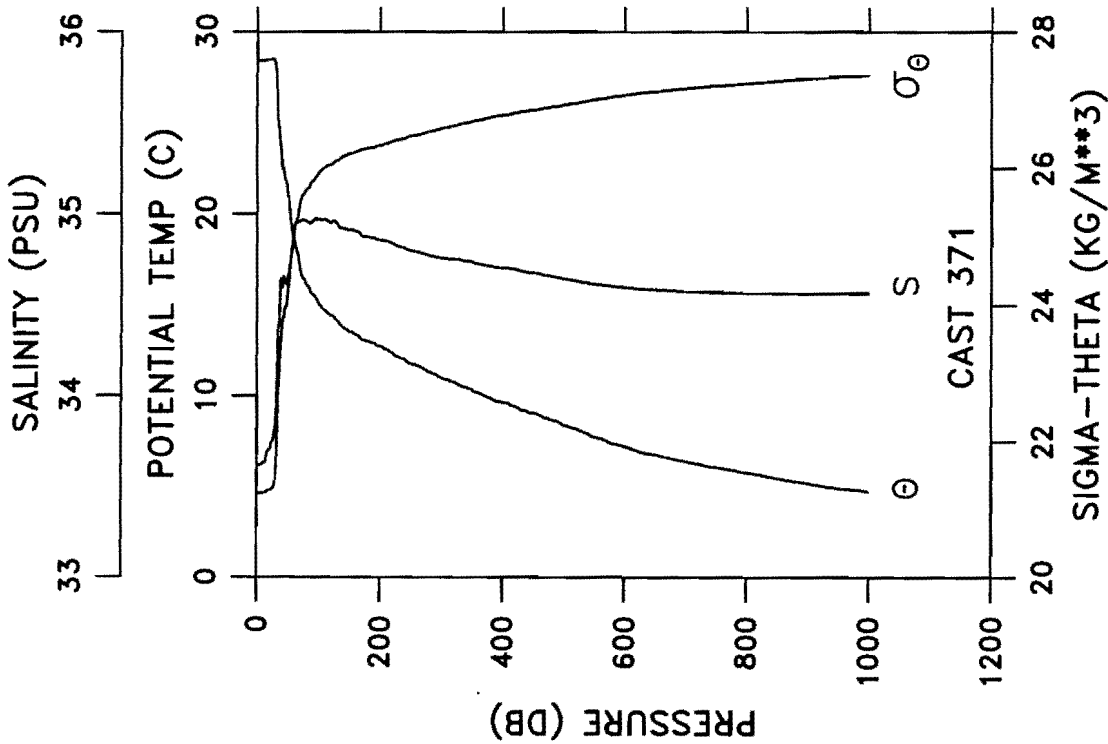
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.132	33.323	21.416	0.000
10	27.131	33.323	21.416	0.064
20	27.123	33.337	21.429	0.127
30	26.991	33.439	21.547	0.191
40	26.577	33.676	21.857	0.252
50	25.181	34.319	22.774	0.308
60	21.827	34.951	24.231	0.352
70	18.508	34.902	25.072	0.385
80	17.060	34.901	25.425	0.412
90	15.993	34.956	25.716	0.436
100	15.583	34.985	25.832	0.458
110	15.494	34.992	25.857	0.480
120	15.073	34.974	25.936	0.502
130	14.712	34.968	26.011	0.522
140	14.407	34.977	26.084	0.542
150	14.223	34.979	26.125	0.562
160	14.056	34.972	26.155	0.581
170	13.837	34.951	26.184	0.600
180	13.680	34.940	26.208	0.618
190	13.621	34.937	26.218	0.637
200	13.533	34.929	26.230	0.655
250	12.735	34.875	26.350	0.744
300	11.641	34.797	26.500	0.827
350	10.337	34.730	26.684	0.903
400	8.921	34.667	26.870	0.971
450	8.205	34.634	26.956	1.032
500	7.757	34.612	27.005	1.089
550	7.284	34.592	27.058	1.144
600	7.085	34.596	27.089	1.198
650	6.829	34.592	27.121	1.251
700	6.522	34.585	27.157	1.302
750	6.222	34.574	27.188	1.352
800	5.972	34.574	27.220	1.400
900	5.301	34.562	27.293	1.492
1000	4.730	34.565	27.361	1.578
1003	4.727	34.565	27.361	1.580

CAST GP2-99-KA-0361 DATE 25 MAY 99 TIME 2104 GMT
 LAT 05 01.1N LONG 094 56.3W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 213 T SPD 10 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 27.2 WET 24.6 DEPTH 3584 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.788	33.427	21.283	0.000
10	27.625	33.427	21.336	0.065
20	27.383	33.594	21.539	0.129
30	26.856	33.910	21.945	0.189
40	25.327	34.438	22.819	0.245
50	25.129	34.461	22.897	0.295
60	24.496	34.505	23.121	0.344
70	22.060	34.906	24.131	0.389
80	20.174	34.914	24.652	0.424
90	18.977	34.931	24.975	0.455
100	16.889	34.968	25.517	0.483
110	15.910	34.974	25.749	0.507
120	15.410	34.973	25.861	0.529
130	14.815	34.930	25.959	0.550
140	14.275	34.895	26.049	0.570
150	13.972	34.909	26.123	0.590
160	13.829	34.917	26.159	0.609
170	13.727	34.914	26.178	0.628
180	13.502	34.907	26.219	0.647
190	13.351	34.901	26.245	0.665
200	13.249	34.894	26.261	0.683
250	12.545	34.853	26.370	0.771
300	11.347	34.790	26.549	0.853
350	10.475	34.740	26.667	0.928
400	9.582	34.696	26.785	0.998
450	8.850	34.661	26.877	1.062
500	8.154	34.634	26.964	1.123
550	7.523	34.612	27.039	1.180
600	7.105	34.593	27.084	1.234
650	6.706	34.581	27.129	1.287
700	6.384	34.574	27.166	1.337
750	6.098	34.569	27.200	1.387
800	5.771	34.565	27.238	1.434
900	5.407	34.568	27.285	1.525
1000	4.734	34.565	27.361	1.611
1003	4.698	34.565	27.365	1.613

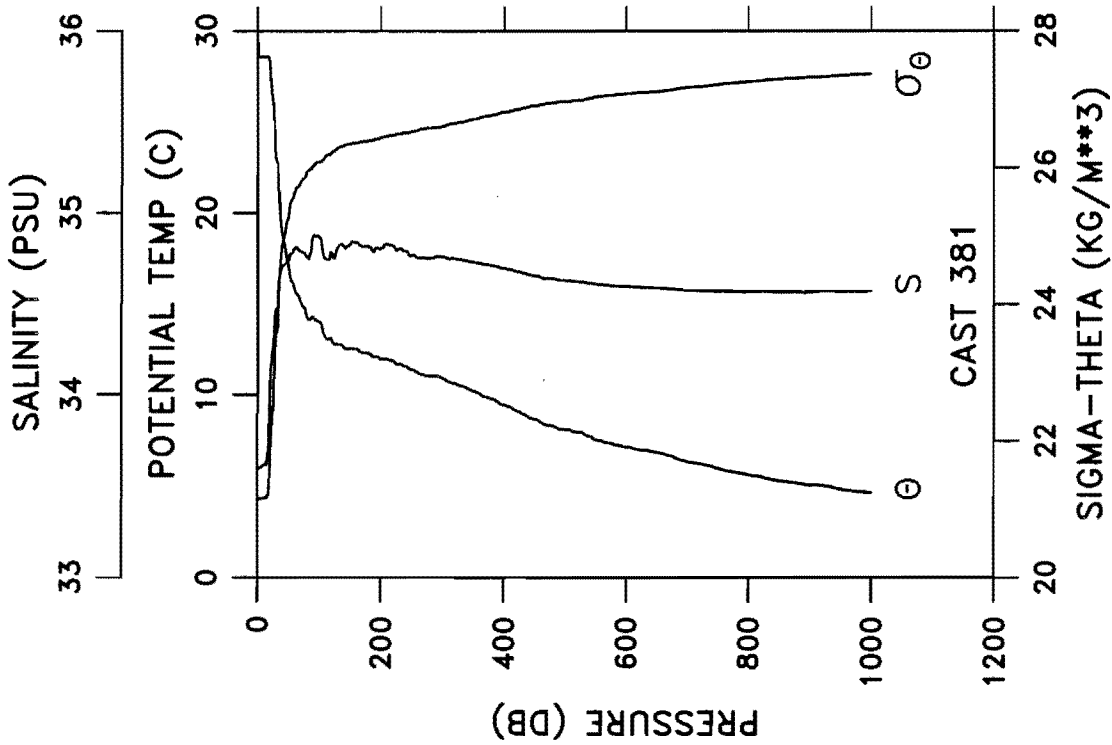
CAST GP2-99-KA-0371 DATE 26 MAY 99 TIME 0344 GMT
 LAT 06 00.0N LONG 094 57.5W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 194 T SPD 10 KT VISIBILITY 5
 CLOUD 3 AMOUNT 5 DRY 27.1 WET 25.3 DEPTH 3745 M



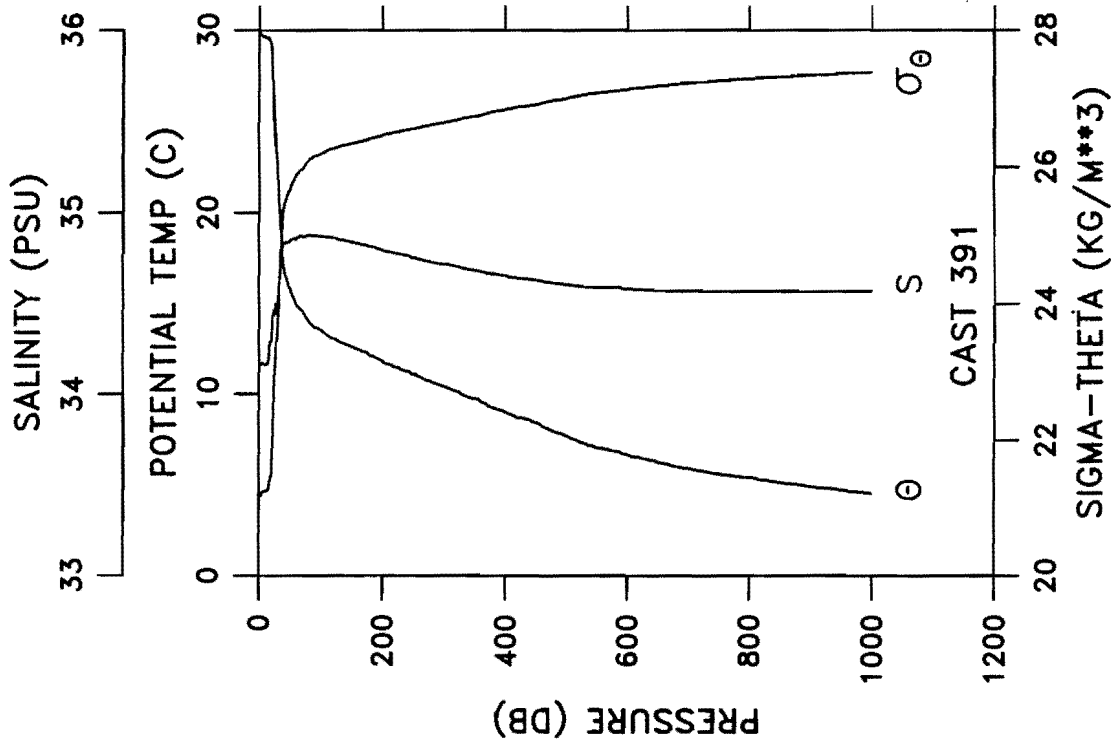
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.385	33.619	21.233	0.000
10	28.415	33.632	21.233	0.066
20	28.462	33.705	21.272	0.131
30	28.191	33.846	21.467	0.196
40	23.139	34.629	23.614	0.247
50	21.102	34.655	24.205	0.287
60	18.683	34.904	25.029	0.320
70	16.891	34.959	25.509	0.347
80	16.123	34.959	25.888	0.371
90	15.597	34.958	25.808	0.394
100	15.105	34.967	25.925	0.415
110	14.719	34.972	26.012	0.436
120	14.446	34.948	26.053	0.456
130	14.146	34.944	26.114	0.475
140	13.762	34.918	26.175	0.494
150	13.531	34.909	26.215	0.513
160	13.385	34.904	26.241	0.531
170	13.111	34.878	26.277	0.549
180	13.003	34.874	26.295	0.567
190	12.915	34.868	26.308	0.585
200	12.733	34.857	26.336	0.602
250	11.773	34.798	26.475	0.686
300	11.014	34.759	26.586	0.764
350	10.335	34.738	26.690	0.838
400	9.658	34.705	26.779	0.907
450	9.074	34.679	26.855	0.972
500	8.408	34.646	26.934	1.035
550	7.750	34.618	27.011	1.094
600	7.231	34.600	27.071	1.149
650	6.782	34.587	27.124	1.202
700	6.390	34.578	27.169	1.253
750	6.060	34.572	27.207	1.301
800	5.776	34.568	27.240	1.349
900	5.164	34.566	27.312	1.438
1000	4.710	34.569	27.366	1.522
1003	4.703	34.568	27.367	1.525

CAST GP2-99-KA-0381 DATE 26 MAY 99 TIME 1016 GMT
 LAT 06 59.4N LONG 094 57.7W WEATHER 6 SEA STATE 2
 BAROMETER 12 WIND DIR 278 T SPD 04 KT VISIBILITY 5
 CLOUD 8 AMOUNT 8 DRY 25.5 WET 25.0 DEPTH 3685 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.574	33.603	21.159	0.000
10	28.581	33.613	21.164	0.066
20	27.889	34.004	21.684	0.132
30	22.867	34.472	23.573	0.184
40	18.825	34.708	24.843	0.221
50	17.181	34.735	25.269	0.250
60	15.841	34.806	25.635	0.275
70	15.066	34.787	25.794	0.298
80	14.265	34.756	25.944	0.320
90	14.296	34.869	26.024	0.340
100	14.020	34.867	26.081	0.360
110	13.206	34.749	26.158	0.379
120	13.057	34.779	26.211	0.398
130	12.806	34.805	26.281	0.416
140	12.619	34.815	26.326	0.433
150	12.568	34.822	26.341	0.450
160	12.535	34.837	26.359	0.467
170	12.344	34.814	26.379	0.484
180	12.312	34.816	26.386	0.501
190	12.117	34.794	26.407	0.518
200	11.995	34.801	26.436	0.534
250	11.389	34.764	26.521	0.614
300	10.948	34.756	26.596	0.691
350	10.216	34.729	26.704	0.764
400	9.460	34.695	26.805	0.832
450	8.687	34.655	26.898	0.896
500	8.121	34.629	26.965	0.956
550	7.539	34.610	27.035	1.014
600	7.152	34.596	27.080	1.068
650	6.874	34.588	27.112	1.121
700	6.331	34.576	27.175	1.172
750	5.995	34.570	27.214	1.221
800	5.645	34.568	27.256	1.268
900	5.077	34.565	27.322	1.356
1000	4.671	34.571	27.373	1.439
1003	4.659	34.572	27.374	1.442

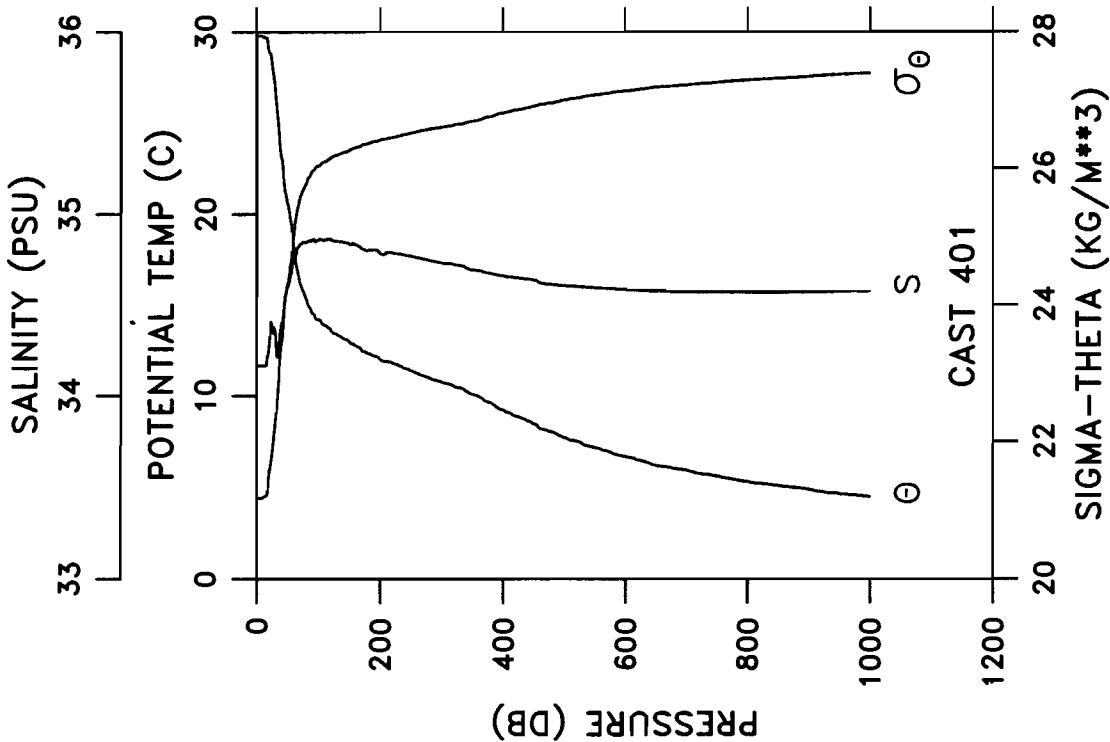


CAST GP2-99-KA-0391 DATE 26 MAY 99 TIME 2013 GMT
 LAT 07 58.7N LONG 094 58.7W WEATHER 0 SEA STATE 2
 BAROMETER 10 WIND DIR 217 T SPD 03 KT VISIBILITY 7
 CLOUD 7 AMOUNT 2 DRY 29.8 WET 25.5 DEPTH 3748 M



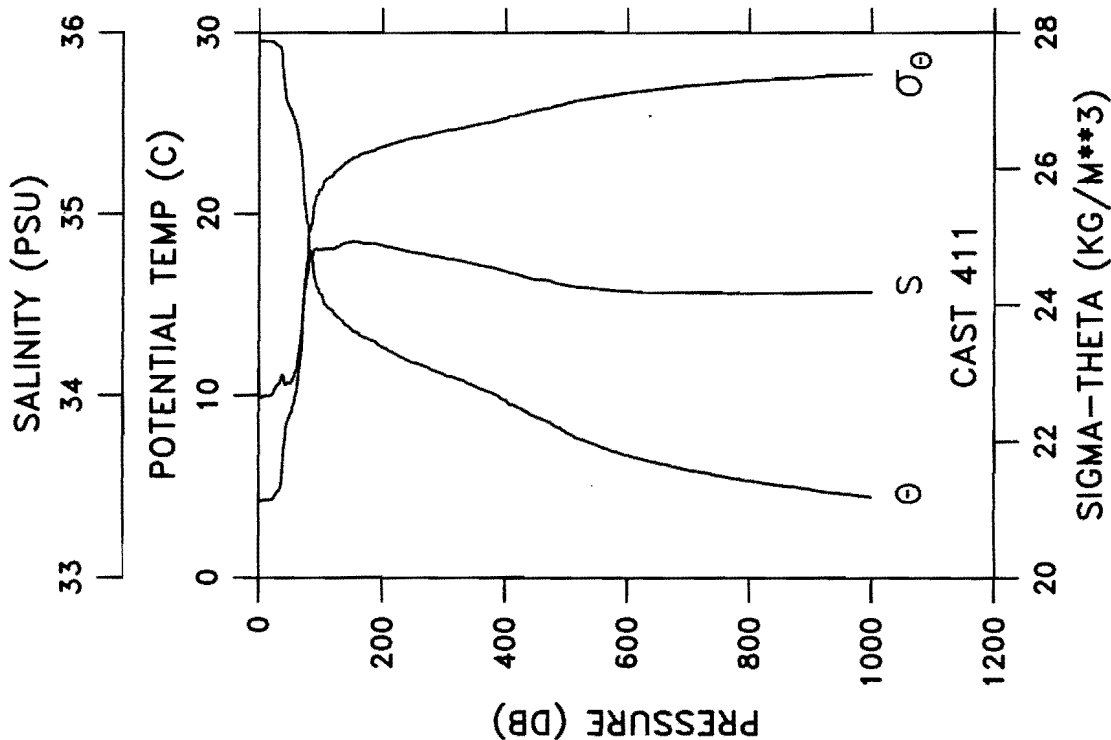
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.791	34.162	21.171	0.000
10	29.598	34.162	21.237	0.066
20	29.131	34.300	21.497	0.131
30	22.737	34.493	23.626	0.181
40	17.014	34.828	25.380	0.214
50	15.848	34.841	25.661	0.238
60	14.949	34.854	25.871	0.261
70	14.583	34.872	25.965	0.282
80	14.020	34.879	26.090	0.302
90	13.673	34.874	26.159	0.321
100	13.521	34.873	26.189	0.339
110	13.244	34.869	26.243	0.357
120	13.069	34.864	26.274	0.375
130	12.885	34.854	26.303	0.393
140	12.749	34.848	26.326	0.410
150	12.601	34.840	26.349	0.427
160	12.481	34.833	26.367	0.444
170	12.330	34.824	26.390	0.461
180	12.122	34.815	26.422	0.478
190	11.982	34.805	26.442	0.494
200	11.817	34.795	26.465	0.510
250	11.106	34.754	26.566	0.589
300	10.454	34.720	26.655	0.663
350	9.791	34.685	26.742	0.733
400	9.039	34.654	26.842	0.799
450	8.460	34.631	26.915	0.862
500	7.728	34.607	27.005	0.920
550	7.070	34.591	27.087	0.975
600	6.682	34.582	27.133	1.027
650	6.245	34.574	27.184	1.077
700	5.902	34.573	27.228	1.124
750	5.612	34.568	27.260	1.170
800	5.406	34.571	27.288	1.214
900	4.901	34.568	27.345	1.300
1000	4.529	34.569	27.387	1.381
1003	4.526	34.569	27.387	1.383

CAST GP2-99-KA-0401 DATE 27 MAY 99 TIME 0705 GMT
 LAT 09 00.0N LONG 095 57.9W WEATHER 1 SEA STATE 2
 BAROMETER 10 WIND DIR 215 T SPD 50 KT VISIBILITY 7
 CLOUD 7 AMOUNT 4 DRY 27.7 WET 25.5 DEPTH 3678 M



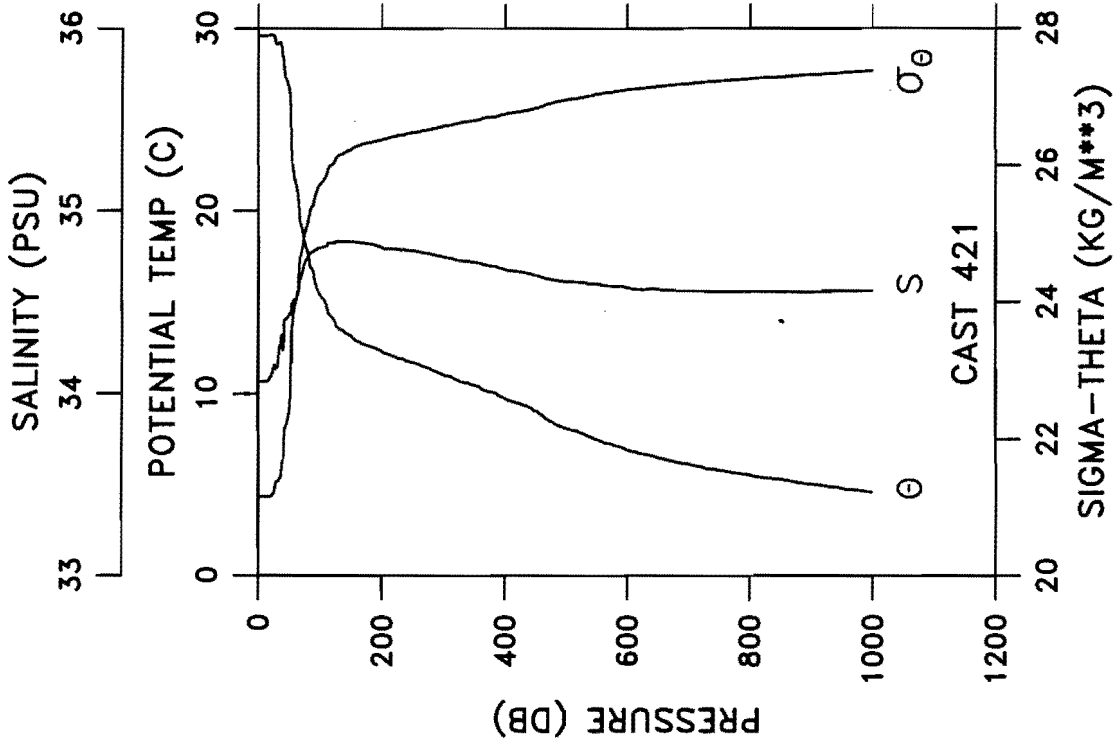
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.787	34.168	21.177	0.000
10	29.754	34.169	21.189	0.066
20	28.913	34.279	21.554	0.131
30	26.866	34.358	22.279	0.191
40	23.073	34.402	23.461	0.241
50	20.594	34.595	24.296	0.281
60	18.223	34.754	25.030	0.314
70	16.149	34.835	25.587	0.340
80	15.334	34.843	25.778	0.364
90	14.530	34.857	25.965	0.385
100	14.185	34.858	26.039	0.405
110	13.886	34.856	26.101	0.425
120	13.607	34.859	26.161	0.444
130	13.374	34.850	26.202	0.462
140	13.168	34.846	26.241	0.481
150	12.984	34.835	26.269	0.499
160	12.775	34.832	26.309	0.516
170	12.508	34.810	26.344	0.534
180	12.339	34.800	26.369	0.551
190	12.207	34.804	26.398	0.568
200	11.995	34.781	26.420	0.584
250	11.398	34.767	26.522	0.665
300	10.764	34.729	26.608	0.741
350	10.088	34.691	26.696	0.814
400	9.238	34.658	26.813	0.882
450	8.473	34.633	26.914	0.946
500	7.721	34.604	27.004	1.004
550	7.153	34.592	27.076	1.060
600	6.659	34.582	27.137	1.112
650	6.193	34.574	27.192	1.161
700	5.929	34.571	27.223	1.209
750	5.607	34.568	27.261	1.254
800	5.301	34.568	27.297	1.299
890	4.890	34.569	27.346	1.384
1000	4.473	34.574	27.397	1.464
1003	4.470	34.574	27.397	1.466

CAST GP2-99-KA-0411 DATE 27 MAY 99 TIME 1659 GMT
 LAT 10 00.1N LONG 097 00.0W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 064 T SPD 03 KT VISIBILITY 7
 CLOUD 7 AMOUNT 6 DRY 31.6 WET 28.0 DEPTH 4043 M



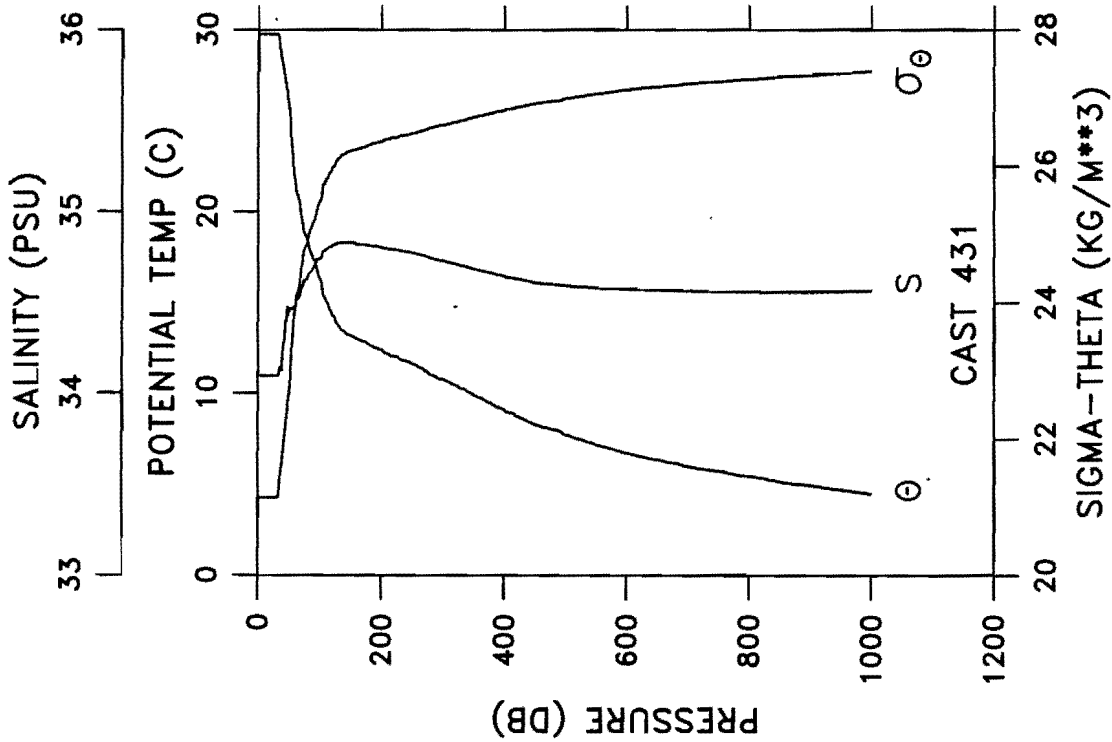
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.565	33.988	21.118	0.000
10	29.533	33.998	21.136	0.067
20	29.524	34.003	21.143	0.133
30	29.306	34.058	21.257	0.199
40	27.488	34.097	21.883	0.263
50	25.844	34.067	22.380	0.319
60	24.972	34.137	22.700	0.372
70	22.737	34.402	23.557	0.421
80	19.028	34.692	24.780	0.457
90	16.464	34.802	25.489	0.485
100	15.575	34.802	25.692	0.509
110	14.885	34.807	25.849	0.531
120	14.657	34.803	25.896	0.553
130	14.222	34.821	26.002	0.574
140	13.884	34.840	26.088	0.594
150	13.627	34.844	26.145	0.613
160	13.438	34.846	26.186	0.632
170	13.176	34.838	26.232	0.650
180	13.042	34.837	26.259	0.668
190	12.868	34.832	26.290	0.686
200	12.651	34.825	26.327	0.704
250	11.803	34.787	26.462	0.788
300	11.177	34.758	26.556	0.867
350	10.514	34.723	26.647	0.943
400	9.763	34.684	26.746	1.014
450	8.854	34.639	26.859	1.080
500	7.994	34.608	26.967	1.142
550	7.319	34.590	27.051	1.198
600	6.746	34.577	27.121	1.251
650	6.292	34.567	27.173	1.301
700	5.900	34.567	27.223	1.349
750	5.606	34.564	27.257	1.396
800	5.316	34.562	27.291	1.440
850	4.854	34.564	27.346	1.525
900	4.428	34.569	27.398	1.605
1000	4.408	34.569	27.400	1.607

CAST GP2-99-KA-0421 DATE 28 MAY 99 TIME 0240 GMT
 LAT 11 00.0N LONG 098 05.1W WEATHER 1 SEA STATE 2
 BAROMETER 10 WIND DIR 066 T SPD 07 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 28.2 WET 25.9 DEPTH 3695 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.616	34.068	21.160	0.000
10	29.619	34.068	21.159	0.066
20	29.642	34.089	21.167	0.132
30	29.120	34.146	21.385	0.198
40	28.384	34.238	21.698	0.261
50	26.841	34.432	22.406	0.318
60	21.577	34.515	23.968	0.363
70	19.094	34.649	24.730	0.399
80	17.646	34.741	25.161	0.429
90	16.487	34.776	25.464	0.456
100	15.410	34.795	25.724	0.480
110	14.889	34.806	25.848	0.502
120	14.171	34.822	26.014	0.523
130	13.542	34.832	26.153	0.542
140	13.368	34.830	26.187	0.561
150	13.172	34.829	26.227	0.579
160	12.884	34.825	26.281	0.597
170	12.720	34.822	26.311	0.615
180	12.607	34.818	26.331	0.632
190	12.510	34.812	26.345	0.650
200	12.313	34.798	26.372	0.667
250	11.709	34.780	26.474	0.749
300	11.018	34.744	26.574	0.828
350	10.474	34.717	26.649	0.903
400	9.739	34.678	26.745	0.974
450	9.071	34.646	26.830	1.041
500	8.099	34.612	26.955	1.103
550	7.497	34.598	27.033	1.161
600	6.907	34.579	27.101	1.215
650	6.489	34.570	27.150	1.267
700	6.150	34.563	27.189	1.316
750	5.808	34.560	27.229	1.364
800	5.549	34.561	27.262	1.410
900	5.054	34.558	27.319	1.498
1000	4.601	34.564	27.375	1.581
1002	4.594	34.564	27.376	1.582

CAST GP2-99-KA-0431 DATE 28 MAY 99 TIME 1508 GMT
 LAT 12 28.4N LONG 099 39.5W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 119 T SPD 04 KT VISIBILITY 7
 CLOUD 7 AMOUNT 7 DRY 28.9 WET 26.1 DEPTH 3500 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.773	34.098	21.130	0.000
10	29.771	34.096	21.129	0.066
20	29.764	34.095	21.130	0.133
30	29.757	34.095	21.132	0.200
40	28.112	34.228	21.780	0.264
50	25.942	34.467	22.651	0.320
60	21.720	34.476	23.899	0.365
70	19.714	34.586	24.522	0.403
80	18.377	34.638	24.903	0.435
90	17.387	34.695	25.188	0.464
100	16.309	34.740	25.477	0.491
110	15.076	34.792	25.796	0.514
120	14.318	34.818	25.979	0.536
130	13.713	34.830	26.116	0.556
140	13.411	34.830	26.179	0.574
150	13.157	34.831	26.231	0.593
160	12.983	34.819	26.257	0.611
170	12.853	34.819	26.282	0.629
180	12.665	34.815	26.317	0.646
190	12.513	34.812	26.345	0.664
200	12.376	34.804	26.365	0.681
250	11.622	34.774	26.466	0.763
300	10.776	34.731	26.606	0.840
350	9.881	34.686	26.727	0.913
400	9.103	34.645	26.824	0.980
450	8.299	34.610	26.923	1.042
500	7.736	34.594	26.995	1.101
550	7.196	34.582	27.062	1.157
600	6.718	34.575	27.123	1.210
650	6.358	34.570	27.167	1.260
700	5.980	34.565	27.211	1.309
750	5.715	34.562	27.243	1.356
800	5.436	34.560	27.275	1.401
900	4.931	34.560	27.334	1.487
1000	4.459	34.566	27.392	1.568
1500	3.037	34.605	27.567	1.917
2000	2.186	34.640	27.669	2.205
2500	1.679	34.666	27.729	2.449
3000	1.627	34.669	27.736	2.687
3302	1.618	34.670	27.736	2.835

CAST GP2-99-KA-0011 LAT 26 06.6N LONG 115 27.9W
 CAST GP2-99-KA-0031 LAT 06 59.9N LONG 110 03.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
52.	17.432	34.045	17.423	24.690	3.	28.635	33.388	28.634	20.978
52.	17.434	34.046	17.425	24.690	11.	28.657	33.398	28.654	20.986
51.	17.432	34.049	17.424	24.690	24.	28.617	34.052	28.611	21.149
51.	17.431	34.050	17.423	24.690	40.	27.317	34.052	27.308	21.917
51.	17.431	34.046	17.423	24.691	61.	20.707	34.660	20.695	24.308
51.	17.432	34.046	17.424	24.691	100.	14.368	34.750	14.354	25.919
52.	17.433	34.047	17.425	24.691	151.	12.446	34.787	12.426	26.343
51.	17.431	34.051	17.423	24.691	199.	11.780	34.770	11.754	26.457
51.	17.423	34.049	17.415	24.690	400.	9.455	34.673	9.410	26.795
51.	17.417	34.053	17.409	24.690	800.	5.560	34.562	5.491	27.269
					1003.	4.570	34.561	4.490	27.385

CAST GP2-99-KA-0011 LAT 26 06.6N LONG 115 27.9W
 CAST GP2-99-KA-0041 LAT 06 00.1N LONG 109 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	28.842	33.712	28.842	21.153	3.	28.479	33.394	28.478	21.043
10.	28.827	33.715	28.824	21.161	9.	28.438	33.400	28.435	21.075
24.	28.768	33.812	28.762	21.250	25.	28.090	33.777	28.085	21.480
40.	28.634	33.926	28.625	21.383	41.	25.609	34.322	25.600	22.619
60.	25.763	34.018	25.750	22.366	60.	21.104	34.709	21.093	24.243
100.	16.407	34.725	16.391	25.445	100.	14.226	34.725	14.212	25.928
150.	13.140	34.804	13.119	26.219	150.	12.187	34.737	12.167	26.353
199.	12.128	34.783	12.102	26.404	201.	11.085	34.714	11.060	26.541
400.	9.249	34.635	9.205	26.802	401.	9.378	34.677	9.333	26.812
601.	6.910	34.554	6.853	27.091	801.	5.584	34.559	5.515	27.265
800.	5.500	34.549	5.432	27.270	1000.	4.559	34.561	4.479	27.386
1002.	4.526	34.560	4.446	27.389					

CAST GP2-99-KA-0021 LAT 08 04.0N LONG 110 15.2W
 CAST GP2-99-KA-0041 LAT 06 00.1N LONG 109 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	28.842	33.712	28.842	21.153	3.	28.479	33.394	28.478	21.043
10.	28.827	33.715	28.824	21.161	9.	28.438	33.400	28.435	21.075
24.	28.768	33.812	28.762	21.250	25.	28.090	33.777	28.085	21.480
40.	28.634	33.926	28.625	21.383	41.	25.609	34.322	25.600	22.619
60.	25.763	34.018	25.750	22.366	60.	21.104	34.709	21.093	24.243
100.	16.407	34.725	16.391	25.445	100.	14.226	34.725	14.212	25.928
150.	13.140	34.804	13.119	26.219	150.	12.187	34.737	12.167	26.353
199.	12.128	34.783	12.102	26.404	201.	11.085	34.714	11.060	26.541
400.	9.249	34.635	9.205	26.802	401.	9.378	34.677	9.333	26.812
601.	6.910	34.554	6.853	27.091	801.	5.584	34.559	5.515	27.265
800.	5.500	34.549	5.432	27.270	1000.	4.559	34.561	4.479	27.386
1002.	4.526	34.560	4.446	27.389					

CAST GP2-99-KA-0051 LAT 05 16.2N LONG 109 57.0W CAST GP2-99-KA-0071 LAT 03 00.2N LONG 110 06.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.578	33.401	28.577	21.004	3.	27.802	34.874	27.802	22.371
10.	28.587	33.396	28.585	20.999	10.	27.797	34.874	27.795	22.368
25.	28.441	33.642	28.435	21.212	25.	22.914	34.701	22.909	23.715
40.	20.527	34.715	20.520	24.410	40.	16.950	34.881	16.944	25.455
60.	14.836	34.757	14.827	25.820	60.	15.675	34.967	15.665	25.824
99.	13.444	34.929	13.430	26.251	101.	13.955	34.931	13.941	26.153
149.	12.696	34.873	12.676	26.358	151.	13.010	34.895	12.990	26.320
201.	12.178	34.843	12.151	26.438	200.	12.531	34.873	12.504	26.399
1002.	4.714	34.562	4.632	27.369	401.	9.865	34.689	9.819	26.746
3000.	1.753	34.672	1.531	27.744	800.	5.699	34.547	5.629	27.244
3500.	1.529	34.684	1.262	27.772	1002.	4.791	34.557	4.709	27.359

CAST GP2-99-KA-0061 LAT 04 00.0N LONG 110 02.7W CAST GP2-99-KA-0081 LAT 02 05.6N LONG 110 10.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.607	33.750	28.607	21.258	3.	27.237	34.891	27.236	22.564
10.	28.607	33.751	28.605	21.256	10.	27.203	34.891	27.201	22.573
24.	25.085	34.523	25.080	22.948	25.	25.540	34.827	25.535	23.050
40.	17.070	34.918	17.064	25.443	40.	20.287	34.804	20.280	24.534
59.	15.505	35.007	15.496	25.868	60.	15.264	34.956	15.255	25.882
101.	14.385	34.991	14.370	26.103	100.	13.522	34.925	13.508	26.235
155.	13.452	34.921	13.431	26.244	151.	12.636	34.893	12.616	26.388
200.	12.874	34.889	12.847	26.338	200.	12.462	34.880	12.436	26.413
400.	10.029	34.705	9.982	26.725	400.	10.165	34.714	10.118	26.709
600.	7.245	34.591	7.187	27.070	801.	5.797	34.555	5.727	27.235
799.	5.783	34.561	5.713	27.240	1002.	4.593	34.560	4.513	27.382
1003.	4.618	34.557	4.537	27.376					

CAST GP2-99-KA-0101 LAT 00 04.4N LONG 109 59.2W CAST GP2-99-KA-0121 LAT 02.00.8S LONG 109 59.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.274	35.212	25.273	23.420	2.	25.484	35.304	25.483	23.427
11.	25.076	35.202	25.074	23.474	10.	25.338	35.301	25.336	23.466
25.	24.154	35.126	24.149	23.689	25.	24.492	35.249	24.487	23.681
41.	18.899	34.870	18.892	24.952	40.	17.466	35.065	17.459	25.453
60.	16.830	35.133	16.820	25.640	60.	14.764	35.034	14.755	26.051
100.	14.661	35.002	14.646	26.051	100.	13.855	34.990	13.841	26.214
150.	13.381	34.905	13.360	26.246	150.	12.732	34.919	12.712	26.388
200.	12.824	34.915	12.797	26.369	200.	12.472	34.891	12.445	26.419
1001.	4.609	34.554	4.528	27.374	400.	9.738	34.725	9.692	26.788
2000.	2.274	34.639	2.133	27.672	600.	7.103	34.583	7.046	27.085
3000.	1.699	34.672	1.478	27.747	800.	5.633	34.548	5.563	27.250
					1003.	4.670	34.559	4.589	27.373

CAST GP2-99-KA-0111 LAT 01 00.1S LONG 109 48.1W CAST GP2-99-KA-0131 LAT 02 59.8S LONG 109 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	24.970	35.210	24.968	23.497	3.	26.517	35.057	26.516	22.917
26.	21.796	34.944	21.791	24.237	11.	26.116	35.050	26.114	23.035
41.	21.958	35.440	21.950	24.566	25.	21.338	35.080	21.333	24.449
60.	19.412	35.471	19.401	25.278	40.	14.904	35.038	14.898	26.020
100.	13.767	34.986	13.753	26.233	60.	14.115	35.005	14.107	26.170
150.	13.202	34.935	13.182	26.308	100.	13.779	34.987	13.764	26.228
199.	12.802	34.914	12.775	26.374	150.	13.215	34.951	13.194	26.318
401.	9.775	34.713	9.729	26.776	201.	12.706	34.913	12.679	26.387
600.	6.978	34.575	6.921	27.094	502.	8.410	34.653	8.358	26.946
799.	5.446	34.543	5.378	27.268	502.	8.397	34.651	8.344	26.948
1003.	4.519	34.551	4.439	27.383	502.	8.403	34.653	8.350	26.947
					502.	8.420	34.937	8.367	26.945

CAST GP2-99-KA-0141 LAT 04 00.0S LONG 109 59.4W CAST GP2-99-KA-0161 LAT 05 59.5S LONG 109 58.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.636	35.047	26.635	22.871	3.	26.099	34.980	26.098	22.991
10.	26.608	35.043	26.606	22.877	10.	26.092	34.979	26.090	22.993
25.	25.973	35.058	25.968	23.063	25.	25.864	34.990	25.858	23.072
40.	16.309	35.076	16.302	25.735	39.	25.680	35.049	25.671	23.123
61.	15.102	35.057	15.093	25.995	60.	19.376	35.309	19.365	25.156
100.	13.530	34.979	13.516	26.271	98.	14.363	35.029	14.348	26.131
149.	13.063	34.932	13.042	26.333	150.	12.597	34.521	12.576	26.413
199.	12.648	34.900	12.621	26.392	202.	11.925	34.866	11.899	26.508
400.	9.484	34.711	9.439	26.821	400.	9.168	34.689	9.124	26.858
599.	7.271	34.597	7.212	27.072	601.	6.889	34.574	6.832	27.109
800.	5.715	34.546	5.645	27.238	800.	5.511	34.540	5.442	27.260
1003.	4.816	34.545	4.734	27.344	1002.	4.553	34.543	4.473	27.373

CAST GP2-99-KA-0151 LAT 04 59.3S LONG 109 59.9W CAST GP2-99-KA-0171 LAT 06 59.6S LONG 109 57.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1.	26.087	35.193	26.087	23.154	4.	26.720	34.847	26.719	22.694
9.	26.060	35.193	26.058	23.162	9.	26.711	34.847	26.709	22.698
25.	25.299	35.132	25.293	23.342	25.	26.656	34.855	26.651	22.722
40.	19.973	35.485	19.966	25.140	39.	26.452	34.897	26.443	22.818
61.	15.915	35.130	15.905	25.868	60.	23.022	35.343	23.010	24.183
100.	13.510	34.968	13.496	26.268	101.	15.570	35.116	15.554	25.934
150.	12.788	34.912	12.768	26.373	150.	12.945	34.941	12.924	26.363
200.	12.375	34.891	12.349	26.436	199.	11.873	34.868	11.847	26.516
399.	9.349	34.588	9.304	26.837	398.	9.233	34.694	9.189	26.848
599.	7.114	34.588	7.056	27.087	600.	6.803	34.572	6.746	27.117
802.	5.659	34.544	5.589	27.243	802.	5.400	34.539	5.332	27.271
					1001.	4.490	34.543	4.411	27.380

CAST GP2-99-KA-0181 LAT 07 59.1S LONG 109 59.8W CAST GP2-99-KA-0201 LAT 06 59.9S LONG 095 05.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.469	34.782	26.469	22.724	3.	26.353	34.963	26.352	22.894
10.	26.471	34.779	26.469	22.723	10.	26.350	34.964	26.347	22.886
25.	26.486	34.784	26.481	22.726	26.	26.151	34.958	26.145	22.859
41.	26.483	34.804	26.474	22.741	41.	19.412	35.363	19.405	25.078
61.	22.212	35.267	22.200	24.375	60.	16.662	35.122	16.652	25.701
402.	9.412	34.705	9.367	26.829	99.	13.918	35.009	13.903	26.210
599.	6.878	34.556	6.821	27.107	149.	12.651	34.920	12.631	26.394
800.	5.325	34.524	5.257	27.277	199.	11.976	34.873	11.950	26.494
1002.	4.489	34.535	4.409	27.377	398.	9.698	34.728	9.652	26.797
					601.	7.200	34.597	7.142	27.078
					800.	5.897	34.560	5.826	27.223
					1001.	4.692	34.541	4.611	27.355

CAST GP2-99-KA-0191 LAT 08 01.6S LONG 095 06.5W CAST GP2-99-KA-0211 LAT 06 00.2S LONG 095 05.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
200.	11.990	34.869	11.964	26.497	3.	25.393	35.043	25.392	23.256
401.	9.624	34.718	9.578	26.802	10.	25.392	35.044	25.389	23.256
601.	6.914	34.577	6.857	27.105	25.	24.237	35.083	24.232	23.635
801.	5.414	34.539	5.346	27.269	39.	19.459	35.065	19.452	24.949
1002.	4.575	34.549	4.495	27.370	59.	16.686	35.126	16.676	25.687
1001.	4.577	34.543	4.497	27.370	101.	13.765	35.018	13.750	26.252
1001.	4.576	34.542	4.496	27.370	150.	12.941	34.941	12.920	26.365
1249.	3.785	34.563	3.691	27.470	199.	12.636	34.927	12.610	26.411
1501.	3.067	34.596	2.958	27.566	399.	10.352	34.762	10.304	26.715
1751.	2.586	34.622	2.462	27.631	600.	7.413	34.604	7.354	27.058
2003.	2.287	34.642	2.146	27.673	798.	5.822	34.556	5.752	27.235
2003.	2.287	34.642	2.146	27.673	1000.	4.834	34.549	4.752	27.347

CAST GP2-99-KA-0221 LAT 05 01.3S LONG 095 04.1W CAST GP2-99-KA-0241 LAT 03 00.0S LONG 095 00.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	25.777	35.236	25.776	23.283	3.	25.924	34.831	25.924	22.931
10.	25.514	35.234	25.512	23.362	9.	25.920	34.831	25.918	22.934
25.	19.104	35.170	19.100	25.110	25.	25.866	34.826	25.860	22.943
40.	16.139	35.102	16.132	25.789	41.	18.535	35.097	18.528	25.193
61.	14.738	35.040	14.729	26.060	59.	14.961	35.092	14.953	26.048
99.	14.094	35.006	14.080	26.175	99.	13.656	34.976	13.642	26.245
199.	12.895	34.919	12.868	26.358	151.	13.408	34.951	13.387	26.278
401.	10.321	34.762	10.273	26.719	201.	13.199	34.938	13.172	26.311
599.	7.490	34.607	7.431	27.049	400.	10.647	34.772	10.598	26.669
800.	5.767	34.552	5.697	27.237	601.	7.463	34.610	7.404	27.055
1002.	4.775	34.551	4.693	27.354	771.	5.906	34.558	5.838	27.224
					1000.	4.527	34.559	4.448	27.388

CAST GP2-99-KA-0231 LAT 04 00.1S LONG 095 02.8W CAST GP2-99-KA-0251 LAT 01 58.2S LONG 095 01.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.531	35.206	25.531	23.337	2.	25.750	34.779	25.750	22.947
11.	25.448	35.203	25.445	23.353	10.	25.621	34.776	25.619	22.985
26.	17.552	35.187	17.547	25.524	27.	25.146	34.831	25.140	23.187
40.	16.054	35.118	16.047	25.824	41.	20.578	35.088	20.570	24.669
61.	14.731	35.064	14.722	26.082	61.	16.348	35.122	16.338	25.764
100.	14.018	34.999	14.003	26.187	102.	13.905	35.001	13.890	26.211
152.	13.778	34.977	13.756	26.223	151.	13.543	34.970	13.522	26.260
201.	13.393	34.955	13.365	26.285	201.	12.979	34.923	12.951	26.342
401.	9.926	34.731	9.879	26.764	400.	9.771	34.725	9.725	26.783
600.	7.830	34.626	7.768	27.015	600.	7.218	34.596	7.160	27.079
801.	5.855	34.556	5.784	27.228	799.	5.605	34.559	5.536	27.261
1001.	4.697	34.557	4.615	27.368	1003.	4.582	34.561	4.502	27.384

CAST GP2-99-KA-0261 LAT 01 29.9S LONG 095 00.1W CAST GP2-99-KA-0281 LAT 00 29.8S LONG 094 59.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	25.477	34.720	25.477	22.986	3.	24.374	34.798	24.373	23.379
10.	25.461	34.721	25.459	22.991	10.	24.312	34.557	24.310	23.396
25.	24.699	34.811	24.694	23.287	25.	23.071	34.786	23.066	23.750
41.	21.774	35.029	21.766	24.347	39.	17.885	34.864	17.878	25.195
60.	17.926	35.157	17.916	25.413	60.	16.916	35.170	16.906	25.667
101.	14.753	35.096	14.738	26.105	100.	14.628	34.930	14.613	26.008
149.	13.763	34.993	13.742	26.238	152.	13.336	34.960	13.314	26.296
199.	13.057	34.926	13.029	26.331	201.	13.049	34.926	13.021	26.332
400.	9.610	34.712	9.564	26.801	401.	9.529	34.702	9.484	26.806
601.	7.098	34.588	7.040	27.090	600.	7.095	34.588	7.038	27.090
800.	5.477	34.550	5.409	27.270	800.	5.708	34.555	5.638	27.247
1001.	4.675	34.556	4.594	27.371	1002.	4.747	34.556	4.666	27.362

CAST GP2-99-KA-0271 LAT 00 59.5S LONG 094 59.2W CAST GP2-99-KA-0291 LAT 00 03.0S LONG 094 58.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	24.879	34.791	24.878	23.222	600.	7.212	34.596	7.154	27.079
10.	24.808	34.792	24.806	23.245	800.	5.718	34.559	5.648	27.248
24.	23.417	34.839	23.412	23.686	999.	4.574	34.557	4.494	27.382
41.	18.743	35.222	18.735	25.269	1251.	3.698	34.582	3.604	27.494
61.	18.776	35.332	18.766	25.341	1499.	3.100	34.607	2.991	27.573
100.	15.309	35.107	15.294	25.987	1750.	2.626	34.626	2.502	27.631
151.	13.864	34.985	13.842	26.209	2000.	2.282	34.642	2.141	27.674
200.	13.042	34.924	13.015	26.333	2248.	2.036	34.654	1.878	27.704
400.	9.600	34.713	9.555	26.802	2501.	1.861	34.664	1.683	27.727
600.	7.066	34.588	7.008	27.094	2751.	1.758	34.674	1.559	27.744
802.	5.581	34.552	5.512	27.260	3000.	1.748	34.676	1.526	27.748
1004.	4.799	34.555	4.717	27.355					

CAST GP2-99-KA-0292 LAT 00 06.5S LONG 094 54.9W CAST GP2-99-KA-0311 LAT 01 00.0N LONG 094 57.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
10.	24.118	34.803	24.116	23.460	2.	24.371	34.808	24.370	23.389
26.	23.435	34.779	23.429	23.641	10.	24.246	34.806	24.244	23.423
41.	19.656	34.827	19.649	24.723	25.	23.935	34.797	23.930	23.510
60.	15.635	34.904	15.626	25.782	40.	23.682	34.794	23.674	23.580
101.	14.755	34.956	14.741	25.999	60.	18.315	34.905	18.305	25.115
151.	13.409	34.959	13.388	26.284	101.	13.832	34.926	13.817	26.170
199.	13.174	34.933	13.147	26.313	151.	13.443	34.946	13.422	26.267
200.	13.173	34.933	13.145	26.313	199.	13.218	34.930	13.190	26.302
200.	13.173	34.933	13.145	26.313	399.	10.127	34.741	10.080	26.736
276.	13.077	34.926	13.039	26.330	599.	7.189	34.593	7.131	27.080
500.	8.139	34.641	8.087	26.978	800.	5.430	34.557	5.361	27.282
					1004.	4.467	34.557	4.388	27.402

CAST GP2-99-KA-0301 LAT 00 30.2N LONG 094 55.5W CAST GP2-99-KA-0321 LAT 01 30.2N LONG 094 59.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	24.390	34.814	24.389	23.387	4.	25.524	34.702	25.523	22.959
10.	24.177	34.811	24.174	23.448	11.	25.506	34.703	25.504	22.965
25.	23.304	34.793	23.299	23.687	25.	24.564	34.661	24.559	23.221
40.	17.562	34.885	17.555	25.288	41.	23.992	34.671	23.984	23.408
61.	15.027	34.915	15.018	25.902	60.	19.017	34.896	19.006	24.936
101.	14.009	34.932	13.994	26.138	100.	14.193	34.938	14.179	26.102
151.	13.418	34.955	13.397	26.279	150.	13.391	34.941	13.370	26.274
200.	13.200	34.932	13.173	26.307	200.	13.196	34.933	13.168	26.308
402.	9.979	34.728	9.932	26.753	399.	9.934	34.731	9.887	26.759
600.	7.344	34.602	7.285	27.067	600.	7.363	34.601	7.304	27.061
800.	5.230	34.553	5.163	27.303	801.	5.524	34.567	5.455	27.279
1001.	4.550	34.560	4.470	27.387	1001.	4.613	34.567	4.532	27.384

CAST GP2-99-KA-0331 LAT 01 59.8N LONG 095 01.6W CAST GP2-99-KA-0351 LAT 04 00.1N LONG 094 54.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	25.661	34.557	25.660	22.806	2.	27.133	33.288	27.133	21.388
10.	25.584	34.557	25.582	22.830	11.	27.136	33.291	27.134	21.388
25.	25.529	34.555	25.523	22.846	25.	27.101	33.358	27.095	21.450
41.	25.165	34.526	25.156	22.933	40.	26.648	33.665	26.639	21.856
60.	22.635	34.708	22.622	23.813	60.	23.116	34.838	23.104	23.801
101.	13.944	34.933	13.929	26.151	100.	15.624	34.977	15.608	25.819
151.	13.540	34.948	13.519	26.247	150.	14.263	34.973	14.241	26.116
201.	13.192	34.934	13.164	26.308	201.	13.566	34.925	13.538	26.226
401.	10.027	34.722	9.981	26.737	400.	8.954	34.659	8.910	26.865
601.	7.450	34.604	7.391	27.051	601.	7.138	34.595	7.080	27.088
801.	5.797	34.572	5.727	27.248	800.	6.021	34.572	5.949	27.221
1005.	4.574	34.571	4.494	27.392	1003.	4.809	34.567	4.727	27.361

CAST GP2-99-KA-0341 LAT 03 00.2N LONG 094 58.3W CAST GP2-99-KA-0361 LAT 05 01.1N LONG 094 56.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.559	33.406	26.559	21.658	3.	27.743	33.425	27.742	21.296
10.	26.500	33.406	26.497	21.681	10.	27.627	33.425	27.625	21.335
25.	26.239	33.550	26.234	21.865	25.	27.110	33.849	27.104	21.821
40.	24.202	34.656	24.193	23.318	40.	25.420	34.428	25.411	22.786
60.	15.637	34.904	15.628	25.769	61.	24.552	34.476	24.539	23.093
99.	14.141	34.932	14.126	26.109	100.	17.097	34.939	17.081	25.455
151.	13.519	34.926	13.498	26.236	151.	13.999	34.905	13.977	26.119
200.	13.143	34.928	13.116	26.314	201.	13.222	34.886	13.194	26.267
400.	10.244	34.709	10.197	26.692	400.	9.561	34.687	9.515	26.789
600.	7.613	34.612	7.553	27.035	600.	7.145	34.588	7.087	27.083
799.	6.028	34.576	5.956	27.223	799.	5.836	34.563	5.765	27.237
1001.	4.842	34.567	4.760	27.360	1003.	4.781	34.565	4.699	27.364

CAST GP2-99-KA-0411 LAT 10 00.1N LONG 097 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.611	34.002	29.610	21.112
10.	29.542	33.998	29.540	21.133
25.	29.379	34.038	29.373	21.218
40.	26.348	34.048	26.339	22.211
59.	24.490	34.176	24.478	22.879
100.	15.149	34.785	15.134	25.776
150.	13.497	34.836	13.476	26.170
200.	12.581	34.812	12.554	26.335
400.	9.804	34.676	9.758	26.740
600.	6.810	34.570	6.753	27.115
800.	5.388	34.561	5.320	27.289
1003.	4.488	34.569	4.409	27.400

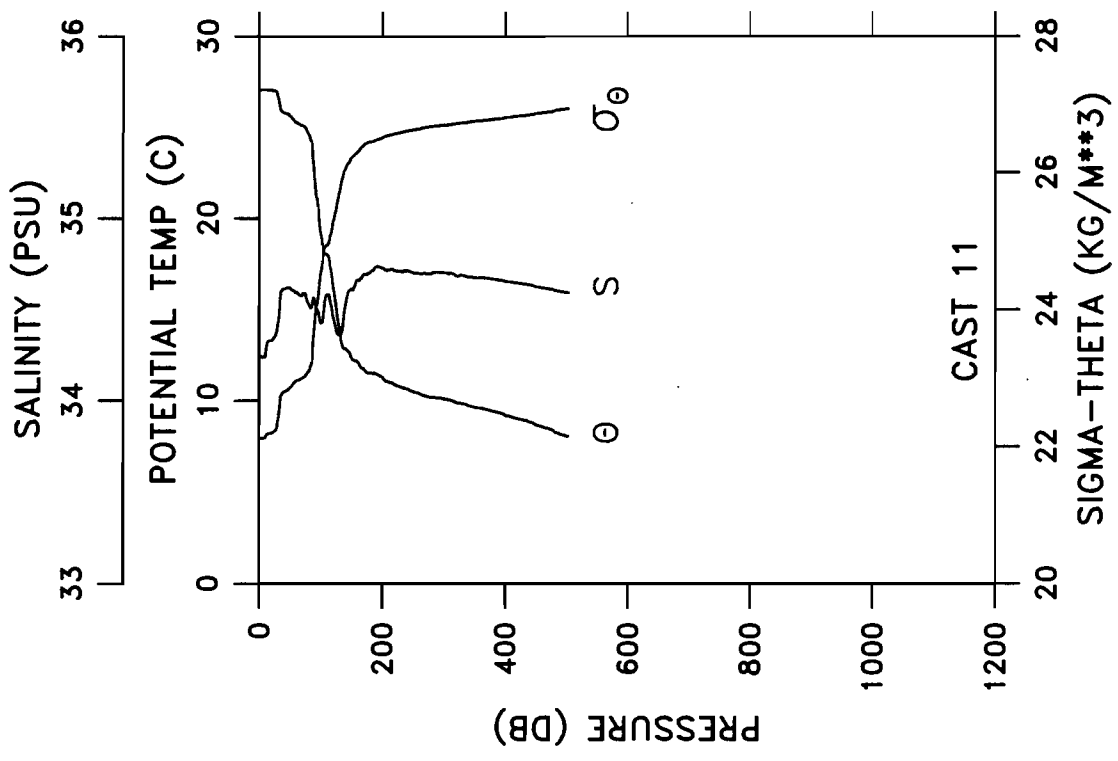
CAST GP2-99-KA-0421 LAT 11 00.0N LONG 098 05.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.623	34.067	29.622	21.158
10.	29.638	34.074	29.635	21.159
25.	29.659	34.118	29.652	21.179
40.	28.891	34.318	28.882	21.595
60.	22.095	34.494	22.083	23.792
99.	15.648	34.777	15.633	25.659
151.	13.134	34.823	13.113	26.233
200.	12.338	34.791	12.312	26.367
400.	9.656	34.667	9.610	26.758
600.	6.973	34.576	6.916	27.097
800.	5.620	34.558	5.551	27.259
1002.	4.674	34.563	4.593	27.376

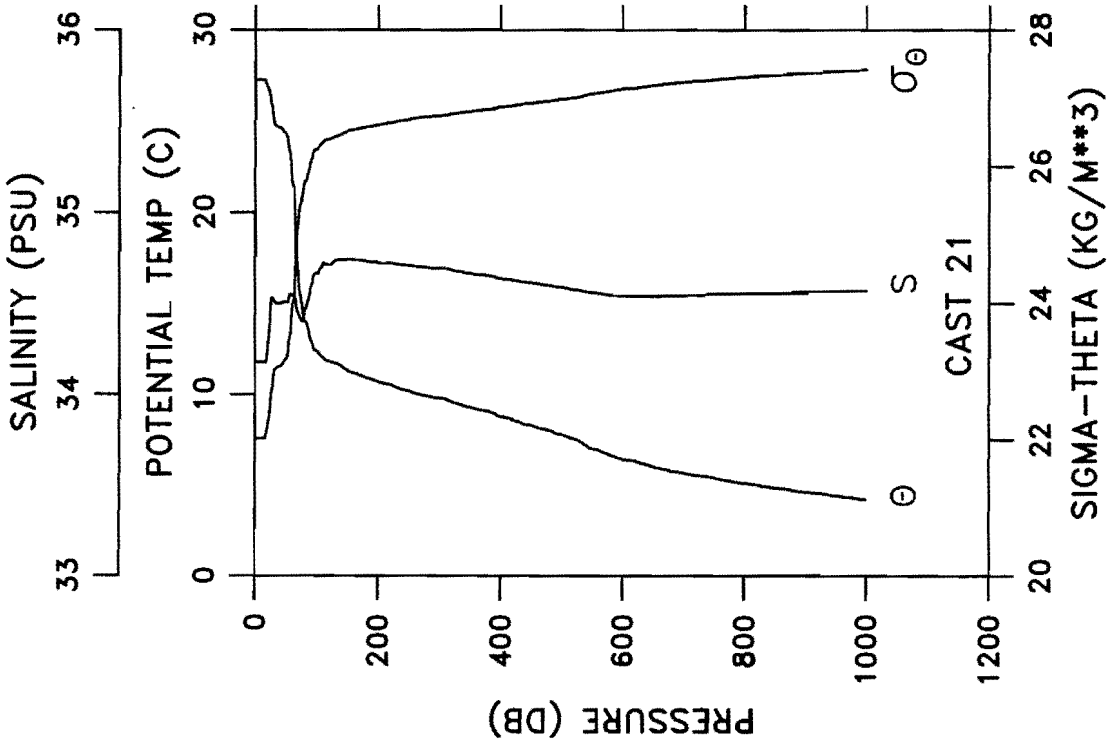
GP3-99-KA
July 3–July 30, 1999
CTD and Hydrographic Data Summary

CAST GP3-99-KA-0011 DATE 03 JUL 99 TIME 2353 GMT
 LAT 10 11.6N LONG 155 30.5W WEATHER 5 SEA STATE 3
 BAROMETER 12 WIND DIR 068 T SPD 02 KT VISIBILITY 7
 CLOUD 5 AMOUNT 8 DRY 25.0 WET 22.5 DEPTH 5272 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.073	34.243	22.127	0.000
10	27.070	34.246	22.130	0.057
20	27.061	34.331	22.197	0.113
30	26.752	34.415	22.358	0.169
40	25.814	34.614	22.802	0.221
50	25.636	34.617	22.859	0.272
60	25.265	34.597	22.958	0.321
70	25.105	34.588	23.000	0.371
80	24.637	34.529	23.096	0.419
90	22.267	34.551	23.803	0.465
100	19.138	34.427	24.549	0.502
110	18.045	34.581	24.941	0.534
120	16.176	34.458	25.291	0.563
130	13.905	34.358	25.711	0.588
140	12.857	34.530	26.058	0.609
150	12.322	34.612	26.226	0.628
160	12.117	34.666	26.308	0.646
170	11.729	34.696	26.405	0.663
180	11.522	34.704	26.449	0.679
190	11.473	34.737	26.484	0.695
200	11.297	34.730	26.512	0.711
250	10.513	34.703	26.632	0.786
300	10.123	34.704	26.700	0.857
350	9.654	34.677	26.759	0.926
400	9.214	34.656	26.815	0.993
450	8.704	34.626	26.873	1.058
500	8.080	34.595	26.944	1.119
503	8.069	34.594	26.945	1.123

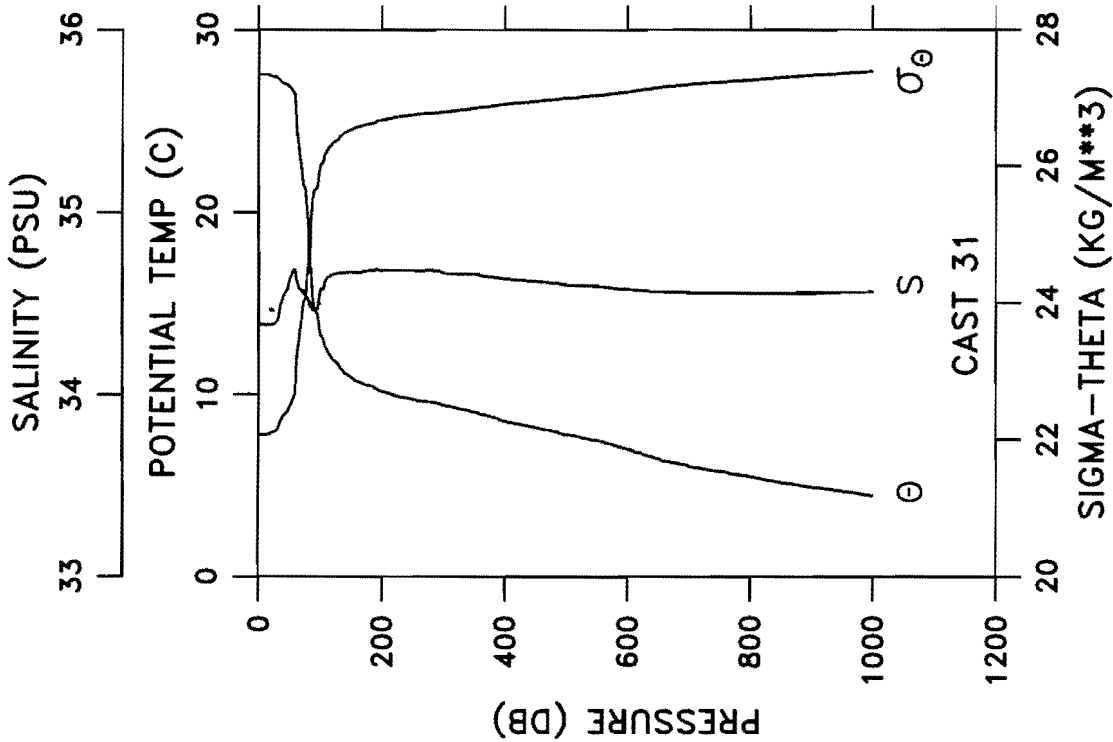


CAST GP3-99-KA-0021 DATE 04 JUL 99 TIME 1535 GMT
 LAT 07 59.1N LONG 155 00.9W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 067 T SPD 07 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 26.4 WET 24.5 DEPTH 5142 M



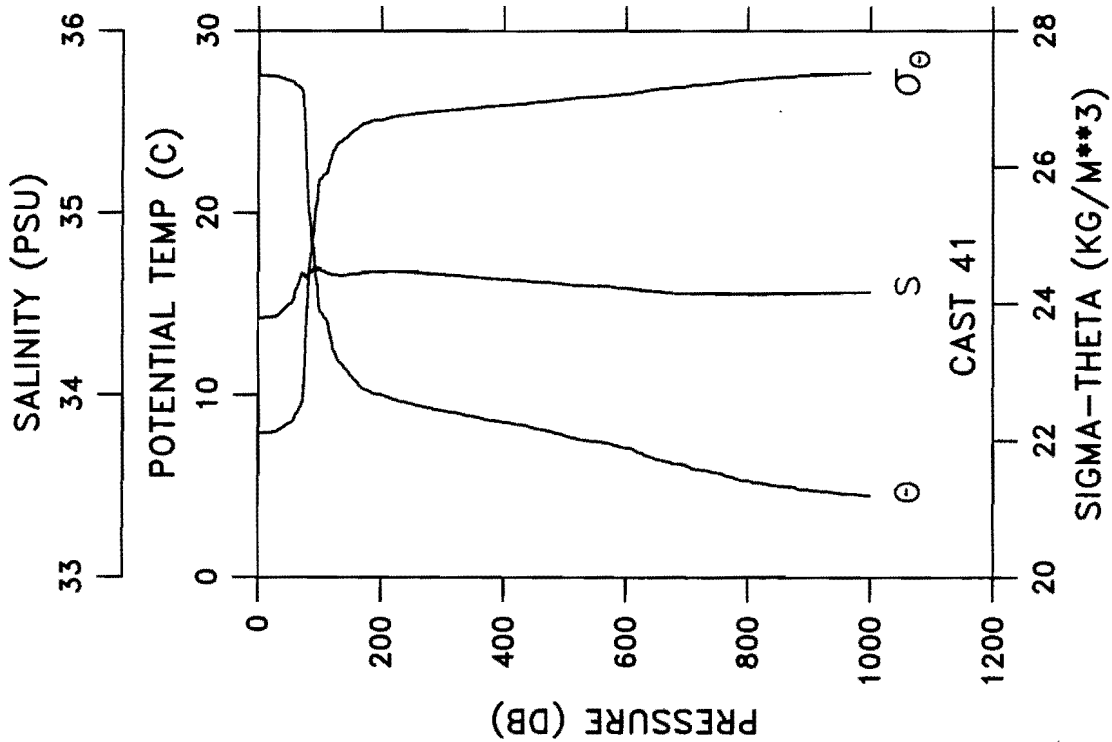
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.259	34.180	22.020	0.000
10	27.258	34.179	22.019	0.058
20	26.869	34.245	22.193	0.116
30	25.070	34.520	22.959	0.169
40	24.622	34.497	23.077	0.217
50	24.257	34.506	23.193	0.264
60	21.730	34.542	23.947	0.309
70	16.623	34.439	25.174	0.343
80	13.992	34.463	25.775	0.368
90	13.015	34.582	26.067	0.390
100	12.404	34.663	26.250	0.408
110	12.056	34.718	26.360	0.425
120	11.817	34.710	26.399	0.442
130	11.730	34.732	26.433	0.458
140	11.575	34.740	26.468	0.474
150	11.322	34.741	26.516	0.490
160	11.186	34.738	26.538	0.505
170	11.069	34.737	26.558	0.521
180	10.948	34.731	26.576	0.536
190	10.846	34.726	26.591	0.550
200	10.720	34.722	26.610	0.565
250	10.218	34.708	26.687	0.637
300	9.822	34.692	26.742	0.706
350	9.323	34.664	26.803	0.772
400	8.780	34.635	26.867	0.837
450	8.316	34.613	26.922	0.898
500	7.797	34.588	26.981	0.957
550	7.012	34.558	27.069	1.014
600	6.389	34.542	27.140	1.066
650	6.015	34.539	27.187	1.115
700	5.667	34.542	27.233	1.162
750	5.405	34.547	27.269	1.208
800	5.092	34.552	27.309	1.251
900	4.623	34.560	27.369	1.334
1000	4.219	34.571	27.422	1.411
1002	4.211	34.570	27.422	1.413

CAST GP3-99-KA-0031 DATE 05 JUL 99 TIME 1004 GMT
 LAT 07 00.3N LONG 155 01.1W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 023 T SPD 10 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 26.1 WET 23.8 DEPTH 5020 M



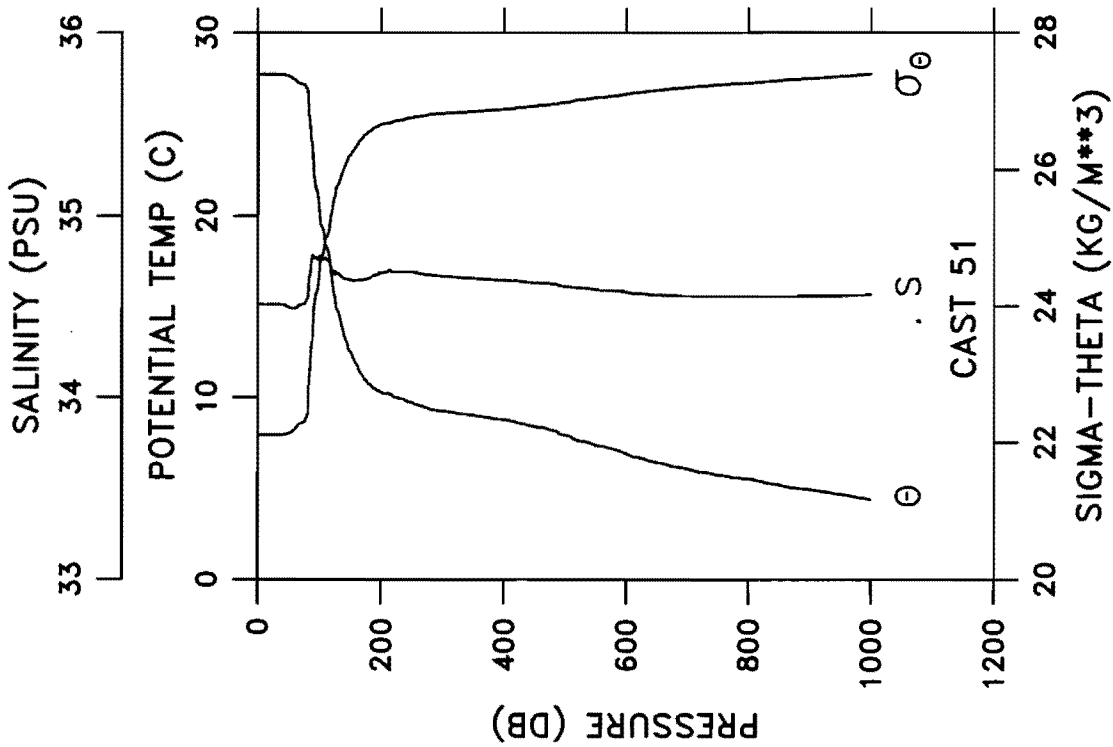
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.547	34.389	22.084	0.000
10	27.542	34.382	22.081	0.057
20	27.473	34.382	22.103	0.115
30	27.379	34.401	22.148	0.172
40	27.044	34.538	22.358	0.228
50	26.846	34.624	22.485	0.282
60	25.796	34.661	22.843	0.335
70	22.309	34.568	23.804	0.380
80	19.553	34.516	24.511	0.418
90	14.673	34.470	25.635	0.446
100	13.318	34.569	25.996	0.468
110	12.511	34.632	26.205	0.488
120	11.949	34.658	26.334	0.506
130	11.606	34.664	26.403	0.523
140	11.161	34.665	26.486	0.539
150	10.961	34.671	26.527	0.554
160	10.730	34.669	26.566	0.569
170	10.589	34.674	26.595	0.584
180	10.497	34.679	26.615	0.599
190	10.356	34.686	26.646	0.613
200	10.188	34.682	26.672	0.627
250	9.753	34.682	26.746	0.696
300	9.427	34.666	26.787	0.762
350	9.051	34.660	26.844	0.827
400	8.528	34.633	26.906	0.890
450	8.197	34.619	26.945	0.950
500	7.780	34.601	26.993	1.008
550	7.472	34.592	27.031	1.065
600	6.982	34.578	27.088	1.119
650	6.470	34.563	27.147	1.171
700	6.053	34.555	27.195	1.220
750	5.782	34.556	27.229	1.268
800	5.499	34.555	27.263	1.314
900	4.916	34.556	27.333	1.401
1000	4.449	34.563	27.391	1.482
1002	4.445	34.563	27.391	1.484

CAST GP3-99-KA-0041 DATE 05 JUL 99 TIME 1719 GMT
 LAT 06 00.8N LONG 155 02.3W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 113 T SPD 11 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 25.5 WET 23.9 DEPTH 4883 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.544	34.420	22.109	0.000
10	27.541	34.421	22.111	0.057
20	27.534	34.424	22.115	0.114
30	27.491	34.431	22.134	0.171
40	27.382	34.462	22.192	0.228
50	27.273	34.494	22.251	0.284
60	27.049	34.571	22.381	0.340
70	26.776	34.661	22.535	0.394
80	21.721	34.840	24.024	0.442
90	17.960	34.687	25.043	0.475
100	14.539	34.693	25.836	0.500
110	14.148	34.670	25.902	0.521
120	12.723	34.656	26.182	0.541
130	11.826	34.655	26.354	0.559
140	11.454	34.656	26.425	0.576
150	11.066	34.663	26.501	0.592
160	10.716	34.658	26.561	0.607
170	10.351	34.669	26.634	0.622
180	10.214	34.672	26.660	0.636
190	10.073	34.675	26.686	0.650
200	10.034	34.672	26.690	0.664
250	9.524	34.672	26.776	0.731
300	9.144	34.659	26.828	0.796
350	8.827	34.646	26.869	0.858
400	8.510	34.633	26.908	0.920
450	8.171	34.620	26.950	0.980
500	7.780	34.606	26.997	1.038
550	7.465	34.597	27.036	1.094
600	7.109	34.584	27.077	1.149
650	6.470	34.567	27.149	1.201
700	6.116	34.558	27.188	1.251
750	5.730	34.554	27.234	1.298
800	5.294	34.553	27.287	1.343
900	4.793	34.559	27.349	1.428
1000	4.487	34.564	27.387	1.509
1004	4.484	34.563	27.387	1.512

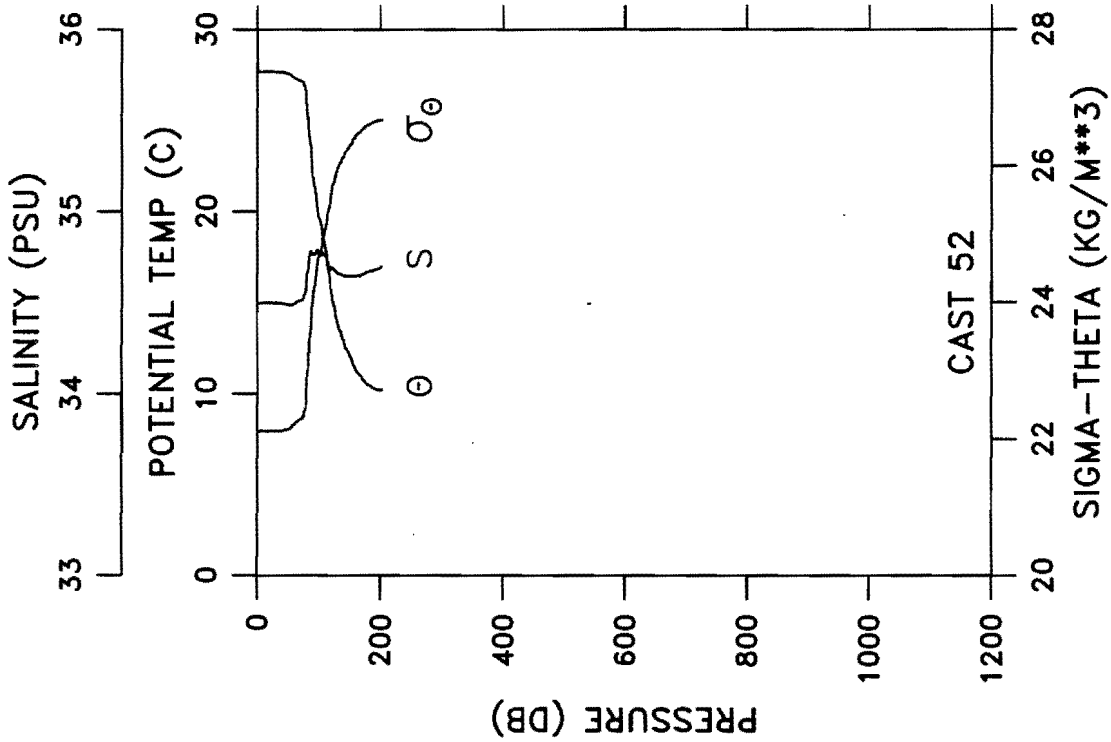
CAST GP3-99-KA-0051 DATE 06 JUL 99 TIME 1057 GMT
 LAT 05 02.3N LONG 154 54.8W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 122 T SPD 08 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.7 WET 23.0 DEPTH 4609 M



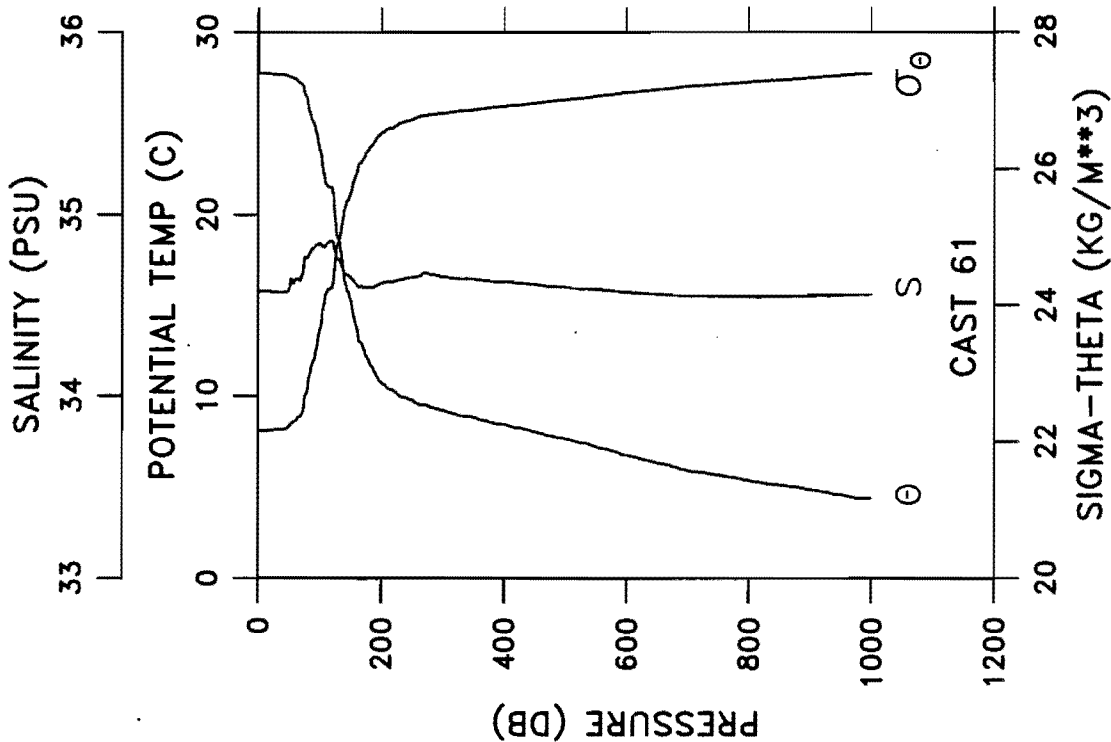
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.745	34.510	22.111	0.000
10	27.745	34.511	22.112	0.057
20	27.743	34.511	22.113	0.114
30	27.740	34.510	22.113	0.171
40	27.737	34.510	22.114	0.229
50	27.644	34.497	22.134	0.286
60	27.443	34.488	22.193	0.343
70	27.207	34.510	22.285	0.399
80	26.925	34.540	22.397	0.454
90	23.081	34.772	23.739	0.502
100	20.381	34.779	24.493	0.540
110	18.395	34.767	24.997	0.572
120	16.560	34.692	25.383	0.600
130	14.744	34.682	25.783	0.624
140	13.381	34.655	26.049	0.645
150	12.514	34.644	26.214	0.664
160	11.852	34.643	26.340	0.682
170	11.204	34.644	26.462	0.699
180	10.736	34.655	26.554	0.714
190	10.484	34.671	26.611	0.729
200	10.272	34.686	26.661	0.743
250	9.723	34.691	26.758	0.812
300	9.237	34.665	26.818	0.877
350	9.023	34.654	26.844	0.941
400	8.763	34.643	26.877	1.004
450	8.398	34.630	26.923	1.065
500	7.921	34.610	26.980	1.125
550	7.347	34.593	27.049	1.181
600	6.884	34.577	27.102	1.235
650	6.375	34.562	27.158	1.286
700	6.037	34.557	27.199	1.335
750	5.710	34.555	27.237	1.382
800	5.492	34.553	27.263	1.428
900	4.919	34.556	27.333	1.515
1000	4.368	34.566	27.402	1.596
1500	2.978	34.605	27.572	1.945
2000	2.119	34.643	27.676	2.226
2500	1.684	34.667	27.729	2.470
3000	1.514	34.675	27.748	2.703
3500	1.278	34.685	27.774	2.929
4000	1.088	34.695	27.794	3.146
4011	1.085	34.695	27.795	3.151

CAST GP3-99-KA-0052 DATE 06 JUL 99 TIME 1252 GMT
 LAT 05 01.5N LONG 154 54.1W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 118 T SPD 09 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.7 WET 23.0 DEPTH 4610 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.694	34.495	22.116	0.000
10	27.693	34.498	22.119	0.057
20	27.692	34.498	22.119	0.114
30	27.683	34.496	22.121	0.171
40	27.668	34.494	22.124	0.228
50	27.589	34.488	22.145	0.285
60	27.351	34.493	22.226	0.342
70	27.177	34.512	22.296	0.398
80	25.707	34.633	22.849	0.453
90	22.055	34.762	24.023	0.497
100	19.662	34.768	24.674	0.533
110	18.111	34.756	25.059	0.564
120	15.653	34.692	25.590	0.591
130	13.865	34.659	25.953	0.614
140	12.937	34.647	26.133	0.634
150	12.074	34.641	26.297	0.652
160	11.276	34.646	26.450	0.669
170	10.830	34.654	26.537	0.684
180	10.512	34.668	26.605	0.699
190	10.287	34.679	26.653	0.714
200	10.207	34.689	26.674	0.728
202	10.233	34.699	26.677	0.731



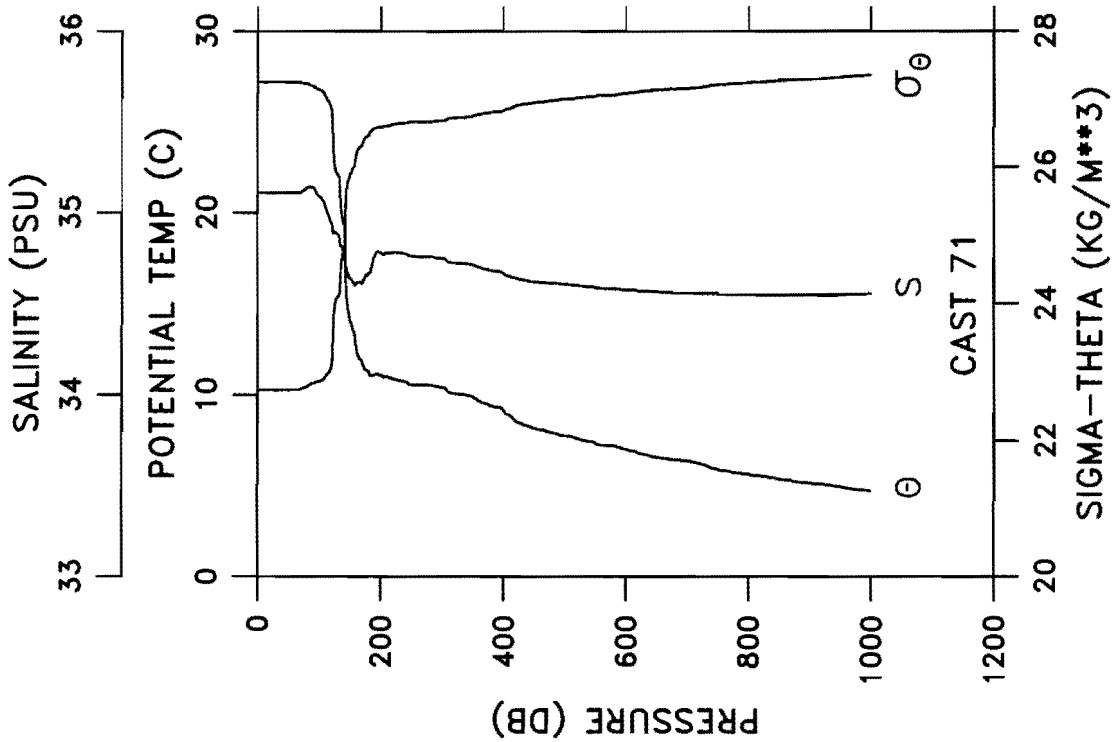
CAST GP3-99-KA-0061 DATE 07 JUL 99 TIME 0056 GMT
 LAT 04 01.7N LONG 154 57.8W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 109 T SPD 19 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 28.1 WET 24.5 DEPTH 4696 M



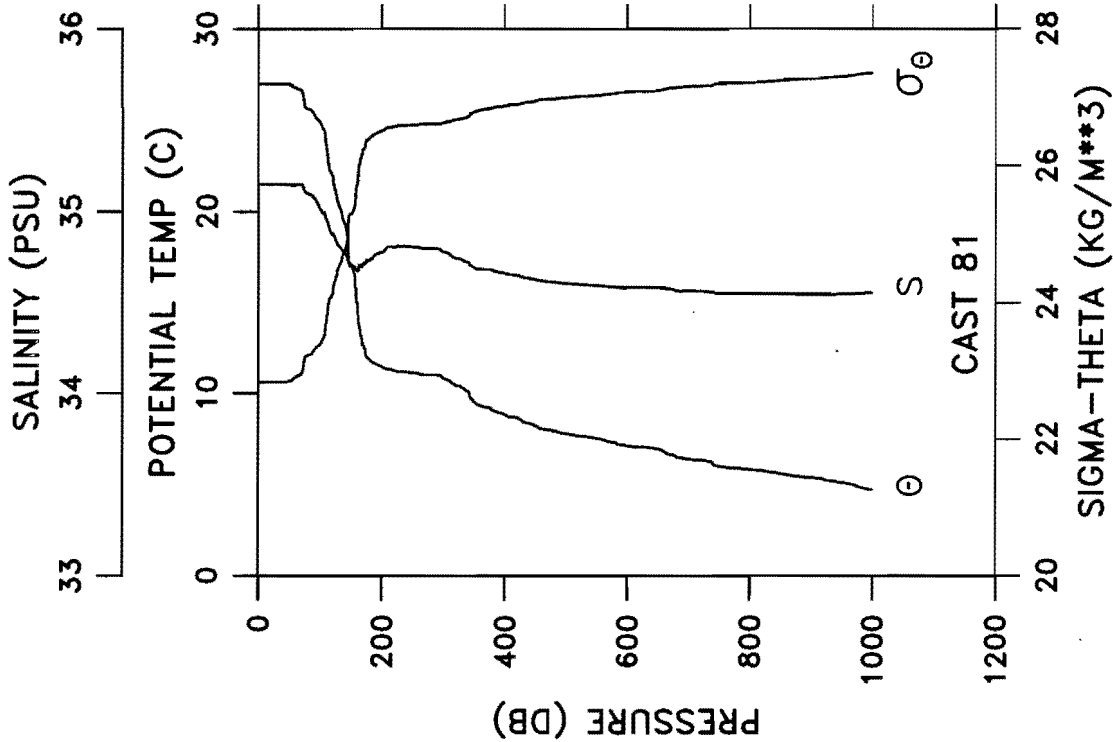
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.757	34.578	22.158	0.000
10	27.748	34.579	22.162	0.057
20	27.727	34.577	22.168	0.113
30	27.686	34.574	22.178	0.170
40	27.670	34.573	22.183	0.226
50	27.567	34.590	22.229	0.283
60	27.447	34.639	22.305	0.339
70	27.194	34.659	22.401	0.394
80	26.302	34.759	22.759	0.447
90	25.042	34.816	23.191	0.495
100	23.574	34.836	23.644	0.540
110	21.707	34.833	24.174	0.581
120	21.472	34.856	24.256	0.618
130	18.657	34.750	24.918	0.652
140	16.356	34.677	25.418	0.680
150	15.300	34.659	25.643	0.705
160	13.790	34.616	25.935	0.728
170	12.726	34.601	26.139	0.747
180	11.924	34.598	26.292	0.766
190	11.317	34.605	26.411	0.783
200	10.758	34.620	26.523	0.799
250	9.780	34.653	26.719	0.871
300	9.226	34.657	26.814	0.937
350	8.857	34.644	26.862	1.000
400	8.465	34.630	26.913	1.061
450	8.058	34.615	26.963	1.121
500	7.651	34.599	27.011	1.178
550	7.209	34.587	27.064	1.234
600	6.749	34.573	27.117	1.287
650	6.332	34.561	27.163	1.337
700	5.921	34.554	27.210	1.386
750	5.686	34.552	27.238	1.433
800	5.379	34.548	27.273	1.478
900	4.882	34.553	27.335	1.565
1000	4.412	34.560	27.393	1.646
1003	4.409	34.560	27.393	1.648

CAST GP3-99-KA-0071 DATE 07 JUL 99 TIME 0857 GMT
 LAT 03 00.1N LONG 154 57.1W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 097 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.6 WET 23.6 DEPTH 4806 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.179	35.110	22.745	0.000
10	27.172	35.109	22.747	0.051
20	27.174	35.109	22.747	0.102
30	27.178	35.110	22.746	0.153
40	27.174	35.110	22.747	0.204
50	27.165	35.109	22.749	0.255
60	27.158	35.109	22.751	0.307
70	27.136	35.111	22.760	0.358
80	27.097	35.136	22.792	0.409
90	26.933	35.137	22.845	0.460
100	26.735	35.090	22.872	0.510
110	26.398	35.033	22.936	0.560
120	25.629	34.943	23.107	0.609
130	22.094	34.880	24.101	0.650
140	19.262	34.779	24.787	0.686
150	14.030	34.640	25.903	0.711
160	12.582	34.609	26.174	0.731
170	11.731	34.613	26.340	0.749
180	11.323	34.668	26.458	0.765
190	11.103	34.758	26.569	0.781
200	11.075	34.776	26.588	0.796
250	10.582	34.759	26.663	0.868
300	10.441	34.747	26.678	0.940
350	9.894	34.712	26.745	1.009
400	9.157	34.665	26.831	1.076
450	8.196	34.618	26.945	1.137
500	7.789	34.606	26.996	1.195
550	7.397	34.587	27.038	1.252
600	7.034	34.575	27.079	1.306
650	6.598	34.565	27.131	1.359
700	6.395	34.558	27.153	1.410
750	5.927	34.552	27.208	1.459
800	5.672	34.549	27.238	1.506
900	5.189	34.544	27.292	1.597
1000	4.731	34.555	27.353	1.683
1004	4.692	34.555	27.357	1.686



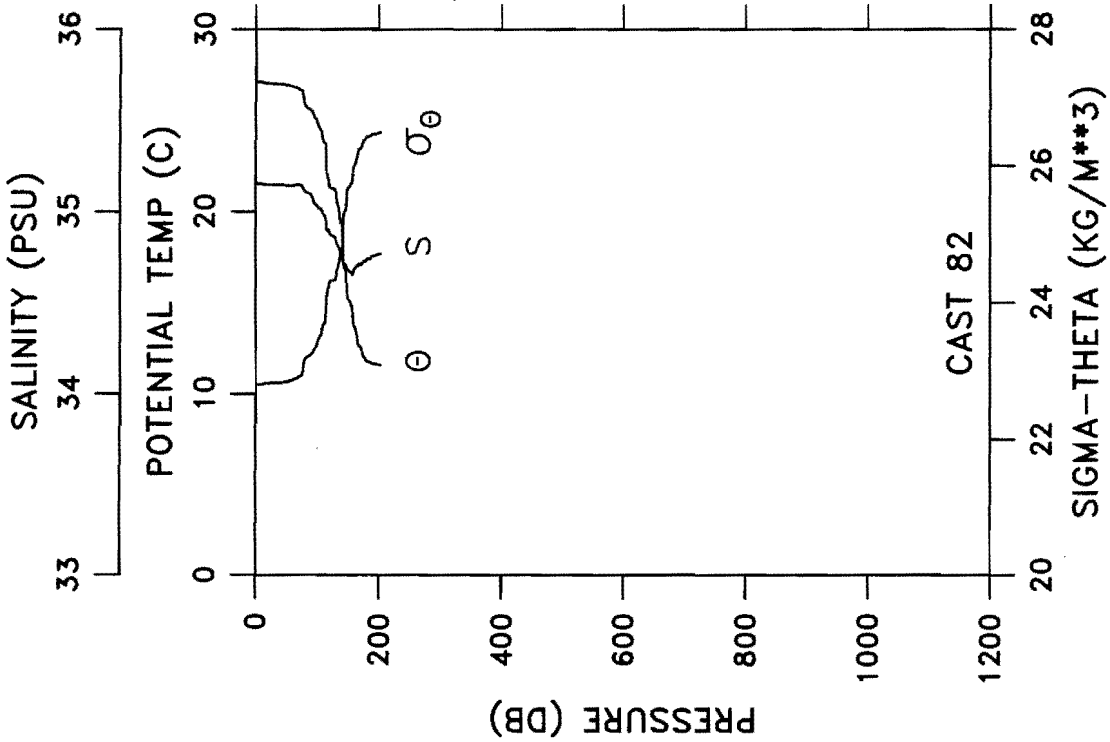
CAST GP3-99-KA-0081 DATE 07 JUL 99 TIME 1659 GMT
 LAT 01 59.1N LONG 154 56.9W WEATHER 6 SEA STATE 3
 BAROMETER 11 WIND DIR 080 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 26.0 WET 24.0 DEPTH 4654 M



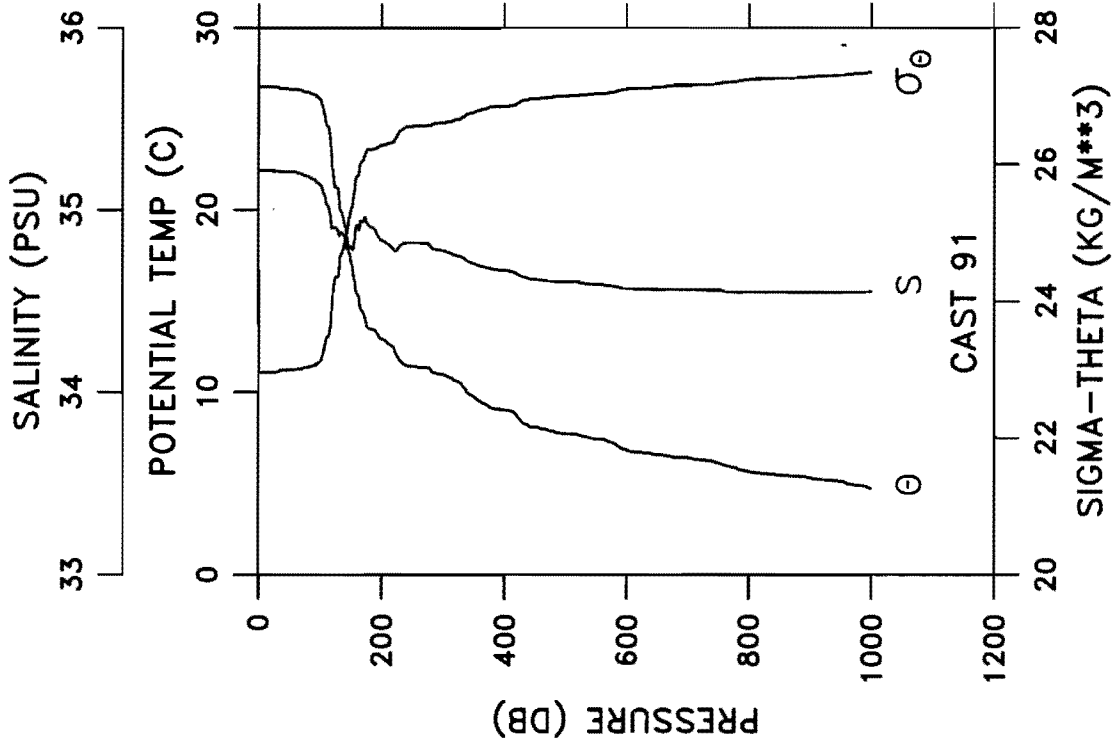
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.004	35.151	22.832	0.000
10	26.999	35.151	22.834	0.050
20	26.995	35.151	22.835	0.100
30	26.998	35.151	22.834	0.151
40	26.997	35.151	22.835	0.201
50	26.955	35.148	22.846	0.251
60	26.767	35.146	22.904	0.301
70	26.607	35.147	22.955	0.351
80	25.630	35.099	23.225	0.399
90	25.357	35.080	23.295	0.445
100	24.883	35.016	23.390	0.491
110	23.652	34.955	23.712	0.535
120	22.012	34.881	24.125	0.575
130	20.392	34.813	24.517	0.611
140	19.344	34.773	24.761	0.644
150	16.966	34.706	25.298	0.674
160	15.018	34.678	25.721	0.700
170	12.633	34.718	26.248	0.720
180	11.898	34.730	26.399	0.737
190	11.643	34.763	26.473	0.753
200	11.483	34.778	26.514	0.769
250	11.151	34.807	26.598	0.844
300	10.854	34.779	26.630	0.918
350	9.557	34.691	26.786	0.990
400	8.851	34.662	26.877	1.054
450	8.233	34.627	26.946	1.114
500	7.793	34.605	26.995	1.173
550	7.520	34.594	27.026	1.229
600	7.106	34.582	27.075	1.284
650	6.930	34.582	27.100	1.338
700	6.400	34.565	27.157	1.389
750	6.004	34.553	27.199	1.439
800	5.827	34.551	27.220	1.487
900	5.384	34.548	27.272	1.580
1000	4.745	34.554	27.351	1.667
1001	4.745	34.554	27.351	1.668

CAST GP3-99-KA-0082 DATE 07 JUL 99 TIME 2251 GMT
 LAT 02 00.7N LONG 154 57.0W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 090 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.2 WET 23.6 DEPTH 4619 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.104	35.153	22.802	0.000
10	27.086	35.150	22.805	0.050
20	27.027	35.148	22.823	0.101
30	27.007	35.146	22.828	0.151
40	26.993	35.145	22.832	0.202
50	26.949	35.144	22.845	0.252
60	26.862	35.143	22.872	0.302
70	26.728	35.149	22.919	0.352
80	25.815	35.111	23.176	0.401
90	25.551	35.089	23.242	0.448
100	24.895	35.029	23.397	0.494
110	23.804	34.980	23.686	0.538
120	21.347	34.881	24.310	0.577
130	21.060	34.841	24.358	0.614
140	19.219	34.762	24.785	0.648
150	15.183	34.677	25.684	0.675
160	13.707	34.685	26.006	0.697
170	12.606	34.709	26.247	0.716
180	11.788	34.740	26.428	0.733
190	11.668	34.756	26.463	0.750
200	11.608	34.766	26.482	0.766
203	11.606	34.770	26.486	0.770



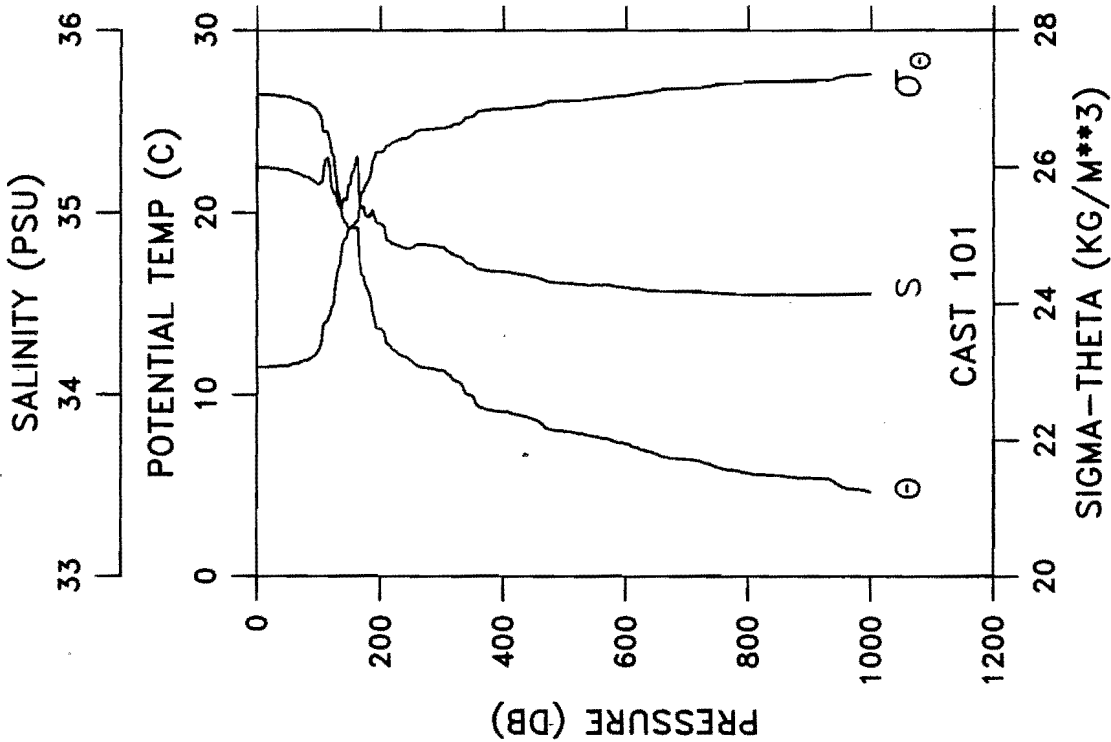
CAST GP3-99-KA-0091 DATE 07 JUL 99 TIME 0704 GMT
 LAT 01 00.1N LONG 154 57.9W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 067 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.2 WET 23.7 DEPTH 4762 M



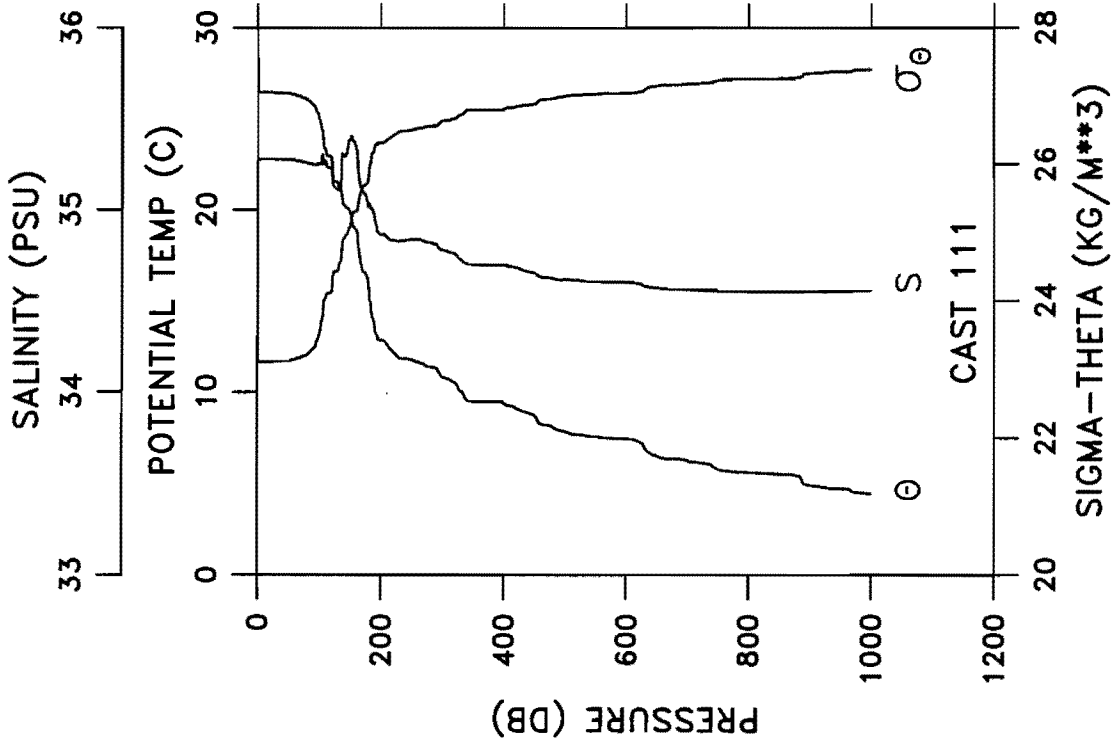
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.771	35.217	22.956	0.000
10	26.771	35.216	22.956	0.049
20	26.767	35.215	22.956	0.098
30	26.740	35.214	22.964	0.147
40	26.651	35.209	22.988	0.196
50	26.638	35.209	22.993	0.245
60	26.627	35.209	22.996	0.294
70	26.558	35.198	23.010	0.343
80	26.462	35.185	23.030	0.391
90	26.334	35.169	23.058	0.440
100	26.092	35.141	23.113	0.488
110	24.753	35.036	23.445	0.534
120	22.390	34.903	24.036	0.578
130	21.088	34.871	24.373	0.614
140	19.117	34.845	24.874	0.647
150	17.159	34.797	25.321	0.677
160	15.392	34.914	25.820	0.701
170	14.342	34.936	26.066	0.722
180	13.487	34.911	26.226	0.741
190	13.358	34.886	26.233	0.759
200	12.925	34.833	26.279	0.777
250	11.424	34.821	26.559	0.860
300	10.967	34.778	26.609	0.936
350	9.758	34.706	26.763	1.008
400	9.036	34.669	26.854	1.072
450	8.102	34.621	26.961	1.133
500	7.738	34.608	27.005	1.191
550	7.451	34.593	27.035	1.247
600	6.840	34.571	27.103	1.302
650	6.568	34.563	27.133	1.353
700	6.406	34.564	27.156	1.404
750	6.120	34.560	27.190	1.454
800	5.650	34.551	27.242	1.501
900	5.296	34.551	27.284	1.593
1000	4.730	34.552	27.351	1.680
1002	4.699	34.554	27.356	1.681

CAST GP3-99-KA-0101 DATE 07 JUL 99 TIME 1122 GMT
 LAT 00 29.9N LONG 154 58.5W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 050 T SPD 11 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.2 WET 24.2 DEPTH 4783 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.486	35.248	23.070	0.000
10	26.489	35.249	23.070	0.048
20	26.478	35.247	23.072	0.096
30	26.448	35.243	23.078	0.144
40	26.396	35.237	23.090	0.192
50	26.385	35.235	23.092	0.240
60	26.242	35.220	23.126	0.287
70	26.141	35.210	23.149	0.335
80	26.023	35.196	23.176	0.382
90	25.840	35.179	23.220	0.429
100	25.468	35.154	23.317	0.476
110	24.445	35.275	23.719	0.520
120	23.483	35.154	23.912	0.562
130	21.295	35.060	24.460	0.600
140	19.642	35.072	24.912	0.633
150	19.143	35.150	25.100	0.663
160	19.166	35.275	25.190	0.692
170	16.567	35.026	25.637	0.718
180	15.676	34.977	25.804	0.742
190	14.154	34.983	26.142	0.762
200	13.630	34.940	26.218	0.781
250	11.887	34.808	26.462	0.867
300	11.307	34.810	26.572	0.944
350	9.929	34.716	26.743	1.017
400	9.079	34.676	26.852	1.082
450	8.661	34.648	26.897	1.145
500	8.005	34.615	26.971	1.204
550	7.710	34.606	27.008	1.262
600	7.309	34.590	27.053	1.318
650	6.746	34.573	27.118	1.372
700	6.429	34.568	27.156	1.423
750	5.974	34.559	27.207	1.472
800	5.675	34.551	27.238	1.519
900	5.394	34.550	27.272	1.611
1000	4.622	34.554	27.365	1.698
1005	4.603	34.554	27.366	1.702



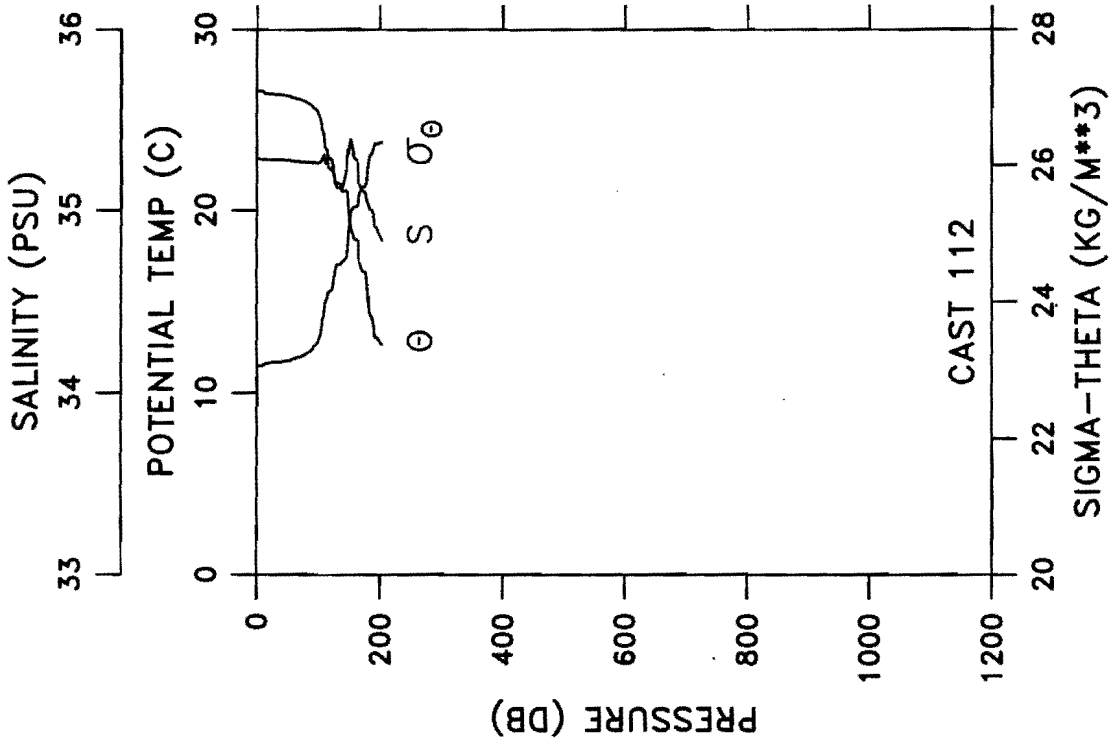
CAST GP3-99-KA-0111 DATE 08 JUL 99 TIME 1525 GMT
 LAT 00 04.6N LONG 154 58.9W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 075 T SPD 10 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 26.0 WET 24.0 DEPTH 4647 M



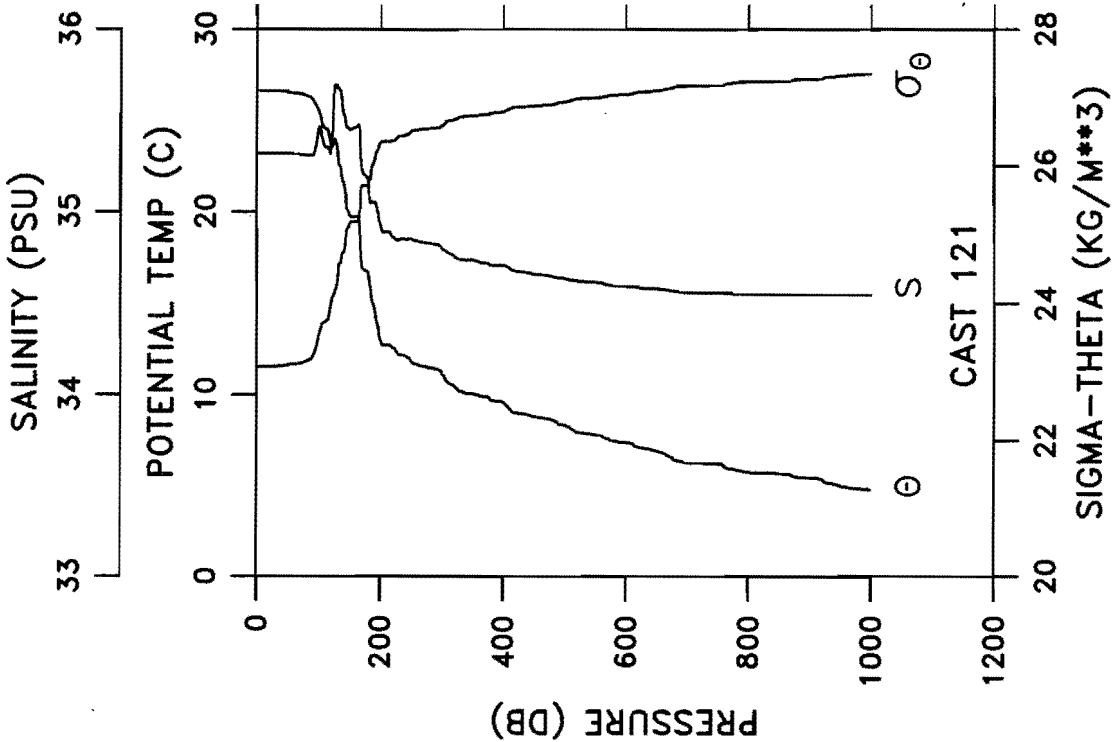
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.438	35.281	23.110	0.000
10	26.437	35.281	23.110	0.048
20	26.436	35.281	23.111	0.095
30	26.419	35.280	23.115	0.143
40	26.402	35.279	23.120	0.190
50	26.389	35.278	23.123	0.238
60	26.323	35.275	23.141	0.285
70	26.196	35.266	23.175	0.333
80	26.056	35.258	23.212	0.380
90	25.785	35.249	23.290	0.426
100	25.015	35.253	23.530	0.472
110	23.338	35.271	24.043	0.513
120	22.894	35.231	24.141	0.552
130	21.476	35.111	24.449	0.587
140	20.279	35.296	24.915	0.620
150	19.900	35.385	25.083	0.651
160	18.875	35.340	25.314	0.678
170	16.652	35.097	25.672	0.704
180	15.746	35.025	25.825	0.727
190	13.377	34.946	26.275	0.747
200	12.835	34.864	26.321	0.764
250	11.753	34.837	26.510	0.846
300	10.793	34.780	26.642	0.923
350	9.495	34.698	26.801	0.993
400	9.393	34.696	26.816	1.059
450	8.740	34.652	26.887	1.122
500	7.839	34.617	26.997	1.181
550	7.575	34.606	27.027	1.238
600	7.457	34.601	27.040	1.294
650	6.493	34.571	27.149	1.347
700	6.243	34.563	27.176	1.397
750	5.763	34.554	27.231	1.445
800	5.591	34.551	27.249	1.492
900	4.896	34.552	27.332	1.582
1000	4.441	34.556	27.386	1.664
1006	4.396	34.556	27.391	1.669

CAST GP3-99-KA-0112 DATE 08 JUL 99 TIME 2335 GMT
 LAT 00 01.8N LONG 154 56.4W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 077 T SPD 10 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.5 WET 25.0 DEPTH 4635 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.594	35.285	23.064	0.000
10	26.542	35.281	23.077	0.048
20	26.438	35.279	23.108	0.096
30	26.411	35.278	23.116	0.143
40	26.388	35.278	23.123	0.191
50	26.337	35.276	23.138	0.238
60	26.227	35.271	23.169	0.286
70	26.137	35.267	23.194	0.333
80	25.986	35.263	23.238	0.380
90	25.767	35.262	23.306	0.426
100	25.317	35.263	23.445	0.471
110	23.706	35.282	23.943	0.514
120	22.815	35.222	24.157	0.553
130	21.248	35.153	24.544	0.589
140	21.041	35.141	24.591	0.623
150	19.896	35.338	25.101	0.656
160	18.408	35.282	25.388	0.683
170	16.732	35.112	25.665	0.708
180	15.259	35.041	25.947	0.731
190	13.372	34.945	26.276	0.751
200	12.747	34.857	26.333	0.768
203	12.641	34.835	26.337	0.773

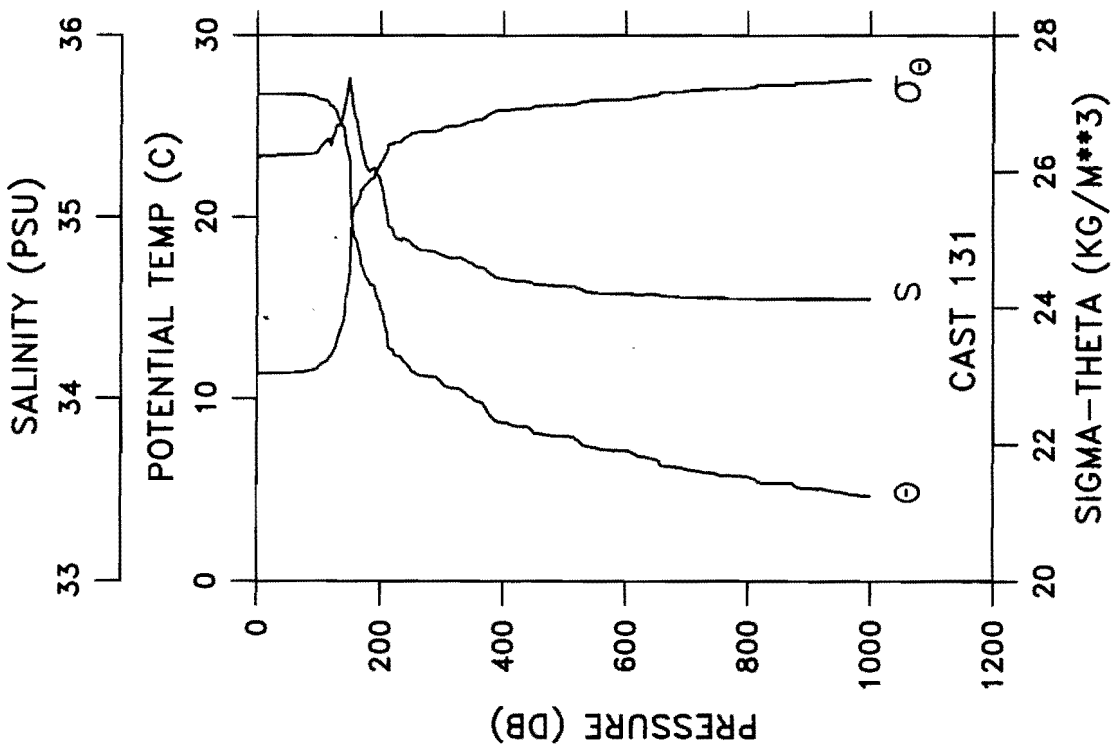


CAST GP3-99-KA-0121 DATE 09 JUL 99 TIME 0951 GMT
 LAT 00 29.7S LONG 154 58.3W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 062 T SPD 12 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.3 WET 23.5 DEPTH 4888 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.641	35.320	23.075	0.000
10	26.622	35.321	23.082	0.048
20	26.621	35.322	23.083	0.096
30	26.615	35.321	23.084	0.144
40	26.586	35.319	23.092	0.191
50	26.545	35.318	23.104	0.239
60	26.491	35.315	23.119	0.287
70	26.452	35.314	23.130	0.335
80	26.353	35.309	23.158	0.382
90	26.161	35.310	23.219	0.429
100	25.535	35.456	23.523	0.475
110	24.595	35.358	23.736	0.518
120	23.686	35.350	24.001	0.559
130	23.528	35.693	24.307	0.597
140	21.617	35.545	24.741	0.631
150	19.805	35.449	25.157	0.662
160	19.722	35.463	25.189	0.690
170	16.979	35.242	25.706	0.717
180	16.724	35.178	25.717	0.740
190	14.770	35.048	26.080	0.762
200	13.007	34.931	26.339	0.780
250	11.823	34.854	26.510	0.864
300	11.172	34.799	26.589	0.942
350	10.065	34.737	26.736	1.013
400	9.598	34.708	26.792	1.080
450	8.825	34.661	26.881	1.144
500	8.347	34.638	26.937	1.206
550	7.827	34.617	26.999	1.264
600	7.387	34.596	27.046	1.321
650	6.906	34.582	27.103	1.375
700	6.268	34.563	27.173	1.426
750	6.194	34.560	27.180	1.475
800	5.730	34.553	27.234	1.523
900	5.429	34.549	27.267	1.616
1000	4.775	34.550	27.344	1.703
1004	4.765	34.550	27.345	1.706

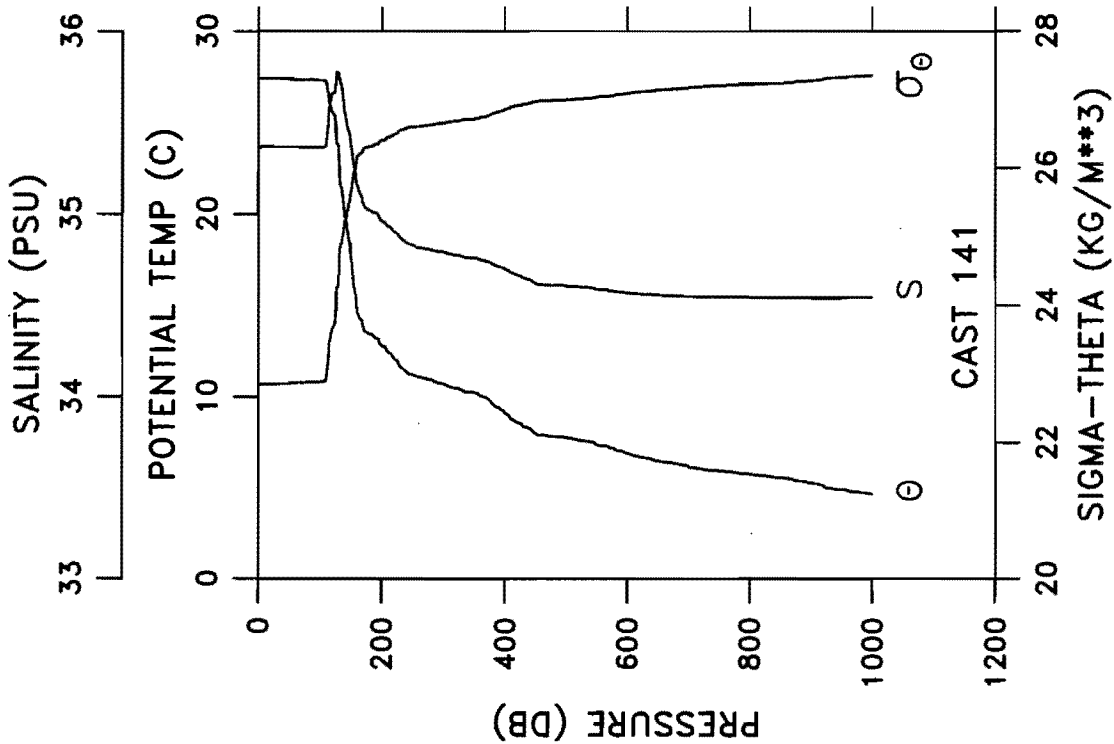
CAST GP3-99-KA-0131 DATE 09 JUL 99 TIME 1418 GMT
 LAT 00 59.5S LONG 154 58.9W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 100 T SPD 17 KT VISIBILITY 7
 CLOUD 1 AMOUNT 8 DRY 26.5 WET 25.2 DEPTH 4727 M



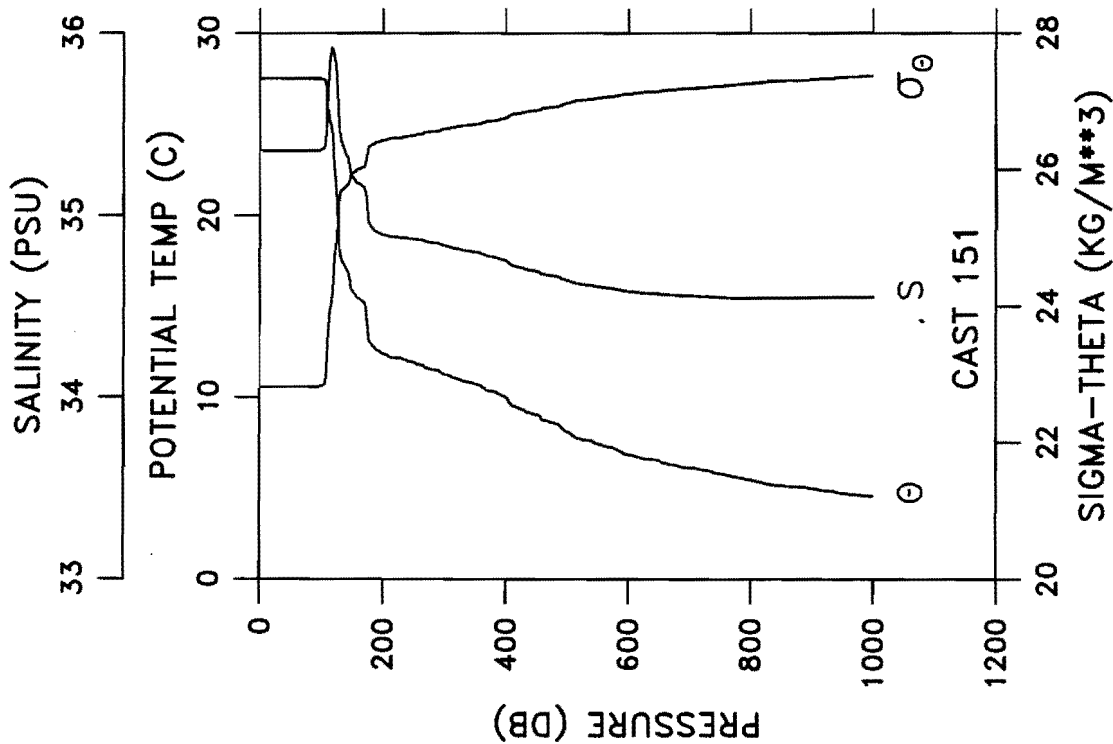
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.795	35.328	23.033	0.000
10	26.776	35.337	23.045	0.048
20	26.783	35.335	23.041	0.096
30	26.784	35.338	23.043	0.145
40	26.776	35.340	23.048	0.193
50	26.771	35.341	23.050	0.241
60	26.755	35.343	23.056	0.290
70	26.746	35.344	23.060	0.338
80	26.707	35.348	23.075	0.386
90	26.661	35.350	23.091	0.434
100	26.523	35.374	23.153	0.482
110	26.431	35.413	23.212	0.530
120	26.116	35.401	23.302	0.576
130	25.560	35.499	23.549	0.621
140	24.912	35.585	23.812	0.664
150	23.010	35.759	24.508	0.702
160	18.734	35.541	25.504	0.730
170	17.277	35.364	25.728	0.754
180	16.486	35.258	25.834	0.777
190	16.139	35.268	25.922	0.798
200	14.938	35.186	26.130	0.819
250	11.551	34.852	26.559	0.903
300	10.883	34.791	26.635	0.978
350	10.071	34.743	26.740	1.050
400	8.703	34.659	26.899	1.114
450	8.167	34.630	26.959	1.175
500	7.957	34.620	26.982	1.233
550	7.325	34.584	27.046	1.289
600	7.170	34.578	27.063	1.344
650	6.678	34.574	27.127	1.397
700	6.115	34.559	27.190	1.446
750	5.866	34.555	27.218	1.494
800	5.730	34.551	27.232	1.541
900	5.095	34.548	27.306	1.631
1000	4.669	34.548	27.355	1.716
1014	4.556	34.550	27.369	1.727

CAST GP3-99-KA-0141 DATE 10 JUL 99 TIME 0345 GMT
 LAT 01 59.4S LONG 154 56.7W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 087 T SPD 19 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 30.5 WET 27.6 DEPTH 3733 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.449	35.365	22.850	0.000
10	27.450	35.371	22.855	0.050
20	27.448	35.371	22.855	0.100
30	27.435	35.370	22.859	0.150
40	27.412	35.369	22.865	0.200
50	27.397	35.368	22.870	0.250
60	27.369	35.367	22.878	0.300
70	27.363	35.367	22.880	0.350
80	27.357	35.366	22.881	0.400
90	27.349	35.366	22.884	0.450
100	27.332	35.366	22.889	0.500
110	27.207	35.381	22.940	0.550
120	25.553	35.662	23.674	0.596
130	23.702	35.773	24.316	0.636
140	19.834	35.553	25.229	0.667
150	17.688	35.380	25.641	0.693
160	14.667	35.158	26.167	0.714
170	13.776	35.055	26.277	0.733
180	13.446	35.020	26.318	0.750
190	13.222	35.005	26.352	0.768
200	12.778	34.962	26.408	0.785
250	11.224	34.831	26.604	0.863
300	10.742	34.793	26.661	0.936
350	10.239	34.759	26.723	1.007
400	9.131	34.701	26.863	1.074
450	8.014	34.624	26.976	1.134
500	7.768	34.609	27.001	1.191
550	7.382	34.591	27.043	1.248
600	6.894	34.571	27.096	1.302
650	6.490	34.559	27.141	1.353
700	6.189	34.550	27.173	1.404
750	5.941	34.549	27.204	1.452
800	5.757	34.547	27.225	1.500
900	5.284	34.541	27.279	1.592
1000	4.653	34.547	27.356	1.678
1003	4.646	34.547	27.356	1.680

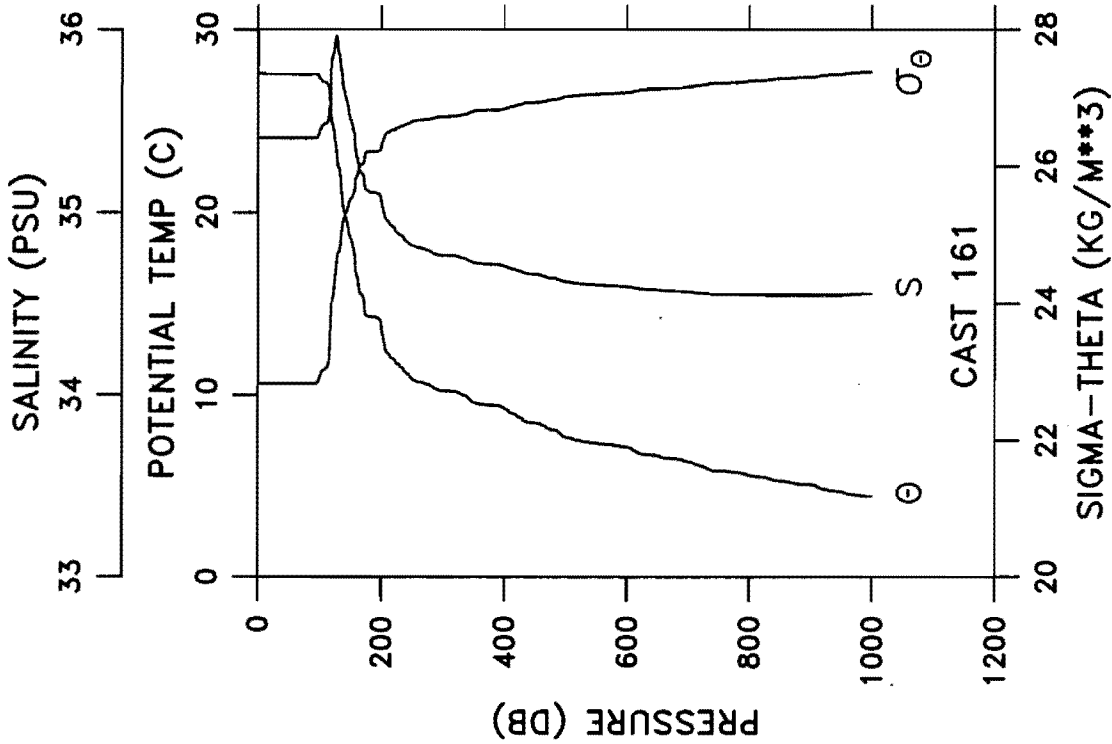


CAST GP3-99-KA-0151 DATE 10 JUL 99 TIME 1207 GMT
 LAT 02 59.9S LONG 154 57.5W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 087 T SPD 20 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 27.0 WET 24.3 DEPTH 5514 M



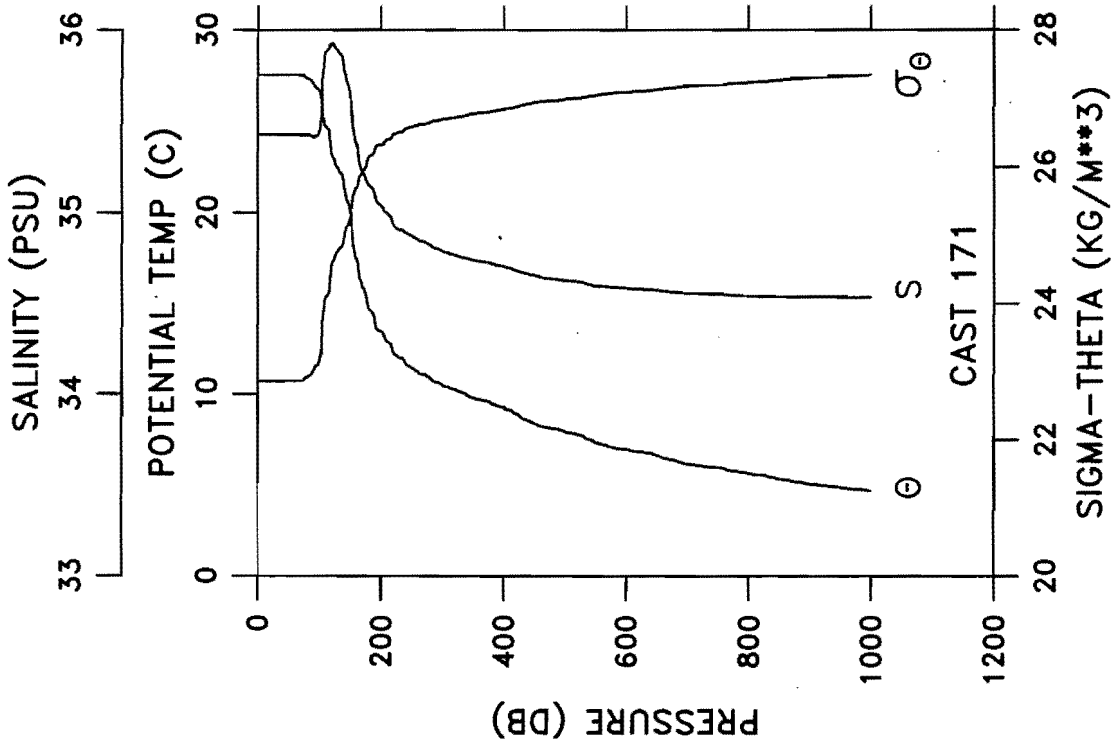
PRES (DB)	POT TEMP (C)	SAL (FSU)	SIG-TH	DELTA-D (DYN-M)
0	27.504	35.360	22.829	0.000
10	27.514	35.355	22.822	0.050
20	27.513	35.355	22.822	0.101
30	27.512	35.355	22.823	0.151
40	27.513	35.355	22.823	0.201
50	27.512	35.355	22.823	0.252
60	27.512	35.355	22.823	0.302
70	27.507	35.355	22.825	0.353
80	27.505	35.356	22.825	0.403
90	27.503	35.356	22.826	0.454
100	27.478	35.362	22.839	0.505
110	26.215	35.643	23.453	0.554
120	23.389	35.888	24.496	0.594
130	18.011	35.458	25.621	0.623
140	17.058	35.333	25.757	0.646
150	15.858	35.213	25.945	0.668
160	15.452	35.175	26.007	0.689
170	15.179	35.146	26.046	0.709
180	12.975	34.941	26.353	0.727
190	12.583	34.908	26.405	0.744
200	12.382	34.894	26.433	0.761
250	11.919	34.870	26.504	0.841
300	11.250	34.834	26.601	0.919
350	10.726	34.799	26.669	0.992
400	10.002	34.752	26.758	1.063
450	9.042	34.693	26.872	1.128
500	8.081	34.643	26.981	1.189
550	7.428	34.608	27.050	1.245
600	6.818	34.582	27.115	1.298
650	6.496	34.570	27.149	1.349
700	6.097	34.558	27.191	1.398
750	5.750	34.550	27.229	1.446
800	5.405	34.546	27.267	1.492
900	4.941	34.548	27.324	1.579
1000	4.523	34.551	27.373	1.661
1005	4.478	34.551	27.378	1.665

CAST GP3-99-KA-0161 DATE 10 JUL 99 TIME 1910 GMT
 LAT 03 59.5S LONG 155 00.7W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 079 T SPD 21 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 27.5 WET 24.8 DEPTH M



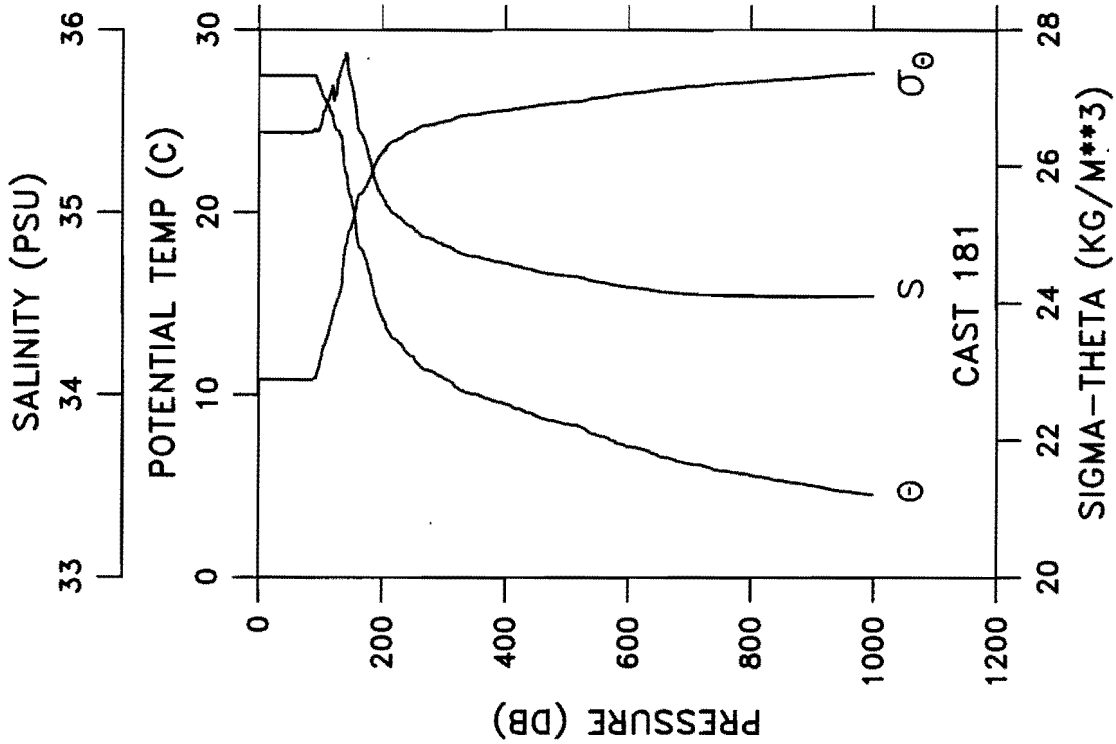
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.605	35.407	22.832	0.000
10	27.606	35.407	22.831	0.050
20	27.600	35.406	22.833	0.100
30	27.585	35.405	22.837	0.151
40	27.583	35.405	22.837	0.201
50	27.579	35.405	22.839	0.251
60	27.578	35.405	22.839	0.302
70	27.577	35.405	22.839	0.352
80	27.577	35.405	22.839	0.402
90	27.576	35.406	22.840	0.453
100	27.355	35.445	22.941	0.503
110	27.104	35.484	23.051	0.552
120	24.846	35.845	24.029	0.598
130	22.448	35.877	24.759	0.634
140	20.025	35.661	25.261	0.664
150	18.594	35.506	25.512	0.690
160	16.558	35.302	25.852	0.714
170	15.435	35.205	26.034	0.735
180	14.293	35.113	26.213	0.754
190	14.264	35.107	26.214	0.773
200	13.741	35.062	26.290	0.791
250	10.869	34.820	26.659	0.868
300	10.230	34.764	26.729	0.938
350	9.598	34.726	26.806	1.006
400	9.272	34.706	26.844	1.071
450	8.462	34.660	26.937	1.133
500	7.669	34.619	27.024	1.191
550	7.342	34.602	27.058	1.246
600	7.132	34.593	27.080	1.300
650	6.645	34.574	27.132	1.352
700	6.299	34.563	27.169	1.403
750	5.827	34.551	27.220	1.451
800	5.584	34.548	27.247	1.498
900	5.085	34.545	27.305	1.587
1000	4.442	34.552	27.383	1.670
1002	4.439	34.552	27.383	1.671

CAST GP3-99-KA-0171 DATE 11 JUL 99 TIME 0535 GMT
 LAT 05 00.4S LONG 154 58.4W WEATHER 5 SEA STATE 4
 BAROMETER 08 WIND DIR 075 T SPD 26 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 26.2 WET 23.9 DEPTH 5023 M



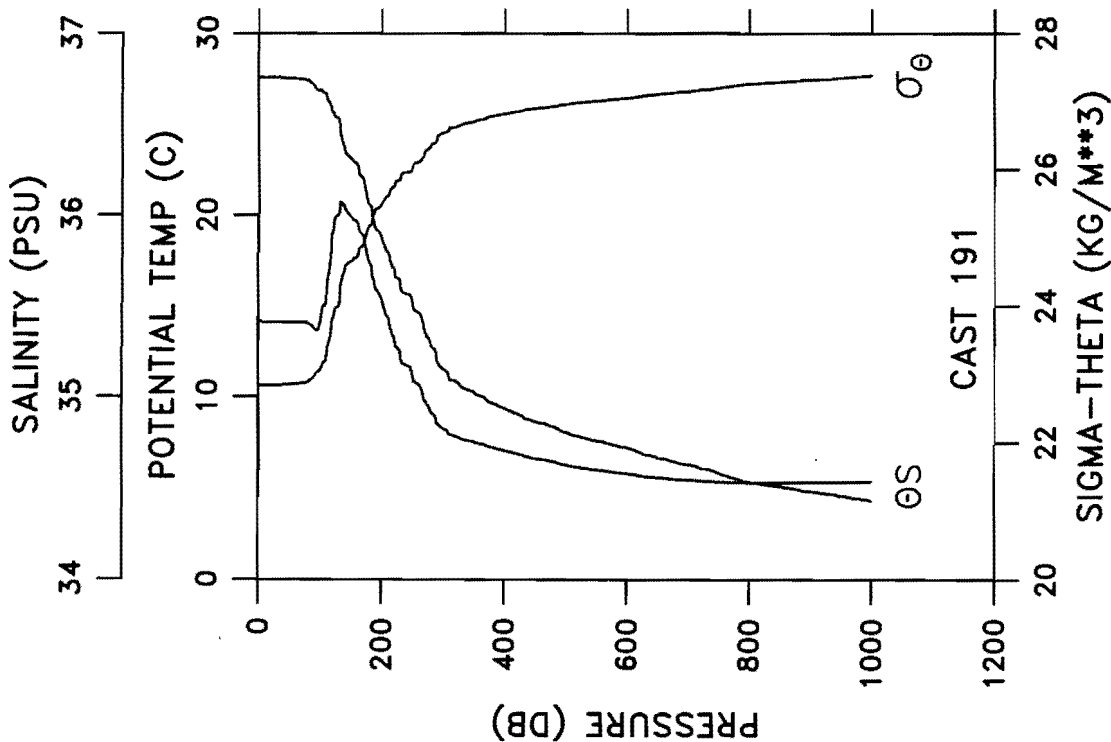
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.570	35.432	22.862	0.000
10	27.567	35.430	22.861	0.050
20	27.568	35.429	22.860	0.100
30	27.567	35.429	22.860	0.150
40	27.567	35.429	22.861	0.200
50	27.556	35.428	22.864	0.250
60	27.545	35.428	22.867	0.300
70	27.534	35.427	22.869	0.350
80	27.376	35.428	22.922	0.400
90	27.064	35.416	23.013	0.450
100	26.670	35.448	23.163	0.498
110	24.727	35.882	24.093	0.541
120	23.171	35.927	24.589	0.578
130	22.428	35.884	24.770	0.611
140	21.390	35.769	24.974	0.642
150	20.003	35.643	25.253	0.671
160	17.456	35.378	25.696	0.696
170	15.876	35.217	25.944	0.718
180	14.706	35.150	26.153	0.739
190	13.982	35.090	26.262	0.757
200	13.475	35.039	26.327	0.775
250	11.465	34.872	26.591	0.855
300	10.505	34.789	26.700	0.927
350	9.787	34.740	26.785	0.996
400	9.291	34.706	26.841	1.062
450	8.399	34.657	26.944	1.123
500	7.937	34.628	26.992	1.182
550	7.348	34.598	27.054	1.238
600	6.985	34.586	27.095	1.292
650	6.622	34.574	27.135	1.344
700	6.144	34.558	27.185	1.394
750	5.964	34.552	27.204	1.442
800	5.632	34.544	27.238	1.490
900	5.033	34.537	27.304	1.580
1000	4.648	34.536	27.347	1.665
1003	4.645	34.536	27.347	1.667

CST GP3-99-KA-0181 DATE 11 JUL 99 TIME 1314 GMT
 LAT 06 00.1S LONG 154 99.6W WEATHER 5 SEA STATE 4
 BAROMETER 09 WIND DIR 100 T SPD 23 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 26.2 WET 24.4 DEPTH 5777 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.502	35.440	22.890	0.000
10	27.502	35.437	22.888	0.050
20	27.500	35.436	22.888	0.099
30	27.498	35.435	22.888	0.149
40	27.498	35.436	22.888	0.199
50	27.493	35.436	22.890	0.249
60	27.492	35.436	22.890	0.299
70	27.481	35.433	22.891	0.348
80	27.490	35.436	22.891	0.398
90	27.485	35.452	22.904	0.448
100	26.708	35.474	23.170	0.497
110	25.995	35.586	23.479	0.543
120	25.095	35.691	23.837	0.586
130	24.394	35.748	24.092	0.626
140	22.161	35.869	24.834	0.662
150	20.676	35.699	25.115	0.692
160	18.478	35.476	25.518	0.719
170	17.698	35.397	25.652	0.744
180	16.601	35.286	25.829	0.767
190	15.133	35.155	26.063	0.788
200	14.258	35.087	26.200	0.807
250	12.080	34.919	26.511	0.892
300	10.881	34.820	26.657	0.967
350	10.047	34.757	26.755	1.036
400	9.499	34.719	26.817	1.103
450	8.850	34.677	26.889	1.167
500	8.398	34.651	26.940	1.228
550	7.787	34.617	27.005	1.287
600	7.148	34.587	27.073	1.343
650	6.654	34.566	27.124	1.396
700	6.222	34.553	27.171	1.447
750	5.837	34.544	27.213	1.495
800	5.581	34.541	27.242	1.542
900	5.036	34.536	27.304	1.632
1000	4.535	34.540	27.363	1.716
1003	4.533	34.540	27.363	1.716

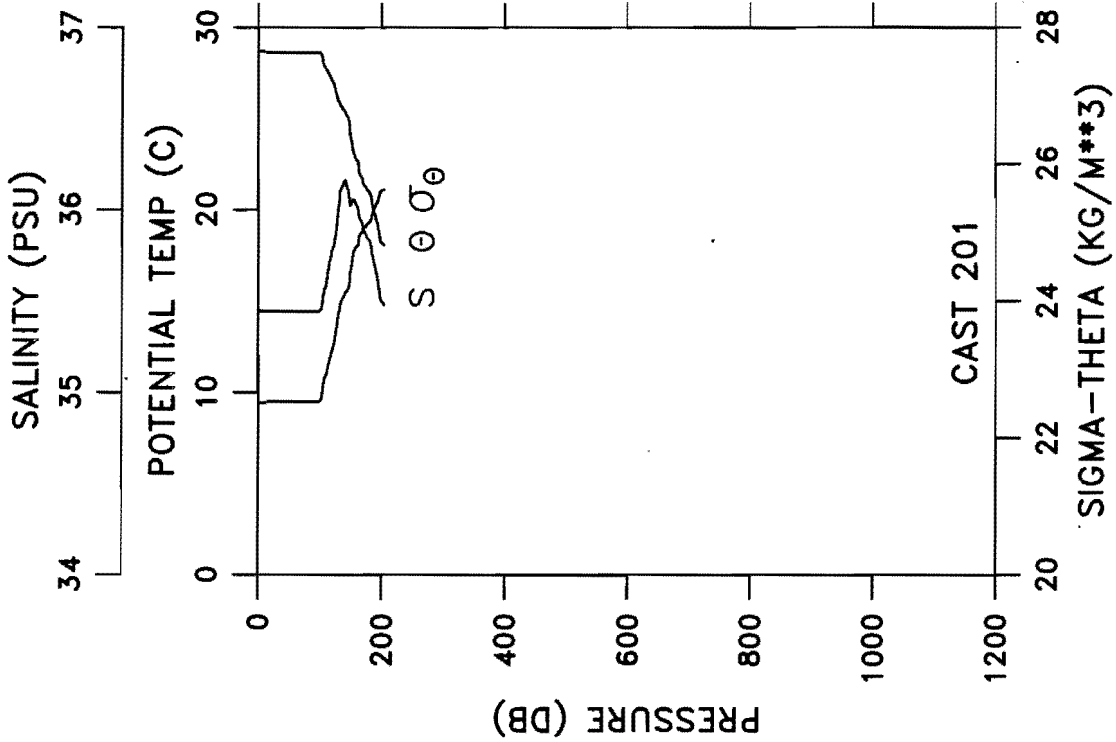
CAST GP3-99-KA-0191 DATE 12 JUL 99 TIME 0503 GMT
 LAT 08 15.4S LONG 155 01.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 097 T SPD 22 KT VISIBILITY 7
 CLOUD 1 AMOUNT 8 DRY 27.8 WET 25.4 DEPTH 5302 M



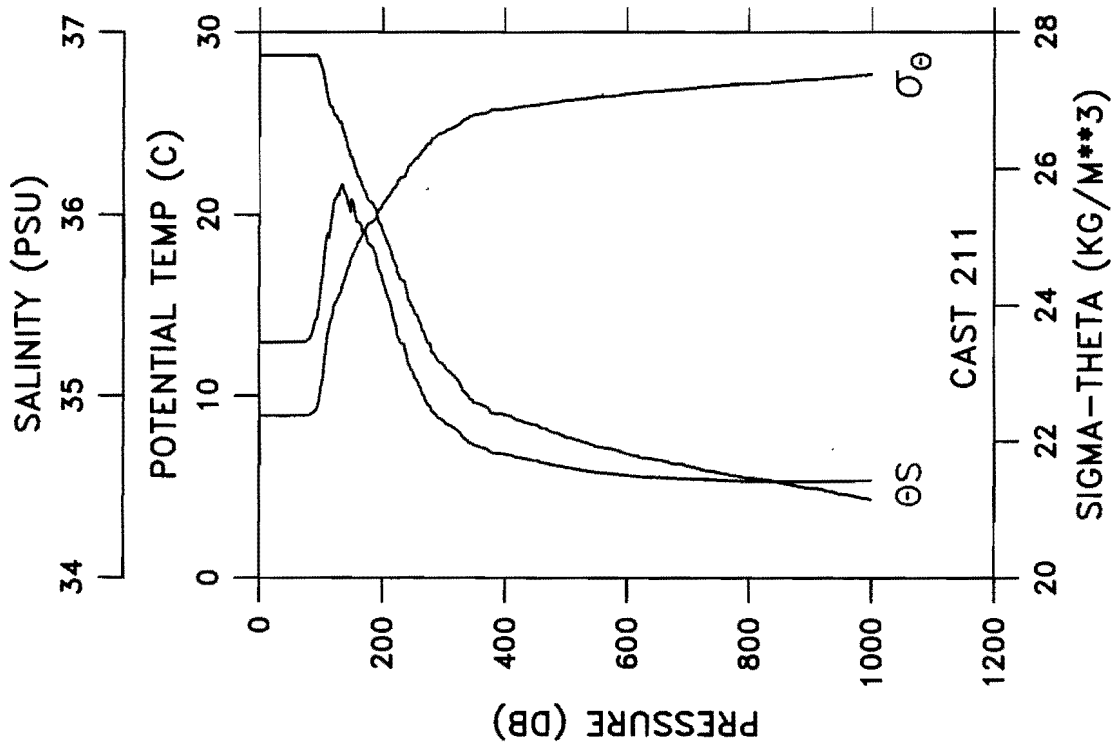
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.602	35.415	22.839	0.000
10	27.598	35.411	22.837	0.050
20	27.593	35.410	22.838	0.100
30	27.590	35.410	22.838	0.151
40	27.574	35.409	22.843	0.201
50	27.549	35.409	22.851	0.251
60	27.527	35.408	22.858	0.301
70	27.506	35.408	22.865	0.351
80	27.448	35.405	22.881	0.402
90	27.153	35.377	22.955	0.451
100	26.866	35.400	23.064	0.500
110	26.651	35.523	23.225	0.548
120	26.695	35.902	23.811	0.592
130	25.339	36.004	23.998	0.632
140	23.641	36.039	24.537	0.669
150	23.123	35.993	24.653	0.702
160	22.809	35.962	24.720	0.736
170	21.988	35.884	24.895	0.767
180	20.569	35.738	25.174	0.797
190	19.230	35.592	25.416	0.825
200	18.761	35.531	25.489	0.851
250	15.161	35.121	26.030	0.964
300	11.550	34.829	26.542	1.054
350	10.299	34.756	26.710	1.127
400	9.400	34.707	26.824	1.194
450	8.657	34.662	26.908	1.258
500	8.088	34.626	26.967	1.318
550	7.613	34.598	27.015	1.375
600	7.236	34.579	27.055	1.431
650	6.666	34.558	27.116	1.485
700	6.293	34.545	27.156	1.536
750	5.822	34.536	27.208	1.585
800	5.327	34.531	27.265	1.631
800	4.822	34.531	27.324	1.719
1000	4.309	34.538	27.386	1.801
1003	4.305	34.538	27.386	1.803

CAST GP3-99-KA-0201 DATE 15 JUL 99 TIME 0053 GMT
 LAT 08 02.4S LONG 166 38.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 076 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 28.6 WET 24.9 DEPTH 4101 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.656	35.450	22.519	0.000
10	28.653	35.446	22.517	0.053
20	28.616	35.445	22.529	0.106
30	28.608	35.445	22.531	0.160
40	28.602	35.445	22.533	0.213
50	28.601	35.445	22.533	0.266
60	28.598	35.445	22.535	0.319
70	28.596	35.445	22.535	0.373
80	28.595	35.445	22.536	0.426
90	28.590	35.446	22.538	0.479
100	28.558	35.450	22.552	0.533
110	27.729	35.585	22.925	0.584
120	27.047	35.774	23.288	0.632
130	25.929	36.005	23.816	0.676
140	25.390	36.159	24.099	0.716
150	23.903	36.025	24.448	0.754
160	22.688	36.019	24.799	0.787
170	21.446	35.893	25.053	0.818
180	20.965	35.831	25.138	0.847
190	19.583	35.675	25.387	0.875
200	18.166	35.498	25.614	0.900
204	18.046	35.481	25.630	0.910



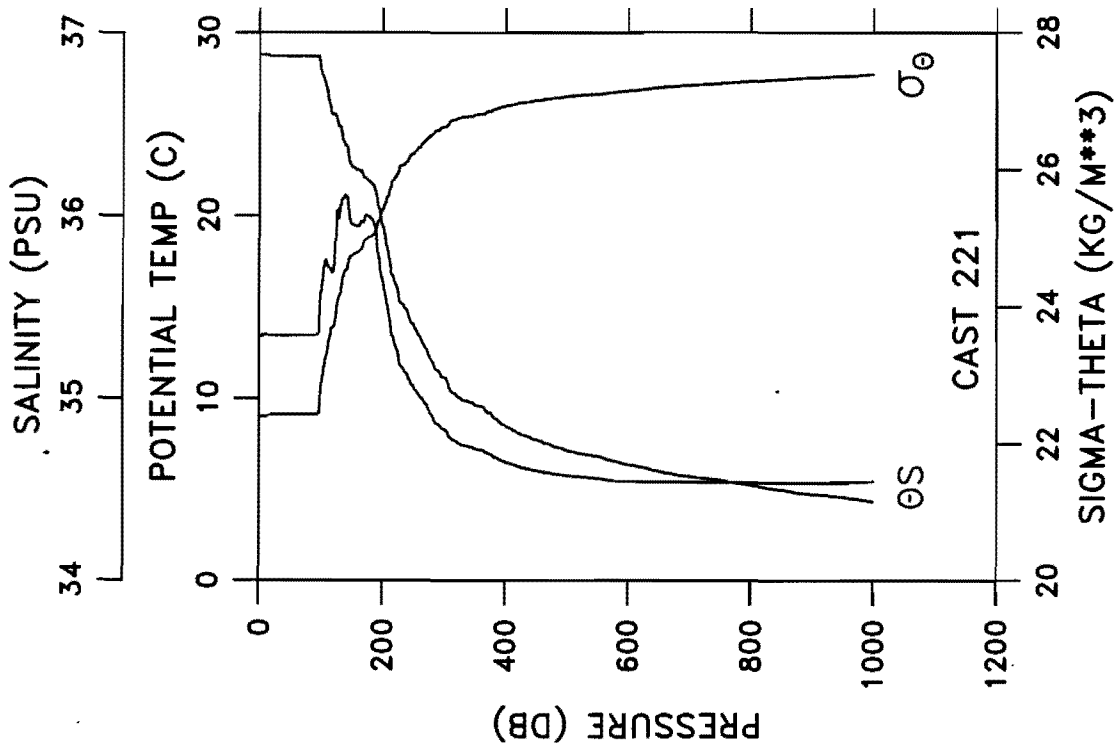
CAST GP3-99-KA-0211 DATE 15 JUL 99 TIME 2020 GMT
 LAT 07 59.9S LONG 170 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 087 T SPD 14 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 28.6 WET 24.9 DEPTH 5373 M



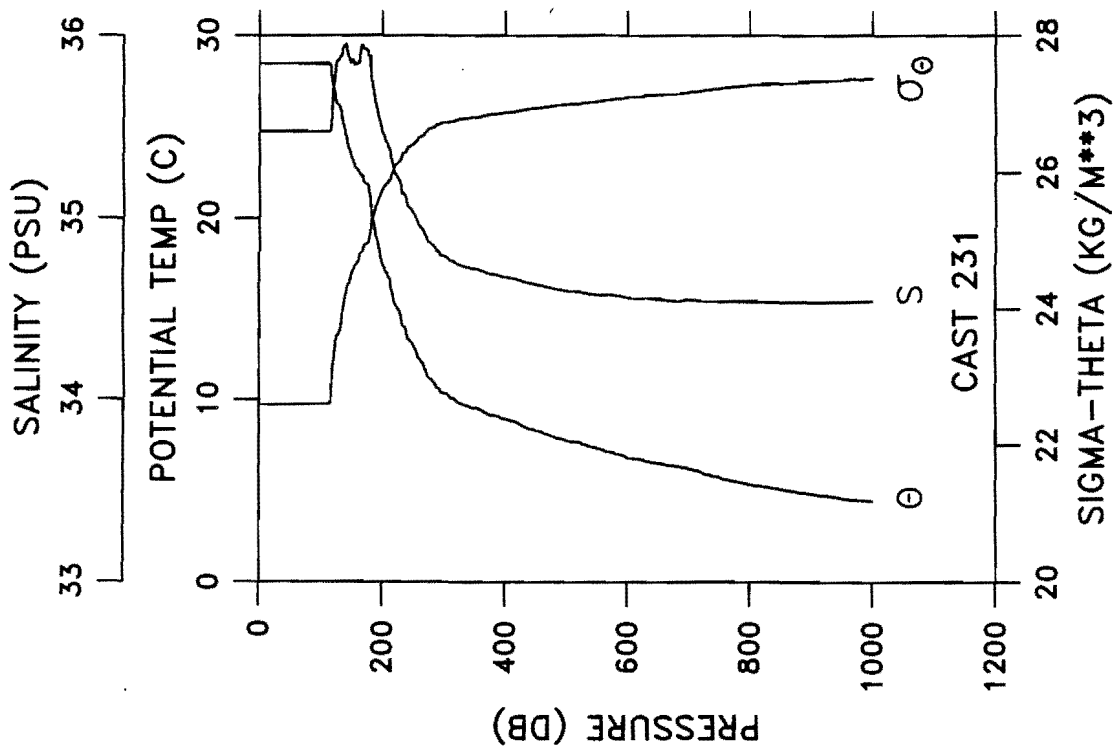
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.734	35.296	22.378	0.000
10	28.732	35.295	22.378	0.055
20	28.733	35.295	22.377	0.109
30	28.731	35.295	22.378	0.164
40	28.731	35.296	22.379	0.218
50	28.731	35.297	22.379	0.273
60	28.731	35.297	22.379	0.328
70	28.730	35.299	22.381	0.383
80	28.734	35.312	22.390	0.437
90	28.779	35.408	22.447	0.492
100	28.148	35.614	22.810	0.545
110	26.599	35.887	23.516	0.593
120	25.597	36.045	23.949	0.635
130	25.082	36.126	24.170	0.674
140	24.187	36.112	24.429	0.711
150	23.142	36.081	24.714	0.745
160	22.075	35.962	24.929	0.777
170	21.347	35.908	25.092	0.807
180	20.701	35.833	25.211	0.836
190	20.244	35.762	25.279	0.864
200	19.129	35.641	25.479	0.890
250	14.826	35.127	26.109	1.004
300	11.691	34.861	26.540	1.091
350	9.644	34.728	26.800	1.163
400	8.945	34.678	26.875	1.226
450	8.412	34.643	26.931	1.288
500	7.717	34.605	27.006	1.346
550	7.214	34.578	27.057	1.402
600	6.805	34.562	27.101	1.455
650	6.465	34.551	27.138	1.507
700	6.124	34.543	27.176	1.557
750	5.778	34.536	27.215	1.605
800	5.470	34.529	27.246	1.652
900	4.922	34.528	27.310	1.741
1000	4.310	34.536	27.384	1.824
1002	4.287	34.536	27.387	1.826

CAST GP3-99-KA-0221 DATE 16 JUL 99 TIME 0336 GMT
 LAT 06 59.7S LONG 170 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 092 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 28.0 WET 24.5 DEPTH 4817 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.767	35.341	22.400	0.000
10	28.764	35.348	22.407	0.054
20	28.720	35.344	22.418	0.109
30	28.695	35.344	22.426	0.163
40	28.690	35.343	22.428	0.217
50	28.687	35.344	22.429	0.271
60	28.683	35.343	22.430	0.325
70	28.683	35.345	22.431	0.380
80	28.681	35.345	22.432	0.434
90	28.677	35.346	22.434	0.488
100	27.913	35.574	22.857	0.542
110	26.854	35.737	23.322	0.590
120	25.520	35.697	23.710	0.634
130	24.890	36.038	24.161	0.674
140	23.836	36.110	24.532	0.710
150	22.694	35.950	24.744	0.744
160	22.485	35.938	24.795	0.776
170	22.046	35.977	24.949	0.808
180	21.808	35.985	25.022	0.838
190	21.016	35.874	25.156	0.868
200	19.379	35.646	25.419	0.895
250	14.044	35.061	26.226	1.003
300	11.137	34.832	26.620	1.085
350	9.627	34.724	26.800	1.153
400	8.493	34.650	26.925	1.216
450	7.733	34.603	27.002	1.274
500	7.144	34.576	27.065	1.329
550	6.830	34.561	27.097	1.382
600	6.354	34.543	27.146	1.433
650	6.008	34.543	27.191	1.482
700	5.719	34.540	27.224	1.530
750	5.524	34.539	27.248	1.576
800	5.224	34.537	27.282	1.621
900	4.745	34.538	27.338	1.706
1000	4.332	34.544	27.388	1.787
1002	4.315	34.543	27.390	1.789

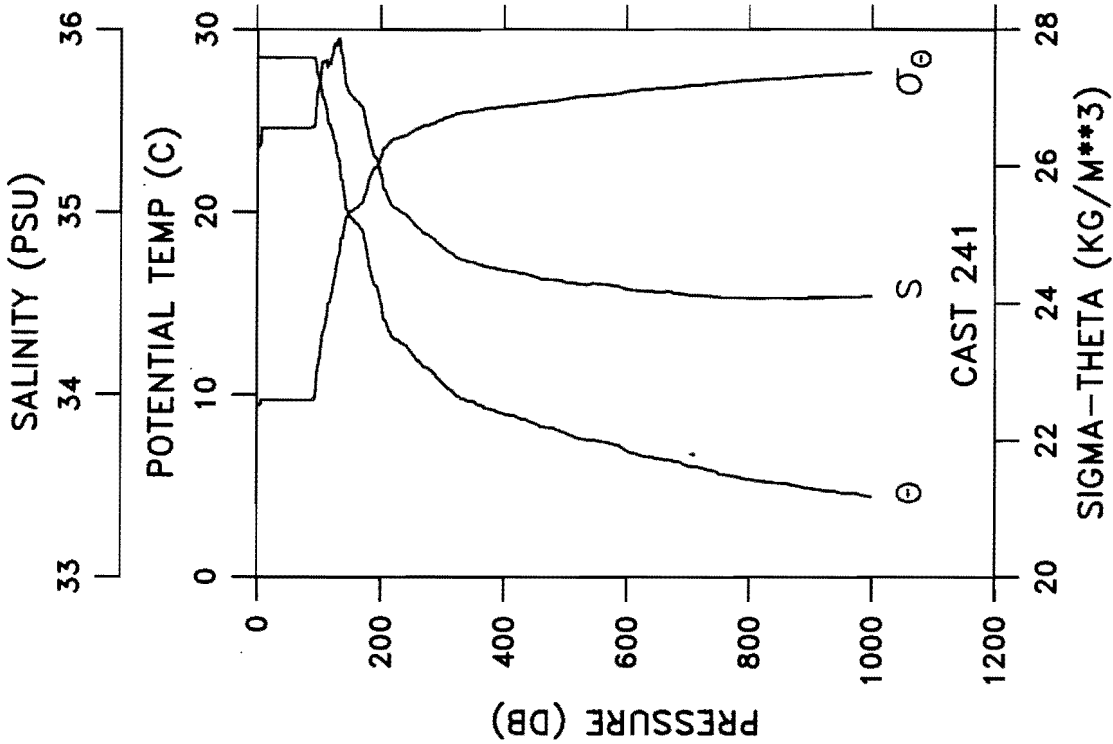


CAST GP3-99-KA-0231 DATE 16 JUL 99 TIME 1049 GMT
 LAT 06 00.0S LONG 170 00.6W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 096 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.8 WET 24.5 DEPTH 4806 M



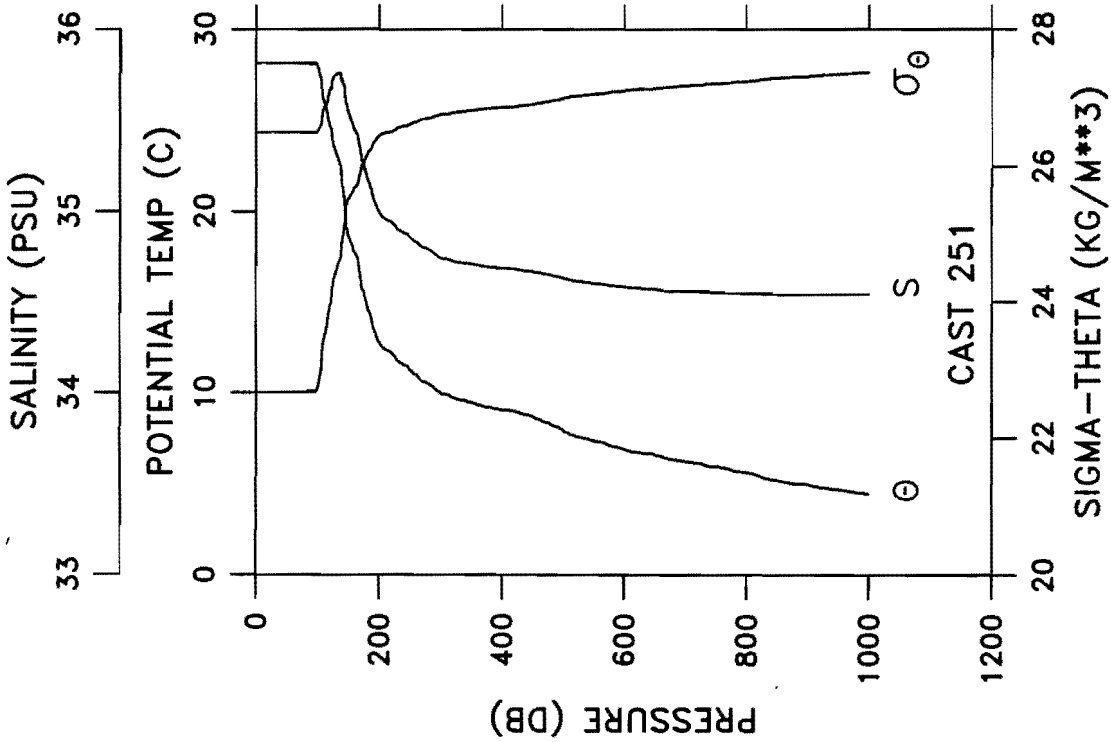
CAST GP3-99-KA-0241 DATE 16 JUL 99 TIME 1755 GMT
 LAT 05 00.3S LONG 170 00.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 104 T SPD 17 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.8 WET 25.4 DEPTH 5418 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.449	35.356	22.517	0.000
10	28.462	35.460	22.591	0.053
20	28.459	35.460	22.592	0.105
30	28.460	35.460	22.591	0.158
40	28.460	35.460	22.591	0.211
50	28.459	35.460	22.592	0.263
60	28.459	35.460	22.592	0.316
70	28.459	35.460	22.592	0.369
80	28.457	35.460	22.593	0.422
90	28.441	35.464	22.601	0.474
100	27.241	35.699	23.169	0.525
110	25.905	35.825	23.688	0.570
120	24.494	35.844	24.135	0.610
130	22.982	35.938	24.652	0.646
140	21.009	35.787	25.092	0.677
150	19.698	35.647	25.336	0.705
160	19.372	35.610	25.393	0.731
170	19.021	35.578	25.459	0.757
180	17.304	35.419	25.764	0.782
190	16.004	35.302	25.980	0.803
200	15.028	35.209	26.128	0.824
250	12.283	34.951	26.497	0.909
300	10.688	34.812	26.686	0.984
350	9.631	34.726	26.801	1.051
400	8.963	34.680	26.874	1.115
450	8.452	34.646	26.927	1.177
500	7.920	34.616	26.985	1.236
550	7.506	34.608	27.039	1.292
600	6.962	34.578	27.092	1.347
650	6.513	34.564	27.141	1.398
700	6.103	34.546	27.181	1.448
750	5.689	34.534	27.224	1.497
800	5.380	34.530	27.258	1.543
900	4.870	34.532	27.319	1.631
1000	4.425	34.542	27.377	1.714
1003	4.400	34.541	27.378	1.716



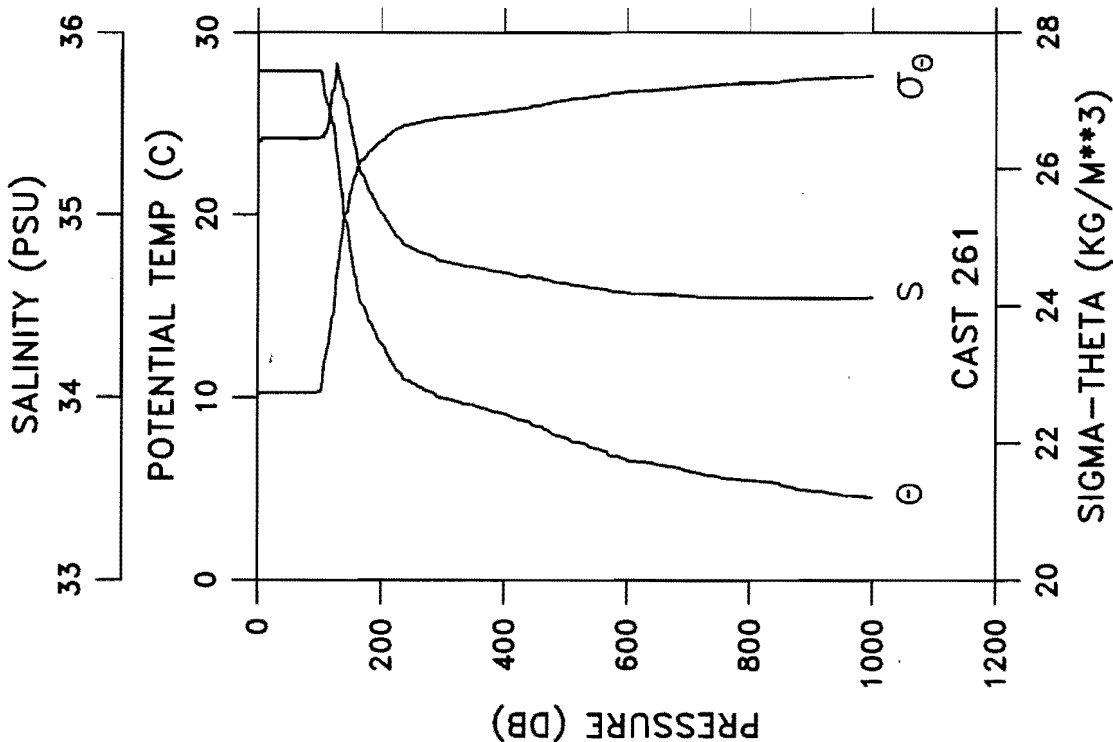
CAST GP3-99-KA-0251 DATE 17 JUL 99 TIME 1146 GMT
 LAT 03 59.6S LONG 170 00.1W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 087 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.6 WET 24.5 DEPTH 5745 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.158	35.438	22.675	0.000
10	28.168	35.437	22.670	0.052
20	28.162	35.437	22.672	0.103
30	28.162	35.437	22.673	0.155
40	28.159	35.437	22.673	0.207
50	28.159	35.437	22.673	0.259
60	28.149	35.437	22.677	0.311
70	28.126	35.435	22.682	0.363
80	28.117	35.434	22.685	0.415
90	28.111	35.434	22.687	0.467
100	27.930	35.444	22.753	0.519
110	26.049	35.565	23.446	0.567
120	24.653	35.675	23.959	0.609
130	23.154	35.759	24.467	0.647
140	21.374	35.720	24.941	0.680
150	18.656	35.541	25.524	0.708
160	17.714	35.447	25.686	0.732
170	16.173	35.312	25.949	0.755
180	14.738	35.186	26.174	0.774
190	13.545	35.072	26.338	0.793
200	12.720	34.997	26.447	0.809
250	11.248	34.857	26.620	0.887
300	9.929	34.741	26.762	0.957
350	9.474	34.710	26.814	1.023
400	9.070	34.685	26.861	1.087
450	8.698	34.666	26.905	1.150
500	7.940	34.630	26.993	1.209
550	7.350	34.603	27.057	1.265
600	6.883	34.583	27.106	1.319
650	6.578	34.571	27.138	1.370
700	6.219	34.559	27.176	1.420
750	5.937	34.553	27.207	1.469
800	5.628	34.546	27.241	1.516
900	4.964	34.539	27.314	1.604
1000	4.451	34.544	27.376	1.687
1001	4.448	34.544	27.376	1.688

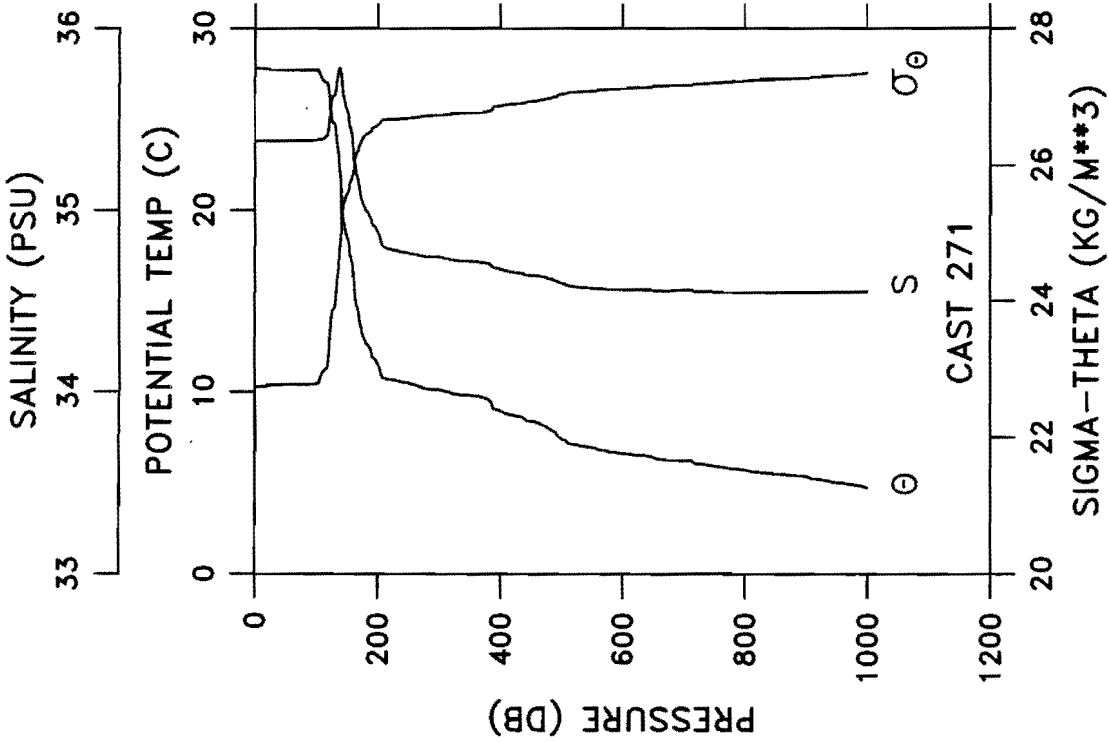


CAST GP3-99-KA-0261 DATE 17 JUL 99 TIME 1814 GMT
 LAT 02 59.8S LONG 170 01.5W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 110 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.2 WET 25.0 DEPTH 4824 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.917	35.404	22.728	0.000
10	27.911	35.419	22.741	0.051
20	27.912	35.419	22.740	0.102
30	27.912	35.419	22.740	0.153
40	27.916	35.419	22.739	0.205
50	27.914	35.419	22.740	0.256
60	27.914	35.419	22.740	0.307
70	27.914	35.419	22.740	0.359
80	27.909	35.419	22.742	0.410
90	27.906	35.419	22.743	0.461
100	27.880	35.423	22.754	0.513
110	26.393	35.446	23.249	0.562
120	25.060	35.683	23.841	0.606
130	22.652	35.773	24.622	0.644
140	19.750	35.641	25.318	0.674
150	17.954	35.495	25.664	0.700
160	16.172	35.325	25.959	0.722
170	15.012	35.211	26.133	0.742
180	14.136	35.126	26.256	0.761
190	13.584	35.070	26.329	0.779
200	12.945	35.012	26.414	0.795
250	10.805	34.813	26.665	0.871
300	9.985	34.745	26.756	0.940
350	9.620	34.714	26.793	1.007
400	9.118	34.683	26.851	1.072
450	8.456	34.655	26.934	1.134
500	7.800	34.624	27.008	1.192
550	7.195	34.597	27.074	1.247
600	6.552	34.570	27.141	1.299
650	6.326	34.562	27.165	1.349
700	5.977	34.554	27.203	1.398
750	5.666	34.546	27.236	1.445
800	5.462	34.542	27.258	1.491
900	4.889	34.541	27.324	1.579
1000	4.540	34.544	27.365	1.662
1003	4.529	34.544	27.367	1.664

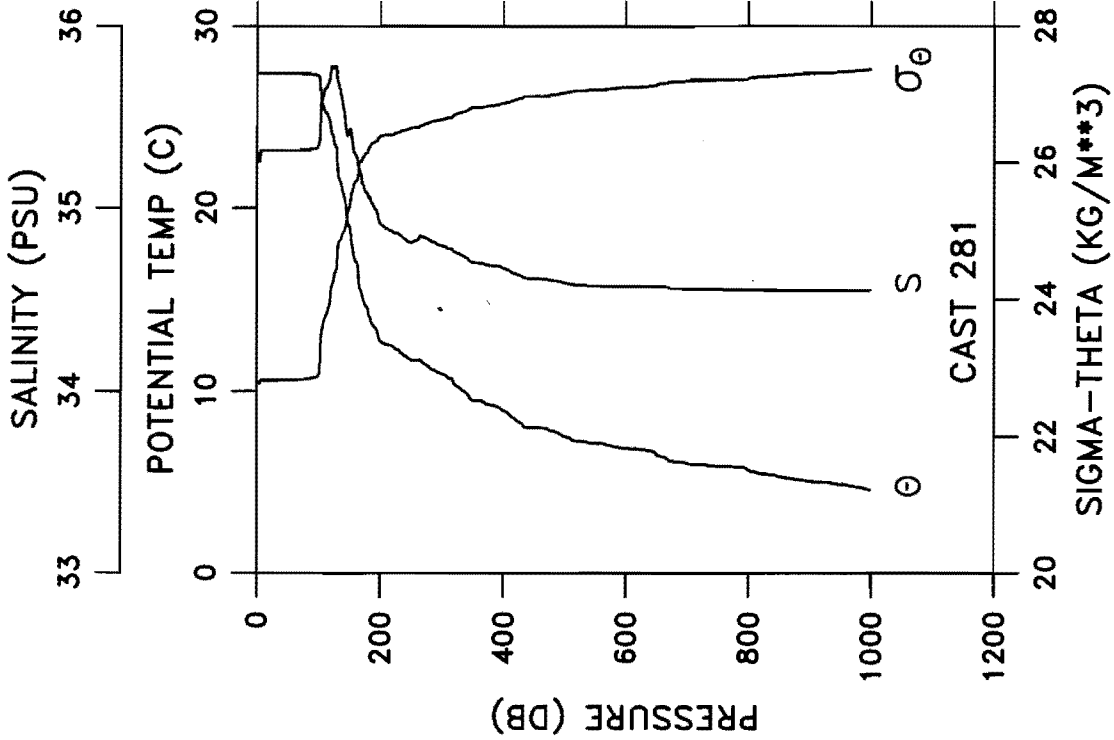


CAST GP3-99-KA-0271 DATE 18 JUL 99 TIME 0141 GMT
 LAT 02 09.55 LONG 170 02.7W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 092 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.6 WET 25.0 DEPTH 5441 M



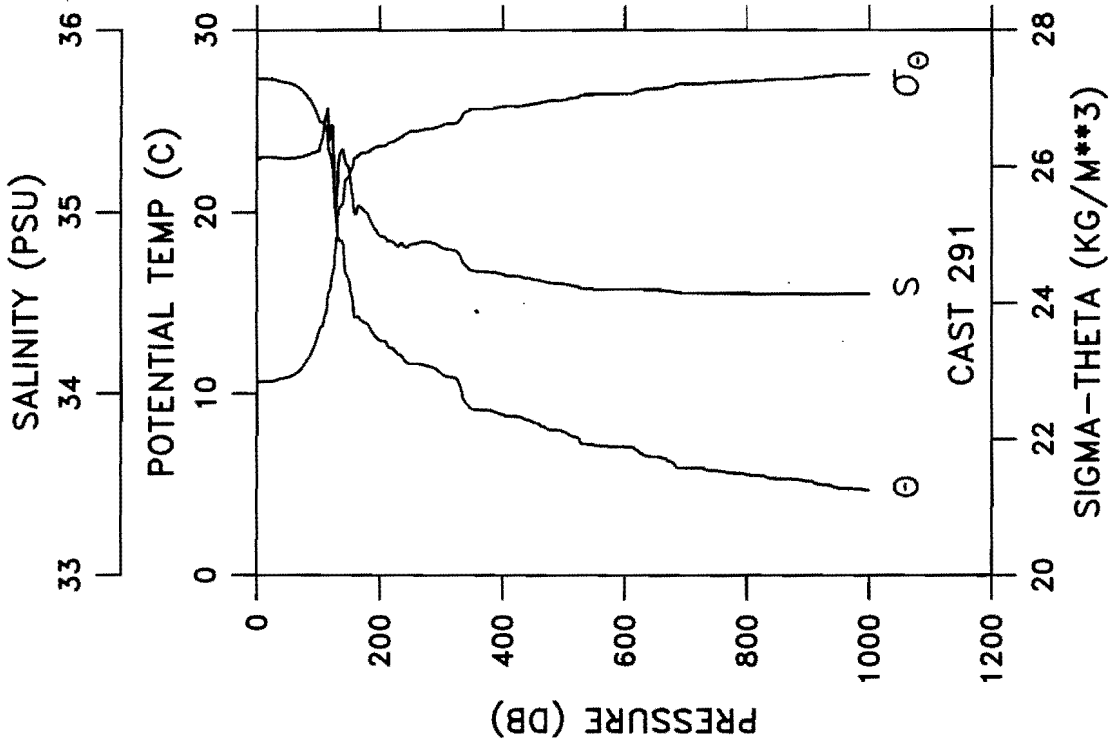
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.830	35.382	22.740	0.000
10	27.816	35.383	22.745	0.051
20	27.789	35.382	22.753	0.102
30	27.749	35.382	22.766	0.153
40	27.739	35.382	22.769	0.204
50	27.729	35.382	22.773	0.255
60	27.728	35.382	22.773	0.306
70	27.724	35.382	22.774	0.357
80	27.719	35.383	22.777	0.408
90	27.716	35.384	22.779	0.459
100	27.701	35.389	22.787	0.510
110	27.201	35.393	22.952	0.561
120	26.603	35.465	23.196	0.610
130	24.677	35.640	23.925	0.652
140	21.214	35.746	25.004	0.687
150	18.488	35.548	25.571	0.714
160	16.299	35.324	25.929	0.737
170	13.928	35.118	26.294	0.756
180	12.733	35.001	26.447	0.773
190	11.967	34.928	26.540	0.789
200	11.529	34.877	26.583	0.804
250	10.484	34.761	26.682	0.875
300	10.100	34.739	26.731	0.944
350	9.810	34.716	26.763	1.012
400	8.947	34.673	26.871	1.078
450	8.403	34.639	26.930	1.139
500	7.400	34.594	27.043	1.197
550	6.937	34.568	27.088	1.251
600	6.620	34.561	27.125	1.303
650	6.369	34.555	27.154	1.354
700	6.216	34.558	27.176	1.403
750	5.898	34.548	27.209	1.452
800	5.684	34.546	27.234	1.499
900	5.331	34.544	27.275	1.591
1000	4.730	34.551	27.350	1.677
1003	4.699	34.551	27.354	1.680

CAST GP3-99-KA-0281 DATE 18 JUL 99 TIME 1536 GMT
 LAT 00 59.8S LONG 170 01.5W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 080 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.0 WET 25.1 DEPTH 5157 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.420	35.263	22.783	0.000
10	27.420	35.314	22.821	0.050
20	27.416	35.314	22.823	0.101
30	27.418	35.314	22.823	0.151
40	27.411	35.316	22.825	0.202
50	27.403	35.317	22.829	0.252
60	27.398	35.317	22.831	0.302
70	27.385	35.319	22.837	0.353
80	27.365	35.321	22.845	0.403
90	27.329	35.325	22.859	0.454
100	27.256	35.347	22.899	0.504
110	25.317	35.651	23.738	0.549
120	24.217	35.774	24.165	0.590
130	22.534	35.695	24.596	0.626
140	20.757	35.549	24.979	0.657
150	19.016	35.428	25.345	0.686
160	17.058	35.291	25.725	0.710
170	15.290	35.151	26.025	0.732
180	14.356	35.055	26.155	0.752
190	13.488	35.000	26.294	0.770
200	12.698	34.914	26.387	0.787
250	11.695	34.811	26.500	0.869
300	10.937	34.793	26.626	0.946
350	9.499	34.702	26.804	1.016
400	8.954	34.671	26.868	1.081
450	8.000	34.612	26.970	1.141
500	7.516	34.588	27.021	1.198
550	7.132	34.573	27.064	1.253
600	6.851	34.570	27.101	1.306
650	6.528	34.568	27.143	1.358
700	6.039	34.558	27.198	1.407
750	5.872	34.555	27.217	1.455
800	5.676	34.553	27.240	1.502
900	5.070	34.547	27.308	1.592
1000	4.585	34.553	27.368	1.677
1003	4.553	34.553	27.372	1.679

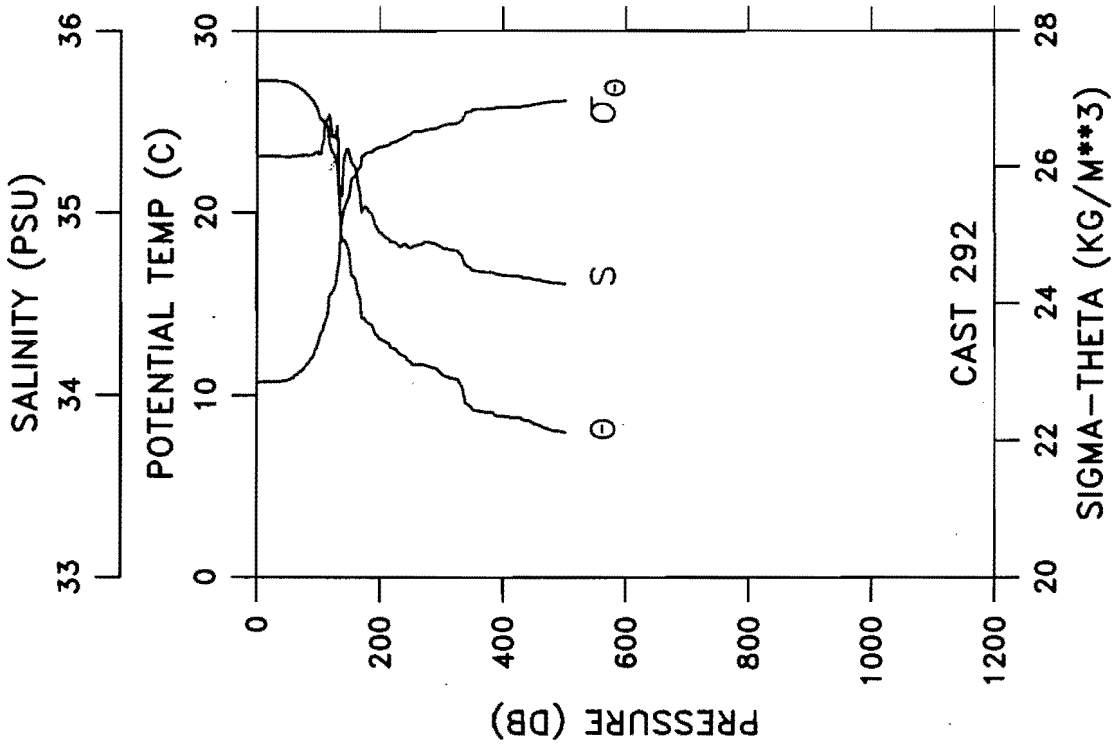
CAST GP3-99-KA-0291 DATE 19 JUL 99 TIME 0911 GMT
 LAT 00 00.2S LONG 169 47.5W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 064 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.8 WET 24.2 DEPTH 5417 M



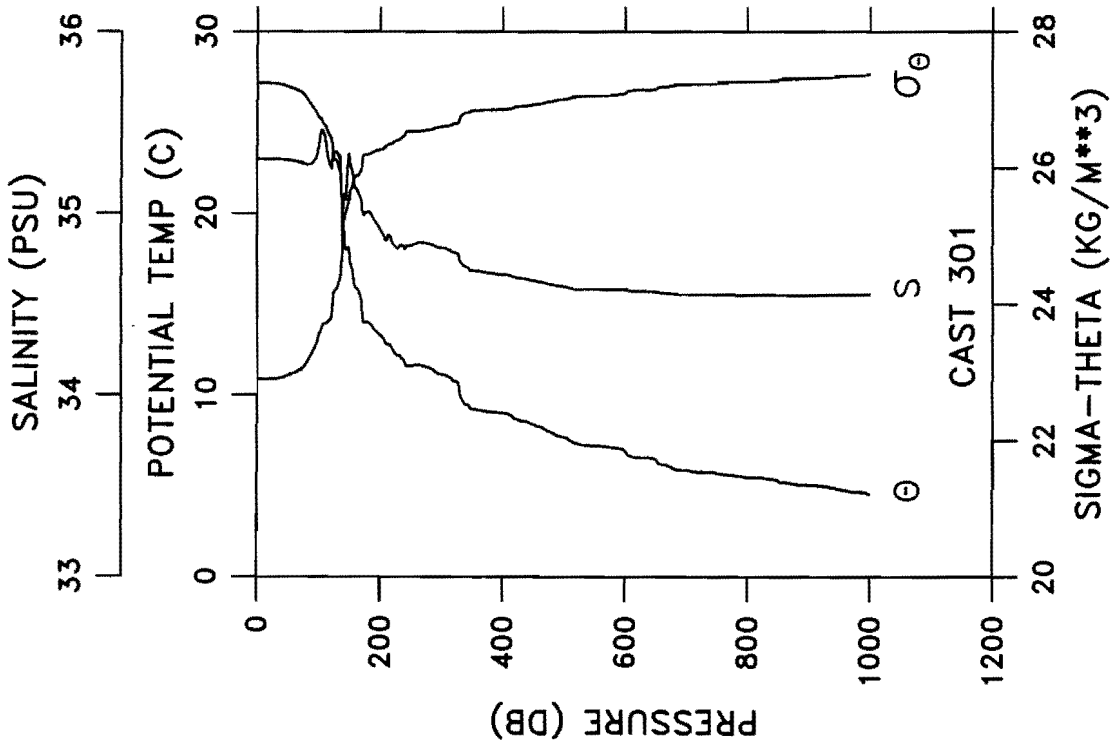
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.322	35.291	22.836	0.000
10	27.320	35.303	22.845	0.050
20	27.317	35.303	22.846	0.100
30	27.264	35.300	22.861	0.150
40	27.164	35.296	22.890	0.200
50	27.099	35.296	22.911	0.250
60	26.996	35.299	22.946	0.299
70	26.794	35.303	23.014	0.348
80	26.444	35.314	23.133	0.397
90	25.941	35.328	23.301	0.444
100	25.161	35.340	23.551	0.489
110	24.764	35.499	23.792	0.531
120	23.072	35.434	24.244	0.571
130	19.312	35.128	25.040	0.605
140	18.226	35.342	25.479	0.631
150	16.207	35.221	25.871	0.654
160	14.212	34.990	26.135	0.674
170	14.013	35.022	26.202	0.693
180	13.854	34.993	26.213	0.712
190	13.250	34.915	26.277	0.730
200	12.941	34.870	26.305	0.747
250	11.651	34.823	26.519	0.832
300	11.130	34.807	26.602	0.909
350	9.149	34.680	26.844	0.980
400	8.849	34.659	26.875	1.043
450	8.434	34.629	26.917	1.105
500	7.920	34.606	26.976	1.164
550	7.175	34.577	27.061	1.220
600	7.097	34.576	27.072	1.274
650	6.530	34.570	27.144	1.326
700	5.913	34.555	27.213	1.375
750	5.763	34.553	27.230	1.422
800	5.546	34.551	27.254	1.468
900	5.178	34.549	27.297	1.558
1000	4.680	34.552	27.356	1.643
1500	3.075	34.597	27.557	2.000
2000	2.133	34.637	27.671	2.285
2500	1.696	34.660	27.722	2.533
3000	1.412	34.672	27.754	2.764
3500	1.258	34.680	27.771	2.988
4000	1.084	34.691	27.792	3.208
4008	1.083	34.691	27.792	3.212

CAST GP3-99-KA-0292 DATE 19 JUL 99 TIME 1521 GMT
 LAT 00 00.0N LONG 169 45.9W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 080 T SPD 13 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.7 WET 24.5 DEPTH 5419 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.260	35.307	22.867	0.000
10	27.257	35.307	22.869	0.050
20	27.256	35.306	22.869	0.100
30	27.246	35.306	22.871	0.150
40	27.226	35.305	22.877	0.200
50	27.167	35.304	22.896	0.249
60	27.042	35.306	22.937	0.299
70	26.805	35.311	23.016	0.348
80	26.543	35.312	23.100	0.397
90	26.156	35.314	23.224	0.444
100	25.454	35.330	23.453	0.490
110	24.963	35.480	23.717	0.533
120	23.537	35.470	24.136	0.574
130	22.554	35.474	24.423	0.611
140	18.516	35.250	25.336	0.642
150	17.680	35.316	25.594	0.668
160	16.246	35.234	25.872	0.690
170	14.184	35.000	26.149	0.711
180	13.950	35.012	26.208	0.730
190	13.501	34.946	26.250	0.748
200	13.072	34.890	26.294	0.766
250	11.757	34.805	26.485	0.851
300	11.144	34.807	26.600	0.929
350	9.221	34.680	26.832	1.000
400	8.850	34.655	26.872	1.063
450	8.443	34.631	26.917	1.125
500	7.956	34.607	26.972	1.185
501	7.948	34.607	26.973	1.186

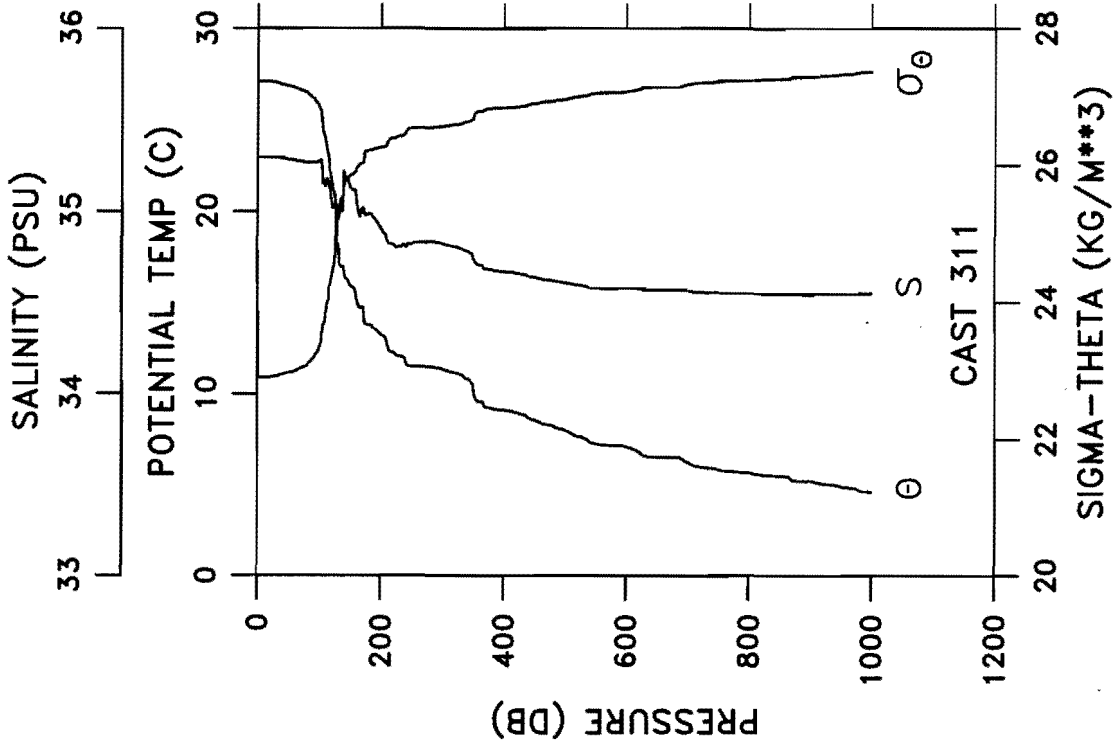


CAST GP3-99-KA-0301 DATE 20 JUL 99 TIME 1313 GMT
 LAT 00 15.6N LONG 169 45.7W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 070 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.4 WET 23.9 DEPTH 5073 M



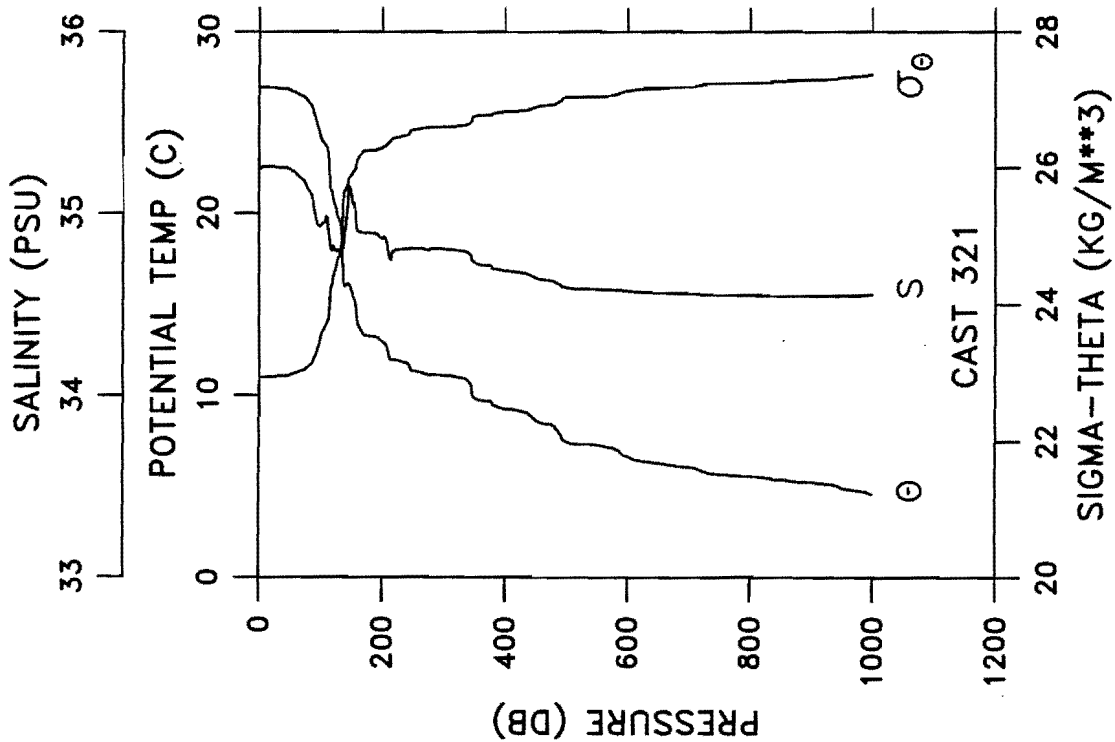
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.138	35.300	22.901	0.000
10	27.145	35.298	22.898	0.050
20	27.128	35.298	22.903	0.059
30	27.113	35.297	22.907	0.149
40	27.053	35.295	22.925	0.198
50	26.944	35.293	22.958	0.248
60	26.845	35.288	22.987	0.297
70	26.673	35.281	23.036	0.345
80	26.341	35.269	23.132	0.394
90	25.826	35.278	23.299	0.441
100	25.247	35.363	23.542	0.486
110	24.819	35.418	23.714	0.529
120	24.144	35.252	23.791	0.571
130	22.854	35.333	24.230	0.609
140	19.340	35.022	24.952	0.644
150	17.863	35.313	25.547	0.671
160	15.885	35.136	25.879	0.694
170	15.061	35.057	26.004	0.715
180	14.003	35.007	26.192	0.734
190	13.625	34.962	26.237	0.752
200	13.286	34.910	26.266	0.771
250	11.598	34.821	26.527	0.855
300	11.149	34.808	26.600	0.932
350	9.236	34.685	26.834	1.002
400	9.017	34.662	26.851	1.066
450	8.391	34.630	26.924	1.128
500	7.691	34.596	27.003	1.187
550	7.238	34.583	27.057	1.242
600	6.943	34.580	27.096	1.296
650	6.463	34.568	27.151	1.347
700	5.873	34.554	27.217	1.395
750	5.698	34.552	27.237	1.441
800	5.478	34.550	27.262	1.487
900	5.048	34.548	27.312	1.576
1000	4.542	34.554	27.374	1.660
1500	2.974	34.600	27.569	2.009
2000	2.135	34.637	27.670	2.293
2500	1.712	34.659	27.721	2.540
3000	1.410	34.673	27.754	2.774
3500	1.263	34.680	27.771	2.998
4000	1.084	34.691	27.792	3.218
4008	1.083	34.691	27.792	3.221

CAST GP3-99-KA-0311 DATE 21 JUL 99 TIME 0642 GMT
 LAT 00 29.7N LONG 170 01.4W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 092 T SPD 14 KT VISIBILITY 7
 CLOUD 1 AMOUNT 8 DRY 26.9 WET 24.5 DEPTH 5417 M



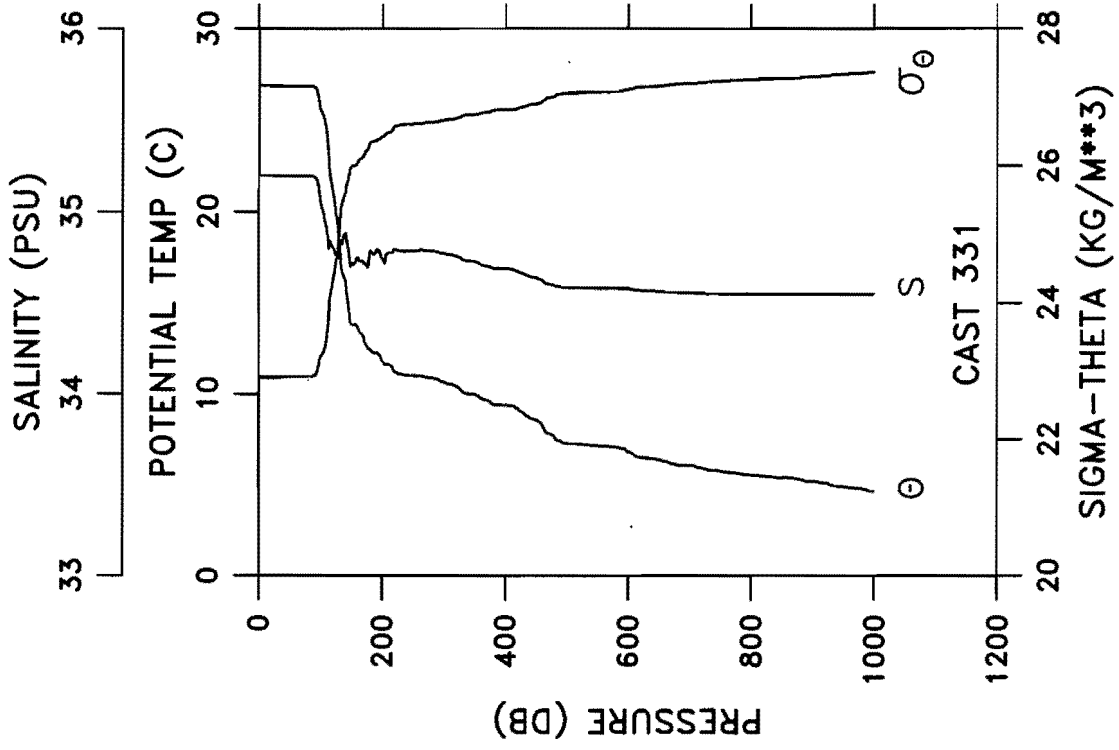
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.115	35.298	22.908	0.000
10	27.112	35.298	22.908	0.049
20	27.104	35.298	22.911	0.099
30	27.063	35.296	22.923	0.148
40	26.947	35.292	22.956	0.198
50	26.857	35.285	22.980	0.247
60	26.765	35.279	23.005	0.296
70	26.613	35.272	23.048	0.344
80	26.486	35.268	23.085	0.393
90	26.179	35.268	23.182	0.440
100	25.658	35.279	23.352	0.487
110	23.801	35.170	23.830	0.530
120	21.549	35.036	24.372	0.569
130	18.162	34.990	25.225	0.601
140	16.760	35.210	25.733	0.627
150	15.934	35.129	25.863	0.649
160	15.239	35.051	25.959	0.670
170	14.774	35.018	26.036	0.691
180	13.776	34.986	26.224	0.710
190	13.561	34.954	26.244	0.728
200	13.251	34.900	26.265	0.746
250	11.499	34.819	26.544	0.830
300	11.356	34.824	26.574	0.907
350	10.317	34.745	26.699	0.981
400	9.110	34.671	26.843	1.046
450	8.562	34.639	26.905	1.110
500	7.989	34.609	26.969	1.169
550	7.247	34.582	27.055	1.226
600	7.069	34.579	27.078	1.280
650	6.515	34.569	27.145	1.332
700	6.214	34.563	27.180	1.382
750	5.799	34.554	27.226	1.430
800	5.644	34.552	27.243	1.477
900	5.206	34.546	27.292	1.567
1000	4.609	34.552	27.365	1.652
1002	4.605	34.552	27.365	1.654

CAST GP3-99-KA-0321 DATE 21 JUL 99 TIME 1029 GMT
 LAT 01 00.1N LONG 170 01.6W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 090 T SPD 15 KT VISIBILITY 7
 CLOUD 4 AMOUNT 8 DRY 26.8 WET 24.8 DEPTH 5457 M



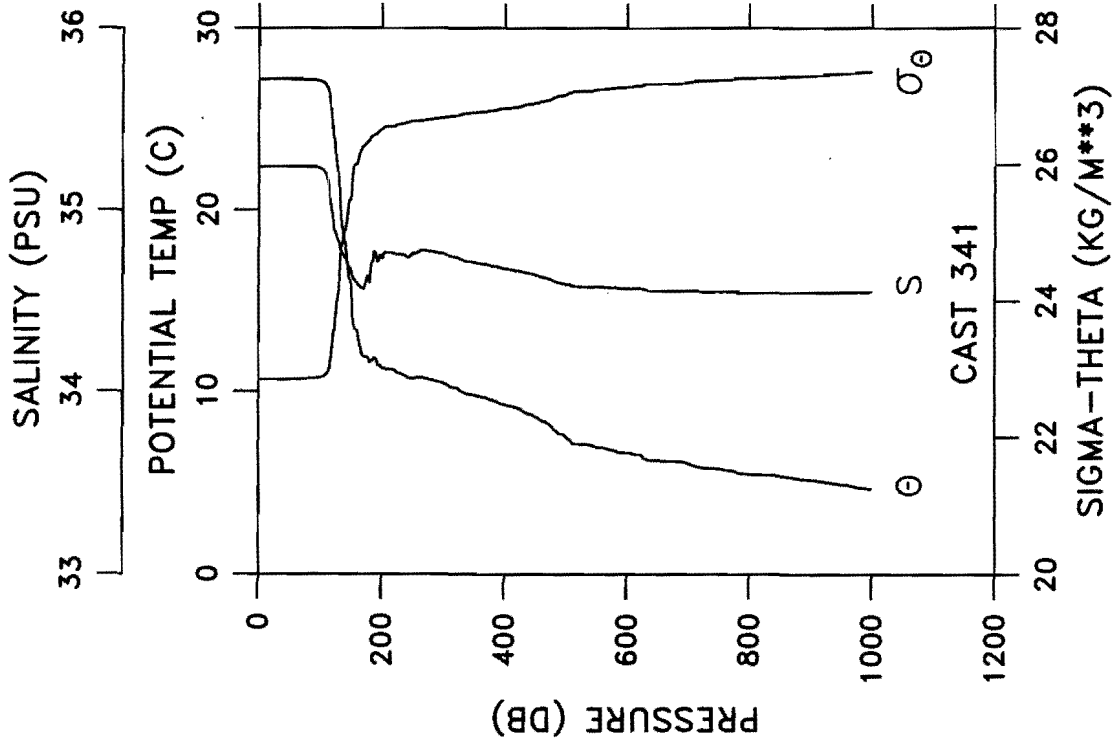
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.920	35.245	22.930	0.000
10	26.924	35.255	22.936	0.049
20	26.918	35.255	22.938	0.098
30	26.868	35.251	22.951	0.148
40	26.851	35.249	22.955	0.197
50	26.790	35.242	22.969	0.246
60	26.631	35.218	23.002	0.295
70	26.454	35.187	23.034	0.344
80	26.117	35.127	23.095	0.392
90	25.389	35.011	23.233	0.440
100	24.178	34.930	23.537	0.485
110	23.605	34.976	23.741	0.528
120	20.833	34.819	24.403	0.567
130	19.630	34.794	24.703	0.601
140	16.012	34.914	25.679	0.629
150	15.704	35.101	25.893	0.651
160	13.917	34.901	26.129	0.672
170	13.311	34.892	26.247	0.691
180	13.263	34.891	26.256	0.709
190	13.217	34.885	26.261	0.727
200	12.927	34.857	26.297	0.745
250	11.381	34.806	26.555	0.827
300	11.121	34.803	26.601	0.903
350	9.890	34.729	26.759	0.977
400	9.264	34.683	26.827	1.043
450	8.639	34.643	26.896	1.107
500	7.469	34.592	27.031	1.167
550	7.297	34.583	27.049	1.222
600	6.660	34.573	27.129	1.276
650	6.295	34.563	27.170	1.325
700	6.071	34.558	27.194	1.374
750	5.670	34.552	27.240	1.421
800	5.564	34.551	27.252	1.467
900	5.229	34.547	27.289	1.557
1000	4.571	34.554	27.370	1.643
1005	4.539	34.554	27.374	1.647

CAST GP3-99-KA-0331 DATE 21 JUL 99 TIME 1434 GMT
 LAT 01 30.6N LONG 170 02.1W WEATHER 1 SEA STATE 3
 BAROMETER 07 WIND DIR 120 T SPD 12 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 26.8 WET 25.7 DEPTH 5508 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.887	35.201	22.907	0.000
10	26.889	35.197	22.904	0.049
20	26.890	35.197	22.904	0.099
30	26.888	35.197	22.904	0.149
40	26.842	35.196	22.918	0.198
50	26.828	35.196	22.922	0.248
60	26.825	35.196	22.923	0.297
70	26.819	35.196	22.925	0.347
80	26.809	35.194	22.927	0.396
90	26.775	35.189	22.934	0.446
100	25.530	35.044	23.214	0.495
110	24.215	34.891	23.497	0.541
120	21.039	34.803	24.335	0.580
130	18.330	34.762	25.010	0.614
140	16.247	34.881	25.600	0.640
150	13.875	34.719	25.997	0.662
160	13.747	34.748	26.046	0.682
170	13.107	34.718	26.154	0.702
180	12.448	34.790	26.340	0.720
190	12.292	34.790	26.370	0.737
200	11.795	34.740	26.426	0.754
250	10.994	34.786	26.610	0.830
300	10.640	34.771	26.662	0.903
350	9.977	34.727	26.743	0.973
400	9.381	34.689	26.813	1.040
450	8.576	34.639	26.902	1.104
500	7.281	34.585	27.053	1.161
550	7.141	34.582	27.070	1.215
600	6.817	34.577	27.111	1.268
650	6.381	34.565	27.159	1.319
700	6.054	34.557	27.196	1.367
750	5.748	34.551	27.229	1.415
800	5.534	34.550	27.255	1.461
900	5.202	34.547	27.293	1.551
1000	4.616	34.552	27.364	1.637
1001	4.610	34.551	27.364	1.637

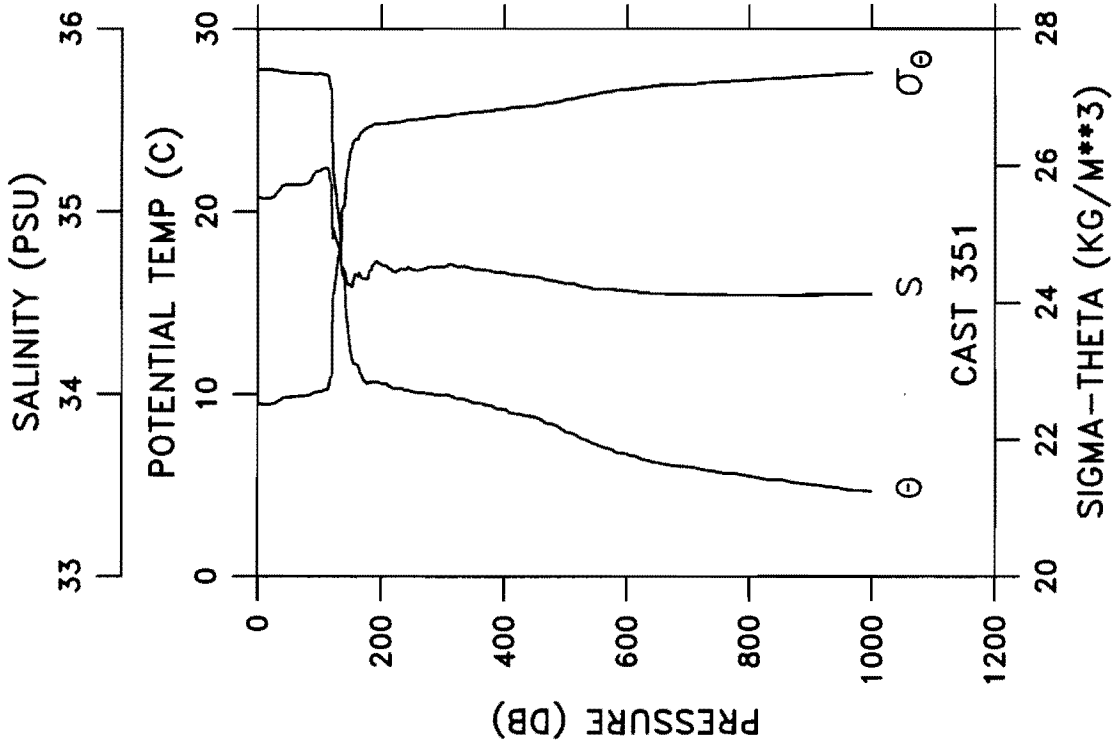
CAST GP3-99-KA-0341 DATE 21 JUL 99 TIME 1818 GMT
 LAT 01 59.2N LONG 170 02.1W WEATHER 1 SEA STATE 3
 BAROMETER 07 WIND DIR 115 T SPD 15 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 26.9 WET 25.0 DEPTH 5402 M



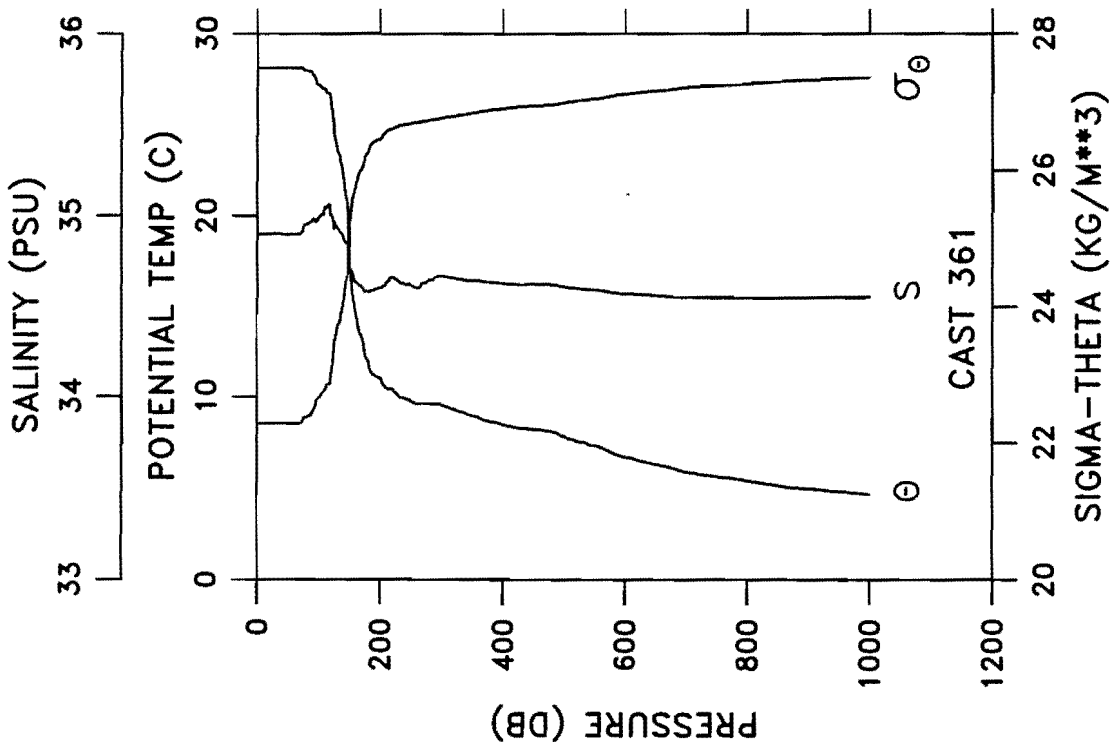
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.161	35.238	22.847	0.000
10	27.161	35.240	22.849	0.050
20	27.165	35.240	22.848	0.100
30	27.163	35.240	22.848	0.150
40	27.172	35.240	22.845	0.200
50	27.163	35.240	22.848	0.251
60	27.159	35.240	22.849	0.301
70	27.132	35.238	22.857	0.351
80	27.115	35.237	22.862	0.401
90	27.111	35.237	22.863	0.452
100	27.051	35.228	22.875	0.502
110	26.780	35.181	22.926	0.552
120	24.628	34.955	23.422	0.600
130	21.747	34.812	24.147	0.642
140	18.142	34.733	25.033	0.674
150	15.940	34.667	25.506	0.701
160	13.343	34.594	26.010	0.722
170	11.952	34.566	26.262	0.741
180	11.805	34.600	26.353	0.759
190	11.815	34.758	26.437	0.775
200	11.322	34.735	26.511	0.791
250	10.744	34.758	26.634	0.866
300	10.449	34.757	26.685	0.939
350	9.818	34.711	26.758	1.008
400	9.292	34.676	26.818	1.074
450	8.622	34.641	26.897	1.138
500	7.539	34.590	27.020	1.197
550	6.966	34.579	27.092	1.251
600	6.639	34.567	27.127	1.303
650	6.218	34.555	27.173	1.353
700	6.038	34.554	27.196	1.402
750	5.767	34.551	27.228	1.449
800	5.477	34.546	27.259	1.495
900	5.163	34.545	27.296	1.585
1000	4.674	34.551	27.356	1.670
1005	4.571	34.552	27.369	1.674

CAST GP3-99-KA-0351 DATE 22 JUL 99 TIME 0246 GMT
 LAT 02 59.9N LONG 170 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 083 T SPD 15 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 26.9 WET 24.2 DEPTH 5484 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.777	35.078	22.528	0.000
10	27.775	35.073	22.525	0.053
20	27.773	35.074	22.527	0.106
30	27.746	35.099	22.554	0.159
40	27.649	35.140	22.617	0.212
50	27.630	35.147	22.628	0.264
60	27.599	35.146	22.637	0.317
70	27.584	35.148	22.643	0.369
80	27.578	35.156	22.651	0.421
90	27.556	35.202	22.693	0.473
100	27.560	35.224	22.708	0.525
110	27.500	35.239	22.740	0.577
120	25.999	34.992	23.029	0.628
130	19.854	34.814	24.660	0.665
140	16.343	34.669	25.415	0.694
150	12.309	34.597	26.217	0.715
160	11.633	34.655	26.391	0.733
170	10.890	34.634	26.511	0.749
180	10.654	34.669	26.581	0.764
190	10.683	34.725	26.619	0.779
200	10.596	34.709	26.621	0.793
250	10.154	34.685	26.680	0.865
300	9.964	34.702	26.725	0.935
350	9.535	34.688	26.787	1.002
400	9.180	34.668	26.830	1.068
450	8.763	34.645	26.878	1.131
500	7.948	34.606	26.973	1.192
550	7.258	34.582	27.054	1.249
600	6.727	34.570	27.117	1.302
650	6.242	34.556	27.171	1.352
700	6.006	34.550	27.197	1.400
750	5.709	34.548	27.232	1.448
800	5.503	34.544	27.254	1.494
900	5.042	34.547	27.312	1.583
1000	4.657	34.551	27.358	1.667
1003	4.652	34.551	27.359	1.669



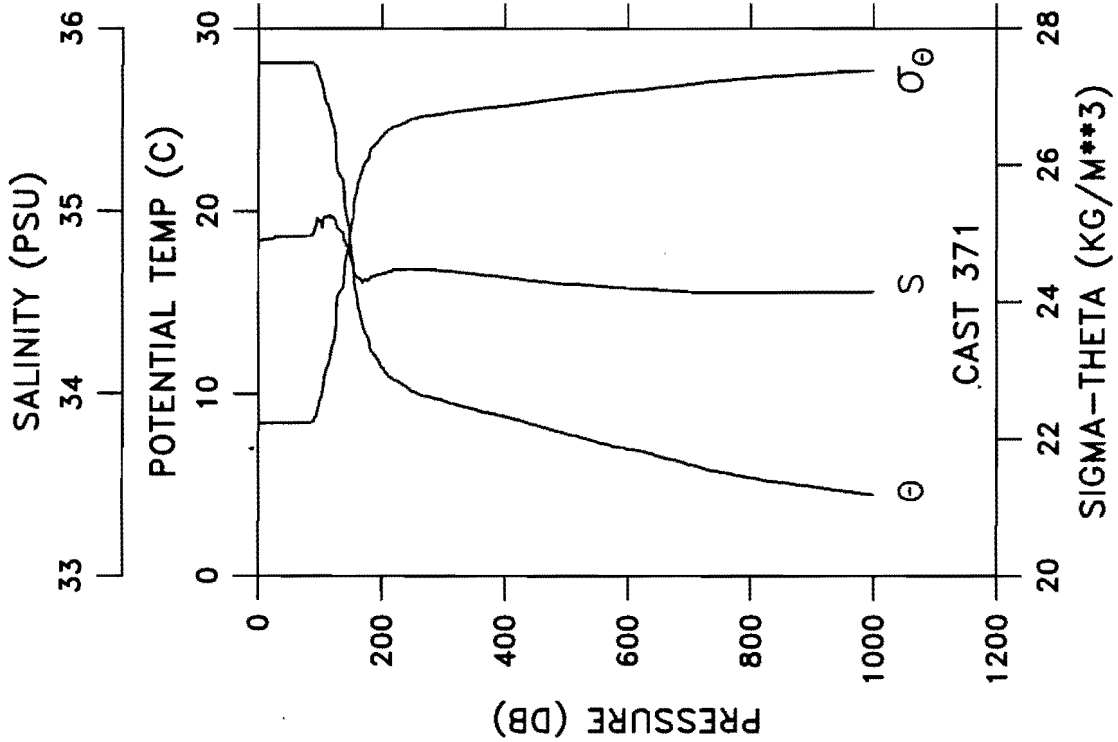
CAST GP3-99-KA-0361 DATE 22 JUL 99 TIME 1000 GMT
 LAT 04 00.0N LONG 169 58.7W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 080 T SPD 14 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.2 WET 25.6 DEPTH 5680 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.126	34.898	22.279	0.000
10	28.125	34.897	22.279	0.055
20	28.133	34.900	22.278	0.111
30	28.137	34.901	22.278	0.167
40	28.129	34.897	22.278	0.222
50	28.127	34.898	22.278	0.278
60	28.126	34.898	22.279	0.334
70	28.120	34.901	22.283	0.389
80	27.966	34.954	22.373	0.445
90	27.756	34.978	22.460	0.499
100	27.194	34.993	22.652	0.553
110	26.979	35.051	22.765	0.604
120	26.125	35.004	22.999	0.655
130	23.621	34.932	23.703	0.700
140	22.109	34.874	24.093	0.741
150	17.335	34.741	25.237	0.776
160	14.547	34.633	25.788	0.801
170	13.242	34.604	26.038	0.822
180	11.986	34.582	26.268	0.841
190	11.212	34.590	26.418	0.858
200	11.044	34.604	26.460	0.874
250	9.766	34.616	26.692	0.947
300	9.552	34.667	26.768	1.015
350	8.966	34.642	26.844	1.080
400	8.478	34.627	26.909	1.142
450	8.219	34.624	26.946	1.202
500	7.839	34.608	26.990	1.261
550	7.359	34.591	27.047	1.317
600	6.710	34.570	27.120	1.370
650	6.331	34.559	27.162	1.421
700	5.872	34.551	27.214	1.469
750	5.638	34.549	27.242	1.516
800	5.401	34.547	27.269	1.561
900	4.978	34.549	27.321	1.649
1000	4.655	34.554	27.361	1.732
1003	4.640	34.554	27.363	1.735

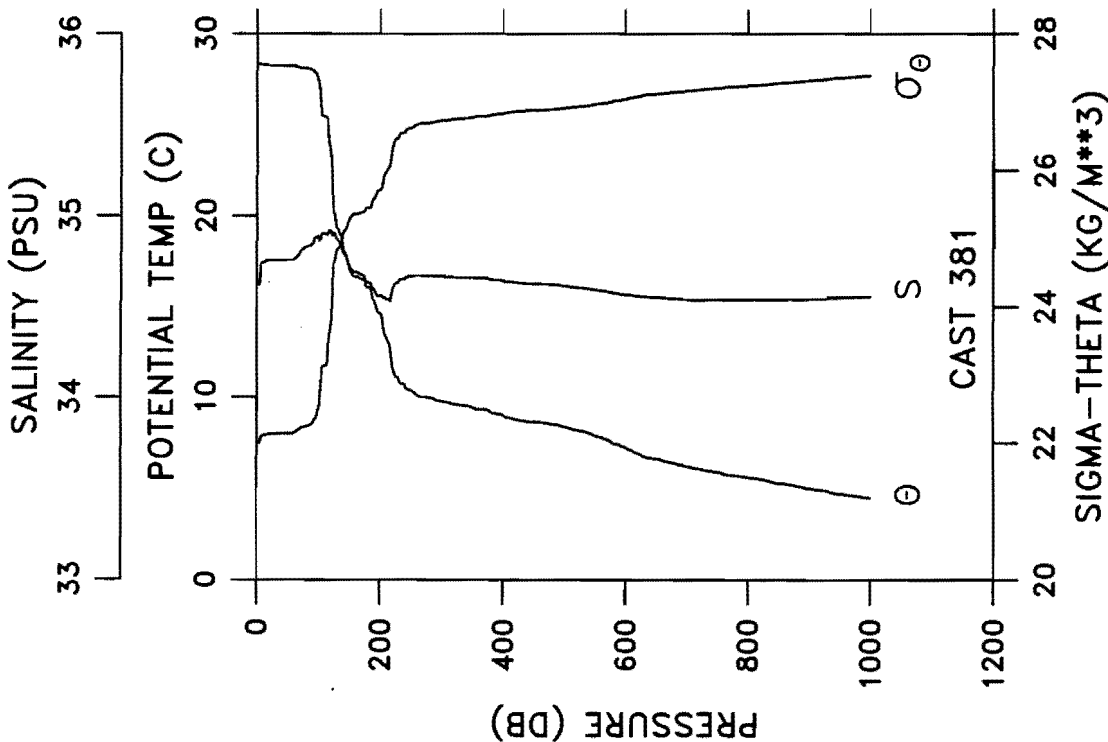
CAST GP3-99-KA-0371 DATE 22 JUL 99 TIME 1710 GMT
 LAT 04 56.8N LONG 169 57.9W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 090 T SPD 12 KT VISIBILITY 7
 CLOUD 2 AMOUNT 8 DRY 27.0 WET 25.0 DEPTH 5809 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.117	34.840	22.238	0.000
10	28.120	34.844	22.240	0.056
20	28.119	34.845	22.241	0.112
30	28.139	34.859	22.245	0.168
40	28.140	34.860	22.246	0.224
50	28.140	34.861	22.246	0.280
60	28.140	34.862	22.247	0.336
70	28.138	34.862	22.248	0.392
80	28.132	34.865	22.252	0.448
90	28.054	34.888	22.285	0.504
100	27.239	34.944	22.601	0.558
110	25.929	34.966	23.032	0.609
120	24.786	34.967	23.383	0.656
130	22.067	34.899	24.124	0.699
140	20.227	34.836	24.578	0.736
150	17.926	34.735	25.088	0.788
160	15.152	34.636	25.659	0.794
170	13.587	34.618	25.979	0.816
180	12.614	34.630	26.183	0.836
190	11.988	34.648	26.318	0.854
200	11.446	34.656	26.427	0.871
250	10.124	34.681	26.682	0.946
300	9.608	34.671	26.762	1.015
350	9.156	34.656	26.824	1.080
400	8.751	34.635	26.872	1.144
450	8.286	34.615	26.929	1.205
500	7.796	34.596	26.987	1.264
550	7.328	34.587	27.048	1.320
600	6.923	34.575	27.095	1.374
650	6.554	34.566	27.137	1.426
700	6.096	34.557	27.190	1.476
750	5.689	34.552	27.238	1.524
800	5.385	34.551	27.274	1.569
900	4.918	34.553	27.331	1.655
1000	4.456	34.559	27.387	1.737
1002	4.452	34.558	27.387	1.738



CAST GP3-99-KA-0381 DATE 30 JUL 99 TIME 0246 GMT
 LAT 08 33.0N LONG 167 16.3W WEATHER 1 SEA STATE 2
 BAROMETER 11 WIND DIR 053 T SPD 06 KT VISIBILITY 7
 CLOUD 3 AMOUNT 8 DRY 27.0 WET 24.6 DEPTH 4579 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.336	34.622	22.003	0.000
10	28.292	34.743	22.108	0.058
20	28.264	34.755	22.126	0.115
30	28.246	34.756	22.133	0.172
40	28.237	34.757	22.137	0.229
50	28.233	34.758	22.139	0.286
60	28.222	34.761	22.144	0.343
70	28.119	34.798	22.206	0.400
80	28.091	34.830	22.239	0.456
90	27.986	34.845	22.285	0.512
100	27.421	34.883	22.497	0.567
110	25.459	34.900	23.128	0.617
120	23.361	34.915	23.766	0.662
130	19.303	34.868	24.844	0.697
140	18.077	34.792	25.095	0.727
150	17.026	34.720	25.294	0.756
160	16.653	34.691	25.360	0.783
170	16.505	34.676	25.382	0.809
180	16.076	34.634	25.449	0.835
190	15.308	34.589	25.588	0.860
200	14.626	34.560	25.715	0.884
250	10.372	34.668	26.629	0.972
300	9.772	34.667	26.731	1.042
350	9.451	34.661	26.780	1.110
400	9.026	34.644	26.835	1.175
450	8.642	34.627	26.883	1.238
500	8.369	34.615	26.916	1.301
550	7.909	34.594	26.969	1.361
600	7.236	34.568	27.046	1.418
650	6.631	34.554	27.118	1.471
700	6.217	34.542	27.163	1.522
750	5.908	34.542	27.202	1.571
800	5.606	34.541	27.239	1.619
900	5.002	34.544	27.314	1.708
1000	4.474	34.557	27.384	1.791
1500	2.916	34.601	27.575	2.138
2000	2.062	34.640	27.678	2.414
2500	1.668	34.662	27.727	2.657
3000	1.439	34.673	27.752	2.888
3500	1.226	34.684	27.777	3.110
4000	1.081	34.694	27.794	3.327
4003	1.081	34.694	27.794	3.328



CAST GP3-99-KA-0021 LAT 07 59.1N LONG 155 00.9W CAST GP3-99-KA-0041 LAT 06 00.8N LONG 155 02.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.227	34.179	27.226	22.029	2.	27.536	34.423	27.535	22.113
10.	27.233	34.179	27.231	22.027	9.	27.539	34.422	27.537	22.112
16.	27.231	34.178	27.228	22.028	19.	27.533	34.422	27.529	22.115
25.	26.766	34.272	26.760	22.257	35.	27.392	34.456	27.384	22.189
40.	24.636	34.490	24.628	23.070	55.	27.263	34.496	27.251	22.261
70.	16.932	34.419	16.920	25.081	79.	22.550	34.624	22.535	23.773
109.	12.143	34.671	12.129	26.308	120.	12.710	34.642	12.694	26.177
150.	11.417	34.731	11.399	26.495	402.	8.543	34.629	8.501	26.907
401.	8.753	34.627	8.710	26.874	600.	7.151	34.581	7.093	27.077
600.	6.426	34.536	6.372	27.140	800.	5.359	34.551	5.292	27.286
799.	5.150	34.549	5.083	27.309	1002.	4.565	34.563	4.485	27.387
1001.	4.295	34.576	4.217	27.421					

CAST GP3-99-KA-0031 LAT 07 00.3N LONG 155 01.1W CAST GP3-99-KA-0051 LAT 05 02.3N LONG 154 54.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.529	34.381	27.529	22.084	1000.	4.466	34.563	4.386	27.398
10.	27.533	34.380	27.530	22.084	1500.	3.092	34.604	2.983	27.571
20.	27.496	34.380	27.492	22.096	2000.	2.273	34.641	2.132	27.674
35.	27.272	34.436	27.264	22.218	2251.	1.993	34.657	1.835	27.711
56.	26.807	34.622	26.795	22.507	2500.	1.882	34.665	1.704	27.727
80.	19.299	34.502	19.284	24.550	2750.	1.796	34.670	1.596	27.739
120.	11.647	34.657	11.632	26.392	3001.	1.741	34.674	1.519	27.747
200.	10.087	34.675	10.064	26.689	3252.	1.617	34.681	1.373	27.763
398.	8.538	34.627	8.496	26.907	3500.	1.547	34.685	1.279	27.773
601.	7.031	34.572	6.973	27.087	3751.	1.454	34.691	1.163	27.786
800.	5.570	34.553	5.501	27.261	4010.	1.402	34.695	1.085	27.795
1001.	4.528	34.562	4.448	27.390	4004.	1.404	34.695	1.087	27.794

CAST GP3-99-KA-0061 LAT 04 01.7N LONG 154 57.8W CAST GP3-99-KA-0081 LAT 01 59.1N LONG 154 56.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
15.	27.758	34.573	27.755	22.157	3.	27.004	35.147	27.003	22.830
50.	27.604	34.572	27.593	22.234	8.	26.997	35.147	26.995	22.833
					16.	27.003	35.147	26.999	22.830
					24.	27.003	35.147	26.998	22.831
					49.	26.951	35.145	26.939	22.847
					80.	25.677	35.095	25.659	23.212
					120.	21.330	34.850	21.307	24.291
					201.	11.503	34.771	11.478	26.509
					401.	8.915	34.659	8.871	26.872
					601.	7.150	34.582	7.092	27.076
					800.	5.909	34.551	5.838	27.218
					996.	4.828	34.555	4.747	27.350

CAST GP3-99-KA-0071 LAT 03 00.1N LONG 154 57.1W CAST GP3-99-KA-0091 LAT 01 00.1N LONG 154 57.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.158	35.105	27.158	22.747	3.	26.745	35.211	26.745	22.961
10.	27.167	35.102	27.164	22.745	11.	26.752	35.212	26.749	22.959
14.	27.175	35.103	27.171	22.742	15.	26.751	35.212	26.748	22.960
24.	27.178	35.103	27.172	22.742	25.	26.751	35.210	26.746	22.959
50.	27.174	35.104	27.163	22.746	50.	26.658	35.209	26.646	22.988
82.	27.123	35.134	27.104	22.787	80.	26.477	35.181	26.459	23.027
119.	25.737	34.941	25.710	23.082	121.	22.072	34.888	22.048	24.114
400.	9.170	34.659	9.126	26.830	600.	6.925	34.569	6.868	27.097
601.	7.092	34.573	7.034	27.077	800.	5.713	34.550	5.643	27.241
799.	5.720	34.547	5.650	27.240	1000.	4.809	34.553	4.727	27.351
1003.	4.782	34.556	4.700	27.356					

CAST GP3-99-KA-0101 LAT 00 29.9N LONG 154 58.5W CAST GP3-99-KA-0121 LAT 00 29.7S LONG 154 58.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.486	35.247	26.486	23.070	3.	26.624	35.318	26.623	23.081
11.	26.485	35.245	26.483	23.068	10.	26.615	35.316	26.613	23.083
15.	26.489	35.247	26.485	23.068	35.	26.604	35.317	26.596	23.087
25.	26.401	35.235	26.395	23.087	59.	26.513	35.311	26.500	23.114
50.	26.370	35.234	26.359	23.096	75.	26.430	35.307	26.413	23.138
80.	26.037	35.192	26.019	23.173	100.	25.249	35.434	25.227	23.596
120.	23.320	35.117	23.296	23.932	139.	21.971	35.616	21.943	24.694
200.	13.638	34.932	13.609	26.212	200.	12.907	34.889	12.879	26.336
399.	9.122	34.674	9.078	26.850	400.	9.506	34.701	9.461	26.808
600.	7.350	34.590	7.291	27.054	602.	7.421	34.591	7.362	27.047
799.	5.732	34.551	5.662	27.239	800.	5.788	34.550	5.718	27.234
1003.	4.687	34.554	4.606	27.366	1004.	4.848	34.548	4.765	27.345

CAST GP3-99-KA-0111 LAT 00 04.6N LONG 154 58.9W CAST GP3-99-KA-0131 LAT 00 59.5S LONG 154 58.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	26.416	35.278	26.415	23.114	3.	26.763	35.337	26.762	23.050
9.	26.425	35.279	26.423	23.111	10.	26.770	35.334	26.767	23.047
26.	26.426	35.278	26.420	23.111	24.	26.771	35.335	26.766	23.047
60.	26.335	35.273	26.322	23.137	61.	26.770	35.338	26.757	23.052
79.	26.098	35.259	26.080	23.204	76.	26.753	35.341	26.736	23.061
100.	24.973	35.243	24.951	23.538	101.	26.569	35.355	26.547	23.132
138.	20.759	35.281	20.733	24.783	140.	24.971	35.565	24.941	23.802
199.	12.818	34.856	12.791	26.322	200.	15.267	35.210	15.237	26.077
400.	9.457	34.696	9.411	26.811	400.	8.725	34.653	8.682	26.897
600.	7.518	34.601	7.458	27.039	601.	7.225	34.577	7.166	27.062
801.	5.665	34.551	5.595	27.248	800.	5.807	34.551	5.736	27.230
1003.	4.495	34.559	4.415	27.389	1001.	4.751	34.549	4.669	27.354

CAST GP3-99-KA-0181 LAT 06 00.1S LONG 154 99.6W										CAST GP3-99-KA-0241 LAT 05 00.3S LONG 170 00.2W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
9.	27.466	35.421	27.463	22.890	3.	28.457	35.456	28.456	22.590										
29.	27.475	35.420	27.468	22.888	9.	28.457	35.456	28.455	22.591										
48.	27.483	35.421	27.472	22.887	20.	28.464	35.457	28.459	22.589										
70.	27.489	35.422	27.472	22.887	30.	28.465	35.457	28.458	22.590										
89.	27.502	35.435	27.482	22.892	59.	28.469	35.457	28.455	22.591										
119.	25.321	35.679	25.295	23.779	101.	27.242	35.680	27.219	23.173										
139.	23.681	35.756	23.652	24.353	140.	21.411	35.834	21.384	25.004										
200.	14.465	35.093	14.436	26.163	204.	14.060	35.117	14.031	26.261										
398.	9.502	34.713	9.457	26.819	401.	9.001	34.676	8.957	26.872										
600.	7.201	34.583	7.142	27.072	599.	7.190	34.587	7.131	27.074										
800.	5.648	34.536	5.579	27.241	800.	5.471	34.530	5.402	27.255										
1001.	4.615	34.540	4.535	27.363	1000.	4.503	34.542	4.423	27.376										

CAST GP3-99-KA-0191 LAT 08 15.4S LONG 155 01.2W										CAST GP3-99-KA-0251 LAT 03 59.6S LONG 170 00.1W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	27.601	35.408	27.601	22.834	4.	28.147	35.432	28.147	22.675										
9.	27.605	35.409	27.603	22.833	20.	28.160	35.433	28.156	22.671										
26.	27.614	35.407	27.608	22.832	39.	28.163	35.432	28.154	22.672										
40.	27.593	35.389	27.584	22.838	60.	28.150	35.431	28.136	22.677										
91.	27.276	35.388	27.255	22.927	79.	28.132	35.432	28.113	22.684										
139.	24.221	36.007	24.192	24.384	125.	23.294	35.741	23.268	24.420										
201.	18.844	35.539	18.808	25.475	151.	18.259	35.486	18.233	25.582										
399.	9.422	34.700	9.377	26.823	202.	12.795	34.998	12.768	26.432										
601.	7.246	34.575	7.187	27.057	401.	9.114	34.681	9.069	26.858										
801.	5.451	34.529	5.383	27.257	600.	6.904	34.579	6.847	27.109										
1002.	4.386	34.538	4.307	27.386	798.	5.696	34.544	5.627	27.240										
					1000.	4.530	34.543	4.451	27.375										

CAST GP3-99-KA-0261 LAT 02 59.8S LONG 170 01.5W
 CAST GP3-99-KA-0281 LAT 00 59.8S LONG 170 01.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.919	35.416	27.918	22.736	4.	27.437	35.313	27.436	22.816
19.	27.923	35.416	27.919	22.736	9.	27.414	35.314	27.412	22.824
39.	27.929	35.419	27.919	22.735	29.	27.418	35.313	27.412	22.823
59.	27.931	35.416	27.917	22.736	49.	27.409	35.318	27.398	22.829
80.	27.931	35.417	27.912	22.738	61.	27.410	35.317	27.396	22.829
125.	25.066	35.671	25.039	23.829	125.	23.674	35.768	23.649	24.326
150.	17.474	35.424	17.449	25.733	149.	20.389	35.477	20.361	25.021
200.	12.932	35.004	12.905	26.410	201.	12.894	34.939	12.867	26.362
399.	9.144	34.678	9.100	26.850	402.	8.834	34.658	8.791	26.881
602.	6.584	34.570	6.529	27.142	600.	6.904	34.569	6.847	27.100
801.	5.550	34.542	5.481	27.255	801.	5.765	34.552	5.694	27.236
1001.	4.616	34.544	4.536	27.365	1002.	4.641	34.554	4.560	27.370

CAST GP3-99-KA-0271 LAT 02 09.5S LONG 170 02.7W
 CAST GP3-99-KA-0291 LAT 00 00.2S LONG 169 47.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.828	35.380	27.827	22.739	1001.	4.616	34.552	4.535	27.372
10.	27.814	35.378	27.812	22.743	1501.	3.177	34.597	3.067	27.557
19.	27.802	35.379	27.798	22.747	2000.	2.285	34.637	2.144	27.669
30.	27.757	35.379	27.750	22.762	2249.	2.038	34.652	1.880	27.702
60.	27.741	35.377	27.727	22.770	2500.	1.884	34.659	1.706	27.721
100.	27.605	35.387	27.581	22.823	2749.	1.742	34.668	1.544	27.739
151.	18.255	35.517	18.229	25.594	2998.	1.632	34.672	1.412	27.754
199.	11.623	34.877	11.597	26.568	3249.	1.581	34.676	1.338	27.762
399.	9.557	34.696	9.512	26.795	3499.	1.525	34.680	1.259	27.771
600.	6.678	34.558	6.622	27.123	3749.	1.478	34.686	1.187	27.780
802.	5.735	34.543	5.665	27.234	4006.	1.400	34.692	1.084	27.792
1001.	4.808	34.550	4.727	27.349	4008.	1.400	34.692	1.083	27.792

CAST GP3-99-KA-0301 LAT 00 15.6N LONG 169 45.7W										CAST GP3-99-KA-0321 LAT 01 00.1N LONG 170 01.6W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
1001.	4.747	34.550	4.665	27.357	3.	26.933	35.256	26.933	22.934										
1497.	3.157	34.597	3.047	27.560	10.	26.938	35.255	26.936	22.933										
1998.	2.296	34.635	2.156	27.667	20.	26.917	35.251	26.913	22.938										
2247.	2.013	34.652	1.855	27.705	31.	26.915	35.249	26.908	22.939										
2501.	1.883	34.658	1.705	27.721	50.	26.797	35.236	26.786	22.967										
2749.	1.738	34.667	1.540	27.740	75.	26.347	35.160	26.330	23.051										
3000.	1.628	34.672	1.408	27.754	121.	21.379	34.801	21.356	24.225										
3249.	1.575	34.676	1.332	27.763	199.	12.772	34.826	12.745	26.319										
3501.	1.529	34.682	1.262	27.771	399.	9.309	34.677	9.265	26.824										
3747.	1.479	34.681	1.187	27.780	600.	6.718	34.568	6.662	27.126										
4007.	1.400	34.692	1.083	27.792	800.	5.630	34.549	5.561	27.251										
4005.	1.400	34.691	1.084	27.792	1003.	4.634	34.552	4.553	27.372										

CAST GP3-99-KA-0311 LAT 00 29.7N LONG 170 01.4W										CAST GP3-99-KA-0331 LAT 01 30.6N LONG 170 02.1W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	27.101	35.297	27.100	22.910	3.	26.878	35.194	26.878	22.905										
20.	27.098	35.295	27.093	22.911	20.	26.887	35.194	26.882	22.903										
40.	26.931	35.286	26.922	22.960	39.	26.851	35.193	26.842	22.916										
59.	26.740	35.272	26.726	23.012	60.	26.839	35.192	26.826	22.921										
89.	26.020	35.264	26.000	23.234	90.	26.796	35.187	26.776	22.930										
141.	16.519	35.181	16.496	25.764	140.	16.785	34.808	16.762	25.419										
169.	14.782	35.005	14.757	26.028	170.	13.605	34.730	13.581	26.068										
201.	13.212	34.878	13.185	26.262	201.	12.302	34.789	12.276	26.374										
400.	9.160	34.667	9.116	26.840	402.	9.410	34.684	9.364	26.813										
600.	7.062	34.576	7.004	27.084	596.	6.874	34.573	6.817	27.108										
800.	5.710	34.550	5.640	27.243	800.	5.600	34.548	5.531	27.255										
1002.	4.686	34.551	4.604	27.365	995.	4.728	34.549	4.647	27.359										

CAST GP3-99-KA-0341 LAT 01 59.2N LONG 170 02.1W CAST GP3-99-KA-0361 LAT 04 00.0N LONG 169 58.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.182	35.237	27.182	22.840	2.	28.136	34.897	28.135	22.276
20.	27.183	35.236	27.178	22.841	10.	28.137	34.895	28.134	22.275
40.	27.169	35.236	27.159	22.846	30.	28.139	34.894	28.131	22.275
60.	27.181	35.236	27.168	22.844	50.	28.150	34.897	28.139	22.276
90.	27.140	35.236	27.120	22.857	91.	27.761	34.977	27.740	22.463
140.	18.939	34.735	18.914	24.841	140.	21.768	34.862	21.740	24.173
170.	12.511	34.560	12.488	26.155	170.	12.192	34.563	12.170	26.217
201.	11.483	34.726	11.458	26.489	200.	10.882	34.600	10.857	26.487
401.	9.294	34.669	9.249	26.820	400.	8.503	34.621	8.460	26.907
600.	6.694	34.564	6.638	27.125	599.	6.764	34.567	6.707	27.118
801.	5.558	34.544	5.489	27.256	801.	5.482	34.546	5.413	27.267
1005.	4.653	34.553	4.572	27.369	1003.	4.722	34.552	4.641	27.362

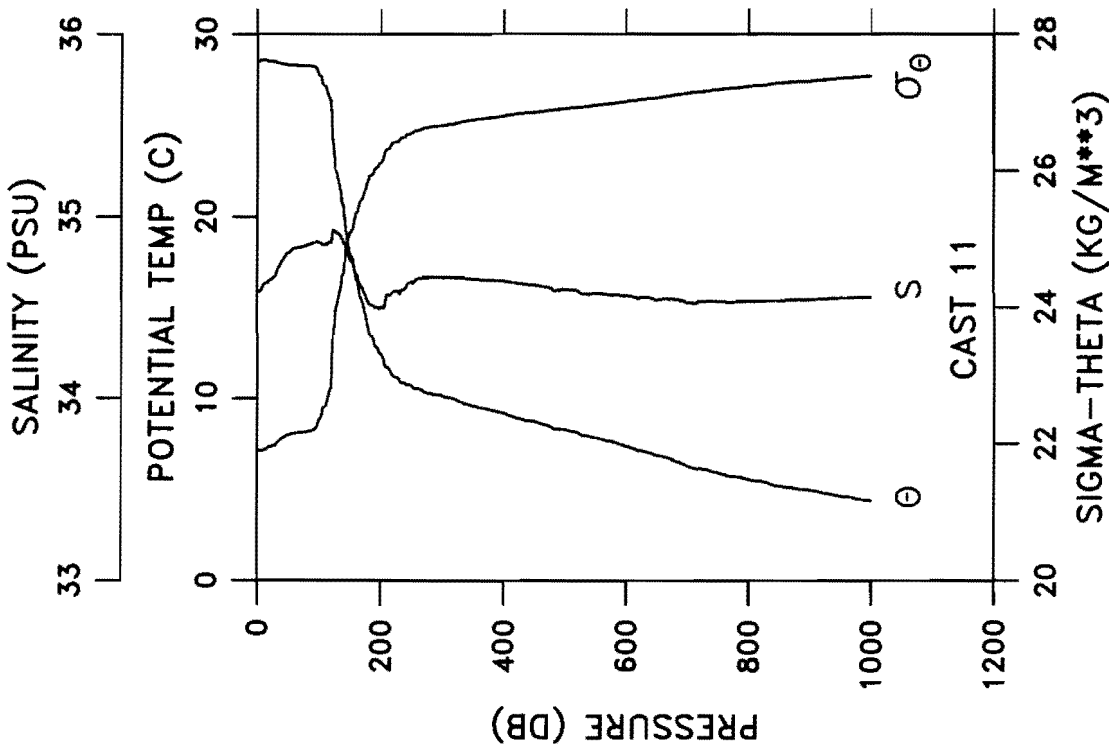
CAST GP3-99-KA-0351 LAT 02 59.9N LONG 170 01.2W CAST GP3-99-KA-0371 LAT 04 56.8N LONG 169 57.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.785	35.069	27.784	22.518	4.	28.130	34.850	28.129	22.243
11.	27.781	35.070	27.778	22.521	10.	28.129	34.849	28.127	22.242
31.	27.763	35.102	27.755	22.545	20.	28.141	34.853	28.136	22.241
50.	27.642	35.145	27.631	22.626	29.	28.148	34.856	28.141	22.242
91.	27.578	35.195	27.557	22.685	50.	28.152	34.857	28.140	22.243
140.	16.048	34.653	16.026	25.460	89.	28.118	34.864	28.097	22.264
170.	11.281	34.651	11.260	26.450	141.	19.819	34.801	19.793	24.661
202.	10.743	34.726	10.718	26.614	200.	11.933	34.639	11.908	26.327
402.	9.235	34.663	9.191	26.825	400.	8.837	34.634	8.793	26.865
601.	6.815	34.568	6.759	27.112	599.	7.089	34.576	7.032	27.081
801.	5.541	34.542	5.472	27.257	800.	5.468	34.550	5.399	27.271
1003.	4.734	34.551	4.653	27.359	1001.	4.536	34.559	4.456	27.386



GP4-99-KA
August 5–August 28, 1999
CTD and Hydrographic Data Summary

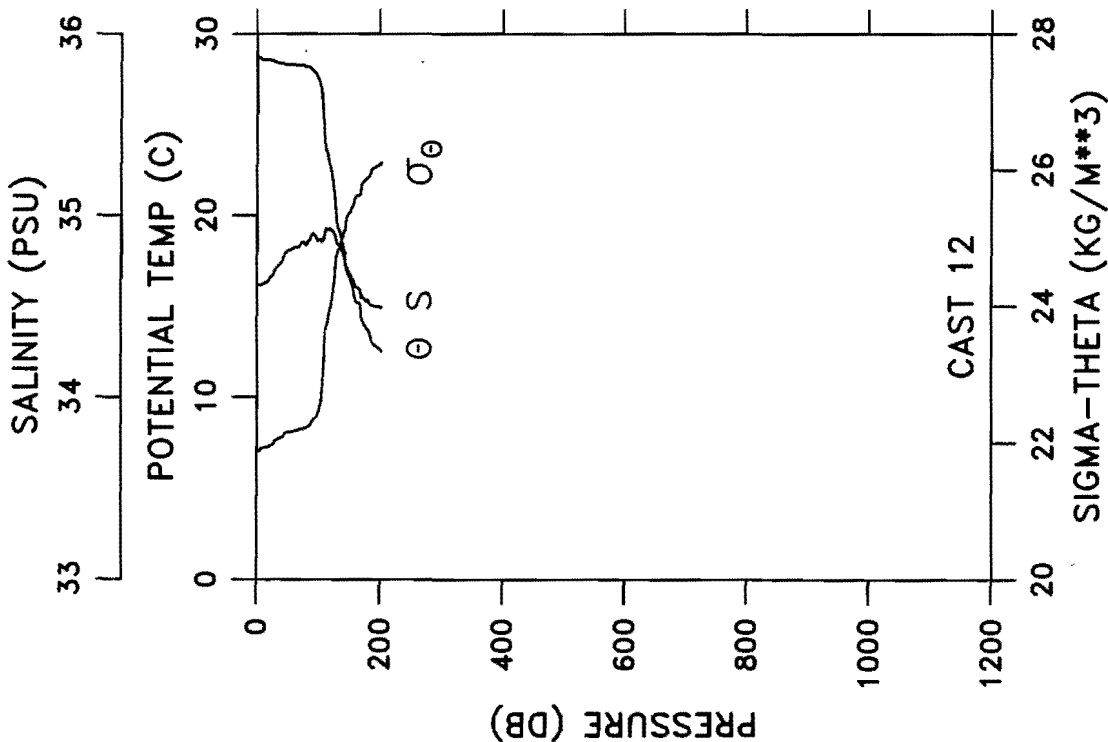
CAST GP4-99-KA-0011 DATE 05 AUG 99 TIME 1801 GMT
 LAT 08 02.7N LONG 165 02.0E WEATHER 6 SEA STATE 3
 BAROMETER 09 WIND DIR 122 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 24.9 WET 24.4 DEPTH 5211 M



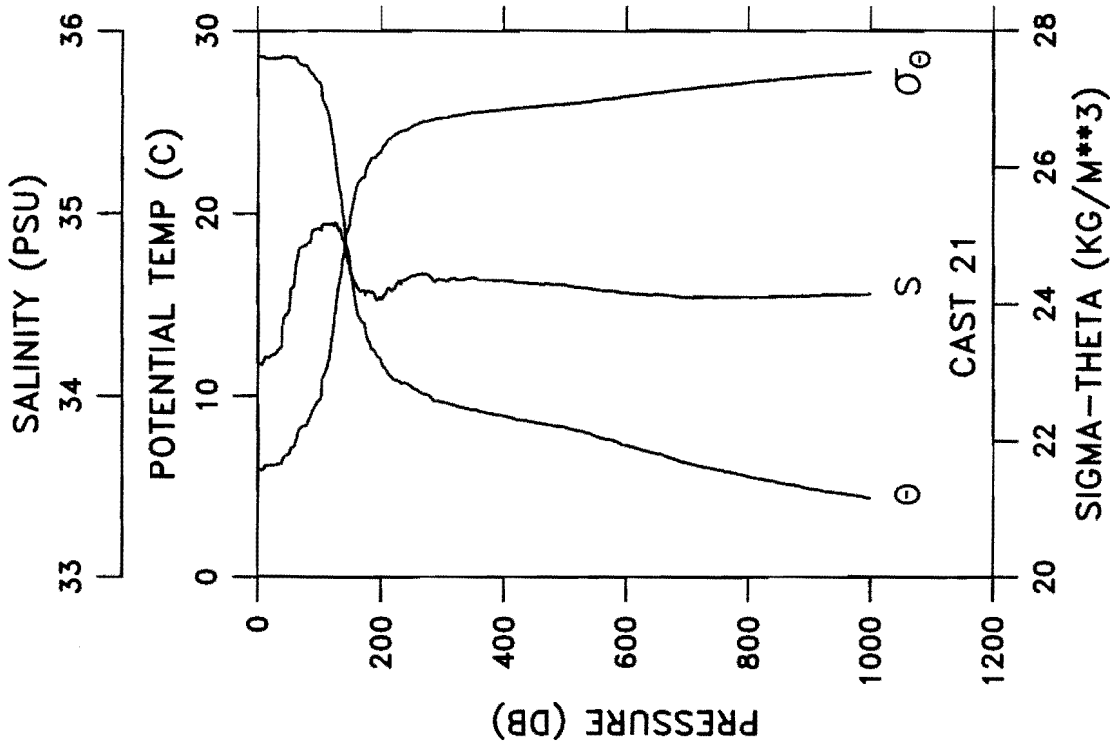
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.551	34.589	21.907	0.000
10	28.616	34.630	21.916	0.059
20	28.526	34.653	21.963	0.118
30	28.495	34.682	21.996	0.176
40	28.394	34.760	22.088	0.234
50	28.342	34.802	22.136	0.291
60	28.319	34.826	22.161	0.348
70	28.306	34.833	22.171	0.405
80	28.297	34.842	22.181	0.462
90	28.257	34.857	22.205	0.519
100	27.793	34.859	22.358	0.575
110	27.172	34.848	22.550	0.629
120	26.020	34.858	22.922	0.681
130	22.180	34.909	24.099	0.723
140	20.427	34.851	24.537	0.760
150	17.962	34.765	25.103	0.791
160	16.530	34.683	25.383	0.819
170	15.321	34.608	25.600	0.844
180	13.802	34.529	25.865	0.867
190	12.888	34.499	26.028	0.888
200	12.465	34.504	26.115	0.908
250	10.684	34.643	26.555	0.992
300	10.155	34.667	26.665	1.065
350	9.586	34.656	26.753	1.135
400	9.192	34.648	26.812	1.202
450	8.747	34.624	26.864	1.266
500	8.291	34.601	26.917	1.328
550	7.846	34.579	26.966	1.388
600	7.362	34.564	27.025	1.446
650	6.845	34.539	27.077	1.502
700	6.271	34.528	27.145	1.554
750	5.917	34.531	27.192	1.604
800	5.558	34.535	27.240	1.651
900	4.980	34.545	27.317	1.740
1000	4.395	34.556	27.391	1.822
1500	2.921	34.600	27.573	2.163
2000	2.097	34.636	27.672	2.443
2500	1.681	34.659	27.723	2.691
3000	1.445	34.671	27.750	2.924
3500	1.253	34.681	27.772	3.150
4000	1.109	34.690	27.789	3.370
4006	1.106	34.690	27.789	3.372

CAST GP4-99-KA-0012 DATE 06 AUG 99 TIME 0337 GMT
 LAT 08 00.2N LONG 165 03.7E WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 118 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.8 WET 25.5 DEPTH 5210 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.709	34.619	21.877	0.000
10	28.561	34.623	21.929	0.059
20	28.558	34.647	21.948	0.118
30	28.426	34.701	22.032	0.176
40	28.357	34.741	22.085	0.234
50	28.286	34.806	22.157	0.291
60	28.272	34.821	22.173	0.348
70	28.237	34.839	22.198	0.405
80	28.151	34.836	22.224	0.461
90	27.991	34.901	22.325	0.517
100	27.496	34.863	22.458	0.572
110	24.181	34.903	23.516	0.623
120	22.523	34.915	24.007	0.664
130	19.427	34.840	24.791	0.700
140	18.109	34.780	25.078	0.731
150	16.595	34.685	25.369	0.759
160	15.293	34.605	25.604	0.784
170	14.264	34.559	25.791	0.808
180	13.719	34.532	25.885	0.830
190	12.878	34.498	26.030	0.851
200	12.619	34.494	26.077	0.871
202	12.467	34.493	26.106	0.875

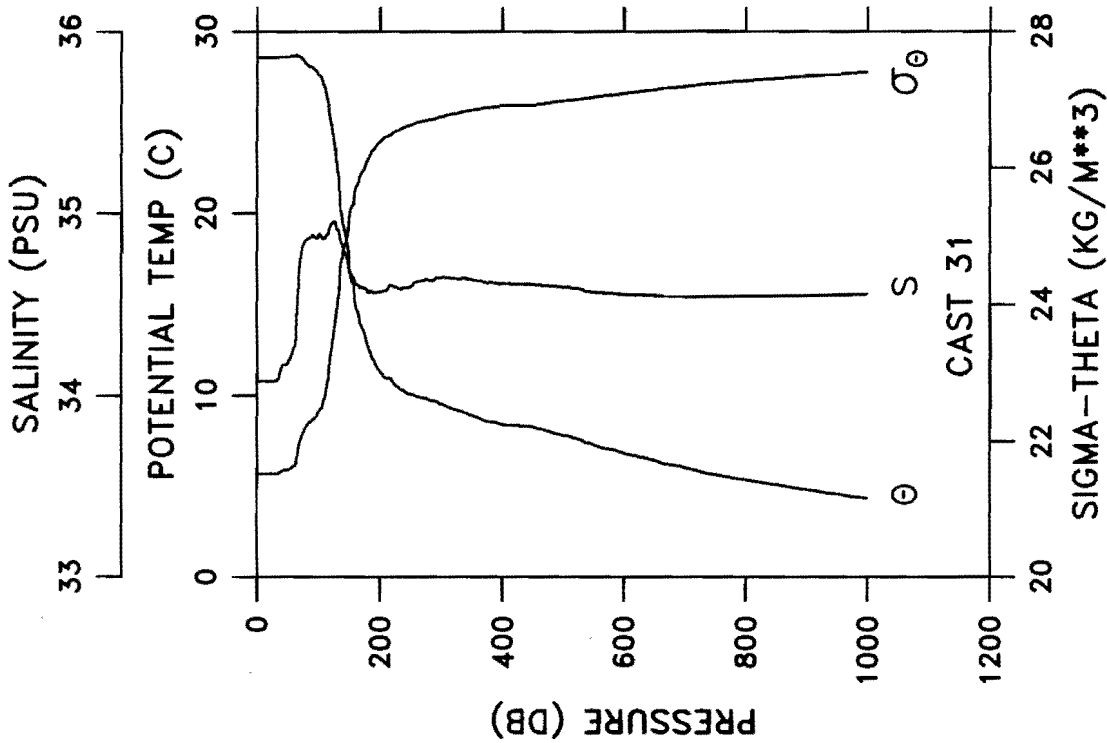


CAST GP4-99-KA-0021 DATE 06 AUG 99 TIME 1029 GMT
 LAT 07 00.0N LONG 165 01.7E WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 057 T SPD 04 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.3 WET 25.0 DEPTH 5151 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.594	34.179	21.584	0.000
10	28.591	34.196	21.598	0.062
20	28.484	34.215	21.648	0.124
30	28.495	34.235	21.660	0.185
40	28.616	34.380	21.729	0.247
50	28.565	34.458	21.804	0.307
60	28.528	34.646	21.957	0.367
70	28.166	34.812	22.201	0.424
80	28.042	34.831	22.256	0.480
90	27.564	34.909	22.470	0.535
100	27.142	34.915	22.611	0.588
110	25.822	34.939	23.045	0.639
120	24.274	34.945	23.520	0.686
130	21.726	34.913	24.230	0.727
140	19.516	34.844	24.771	0.762
150	16.930	34.670	25.278	0.791
160	14.796	34.602	25.711	0.816
170	14.038	34.577	25.853	0.839
180	12.970	34.573	26.069	0.860
190	12.450	34.546	26.150	0.879
200	11.884	34.529	26.245	0.898
250	10.490	34.657	26.600	0.978
300	9.664	34.634	26.723	1.049
350	9.250	34.646	26.800	1.116
400	8.901	34.633	26.847	1.181
450	8.558	34.614	26.886	1.244
500	8.275	34.608	26.924	1.305
550	7.762	34.580	26.980	1.365
600	7.275	34.562	27.035	1.422
650	6.817	34.556	27.094	1.477
700	6.305	34.539	27.149	1.529
750	5.933	34.539	27.197	1.578
800	5.556	34.541	27.245	1.626
900	4.904	34.547	27.328	1.714
1000	4.378	34.557	27.394	1.796
1002	4.360	34.557	27.396	1.797

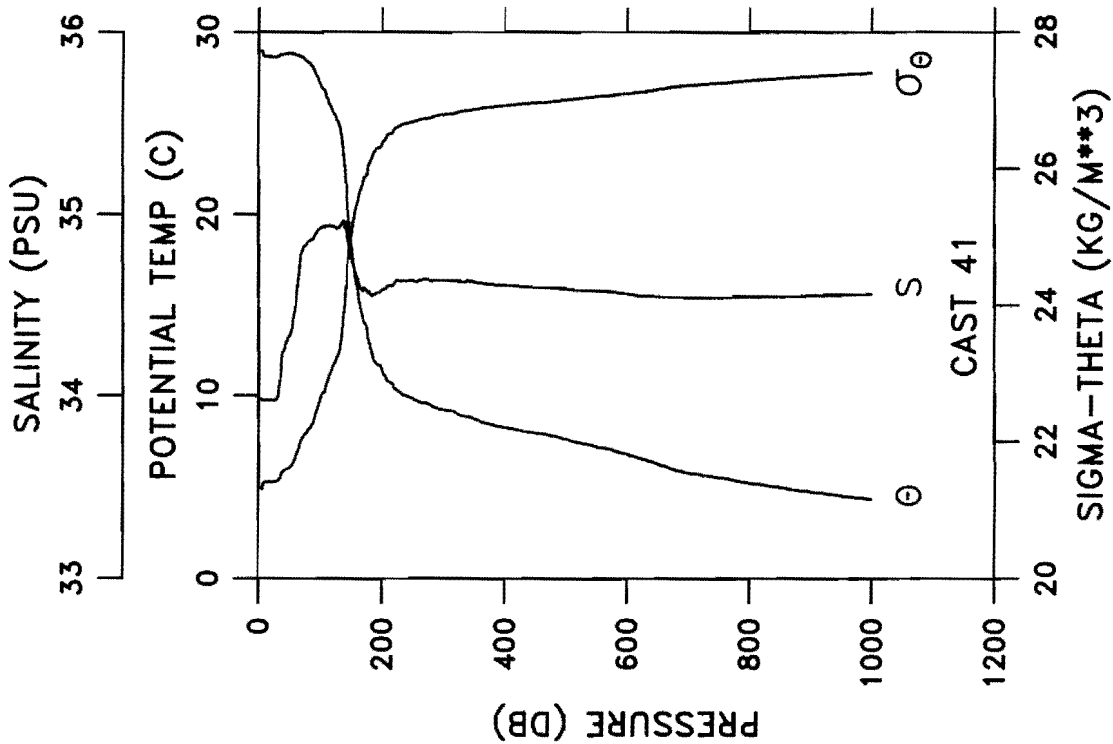
CAST GP4-99-KA-0031 DATE 06 AUG 99 TIME 1654 GMT
 LAT 05 59.9N LONG 165 00.6E WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 052 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.1 WET 27.0 DEPTH 4999 M



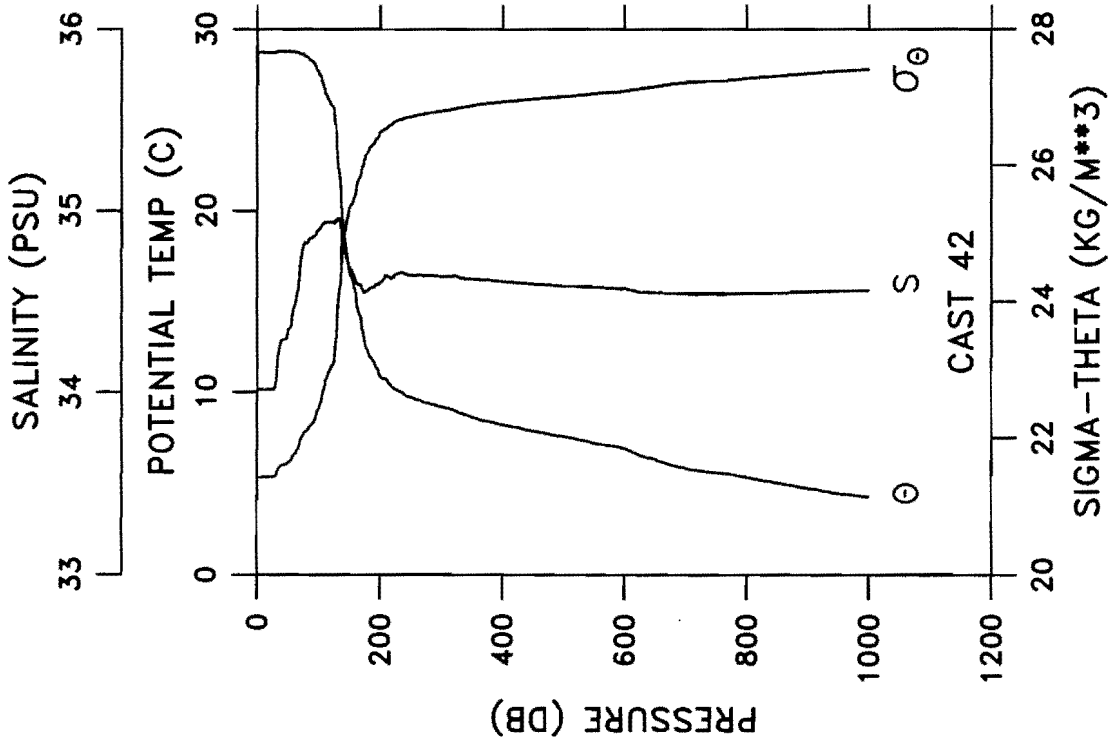
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.568	34.081	21.520	0.000
10	28.568	34.082	21.520	0.063
20	28.564	34.081	21.521	0.126
30	28.566	34.083	21.522	0.188
40	28.615	34.156	21.560	0.251
50	28.617	34.181	21.578	0.314
60	28.640	34.265	21.634	0.376
70	28.574	34.739	22.012	0.436
80	28.193	34.853	22.223	0.493
90	27.977	34.879	22.313	0.549
100	27.571	34.878	22.445	0.604
110	26.954	34.863	22.631	0.658
120	24.979	34.938	23.302	0.708
130	22.714	34.910	23.949	0.751
140	19.342	34.808	24.788	0.787
150	17.031	34.676	25.259	0.817
160	14.968	34.611	25.680	0.843
170	13.760	34.596	25.926	0.865
180	12.744	34.568	26.110	0.885
190	11.927	34.563	26.264	0.904
200	11.317	34.571	26.384	0.921
250	10.096	34.600	26.623	0.999
300	9.570	34.648	26.750	1.069
350	8.949	34.637	26.843	1.135
400	8.446	34.616	26.905	1.197
450	8.328	34.612	26.919	1.257
500	7.835	34.596	26.981	1.317
550	7.330	34.569	27.033	1.373
600	6.855	34.556	27.089	1.428
650	6.453	34.550	27.139	1.480
700	6.047	34.545	27.187	1.529
750	5.663	34.542	27.233	1.577
800	5.383	34.544	27.269	1.622
900	4.827	34.550	27.339	1.709
1000	4.357	34.559	27.397	1.789
1002	4.340	34.559	27.399	1.791

CAST GP4-99-KA-0041 DATE 07 AUG 99 TIME 0452 GMT
 LAT 05 03.3N LONG 164 57.7E WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 055 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.9 WET 25.6 DEPTH 4784 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.955	33.981	21.317	0.000
10	28.674	33.976	21.406	0.064
20	28.649	33.977	21.414	0.128
30	28.643	33.986	21.424	0.192
40	28.788	34.241	21.568	0.255
50	28.844	34.331	21.616	0.318
60	28.766	34.498	21.767	0.379
70	28.632	34.791	22.031	0.438
80	28.337	34.848	22.172	0.496
90	27.939	34.873	22.321	0.552
100	27.131	34.919	22.617	0.606
110	26.459	34.937	22.843	0.658
120	25.651	34.931	23.092	0.707
130	24.876	34.921	23.291	0.755
140	22.533	34.920	24.008	0.798
150	18.440	34.771	24.988	0.832
160	15.999	34.654	25.483	0.860
170	14.183	34.590	25.833	0.883
180	12.894	34.572	26.083	0.904
190	11.812	34.564	26.287	0.923
200	11.490	34.582	26.360	0.940
250	9.870	34.638	26.692	1.015
300	9.252	34.639	26.795	1.083
350	8.745	34.628	26.868	1.146
400	8.284	34.612	26.926	1.207
450	7.974	34.601	26.964	1.266
500	7.633	34.589	27.005	1.324
550	7.205	34.579	27.059	1.380
600	6.836	34.563	27.097	1.433
650	6.262	34.548	27.162	1.484
700	5.790	34.541	27.216	1.533
750	5.535	34.542	27.248	1.579
800	5.234	34.546	27.288	1.624
900	4.746	34.551	27.349	1.709
1000	4.346	34.560	27.400	1.789
1500	2.855	34.605	27.583	2.130
2000	2.083	34.639	27.676	2.409
2500	1.630	34.663	27.730	2.650
3000	1.415	34.672	27.753	2.879
3500	1.262	34.681	27.771	3.103
4000	1.158	34.688	27.784	3.326
4007	1.157	34.687	27.784	3.329



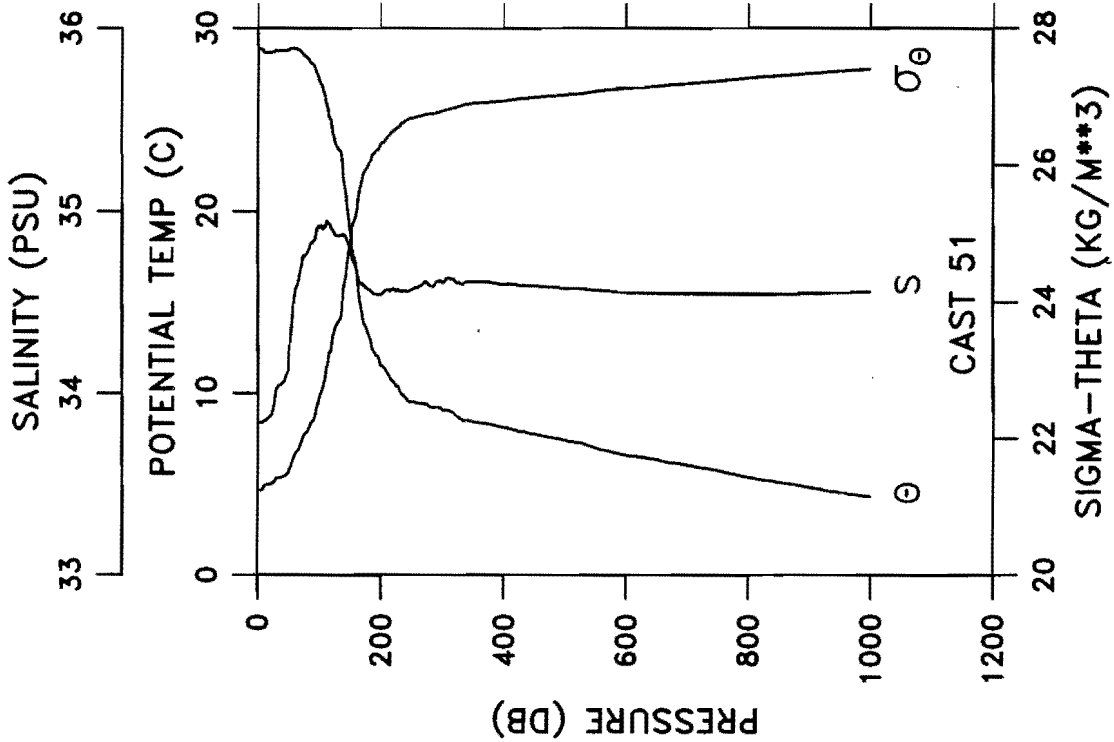
CAST GP4-99-KA-0042 DATE 07 AUG 99 TIME 2253 GMT
 LAT 05 01.8N LONG 165 00.6E WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 058 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 29.0 WET 25.0 DEPTH 4775 M



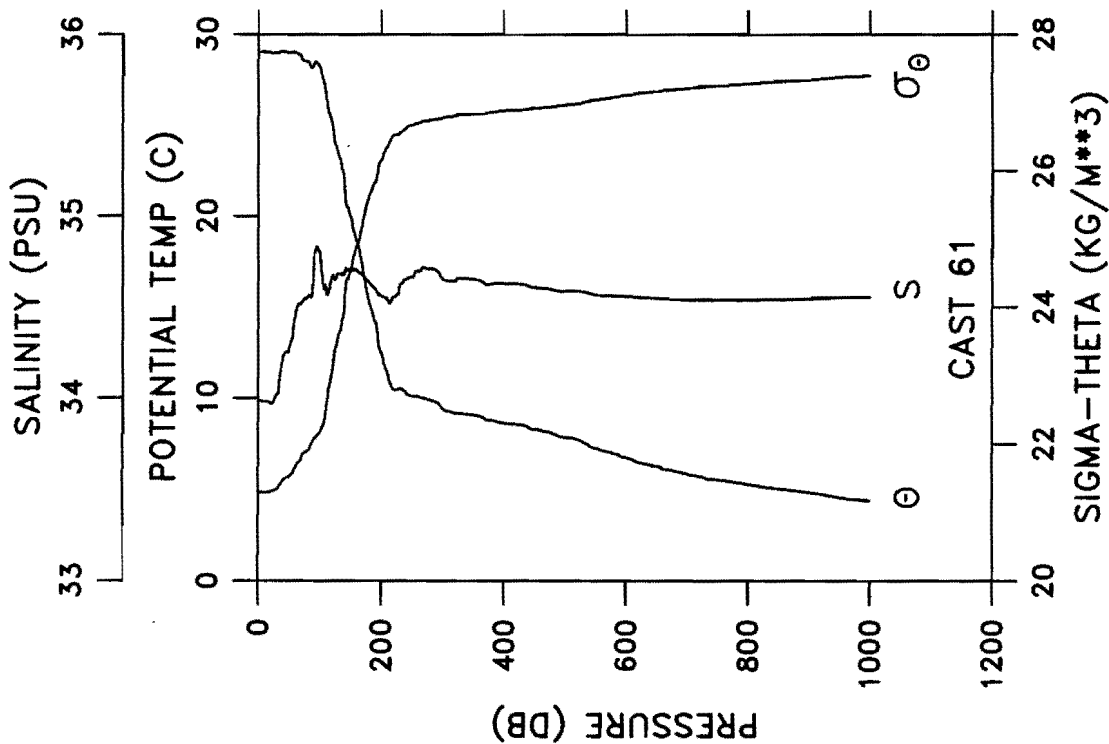
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.730	34.016	21.417	0.000
10	28.717	34.014	21.420	0.064
20	28.712	34.015	21.422	0.127
30	28.725	34.039	21.437	0.191
40	28.788	34.282	21.598	0.254
50	28.781	34.326	21.633	0.316
60	28.758	34.467	21.747	0.377
70	28.642	34.692	21.954	0.438
80	28.486	34.821	22.102	0.496
90	28.246	34.856	22.208	0.553
100	27.674	34.891	22.421	0.608
110	26.694	34.930	22.764	0.661
120	25.872	34.935	23.026	0.711
130	23.573	34.941	23.724	0.758
140	19.088	34.802	24.849	0.795
150	16.611	34.691	25.370	0.824
160	15.548	34.622	25.560	0.850
170	13.626	34.572	25.935	0.872
180	12.256	34.562	26.200	0.892
190	11.696	34.578	26.319	0.910
200	10.897	34.605	26.487	0.926
250	9.749	34.644	26.717	0.989
300	9.225	34.639	26.799	1.066
350	8.648	34.625	26.880	1.129
400	8.235	34.610	26.932	1.190
450	7.879	34.597	26.976	1.248
500	7.596	34.587	27.009	1.305
550	7.210	34.579	27.058	1.361
600	6.904	34.571	27.095	1.415
650	6.322	34.548	27.154	1.466
700	5.830	34.544	27.214	1.514
750	5.587	34.540	27.241	1.561
800	5.316	34.545	27.278	1.606
900	4.728	34.551	27.351	1.692
1000	4.239	34.561	27.412	1.770
1005	4.212	34.562	27.415	1.774

CAST GP4-99-KA-0051 DATE 08 AUG 99 TIME 0710 GMT
 LAT 04 00.3N LONG 165 00.3E WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 055 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.9 WET 25.6 DEPTH 4490 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.868	33.840	21.240	0.000
10	28.710	33.847	21.297	0.065
20	28.681	33.873	21.326	0.130
30	28.784	34.029	21.408	0.194
40	28.777	34.053	21.429	0.258
50	28.820	34.161	21.496	0.322
60	28.901	34.543	21.756	0.384
70	28.721	34.691	21.927	0.444
80	28.406	34.772	22.092	0.502
90	28.041	34.836	22.260	0.559
100	27.158	34.911	22.602	0.613
110	26.097	34.919	22.944	0.665
120	24.654	34.899	23.372	0.712
130	23.408	34.866	23.715	0.755
140	21.504	34.870	24.258	0.796
150	18.897	34.786	24.885	0.831
160	16.891	34.685	25.300	0.859
170	14.249	34.588	25.825	0.884
180	13.179	34.569	26.023	0.905
190	12.186	34.544	26.200	0.924
200	11.535	34.544	26.323	0.942
250	9.538	34.570	26.694	1.019
300	9.078	34.610	26.801	1.087
350	8.429	34.616	26.907	1.149
400	8.127	34.600	26.941	1.209
450	7.736	34.592	26.982	1.267
500	7.403	34.577	27.029	1.323
550	6.969	34.567	27.082	1.377
600	6.561	34.555	27.128	1.429
650	6.317	34.549	27.156	1.479
700	6.017	34.548	27.194	1.529
750	5.718	34.546	27.229	1.576
800	5.340	34.544	27.274	1.622
900	4.809	34.549	27.339	1.708
1000	4.296	34.559	27.404	1.788
1003	4.289	34.559	27.405	1.790



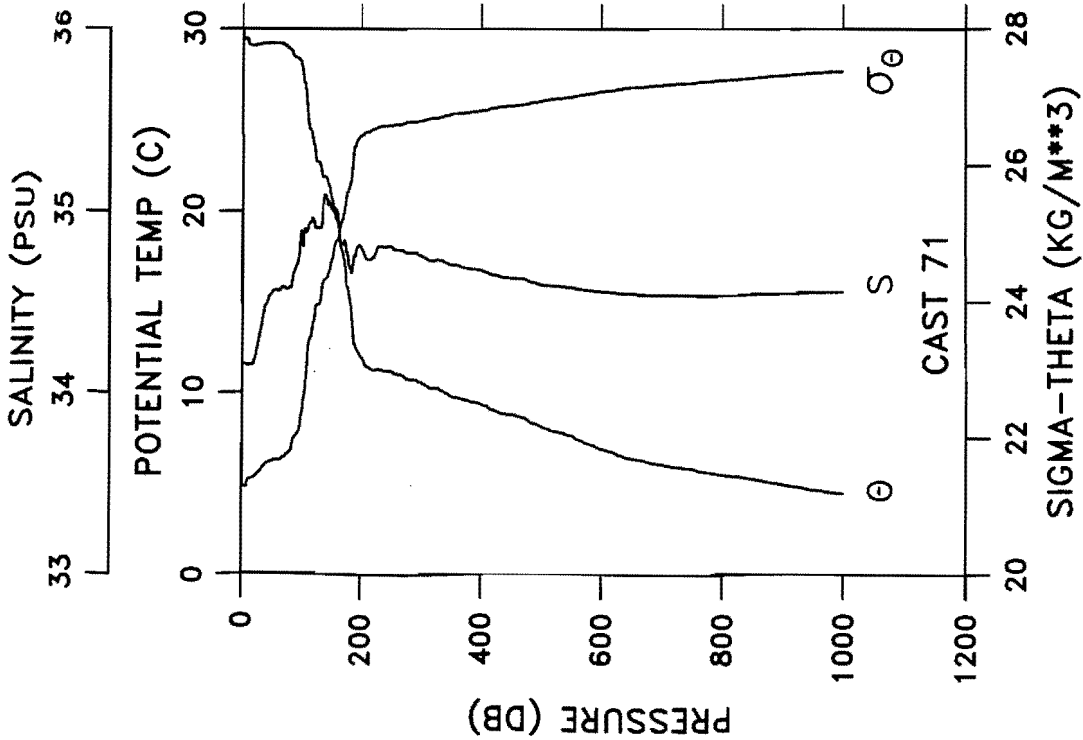
CAST GP4-99-KA-0061 DATE 08 AUG 99 TIME 1342 GMT
 LAT 03 00.1N LONG 165 00.1E WEATHER 5 SEA STATE 3
 BAROMETER 10 WIND DIR 052 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 27.9 WET 25.1 DEPTH 4254 M



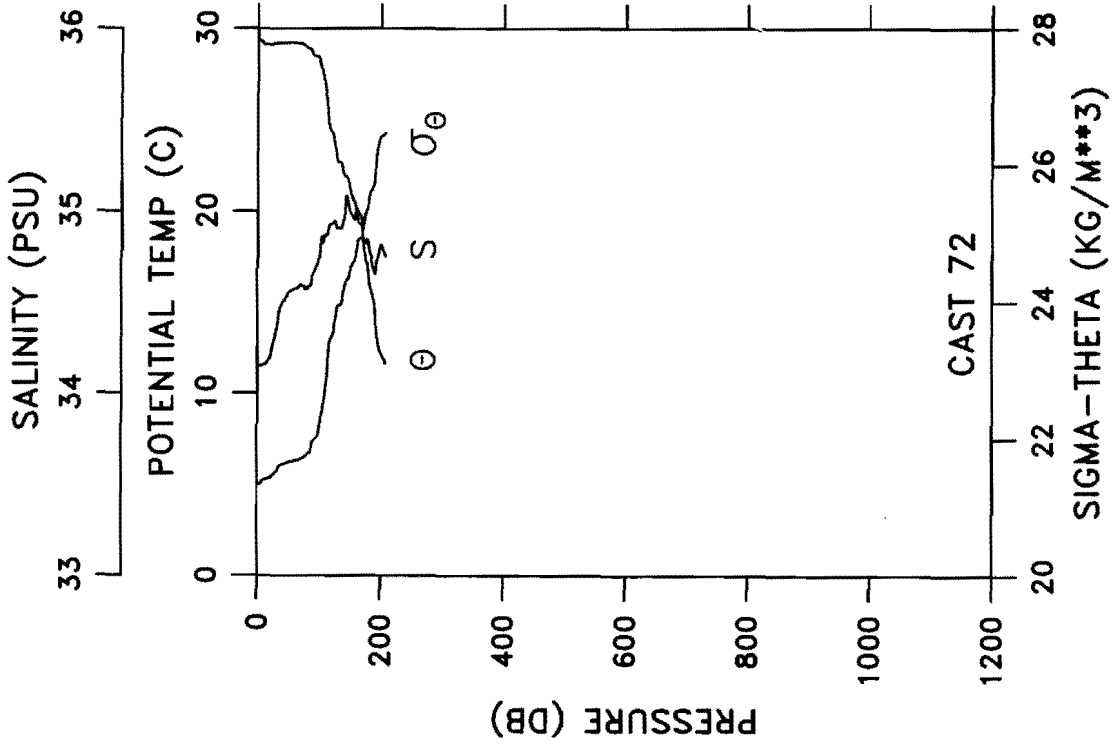
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.042	33.988	21.293	0.000
10	29.034	33.983	21.292	0.065
20	28.990	33.974	21.299	0.130
30	28.986	34.024	21.338	0.195
40	29.077	34.224	21.458	0.259
50	29.000	34.270	21.519	0.322
60	29.008	34.447	21.649	0.384
70	28.723	34.529	21.805	0.445
80	28.522	34.560	21.894	0.505
90	28.303	34.694	22.067	0.564
100	28.234	34.808	22.176	0.621
110	26.703	34.594	22.509	0.677
120	25.088	34.667	23.065	0.728
130	23.437	34.685	23.570	0.774
140	21.815	34.689	24.034	0.816
150	19.961	34.702	24.546	0.852
160	18.578	34.705	24.903	0.884
170	17.011	34.676	25.264	0.914
180	15.287	34.633	25.626	0.939
190	14.203	34.603	25.838	0.962
200	12.482	34.564	26.158	0.983
250	10.131	34.666	26.669	1.062
300	9.431	34.656	26.779	1.130
350	9.097	34.655	26.832	1.194
400	8.656	34.631	26.884	1.258
450	8.299	34.608	26.921	1.319
500	7.881	34.589	26.969	1.379
550	7.263	34.569	27.043	1.436
600	6.745	34.561	27.108	1.490
650	6.259	34.551	27.165	1.540
700	5.830	34.540	27.211	1.588
750	5.502	34.541	27.252	1.635
800	5.253	34.541	27.282	1.680
900	4.830	34.547	27.336	1.766
1000	4.354	34.557	27.396	1.846
1001	4.352	34.556	27.396	1.847

CAST GPA-99-KA-0071 DATE 09 AUG 99 TIME 0447 GMT
 LAT 02 00.6N LONG 164 57.8E WEATHER 2 SEA STATE 3
 BAROMETER 07 WIND DIR 039 T SPD 05 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 28.1 WET 25.5 DEPTH 4171 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.445	34.160	21.287	0.000
10	29.149	34.154	21.382	0.065
20	29.103	34.180	21.417	0.129
30	29.176	34.331	21.505	0.192
40	29.199	34.483	21.612	0.255
50	29.221	34.551	21.655	0.317
60	29.212	34.559	21.664	0.378
70	29.099	34.572	21.712	0.440
80	28.806	34.579	21.815	0.500
90	28.388	34.701	22.045	0.559
100	27.100	34.803	22.539	0.616
110	24.517	34.927	23.434	0.665
120	23.025	34.905	23.856	0.708
130	22.282	34.906	24.069	0.748
140	21.710	35.060	24.346	0.785
150	20.504	35.004	24.632	0.820
160	19.230	34.942	24.919	0.852
170	17.303	34.830	25.312	0.880
180	15.104	34.687	25.709	0.905
190	12.573	34.756	26.289	0.926
200	11.966	34.796	26.437	0.943
250	11.210	34.804	26.585	1.020
300	10.576	34.752	26.659	1.093
350	9.806	34.704	26.754	1.164
400	9.352	34.672	26.804	1.231
450	8.748	34.630	26.868	1.295
500	8.064	34.591	26.943	1.357
550	7.575	34.577	27.004	1.415
600	6.871	34.555	27.086	1.470
650	6.360	34.545	27.147	1.522
700	6.063	34.537	27.179	1.571
750	5.819	34.536	27.209	1.619
800	5.469	34.538	27.253	1.666
900	4.929	34.546	27.323	1.755
1000	4.429	34.556	27.387	1.836
1500	2.872	34.603	27.580	2.181
2000	2.090	34.638	27.674	2.460
2500	1.648	34.661	27.727	2.707
3000	1.431	34.671	27.751	2.938
3500	1.256	34.681	27.772	3.163
4000	1.119	34.690	27.788	3.384
4004	1.118	34.690	27.788	3.386



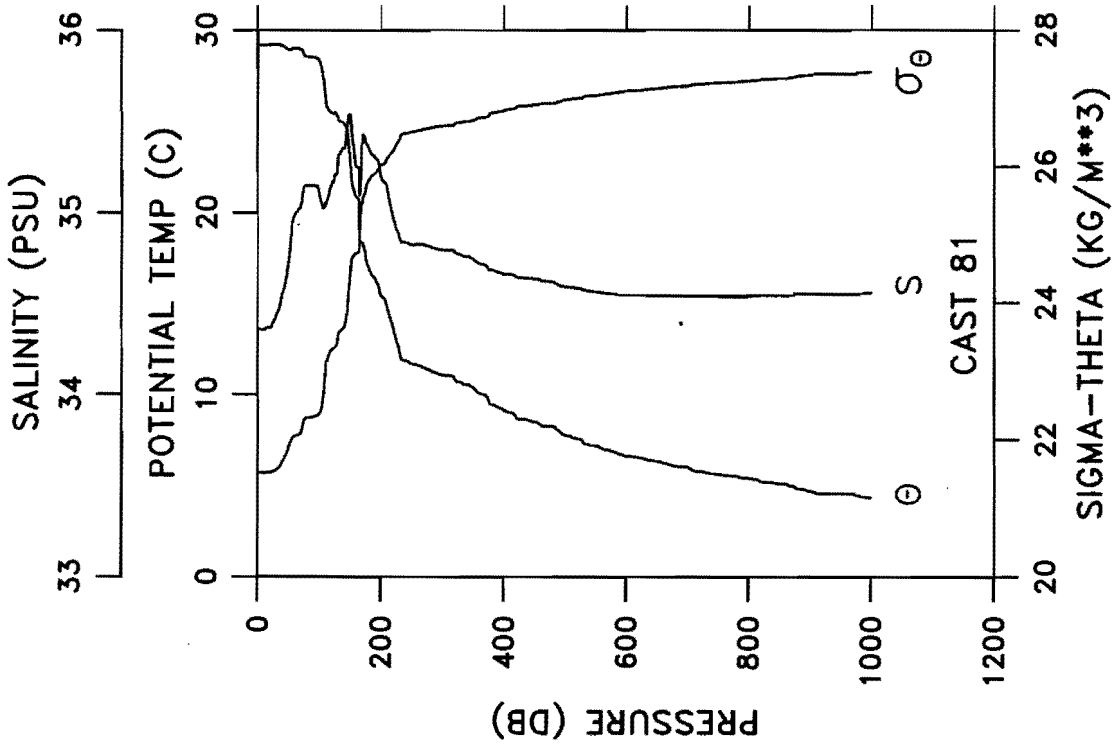
CAST GP4-99-KA-0072 DATE 09 AUG 99 TIME 0736 GMT
 LAT 02 00.2N LONG 164 58.8E WEATHER 2 SEA STATE 3
 BAROMETER 09 WIND DIR 335 T SPD 02 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 28.1 WET 25.5 DEPTH 4170 M



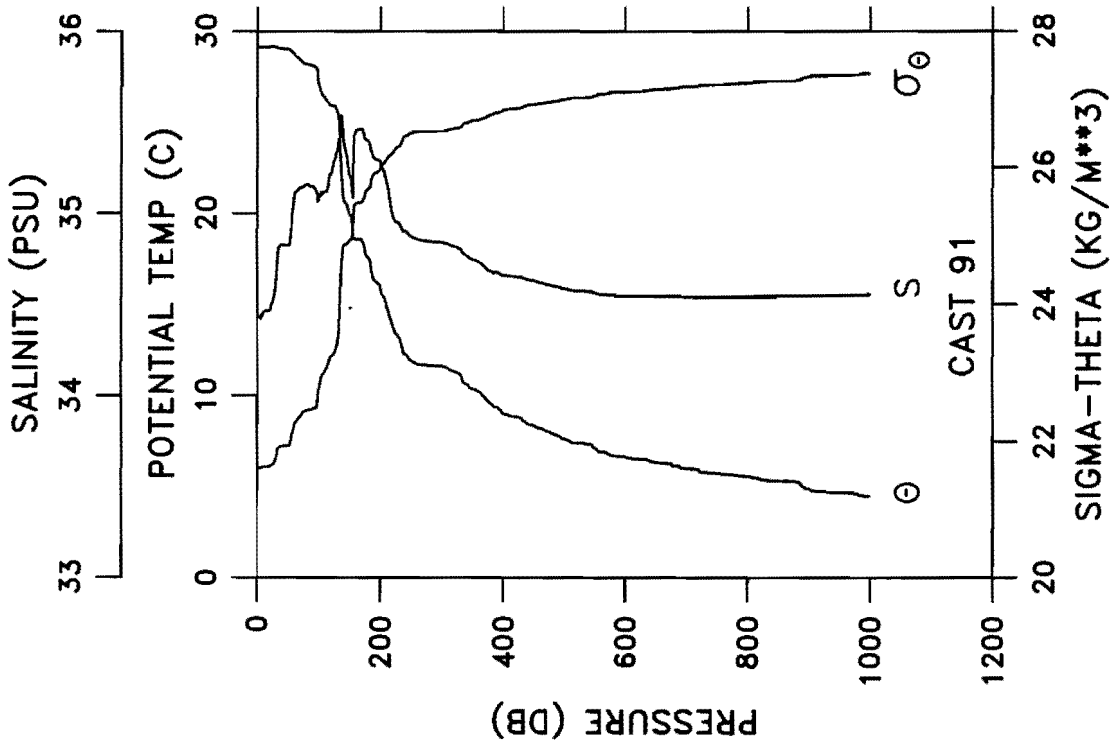
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.296	34.150	21.330	0.000
10	29.113	34.155	21.394	0.064
20	29.116	34.194	21.422	0.128
30	29.183	34.341	21.511	0.192
40	29.198	34.491	21.618	0.254
50	29.221	34.552	21.656	0.316
60	29.201	34.573	21.678	0.377
70	29.176	34.600	21.707	0.439
80	28.940	34.573	21.766	0.500
90	28.501	34.652	21.971	0.560
100	28.260	34.749	22.123	0.618
110	26.575	34.869	22.756	0.673
120	24.329	34.929	23.492	0.720
130	22.700	34.909	23.952	0.762
140	21.999	34.949	24.181	0.802
150	21.190	34.895	24.440	0.838
160	20.022	35.011	24.766	0.872
170	18.649	34.869	25.011	0.903
180	16.608	34.808	25.460	0.931
190	14.655	34.666	25.790	0.955
200	12.143	34.816	26.419	0.973
207	11.618	34.754	26.470	0.985

CAST GP4-99-KA-0081 DATE 09 AUG 99 TIME 1724 GMT
 LAT 00 59.9N LONG 165 00.2E WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 171 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.8 WET 24.6 DEPTH 4329 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.195	34.359	21.520	0.000
10	29.193	34.356	21.519	0.063
20	29.203	34.364	21.521	0.126
30	29.226	34.428	21.562	0.188
40	29.144	34.552	21.682	0.250
50	28.935	34.721	21.878	0.311
60	29.018	34.988	22.051	0.369
70	28.970	35.037	22.104	0.427
80	28.566	35.149	22.322	0.483
90	28.528	35.147	22.334	0.539
100	28.310	35.101	22.371	0.594
110	26.282	35.034	22.973	0.647
120	25.458	35.160	23.324	0.694
130	25.212	35.303	23.507	0.739
140	24.877	35.352	23.647	0.783
150	22.785	35.535	24.403	0.823
160	20.826	35.251	24.733	0.857
170	18.331	35.385	25.486	0.886
180	16.945	35.352	25.799	0.910
190	16.355	35.303	25.900	0.932
200	15.427	35.193	26.027	0.953
250	11.669	34.821	26.513	1.041
300	11.058	34.793	26.604	1.118
350	10.389	34.744	26.685	1.191
400	9.121	34.657	26.830	1.259
450	8.489	34.634	26.912	1.322
500	7.757	34.591	26.989	1.381
550	7.171	34.563	27.051	1.437
600	6.597	34.546	27.116	1.490
650	6.322	34.544	27.151	1.542
700	6.007	34.541	27.189	1.591
750	5.610	34.537	27.235	1.638
800	5.400	34.538	27.262	1.684
900	4.696	34.548	27.352	1.770
1000	4.326	34.556	27.398	1.850
1003	4.312	34.556	27.400	1.852

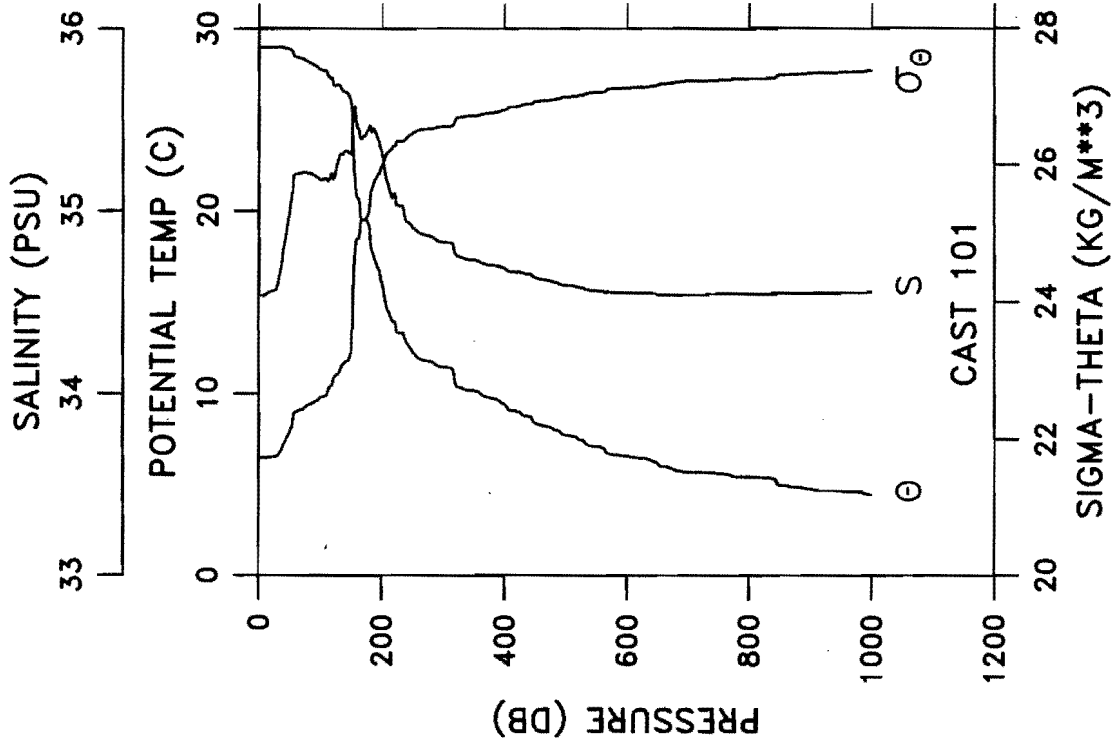


CAST GP4-99-KA-0091 DATE 09 AUG 99 TIME 2131 GMT
 LAT 00 30.0N LONG 165 00.8E WEATHER 6 SEA STATE 3
 BAROMETER 12 WIND DIR 176 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 28.0 WET 25.0 DEPTH 4365 M



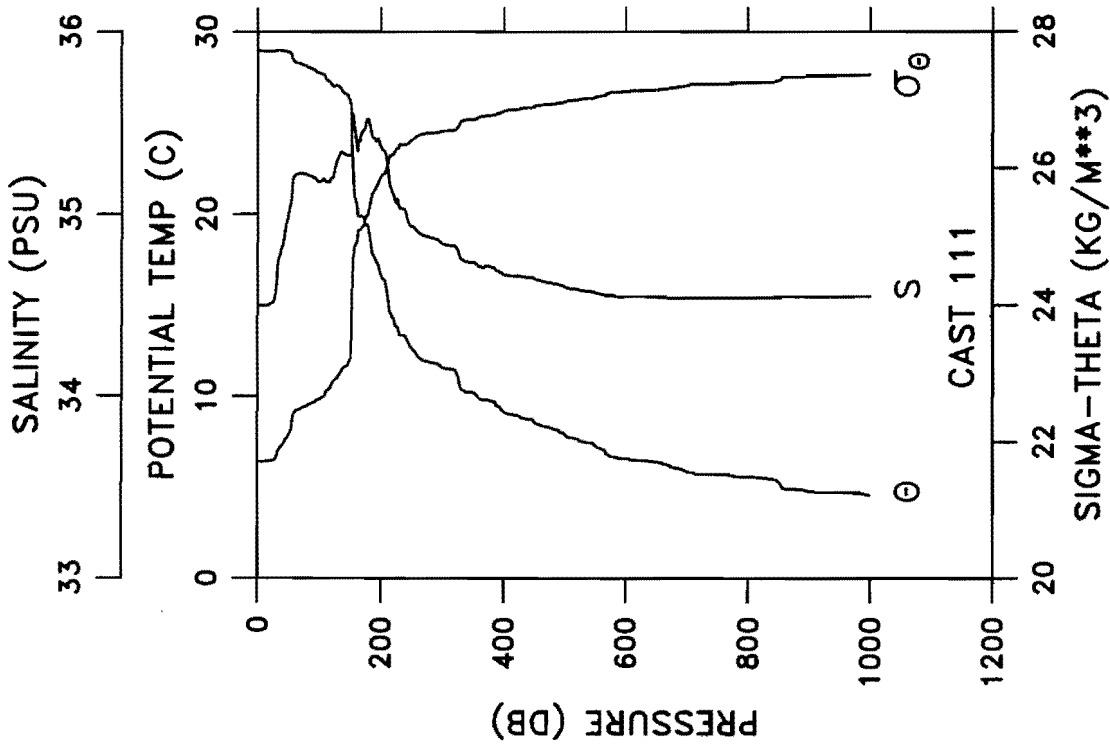
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.103	34.431	21.605	0.000
10	29.115	34.459	21.621	0.062
20	29.126	34.466	21.624	0.124
30	29.121	34.617	21.738	0.185
40	29.033	34.828	21.927	0.245
50	28.997	34.825	21.936	0.304
60	28.746	35.093	22.221	0.362
70	28.428	35.138	22.360	0.417
80	28.193	35.156	22.451	0.472
90	28.090	35.145	22.476	0.526
100	27.077	35.086	22.760	0.579
110	26.318	35.117	23.024	0.629
120	25.878	35.217	23.237	0.677
130	25.533	35.343	23.439	0.723
140	20.693	35.391	24.876	0.760
150	19.911	35.205	24.943	0.791
160	18.566	35.451	25.477	0.820
170	18.474	35.458	25.506	0.845
180	17.548	35.395	25.686	0.869
190	16.279	35.299	25.915	0.892
200	15.771	35.270	26.008	0.913
250	11.910	34.872	26.507	1.003
300	11.623	34.841	26.537	1.081
350	10.373	34.745	26.689	1.157
400	9.020	34.660	26.849	1.225
450	8.367	34.629	26.927	1.287
500	7.650	34.587	27.001	1.346
550	7.151	34.564	27.054	1.402
600	6.658	34.543	27.106	1.454
650	6.350	34.546	27.149	1.506
700	5.997	34.541	27.190	1.555
750	5.739	34.537	27.220	1.603
800	5.578	34.540	27.242	1.650
900	4.903	34.549	27.329	1.739
1000	4.493	34.554	27.378	1.821
1005	4.489	34.553	27.379	1.825

CAST GP4-99-KA-0101 DATE 10 AUG 99 TIME 0621 GMT
 LAT 00 00.7N LONG 164 59.9E WEATHER 6 SEA STATE 3
 BAROMETER 10 WIND DIR 191 T SPD 06 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 24.8 WET 24.1 DEPTH 4406 M



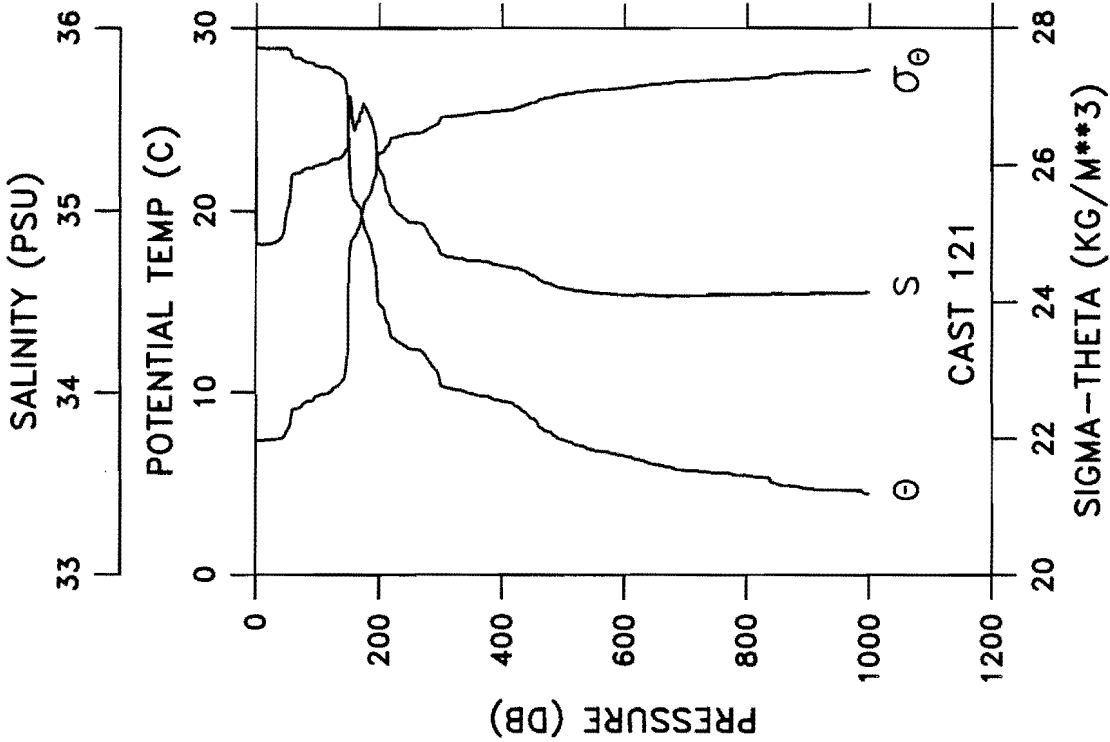
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.981	34.538	21.726	0.000
10	28.981	34.539	21.727	0.061
20	28.990	34.561	21.740	0.121
30	28.995	34.585	21.757	0.182
40	28.964	34.788	21.919	0.242
50	28.886	34.976	22.086	0.300
60	28.442	35.200	22.402	0.356
70	28.363	35.207	22.434	0.411
80	28.157	35.204	22.499	0.465
90	27.985	35.191	22.546	0.518
100	27.730	35.168	22.611	0.571
110	27.622	35.175	22.652	0.624
120	27.105	35.180	22.822	0.676
130	26.865	35.287	22.979	0.725
140	26.483	35.326	23.129	0.774
150	25.882	35.305	23.302	0.821
160	20.691	35.451	24.923	0.857
170	19.526	35.409	25.199	0.887
180	18.942	35.464	25.392	0.915
190	17.165	35.423	25.800	0.938
200	16.048	35.315	25.980	0.960
250	12.286	34.906	26.462	1.050
300	11.468	34.827	26.556	1.128
350	10.158	34.731	26.715	1.201
400	9.421	34.684	26.802	1.269
450	8.406	34.633	26.925	1.333
500	7.744	34.592	26.991	1.392
550	7.105	34.561	27.059	1.448
600	6.586	34.552	27.122	1.500
650	6.196	34.542	27.165	1.551
700	5.707	34.540	27.226	1.598
750	5.630	34.543	27.238	1.645
800	5.453	34.543	27.260	1.691
900	4.774	34.549	27.343	1.778
1000	4.468	34.555	27.382	1.859
1500	3.038	34.597	27.560	2.210
2000	2.159	34.636	27.667	2.492
2500	1.694	34.659	27.722	2.739
3000	1.451	34.670	27.749	2.974
3500	1.273	34.680	27.769	3.200
4000	1.143	34.688	27.785	3.422
4003	1.142	34.688	27.785	3.424

CAST GP4-99-KA-0111 DATE 11 AUG 99 TIME 0043 GMT
 LAT 00 01.35 LONG 165 00.7E WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 140 T SPD 26 KT VISIBILITY 7
 CLOUD 0 AMOUNT 7 DRY 27.8 WET 24.3 DEPTH 4404 M



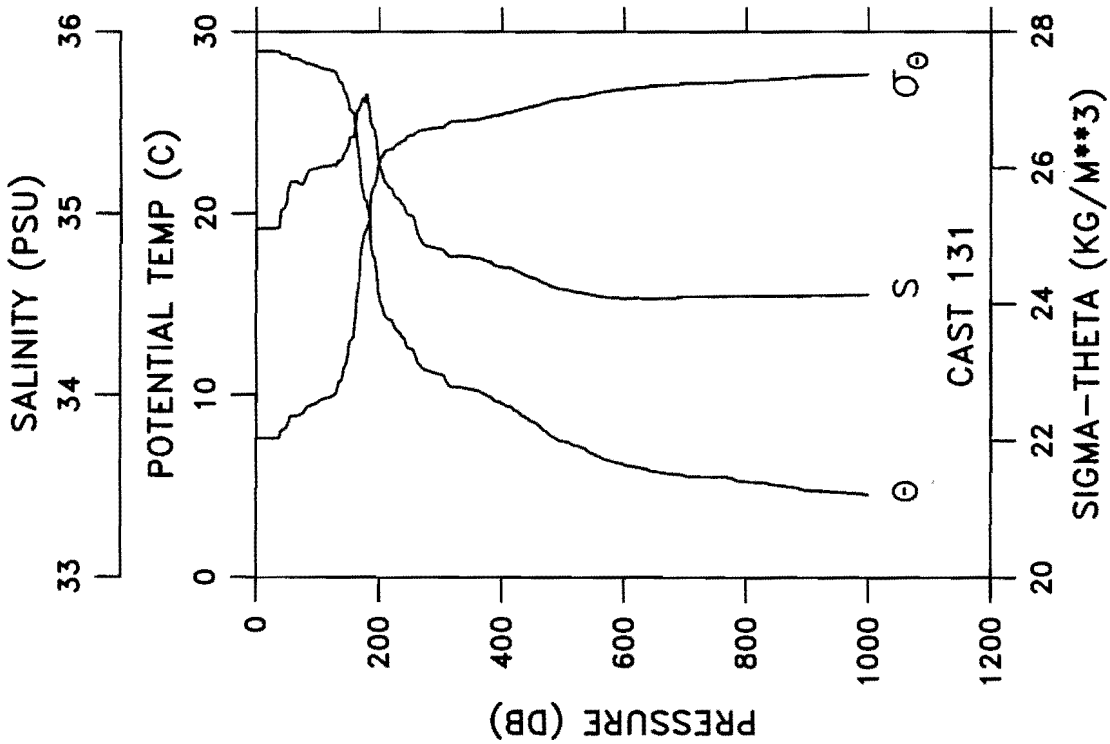
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.941	34.500	21.711	0.000
10	28.935	34.497	21.711	0.061
20	28.919	34.508	21.724	0.122
30	28.957	34.595	21.777	0.183
40	28.948	34.825	21.953	0.242
50	28.887	35.000	22.104	0.300
60	28.349	35.209	22.439	0.356
70	28.221	35.224	22.492	0.410
80	28.088	35.216	22.530	0.463
90	27.918	35.201	22.575	0.517
100	27.707	35.175	22.624	0.569
110	27.446	35.176	22.710	0.622
120	27.065	35.197	22.847	0.673
130	27.007	35.304	22.947	0.723
140	26.635	35.331	23.085	0.772
150	26.216	35.317	23.207	0.820
160	20.549	35.393	24.917	0.856
170	19.835	35.452	25.152	0.886
180	19.098	35.511	25.388	0.913
190	17.555	35.411	25.697	0.938
200	16.628	35.365	25.884	0.961
250	12.617	34.929	26.415	1.054
300	11.570	34.839	26.546	1.133
350	10.199	34.737	26.713	1.207
400	9.164	34.669	26.833	1.275
450	8.587	34.644	26.905	1.338
500	7.926	34.601	26.972	1.388
550	7.286	34.570	27.040	1.455
600	6.581	34.550	27.121	1.508
650	6.392	34.546	27.144	1.559
700	5.843	34.538	27.207	1.608
750	5.704	34.539	27.226	1.655
800	5.563	34.542	27.246	1.701
900	4.746	34.549	27.347	1.789
1000	4.554	34.550	27.369	1.871
1002	4.550	34.550	27.370	1.873

CAST GP4-99-KA-0121 DATE 11 AUG 99 TIME 0452 GMT
 LAT 00 30.1S LONG 164 49.3E WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 110 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.9 WET 24.6 DEPTH 4428 M



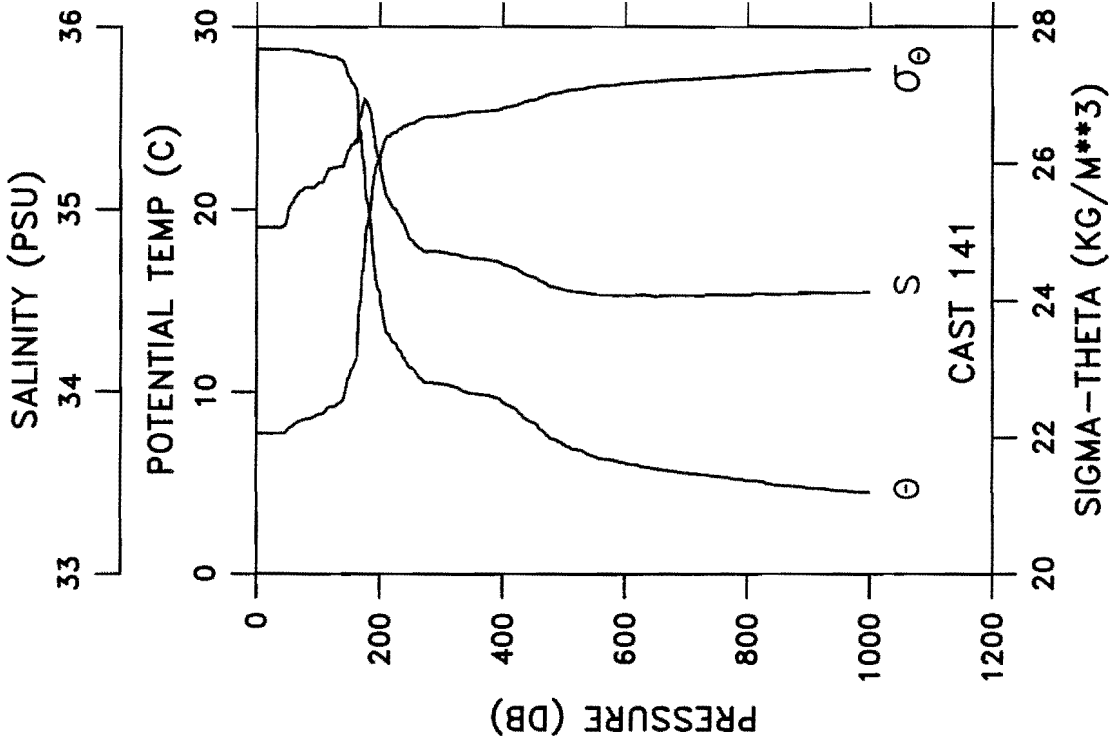
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.926	34.821	21.957	0.000
10	28.897	34.816	21.962	0.059
20	28.871	34.818	21.973	0.117
30	28.867	34.826	21.980	0.175
40	28.878	34.849	21.994	0.234
50	28.864	34.992	22.106	0.292
60	28.389	35.204	22.422	0.348
70	28.334	35.207	22.443	0.402
80	28.114	35.231	22.533	0.456
90	28.078	35.234	22.547	0.510
100	27.894	35.249	22.619	0.563
110	27.831	35.257	22.645	0.615
120	27.770	35.270	22.675	0.667
130	27.542	35.284	22.759	0.719
140	27.303	35.300	22.848	0.770
150	24.101	35.464	23.965	0.819
160	20.512	35.437	24.960	0.851
170	20.029	35.535	25.164	0.881
180	18.767	35.545	25.498	0.908
190	17.577	35.462	25.730	0.932
200	14.922	35.226	26.164	0.953
250	12.429	34.935	26.456	1.040
300	10.499	34.765	26.683	1.119
350	9.989	34.727	26.741	1.188
400	9.557	34.699	26.792	1.256
450	8.594	34.646	26.906	1.320
500	7.422	34.577	27.026	1.378
550	6.861	34.552	27.086	1.432
600	6.547	34.540	27.118	1.485
650	6.080	34.538	27.178	1.535
700	5.753	34.535	27.217	1.583
750	5.626	34.541	27.237	1.629
800	5.486	34.544	27.256	1.675
900	4.748	34.546	27.344	1.762
1000	4.482	34.554	27.380	1.844
1002	4.482	34.554	27.380	1.845

CAST GP4-99-KA-0131 DATE 11 AUG 99 TIME 0850 GMT
 LAT 00 59.8S LONG 164 58.2E WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 060 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.2 WET 24.7 DEPTH 4414 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.906	34.916	22.035	0.000
10	28.912	34.915	22.032	0.058
20	28.914	34.916	22.032	0.116
30	28.913	34.918	22.034	0.174
40	28.792	35.012	22.145	0.231
50	28.737	35.078	22.213	0.288
60	28.523	35.174	22.356	0.343
70	28.450	35.162	22.371	0.398
80	28.275	35.195	22.453	0.453
90	28.182	35.243	22.520	0.507
100	28.081	35.252	22.560	0.560
110	27.946	35.261	22.610	0.613
120	27.876	35.263	22.635	0.666
130	27.640	35.272	22.718	0.718
140	27.023	35.307	22.944	0.769
150	25.979	35.379	23.328	0.817
160	24.919	35.474	23.726	0.862
170	21.678	35.607	24.771	0.899
180	20.419	35.632	25.133	0.930
190	17.639	35.488	25.721	0.956
200	15.347	35.255	26.093	0.977
250	12.512	34.990	26.483	1.065
300	11.122	34.803	26.600	1.142
350	10.314	34.758	26.709	1.214
400	9.555	34.707	26.798	1.282
450	8.557	34.645	26.911	1.346
500	7.475	34.582	27.023	1.404
550	6.752	34.550	27.098	1.459
600	6.166	34.530	27.160	1.509
650	5.792	34.530	27.207	1.557
700	5.547	34.542	27.247	1.604
750	5.497	34.542	27.254	1.649
800	5.229	34.545	27.288	1.694
900	4.753	34.546	27.343	1.779
1000	4.514	34.554	27.376	1.861
1002	4.514	34.554	27.376	1.863

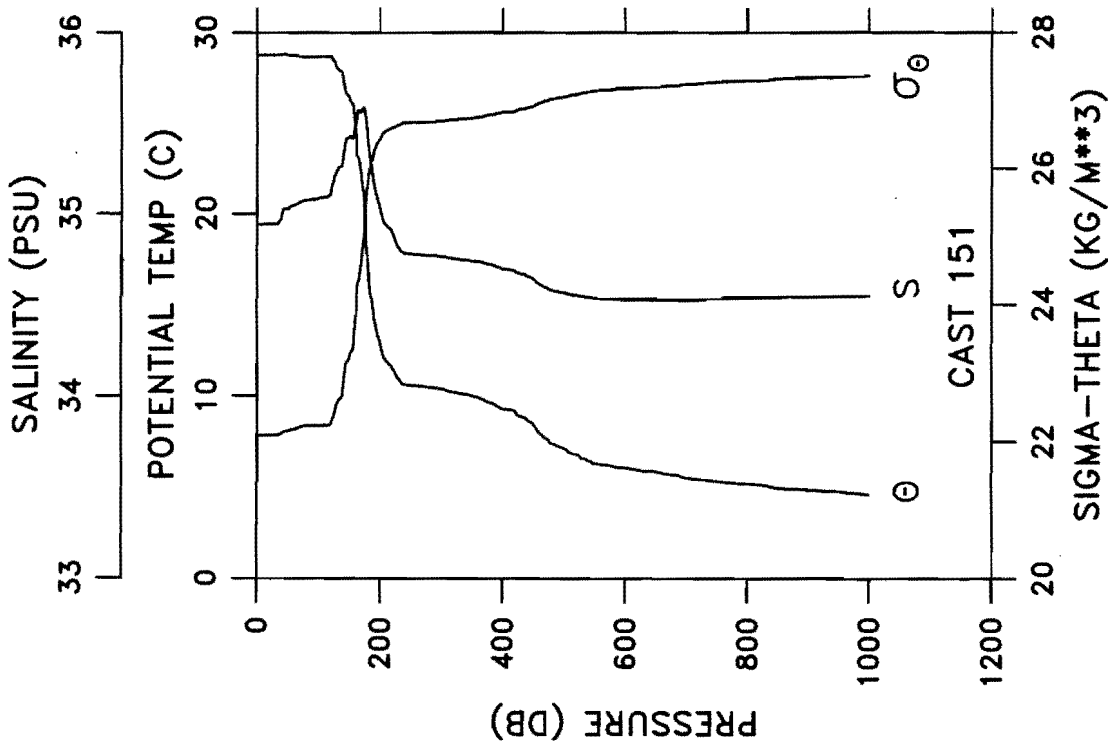
CAST GP4-99-KA-0141 DATE 11 AUG 99 TIME 1251 GMT
 LAT 01 29.6S LONG 164 26.5E WEATHER 5 SEA STATE 4
 BAROMETER 10 WIND DIR 060 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 28.0 WET 25.5 DEPTH 4438 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.790	34.906	22.066	0.000
10	28.790	34.904	22.064	0.058
20	28.788	34.904	22.065	0.115
30	28.785	34.904	22.066	0.173
40	28.788	34.905	22.066	0.230
50	28.794	34.960	22.105	0.288
60	28.768	35.044	22.177	0.345
70	28.692	35.096	22.241	0.401
80	28.646	35.119	22.274	0.457
90	28.607	35.120	22.287	0.513
100	28.502	35.144	22.340	0.569
110	28.450	35.170	22.377	0.624
120	28.348	35.225	22.452	0.679
130	28.281	35.232	22.479	0.733
140	28.110	35.234	22.537	0.787
150	27.289	35.325	22.872	0.839
160	26.677	35.375	23.105	0.888
170	23.669	35.532	24.144	0.932
180	20.364	35.578	25.107	0.965
190	17.198	35.411	25.783	0.991
200	15.514	35.262	26.061	1.012
250	11.320	34.838	26.591	1.094
300	10.436	34.767	26.695	1.165
350	9.914	34.734	26.759	1.235
400	9.429	34.701	26.815	1.302
450	8.332	34.632	26.935	1.365
500	7.119	34.563	27.059	1.421
550	6.459	34.539	27.129	1.473
600	6.102	34.532	27.170	1.523
650	5.776	34.525	27.206	1.571
700	5.535	34.532	27.241	1.617
750	5.361	34.533	27.263	1.662
800	5.115	34.533	27.292	1.707
900	4.719	34.546	27.347	1.791
1000	4.483	34.550	27.377	1.873
1002	4.471	34.550	27.378	1.874

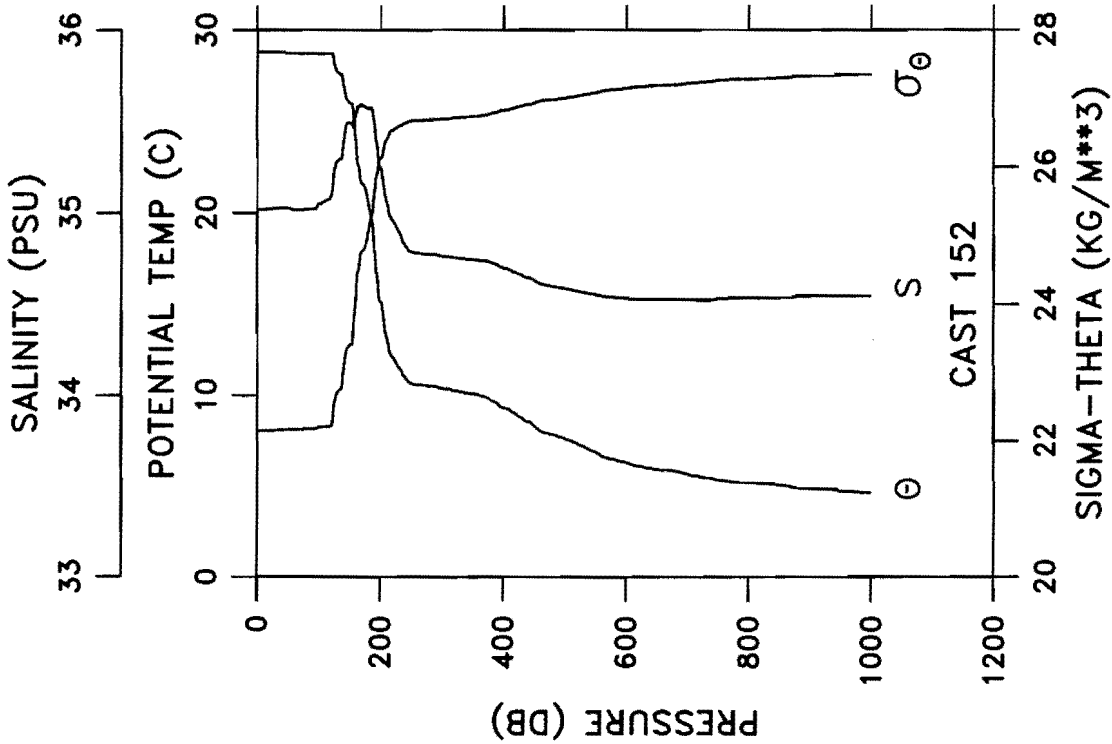
CAST GP4-99-KA-0151 DATE 11 AUG 99 TIME 1844 GMT
 LAT 01 52.9S LONG 164 15.8E WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 051 T SPD 06 KT VISIBILITY 7
 CLOUD 1 AMOUNT 6 DRY 25.7 WET 24.1 DEPTH 4441 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.782	34.941	22.095	0.000
10	28.782	34.942	22.096	0.057
20	28.781	34.943	22.097	0.115
30	28.780	34.943	22.097	0.172
40	28.792	34.986	22.125	0.229
50	28.769	35.023	22.160	0.286
60	28.761	35.044	22.179	0.343
70	28.678	35.065	22.223	0.399
80	28.664	35.074	22.234	0.456
90	28.668	35.080	22.237	0.512
100	28.674	35.084	22.238	0.568
110	28.685	35.092	22.240	0.625
120	28.672	35.116	22.263	0.681
130	28.044	35.237	22.561	0.736
140	27.348	35.327	22.654	0.788
150	26.386	35.428	23.238	0.837
160	24.609	35.488	23.830	0.882
170	21.838	35.567	24.696	0.918
180	17.150	35.403	25.789	0.946
190	14.205	35.161	26.269	0.966
200	12.812	35.023	26.449	0.983
250	10.568	34.777	26.679	1.057
300	10.383	34.764	26.702	1.127
350	10.010	34.739	26.747	1.196
400	9.303	34.695	26.831	1.263
450	8.500	34.639	26.914	1.326
500	7.131	34.565	27.058	1.383
550	6.300	34.536	27.148	1.434
600	6.055	34.529	27.174	1.483
650	5.860	34.527	27.197	1.531
700	5.503	34.523	27.238	1.578
750	5.313	34.532	27.268	1.623
800	5.171	34.537	27.289	1.667
900	4.845	34.543	27.331	1.753
1000	4.573	34.547	27.364	1.836
1500	2.998	34.591	27.559	2.194
2000	2.252	34.630	27.655	2.482
2500	1.675	34.659	27.724	2.732
3000	1.444	34.670	27.749	2.963
3500	1.276	34.680	27.769	3.190
4000	1.116	34.691	27.789	3.412
4004	1.116	34.690	27.789	3.414



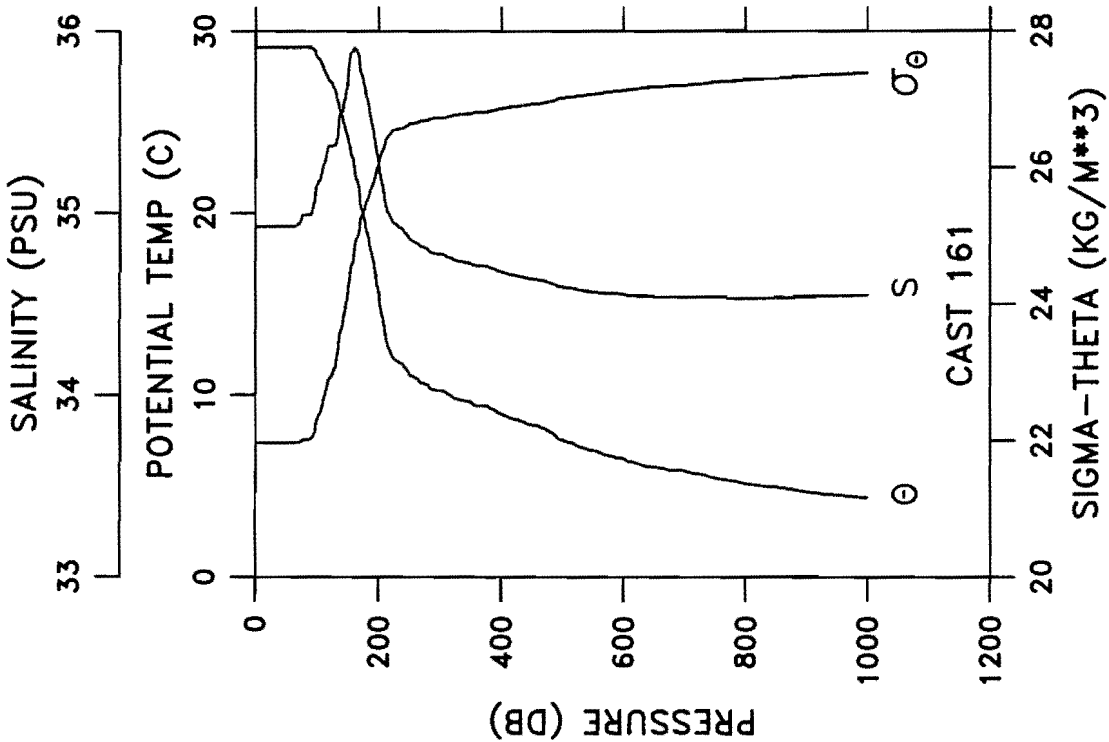
CAST GP4-99-KA-0152 DATE 12 AUG 99 TIME 0320 GMT
 LAT 01 56.15 LONG 164 25.6E WEATHER 2 SEA STATE 4
 BAROMETER 07 WIND DIR 027 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 26.0 WET 27.7 DEPTH 4431 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.820	35.019	22.141	0.000
10	28.812	35.019	22.144	0.057
20	28.808	35.022	22.147	0.114
30	28.802	35.026	22.152	0.170
40	28.792	35.029	22.158	0.227
50	28.771	35.026	22.162	0.284
60	28.743	35.018	22.166	0.341
70	28.729	35.016	22.169	0.398
80	28.736	35.022	22.171	0.454
90	28.733	35.023	22.173	0.511
100	28.712	35.051	22.201	0.568
110	28.731	35.066	22.205	0.625
120	28.748	35.092	22.219	0.682
130	27.684	35.285	22.714	0.736
140	26.883	35.393	23.054	0.787
150	26.008	35.491	23.403	0.833
160	23.913	35.551	24.086	0.876
170	21.593	35.585	24.778	0.911
180	20.547	35.572	25.054	0.942
190	18.006	35.487	25.644	0.970
200	15.143	35.245	26.130	0.991
250	10.661	34.788	26.671	1.069
300	10.383	34.763	26.701	1.140
350	10.106	34.746	26.736	1.210
400	9.341	34.699	26.828	1.277
450	8.369	34.632	26.929	1.340
500	7.627	34.586	27.004	1.398
550	6.879	34.554	27.084	1.452
600	6.292	34.534	27.147	1.503
650	5.918	34.529	27.191	1.552
700	5.672	34.526	27.220	1.600
750	5.322	34.531	27.266	1.646
800	5.206	34.536	27.284	1.690
900	4.871	34.545	27.329	1.777
1000	4.658	34.546	27.355	1.860
1002	4.648	34.546	27.356	1.862



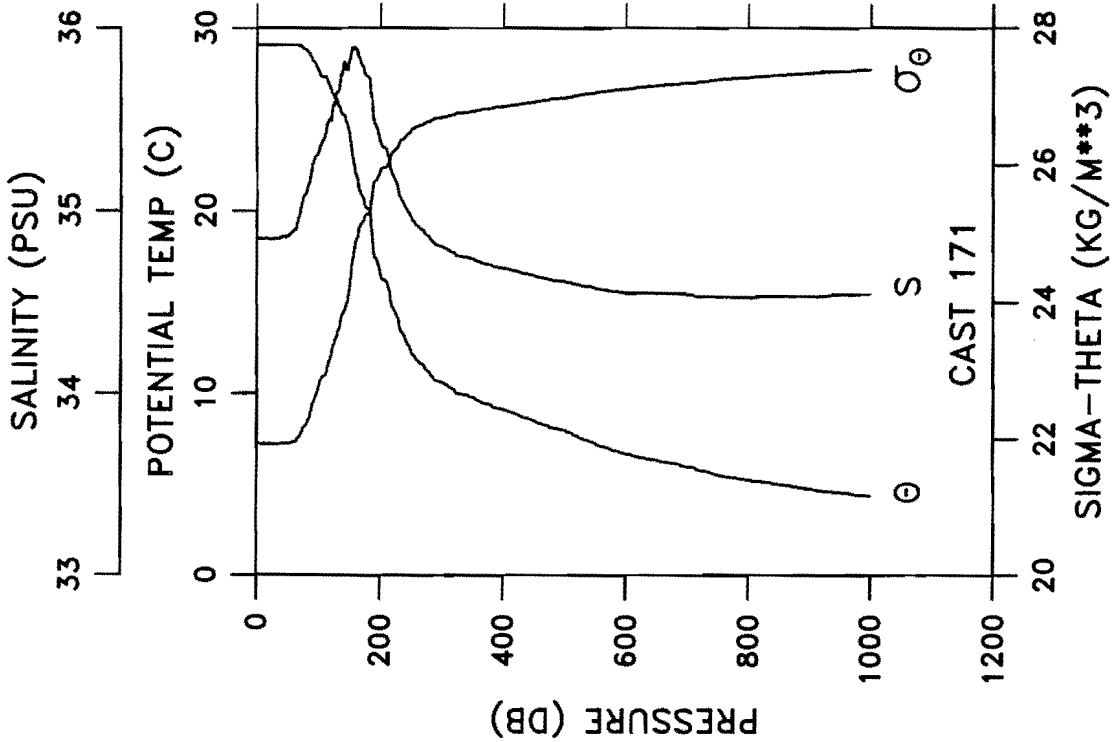
CAST GP4-99-KA-0161 DATE 12 AUG 99 TIME 1039 GMT
 LAT 02 59.9S LONG 164 42.0E WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 037 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.5 WET 25.1 DEPTH 3927 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.124	34.928	21.970	0.000
10	29.121	34.925	21.970	0.058
20	29.125	34.925	21.968	0.117
30	29.130	34.925	21.966	0.175
40	29.123	34.925	21.969	0.234
50	29.118	34.925	21.970	0.293
60	29.110	34.926	21.974	0.351
70	29.115	34.939	21.982	0.410
80	29.136	34.989	22.012	0.469
90	29.100	34.991	22.026	0.527
100	28.600	35.156	22.316	0.584
110	27.982	35.260	22.599	0.639
120	27.271	35.372	22.913	0.690
130	26.699	35.377	23.100	0.739
140	25.374	35.559	23.651	0.784
150	24.154	35.739	24.157	0.825
160	22.610	35.909	24.737	0.860
170	20.576	35.782	25.206	0.891
180	19.006	35.641	25.511	0.917
190	17.579	35.472	25.738	0.942
200	15.636	35.267	26.037	0.963
250	11.083	34.857	26.650	1.043
300	10.241	34.774	26.734	1.114
350	9.638	34.723	26.797	1.181
400	8.969	34.676	26.870	1.245
450	8.374	34.638	26.933	1.306
500	7.546	34.593	27.021	1.365
550	6.964	34.565	27.082	1.419
600	6.507	34.553	27.134	1.471
650	6.043	34.540	27.184	1.520
700	5.836	34.540	27.210	1.568
750	5.441	34.538	27.257	1.614
800	5.127	34.531	27.289	1.659
900	4.685	34.539	27.345	1.744
1000	4.354	34.548	27.389	1.824
1002	4.349	34.547	27.389	1.826

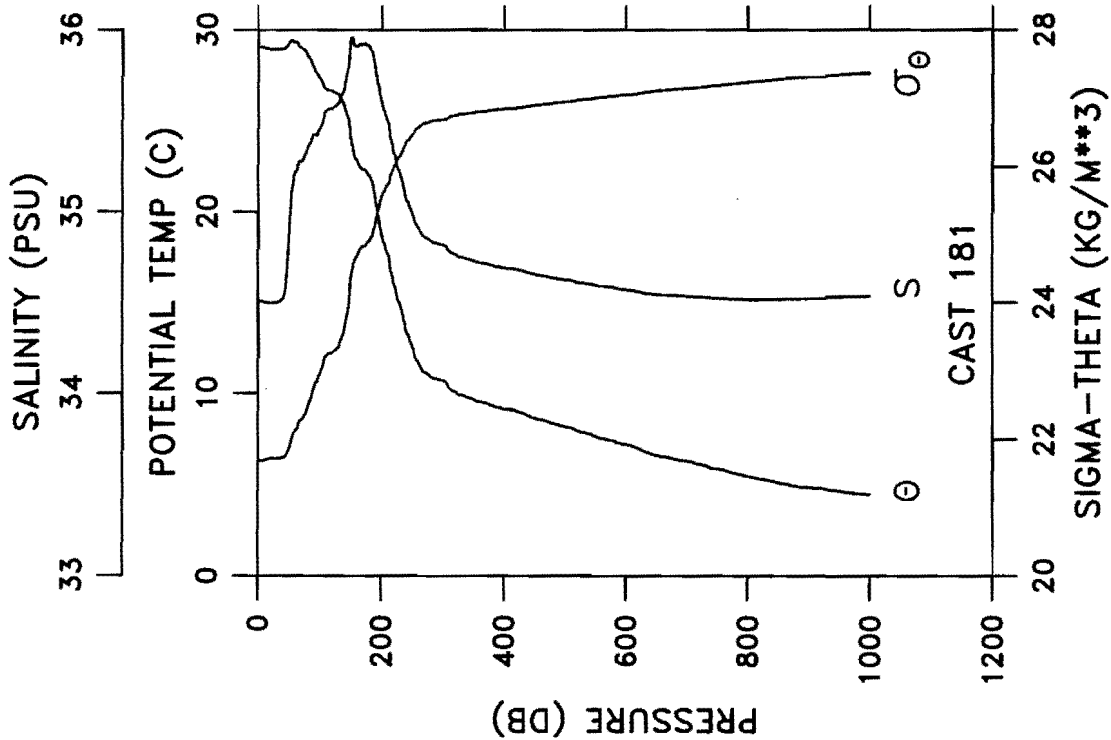


CAST GP4-99-KA-0171 DATE 12 AUG 99 TIME 1733 GMT
 LAT 03 59.9S LONG 164 56.6E WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 050 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.8 WET 24.3 DEPTH 3226 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.076	34.850	21.928	0.000
10	29.072	34.848	21.928	0.059
20	29.074	34.848	21.927	0.118
30	29.086	34.848	21.923	0.177
40	29.094	34.858	21.929	0.236
50	29.095	34.864	21.932	0.295
60	29.096	34.898	21.958	0.354
70	29.040	34.982	22.040	0.412
80	28.792	35.095	22.207	0.469
90	28.199	35.254	22.523	0.525
100	27.631	35.316	22.755	0.577
110	27.300	35.405	22.929	0.628
120	26.638	35.497	23.210	0.676
130	25.980	35.649	23.531	0.721
140	25.269	35.799	23.864	0.764
150	24.227	35.826	24.201	0.804
160	22.026	35.890	24.888	0.838
170	20.820	35.797	25.151	0.868
180	20.118	35.730	25.289	0.896
190	17.565	35.485	25.752	0.921
200	16.569	35.380	25.908	0.944
250	12.300	34.968	26.507	1.037
300	10.620	34.806	26.693	1.111
350	9.813	34.739	26.780	1.179
400	9.138	34.688	26.852	1.244
450	8.538	34.649	26.916	1.307
500	8.006	34.616	26.972	1.366
550	7.245	34.578	27.052	1.422
600	6.678	34.551	27.109	1.475
650	6.338	34.551	27.154	1.526
700	5.993	34.545	27.194	1.575
750	5.521	34.532	27.243	1.623
800	5.257	34.528	27.271	1.668
900	4.769	34.538	27.335	1.754
1000	4.369	34.547	27.387	1.835
1002	4.366	34.547	27.387	1.837

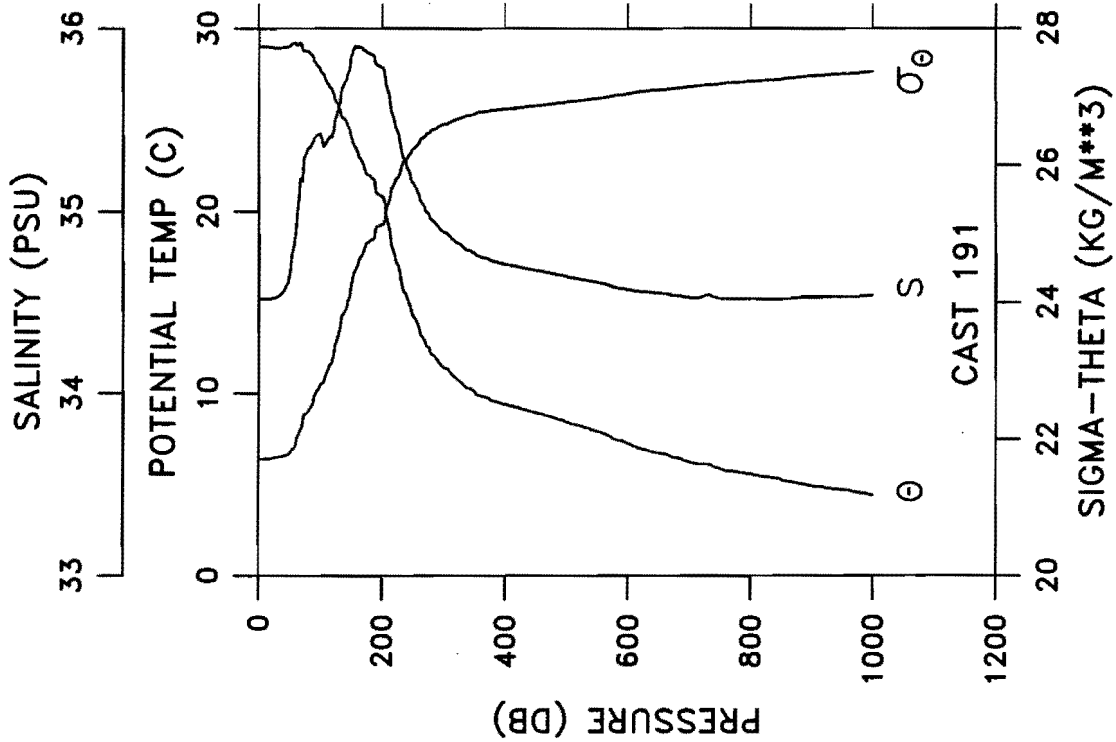


CAST GP4-99-KA-0181 DATE 13 AUG 99 TIME 0252 GMT
 LAT 04 59.3S LONG 165 10.8E WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 057 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.7 WET 24.7 DEPTH 2497 M



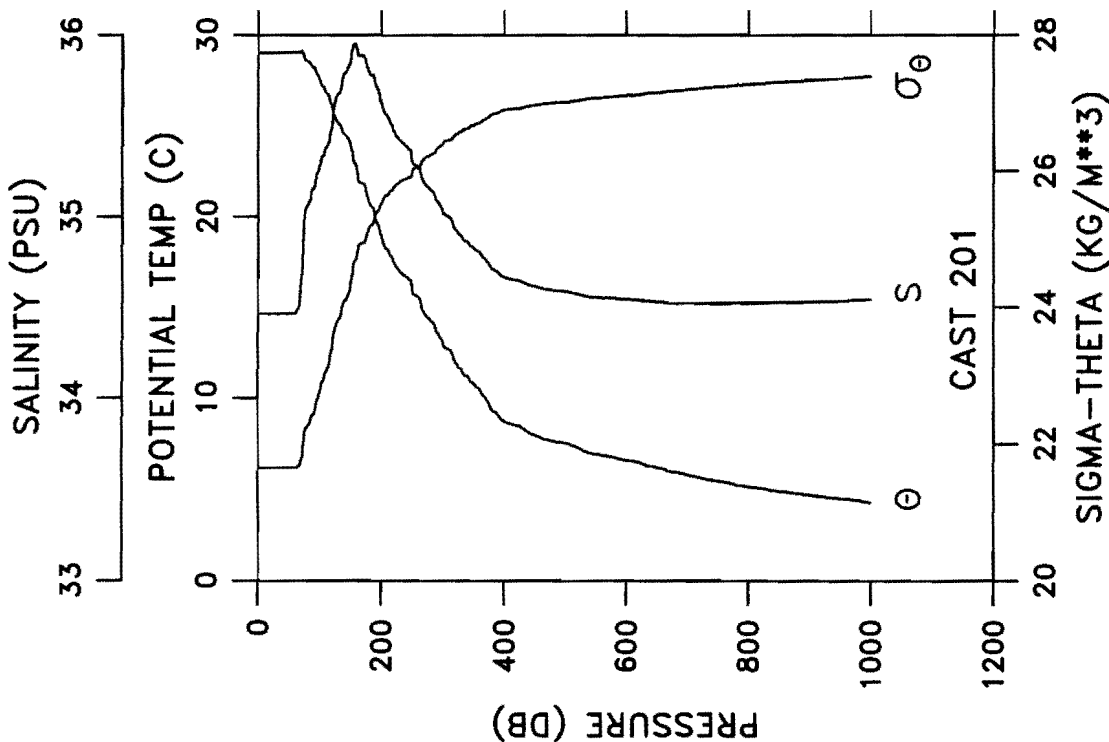
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.051	34.510	21.682	0.000
10	29.009	34.504	21.691	0.061
20	28.934	34.497	21.711	0.122
30	28.927	34.501	21.716	0.183
40	28.945	34.521	21.726	0.244
50	29.282	34.849	21.858	0.305
60	29.334	35.224	22.122	0.363
70	29.012	35.279	22.272	0.420
80	28.622	35.349	22.455	0.475
90	27.966	35.426	22.728	0.528
100	27.360	35.457	22.949	0.578
110	26.778	35.557	23.210	0.626
120	26.657	35.571	23.259	0.673
130	26.460	35.598	23.342	0.719
140	25.785	35.692	23.624	0.784
150	24.062	35.956	24.348	0.805
160	22.858	35.907	24.664	0.839
170	22.347	35.922	24.822	0.872
180	22.019	35.908	24.904	0.903
190	20.689	35.776	25.171	0.933
200	18.776	35.609	25.545	0.960
250	12.570	34.994	26.475	1.061
300	10.706	34.817	26.687	1.135
350	9.688	34.730	26.794	1.203
400	9.144	34.689	26.852	1.267
450	8.664	34.656	26.903	1.330
500	8.167	34.625	26.954	1.391
550	7.653	34.595	27.007	1.449
600	7.214	34.570	27.050	1.505
650	6.608	34.544	27.113	1.559
700	6.294	34.535	27.148	1.610
750	5.886	34.526	27.192	1.660
800	5.449	34.516	27.238	1.707
900	4.862	34.524	27.314	1.796
1000	4.461	34.535	27.368	1.879
1004	4.448	34.535	27.369	1.882

CAST GP4-99-KA-0191 DATE 13 AUG 99 TIME 0938 GMT
 LAT 06 00.0S LONG 165 04.3E WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 081 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.9 WET 24.5 DEPTH 3604 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.994	34.520	21.708	0.000
10	28.997	34.519	21.706	0.061
20	28.985	34.519	21.710	0.122
30	28.935	34.531	21.736	0.183
40	28.963	34.562	21.750	0.244
50	29.034	34.648	21.791	0.304
60	29.193	34.883	21.914	0.364
70	29.018	35.171	22.188	0.422
80	28.777	35.341	22.397	0.477
90	28.222	35.399	22.625	0.531
100	27.738	35.422	22.800	0.583
110	27.112	35.375	22.967	0.633
120	26.511	35.423	23.194	0.681
130	25.690	35.572	23.564	0.727
140	24.992	35.709	23.881	0.769
150	24.090	35.849	24.259	0.808
160	23.275	35.898	24.537	0.844
170	22.498	35.883	24.750	0.877
180	21.922	35.864	24.898	0.909
190	21.037	35.808	25.101	0.939
200	20.819	35.787	25.144	0.969
250	14.311	35.157	26.243	1.083
300	11.458	34.886	26.603	1.165
350	10.140	34.771	26.750	1.236
400	9.422	34.710	26.823	1.303
450	8.956	34.677	26.872	1.367
500	8.441	34.642	26.926	1.429
550	7.925	34.610	26.979	1.489
600	7.235	34.569	27.047	1.546
650	6.731	34.552	27.103	1.600
700	6.221	34.527	27.151	1.651
750	5.874	34.522	27.191	1.701
800	5.577	34.521	27.227	1.748
900	4.927	34.529	27.310	1.839
1000	4.418	34.539	27.375	1.922
1002	4.414	34.538	27.374	1.924

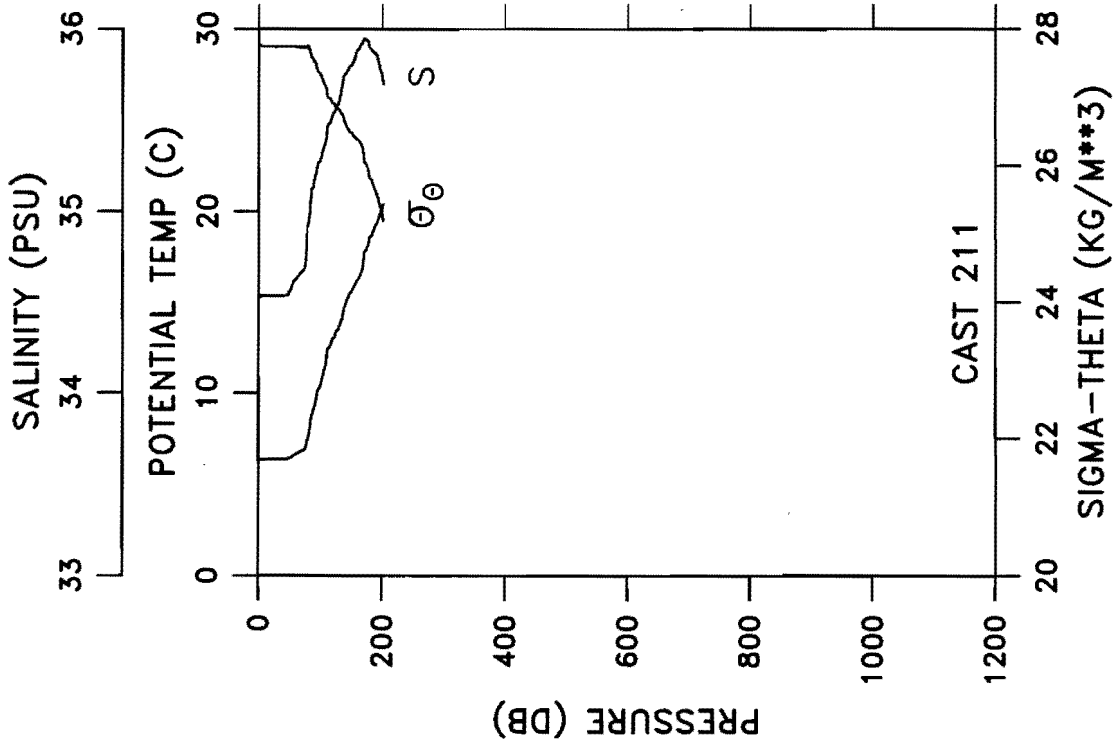
CAST GP4-99-KA-0201 DATE 13 AUG 99 TIME 1606 GMT
 LAT 06 59.7S LONG 164 57.2E WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 100 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.6 WET 24.5 DEPTH 3716 M



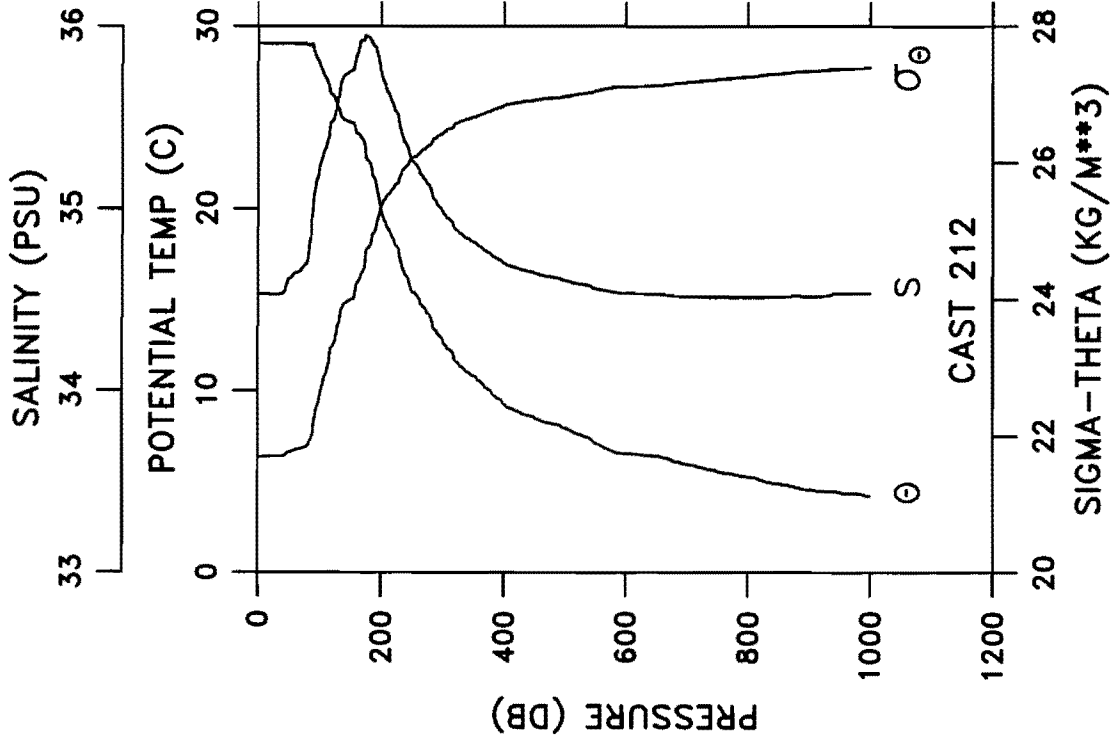
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.036	34.465	21.653	0.000
10	29.034	34.464	21.652	0.061
20	29.033	34.465	21.653	0.123
30	29.033	34.464	21.653	0.185
40	29.032	34.466	21.654	0.246
50	29.032	34.466	21.655	0.308
60	29.032	34.467	21.655	0.369
70	29.120	34.656	21.768	0.431
80	28.575	35.058	22.251	0.489
90	28.243	35.154	22.433	0.544
100	27.532	35.281	22.761	0.597
110	26.845	35.380	23.056	0.647
120	26.069	35.495	23.387	0.694
130	25.130	35.675	23.814	0.737
140	24.520	35.788	24.084	0.777
150	23.908	35.858	24.320	0.815
160	22.608	35.929	24.753	0.849
170	21.817	35.886	24.944	0.880
180	20.779	35.799	25.164	0.910
190	19.805	35.729	25.371	0.938
200	18.929	35.626	25.519	0.964
250	15.886	35.308	26.011	1.078
300	13.031	35.013	26.397	1.173
350	10.837	34.826	26.670	1.251
400	8.721	34.664	26.900	1.317
450	7.997	34.613	26.971	1.377
500	7.543	34.586	27.016	1.434
550	6.950	34.556	27.076	1.488
600	6.599	34.543	27.113	1.541
650	6.200	34.529	27.155	1.592
700	5.809	34.523	27.200	1.641
750	5.472	34.519	27.238	1.688
800	5.161	34.522	27.278	1.733
900	4.700	34.529	27.336	1.819
1000	4.293	34.542	27.391	1.900
1002	4.287	34.542	27.392	1.901

CAST GP4-99-KA-0211 DATE 13 AUG 99 TIME 2305 GMT
 LAT 08 01.5S LONG 164 48.9E WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 122 T SPD 09 KT VISIBILITY 7
 CLOUD 7 AMOUNT 5 DRY 28.0 WET 24.5 DEPTH 3892 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.082	34.533	21.688	0.000
10	29.068	34.538	21.697	0.061
20	29.055	34.538	21.701	0.122
30	29.050	34.538	21.703	0.183
40	29.050	34.538	21.703	0.244
50	29.064	34.559	21.714	0.306
60	29.041	34.626	21.772	0.366
70	28.994	34.670	21.821	0.427
80	29.068	34.924	21.987	0.486
90	28.212	35.169	22.455	0.543
100	27.527	35.277	22.759	0.595
110	26.656	35.407	23.136	0.645
120	25.939	35.534	23.457	0.691
130	25.563	35.605	23.628	0.735
140	24.882	35.753	23.948	0.776
150	24.318	35.801	24.155	0.815
160	23.944	35.888	24.332	0.853
170	23.112	35.943	24.618	0.888
180	21.810	35.897	24.954	0.920
190	21.072	35.864	25.133	0.950
200	19.858	35.743	25.367	0.978
202	19.476	35.698	25.433	0.984

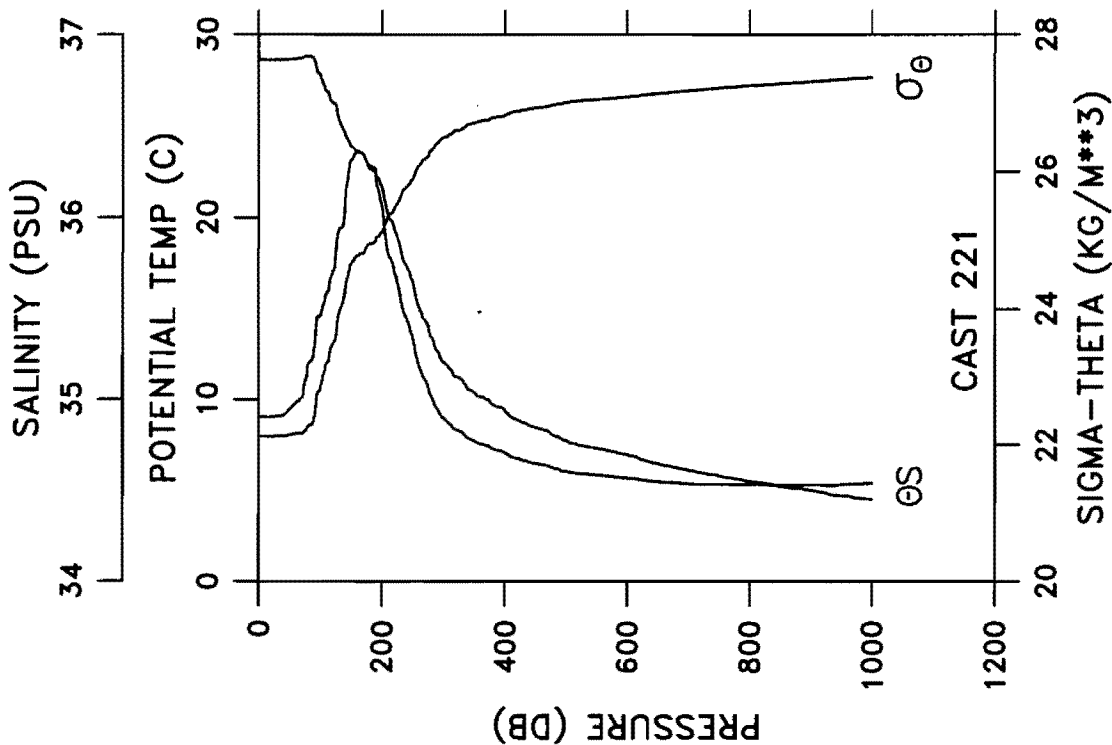


CAST GP4-99-KA-0212 DATE 14 AUG 99 TIME 0057 GMT
 LAT 08 01.35 LONG 164 51.7E WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 135 T SPD 11 KT VISIBILITY 7
 CLOUD 6 AMOUNT 2 DRY 28.5 WET 25.0 DEPTH 3895 M



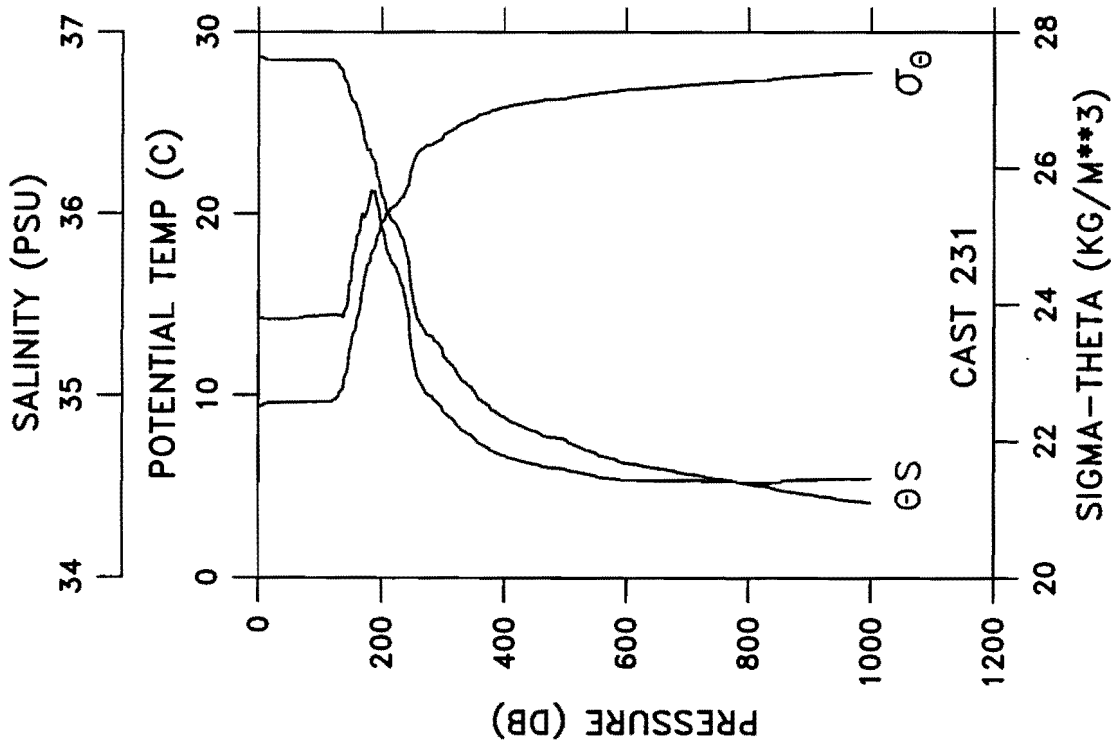
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.087	34.534	21.687	0.000
10	29.057	34.530	21.695	0.061
20	29.044	34.530	21.699	0.122
30	29.040	34.530	21.700	0.183
40	29.042	34.533	21.702	0.244
50	29.052	34.615	21.760	0.305
60	29.029	34.649	21.793	0.366
70	29.012	34.668	21.813	0.426
80	28.979	34.710	21.856	0.486
90	28.758	35.038	22.176	0.545
100	27.907	35.228	22.599	0.600
110	27.169	35.330	22.914	0.651
120	26.267	35.472	23.308	0.699
130	25.511	35.609	23.646	0.744
140	24.838	35.731	23.945	0.785
150	24.710	35.754	24.001	0.825
160	24.132	35.838	24.238	0.864
170	23.761	35.921	24.411	0.901
180	22.559	35.938	24.773	0.934
190	21.556	35.889	25.019	0.966
200	19.857	35.746	25.370	0.994
250	15.433	35.259	26.076	1.111
300	12.763	34.987	26.430	1.203
350	10.826	34.817	26.665	1.280
400	9.282	34.698	26.837	1.349
450	8.513	34.645	26.917	1.411
500	7.941	34.605	26.972	1.471
550	7.129	34.560	27.054	1.527
600	6.530	34.536	27.117	1.580
650	6.390	34.531	27.132	1.631
700	5.932	34.517	27.180	1.681
750	5.548	34.513	27.224	1.729
800	5.244	34.513	27.261	1.775
900	4.570	34.516	27.340	1.861
1000	4.204	34.534	27.394	1.942
1500	2.827	34.589	27.572	2.285
2000	2.070	34.635	27.674	2.566
2500	1.737	34.657	27.717	2.814
3000	1.505	34.669	27.744	3.051
3500	1.300	34.680	27.768	3.282
3704	1.240	34.683	27.775	3.374

CAST GP4-99-KA-0221 DATE 17 AUG 99 TIME 2118 GMT
 LAT 07 57.8S LONG 179 51.3W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 080 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 24.9 DEPTH 5521 M



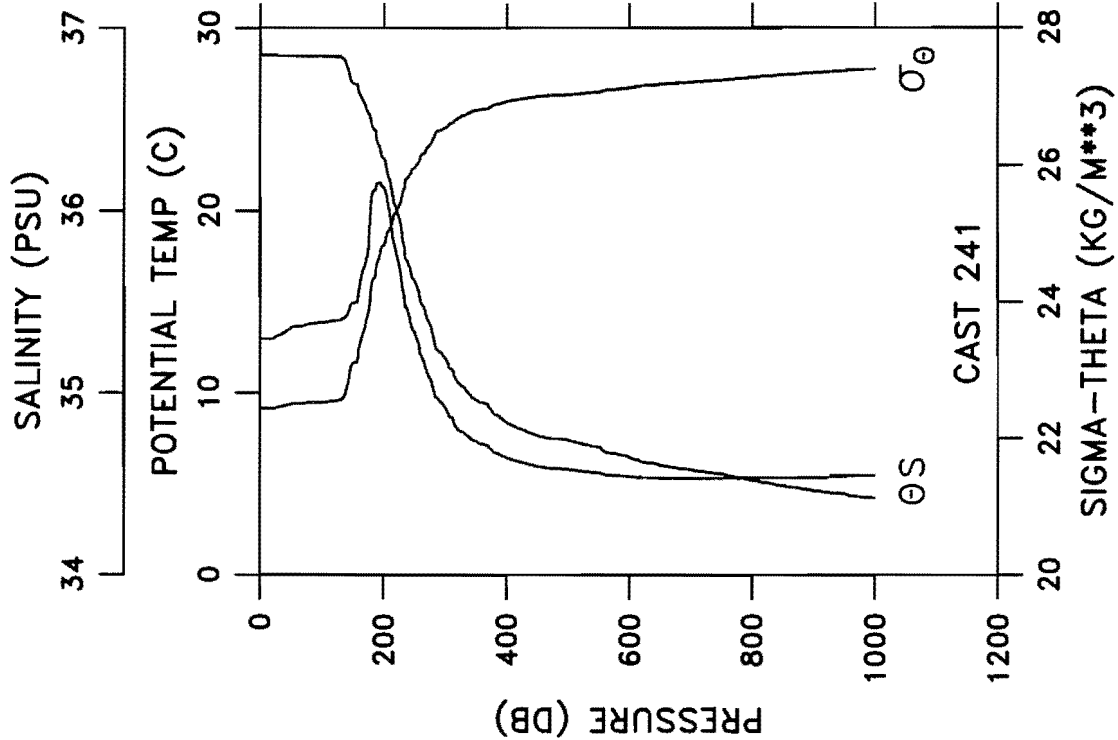
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.610	34.906	22.125	0.000
10	28.604	34.905	22.127	0.057
20	28.601	34.905	22.128	0.114
30	28.605	34.911	22.131	0.171
40	28.607	34.912	22.131	0.228
50	28.636	34.946	22.147	0.285
60	28.666	34.983	22.165	0.342
70	28.707	35.009	22.170	0.399
80	28.812	35.196	22.276	0.455
90	28.626	35.278	22.400	0.511
100	27.788	35.461	22.813	0.563
110	26.887	35.587	23.199	0.612
120	26.249	35.707	23.491	0.658
130	25.379	35.928	23.928	0.701
140	24.629	36.065	24.261	0.740
150	23.921	36.314	24.661	0.775
160	23.642	36.357	24.777	0.807
170	23.475	36.343	24.816	0.839
180	22.820	36.268	24.949	0.871
190	22.478	36.207	25.001	0.901
200	21.658	36.061	25.122	0.931
250	16.511	35.340	25.892	1.057
300	12.046	34.898	26.501	1.149
350	10.390	34.774	26.708	1.224
400	9.425	34.709	26.821	1.292
450	8.474	34.648	26.926	1.354
500	7.745	34.602	27.000	1.413
550	7.299	34.583	27.049	1.469
600	6.956	34.566	27.083	1.523
650	6.452	34.547	27.136	1.575
700	6.087	34.536	27.175	1.625
750	5.779	34.533	27.212	1.673
800	5.475	34.532	27.248	1.720
900	5.009	34.533	27.304	1.810
1000	4.494	34.539	27.367	1.894
1002	4.483	34.538	27.368	1.895

CAST GP4-99-KA-0231 DATE 18 AUG 99 TIME 0347 GMT
 LAT 06 59.8S LONG 179 51.4W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 084 T SPD 13 KT VISIBILITY 7
 CLOUD 3 AMOUNT 2 DRY 28.5 WET 25.3 DEPTH 5284 M



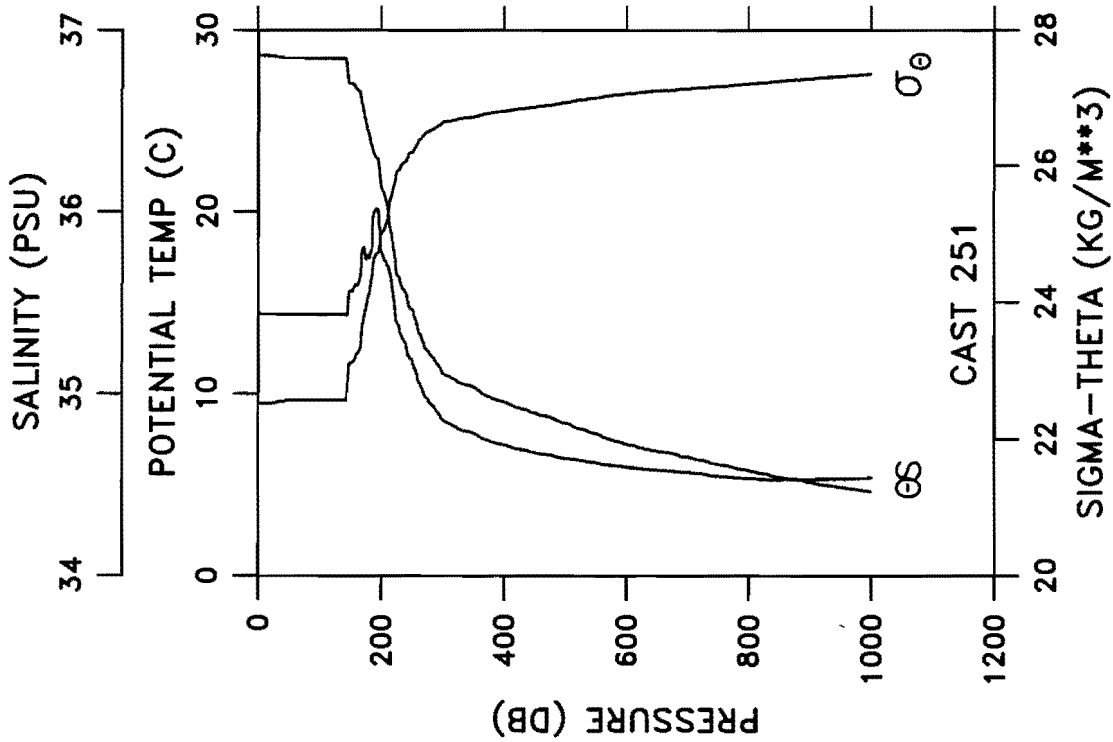
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.618	35.423	22.511	0.000
10	28.499	35.420	22.549	0.053
20	28.478	35.419	22.554	0.106
30	28.467	35.419	22.558	0.159
40	28.460	35.419	22.561	0.212
50	28.457	35.420	22.562	0.265
60	28.457	35.421	22.564	0.318
70	28.459	35.426	22.566	0.371
80	28.457	35.433	22.572	0.424
90	28.454	35.434	22.574	0.477
100	28.451	35.436	22.576	0.530
110	28.444	35.438	22.580	0.583
120	28.427	35.439	22.587	0.636
130	28.160	35.436	22.672	0.689
140	27.369	35.463	22.950	0.740
150	26.407	35.630	23.383	0.788
160	25.687	35.881	23.797	0.832
170	24.416	35.991	24.269	0.872
180	23.487	36.076	24.610	0.907
190	22.520	36.090	24.900	0.939
200	20.954	35.913	25.203	0.969
250	15.448	35.223	26.045	1.096
300	12.209	34.912	26.481	1.185
350	10.254	34.769	26.728	1.260
400	8.810	34.670	26.890	1.325
450	8.045	34.623	26.971	1.384
500	7.543	34.594	27.022	1.441
550	6.840	34.558	27.093	1.495
600	6.276	34.537	27.152	1.546
650	6.004	34.533	27.184	1.595
700	5.700	34.535	27.223	1.643
750	5.423	34.529	27.252	1.689
800	5.142	34.522	27.280	1.733
900	4.599	34.537	27.354	1.818
1000	4.152	34.546	27.409	1.896
1003	4.145	34.545	27.410	1.899

CAST GP4-99-KA-0241 DATE 18 AUG 99 TIME 1032 GMT
 LAT 05 59.9S LONG 179 52.8W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 100 T SPD 16 KT VISIBILITY 7
 CLOUD 7 AMOUNT 6 DRY 28.1 WET 25.0 DEPTH 5088 M



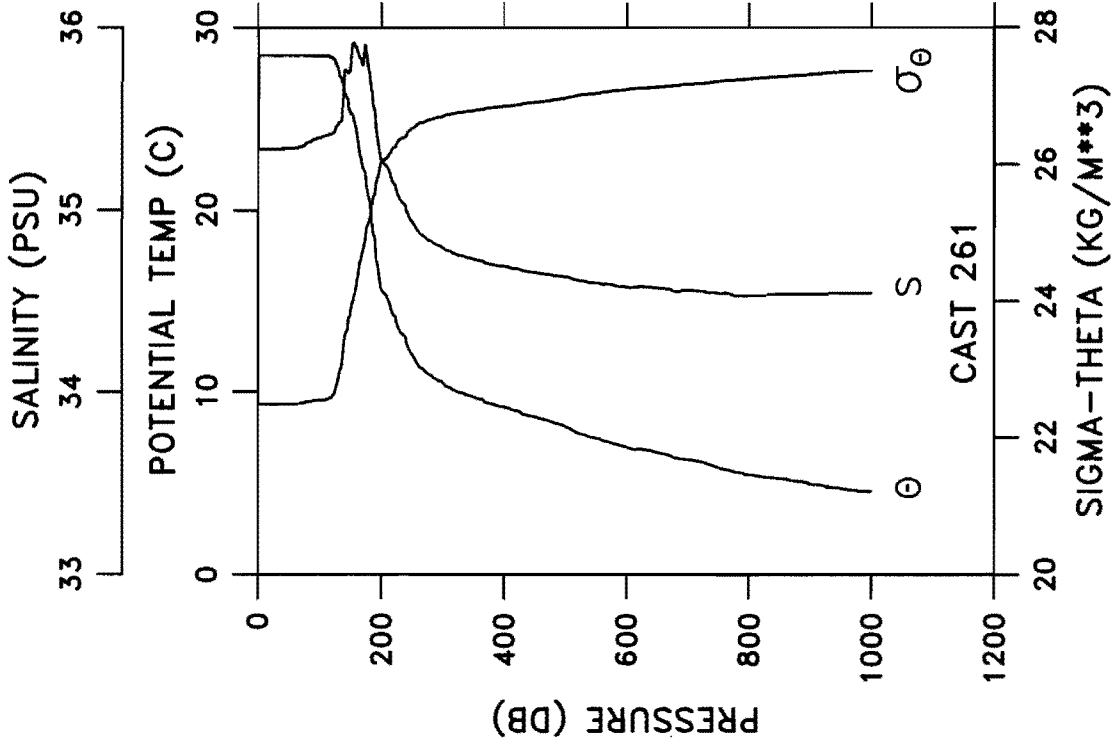
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.542	35.298	22.442	0.000
10	28.538	35.297	22.443	0.054
20	28.543	35.296	22.441	0.108
30	28.515	35.317	22.466	0.162
40	28.498	35.333	22.484	0.216
50	28.485	35.357	22.506	0.269
60	28.476	35.365	22.515	0.323
70	28.472	35.369	22.519	0.376
80	28.466	35.378	22.528	0.430
90	28.472	35.383	22.530	0.483
100	28.468	35.386	22.533	0.537
110	28.457	35.391	22.540	0.590
120	28.436	35.397	22.552	0.643
130	28.406	35.401	22.565	0.697
140	27.963	35.424	22.728	0.750
150	26.994	35.495	23.094	0.800
160	26.467	35.562	23.313	0.848
170	25.793	36.074	23.631	0.892
180	24.781	36.071	24.220	0.933
190	23.736	36.149	24.591	0.970
200	22.848	36.127	24.835	1.003
250	16.180	35.334	25.964	1.133
300	11.898	34.922	26.549	1.223
350	9.636	34.732	26.805	1.294
400	8.395	34.643	26.934	1.357
450	7.648	34.595	27.008	1.414
500	7.387	34.579	27.033	1.470
550	7.014	34.561	27.071	1.524
600	6.438	34.540	27.132	1.576
650	5.990	34.531	27.184	1.626
700	5.770	34.531	27.211	1.673
750	5.545	34.531	27.239	1.720
800	5.189	34.533	27.283	1.765
900	4.618	34.534	27.349	1.850
1000	4.222	34.547	27.403	1.929
1001	4.224	34.547	27.402	1.930

CAST GP4-99-KA-0251 DATE 19 AUG 99 TIME 0506 GMT
 LAT 04 57.8S LONG 179 55.0W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 060 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 28.9 WET 25.7 DEPTH 5627 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.611	35.439	22.526	0.000
10	28.621	35.437	22.521	0.053
20	28.613	35.436	22.523	0.106
30	28.557	35.434	22.540	0.159
40	28.517	35.433	22.552	0.213
50	28.500	35.432	22.557	0.266
60	28.492	35.432	22.560	0.319
70	28.485	35.432	22.562	0.372
80	28.474	35.432	22.566	0.425
90	28.468	35.433	22.568	0.478
100	28.463	35.433	22.570	0.531
110	28.460	35.433	22.571	0.584
120	28.456	35.433	22.573	0.637
130	28.452	35.433	22.574	0.691
140	28.445	35.433	22.576	0.744
150	27.080	35.560	23.116	0.795
160	26.766	35.593	23.241	0.842
170	25.785	35.801	23.707	0.888
180	24.238	35.745	24.136	0.928
190	23.033	36.011	24.692	0.964
200	21.278	35.772	25.007	0.996
250	14.604	35.183	26.200	1.112
300	11.088	34.856	26.648	1.194
350	10.369	34.785	26.721	1.265
400	9.540	34.720	26.811	1.332
450	8.967	34.677	26.871	1.397
500	8.396	34.643	26.934	1.458
550	7.822	34.620	27.002	1.517
600	7.234	34.597	27.069	1.573
650	6.840	34.580	27.110	1.626
700	6.519	34.568	27.144	1.678
750	6.102	34.545	27.181	1.728
800	5.758	34.534	27.215	1.777
900	5.125	34.529	27.287	1.869
1000	4.622	34.538	27.352	1.955
1500	2.876	34.597	27.574	2.306
2000	2.114	34.638	27.673	2.587
2500	1.691	34.661	27.724	2.835
3000	1.444	34.674	27.753	3.068
3500	1.249	34.684	27.774	3.292
4000	1.121	34.691	27.789	3.511
4033	1.115	34.690	27.789	3.526

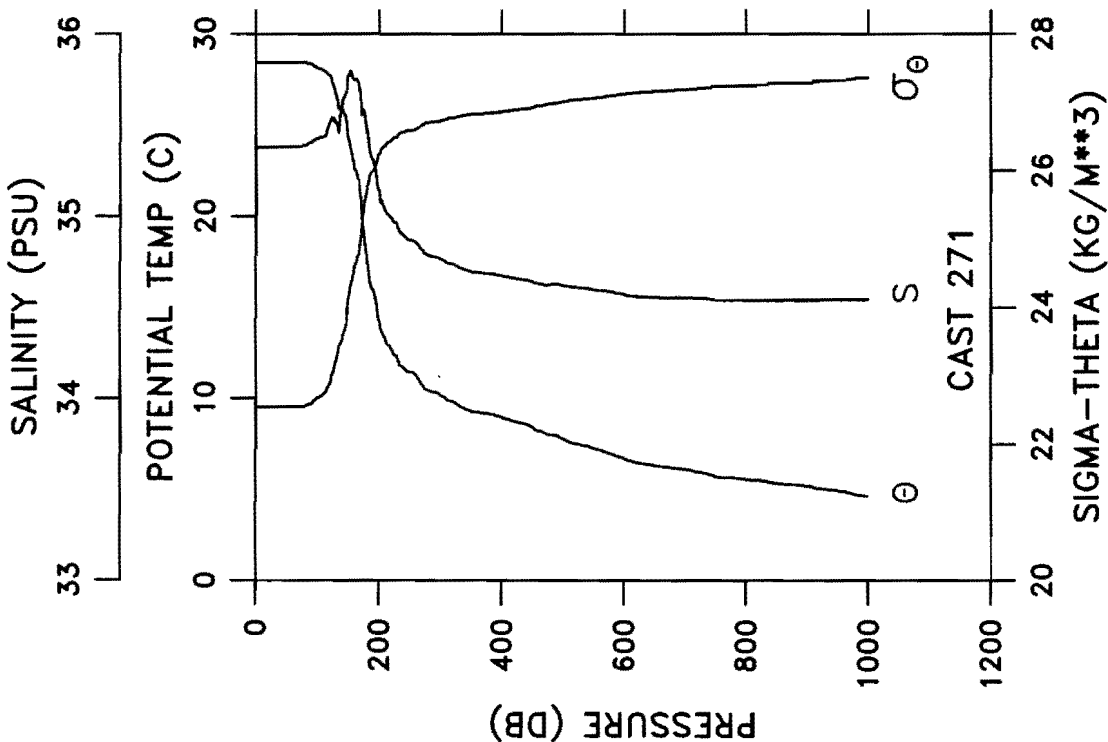
CAST GP4-99-KA-0261 DATE 19 AUG 99 TIME 1325 GMT
 LAT 03 59.6S LONG 179 54.4W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 081 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.6 WET 24.4 DEPTH 5848 M



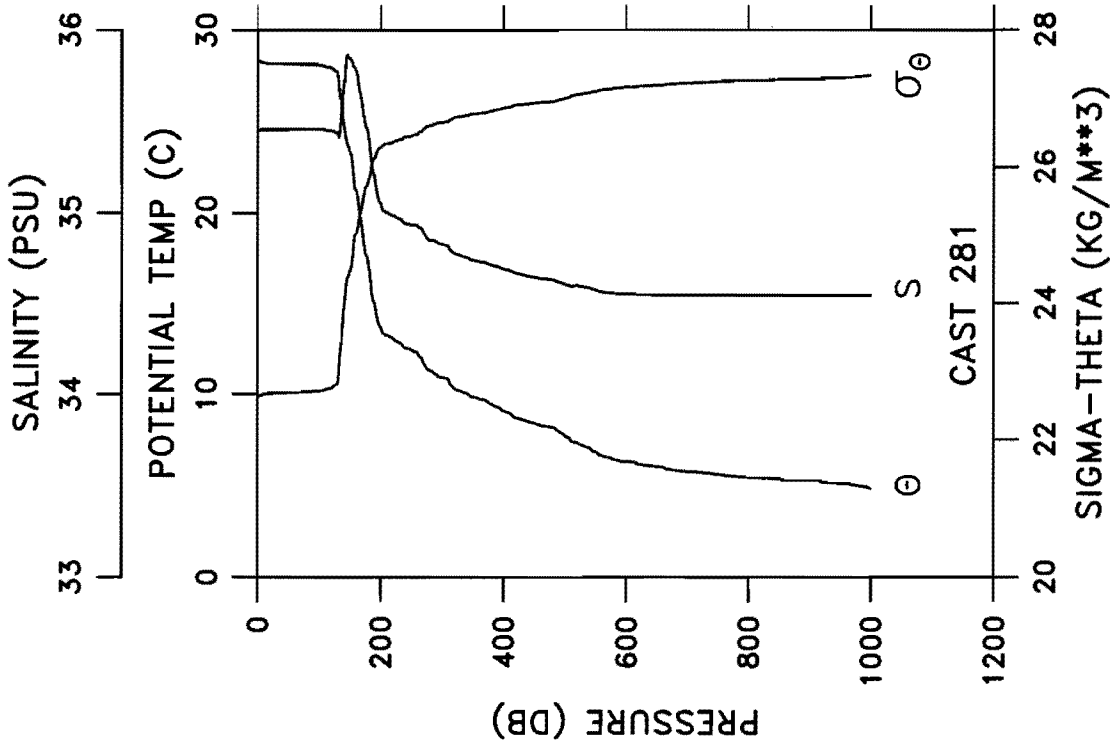
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.486	35.337	22.491	0.000
10	28.491	35.335	22.487	0.053
20	28.498	35.334	22.484	0.107
30	28.499	35.335	22.485	0.161
40	28.498	35.337	22.486	0.214
50	28.497	35.338	22.487	0.268
60	28.495	35.341	22.491	0.322
70	28.486	35.351	22.501	0.375
80	28.476	35.370	22.519	0.429
90	28.459	35.387	22.537	0.482
100	28.454	35.398	22.547	0.536
110	28.462	35.410	22.553	0.589
120	28.369	35.417	22.589	0.642
130	27.671	35.473	22.859	0.694
140	26.395	35.764	23.488	0.743
150	25.278	35.797	23.860	0.786
160	24.101	35.884	24.282	0.825
170	22.276	35.798	24.748	0.859
180	20.607	35.755	25.177	0.890
190	18.086	35.495	25.631	0.916
200	15.622	35.272	26.044	0.938
250	12.061	34.940	26.531	1.027
300	10.505	34.796	26.705	1.100
350	9.734	34.733	26.789	1.168
400	9.180	34.693	26.849	1.233
450	8.630	34.659	26.910	1.296
500	8.112	34.635	26.970	1.356
550	7.460	34.599	27.039	1.412
600	6.950	34.578	27.093	1.466
650	6.658	34.573	27.129	1.518
700	6.263	34.561	27.172	1.569
750	5.825	34.544	27.215	1.618
800	5.435	34.533	27.254	1.664
850	4.934	34.539	27.318	1.753
900	4.533	34.545	27.367	1.836
1000	4.532	34.545	27.368	1.836

CAST GP4-99-KA-0271 DATE 19 AUG 99 TIME 2000 GMT
 LAT 03 00.05 LONG 179 54.4W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 051 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 24.5 DEPTH 5272 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.433	35.377	22.538	0.000
10	28.436	35.382	22.540	0.053
20	28.436	35.382	22.541	0.106
30	28.436	35.381	22.540	0.159
40	28.432	35.382	22.542	0.212
50	28.430	35.383	22.543	0.265
60	28.430	35.382	22.543	0.319
70	28.430	35.382	22.543	0.372
80	28.397	35.390	22.560	0.425
90	28.352	35.408	22.588	0.478
100	28.122	35.428	22.679	0.530
110	27.980	35.438	22.733	0.582
120	27.711	35.515	22.879	0.633
130	26.669	35.513	23.212	0.682
140	25.938	35.614	23.518	0.728
150	24.296	35.773	24.140	0.770
160	22.670	35.747	24.597	0.806
170	21.087	35.674	24.984	0.838
180	17.769	35.460	25.682	0.865
190	15.951	35.312	26.000	0.886
200	14.250	35.145	26.247	0.906
250	11.447	34.871	26.593	0.986
300	10.202	34.766	26.735	1.058
350	9.314	34.696	26.830	1.124
400	9.000	34.676	26.864	1.188
450	8.466	34.644	26.924	1.249
500	7.798	34.621	27.007	1.308
550	7.275	34.596	27.062	1.363
600	6.703	34.571	27.122	1.416
650	6.320	34.556	27.161	1.466
700	6.111	34.555	27.187	1.515
750	5.698	34.542	27.229	1.563
800	5.542	34.541	27.247	1.610
900	5.163	34.541	27.292	1.700
1000	4.623	34.544	27.356	1.786
1007	4.591	34.544	27.360	1.791

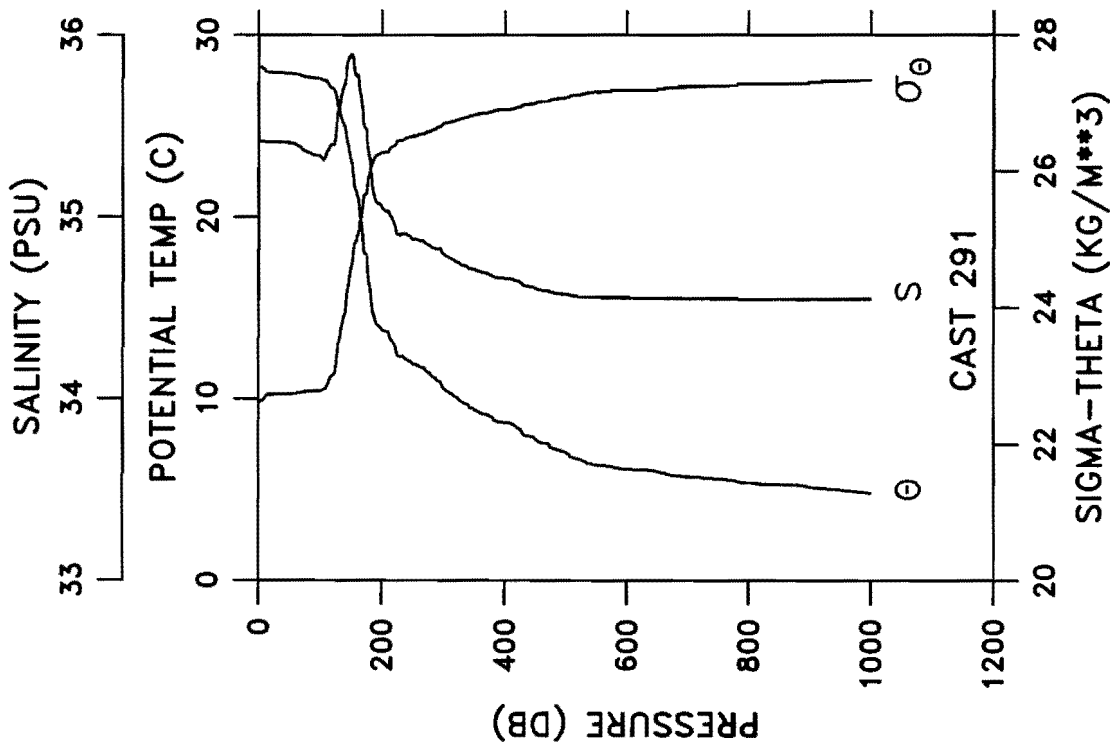


CAST GP4-99-KA-0281 DATE 19 AUG 99 TIME 2351 GMT
 LAT 02 29.7S LONG 179 54.5W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 086 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.8 WET 24.9 DEPTH 5402 M



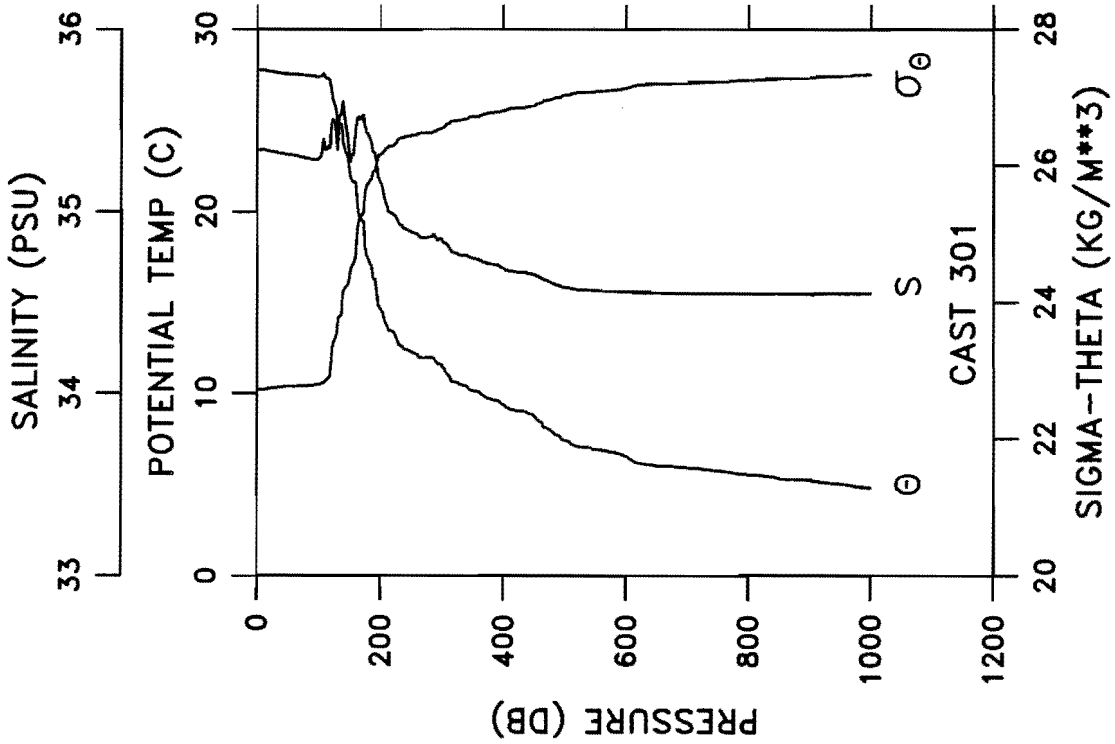
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.278	35.452	22.646	0.000
10	28.212	35.453	22.668	0.052
20	28.183	35.454	22.678	0.104
30	28.175	35.454	22.681	0.155
40	28.168	35.455	22.684	0.207
50	28.152	35.456	22.690	0.259
60	28.142	35.457	22.694	0.311
70	28.126	35.458	22.700	0.362
80	28.113	35.459	22.705	0.414
90	28.099	35.460	22.710	0.466
100	28.082	35.459	22.715	0.518
110	27.991	35.452	22.739	0.569
120	27.930	35.449	22.757	0.621
130	27.615	35.430	22.846	0.672
140	24.785	35.702	23.939	0.718
150	23.344	35.846	24.477	0.755
160	21.212	35.778	25.030	0.787
170	19.061	35.586	25.455	0.815
180	17.068	35.413	25.816	0.839
190	14.961	35.193	26.130	0.859
200	13.681	35.047	26.291	0.878
250	12.427	34.932	26.454	0.962
300	10.926	34.827	26.655	1.039
350	9.840	34.738	26.775	1.108
400	9.090	34.689	26.860	1.173
450	8.415	34.644	26.931	1.235
500	7.710	34.605	27.006	1.294
550	6.831	34.574	27.107	1.348
600	6.293	34.551	27.161	1.398
650	6.024	34.546	27.191	1.447
700	5.759	34.541	27.220	1.494
750	5.603	34.543	27.241	1.540
800	5.446	34.544	27.261	1.586
900	5.257	34.544	27.284	1.676
1000	4.790	34.545	27.339	1.764
1006	4.747	34.545	27.344	1.769

CAST GP4-99-KA-0291 DATE 20 AUG 99 TIME 0510 GMT
 LAT 01 57.05 LONG 179 54.6W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 062 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.4 WET 24.7 DEPTH 5327 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.240	35.417	22.632	0.000
10	28.066	35.413	22.686	0.052
20	27.940	35.412	22.726	0.103
30	27.920	35.411	22.732	0.155
40	27.906	35.410	22.736	0.206
50	27.890	35.407	22.739	0.257
60	27.848	35.397	22.745	0.308
70	27.749	35.372	22.758	0.360
80	27.672	35.354	22.770	0.411
90	27.618	35.338	22.775	0.462
100	27.584	35.334	22.783	0.513
110	27.456	35.349	22.836	0.564
120	27.034	35.394	23.006	0.614
130	25.924	35.583	23.499	0.661
140	24.952	35.729	23.909	0.703
150	23.075	35.890	24.589	0.740
160	21.144	35.775	25.046	0.771
170	18.310	35.520	25.595	0.799
180	16.152	35.322	25.961	0.822
190	14.164	35.088	26.222	0.841
200	13.777	35.053	26.275	0.860
250	11.879	34.872	26.514	0.943
300	10.558	34.794	26.694	1.019
350	9.439	34.709	26.819	1.087
400	8.717	34.680	26.897	1.150
450	7.785	34.605	26.994	1.209
500	7.063	34.572	27.073	1.264
550	6.351	34.557	27.158	1.315
600	6.144	34.553	27.181	1.363
650	5.996	34.552	27.199	1.411
700	5.722	34.550	27.232	1.458
750	5.599	34.548	27.245	1.504
800	5.383	34.545	27.270	1.549
900	5.130	34.546	27.301	1.638
1000	4.813	34.547	27.337	1.724
1500	3.001	34.599	27.565	2.084
2000	2.090	34.641	27.677	2.365
2500	1.739	34.658	27.718	2.613
3000	1.469	34.670	27.747	2.847
3500	1.242	34.683	27.774	3.072
4000	1.078	34.694	27.794	3.291
4005	1.077	34.692	27.793	3.293

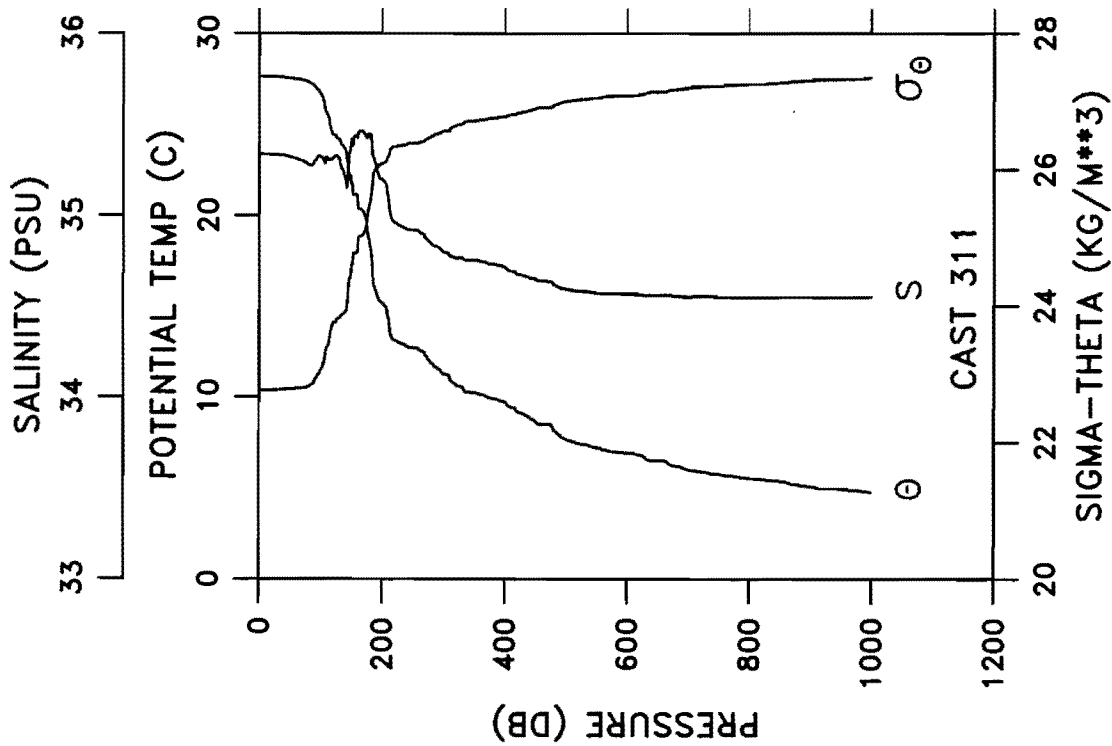
CAST GP4-99-KA-0301 DATE 20 AUG 99 TIME 0924 GMT
 LAT 01 29.9S LONG 179 54.3W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 065 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 27.2 WET 24.9 DEPTH 5231 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.774	35.340	22.726	0.000
10	27.774	35.340	22.727	0.051
20	27.697	35.332	22.745	0.102
30	27.662	35.328	22.754	0.153
40	27.596	35.320	22.769	0.204
50	27.566	35.313	22.773	0.255
60	27.547	35.308	22.776	0.306
70	27.517	35.301	22.780	0.357
80	27.485	35.292	22.784	0.408
90	27.442	35.287	22.794	0.459
100	27.404	35.290	22.808	0.510
110	27.377	35.339	22.854	0.561
120	26.801	35.458	23.128	0.611
130	24.881	35.339	23.635	0.656
140	23.631	35.559	24.176	0.697
150	22.120	35.276	24.396	0.734
160	21.404	35.464	24.738	0.768
170	19.498	35.521	25.292	0.797
180	17.372	35.420	25.748	0.822
190	16.270	35.322	25.934	0.844
200	14.630	35.156	26.174	0.864
250	12.314	34.888	26.443	0.951
300	11.558	34.846	26.554	1.031
350	10.159	34.743	26.724	1.104
400	9.394	34.688	26.810	1.171
450	8.773	34.653	26.883	1.235
500	7.404	34.584	27.034	1.294
550	6.915	34.566	27.089	1.347
600	6.532	34.559	27.135	1.399
650	6.001	34.552	27.199	1.448
700	5.900	34.550	27.210	1.496
750	5.742	34.550	27.230	1.543
800	5.521	34.549	27.256	1.589
900	5.218	34.546	27.290	1.679
1000	4.811	34.548	27.338	1.765
1005	4.803	34.547	27.338	1.770

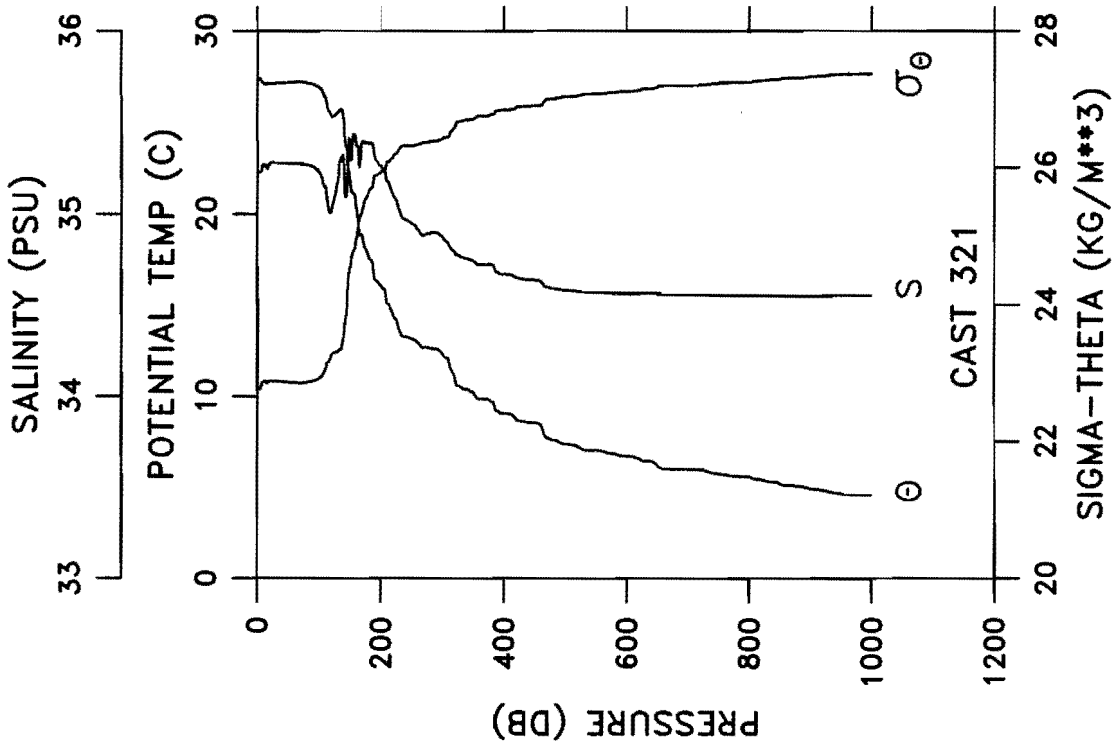
CAST GP4-99-KA-0311 DATE 20 AUG 99 TIME 1309 GMT
 LAT 00 59.8S LONG 179 54.7W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 094 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.7 WET 24.3 DEPTH 5347 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.645	35.339	22.767	0.000
10	27.637	35.335	22.767	0.051
20	27.633	35.335	22.768	0.102
30	27.616	35.333	22.772	0.153
40	27.600	35.331	22.776	0.203
50	27.540	35.321	22.787	0.254
60	27.503	35.311	22.792	0.305
70	27.449	35.298	22.800	0.356
80	27.330	35.278	22.823	0.407
90	27.102	35.297	22.911	0.457
100	26.665	35.321	23.069	0.506
110	25.578	35.312	23.401	0.553
120	24.412	35.316	23.760	0.597
130	24.157	35.308	23.830	0.638
140	23.573	35.197	23.918	0.679
150	21.754	35.422	24.608	0.716
160	20.761	35.424	24.883	0.749
170	20.094	35.451	25.083	0.778
180	18.294	35.436	25.534	0.806
190	15.750	35.269	26.012	0.828
200	15.167	35.198	26.089	0.848
250	12.728	34.920	26.386	0.937
300	11.272	34.798	26.569	1.018
350	10.268	34.755	26.715	1.091
400	9.716	34.714	26.777	1.159
450	8.669	34.649	26.896	1.224
500	7.657	34.593	27.005	1.284
550	7.218	34.574	27.053	1.339
600	6.929	34.567	27.088	1.393
650	6.495	34.560	27.141	1.445
700	5.973	34.551	27.202	1.494
750	5.733	34.550	27.231	1.541
800	5.493	34.548	27.258	1.587
900	5.058	34.549	27.311	1.677
1000	4.716	34.552	27.352	1.762
1007	4.699	34.551	27.354	1.767



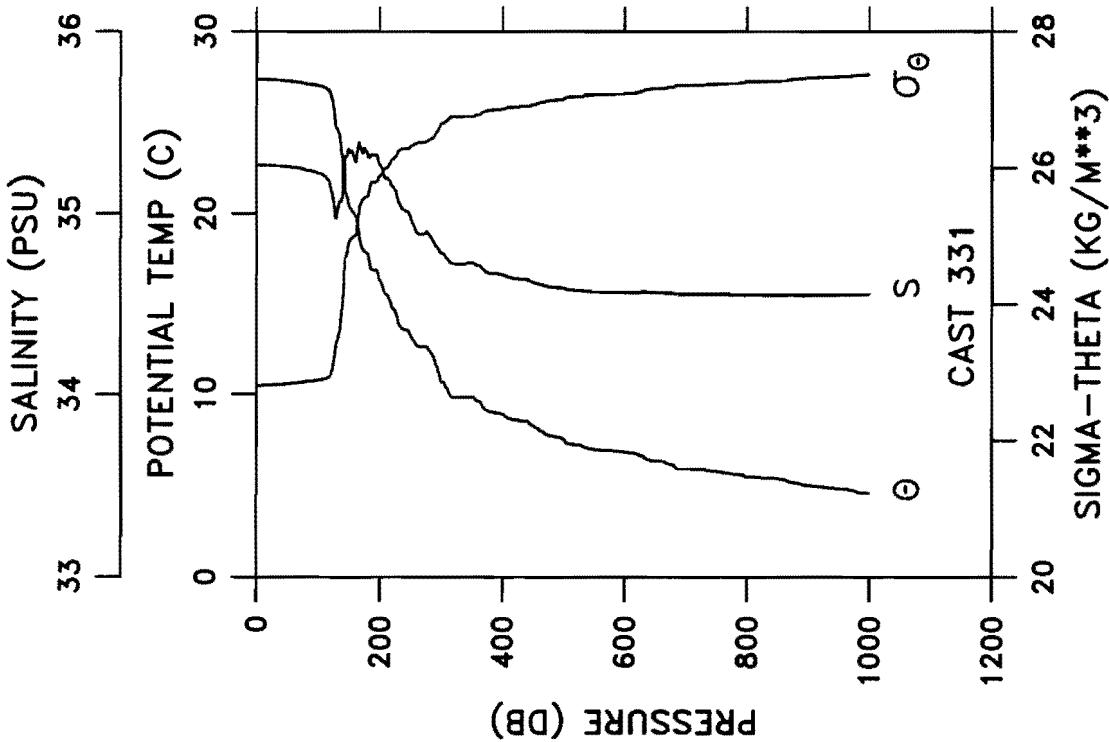
CAST GP4-99-KA-0321 DATE 20 AUG 99 TIME 1706 GMT
 LAT 00 29.8S LONG 179 54.3W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 090 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.8 WET 24.0 DEPTH 4843 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.373	35.228	22.772	0.000
10	27.136	35.263	22.874	0.050
20	27.121	35.277	22.890	0.100
30	27.144	35.279	22.883	0.150
40	27.163	35.277	22.876	0.200
50	27.181	35.275	22.869	0.250
60	27.199	35.273	22.861	0.300
70	27.218	35.271	22.854	0.350
80	27.160	35.265	22.868	0.400
90	27.082	35.256	22.887	0.451
100	26.887	35.224	22.925	0.500
110	26.299	35.151	23.055	0.550
120	25.308	35.023	23.266	0.597
130	25.546	35.181	23.313	0.644
140	24.940	35.244	23.546	0.689
150	21.783	35.339	24.538	0.728
160	20.324	35.386	24.971	0.761
170	18.747	35.397	25.390	0.789
180	17.644	35.380	25.651	0.814
190	16.397	35.303	25.890	0.837
200	16.076	35.260	25.931	0.858
250	13.141	34.948	26.325	0.952
300	12.360	34.875	26.423	1.038
350	10.238	34.743	26.710	1.113
400	9.053	34.669	26.851	1.180
450	8.549	34.637	26.906	1.243
500	7.358	34.581	27.039	1.300
550	7.005	34.570	27.079	1.354
600	6.676	34.561	27.117	1.406
650	6.190	34.562	27.182	1.457
700	5.956	34.556	27.208	1.505
750	5.710	34.553	27.236	1.552
800	5.549	34.550	27.254	1.598
900	4.899	34.550	27.330	1.685
1000	4.566	34.554	27.370	1.767
1001	4.566	34.554	27.370	1.768



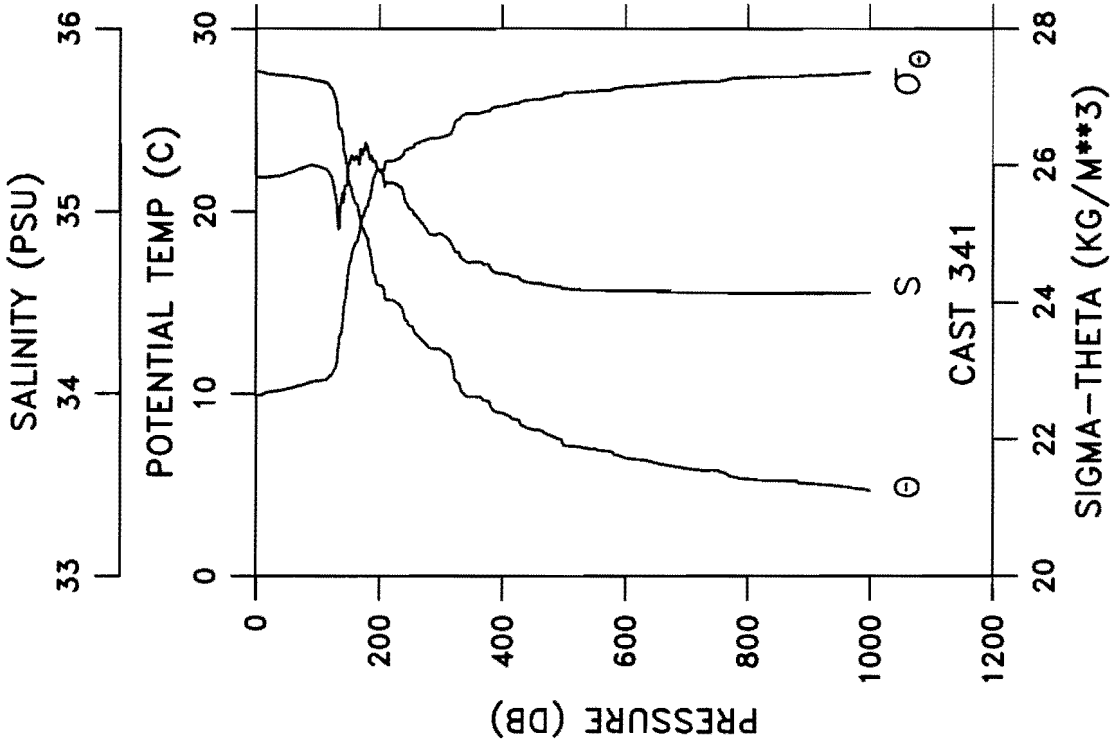
CAST GP4-99-KA-0331 DATE 20 AUG 99 TIME 2250 GMT
 LAT 00 02.8N LONG 179 55.2W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 098 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 28.3 WET 24.5 DEPTH 5384 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.395	35.268	22.795	0.000
10	27.377	35.266	22.799	0.051
20	27.358	35.265	22.805	0.101
30	27.330	35.263	22.812	0.152
40	27.328	35.263	22.813	0.202
50	27.277	35.258	22.826	0.253
60	27.237	35.254	22.835	0.303
70	27.207	35.250	22.842	0.353
80	27.122	35.238	22.860	0.404
90	27.087	35.233	22.867	0.454
100	27.016	35.221	22.881	0.504
110	26.925	35.206	22.899	0.554
120	26.553	35.136	22.964	0.604
130	24.675	35.008	23.448	0.652
140	22.683	35.124	24.120	0.694
150	20.418	35.346	24.916	0.727
160	19.884	35.286	25.011	0.758
170	18.179	35.348	25.496	0.785
180	17.773	35.327	25.579	0.810
190	16.881	35.323	25.791	0.833
200	16.299	35.267	25.885	0.856
250	13.250	34.972	26.322	0.952
300	10.706	34.782	26.659	1.035
350	9.873	34.730	26.763	1.104
400	8.946	34.662	26.862	1.168
450	8.320	34.621	26.928	1.230
500	7.599	34.588	27.016	1.288
550	7.002	34.568	27.079	1.342
600	6.860	34.565	27.096	1.395
650	6.346	34.564	27.164	1.446
700	5.930	34.556	27.211	1.495
750	5.778	34.553	27.228	1.542
800	5.464	34.550	27.264	1.588
900	4.989	34.549	27.319	1.677
1000	4.584	34.554	27.369	1.761
1500	2.901	34.805	27.579	2.119
2000	2.067	34.643	27.680	2.395
2500	1.699	34.660	27.723	2.641
3000	1.459	34.671	27.749	2.873
3500	1.273	34.681	27.770	3.099
4000	1.101	34.692	27.791	3.320
4001	1.101	34.691	27.791	3.321



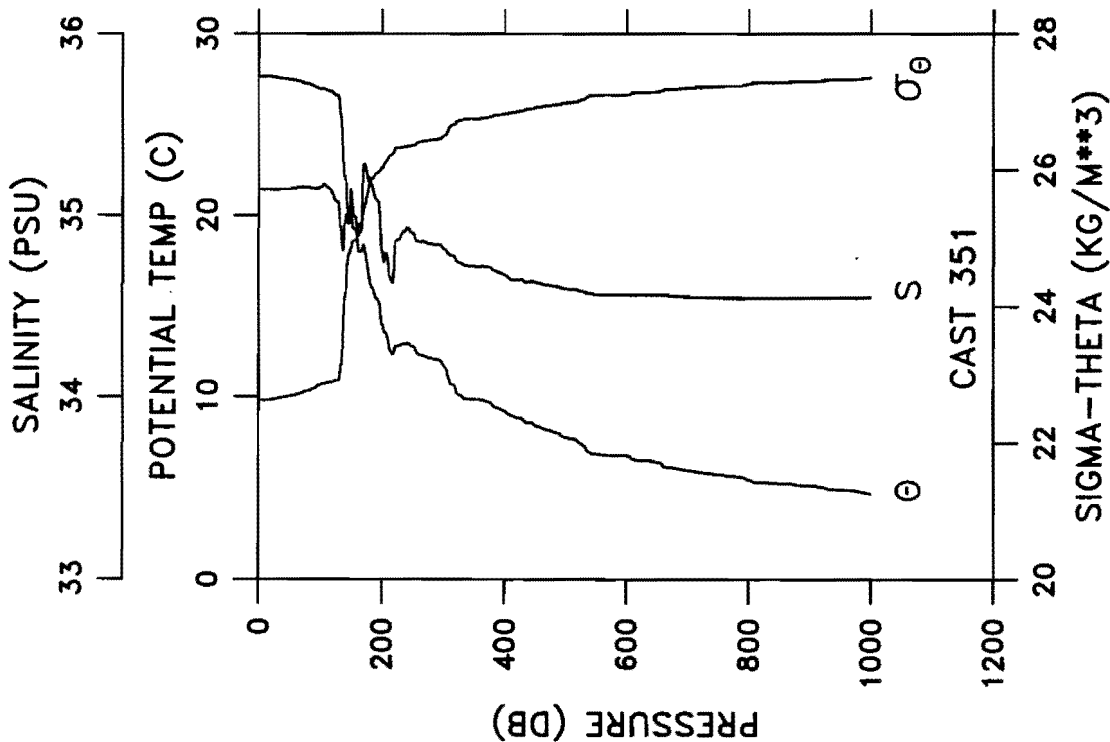
CAST GP4-99-KA-0341 DATE 21 AUG 99 TIME 0310 GMT
 LAT 00 30.1N LONG 179 55.6W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 097 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.4 WET 24.7 DEPTH 5757 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.656	35.186	22.649	0.000
10	27.625	35.186	22.659	0.052
20	27.511	35.187	22.697	0.104
30	27.486	35.191	22.708	0.155
40	27.459	35.196	22.720	0.207
50	27.411	35.207	22.744	0.258
60	27.378	35.216	22.761	0.309
70	27.327	35.233	22.790	0.360
80	27.285	35.243	22.811	0.411
90	27.204	35.252	22.844	0.462
100	27.130	35.244	22.862	0.512
110	27.066	35.233	22.874	0.562
120	26.804	35.198	22.931	0.612
130	25.955	35.040	23.080	0.662
140	24.083	35.070	23.671	0.707
150	21.718	35.261	24.487	0.745
160	20.464	35.284	24.856	0.778
170	19.313	35.326	25.191	0.809
180	18.567	35.356	25.404	0.836
190	16.587	35.272	25.822	0.860
200	15.943	35.218	25.929	0.882
250	13.716	35.013	26.257	0.981
300	12.421	34.874	26.411	1.068
350	9.857	34.722	26.759	1.143
400	8.939	34.659	26.861	1.209
450	8.037	34.606	26.959	1.270
500	7.164	34.578	27.063	1.327
550	6.976	34.568	27.082	1.360
600	6.472	34.564	27.147	1.432
650	6.209	34.561	27.179	1.482
700	5.895	34.555	27.214	1.530
750	5.797	34.552	27.224	1.577
800	5.329	34.548	27.279	1.622
900	5.064	34.549	27.310	1.710
1000	4.669	34.553	27.358	1.795
1004	4.619	34.555	27.365	1.798



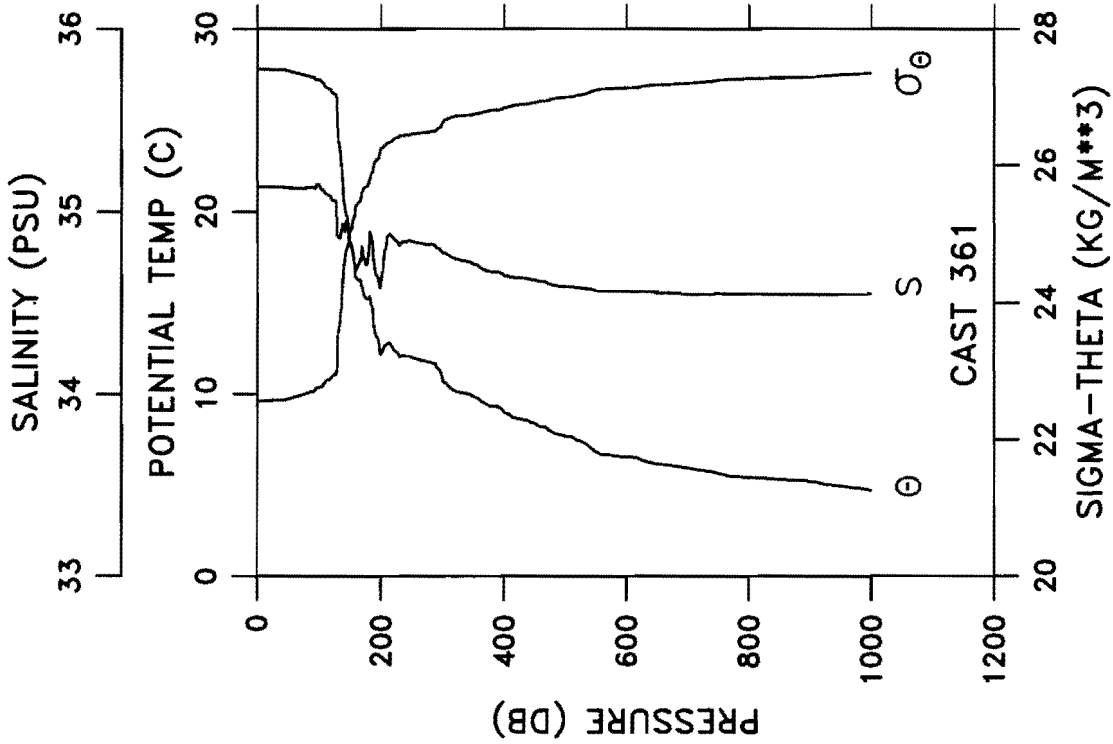
CAST GP4-99-KA-0351 DATE 21 AUG 99 TIME 0656 GMT
 LAT 00 59.9N LONG 179 55.5W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 095 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 28.5 WET 25.1 DEPTH 5803 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.653	35.146	22.619	0.000
10	27.654	35.144	22.618	0.052
20	27.638	35.144	22.623	0.104
30	27.579	35.144	22.642	0.157
40	27.520	35.146	22.662	0.209
50	27.480	35.148	22.677	0.261
60	27.428	35.152	22.697	0.312
70	27.344	35.153	22.725	0.364
80	27.245	35.154	22.757	0.415
90	27.132	35.148	22.789	0.467
100	26.973	35.152	22.843	0.517
110	26.905	35.160	22.871	0.568
120	26.761	35.120	22.886	0.618
130	26.513	35.049	22.912	0.668
140	22.106	34.958	24.158	0.713
150	20.066	35.143	24.855	0.747
160	18.612	34.891	25.037	0.778
170	18.358	35.278	25.397	0.806
180	16.423	35.208	25.811	0.830
190	15.450	35.094	25.945	0.852
200	14.002	34.805	26.037	0.873
250	12.774	34.900	26.361	0.963
300	11.744	34.817	26.496	1.046
350	9.884	34.718	26.752	1.117
400	9.234	34.672	26.824	1.184
450	8.454	34.631	26.916	1.247
500	7.812	34.596	26.984	1.307
550	6.872	34.567	27.096	1.362
600	6.787	34.563	27.104	1.414
650	6.424	34.564	27.153	1.465
700	5.981	34.553	27.202	1.514
750	5.747	34.547	27.227	1.561
800	5.454	34.546	27.262	1.608
900	5.152	34.547	27.299	1.696
1000	4.680	34.551	27.356	1.782
1003	4.629	34.552	27.363	1.784

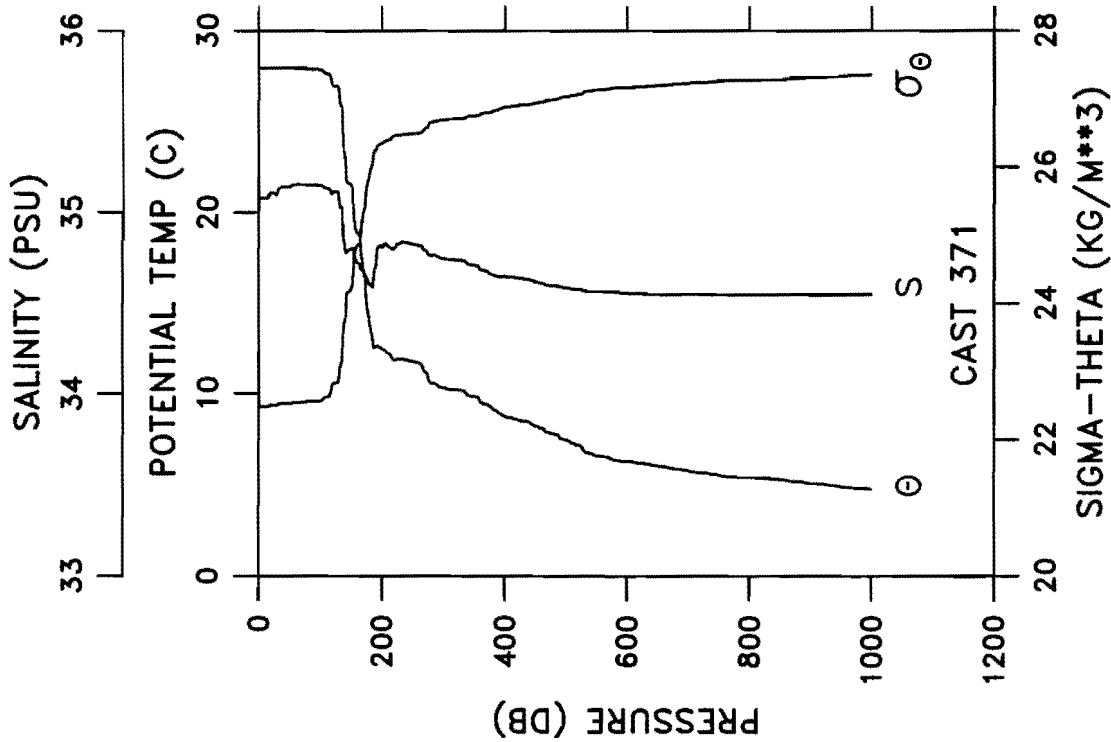


CAST GP4-99-KA-0361 DATE 21 AUG 99 TIME 1049 GMT
 LAT 01 30.0N LONG 179 55.7W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 093 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 27.4 WET 24.7 DEPTH 5354 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.797	35.136	22.566	0.000
10	27.787	35.136	22.568	0.053
20	27.781	35.135	22.570	0.105
30	27.756	35.134	22.577	0.158
40	27.754	35.134	22.578	0.211
50	27.689	35.131	22.597	0.264
60	27.592	35.128	22.626	0.316
70	27.503	35.127	22.654	0.369
80	27.421	35.131	22.683	0.421
90	27.356	35.133	22.706	0.472
100	27.182	35.142	22.768	0.524
110	26.823	35.099	22.851	0.575
120	26.528	35.067	22.920	0.625
130	24.160	34.873	23.500	0.674
140	20.533	34.900	24.545	0.715
150	18.363	34.817	25.043	0.746
160	16.345	34.683	25.426	0.774
170	15.862	34.794	25.621	0.800
180	15.235	34.764	25.739	0.823
190	13.495	34.687	26.050	0.845
200	12.201	34.615	26.252	0.864
250	10.866	34.838	26.458	0.949
300	9.900	34.772	26.623	1.029
350	9.026	34.715	26.747	1.098
400	8.433	34.651	26.841	1.165
450	7.699	34.626	26.915	1.227
500	6.824	34.589	26.996	1.286
550	6.561	34.568	27.103	1.341
600	6.171	34.563	27.134	1.392
650	5.948	34.556	27.180	1.442
700	5.635	34.548	27.202	1.490
750	5.410	34.552	27.244	1.537
800	5.185	34.549	27.270	1.582
900	4.729	34.545	27.293	1.672
1000	4.715	34.549	27.349	1.758
1002			27.350	1.759



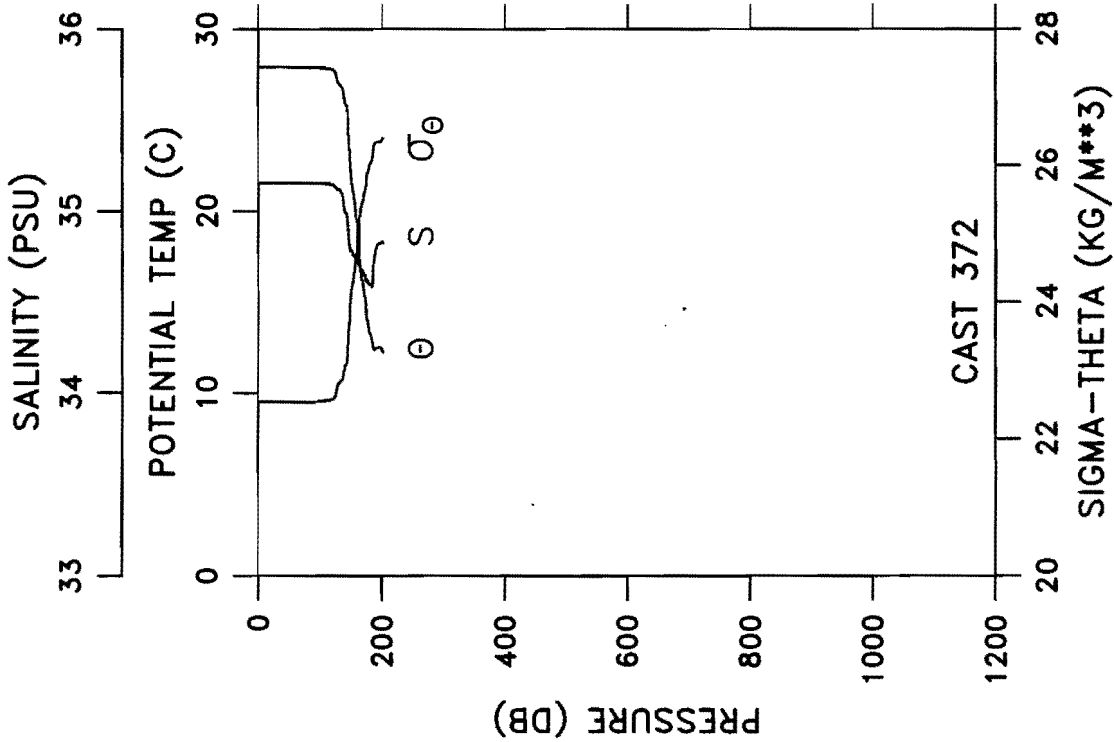
CAST GP4--99--KA--0371 DATE 21 AUG 99 TIME 1727 GMT
 LAT 02 01.5N LONG 179 44.3W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 095 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.0 WET 23.4 DEPTH 5319 M



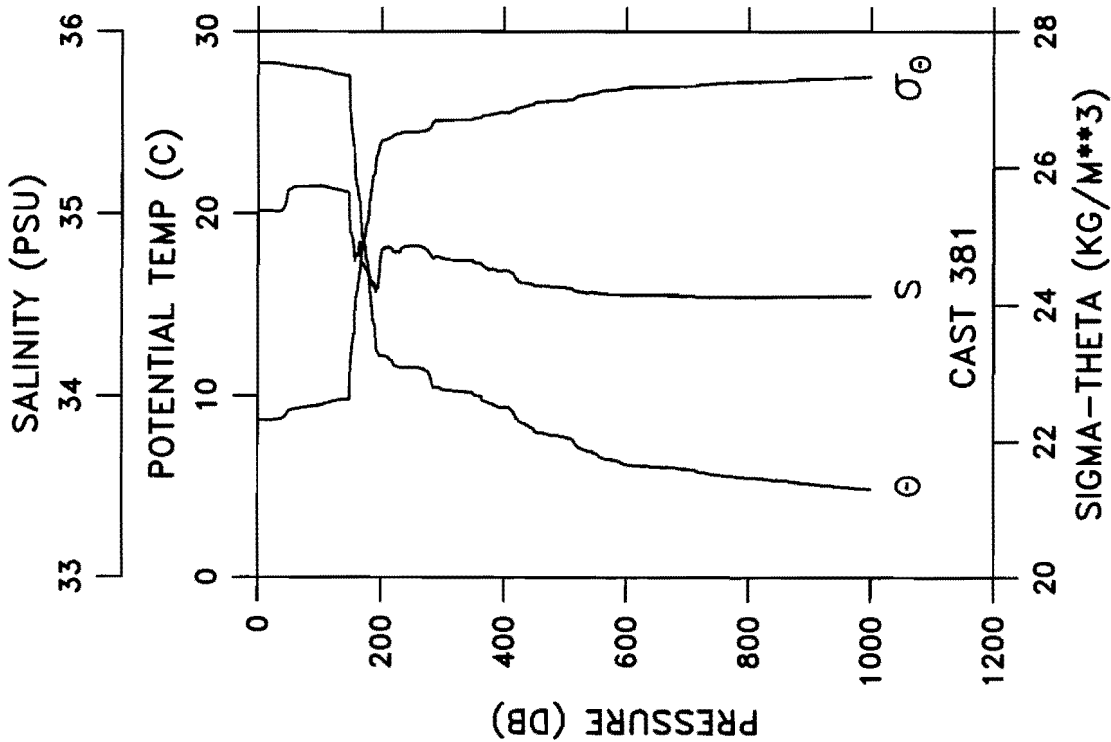
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.948	35.083	22.476	0.000
10	27.946	35.080	22.474	0.054
20	27.946	35.111	22.498	0.107
30	27.942	35.107	22.496	0.161
40	27.940	35.139	22.521	0.214
50	27.943	35.143	22.523	0.267
60	27.937	35.154	22.533	0.321
70	27.922	35.153	22.538	0.374
80	27.874	35.153	22.553	0.427
90	27.859	35.152	22.557	0.480
100	27.837	35.150	22.563	0.534
110	27.627	35.134	22.619	0.587
120	26.979	35.111	22.810	0.639
130	26.642	35.073	22.888	0.690
140	23.019	34.789	23.770	0.736
150	21.505	34.804	24.208	0.774
160	18.840	34.722	24.850	0.808
170	16.642	34.674	25.349	0.838
180	13.791	34.602	25.924	0.862
190	12.571	34.709	26.253	0.881
200	12.466	34.807	26.350	0.899
250	11.797	34.825	26.492	0.980
300	10.357	34.745	26.691	1.055
350	9.858	34.709	26.749	1.125
400	8.768	34.648	26.880	1.190
450	8.230	34.617	26.939	1.251
500	7.473	34.585	27.025	1.309
550	6.610	34.567	27.131	1.362
600	6.296	34.556	27.164	1.412
650	6.035	34.551	27.194	1.461
700	5.763	34.551	27.228	1.508
750	5.528	34.549	27.256	1.554
800	5.394	34.548	27.270	1.599
900	5.065	34.547	27.309	1.687
1000	4.741	34.551	27.349	1.772
1500	3.066	34.598	27.558	2.141
2000	2.118	34.638	27.672	2.423
2500	1.684	34.662	27.725	2.669
3000	1.460	34.671	27.749	2.902
3500	1.259	34.682	27.772	3.128
4000	1.104	34.691	27.790	3.348
4003	1.101	34.691	27.790	3.350

CAST GP4-99-KA-0372 DATE 21 AUG 99 TIME 2210 GMT
 LAT 02 01.7N LONG 179 49.2W WEATHER 1 SEA STATE 5
 BAROMETER 12 WIND DIR 097 T SPD 22 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 29.0 WET 25.9 DEPTH 5470 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.944	35.157	22.534	0.000
10	27.938	35.155	22.534	0.053
20	27.939	35.155	22.534	0.106
30	27.935	35.156	22.535	0.159
40	27.935	35.155	22.535	0.212
50	27.922	35.155	22.539	0.266
60	27.921	35.155	22.539	0.319
70	27.921	35.155	22.539	0.372
80	27.899	35.153	22.545	0.425
90	27.894	35.153	22.547	0.479
100	27.873	35.152	22.553	0.532
110	27.833	35.149	22.564	0.585
120	27.789	35.145	22.575	0.639
130	26.997	35.118	22.810	0.691
140	25.960	34.991	23.041	0.741
150	21.878	34.789	24.093	0.786
160	19.400	34.725	24.710	0.822
170	15.917	34.655	25.502	0.850
180	13.302	34.597	26.020	0.873
190	12.457	34.787	26.336	0.891
200	12.416	34.827	26.375	0.909
202	12.245	34.821	26.404	0.912

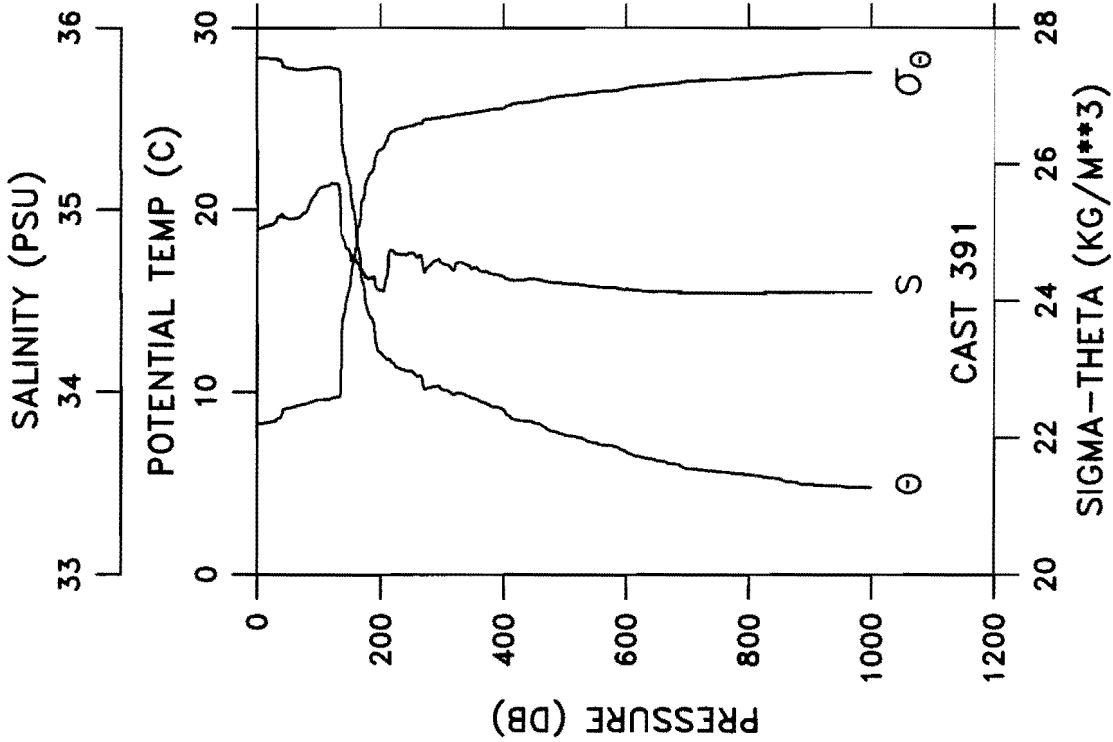


CAST GP4-99-KA-0381 DATE 22 AUG 99 TIME 0159 GMT
 LAT 02 29.6N LONG 179 48.9W WEATHER 1 SEA STATE 5
 BAROMETER 10 WIND DIR 085 T SPD 20 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 28.7 WET 23.5 DEPTH 5308 M



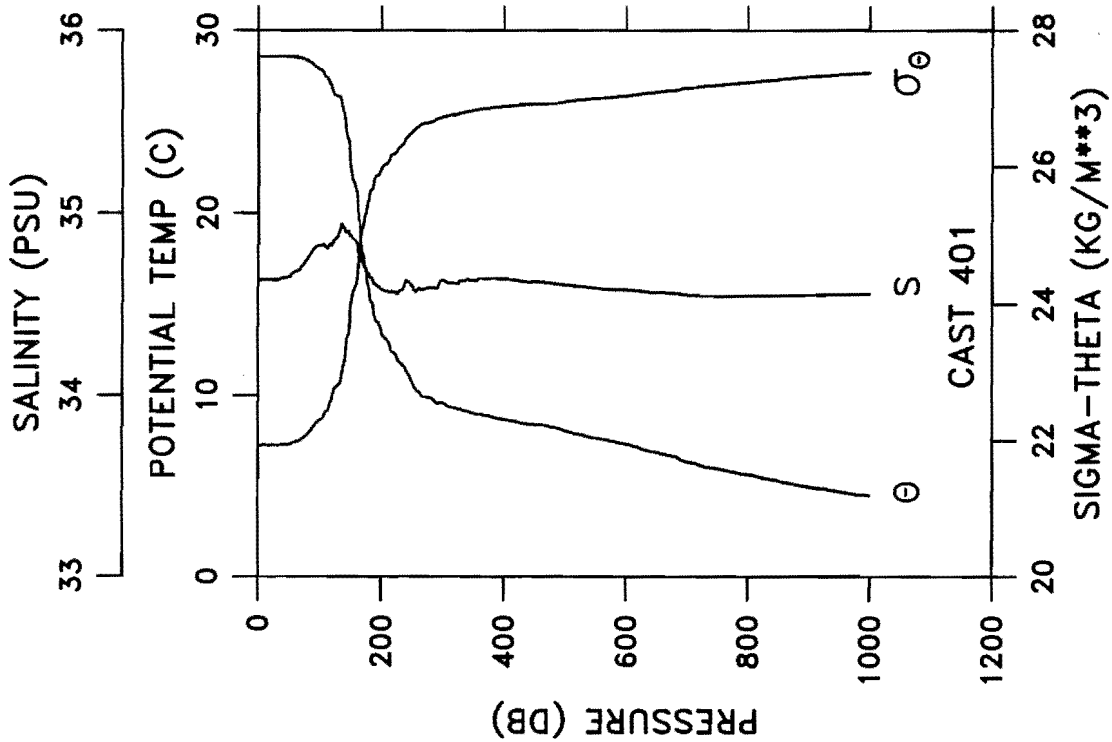
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.289	35.016	22.314	0.000
10	28.291	35.015	22.313	0.055
20	28.291	35.015	22.313	0.110
30	28.245	35.011	22.325	0.166
40	28.207	35.021	22.345	0.221
50	28.124	35.132	22.456	0.275
60	28.087	35.147	22.479	0.329
70	28.050	35.148	22.492	0.383
80	28.007	35.148	22.506	0.437
90	27.974	35.149	22.517	0.490
100	27.935	35.151	22.532	0.544
110	27.826	35.146	22.563	0.597
120	27.741	35.137	22.585	0.650
130	27.668	35.131	22.603	0.703
140	27.607	35.122	22.616	0.756
150	25.472	34.898	23.122	0.809
160	21.596	34.781	24.165	0.852
170	18.593	34.725	24.915	0.887
180	16.524	34.661	25.367	0.916
190	13.710	34.591	25.932	0.939
200	12.224	34.782	26.377	0.958
250	11.575	34.823	26.532	1.038
300	10.362	34.753	26.697	1.113
350	10.153	34.736	26.720	1.183
400	9.379	34.688	26.813	1.250
450	8.077	34.603	26.951	1.313
500	7.754	34.594	26.992	1.370
550	6.844	34.566	27.099	1.425
600	6.236	34.557	27.173	1.475
650	6.103	34.554	27.188	1.524
700	5.958	34.552	27.204	1.572
750	5.636	34.546	27.240	1.619
800	5.490	34.544	27.256	1.665
900	5.163	34.548	27.298	1.754
1000	4.850	34.549	27.335	1.841
1003	4.831	34.549	27.337	1.843

CAST GP4-99-KA-0391 DATE 22 AUG 99 TIME 0554 GMT
 LAT 03 00.1N LONG 179 49.7W WEATHER 1 SEA STATE 5
 BAROMETER 10 WIND DIR 101 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 30.0 WET 25.6 DEPTH 5971 M



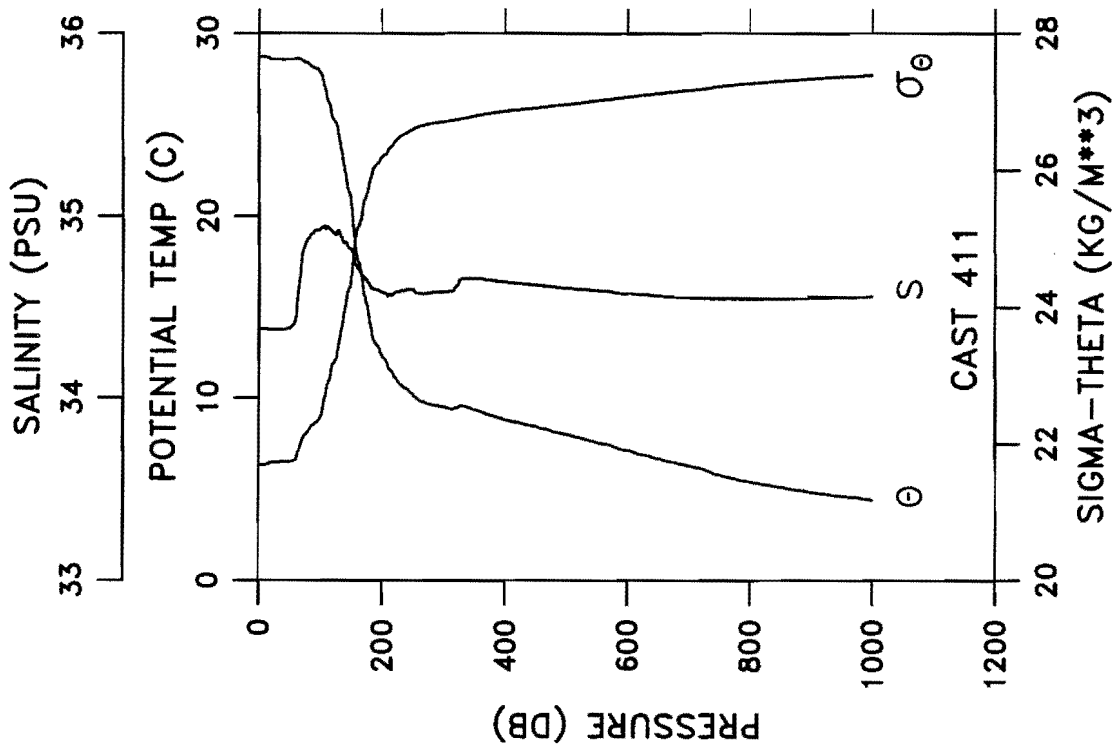
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.347	34.898	22.206	0.000
10	28.349	34.902	22.208	0.056
20	28.330	34.913	22.223	0.112
30	28.304	34.931	22.246	0.168
40	28.102	34.975	22.345	0.224
50	27.785	34.951	22.430	0.278
60	27.728	34.950	22.448	0.332
70	27.678	34.964	22.474	0.386
80	27.678	34.990	22.494	0.440
90	27.747	35.068	22.531	0.494
100	27.793	35.114	22.550	0.547
110	27.818	35.128	22.552	0.601
120	27.781	35.145	22.578	0.654
130	27.728	35.142	22.592	0.707
140	23.101	34.836	23.782	0.756
150	21.439	34.768	24.199	0.796
160	19.097	34.724	24.786	0.830
170	16.079	34.667	25.474	0.859
180	14.377	34.621	25.815	0.883
190	13.530	34.628	25.998	0.905
200	12.166	34.558	26.215	0.924
250	11.161	34.764	26.563	1.004
300	10.156	34.706	26.696	1.077
350	9.654	34.679	26.760	1.146
400	9.018	34.630	26.826	1.212
450	8.306	34.619	26.928	1.274
500	7.647	34.594	27.007	1.332
550	7.219	34.578	27.056	1.388
600	6.708	34.565	27.116	1.442
650	6.266	34.552	27.164	1.492
700	5.805	34.542	27.216	1.540
750	5.643	34.545	27.238	1.587
800	5.480	34.543	27.256	1.633
900	4.946	34.547	27.323	1.721
1000	4.771	34.548	27.343	1.805
1002	4.770	34.547	27.343	1.807

CAST GP4-99-KA-0401 DATE 22 AUG 99 TIME 1239 GMT
 LAT 04 00.1N LONG 179 52.5W WEATHER 1 SEA STATE 5
 BAROMETER 12 WIND DIR 097 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.7 WET 24.0 DEPTH 5424 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.588	34.633	21.928	0.000
10	28.570	34.634	21.934	0.059
20	28.581	34.633	21.930	0.118
30	28.585	34.633	21.928	0.177
40	28.583	34.640	21.934	0.235
50	28.573	34.650	21.945	0.294
60	28.532	34.676	21.979	0.353
70	28.471	34.709	22.024	0.412
80	28.348	34.751	22.095	0.470
90	28.116	34.800	22.208	0.527
100	27.881	34.822	22.301	0.583
110	27.476	34.812	22.425	0.638
120	26.759	34.832	22.670	0.692
130	26.399	34.883	22.822	0.743
140	25.388	34.916	23.161	0.792
150	22.502	34.880	23.986	0.837
160	21.185	34.838	24.321	0.875
170	17.735	34.731	25.132	0.907
180	15.742	34.654	25.541	0.933
190	14.165	34.609	25.851	0.957
200	13.495	34.582	25.970	0.978
250	10.742	34.601	26.512	1.070
300	9.600	34.631	26.732	1.142
350	9.015	34.631	26.827	1.208
400	8.671	34.637	26.887	1.271
450	8.398	34.624	26.919	1.332
500	8.041	34.607	26.959	1.393
550	7.630	34.589	27.006	1.451
600	7.301	34.579	27.045	1.507
650	6.854	34.566	27.097	1.561
700	6.316	34.550	27.157	1.613
750	5.953	34.545	27.199	1.662
800	5.616	34.544	27.241	1.710
900	4.931	34.549	27.326	1.799
1000	4.475	34.557	27.383	1.881
1004	4.455	34.557	27.386	1.884

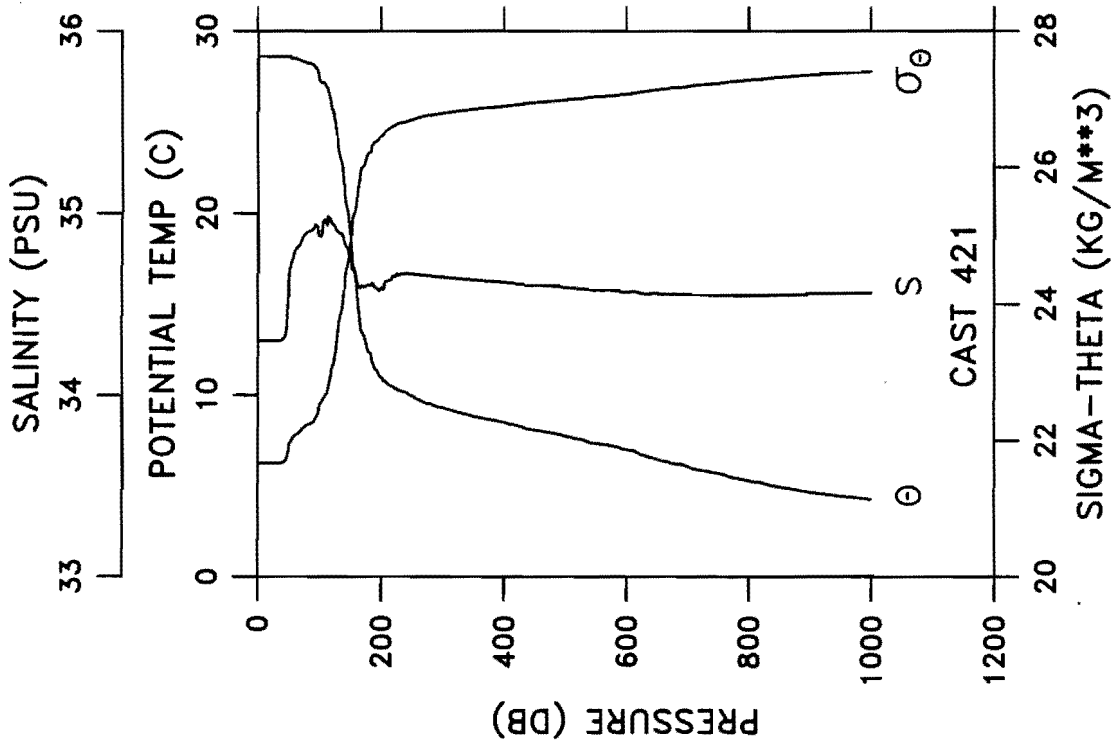
CST GP4-99-KA-0411 DATE 23 AUG 99 TIME 0605 GMT
 LAT 05 01.0N LONG 179 55.7W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 086 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.2 WET 24.7 DEPTH 5605 M



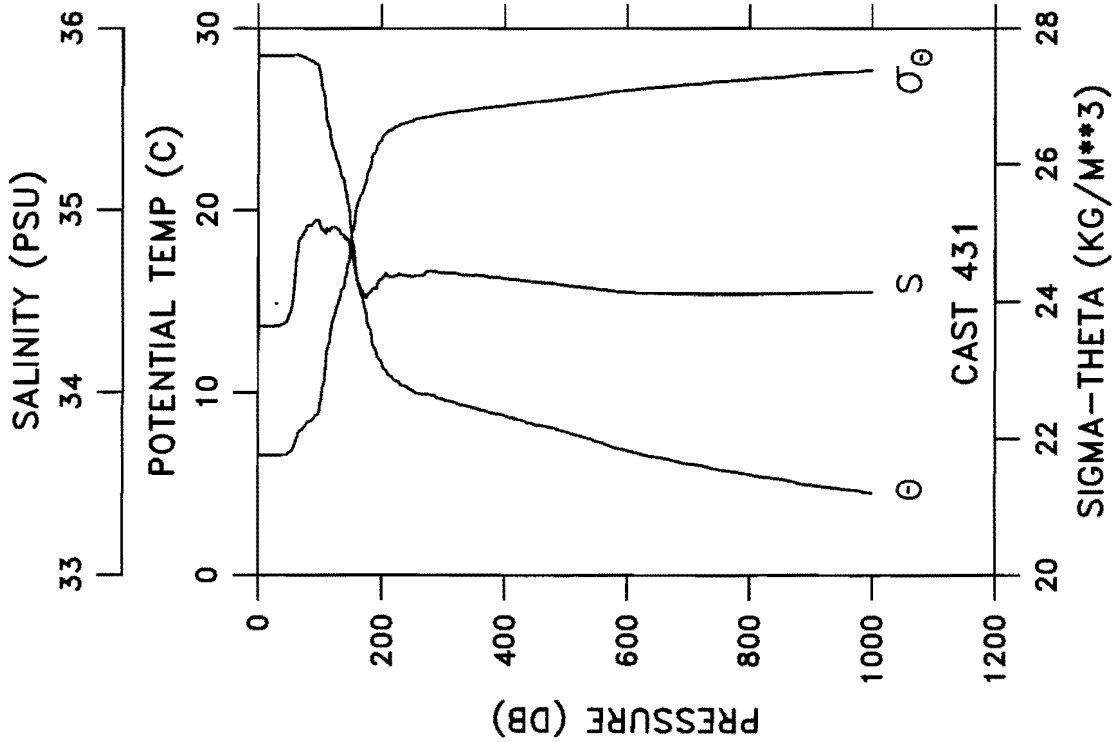
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.719	34.383	21.697	0.000
10	28.720	34.382	21.696	0.061
20	28.600	34.377	21.731	0.122
30	28.588	34.377	21.736	0.183
40	28.583	34.379	21.738	0.244
50	28.586	34.385	21.742	0.304
60	28.615	34.444	21.777	0.365
70	28.527	34.789	22.065	0.424
80	28.337	34.875	22.193	0.482
90	28.104	34.916	22.299	0.538
100	27.832	34.928	22.397	0.593
110	26.526	34.941	22.826	0.646
120	25.306	34.907	23.179	0.695
130	24.298	34.912	23.488	0.742
140	22.373	34.856	24.005	0.784
150	20.638	34.820	24.456	0.821
160	17.593	34.714	25.154	0.853
170	15.713	34.654	25.548	0.880
180	14.165	34.616	25.857	0.903
190	12.987	34.597	26.084	0.924
200	12.345	34.585	26.201	0.943
250	10.237	34.601	26.600	1.025
300	9.532	34.587	26.709	1.096
350	9.387	34.658	26.788	1.164
400	8.825	34.638	26.863	1.229
450	8.464	34.623	26.908	1.291
500	8.044	34.607	26.959	1.351
550	7.588	34.593	27.016	1.409
600	7.157	34.578	27.065	1.465
650	6.698	34.565	27.118	1.518
700	6.289	34.555	27.164	1.569
750	5.804	34.550	27.222	1.617
800	5.434	34.548	27.266	1.663
900	4.847	34.553	27.339	1.750
1000	4.434	34.561	27.391	1.831
1500	2.789	34.608	27.592	2.169
2000	2.063	34.643	27.680	2.441
2500	1.646	34.663	27.729	2.683
3000	1.447	34.671	27.750	2.913
3500	1.275	34.680	27.770	3.139
4000	1.090	34.690	27.791	3.359
4001	1.090	34.690	27.791	3.360

CAST GP4-99-KA-0421 DATE 23 AUG 99 TIME 1354 GMT
 LAT 06 00.1N LONG 179 54.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 086 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.5 WET 24.6 DEPTH 5502 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.611	34.297	21.668	0.000
10	28.617	34.299	21.667	0.061
20	28.617	34.299	21.668	0.123
30	28.618	34.299	21.667	0.184
40	28.589	34.307	21.683	0.246
50	28.594	34.643	21.933	0.306
60	28.502	34.795	22.078	0.365
70	28.377	34.841	22.153	0.422
80	28.269	34.896	22.230	0.478
90	28.155	34.914	22.282	0.535
100	27.314	34.874	22.525	0.590
110	27.026	34.957	22.679	0.642
120	25.680	34.945	23.093	0.693
130	23.558	34.896	23.694	0.739
140	21.502	34.831	24.229	0.779
150	18.853	34.765	24.880	0.813
160	15.747	34.625	25.518	0.841
170	13.366	34.596	26.007	0.863
180	12.366	34.606	26.213	0.882
190	11.425	34.591	26.380	0.900
200	10.985	34.588	26.458	0.916
250	9.964	34.666	26.698	0.980
300	9.323	34.651	26.793	1.057
350	8.853	34.634	26.855	1.121
400	8.526	34.622	26.897	1.183
450	8.087	34.605	26.951	1.243
500	7.752	34.591	26.990	1.302
550	7.358	34.577	27.035	1.358
600	7.009	34.565	27.075	1.413
650	6.473	34.559	27.143	1.465
700	6.070	34.554	27.191	1.515
750	5.703	34.549	27.234	1.562
800	5.290	34.547	27.282	1.607
900	4.665	34.554	27.360	1.692
1000	4.284	34.564	27.409	1.771
1003	4.272	34.564	27.410	1.773

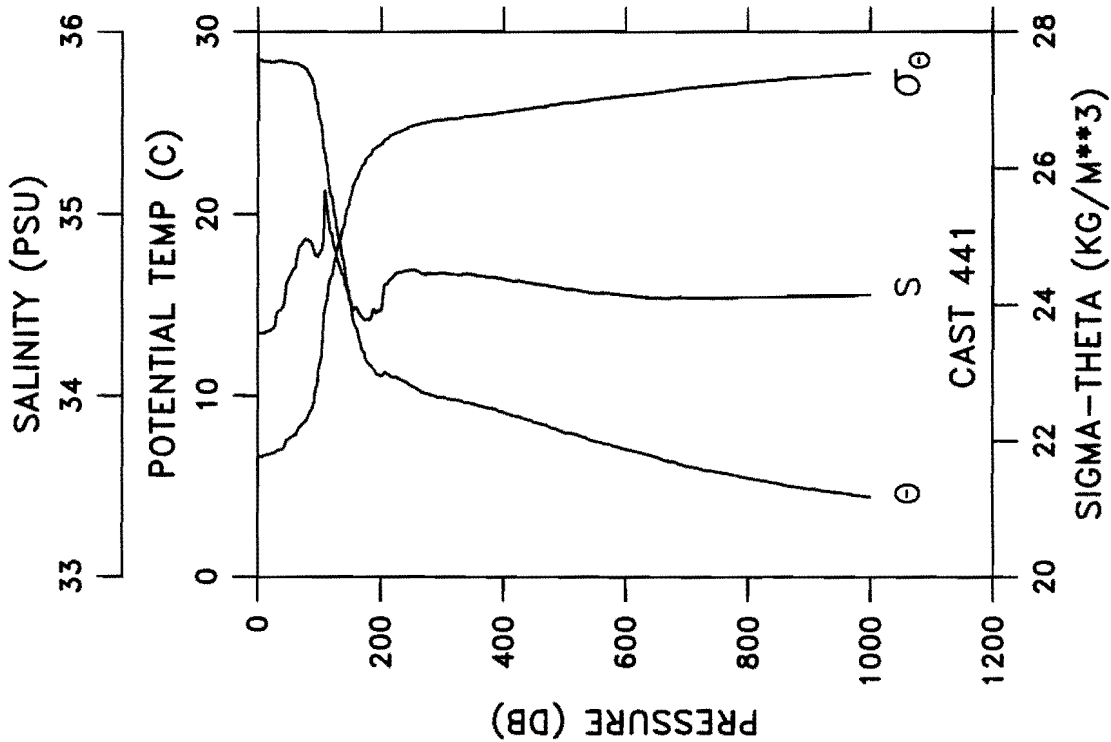


CAST GP4--99--KA--0431 DATE 23 AUG 99 TIME 2020 GMT
 LAT 07 00.0N LONG 179 52.8W WEATHER 6 SEA STATE 4
 BAROMETER 12 WIND DIR 085 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.5 WET 24.5 DEPTH 5782 M



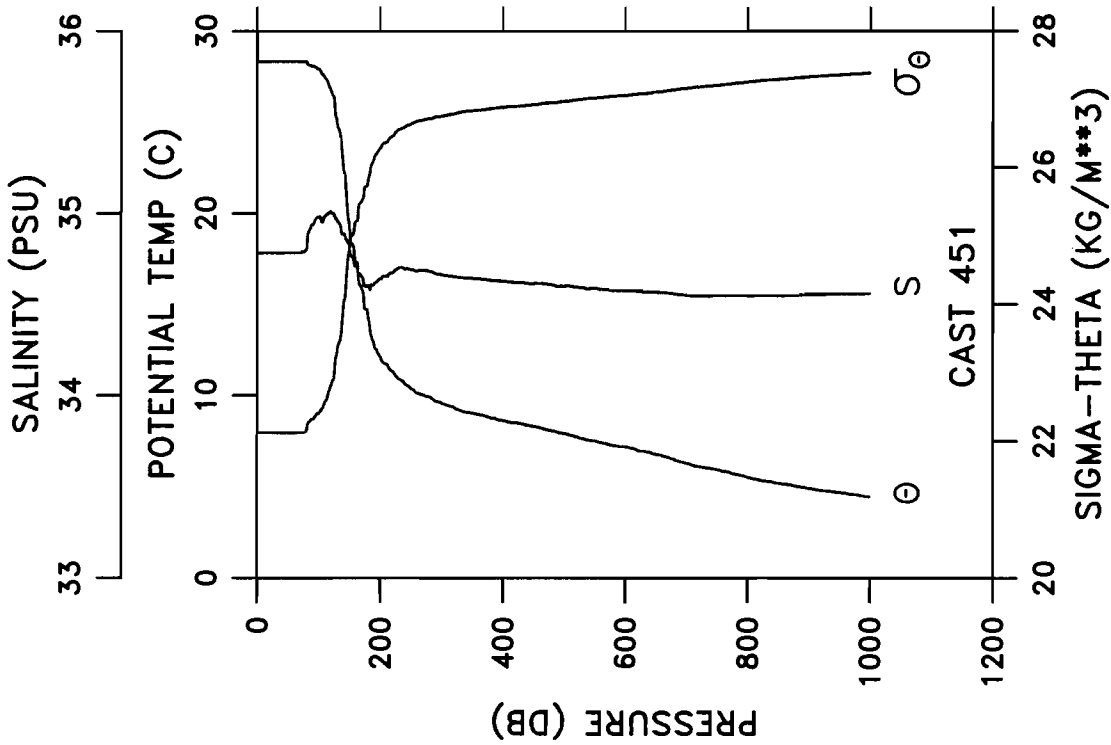
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.504	34.366	21.755	0.000
10	28.504	34.366	21.755	0.060
20	28.499	34.364	21.755	0.121
30	28.503	34.366	21.755	0.182
40	28.509	34.377	21.762	0.242
50	28.523	34.427	21.795	0.303
60	28.559	34.647	21.948	0.363
70	28.468	34.849	22.130	0.420
80	28.286	34.917	22.241	0.477
90	28.134	34.928	22.299	0.533
100	27.530	34.922	22.491	0.588
110	25.348	34.871	23.139	0.639
120	23.546	34.908	23.707	0.684
130	22.471	34.894	24.006	0.725
140	21.371	34.844	24.275	0.764
150	19.213	34.783	24.802	0.798
160	16.321	34.621	25.384	0.827
170	15.078	34.548	25.607	0.852
180	13.562	34.550	25.931	0.875
190	12.327	34.572	26.194	0.894
200	11.688	34.624	26.357	0.912
250	10.139	34.639	26.647	0.988
300	9.638	34.659	26.747	1.058
350	9.157	34.645	26.815	1.124
400	8.749	34.627	26.866	1.188
450	8.247	34.607	26.928	1.250
500	7.873	34.588	26.969	1.309
550	7.360	34.570	27.030	1.366
600	6.844	34.553	27.089	1.420
650	6.473	34.548	27.134	1.472
700	6.115	34.543	27.177	1.523
750	5.760	34.542	27.221	1.571
800	5.507	34.543	27.253	1.617
900	4.931	34.548	27.325	1.706
1000	4.495	34.555	27.380	1.788
1001	4.494	34.555	27.380	1.789

CAST GP4-99-KA-0441 DATE 24 AUG 99 TIME 0428 GMT
 LAT 07 58.7N LONG 179 50.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 083 T SPD 05 KT VISIBILITY 7
 CLOUD 7 AMOUNT 2 DRY 26.8 WET 24.7 DEPTH 5871 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-O (DYN-M)
0	28.432	34.345	21.763	0.000
10	28.371	34.344	21.782	0.060
20	28.344	34.361	21.804	0.121
30	28.401	34.445	21.848	0.181
40	28.398	34.486	21.880	0.240
50	28.303	34.645	22.031	0.299
60	28.286	34.701	22.078	0.357
70	28.140	34.828	22.222	0.413
80	27.841	34.859	22.343	0.469
90	27.098	34.810	22.546	0.524
100	25.188	34.786	23.124	0.574
110	22.975	35.087	24.008	0.618
120	20.954	34.894	24.427	0.655
130	18.769	34.734	24.878	0.689
140	17.269	34.640	25.175	0.718
150	15.148	34.529	25.577	0.744
160	13.725	34.485	25.847	0.767
170	12.500	34.428	26.049	0.788
180	11.779	34.420	26.181	0.807
190	11.359	34.467	26.296	0.826
200	11.091	34.470	26.347	0.843
250	10.547	34.692	26.617	0.921
300	9.927	34.674	26.710	0.993
350	9.553	34.667	26.767	1.061
400	9.078	34.643	26.826	1.127
450	8.536	34.616	26.891	1.191
500	7.933	34.588	26.960	1.252
550	7.475	34.566	27.010	1.310
600	7.039	34.553	27.062	1.365
650	6.580	34.539	27.113	1.419
700	6.096	34.541	27.177	1.469
750	5.771	34.539	27.218	1.517
800	5.423	34.542	27.262	1.564
850	4.853	34.547	27.333	1.651
900	4.385	34.557	27.392	1.732
1000	2.842	34.604	27.584	2.072
2000	1.990	34.643	27.686	2.346
2500	1.674	34.663	27.727	2.588
3000	1.454	34.672	27.750	2.820
3500	1.243	34.683	27.774	3.046
4000	1.047	34.693	27.795	3.262
4001	1.047	34.693	27.795	3.262

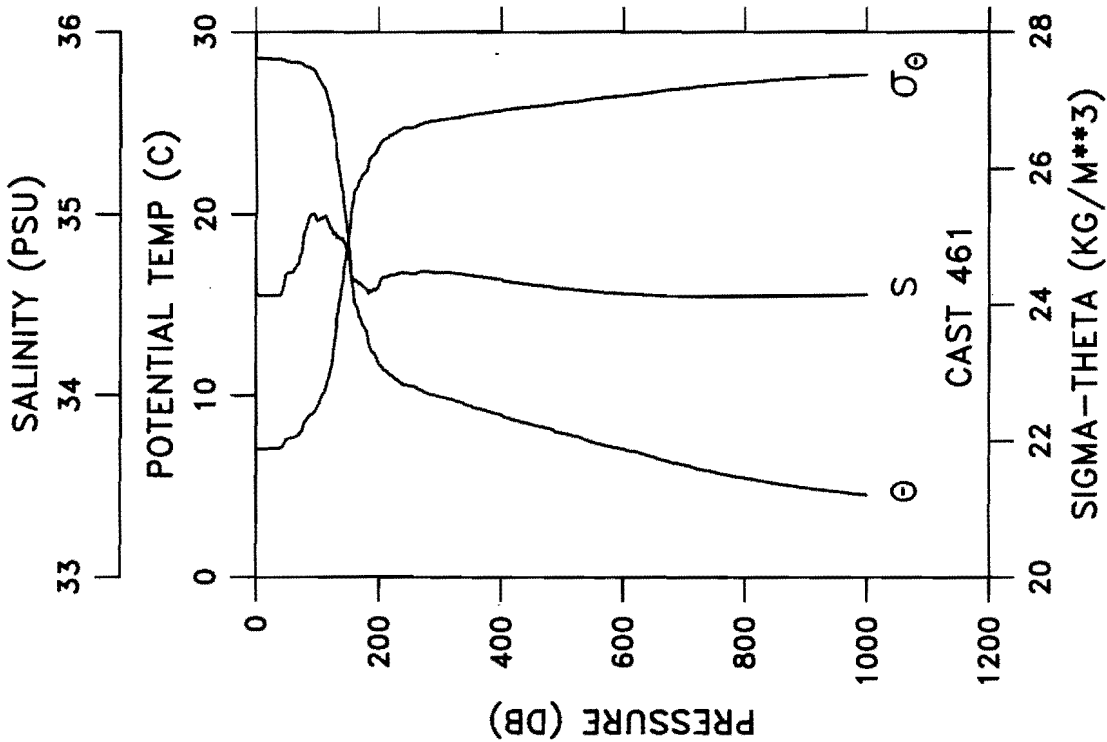
CAST GP4-99-KA-0451 DATE 26 AUG 99 TIME 1855 GMT
 LAT 06 00.0N LONG 169 59.9W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 144 T SPD 95 KT VISIBILITY 7
 CLOUD 7 AMOUNT 4 DRY 27.0 WET 24.0 DEPTH 5369 M



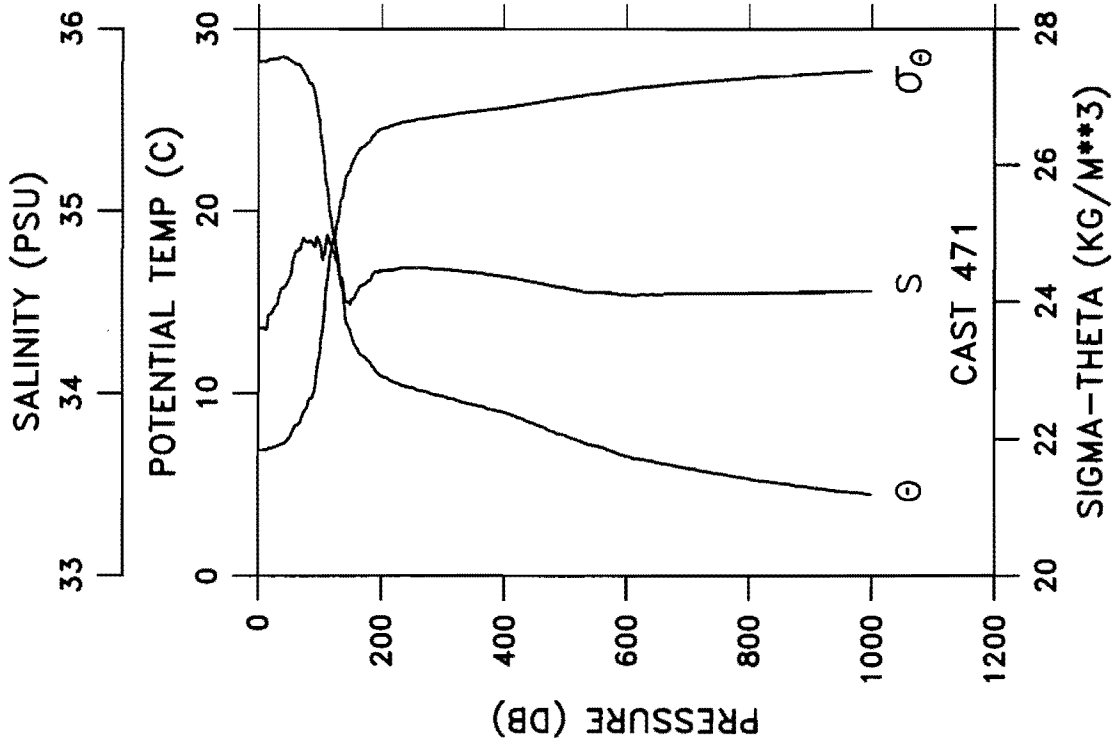
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.317	34.782	22.129	0.000
10	28.323	34.782	22.127	0.057
20	28.323	34.783	22.128	0.114
30	28.325	34.783	22.127	0.171
40	28.328	34.783	22.126	0.228
50	28.327	34.783	22.127	0.285
60	28.326	34.784	22.127	0.342
70	28.322	34.785	22.129	0.399
80	28.293	34.801	22.151	0.457
90	28.073	34.936	22.325	0.513
100	27.921	34.978	22.406	0.568
110	27.428	34.985	22.571	0.622
120	26.736	35.004	22.807	0.674
130	24.907	34.952	23.335	0.723
140	22.446	34.885	24.006	0.767
150	19.219	34.799	24.812	0.802
160	17.350	34.716	25.214	0.832
170	15.840	34.651	25.516	0.858
180	14.388	34.598	25.795	0.882
190	12.793	34.613	26.135	0.903
200	12.120	34.640	26.287	0.921
250	10.387	34.689	26.643	1.000
300	9.581	34.661	26.758	1.070
350	9.030	34.643	26.834	1.135
400	8.648	34.629	26.883	1.198
450	8.322	34.615	26.923	1.259
500	7.928	34.599	26.970	1.318
550	7.522	34.589	27.021	1.376
600	7.195	34.576	27.058	1.431
650	6.766	34.567	27.110	1.485
700	6.255	34.551	27.165	1.536
750	5.910	34.550	27.208	1.585
800	5.494	34.549	27.259	1.631
900	4.888	34.553	27.334	1.719
1000	4.429	34.560	27.391	1.800
1003	4.425	34.559	27.390	1.802

CAST GP4-99-KA-0461 DATE 27 AUG 99 TIME 0133 GMT
 LAT 07 00.3N LONG 169 59.7W WEATHER 2 SEA STATE 4
 BAROMETER 08 WIND DIR 124 T SPD 16 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 28.5 WET 25.5 DEPTH 4615 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.554	34.553	21.879	0.000
10	28.546	34.550	21.879	0.059
20	28.524	34.549	21.886	0.119
30	28.510	34.549	21.890	0.178
40	28.499	34.555	21.898	0.237
50	28.379	34.674	22.027	0.296
60	28.331	34.681	22.049	0.354
70	28.312	34.735	22.095	0.412
80	28.118	34.910	22.290	0.469
90	28.019	34.998	22.389	0.524
100	27.556	34.965	22.515	0.578
110	26.985	34.983	22.712	0.631
120	25.963	34.931	22.984	0.682
130	23.904	34.886	23.586	0.728
140	21.348	34.868	24.300	0.768
150	18.677	34.757	24.918	0.801
160	15.141	34.627	25.654	0.828
170	14.246	34.618	25.841	0.851
180	13.536	34.583	25.962	0.873
190	12.397	34.583	26.190	0.892
200	11.734	34.606	26.334	0.910
250	10.557	34.674	26.601	0.989
300	9.909	34.678	26.717	1.060
350	9.425	34.662	26.785	1.128
400	8.930	34.638	26.846	1.193
450	8.401	34.611	26.908	1.256
500	7.934	34.589	26.962	1.316
550	7.434	34.574	27.022	1.373
600	7.062	34.561	27.065	1.428
650	6.800	34.552	27.120	1.482
700	6.152	34.546	27.174	1.532
750	5.789	34.543	27.221	1.580
800	5.451	34.544	27.261	1.626
800	4.903	34.550	27.329	1.713
1000	4.524	34.557	27.378	1.796
1004	4.516	34.557	27.378	1.799



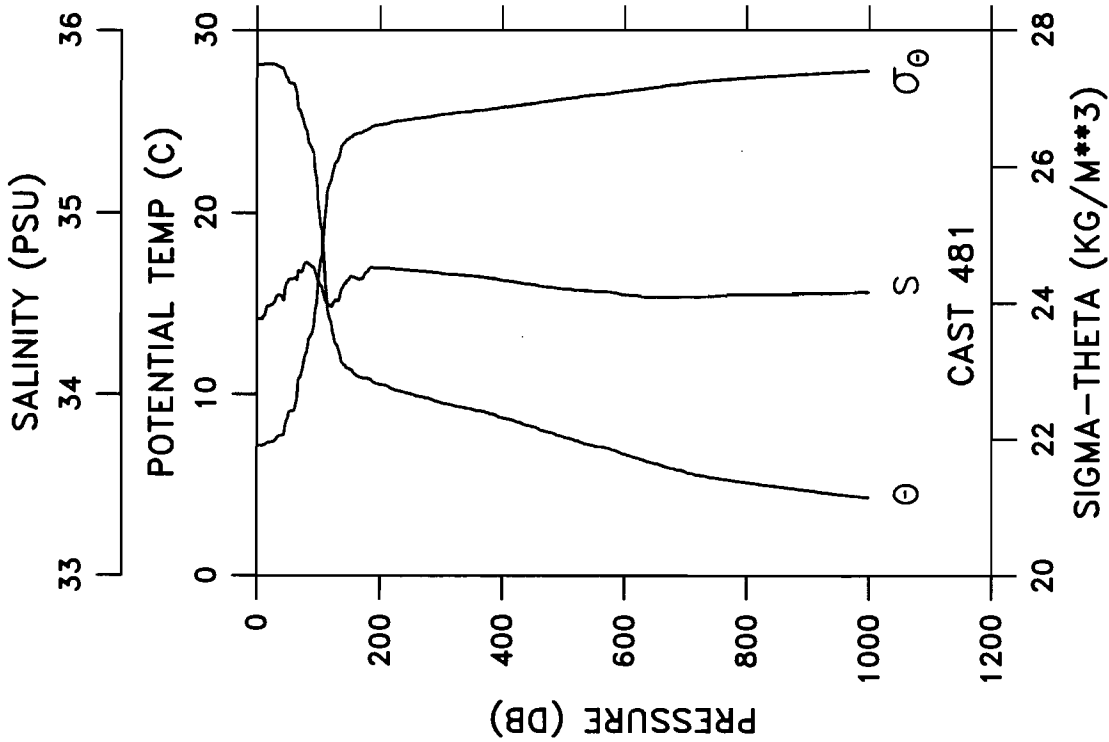
CAST GP4-99-KA-0471 DATE 27 AUG 99 TIME 1613 GMT
 LAT 08 04.0N LONG 169 58.8W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 069 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 24.1 DEPTH 5441 M



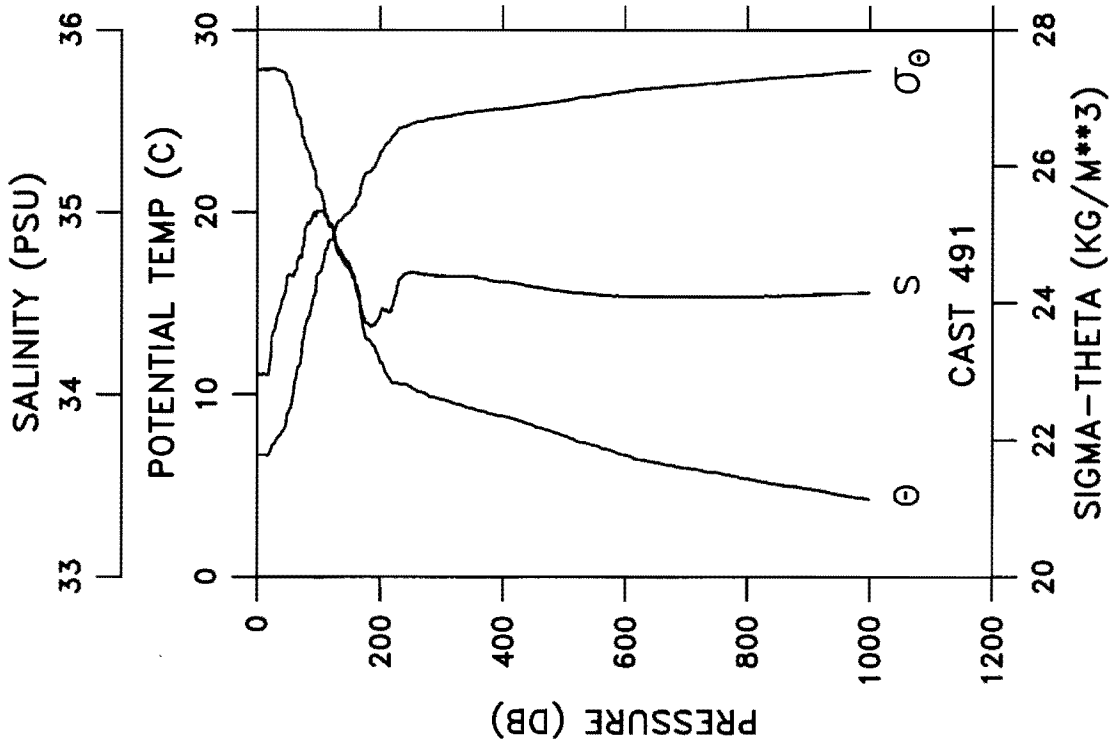
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.226	34.355	21.838	0.000
10	28.211	34.348	21.838	0.060
20	28.322	34.433	21.865	0.119
30	28.356	34.483	21.891	0.179
40	28.456	34.575	21.928	0.238
50	28.319	34.625	22.011	0.297
60	28.068	34.774	22.204	0.354
70	27.834	34.818	22.314	0.410
80	27.279	34.824	22.498	0.465
90	26.682	34.813	22.680	0.517
100	24.874	34.818	23.244	0.567
110	21.531	34.824	24.216	0.609
120	19.016	34.786	24.855	0.643
130	17.214	34.685	25.222	0.673
140	14.638	34.523	25.683	0.698
150	13.262	34.495	25.950	0.720
160	12.455	34.554	26.156	0.740
170	12.031	34.592	26.267	0.758
180	11.756	34.614	26.336	0.776
190	11.286	34.663	26.462	0.792
200	10.953	34.670	26.528	0.808
250	10.322	34.690	26.655	0.882
300	9.867	34.679	26.724	0.952
350	9.402	34.661	26.788	1.020
400	8.968	34.638	26.840	1.085
450	8.339	34.607	26.914	1.147
500	7.724	34.576	26.982	1.207
550	7.126	34.552	27.049	1.263
600	6.546	34.537	27.116	1.316
650	6.206	34.540	27.163	1.366
700	5.891	34.545	27.207	1.415
750	5.603	34.544	27.242	1.462
800	5.322	34.546	27.278	1.507
850	4.853	34.552	27.337	1.593
900	4.454	34.560	27.388	1.674
1000	2.911	34.603	27.576	2.020
2000	2.018	34.642	27.684	2.295
2500	1.671	34.664	27.728	2.539
3000	1.444	34.674	27.753	2.771
3500	1.241	34.684	27.775	2.995
4000	1.036	34.694	27.797	3.211
4003	1.035	34.694	27.797	3.212

CAST GP4-99-KA-0481 DATE 28 AUG 99 TIME 0350 GMT
 LAT 09 00.4N LONG 169 07.2W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 058 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.3 WET 24.1 DEPTH 4982 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.129	34.415	21.914	0.000
10	28.135	34.427	21.921	0.059
20	28.155	34.486	21.960	0.118
30	28.113	34.516	21.996	0.176
40	27.963	34.540	22.063	0.234
50	27.373	34.614	22.308	0.291
60	27.037	34.636	22.434	0.345
70	25.577	34.673	22.919	0.397
80	24.558	34.727	23.270	0.445
90	23.461	34.701	23.575	0.490
100	20.380	34.629	24.379	0.530
110	16.763	34.529	25.209	0.562
120	14.010	34.488	25.790	0.587
130	12.700	34.518	26.080	0.607
140	11.667	34.588	26.332	0.626
150	11.396	34.635	26.420	0.642
160	11.095	34.639	26.478	0.658
170	10.944	34.637	26.503	0.674
180	10.881	34.674	26.544	0.690
190	10.665	34.697	26.600	0.704
200	10.550	34.694	26.618	0.719
250	10.036	34.683	26.698	0.790
300	9.552	34.665	26.766	0.858
350	9.187	34.651	26.815	0.924
400	8.698	34.627	26.874	0.988
450	8.222	34.605	26.930	1.049
500	7.654	34.578	26.994	1.108
550	7.160	34.566	27.055	1.164
600	6.697	34.548	27.104	1.217
650	6.166	34.535	27.164	1.268
700	5.717	34.537	27.223	1.316
750	5.374	34.540	27.267	1.362
800	5.111	34.547	27.303	1.405
900	4.698	34.554	27.356	1.489
1000	4.304	34.560	27.404	1.568
1002	4.295	34.561	27.406	1.570



CAST GP4-99-KA-0491 DATE 28 AUG 99 TIME 1404 GMT
 LAT 10 00.3N LONG 168 14.6W WEATHER 2 SEA STATE 5
 BAROMETER 08 WIND DIR 013 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 26.7 WET 25.1 DEPTH 5254 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.842	34.113	21.781	0.000
10	27.843	34.113	21.781	0.060
20	27.864	34.170	21.817	0.120
30	27.853	34.381	21.979	0.180
40	27.721	34.512	22.121	0.237
50	27.171	34.652	22.403	0.294
60	25.925	34.657	22.800	0.347
70	25.115	34.761	23.127	0.396
80	23.498	34.923	23.732	0.440
90	22.584	34.974	24.035	0.481
100	21.231	35.002	24.434	0.518
110	19.956	34.977	24.757	0.552
120	19.166	34.933	24.929	0.583
130	17.831	34.814	25.172	0.613
140	17.266	34.753	25.262	0.641
150	16.839	34.711	25.331	0.668
160	15.867	34.596	25.468	0.694
170	14.157	34.454	25.733	0.719
180	13.035	34.388	25.912	0.740
190	12.649	34.386	25.987	0.761
200	11.742	34.440	26.203	0.781
250	10.409	34.672	26.625	0.862
300	9.745	34.652	26.724	0.933
350	9.280	34.646	26.796	1.000
400	8.843	34.616	26.843	1.065
450	8.324	34.588	26.902	1.127
500	7.767	34.564	26.967	1.187
550	7.215	34.549	27.034	1.244
600	6.666	34.539	27.101	1.298
650	6.256	34.534	27.152	1.349
700	5.955	34.533	27.190	1.398
750	5.720	34.534	27.219	1.446
800	5.369	34.536	27.264	1.492
900	4.804	34.544	27.336	1.579
1000	4.271	34.556	27.404	1.659
1004	4.260	34.556	27.406	1.662

CAST GP4-99-KA-0011 LAT 08 02.7N LONG 165 02.0E CAST GP4-99-KA-0031 LAT 05 59.9N LONG 165 00.6E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1500.	3.022	34.601	2.913	27.573	3.	28.573	34.084	28.572	21.519
1750.	2.517	34.621	2.394	27.635	10.	28.576	34.082	28.573	21.519
2000.	2.259	34.638	2.119	27.671	26.	28.578	34.082	28.572	21.521
2249.	2.027	34.652	1.868	27.700	40.	28.626	34.154	28.616	21.557
2499.	1.887	34.659	1.709	27.719	60.	28.662	34.290	28.647	21.655
2750.	1.780	34.665	1.580	27.734	100.	27.583	34.882	27.560	22.451
3000.	1.678	34.671	1.458	27.748	150.	18.216	34.709	18.190	25.010
3250.	1.605	34.675	1.361	27.759	400.	8.466	34.611	8.424	26.906
3500.	1.522	34.682	1.255	27.771	600.	6.867	34.552	6.811	27.094
3750.	1.471	34.686	1.179	27.780	799.	5.452	34.542	5.384	27.268
4005.	1.424	34.691	1.107	27.789	1002.	4.419	34.557	4.339	27.399

CAST GP4-99-KA-0021 LAT 07 00.0N LONG 165 01.7E CAST GP4-99-KA-0041 LAT 05 03.3N LONG 164 57.7E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
9.	28.574	34.215	28.572	21.616	1000.	4.387	34.561	4.308	27.404
25.	28.494	34.232	28.488	21.656	1499.	2.997	34.602	2.889	27.578
40.	28.567	34.295	28.558	21.684	1750.	2.564	34.621	2.441	27.632
60.	28.555	34.596	28.541	21.916	2000.	2.223	34.638	2.083	27.676
100.	27.207	34.905	27.184	22.590	2249.	1.935	34.653	1.778	27.712
150.	17.065	34.662	17.040	25.250	2500.	1.804	34.662	1.627	27.730
199.	11.863	34.530	11.838	26.250	2750.	1.708	34.666	1.510	27.743
400.	8.979	34.631	8.935	26.840	3250.	1.582	34.675	1.339	27.762
600.	7.415	34.563	7.356	27.024	3500.	1.530	34.679	1.263	27.771
801.	5.576	34.539	5.507	27.250	3750.	1.498	34.686	1.206	27.778
1002.	4.446	34.557	4.366	27.395					

CAST GP4-99-KA-0042 LAT 05 01.8N LONG 165 00.6E CAST GP4-99-KA-0061 LAT 03 00.1N LONG 165 00.1E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.810	34.015	28.809	21.391	4.	29.015	33.975	29.014	21.293
10.	28.735	34.014	28.732	21.415	10.	29.023	33.976	29.021	21.291
25.	28.705	34.019	28.699	21.429	25.	28.986	33.980	28.980	21.308
41.	28.798	34.287	28.788	21.600	40.	29.082	34.230	29.072	21.465
60.	28.761	34.484	28.746	21.763	60.	29.030	34.424	29.015	21.642
101.	27.672	34.887	27.649	22.424	100.	28.161	34.810	28.138	22.197
200.	10.898	34.596	10.873	26.483	150.	19.088	34.694	19.061	24.769
400.	8.234	34.605	8.193	26.935	200.	12.389	34.549	12.362	26.167
600.	6.839	34.560	6.782	27.103	400.	8.704	34.627	8.661	26.881
799.	5.398	34.543	5.330	27.275	600.	6.804	34.557	6.747	27.106
1003.	4.297	34.562	4.219	27.414	800.	5.324	34.538	5.257	27.280
					1000.	4.434	34.555	4.355	27.396

CAST GP4-99-KA-0051 LAT 04 00.3N LONG 165 00.3E CAST GP4-99-KA-0071 LAT 02 00.6N LONG 164 57.8E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.832	33.829	28.831	21.244	999.	4.514	34.554	4.434	27.386
11.	28.769	33.833	28.767	21.269	1499.	2.930	34.603	2.823	27.585
26.	28.699	33.881	28.693	21.329	1750.	2.534	34.620	2.411	27.635
61.	28.927	34.363	28.912	21.614	2250.	1.989	34.650	1.832	27.705
100.	27.192	34.914	27.169	22.596	2750.	1.742	34.629	1.543	27.739
200.	11.877	34.536	11.851	26.255	3250.	1.584	34.674	1.341	27.761
400.	8.237	34.601	8.195	26.932					
601.	6.644	34.552	6.588	27.124					
801.	5.430	34.542	5.361	27.271					
1003.	4.371	34.557	4.292	27.404					

CAST GP4-99-KA-0081 LAT 00 59.9N LONG 165 00.2E CAST GP4-99-KA-0101 LAT 00 00.7N LONG 164 59.9E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	29.182	34.361	29.182	21.527	1001.	4.559	34.552	4.479	27.380
10.	29.194	34.364	29.191	21.526	2000.	2.299	34.634	2.158	27.667
60.	29.031	34.968	29.016	22.049	2249.	2.001	34.649	1.843	27.704
101.	28.259	35.088	28.235	22.383	2750.	1.761	34.662	1.562	27.736
151.	21.483	35.444	21.453	24.647	3001.	1.646	34.669	1.426	27.751
200.	15.405	35.182	15.374	26.025	3250.	1.585	34.675	1.342	27.761
400.	9.311	34.664	9.267	26.811	3500.	1.541	34.678	1.273	27.769
800.	5.459	34.870	5.390	27.263	3749.	1.508	34.687	1.216	27.776
1002.	4.396	34.553	4.317	27.399	4001.	1.461	34.682	1.143	27.785

CAST GP4-99-KA-0091 LAT 00 30.0N LONG 165 00.8E CAST GP4-99-KA-0111 LAT 00 01.3S LONG 165 00.7E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.067	34.334	29.066	21.547	10.	28.941	34.493	28.939	21.707
10.	29.124	34.448	29.122	21.615	25.	28.969	34.559	28.963	21.784
25.	29.153	34.498	29.147	21.644	40.	28.938	34.913	28.928	22.024
40.	29.039	34.828	29.029	21.928	60.	28.287	35.214	28.273	22.468
60.	28.813	35.043	28.799	22.179	151.	24.138	35.460	24.106	23.969
151.	20.533	35.296	20.504	24.867	200.	17.099	35.397	17.066	25.801
201.	16.236	35.282	16.204	25.917	402.	9.115	34.661	9.071	26.841
401.	9.008	34.653	8.965	26.852	600.	6.640	34.549	6.584	27.121
600.	6.634	34.544	6.578	27.116	800.	5.624	34.542	5.555	27.246
800.	5.647	34.539	5.578	27.242	1000.	4.633	34.551	4.553	27.369
1003.	4.572	34.562	4.492	27.378					

CAST GP4-99-KA-0121 LAT 00 30.1S LONG 164 49.3E CAST GP4-99-KA-0141 LAT 01 29.6S LONG 164 26.5E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.932	34.810	28.932	21.948	3.	28.792	34.902	28.792	22.062
11.	28.921	34.812	28.918	21.953	10.	28.791	34.901	28.788	22.062
26.	28.870	34.808	28.864	21.969	25.	28.796	34.902	28.790	22.063
41.	28.886	34.838	28.876	21.986	40.	28.801	34.903	28.791	22.062
61.	28.411	35.196	28.397	22.416	59.	28.748	35.064	28.733	22.205
150.	22.778	35.565	22.747	24.438	100.	28.502	35.146	28.478	22.349
201.	16.371	35.346	16.338	25.919	150.	27.274	35.288	27.239	22.887
400.	9.607	34.694	9.561	26.788	200.	14.793	35.190	14.763	26.164
601.	6.653	34.537	6.597	27.111	400.	9.405	34.694	9.360	26.819
800.	5.557	34.541	5.488	27.255	599.	6.085	34.528	6.032	27.176
1002.	4.562	34.552	4.482	27.380	800.	5.181	34.533	5.114	27.293
					1002.	4.551	34.549	4.470	27.378

CAST GP4-99-KA-0131 LAT 00 59.8S LONG 164 58.2E CAST GP4-99-KA-0151 LAT 01 52.9S LONG 164 15.8E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.892	34.908	28.891	22.034	1000.	4.635	34.545	4.555	27.366
11.	28.913	34.910	28.910	22.031	2251.	2.021	34.650	1.863	27.701
25.	28.918	34.921	28.912	22.034	3002.	1.664	34.668	1.443	27.749
40.	28.788	35.019	28.779	22.153	3250.	1.600	34.674	1.356	27.759
60.	28.537	35.171	28.522	22.354	3501.	1.544	34.678	1.277	27.768
150.	26.403	35.358	26.369	23.182	3749.	1.490	34.683	1.198	27.778
200.	15.881	35.264	15.849	26.000					
401.	9.582	34.702	9.536	26.798					
601.	6.161	34.703	6.107	27.166					
801.	5.295	35.355	5.227	27.287					
1001.	4.595	34.552	4.514	27.376					

CAST GP4-99-KA-0191 LAT 06 00.0S LONG 165 04.3E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.975	34.514	28.975	21.698
10.	28.979	34.513	28.977	21.709
24.	28.952	34.526	28.946	21.730
40.	28.973	34.557	28.963	21.747
61.	29.209	34.839	29.194	21.911
100.	27.713	35.423	27.690	22.811
151.	24.694	35.746	24.662	24.003
200.	20.205	35.735	20.167	25.257
400.	9.470	34.708	9.425	26.820
600.	7.288	34.567	7.229	27.045
800.	5.650	34.521	5.580	27.226
1001.	4.497	34.538	4.417	27.375

CAST GP4-99-KA-0201 LAT 06 59.7S LONG 164 57.2E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	29.016	34.462	29.015	21.657
10.	29.021	34.462	29.019	21.655
26.	29.031	34.462	29.025	21.654
40.	29.034	34.464	29.024	21.655
61.	29.046	34.469	29.031	21.659
101.	27.535	35.279	27.511	22.764
153.	23.000	35.942	22.968	24.662
199.	18.221	35.544	18.186	25.639
401.	8.699	34.655	8.656	26.902
801.	5.213	34.522	5.146	27.279
1002.	4.364	34.543	4.285	27.392

CAST GP4-99-KA-0212 LAT 08 01.3S LONG 164 51.7E

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1000.	4.273	34.539	4.195	27.399
1249.	3.576	34.564	3.483	27.492
1498.	2.922	34.589	2.815	27.574
1749.	2.518	34.613	2.395	27.629
2000.	2.189	34.638	2.050	27.676
2250.	2.000	34.652	1.842	27.704
2501.	1.904	34.658	1.726	27.718
2748.	1.796	34.664	1.596	27.733
3001.	1.724	34.670	1.502	27.744
3249.	1.673	34.673	1.428	27.752
3500.	1.567	34.681	1.299	27.768
3703.	1.527	34.684	1.239	27.775

CAST GP4-99-KA-0221 LAT 07 57.8S LONG 179 51.3W								CAST GP4-99-KA-0241 LAT 05 59.9S LONG 179 52.8W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
2.	28.631	34.892	28.631	22.108	2.	28.535	35.295	28.535	22.443						
10.	28.607	34.894	28.604	22.118	10.	28.546	35.300	28.543	22.444						
26.	28.606	34.898	28.600	22.122	25.	28.536	35.309	28.530	22.455						
39.	28.617	34.897	28.608	22.128	40.	28.504	35.340	28.494	22.491						
60.	28.691	34.912	28.677	22.162	60.	28.490	35.367	28.476	22.515						
101.	27.858	35.460	27.834	22.791	99.	28.485	35.389	28.461	22.538						
151.	24.112	36.234	24.080	24.590	150.	26.987	35.493	26.952	23.103						
199.	21.795	36.093	21.756	25.101	200.	22.884	36.118	22.843	24.824						
401.	9.332	34.700	9.287	26.833	399.	8.592	34.648	8.549	26.912						
601.	6.932	34.562	6.874	27.091	599.	6.415	34.537	6.360	27.140						
800.	5.532	34.533	5.463	27.249	800.	5.252	34.532	5.185	27.283						
					1001.	4.302	34.547	4.224	27.403						
CAST GP4-99-KA-0231 LAT 06 59.8S LONG 179 51.4W								CAST GP4-99-KA-0251 LAT 04 57.8S LONG 179 55.0W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	28.644	35.423	28.643	22.503	3.	28.588	35.433	28.587	22.530						
11.	28.610	35.422	28.607	22.513	10.	28.584	35.432	28.582	22.532						
25.	28.481	35.417	28.475	22.554	25.	28.589	35.433	28.583	22.530						
40.	28.470	35.418	28.461	22.559	41.	28.539	35.429	28.529	22.546						
60.	28.475	35.423	28.461	22.563	60.	28.508	35.428	28.494	22.557						
100.	28.471	35.435	28.447	22.576	101.	28.483	35.430	28.459	22.569						
201.	21.129	35.933	21.091	25.169	150.	24.833	35.736	24.800	23.950						
400.	8.742	34.659	8.698	26.898	200.	19.732	35.695	19.695	25.360						
601.	6.361	34.535	6.307	27.146	1000.	4.696	34.537	4.615	27.352						
800.	5.195	34.541	5.128	27.281	2002.	2.235	34.637	2.095	27.675						
1003.	4.224	34.546	4.146	27.410	3000.	1.684	34.671	1.463	27.750						
					4001.	1.438	34.690	1.121	27.789						

CAST GP4-99-KA-0261 LAT 03 59.6S LONG 179 54.4W CAST GP4-99-KA-0281 LAT 02 29.7S LONG 179 54.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.504	35.332	28.503	22.482	3.	28.328	35.448	28.327	22.626
10.	28.496	35.331	28.494	22.484	9.	28.242	35.449	28.240	22.656
25.	28.505	35.330	28.499	22.481	24.	28.192	35.450	28.186	22.674
40.	28.508	35.330	28.498	22.482	39.	28.181	35.452	28.172	22.680
60.	28.510	35.335	28.496	22.486	59.	28.147	35.454	28.133	22.695
101.	28.486	35.395	28.461	22.544	100.	28.035	35.453	28.012	22.731
149.	25.209	35.868	25.177	23.973	150.	23.460	35.838	23.429	24.443
200.	15.563	35.247	15.532	26.043	200.	13.785	35.042	13.757	26.271
399.	9.231	34.690	9.187	26.846	400.	9.337	34.700	9.293	26.834
601.	7.004	34.575	6.946	27.093	601.	6.376	34.549	6.321	27.156
799.	5.502	34.530	5.433	27.254	800.	5.517	34.543	5.448	27.260
1004.	4.613	34.545	4.532	27.368	1005.	4.836	34.545	4.754	27.343

CAST GP4-99-KA-0271 LAT 03 00.0S LONG 179 54.4W CAST GP4-99-KA-0291 LAT 01 57.0S LONG 179 54.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.447	35.379	28.446	22.535	2.	28.104	35.412	28.103	22.673
9.	28.450	35.379	28.448	22.535	10.	28.068	35.410	28.066	22.684
24.	28.444	35.380	28.438	22.538	25.	27.937	35.409	27.931	22.726
40.	28.445	35.379	28.435	22.539	41.	27.917	35.408	27.907	22.733
60.	28.448	35.380	28.434	22.539	61.	27.816	35.386	27.802	22.750
99.	28.258	35.413	28.234	22.630	99.	27.531	35.322	27.507	22.795
149.	24.362	35.750	24.330	24.121	152.	21.927	35.846	21.896	24.865
200.	14.141	35.119	14.112	26.246	201.	13.721	35.030	13.692	26.273
400.	9.095	34.678	9.051	26.857	1001.	4.966	34.547	4.883	27.329
600.	6.798	34.572	6.742	27.118	2001.	2.223	34.639	2.083	27.677
800.	5.635	34.540	5.566	27.244	3000.	1.691	34.669	1.470	27.747
1007.	4.675	34.544	4.594	27.360	4003.	1.393	34.694	1.077	27.794

CAST GP4-99-KA-0301 LAT 01 29.9S LONG 179 54.3W										CAST GP4-99-KA-0321 LAT 00 29.8S LONG 179 54.3W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	27.753	35.338	27.752	22.732	4.	27.363	35.281	27.362	22.814										
10.	27.750	35.336	27.747	22.732	11.	27.374	35.279	27.371	22.811										
25.	27.689	35.330	27.683	22.748	42.	27.369	35.277	27.359	22.813										
40.	27.596	35.315	27.586	22.768	62.	27.288	35.271	27.274	22.836										
60.	27.562	35.306	27.547	22.774	101.	26.922	35.227	26.899	22.920										
100.	27.433	35.279	27.410	22.796	151.	22.332	35.419	22.302	24.444										
151.	23.358	35.491	23.327	24.199	201.	16.355	35.276	16.322	25.884										
200.	14.788	35.169	14.758	26.147	601.	6.735	34.561	6.678	27.116										
401.	9.565	34.700	9.520	26.795	801.	5.612	34.551	5.542	27.254										
600.	6.591	34.558	6.535	27.132	1000.	4.647	34.555	4.567	27.370										
801.	5.586	34.548	5.517	27.256															
1004.	4.886	34.546	4.804	27.338															

CAST GP4-99-KA-0311 LAT 00 59.8S LONG 179 54.7W										CAST GP4-99-KA-0331 LAT 00 02.8N LONG 179 55.2W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	27.643	35.333	27.642	22.764	3.	27.512	35.266	27.511	22.757										
9.	27.646	35.336	27.644	22.764	11.	27.424	35.265	27.421	22.785										
25.	27.625	35.332	27.620	22.769	25.	27.370	35.264	27.364	22.802										
39.	27.633	35.331	27.624	22.768	40.	27.338	35.259	27.329	22.810										
60.	27.530	35.315	27.516	22.788	60.	27.267	35.251	27.253	22.829										
101.	26.708	35.321	26.685	23.058	100.	27.048	35.218	27.025	22.876										
149.	22.125	35.348	22.095	24.456	148.	20.692	35.339	20.664	24.850										
200.	15.180	35.188	15.150	26.082	200.	16.860	35.310	16.827	25.795										
400.	9.474	34.690	9.429	26.804	1000.	4.670	34.553	4.589	27.368										
598.	6.987	34.567	6.930	27.087	1999.	2.236	34.640	2.096	27.676										
798.	5.604	34.548	5.535	27.253	3000.	1.682	34.668	1.462	27.749										
1005.	4.788	34.552	4.706	27.353	4002.	1.419	34.692	1.102	27.790										

CAST GP4-99-KA-0341 LAT 00 30.1N LONG 179 55.6W

CAST GP4-99-KA-0341 LAT 00 30.1N LONG 179 55.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.688	35.187	27.687	22.639	2.	27.783	35.134	27.782	22.569
10.	27.657	35.186	27.655	22.649	10.	27.792	35.134	27.790	22.567
25.	27.513	35.184	27.507	22.696	26.	27.787	35.135	27.781	22.569
40.	27.469	35.193	27.460	22.717	40.	27.778	35.132	27.769	22.572
60.	27.387	35.214	27.373	22.761	60.	27.714	35.127	27.700	22.592
100.	27.143	35.237	27.120	22.862	99.	27.225	35.143	27.202	22.761
150.	21.343	35.293	21.313	24.627	150.	18.778	34.805	18.751	24.934
200.	15.897	35.197	15.865	25.926	200.	12.434	34.677	12.408	26.261
400.	8.921	34.651	8.877	26.865	401.	9.017	34.643	8.973	26.843
600.	6.503	34.562	6.447	27.149	600.	6.615	34.560	6.560	27.133
800.	5.387	34.546	5.319	27.279	800.	5.478	34.546	5.410	27.269
1002.	4.728	34.551	4.647	27.361	1001.	4.802	34.547	4.720	27.350

CAST GP4-99-KA-0361 LAT 01 30.0N LONG 179 55.7W

CAST GP4-99-KA-0371 LAT 02 01.5N LONG 179 44.3W

CAST GP4-99-KA-0351 LAT 00 59.9N LONG 179 55.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.667	35.145	27.666	22.614	1001.	4.800	34.550	4.718	27.351
10.	27.655	35.143	27.653	22.617	1502.	3.178	34.595	3.068	27.557
25.	27.601	35.142	27.595	22.636	1751.	2.583	34.620	2.459	27.631
40.	27.548	35.144	27.539	22.655	2000.	2.286	34.636	2.145	27.669
61.	27.432	35.148	27.418	22.698	2251.	2.020	34.651	1.862	27.703
100.	26.985	35.159	26.962	22.848	2502.	1.869	34.659	1.691	27.724
200.	14.105	34.889	14.076	26.022	2751.	1.771	34.666	1.572	27.737
400.	9.361	34.676	9.316	26.813	3000.	1.682	34.670	1.461	27.749
599.	6.839	34.561	6.782	27.103	3250.	1.602	34.676	1.358	27.760
799.	5.519	34.544	5.451	27.261	3502.	1.525	34.680	1.258	27.772
1002.	4.720	34.550	4.639	27.361	3751.	1.482	34.685	1.190	27.780
					4001.	1.418	34.690	1.101	27.791

CAST GP4-99-KA-0381 LAT 02 29.6N LONG 179 48.9W										CAST GP4-99-KA-0401 LAT 04 00.1N LONG 179 52.5W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)			
3.	28.274	35.013	28.273	22.318		2.	28.586	34.629	28.585	21.926		2.	28.586	34.629	28.585	21.926			
9.	28.274	35.012	28.271	22.317		10.	28.590	34.629	28.587	21.924		10.	28.590	34.629	28.587	21.924			
23.	28.254	35.010	28.249	22.323		25.	28.585	34.628	28.579	21.927		25.	28.585	34.628	28.579	21.927			
40.	28.206	35.029	28.197	22.353		39.	28.592	34.636	28.583	21.929		39.	28.592	34.636	28.583	21.929			
60.	28.078	35.145	28.064	22.486		60.	28.542	34.673	28.527	21.982		60.	28.542	34.673	28.527	21.982			
101.	27.942	35.147	27.918	22.535		101.	27.800	34.822	27.776	22.336		101.	27.800	34.822	27.776	22.336			
150.	24.198	34.853	24.166	23.462		152.	23.490	34.887	23.458	23.705		152.	23.490	34.887	23.458	23.705			
199.	12.191	34.795	12.164	26.399		201.	13.259	34.566	13.231	26.008		201.	13.259	34.566	13.231	26.008			
400.	9.420	34.681	9.375	26.808		401.	8.625	34.632	8.583	26.895		401.	8.625	34.632	8.583	26.895			
600.	6.306	34.555	6.252	27.169		600.	7.160	34.576	7.102	27.068		600.	7.160	34.576	7.102	27.068			
800.	5.560	34.541	5.491	27.255		800.	5.648	34.544	5.579	27.245		800.	5.648	34.544	5.579	27.245			
1002.	4.918	34.547	4.835	27.337		1002.	4.540	34.556	4.460	27.385		1002.	4.540	34.556	4.460	27.385			

CAST GP4-99-KA-0391 LAT 03 00.1N LONG 179 49.7W										CAST GP4-99-KA-0411 LAT 05 01.0N LONG 179 55.7W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)			
3.	28.343	34.896	28.342	22.208		2.	28.655	34.375	28.654	21.711		2.	28.655	34.375	28.654	21.711			
11.	28.353	34.897	28.351	22.206		10.	28.665	34.375	28.663	21.708		10.	28.665	34.375	28.663	21.708			
26.	28.355	34.899	28.348	22.208		25.	28.641	34.375	28.635	21.718		25.	28.641	34.375	28.635	21.718			
41.	28.331	34.910	28.321	22.230		40.	28.607	34.378	28.598	21.732		40.	28.607	34.378	28.598	21.732			
61.	27.817	34.946	27.802	22.420		61.	28.604	34.380	28.589	21.738		61.	28.604	34.380	28.589	21.738			
102.	27.784	35.086	27.760	22.541		100.	28.116	34.905	28.093	22.294		100.	28.116	34.905	28.093	22.294			
151.	20.406	34.730	20.378	24.453		149.	20.501	34.795	20.472	24.470		149.	20.501	34.795	20.472	24.470			
201.	11.954	34.552	11.928	26.260		201.	12.448	34.579	12.421	26.179		201.	12.448	34.579	12.421	26.179			
401.	9.032	34.625	8.988	26.827		1000.	4.444	34.563	4.365	27.399		1000.	4.444	34.563	4.365	27.399			
601.	6.790	34.559	6.734	27.111		2000.	2.209	34.644	2.069	27.679		2000.	2.209	34.644	2.069	27.679			
801.	5.554	34.543	5.485	27.256		3001.	1.669	34.672	1.448	27.750		3001.	1.669	34.672	1.448	27.750			
1001.	4.853	34.546	4.770	27.343		4000.	1.406	34.695	1.090	27.791		4000.	1.406	34.695	1.090	27.791			

CAST GP4-99-KA-0421 LAT 06 00.1N LONG 179 54.2W CAST GP4-99-KA-0441 LAT 07 58.7N LONG 179 50.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.602	34.296	28.602	21.670	4.	28.675	34.304	28.674	21.673
10.	28.607	34.295	28.605	21.669	11.	28.373	34.365	28.370	21.797
25.	28.612	34.295	28.606	21.668	25.	28.362	34.388	28.356	21.820
40.	28.602	34.299	28.593	21.675	41.	28.381	34.521	28.371	21.920
60.	28.498	34.750	28.484	22.045	61.	28.212	34.812	28.198	22.191
100.	27.559	34.891	27.536	22.459	100.	24.060	34.844	24.039	23.487
149.	18.917	34.756	18.890	24.853	151.	14.369	34.474	14.347	25.703
199.	10.812	34.576	10.788	26.478	200.	11.186	34.541	11.161	26.370
400.	8.569	34.621	8.526	26.895	1000.	4.437	34.557	4.358	27.397
600.	7.209	34.572	7.151	27.061	2001.	2.169	34.641	2.030	27.681
800.	5.403	34.544	5.335	27.275	3001.	1.677	34.672	1.456	27.749
1003.	4.356	34.563	4.277	27.410	4000.	1.363	34.698	1.048	27.795

CAST GP4-99-KA-0431 LAT 07 00.0N LONG 179 52.8W CAST GP4-99-KA-0451 LAT 06 00.0N LONG 169 59.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.490	34.354	28.489	21.750	2.	28.324	34.781	28.323	22.127
9.	28.497	34.364	28.495	21.755	10.	28.325	34.781	28.323	22.127
25.	28.500	34.366	28.494	21.758	25.	28.330	34.783	28.324	22.126
39.	28.508	34.371	28.499	21.762	40.	28.334	34.782	28.324	22.127
60.	28.576	34.573	28.561	21.920	61.	28.332	34.782	28.318	22.130
100.	27.922	34.944	27.899	22.383	100.	27.972	34.971	27.948	22.389
150.	16.880	34.665	16.856	25.267	150.	18.448	34.748	18.421	24.965
200.	11.197	34.646	11.172	26.465	199.	12.231	34.628	12.204	26.259
400.	8.768	34.624	8.725	26.867	400.	8.698	34.626	8.655	26.880
601.	6.929	34.552	6.872	27.084	600.	7.243	34.575	7.184	27.058
801.	5.609	34.541	5.540	27.248	801.	5.609	34.548	5.540	27.252
999.	4.576	34.555	4.496	27.379	1002.	4.506	34.560	4.426	27.391

CAST GP4-99-KA-0471 LAT 08 04.0N LONG 169 58.8W CAST GP4-99-KA-0491 LAT 10 00.3N LONG 168 14.6W

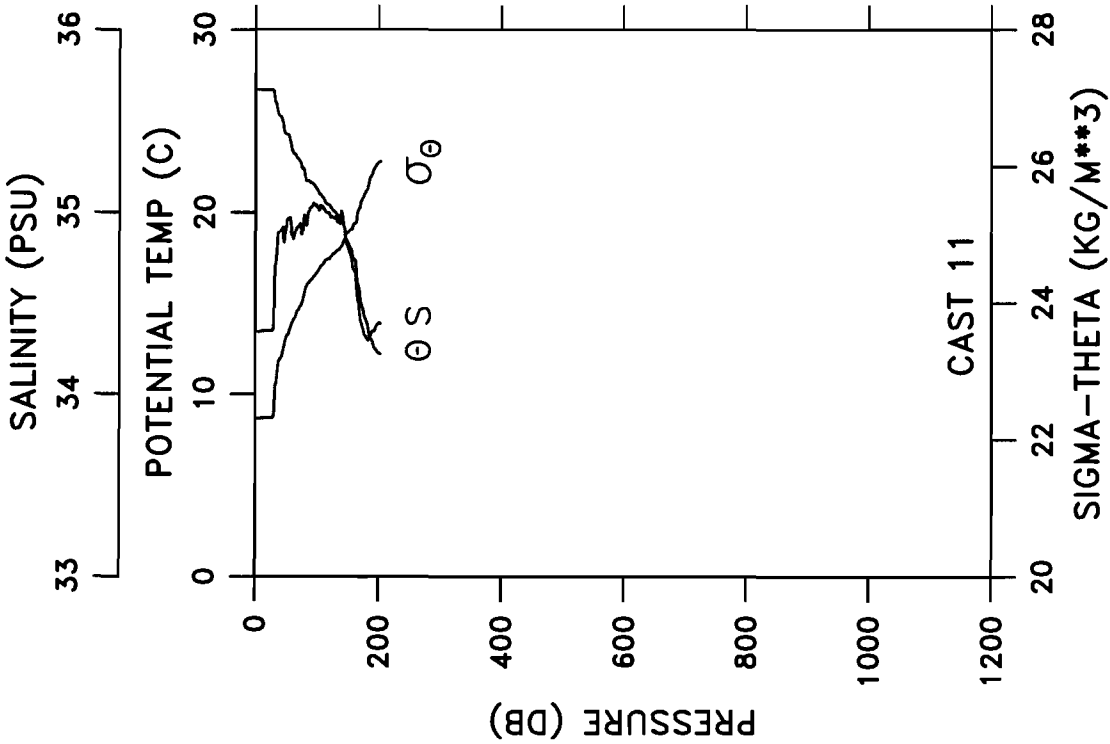
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	28.232	34.374	28.231	21.850	3.	27.819	34.095	27.818	21.776
12.	28.238	34.375	28.235	21.850	11.	27.830	34.098	27.827	21.779
26.	28.377	34.485	28.370	21.897	25.	27.897	34.347	27.891	21.941
41.	28.309	34.636	28.300	22.018	40.	27.721	34.516	27.712	22.127
60.	27.821	34.822	27.807	22.324	61.	25.659	34.670	25.646	22.916
101.	21.499	34.773	21.479	24.216	102.	21.462	34.989	21.442	24.366
150.	14.449	34.501	14.427	25.710	151.	16.814	34.700	16.789	25.333
202.	11.282	34.672	11.257	26.474	201.	11.064	34.450	11.040	26.340
1001.	4.466	34.560	4.386	27.396	402.	8.825	34.611	8.781	26.850
2002.	2.150	34.643	2.011	27.684	601.	6.744	34.536	6.687	27.097
3002.	1.660	34.674	1.440	27.753	799.	5.438	34.533	5.370	27.263
4001.	1.351	34.695	1.036	27.797	1002.	4.343	34.554	4.264	27.406

CAST GP4-99-KA-0481 LAT 09 00.4N LONG 169 07.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.112	34.410	28.111	21.917
10.	28.110	34.412	28.107	21.917
26.	28.155	34.475	28.149	21.966
40.	27.899	34.510	27.890	22.058
60.	26.998	34.634	26.985	22.446
100.	19.672	34.588	19.654	24.535
152.	11.560	34.583	11.541	26.352
201.	10.599	34.691	10.575	26.611
402.	8.756	34.625	8.712	26.871
600.	6.776	34.547	6.720	27.100
801.	5.220	34.544	5.153	27.296
1001.	4.381	34.560	4.302	27.404

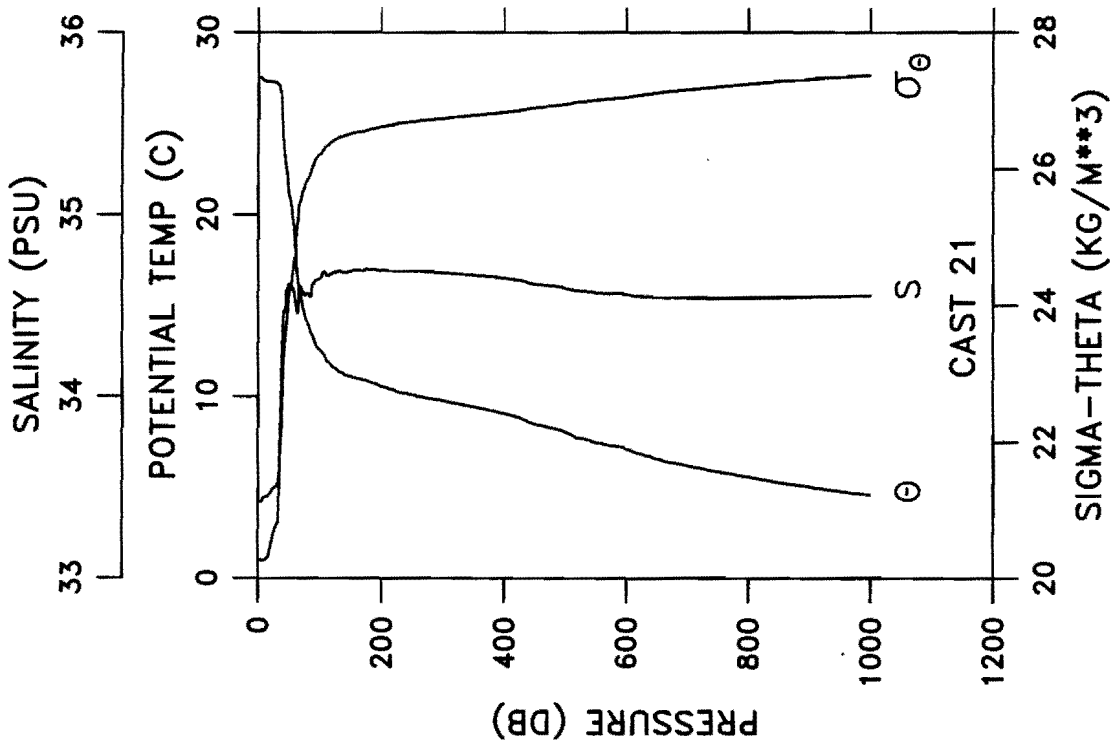
GP5-99-KA
September 12–October 5, 1999
CTD and Hydrographic Data Summary

CAST GPS-99-KA-0011 DATE 12 SEP 99 TIME 2031 GMT
 LAT 14 41.9N LONG 149 27.0W WEATHER 6 SEA STATE 3
 BAROMETER 13 WIND DIR 076 T SPD 13 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 24.7 WET 23.9 DEPTH M



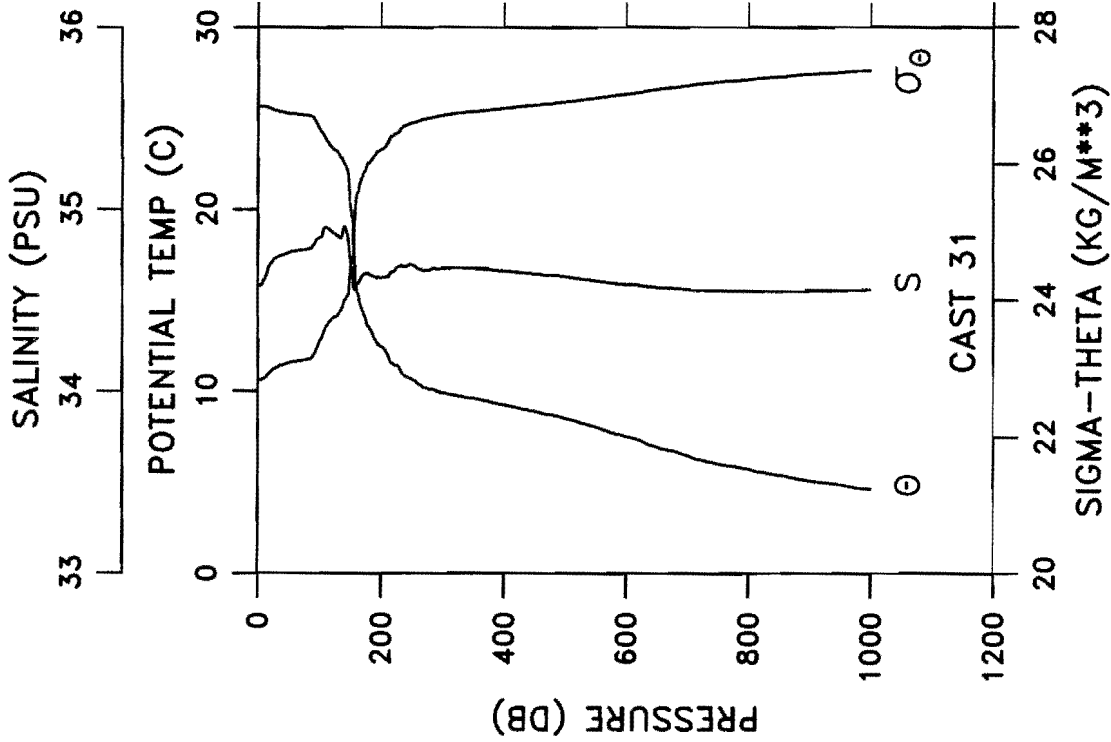
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.708	34.344	22.319	0.000
10	26.702	34.348	22.324	0.055
20	26.699	34.349	22.325	0.110
30	26.622	34.391	22.381	0.165
40	25.260	34.898	23.187	0.215
50	24.297	34.929	23.501	0.260
60	23.385	34.872	23.727	0.303
70	22.915	34.922	23.901	0.344
80	22.096	34.964	24.166	0.384
90	21.638	35.027	24.340	0.420
100	21.247	35.033	24.453	0.456
110	20.796	35.024	24.569	0.491
120	20.399	34.988	24.648	0.524
130	19.982	34.977	24.750	0.557
140	19.691	34.995	24.840	0.589
150	18.370	34.813	25.038	0.619
160	17.424	34.681	25.169	0.648
170	15.309	34.414	25.453	0.676
180	14.012	34.311	25.653	0.700
190	12.898	34.344	25.906	0.723
200	12.264	34.392	26.067	0.743
203	12.196	34.388	26.077	0.749

CAST GP5-99-KA-0021 DATE 16 SEP 99 TIME 0045 GMT
 LAT 08 59.8N LONG 140 16.1W WEATHER 2 SEA STATE 4
 BAROMETER 09 WIND DIR 226 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 25.4 WET 23.8 DEPTH 4815 M



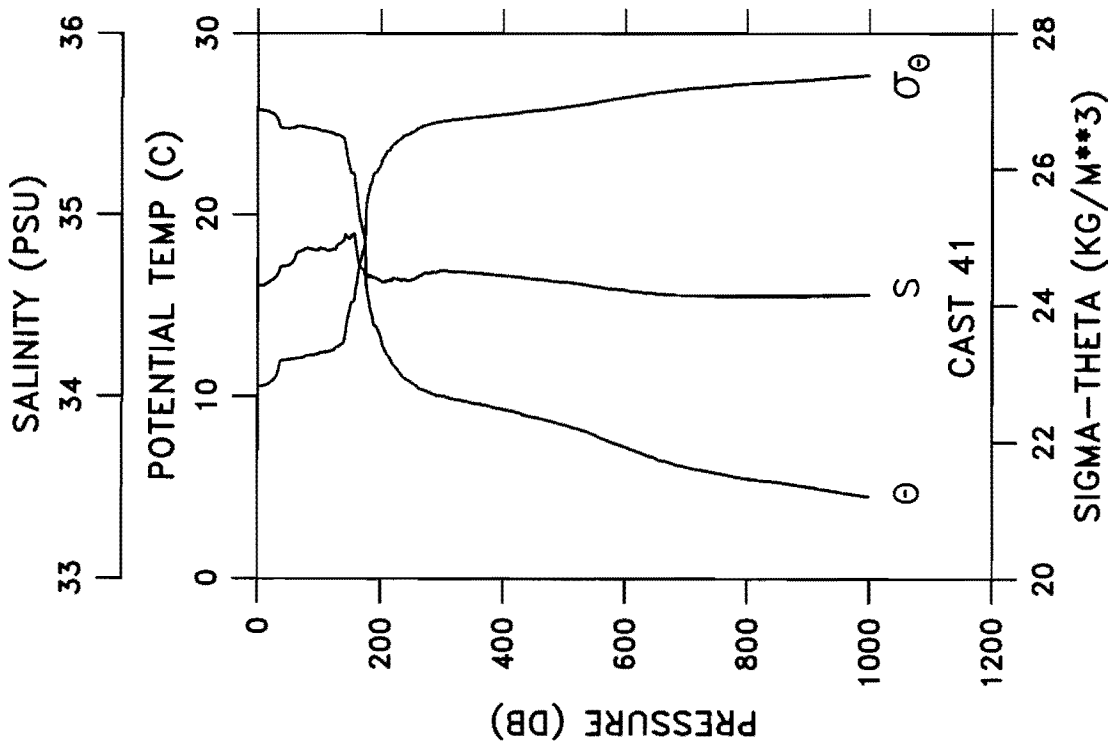
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.526	33.103	21.124	0.000
10	27.326	33.101	21.186	0.066
20	27.282	33.176	21.257	0.132
30	27.224	33.297	21.367	0.197
40	24.713	34.402	22.978	0.256
50	21.111	34.619	24.175	0.299
60	18.430	34.523	24.801	0.334
70	15.356	34.593	25.580	0.361
80	14.025	34.564	25.846	0.384
90	13.186	34.619	26.061	0.404
100	12.543	34.647	26.210	0.423
110	12.015	34.672	26.332	0.441
120	11.649	34.678	26.406	0.458
130	11.387	34.689	26.463	0.474
140	11.196	34.681	26.492	0.490
150	11.085	34.686	26.516	0.505
160	10.998	34.694	26.538	0.521
170	10.906	34.691	26.553	0.536
180	10.803	34.700	26.577	0.551
190	10.706	34.698	26.593	0.566
200	10.541	34.694	26.619	0.580
250	10.109	34.690	26.692	0.652
300	9.794	34.680	26.738	0.720
350	9.449	34.668	26.785	0.788
400	9.079	34.651	26.832	0.853
450	8.502	34.618	26.898	0.916
500	8.058	34.594	26.946	0.977
550	7.486	34.571	27.012	1.035
600	7.123	34.559	27.055	1.091
650	6.584	34.545	27.117	1.144
700	6.207	34.541	27.164	1.195
750	5.877	34.539	27.204	1.244
800	5.564	34.541	27.244	1.291
900	5.039	34.547	27.311	1.380
1000	4.584	34.554	27.369	1.464
1003	4.572	34.554	27.370	1.466

CAST GP5-99-KA-0031 DATE 16 SEP 99 TIME 1315 GMT
 LAT 06 59.7N LONG 140 06.8W WEATHER 5 SEA STATE 4
 BAROMETER 10 WIND DIR 145 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 24.6 WET 23.7 DEPTH 4948 M



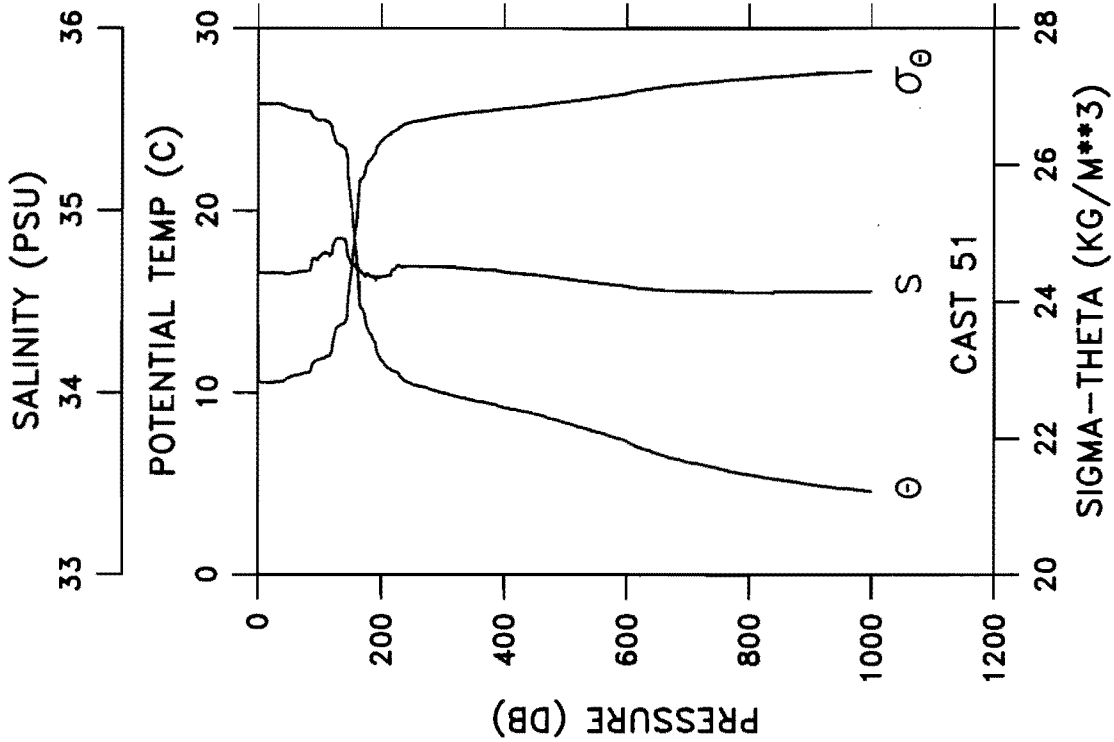
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.646	34.582	22.830	0.000
10	25.644	34.610	22.851	0.050
20	25.542	34.696	22.948	0.100
30	25.415	34.734	23.015	0.149
40	25.339	34.747	23.048	0.197
50	25.263	34.763	23.084	0.245
60	25.233	34.770	23.098	0.293
70	25.204	34.775	23.111	0.341
80	25.150	34.782	23.133	0.388
90	25.007	34.802	23.191	0.436
100	24.407	34.845	23.405	0.482
110	23.869	34.904	23.609	0.526
120	23.395	34.877	23.728	0.569
130	23.111	34.854	23.793	0.611
140	22.526	34.905	23.999	0.652
150	20.306	34.715	24.464	0.690
160	15.559	34.585	25.529	0.721
170	14.411	34.633	25.817	0.745
180	13.519	34.645	26.013	0.766
190	12.853	34.627	26.134	0.786
200	12.454	34.624	26.210	0.804
250	10.652	34.695	26.601	0.886
300	9.936	34.674	26.709	0.958
350	9.625	34.677	26.763	1.026
400	9.244	34.661	26.814	1.093
450	8.900	34.647	26.858	1.158
500	8.524	34.630	26.904	1.220
550	8.033	34.606	26.960	1.281
600	7.522	34.586	27.019	1.339
650	6.927	34.571	27.091	1.395
700	6.467	34.560	27.145	1.447
750	6.009	34.553	27.198	1.496
800	5.726	34.549	27.231	1.544
900	5.084	34.551	27.309	1.634
1000	4.649	34.557	27.364	1.718
1002	4.638	34.557	27.366	1.720

CAST GP5-99-KA-0041 DATE 16 SEP 99 TIME 1952 GMT
 LAT 06 00.2N LONG 140 03.2W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 157 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 26.2 WET 23.4 DEPTH 4797 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.761	34.609	22.815	0.000
10	25.736	34.609	22.822	0.050
20	25.643	34.633	22.869	0.101
30	25.412	34.657	22.958	0.150
40	24.778	34.713	23.193	0.198
50	24.763	34.718	23.201	0.245
60	24.809	34.755	23.216	0.292
70	24.879	34.795	23.225	0.338
80	24.800	34.811	23.261	0.385
90	24.746	34.804	23.272	0.431
100	24.664	34.810	23.301	0.478
110	24.607	34.806	23.315	0.524
120	24.530	34.804	23.336	0.570
130	24.411	34.831	23.393	0.615
140	24.223	34.855	23.467	0.660
150	22.585	34.865	23.952	0.702
160	21.305	34.822	24.277	0.741
170	19.192	34.696	24.741	0.776
180	15.330	34.662	25.639	0.805
190	13.891	34.652	25.942	0.827
200	13.232	34.634	26.063	0.848
250	10.743	34.639	26.541	0.933
300	10.024	34.689	26.706	1.005
350	9.632	34.678	26.763	1.074
400	9.284	34.663	26.808	1.141
450	8.868	34.646	26.862	1.205
500	8.456	34.629	26.913	1.268
550	7.889	34.604	26.979	1.328
600	7.242	34.584	27.057	1.384
650	6.625	34.563	27.126	1.438
700	6.147	34.557	27.184	1.488
750	5.817	34.552	27.222	1.536
800	5.495	34.550	27.260	1.582
900	5.050	34.552	27.314	1.671
1000	4.533	34.557	27.377	1.754
1000	4.533	34.557	27.377	1.754

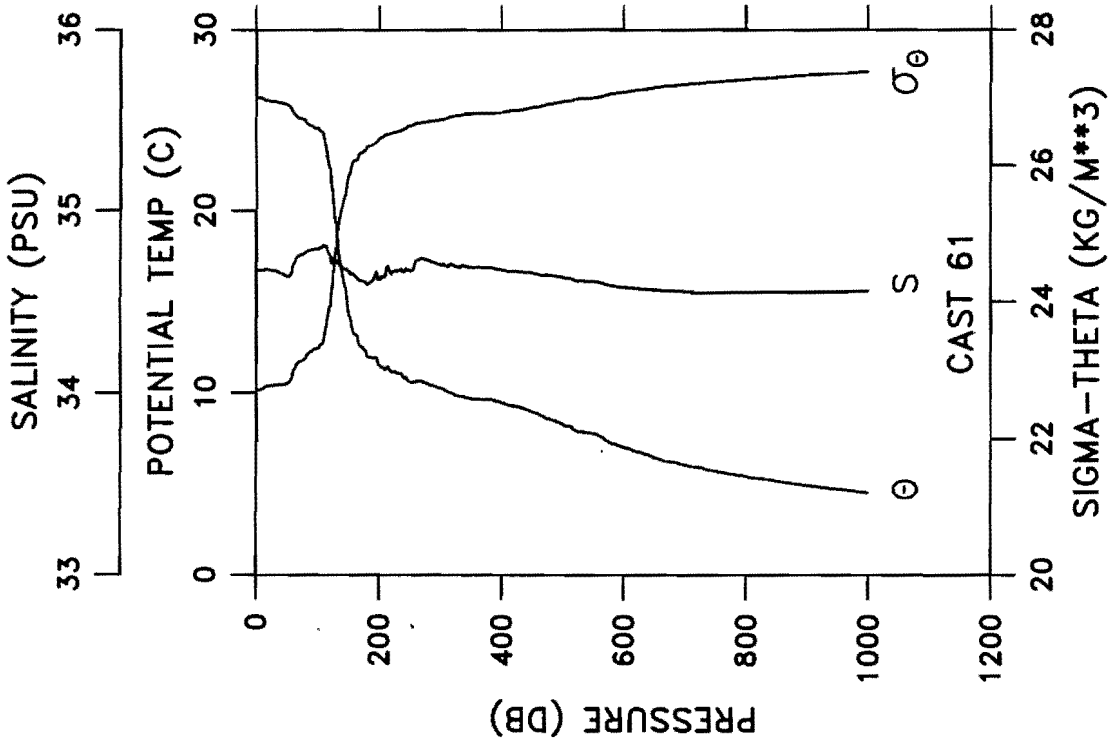
CAST GP5-99-KA-0051 DATE 17 SEP 99 TIME 0540 GMT
 LAT 04 54.1N LONG 139 53.8W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 140 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.5 WET 24.5 DEPTH 4481 M



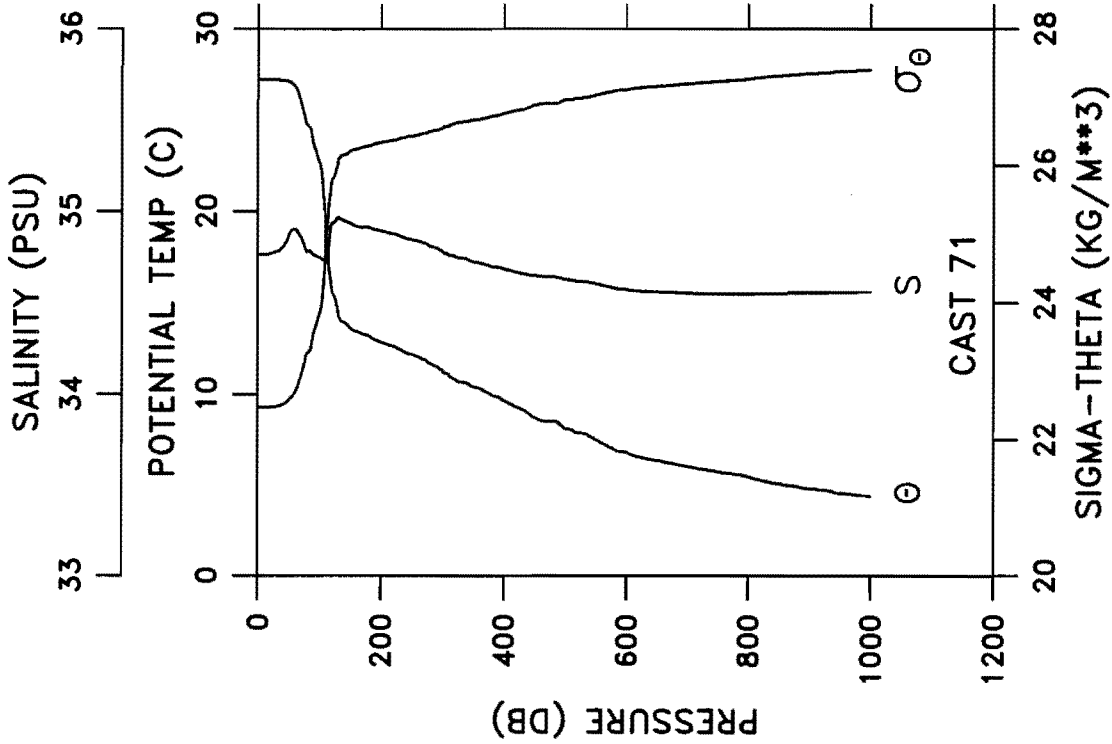
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.853	34.662	22.826	0.000
10	25.855	34.659	22.823	0.050
20	25.851	34.659	22.825	0.101
30	25.839	34.659	22.828	0.151
40	25.809	34.658	22.836	0.201
50	25.616	34.654	22.894	0.251
60	25.540	34.661	22.922	0.301
70	25.489	34.666	22.941	0.350
80	25.432	34.670	22.962	0.400
90	25.094	34.739	23.118	0.448
100	24.962	34.746	23.163	0.496
110	24.890	34.770	23.202	0.543
120	24.530	34.769	23.310	0.590
130	23.635	34.849	23.636	0.634
140	23.455	34.842	23.683	0.677
150	20.726	34.719	24.356	0.717
160	17.459	34.680	25.160	0.749
170	14.538	34.657	25.808	0.774
180	13.350	34.647	26.049	0.795
190	12.748	34.632	26.158	0.814
200	11.782	34.639	26.350	0.832
250	10.484	34.699	26.633	0.910
300	10.012	34.692	26.710	0.982
350	9.592	34.679	26.770	1.050
400	9.207	34.665	26.822	1.116
450	8.877	34.648	26.863	1.181
500	8.383	34.626	26.922	1.243
550	7.892	34.606	26.981	1.302
600	7.353	34.586	27.044	1.359
650	6.683	34.568	27.122	1.413
700	6.184	34.560	27.182	1.463
750	5.839	34.557	27.223	1.511
800	5.507	34.552	27.260	1.558
900	4.958	34.554	27.327	1.645
1000	4.586	34.560	27.374	1.728
1500	2.919	34.608	27.579	2.077
2000	2.075	34.644	27.681	2.354
2500	1.694	34.666	27.728	2.597
3000	1.450	34.677	27.755	2.830
3500	1.225	34.687	27.778	3.051
4000	1.083	34.693	27.793	3.267
4004	1.082	34.693	27.793	3.269

CAST GP5-99-KA-0061 DATE 18 SEP 99 TIME 0118 GMT
 LAT 04 00.0N LONG 139 57.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 149 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.3 WET 22.7 DEPTH 4309 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.252	34.676	22.712	0.000
10	26.197	34.672	22.727	0.051
20	26.069	34.675	22.769	0.102
30	26.030	34.671	22.778	0.153
40	25.959	34.655	22.788	0.204
50	25.863	34.638	22.805	0.255
60	25.430	34.700	22.985	0.305
70	25.111	34.750	23.121	0.353
80	24.992	34.766	23.169	0.400
90	24.691	34.783	23.273	0.447
100	24.559	34.789	23.316	0.493
110	24.077	34.811	23.477	0.539
120	22.376	34.757	23.929	0.581
130	18.993	34.721	24.811	0.617
140	16.500	34.686	25.392	0.645
150	14.362	34.665	25.852	0.669
160	13.206	34.641	26.074	0.690
170	12.547	34.614	26.184	0.709
180	12.025	34.593	26.269	0.728
190	11.904	34.617	26.310	0.745
200	11.514	34.629	26.393	0.763
250	10.612	34.669	26.587	0.842
300	10.271	34.702	26.673	0.915
350	9.686	34.688	26.761	0.984
400	9.462	34.675	26.789	1.051
450	8.965	34.657	26.856	1.117
500	8.286	34.633	26.943	1.179
550	7.810	34.611	26.997	1.237
600	7.038	34.579	27.082	1.293
650	6.457	34.565	27.150	1.345
700	6.057	34.556	27.195	1.394
750	5.722	34.551	27.233	1.441
800	5.435	34.549	27.266	1.487
900	4.918	34.553	27.331	1.574
1000	4.504	34.559	27.382	1.656
1003	4.488	34.559	27.384	1.659



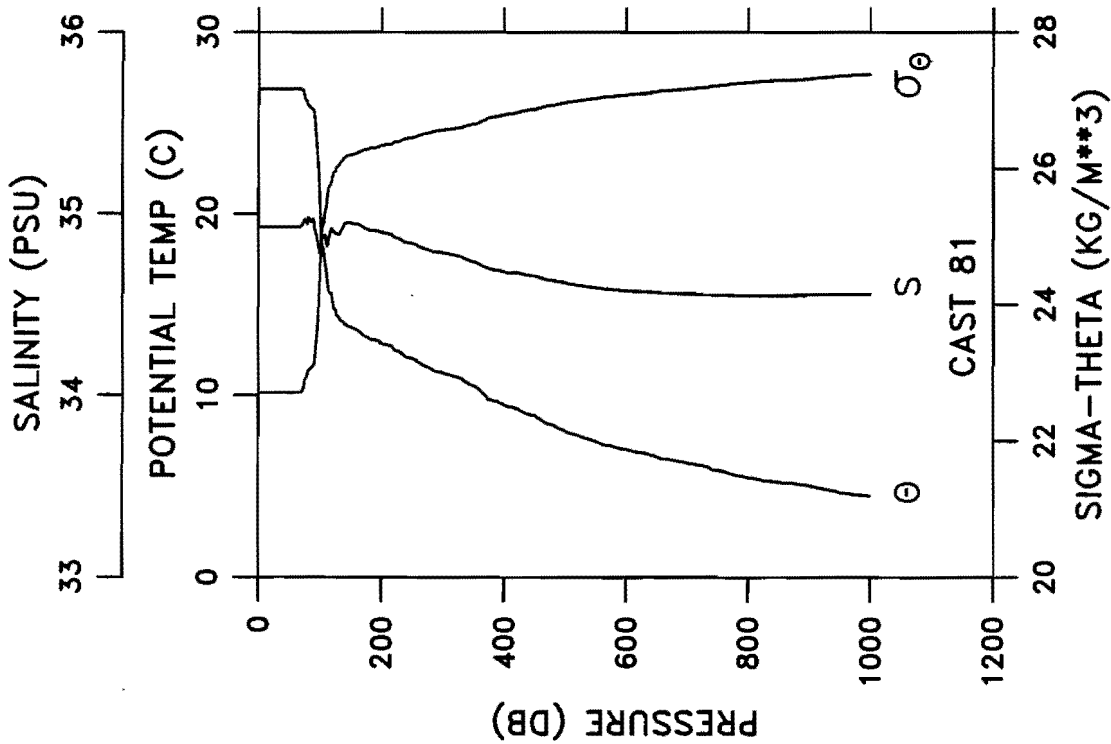
CAST GP5-99-KA-0071 DATE 18 SEP 99 TIME 0757 GMT
 LAT 03 00.2N LONG 139 58.2W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 133 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.6 WET 21.5 DEPTH 4291 M



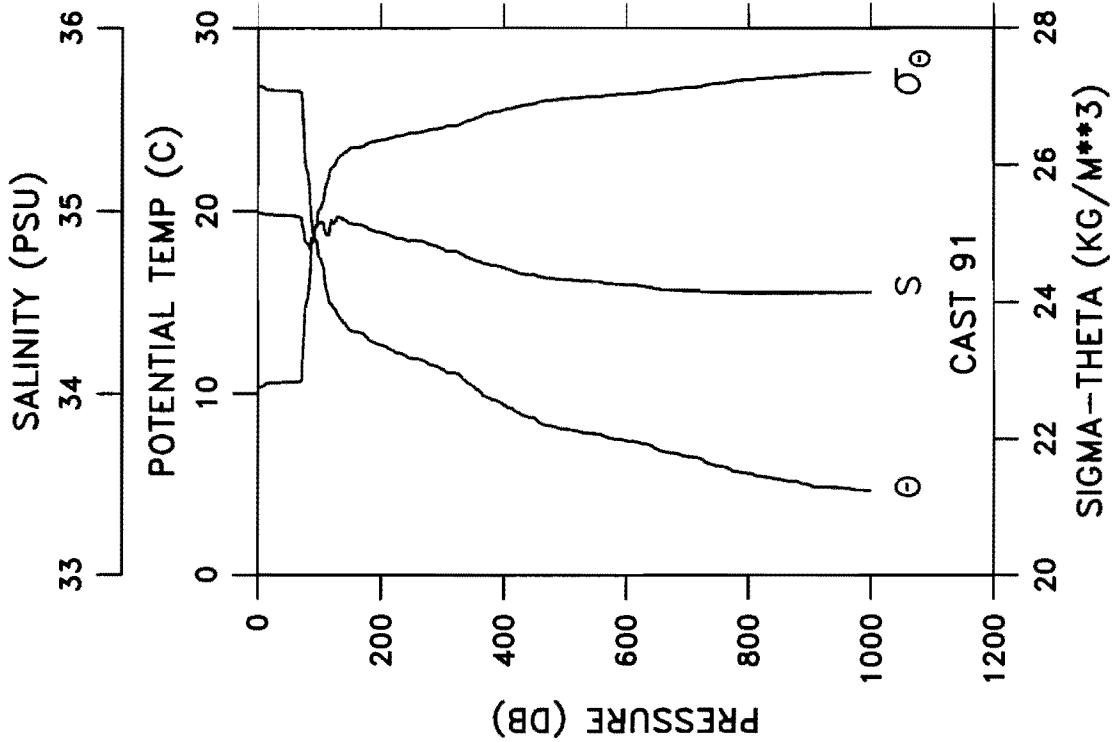
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.218	34.769	22.476	0.000
10	27.217	34.767	22.475	0.054
20	27.212	34.770	22.479	0.107
30	27.207	34.782	22.489	0.161
40	27.175	34.806	22.518	0.214
50	27.113	34.865	22.582	0.267
60	26.854	34.904	22.694	0.320
70	25.973	34.861	22.939	0.370
80	24.711	34.783	23.266	0.418
90	23.756	34.765	23.537	0.464
100	22.670	34.751	23.841	0.506
110	19.128	34.729	24.782	0.544
120	15.646	34.934	25.778	0.570
130	14.496	34.961	26.052	0.592
140	13.943	34.950	26.161	0.611
150	13.635	34.937	26.215	0.630
160	13.449	34.920	26.240	0.648
170	13.309	34.913	26.264	0.666
180	13.211	34.916	26.286	0.684
190	12.996	34.901	26.318	0.701
200	12.862	34.894	26.339	0.719
250	12.192	34.846	26.433	0.804
300	11.314	34.783	26.550	0.884
350	10.411	34.726	26.667	0.958
400	9.644	34.688	26.769	1.029
450	8.744	34.653	26.888	1.094
500	8.124	34.630	26.965	1.155
550	7.518	34.606	27.036	1.213
600	6.801	34.576	27.112	1.266
650	6.345	34.563	27.163	1.317
700	6.006	34.555	27.201	1.366
750	5.711	34.552	27.235	1.413
800	5.432	34.551	27.268	1.459
900	4.794	34.556	27.347	1.544
1000	4.368	34.562	27.399	1.624
1004	4.355	34.561	27.400	1.627

CAST GPS-99-KA-0081 DATE 18 SEP 99 TIME 1603 GMT
 LAT 02 00.5N LONG 139 52.7W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 120 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.0 WET 22.0 DEPTH 4367 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.848	34.926	22.713	0.000
10	26.853	34.925	22.710	0.051
20	26.854	34.925	22.710	0.103
30	26.857	34.925	22.709	0.154
40	26.854	34.925	22.710	0.206
50	26.858	34.926	22.709	0.257
60	26.853	34.926	22.711	0.309
70	26.825	34.935	22.726	0.360
80	25.978	34.973	23.022	0.411
90	25.637	34.959	23.117	0.459
100	20.468	34.755	24.452	0.502
110	16.899	34.853	25.426	0.530
120	15.160	34.906	25.865	0.553
130	14.293	34.885	26.037	0.574
140	13.888	34.942	26.166	0.594
150	13.753	34.947	26.199	0.612
160	13.593	34.942	26.228	0.631
170	13.328	34.925	26.269	0.649
180	13.134	34.907	26.295	0.666
190	13.042	34.906	26.312	0.684
200	12.847	34.896	26.344	0.701
250	12.048	34.835	26.452	0.786
300	11.227	34.783	26.565	0.864
350	10.529	34.735	26.654	0.940
400	9.494	34.680	26.787	1.009
450	8.902	34.656	26.865	1.074
500	8.076	34.620	26.964	1.135
550	7.482	34.593	27.030	1.192
600	7.043	34.576	27.079	1.247
650	6.629	34.567	27.128	1.299
700	6.272	34.557	27.168	1.350
750	5.881	34.552	27.214	1.399
800	5.469	34.548	27.262	1.445
900	5.025	34.549	27.315	1.533
1000	4.475	34.558	27.384	1.615
1003	4.454	34.558	27.386	1.618



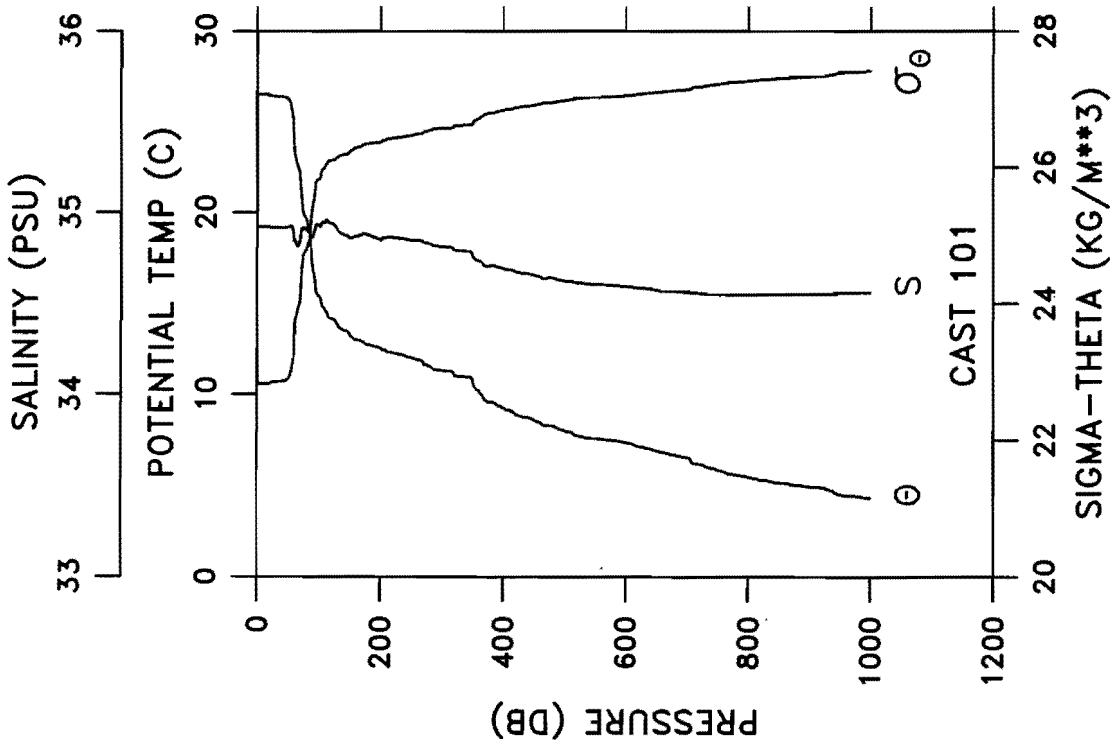
CAST GP5-99-KA-0091 DATE 19 SEP 99 TIME 0009 GMT
 LAT 01 30.1N LONG 139 59.7W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 145 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.7 WET 22.1 DEPTH 4448 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.843	34.990	22.762	0.000
10	26.745	34.984	22.789	0.051
20	26.627	34.980	22.824	0.101
30	26.609	34.978	22.827	0.152
40	26.595	34.977	22.831	0.202
50	26.582	34.976	22.834	0.252
60	26.559	34.973	22.839	0.303
70	26.472	34.963	22.859	0.353
80	22.193	34.824	24.031	0.397
90	18.809	34.839	24.948	0.432
100	17.448	34.940	25.362	0.460
110	15.885	34.880	25.682	0.485
120	14.879	34.947	25.958	0.507
130	14.310	34.968	26.098	0.527
140	13.871	34.953	26.179	0.546
150	13.477	34.932	26.244	0.565
160	13.402	34.928	26.256	0.583
170	13.319	34.923	26.269	0.601
180	12.949	34.903	26.329	0.618
190	12.802	34.891	26.348	0.636
200	12.689	34.884	26.366	0.653
250	11.956	34.840	26.473	0.736
300	11.368	34.795	26.549	0.815
350	10.431	34.735	26.671	0.891
400	9.392	34.690	26.812	0.959
450	8.668	34.651	26.898	1.022
500	8.042	34.625	26.973	1.082
550	7.797	34.615	27.002	1.140
600	7.404	34.594	27.042	1.196
650	6.929	34.574	27.093	1.251
700	6.527	34.563	27.139	1.303
750	6.017	34.555	27.199	1.353
800	5.628	34.550	27.244	1.401
900	4.986	34.552	27.322	1.489
1000	4.666	34.555	27.360	1.573
1001	4.656	34.555	27.362	1.574

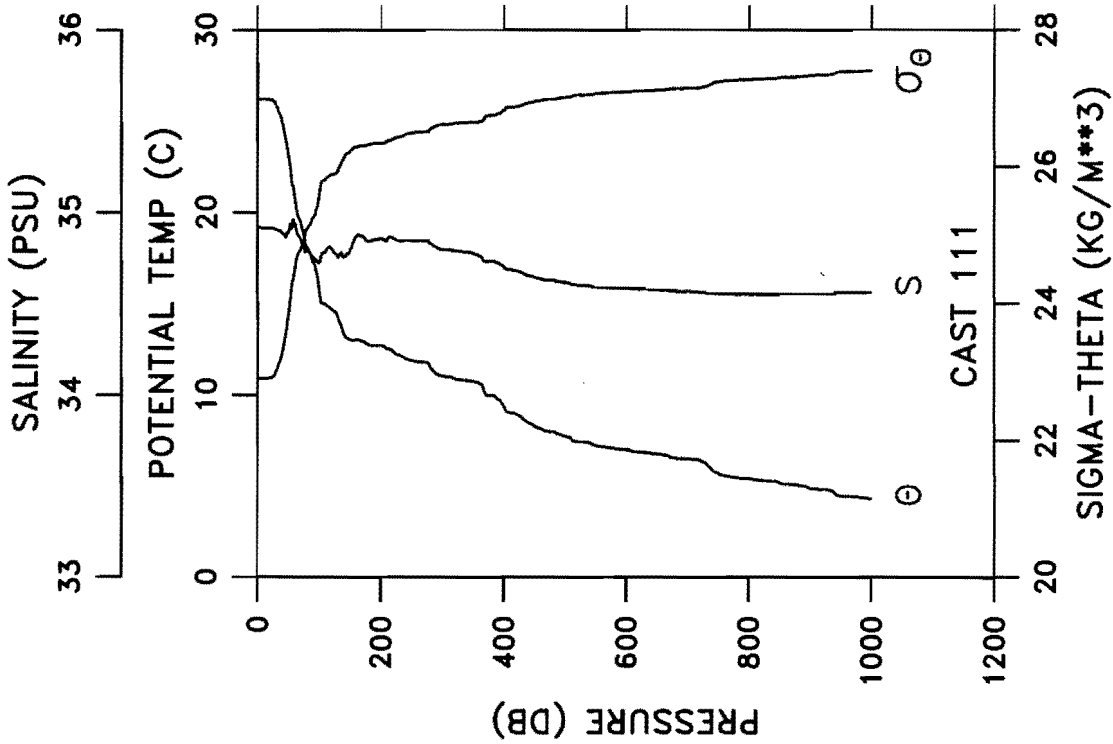
CAST GP5-99--KA-0101 DATE 19 SEP 99 TIME 0443 GMT
 LAT 01 00.2N LONG 140 01.4W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 116 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 24.5 WET 21.7 DEPTH 4389 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.484	34.919	22.822	0.000
10	26.482	34.920	22.824	0.050
20	26.437	34.917	22.836	0.101
30	26.390	34.916	22.850	0.151
40	26.359	34.915	22.859	0.201
50	26.258	34.918	22.893	0.251
60	23.981	34.840	23.528	0.299
70	21.936	34.849	24.122	0.340
80	19.616	34.900	24.787	0.373
90	16.949	34.859	25.419	0.403
100	15.415	34.929	25.826	0.426
110	14.644	34.943	26.006	0.447
120	14.178	34.939	26.103	0.467
130	13.858	34.907	26.146	0.486
140	13.538	34.877	26.189	0.505
150	13.301	34.859	26.223	0.523
160	13.008	34.869	26.291	0.541
170	12.920	34.877	26.315	0.559
180	12.746	34.876	26.348	0.576
190	12.655	34.864	26.357	0.593
200	12.566	34.850	26.363	0.610
250	12.025	34.847	26.466	0.693
300	11.317	34.814	26.573	0.771
350	10.707	34.762	26.643	0.846
400	9.256	34.694	26.838	0.914
450	8.618	34.659	26.912	0.977
500	8.021	34.624	26.976	1.036
550	7.608	34.608	27.024	1.093
600	7.365	34.595	27.049	1.149
650	6.905	34.575	27.097	1.203
700	6.535	34.563	27.138	1.255
750	5.840	34.552	27.219	1.304
800	5.446	34.549	27.265	1.350
900	4.924	34.551	27.328	1.437
1000	4.287	34.562	27.407	1.518
1003	4.283	34.561	27.408	1.520



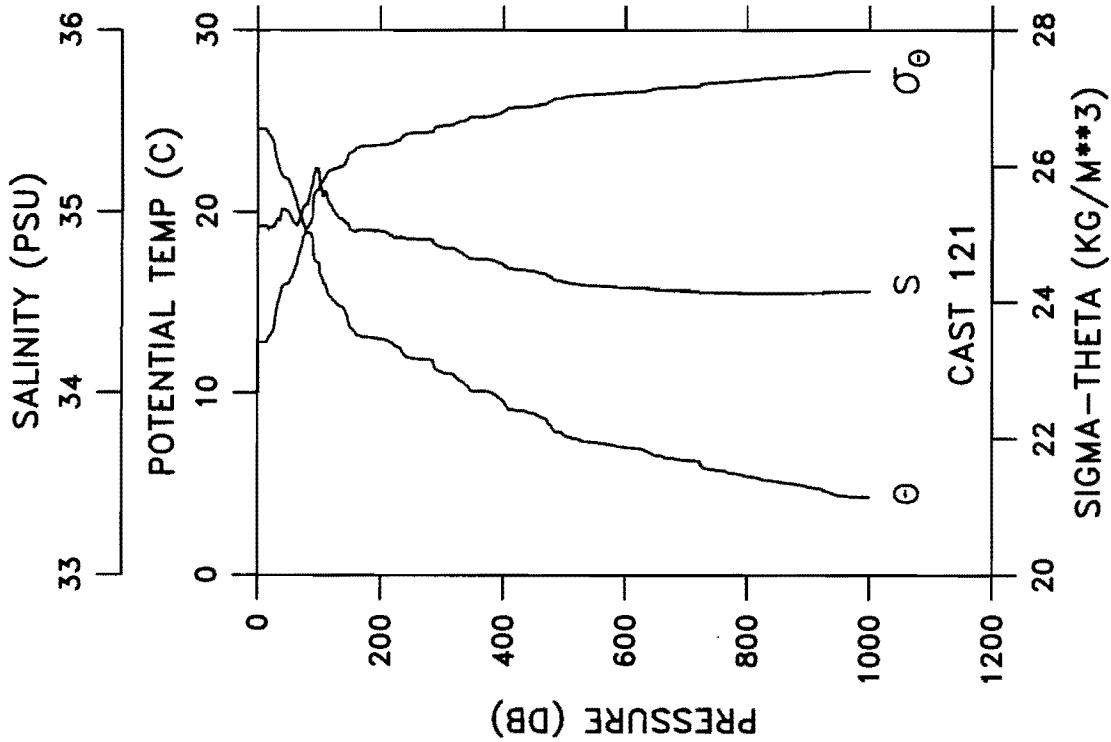
CAST GP5-99-KA-0111 DATE 19 SEP 99 TIME 0917 GMT
 LAT 00 30.2N LONG 140 02.9W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 121 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 21.9 DEPTH 4345 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.182	34.918	22.917	0.000
10	26.182	34.916	22.915	0.049
20	26.166	34.915	22.919	0.099
30	25.838	34.906	23.015	0.148
40	24.920	34.887	23.282	0.195
50	23.113	34.892	23.821	0.239
60	20.914	34.940	24.473	0.277
70	19.462	34.850	24.789	0.310
80	18.091	34.793	25.092	0.340
90	17.274	34.755	25.262	0.368
100	15.753	34.722	25.590	0.394
110	14.970	34.781	25.811	0.417
120	14.711	34.803	25.884	0.439
130	14.292	34.753	25.935	0.460
140	13.318	34.752	26.137	0.480
150	13.006	34.794	26.233	0.498
160	13.006	34.867	26.289	0.516
170	12.918	34.867	26.307	0.534
180	12.732	34.840	26.323	0.551
190	12.698	34.850	26.338	0.569
200	12.703	34.856	26.341	0.586
250	11.869	34.846	26.495	0.669
300	11.037	34.796	26.610	0.747
350	10.746	34.774	26.646	0.821
400	9.379	34.699	26.822	0.890
450	8.317	34.644	26.947	0.952
500	7.749	34.616	27.010	1.010
550	7.209	34.591	27.068	1.065
600	6.988	34.584	27.093	1.119
650	6.758	34.576	27.118	1.171
700	6.482	34.567	27.148	1.222
750	5.702	34.555	27.239	1.272
800	5.400	34.551	27.272	1.317
900	4.857	34.553	27.337	1.404
1000	4.297	34.562	27.406	1.484
1003	4.288	34.562	27.407	1.486



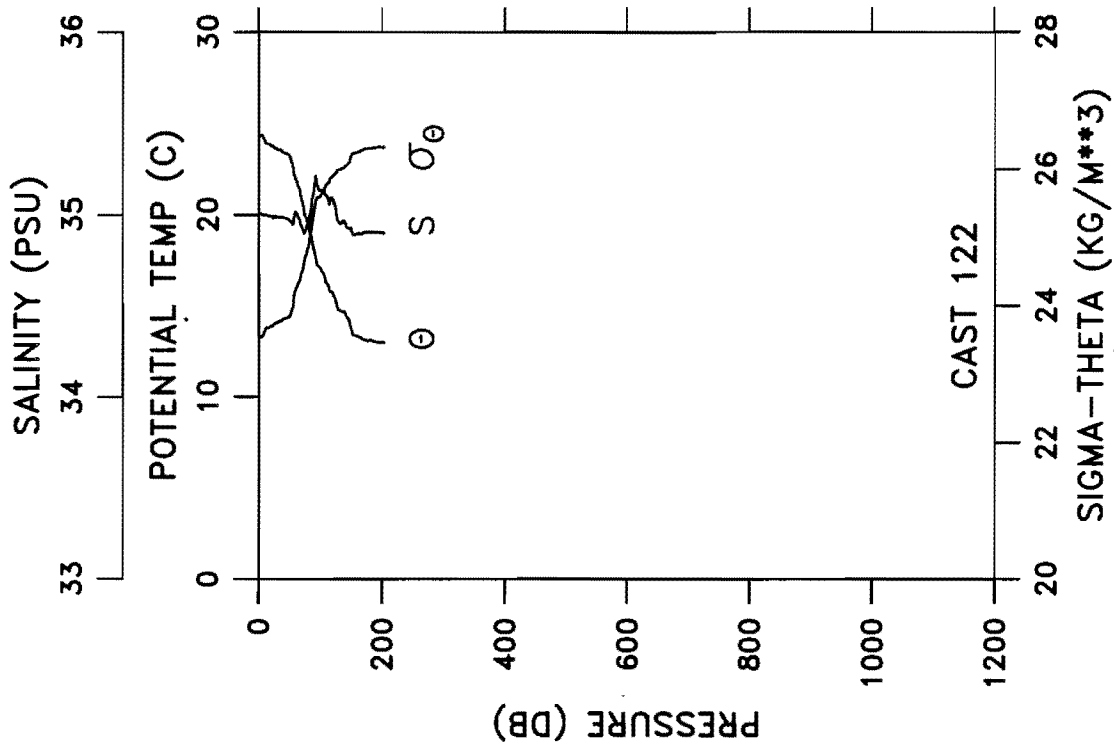
CAST GP5-99-KA-0121 DATE 20 SEP 99 TIME 0710 GMT
 LAT 00 02.6N LONG 140 06.1W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 071 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 23.8 WET 21.5 DEPTH 4323 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.560	34.921	23.416	0.000
10	24.565	34.920	23.414	0.045
20	24.194	34.912	23.519	0.089
30	23.066	34.947	23.876	0.131
40	22.000	35.018	24.233	0.170
50	21.758	34.998	24.286	0.207
60	20.843	34.933	24.487	0.242
70	19.787	34.983	24.806	0.275
80	18.801	35.038	25.102	0.306
90	17.954	35.161	25.408	0.334
100	16.992	35.203	25.673	0.358
110	15.965	35.112	25.842	0.380
120	15.237	35.030	25.944	0.401
130	14.880	34.974	25.979	0.422
140	14.607	34.952	26.021	0.442
150	13.584	34.903	26.199	0.462
160	13.207	34.896	26.271	0.480
170	13.092	34.900	26.297	0.498
180	13.073	34.899	26.300	0.515
190	13.004	34.892	26.309	0.533
200	12.978	34.893	26.315	0.551
250	11.923	34.850	26.487	0.635
300	11.157	34.803	26.594	0.714
350	10.120	34.740	26.729	0.787
400	9.547	34.709	26.801	0.856
450	8.867	34.671	26.882	0.919
500	7.671	34.612	27.018	0.979
550	7.299	34.593	27.056	1.034
600	7.022	34.583	27.087	1.088
650	6.568	34.571	27.140	1.140
700	6.314	34.562	27.167	1.191
750	5.760	34.553	27.230	1.239
800	5.434	34.550	27.267	1.285
900	4.849	34.552	27.337	1.372
1000	4.301	34.560	27.404	1.451
1500	2.918	34.605	27.577	1.797
2000	2.155	34.641	27.671	2.079
2500	1.693	34.664	27.727	2.325
3000	1.479	34.674	27.750	2.557
3500	1.237	34.687	27.778	2.783
4000	1.092	34.695	27.794	2.999
4005	1.092	34.694	27.794	3.001

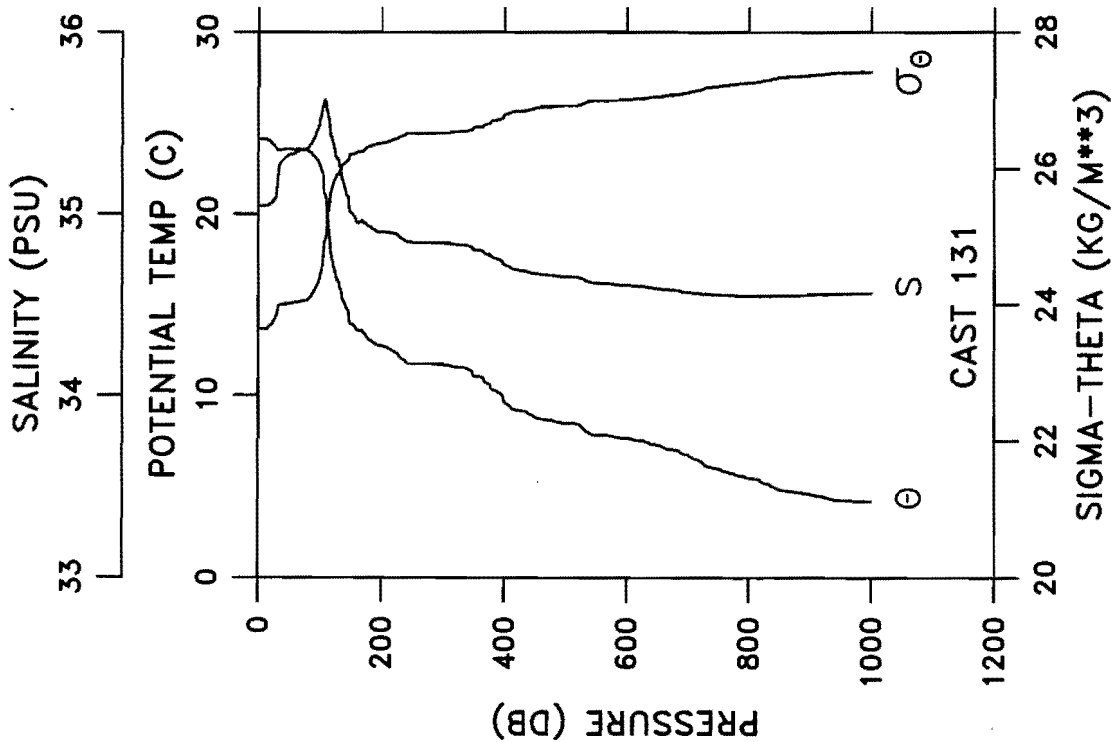


CAST GP5-99-KA-0122 DATE 21 SEP 99 TIME 0348 GMT
 LAT 00 02.1N LONG 139 53.5W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 094 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 24.2 WET 22.2 DEPTH 4350 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.328	35.006	23.550	0.000
10	24.007	34.999	23.640	0.043
20	23.786	34.992	23.700	0.085
30	23.599	34.990	23.753	0.127
40	23.400	34.985	23.808	0.168
50	23.204	34.967	23.851	0.209
60	21.903	35.016	24.259	0.248
70	20.759	34.927	24.505	0.284
80	19.507	34.954	24.857	0.316
90	18.016	35.157	25.389	0.345
100	17.058	35.134	25.604	0.370
110	16.203	35.103	25.781	0.393
120	15.623	35.082	25.898	0.415
130	14.767	34.959	25.992	0.436
140	14.551	34.954	26.035	0.456
150	13.680	34.917	26.191	0.475
160	13.327	34.895	26.246	0.494
170	13.164	34.902	26.284	0.512
180	13.102	34.905	26.299	0.529
190	13.021	34.904	26.315	0.547
200	13.007	34.901	26.316	0.564
203	12.995	34.899	26.316	0.570



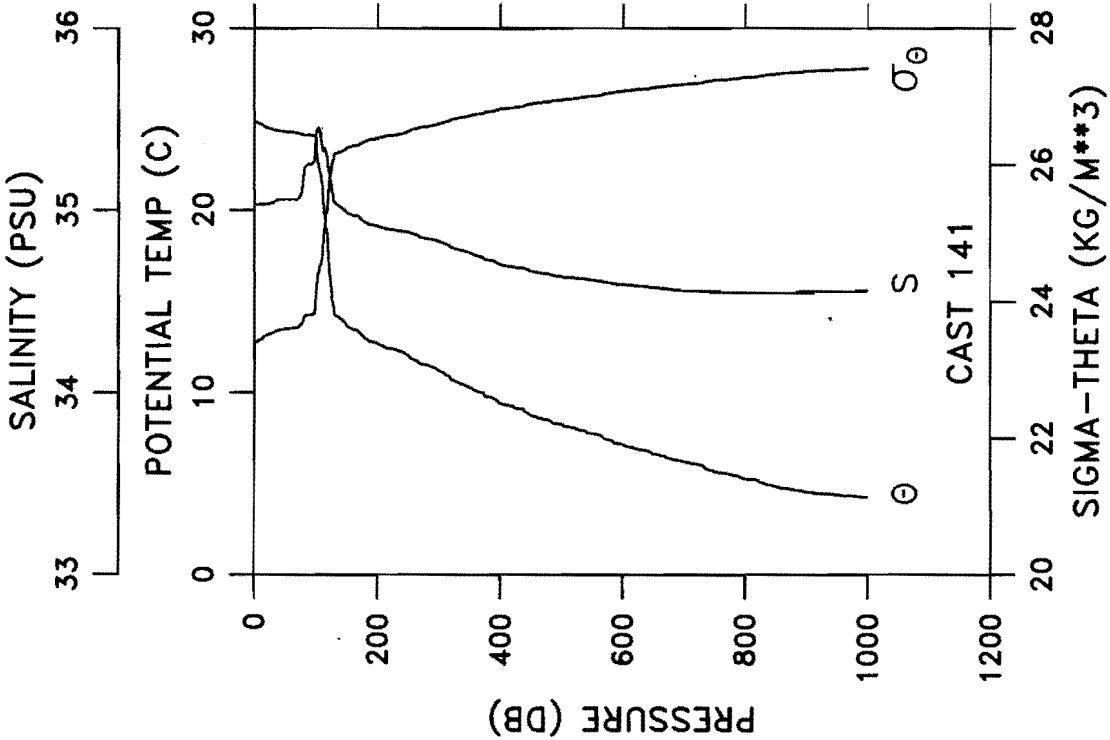
CAST GP5-99-KA-0131 DATE 21 SEP 99 TIME 1136 GMT
 LAT 00 59.6S LONG 139 54.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 080 T SPD 09 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 23.6 WET 22.4 DEPTH 4214 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.115	35.044	23.643	0.000
10	24.114	35.043	23.642	0.042
20	23.930	35.059	23.709	0.085
30	23.578	35.130	23.866	0.126
40	23.549	35.297	24.001	0.165
50	23.578	35.325	24.014	0.205
60	23.547	35.335	24.030	0.244
70	23.539	35.354	24.047	0.283
80	23.498	35.360	24.064	0.321
90	23.180	35.415	24.198	0.360
100	22.660	35.514	24.423	0.396
110	20.787	35.613	25.020	0.429
120	17.391	35.410	25.736	0.455
130	16.245	35.294	25.919	0.476
140	15.008	35.145	26.083	0.497
150	13.912	35.007	26.212	0.516
160	13.580	34.952	26.238	0.534
170	13.481	34.954	26.260	0.552
180	13.053	34.928	26.327	0.570
190	12.839	34.908	26.354	0.587
200	12.709	34.900	26.374	0.604
250	11.764	34.844	26.513	0.686
300	11.703	34.838	26.520	0.765
350	11.102	34.805	26.606	0.843
400	9.683	34.720	26.787	0.916
450	8.825	34.669	26.888	0.980
500	8.497	34.653	26.926	1.042
550	7.833	34.619	27.000	1.101
600	7.652	34.607	27.016	1.159
650	7.288	34.588	27.054	1.215
700	6.745	34.567	27.113	1.269
750	5.967	34.554	27.205	1.319
800	5.477	34.547	27.260	1.366
900	4.590	34.553	27.367	1.450
1000	4.183	34.562	27.419	1.527
1003	4.178	34.562	27.419	1.529

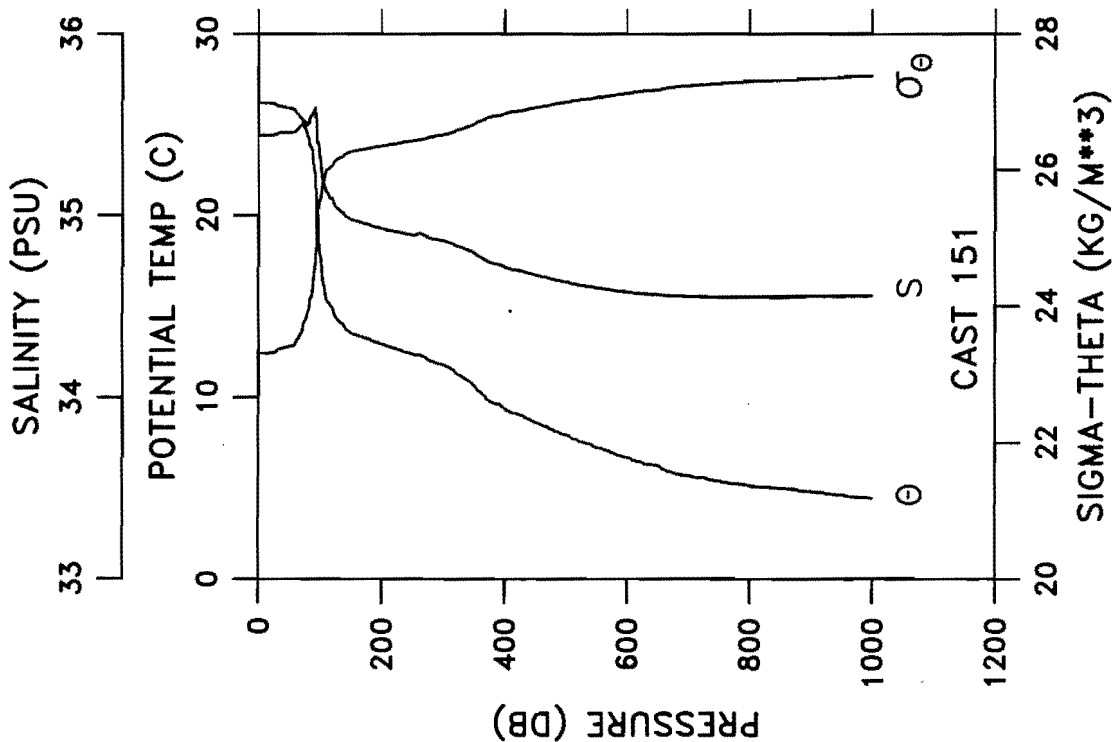
CAST GP5-99-KA-0141 DATE 22 SEP 99 TIME 0212 GMT
 LAT 01 59.9S LONG 139 57.6W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 089 T SPD 09 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 25.6 WET 23.9 DEPTH 4322 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.861	35.030	23.408	0.000
10	24.751	35.030	23.441	0.045
20	24.522	35.034	23.513	0.089
30	24.423	35.038	23.546	0.132
40	24.342	35.056	23.584	0.176
50	24.297	35.061	23.601	0.219
60	24.269	35.059	23.608	0.262
70	24.228	35.059	23.620	0.305
80	24.105	35.197	23.762	0.347
90	24.110	35.252	23.801	0.388
100	23.463	35.389	24.096	0.429
110	21.485	35.358	24.635	0.465
120	17.579	35.238	25.559	0.493
130	14.293	35.045	26.161	0.514
140	14.026	35.016	26.195	0.533
150	13.654	34.987	26.250	0.552
160	13.463	34.970	26.276	0.569
170	13.348	34.963	26.294	0.587
180	12.976	34.932	26.346	0.605
190	12.801	34.918	26.370	0.622
200	12.705	34.911	26.383	0.639
250	12.040	34.878	26.487	0.721
300	11.239	34.830	26.600	0.798
350	10.299	34.766	26.718	0.871
400	9.421	34.702	26.817	0.939
450	8.772	34.666	26.893	1.003
500	8.286	34.637	26.946	1.064
550	7.782	34.617	27.008	1.122
600	7.166	34.593	27.075	1.178
650	6.647	34.576	27.133	1.230
700	6.221	34.560	27.177	1.281
750	5.674	34.551	27.239	1.329
800	5.296	34.547	27.282	1.374
900	4.558	34.551	27.370	1.458
1000	4.278	34.559	27.406	1.537
1003	4.261	34.560	27.409	1.539



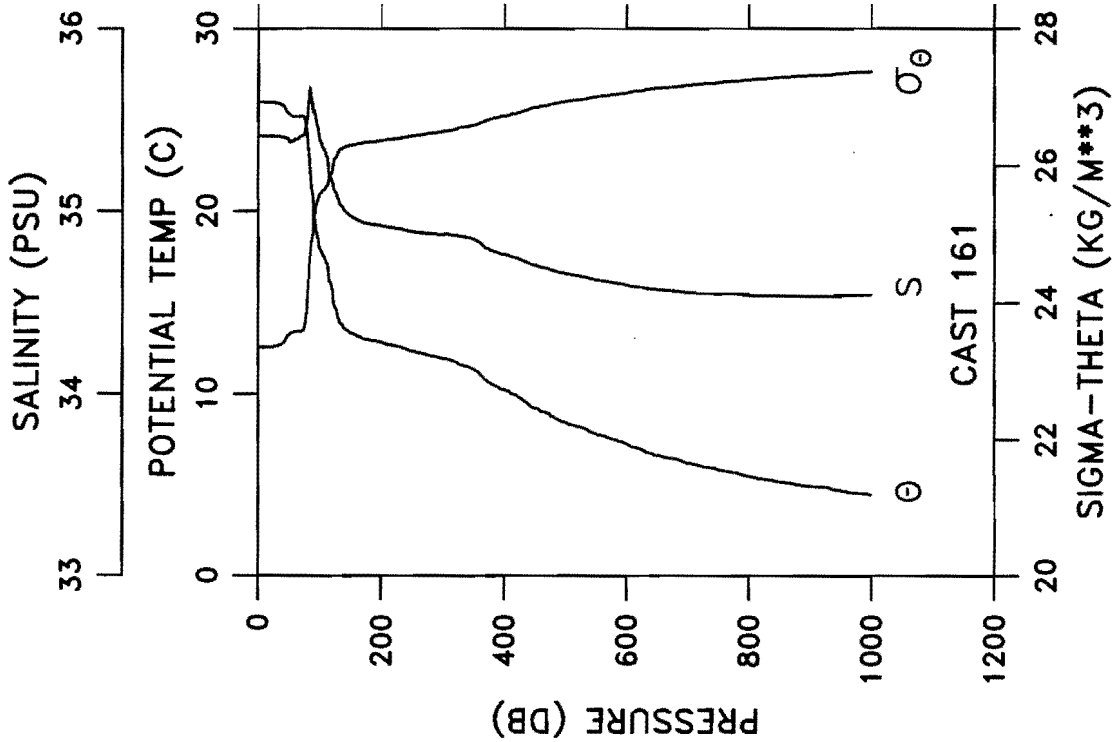
CAST GPS-99-KA-0151 DATE 22 SEP 99 TIME 0927 GMT
 LAT 02 59.7S LONG 139 56.4W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 070 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.1 WET 22.8 DEPTH 4307 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.188	35.444	23.312	0.000
10	26.187	35.443	23.311	0.046
20	26.167	35.444	23.318	0.091
30	26.065	35.449	23.354	0.137
40	25.973	35.458	23.389	0.182
50	25.917	35.457	23.406	0.227
60	25.752	35.464	23.463	0.272
70	25.323	35.497	23.620	0.315
80	24.351	35.509	23.924	0.357
90	22.630	35.569	24.473	0.395
100	17.811	35.319	25.564	0.424
110	15.347	35.134	26.000	0.446
120	14.866	35.089	26.071	0.466
130	14.184	35.033	26.174	0.485
140	13.827	35.001	26.225	0.504
150	13.516	34.977	26.271	0.522
160	13.379	34.966	26.290	0.540
170	13.269	34.957	26.306	0.557
180	13.169	34.948	26.319	0.575
190	13.008	34.934	26.341	0.592
200	12.906	34.927	26.356	0.609
250	12.378	34.892	26.433	0.694
300	11.786	34.859	26.521	0.775
350	10.655	34.793	26.677	0.851
400	9.401	34.716	26.831	0.918
450	8.633	34.672	26.919	0.981
500	7.941	34.633	26.995	1.040
550	7.242	34.600	27.070	1.096
600	6.682	34.578	27.130	1.148
650	6.233	34.563	27.178	1.198
700	5.678	34.553	27.240	1.245
750	5.404	34.549	27.270	1.290
800	5.133	34.547	27.301	1.333
900	4.805	34.553	27.343	1.418
1000	4.431	34.557	27.388	1.499
1003	4.425	34.557	27.389	1.501

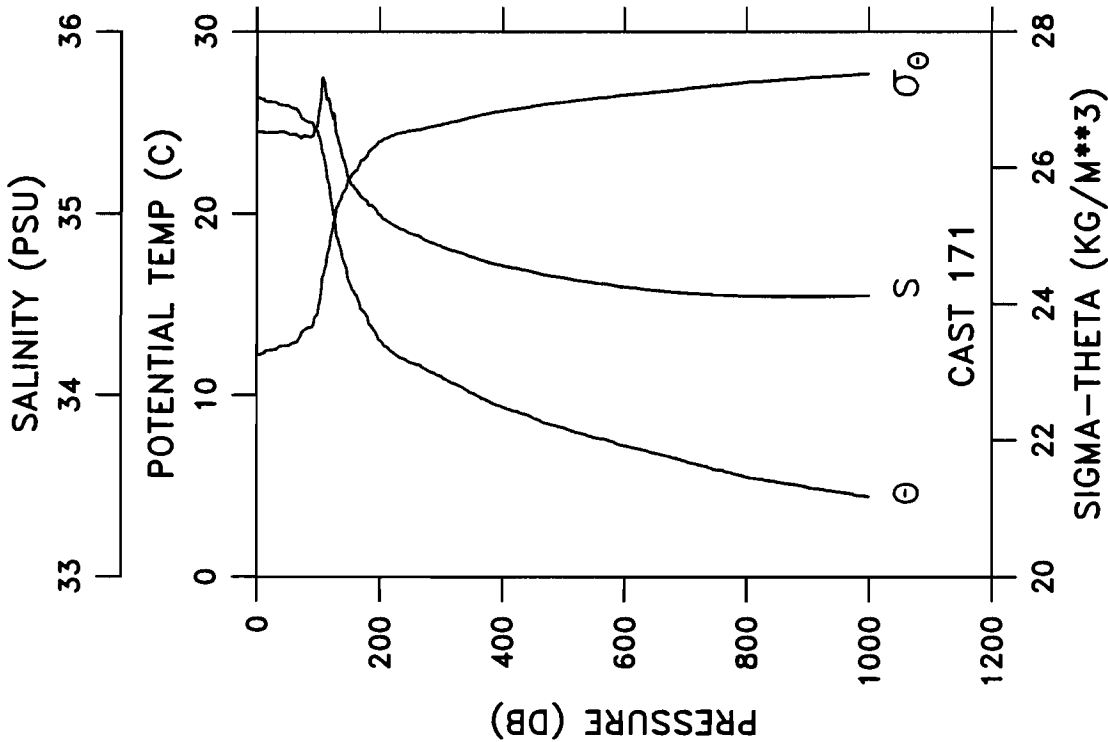


CAST GP5-99-KA-0161 DATE 22 SEP 99 TIME 1627 GMT
 LAT 03 59.7S LONG 139 55.5W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 060 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 25.2 WET 23.0 DEPTH 4509 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.982	35.414	23.354	0.000
10	25.975	35.413	23.354	0.045
20	25.970	35.412	23.355	0.090
30	25.917	35.410	23.370	0.136
40	25.784	35.406	23.409	0.181
50	25.342	35.387	23.531	0.225
60	25.197	35.396	23.582	0.268
70	25.212	35.413	23.590	0.312
80	23.887	35.536	24.083	0.354
90	20.056	35.552	25.169	0.387
100	17.948	35.386	25.582	0.412
110	17.258	35.306	25.689	0.436
120	15.816	35.162	25.915	0.458
130	14.153	35.060	26.202	0.478
140	13.593	35.004	26.276	0.496
150	13.359	34.973	26.300	0.514
160	13.198	34.953	26.317	0.531
170	13.040	34.936	26.336	0.549
180	12.970	34.930	26.346	0.566
190	12.912	34.926	26.354	0.583
200	12.824	34.919	26.366	0.600
250	12.352	34.888	26.435	0.684
300	11.941	34.871	26.501	0.766
350	11.362	34.849	26.592	0.844
400	10.255	34.766	26.726	0.916
450	9.241	34.707	26.850	0.984
500	8.466	34.661	26.937	1.046
550	7.826	34.627	27.007	1.105
600	7.273	34.598	27.064	1.161
650	6.634	34.574	27.133	1.214
700	6.200	34.558	27.178	1.264
750	5.846	34.550	27.216	1.312
800	5.488	34.542	27.255	1.359
900	4.931	34.540	27.319	1.447
1000	4.441	34.546	27.378	1.530
1003	4.401	34.546	27.382	1.533



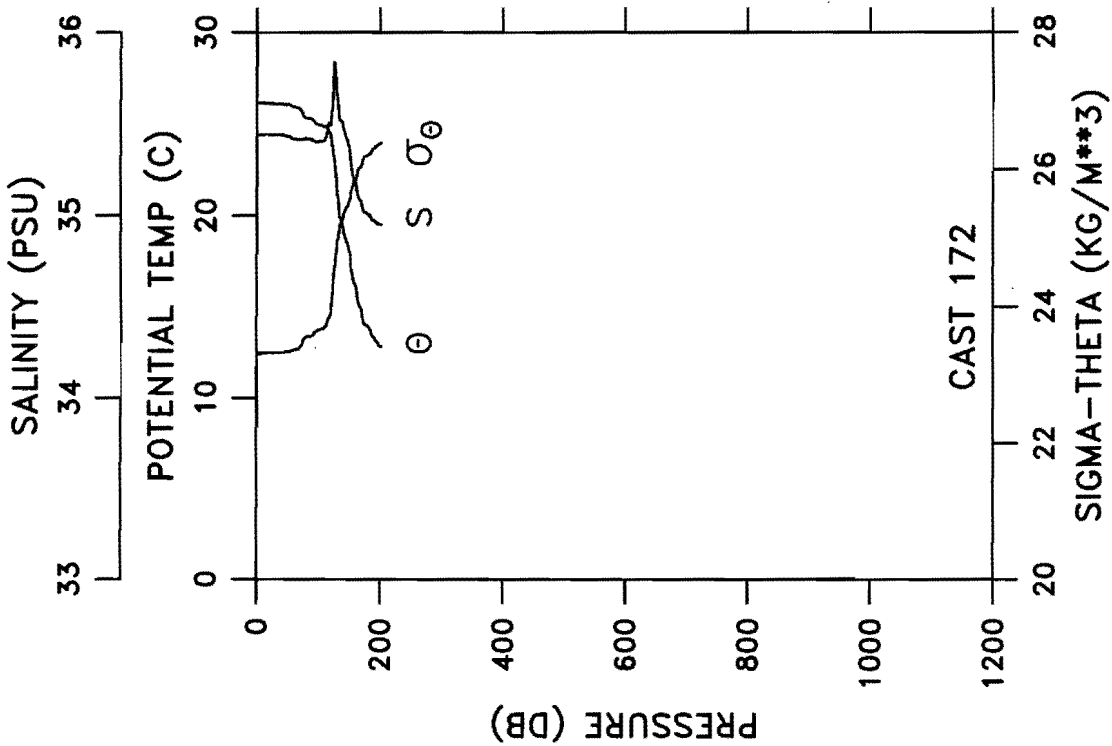
CAST GP5-99-KA-0171 DATE 23 SEP 99 TIME 0411 GMT
 LAT 04 59.3S LONG 139 58.0W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 060 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 25.2 WET 22.5 DEPTH 4272 M



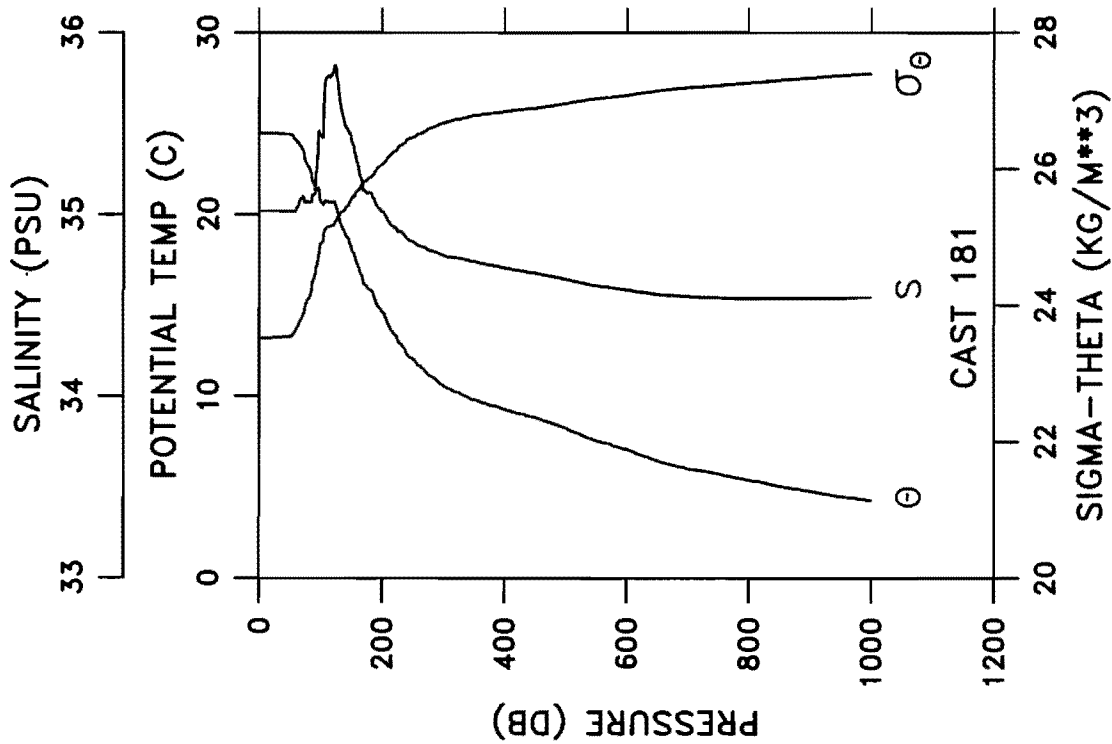
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.348	35.450	23.266	0.000
10	26.281	35.447	23.284	0.046
20	26.144	35.444	23.325	0.092
30	26.113	35.444	23.335	0.137
40	25.965	35.450	23.366	0.182
50	25.928	35.440	23.390	0.227
60	25.778	35.434	23.432	0.272
70	25.433	35.421	23.529	0.317
80	25.074	35.423	23.640	0.360
90	24.968	35.424	23.673	0.403
100	24.270	35.544	23.974	0.444
110	22.858	35.719	24.521	0.481
120	20.748	35.566	24.994	0.513
130	18.676	35.426	25.431	0.541
140	17.415	35.299	25.645	0.566
150	16.195	35.181	25.843	0.589
160	15.517	35.133	25.960	0.611
170	14.693	35.088	26.108	0.631
180	14.206	35.059	26.190	0.650
190	13.556	35.033	26.308	0.668
200	12.990	34.991	26.389	0.685
250	11.791	34.890	26.544	0.765
300	11.023	34.819	26.631	0.841
350	10.116	34.761	26.746	0.912
400	9.361	34.713	26.835	0.978
450	8.751	34.675	26.904	1.041
500	8.209	34.646	26.964	1.101
550	7.662	34.618	27.024	1.159
600	7.213	34.597	27.072	1.214
650	6.793	34.577	27.114	1.268
700	6.345	34.562	27.162	1.319
750	5.885	34.553	27.214	1.368
800	5.491	34.546	27.257	1.414
900	4.908	34.543	27.324	1.503
1000	4.408	34.549	27.384	1.585
1500	2.776	34.606	27.591	1.924
2000	2.108	34.643	27.677	2.199
2500	1.740	34.662	27.721	2.449
3000	1.467	34.678	27.754	2.681
3500	1.277	34.686	27.774	2.906
4000	1.101	34.695	27.794	3.124
4006	1.101	34.695	27.793	3.127

CAST GP5-99-KA-0172 DATE 23 SEP 99 TIME 1905 GMT
 LAT 05 00.35 LONG 139 55.0W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 047 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.4 WET 22.4 DEPTH 4339 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.169	35.443	23.317	0.000
10	26.147	35.443	23.323	0.046
20	26.122	35.443	23.331	0.091
30	26.116	35.442	23.333	0.137
40	26.100	35.441	23.337	0.182
50	26.046	35.432	23.347	0.228
60	25.934	35.417	23.371	0.273
70	25.818	35.416	23.406	0.318
80	25.326	35.420	23.561	0.362
90	25.229	35.413	23.585	0.406
100	24.953	35.403	23.662	0.449
110	24.844	35.415	23.704	0.491
120	24.392	35.494	23.900	0.533
130	21.169	35.654	24.947	0.568
140	19.279	35.475	25.314	0.597
150	18.078	35.369	25.536	0.623
160	16.182	35.173	25.840	0.646
170	14.807	35.059	26.061	0.666
180	13.934	35.008	26.208	0.685
190	13.321	34.974	26.308	0.703
200	12.862	34.951	26.383	0.720
202	12.810	34.948	26.391	0.724



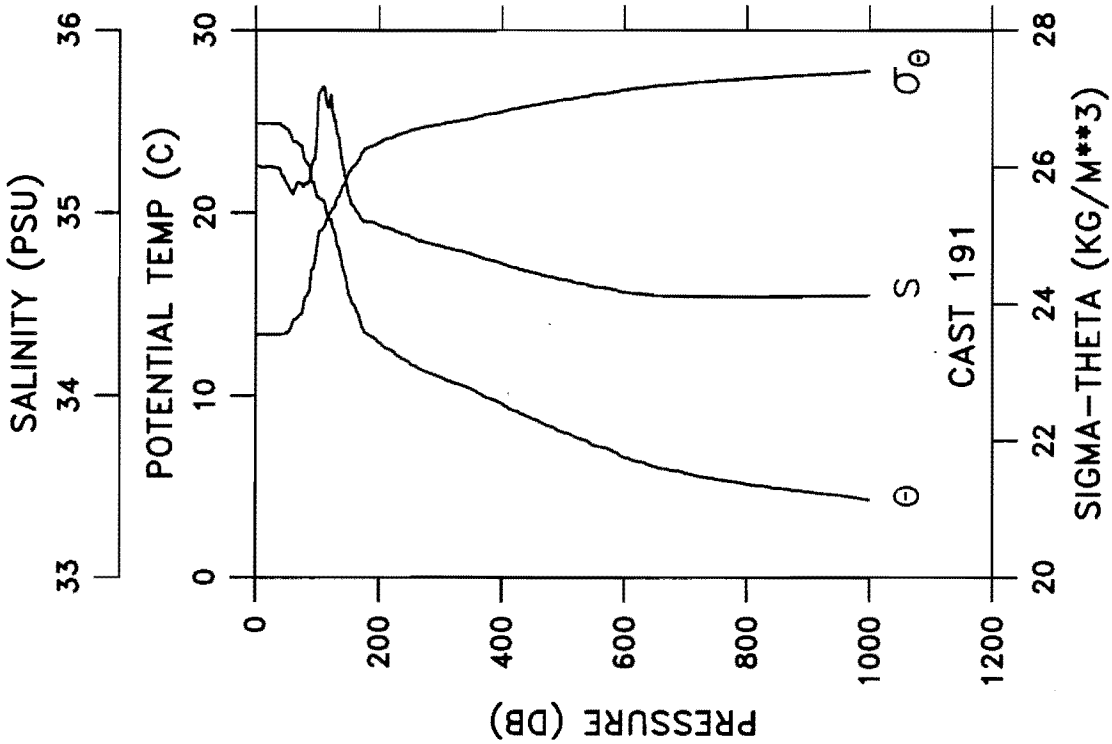
CAST GP5-99-KA-0181 DATE 28 SEP 99 TIME 0541 GMT
 LAT 07 58.2S LONG 125 00.9W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 103 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 24.8 WET 21.7 DEPTH 4544 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.469	35.024	23.521	0.000
10	24.471	35.022	23.519	0.044
20	24.462	35.021	23.522	0.087
30	24.454	35.021	23.524	0.131
40	24.414	35.019	23.534	0.175
50	24.400	35.019	23.539	0.218
60	24.037	35.027	23.653	0.261
70	23.582	35.095	23.838	0.303
80	22.631	35.069	24.094	0.343
90	21.600	35.108	24.413	0.380
100	20.702	35.432	24.905	0.413
110	20.722	35.752	25.143	0.442
120	20.693	35.781	25.173	0.471
130	19.789	35.655	25.318	0.499
140	18.888	35.481	25.419	0.525
150	18.113	35.410	25.559	0.550
160	17.197	35.276	25.680	0.575
170	16.159	35.133	25.814	0.598
180	15.841	35.119	25.876	0.620
190	15.132	35.052	25.983	0.641
200	14.603	35.015	26.071	0.661
250	12.054	34.848	26.461	0.751
300	10.590	34.772	26.672	0.827
350	9.814	34.738	26.779	0.896
400	9.281	34.704	26.842	0.961
450	8.828	34.676	26.892	1.024
500	8.238	34.643	26.958	1.085
550	7.565	34.607	27.029	1.143
600	7.087	34.585	27.080	1.197
650	6.458	34.560	27.146	1.250
700	5.995	34.548	27.197	1.299
750	5.736	34.542	27.224	1.346
800	5.381	34.538	27.264	1.392
900	4.794	34.538	27.333	1.479
1000	4.264	34.546	27.397	1.560
1005	4.236	34.545	27.400	1.564

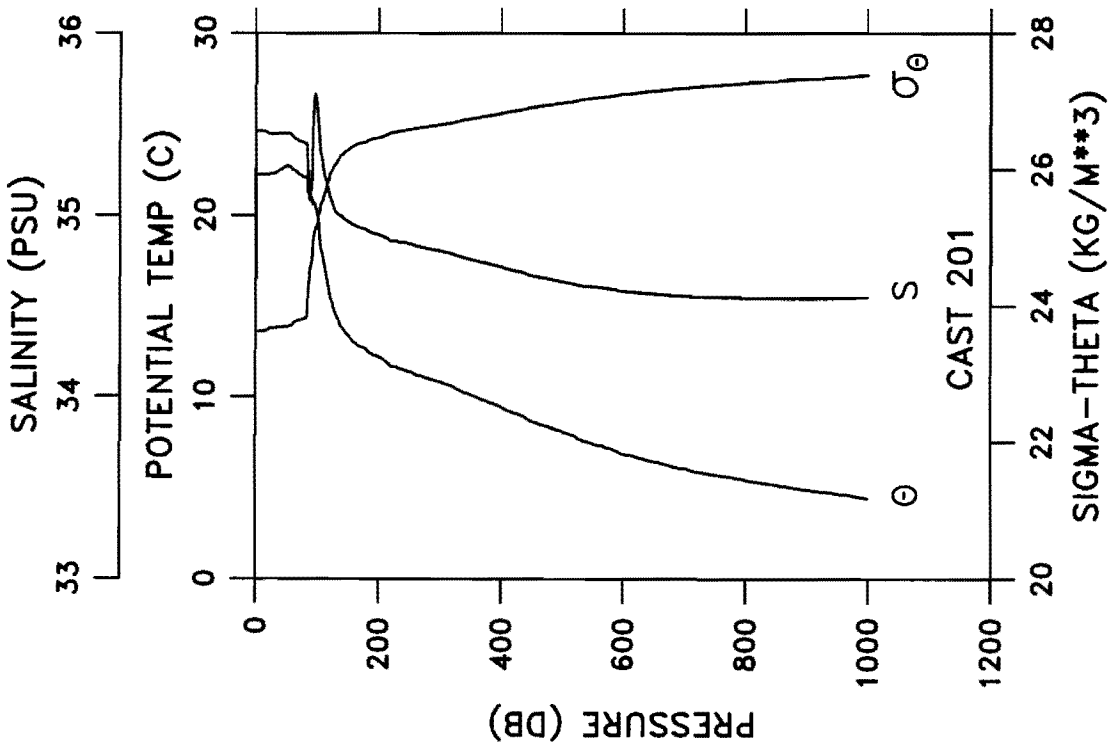
CAST GP5-99-KA-0191 DATE 28 SEP 99 TIME 1317 GMT
 LAT 07 00.35 LONG 125 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 095 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 24.2 WET 21.6 DEPTH 4637 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.927	35.257	23.559	0.000
10	24.895	35.250	23.564	0.043
20	24.899	35.253	23.564	0.086
30	24.886	35.249	23.565	0.130
40	24.854	35.236	23.566	0.173
50	24.589	35.161	23.589	0.216
60	23.923	35.101	23.742	0.259
70	23.759	35.164	23.838	0.300
80	22.836	35.159	24.103	0.340
90	21.698	35.241	24.487	0.378
100	20.832	35.450	24.884	0.411
110	20.664	35.691	25.113	0.440
120	19.615	35.808	25.328	0.468
130	18.521	35.468	25.502	0.494
140	17.078	35.272	25.705	0.519
150	15.712	35.102	25.893	0.541
160	14.901	35.028	26.016	0.562
170	14.038	34.971	26.158	0.582
180	13.387	34.950	26.277	0.600
190	13.226	34.950	26.309	0.618
200	12.929	34.933	26.356	0.635
250	11.812	34.871	26.525	0.717
300	11.030	34.818	26.629	0.792
350	10.397	34.774	26.707	0.864
400	9.570	34.724	26.810	0.932
450	8.738	34.675	26.906	0.996
500	7.992	34.633	26.987	1.056
550	7.252	34.597	27.066	1.112
600	6.600	34.567	27.132	1.165
650	6.086	34.550	27.186	1.214
700	5.728	34.545	27.228	1.262
750	5.411	34.543	27.264	1.307
800	5.133	34.542	27.297	1.351
900	4.706	34.544	27.347	1.436
1000	4.275	34.552	27.401	1.516
1003	4.262	34.552	27.402	1.518

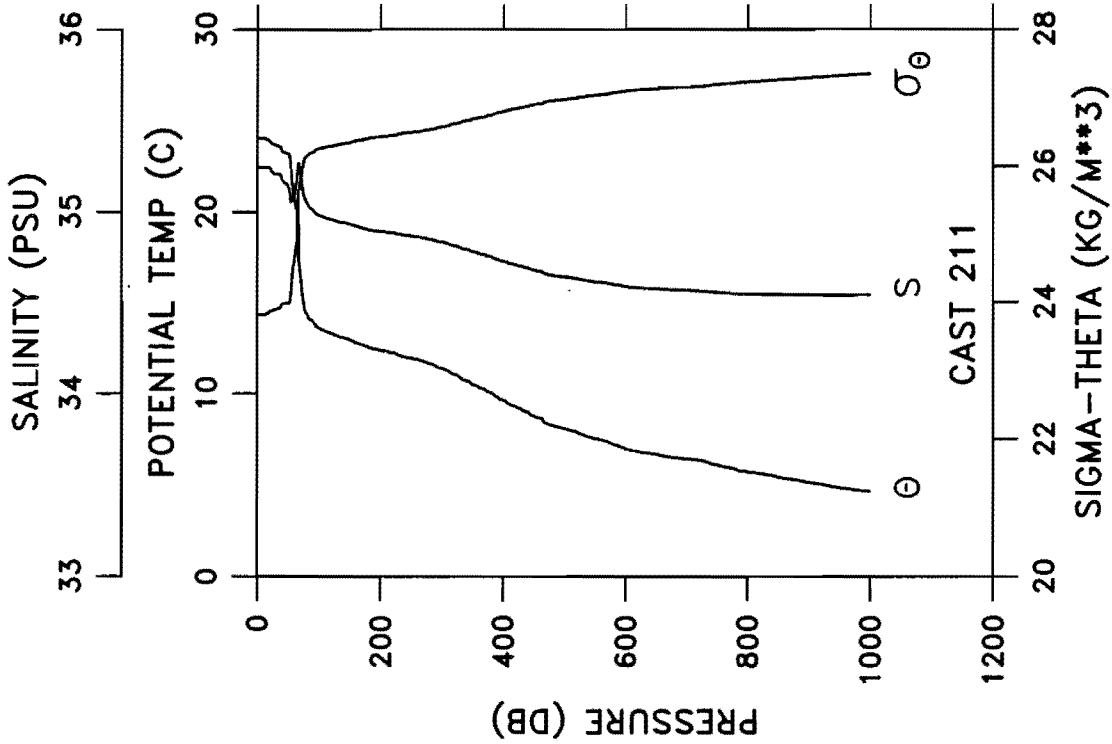


CAST GP5-99-KA-0201 DATE 29 SEP 99 TIME 0349 GMT
 LAT 05 02.3S LONG 124 57.0W WEATHER 0 SEA STATE 3
 BAROMETER 14 WIND DIR 090 T SPD 11 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 24.5 WET 21.5 DEPTH 4533 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.635	35.227	23.625	0.000
10	24.617	35.225	23.629	0.043
20	24.509	35.224	23.661	0.085
30	24.460	35.232	23.681	0.127
40	24.488	35.251	23.687	0.169
50	24.512	35.273	23.697	0.212
60	24.319	35.247	23.736	0.254
70	24.084	35.227	23.790	0.295
80	23.962	35.205	23.810	0.336
90	20.975	35.135	24.605	0.374
100	20.008	35.574	25.198	0.404
110	17.452	35.253	25.601	0.430
120	15.563	35.108	25.931	0.452
130	14.496	35.017	26.096	0.473
140	13.830	34.995	26.220	0.491
150	13.387	34.966	26.288	0.509
160	12.978	34.945	26.356	0.527
170	12.750	34.930	26.389	0.544
180	12.590	34.919	26.413	0.560
190	12.318	34.903	26.453	0.577
200	12.188	34.893	26.470	0.593
250	11.365	34.844	26.587	0.670
300	10.828	34.806	26.655	0.744
350	10.102	34.757	26.745	0.814
400	9.421	34.716	26.828	0.881
450	8.641	34.668	26.915	0.944
500	8.078	34.635	26.976	1.004
550	7.414	34.608	27.052	1.060
600	6.841	34.582	27.111	1.114
650	6.417	34.567	27.157	1.165
700	6.044	34.557	27.198	1.214
750	5.676	34.549	27.237	1.261
800	5.396	34.544	27.267	1.307
900	4.862	34.541	27.328	1.394
1000	4.388	34.549	27.386	1.476
1004	4.378	34.549	27.387	1.479



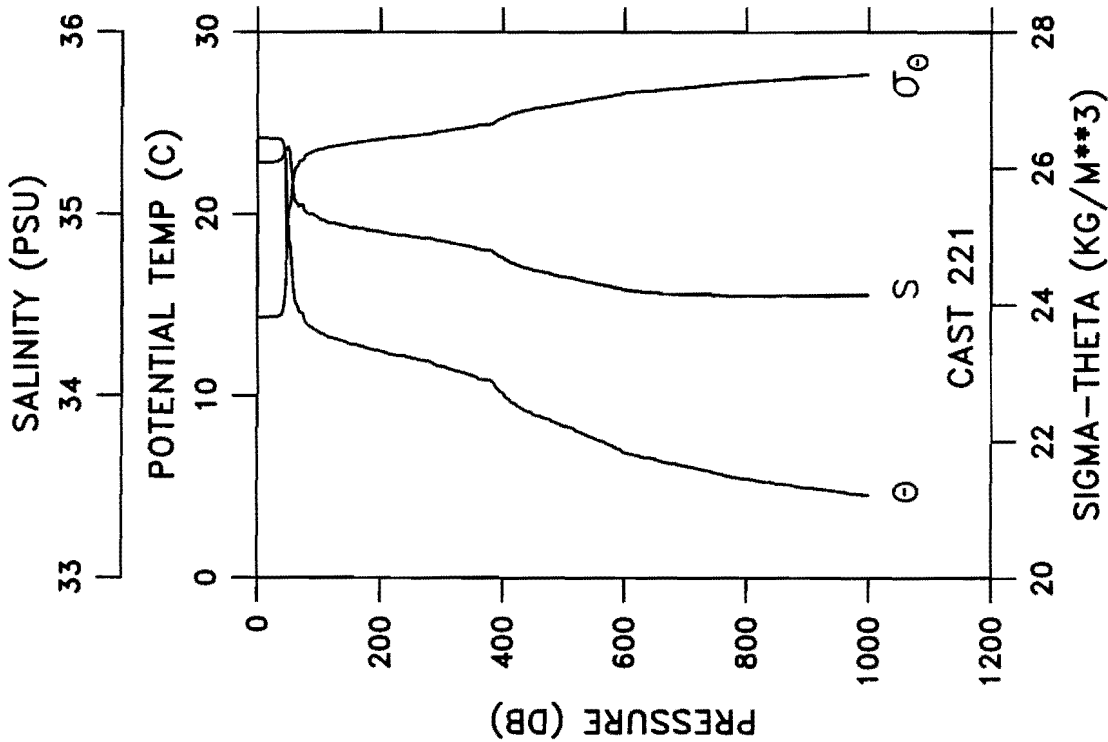
CAST GP5-99-KA-0211 DATE 29 SEP 99 TIME 1120 GMT
 LAT 04 00.3S LONG 124 55.8W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 070 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 24.2 WET 21.8 DEPTH 4529 M



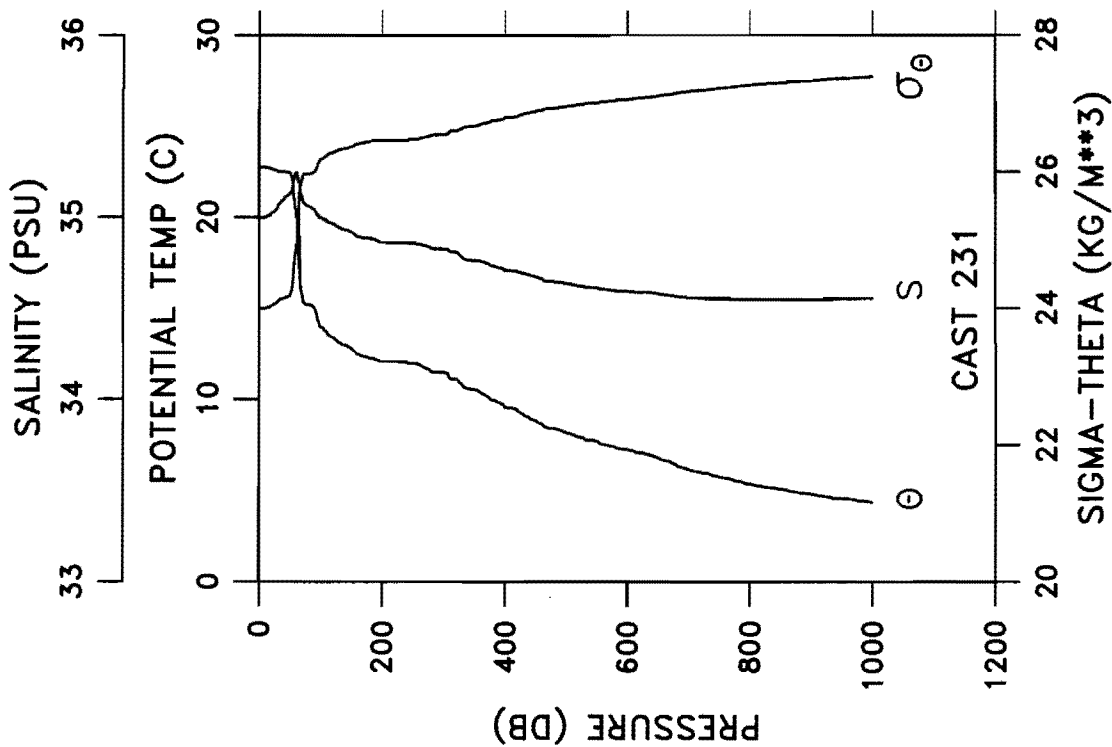
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.020	35.246	23.823	0.000
10	24.025	35.245	23.821	0.041
20	23.848	35.239	23.869	0.081
30	23.662	35.206	23.898	0.122
40	23.333	35.176	23.973	0.161
50	23.170	35.136	23.989	0.201
60	20.784	35.088	24.621	0.238
70	16.407	35.202	25.810	0.266
80	14.367	35.051	26.150	0.285
90	13.960	35.008	26.203	0.304
100	13.596	34.981	26.257	0.322
110	13.430	34.967	26.281	0.340
120	13.325	34.958	26.295	0.357
130	13.174	34.947	26.317	0.375
140	13.060	34.939	26.334	0.392
150	12.978	34.931	26.344	0.409
160	12.787	34.920	26.374	0.426
170	12.691	34.910	26.386	0.443
180	12.550	34.901	26.407	0.460
190	12.442	34.895	26.422	0.476
200	12.376	34.891	26.433	0.493
250	11.952	34.867	26.495	0.573
300	11.373	34.832	26.577	0.652
350	10.487	34.779	26.695	0.725
400	9.635	34.726	26.800	0.794
450	8.778	34.678	26.902	0.858
500	8.088	34.639	26.977	0.918
550	7.520	34.612	27.040	0.975
600	6.962	34.585	27.098	1.029
650	6.567	34.576	27.130	1.081
700	6.408	34.568	27.159	1.132
750	6.086	34.555	27.190	1.181
800	5.693	34.547	27.233	1.229
900	5.143	34.540	27.294	1.320
1000	4.648	34.542	27.352	1.405
1002	4.628	34.543	27.355	1.407

CAST GP5-99-KA-0221 DATE 29 SEP 99 TIME 1850 GMT
 LAT 03 00.4S LONG 124 54.8W WEATHER 1 SEA STATE 4
 BAROMETER 15 WIND DIR 084 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 24.2 WET 21.8 DEPTH 4637 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.165	35.283	23.808	0.000
10	24.165	35.282	23.808	0.041
20	24.119	35.283	23.822	0.082
30	24.116	35.286	23.825	0.123
40	24.039	35.305	23.862	0.163
50	18.916	35.366	25.324	0.199
60	15.418	35.080	25.942	0.223
70	14.546	35.049	26.109	0.242
80	13.963	35.005	26.199	0.261
90	13.720	34.999	26.246	0.279
100	13.488	34.976	26.276	0.297
110	13.317	34.959	26.298	0.315
120	13.189	34.950	26.317	0.332
130	13.102	34.945	26.331	0.349
140	13.005	34.937	26.344	0.366
150	12.852	34.926	26.366	0.383
160	12.834	34.925	26.369	0.400
170	12.720	34.920	26.387	0.417
180	12.605	34.911	26.403	0.434
190	12.530	34.906	26.414	0.451
200	12.455	34.902	26.425	0.467
250	12.087	34.875	26.476	0.548
300	11.629	34.851	26.544	0.628
350	11.130	34.817	26.610	0.705
400	10.176	34.760	26.734	0.778
450	9.002	34.692	26.877	0.843
500	8.364	34.654	26.947	0.905
550	7.694	34.620	27.021	0.963
600	6.866	34.584	27.110	1.018
650	6.520	34.568	27.144	1.069
700	6.145	34.559	27.186	1.119
750	5.754	34.554	27.231	1.167
800	5.432	34.552	27.269	1.212
900	4.958	34.552	27.325	1.300
1000	4.529	34.555	27.375	1.382
1003	4.512	34.555	27.378	1.385



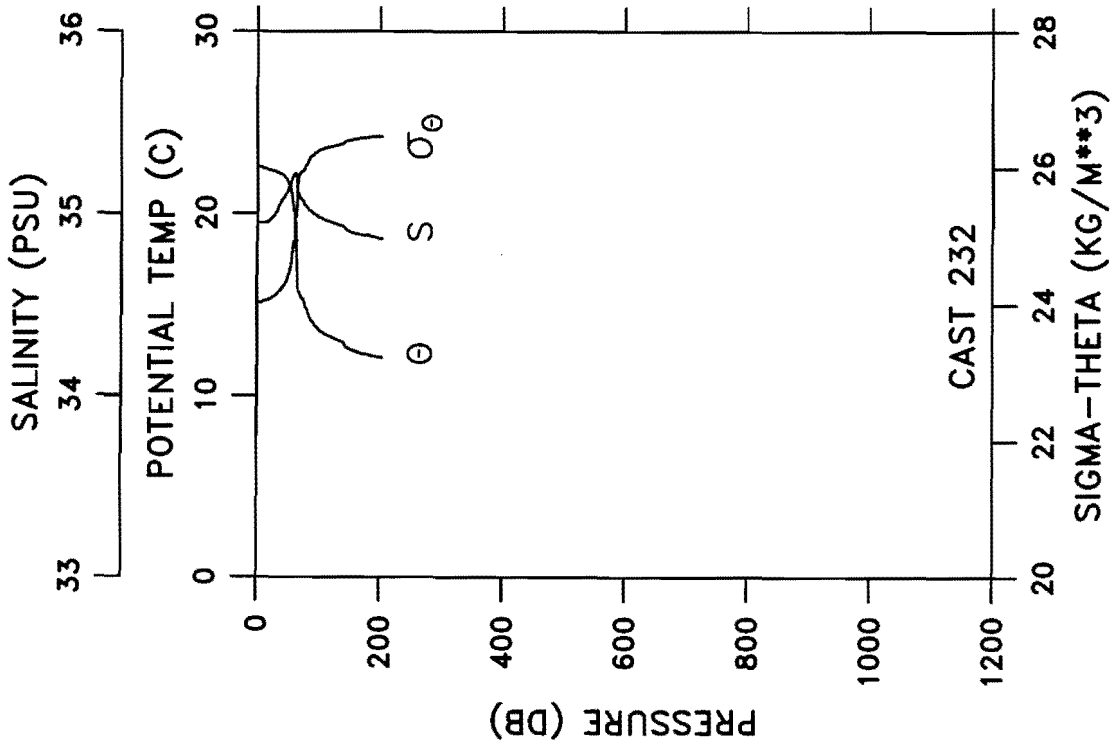
CAST GP5-99-KA-0231 DATE 30 SEP 99 TIME 0640 GMT
 LAT 02 06.5S LONG 124 55.3W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 092 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 22.0 WET 20.7 DEPTH 4631 M



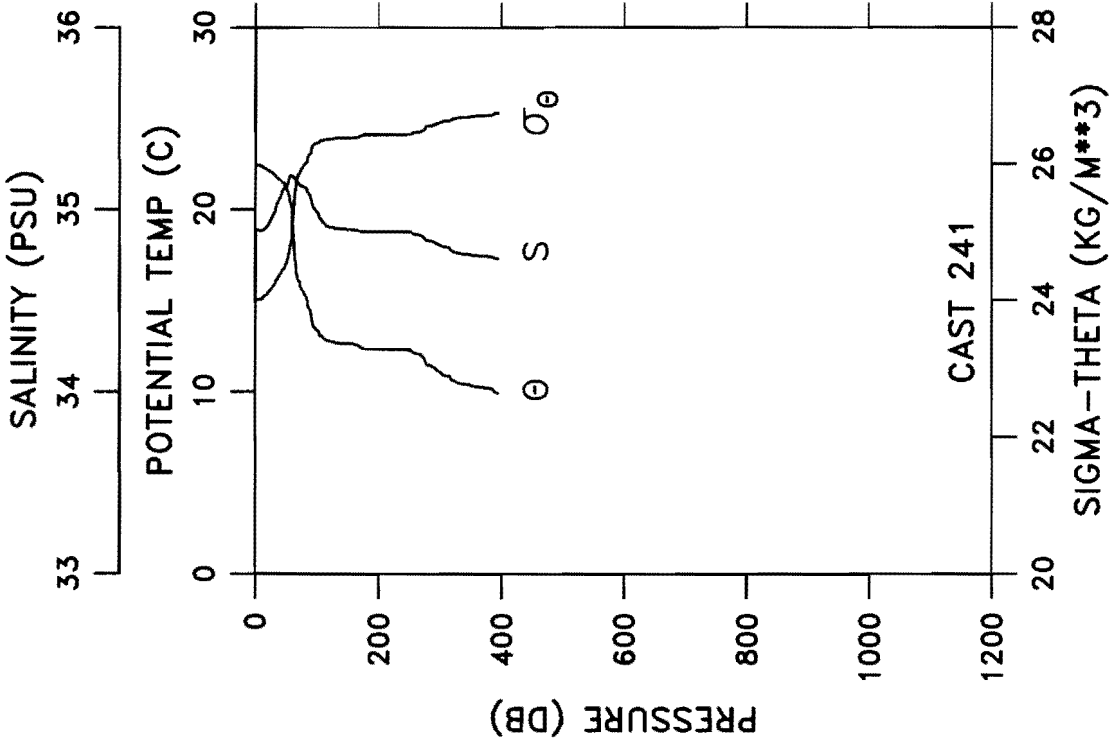
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.769	34.996	23.998	0.000
10	22.763	35.000	24.003	0.039
20	22.673	35.021	24.045	0.078
30	22.567	35.049	24.096	0.116
40	22.512	35.100	24.150	0.154
50	22.458	35.128	24.187	0.192
60	20.114	35.242	24.917	0.226
70	15.701	35.105	25.898	0.251
80	15.221	35.062	25.971	0.272
90	14.975	35.038	26.008	0.292
100	13.974	34.997	26.191	0.312
110	13.667	34.976	26.239	0.330
120	13.393	34.963	26.285	0.348
130	13.118	34.943	26.326	0.365
140	12.968	34.932	26.347	0.382
150	12.801	34.920	26.371	0.399
160	12.474	34.893	26.415	0.416
170	12.347	34.885	26.434	0.432
180	12.244	34.883	26.452	0.449
190	12.166	34.873	26.459	0.465
200	12.088	34.862	26.466	0.481
250	11.970	34.856	26.484	0.561
300	11.488	34.826	26.551	0.640
350	10.539	34.763	26.674	0.714
400	9.552	34.711	26.802	0.783
450	8.842	34.673	26.888	0.848
500	8.173	34.637	26.963	0.908
550	7.713	34.613	27.012	0.966
600	7.269	34.594	27.062	1.022
650	6.798	34.581	27.117	1.075
700	6.172	34.560	27.183	1.126
750	5.761	34.552	27.229	1.174
800	5.370	34.549	27.274	1.219
900	4.831	34.548	27.337	1.305
1000	4.357	34.558	27.396	1.386
1500	2.910	34.603	27.576	1.730
2000	2.122	34.646	27.678	2.008
2500	1.678	34.664	27.727	2.254
3000	1.416	34.676	27.756	2.484
3500	1.232	34.687	27.778	2.705
4000	1.115	34.693	27.791	2.922
4007	1.114	34.693	27.791	2.925

CAST GP5-99-KA-0232 DATE 30 SEP 99 TIME 1843 GMT
 LAT 02.8S LONG 124.535W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 083 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 23.2 WET 21.4 DEPTH 4727 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.553	34.949	24.024	0.000
10	22.469	34.947	24.047	0.039
20	22.399	34.961	24.077	0.077
30	22.298	35.004	24.138	0.115
40	22.144	35.073	24.235	0.153
50	21.678	35.133	24.410	0.189
60	19.803	35.211	24.976	0.222
70	15.493	35.080	25.925	0.247
80	14.786	35.036	26.048	0.267
90	14.052	35.006	26.181	0.286
100	13.610	34.979	26.253	0.305
110	13.368	34.963	26.290	0.322
120	13.223	34.951	26.310	0.340
130	13.073	34.939	26.331	0.357
140	12.906	34.927	26.356	0.374
150	12.558	34.899	26.403	0.391
160	12.433	34.888	26.419	0.407
170	12.315	34.881	26.436	0.424
180	12.261	34.880	26.446	0.440
190	12.180	34.871	26.455	0.456
200	12.101	34.861	26.462	0.472
203	12.099	34.860	26.462	0.477



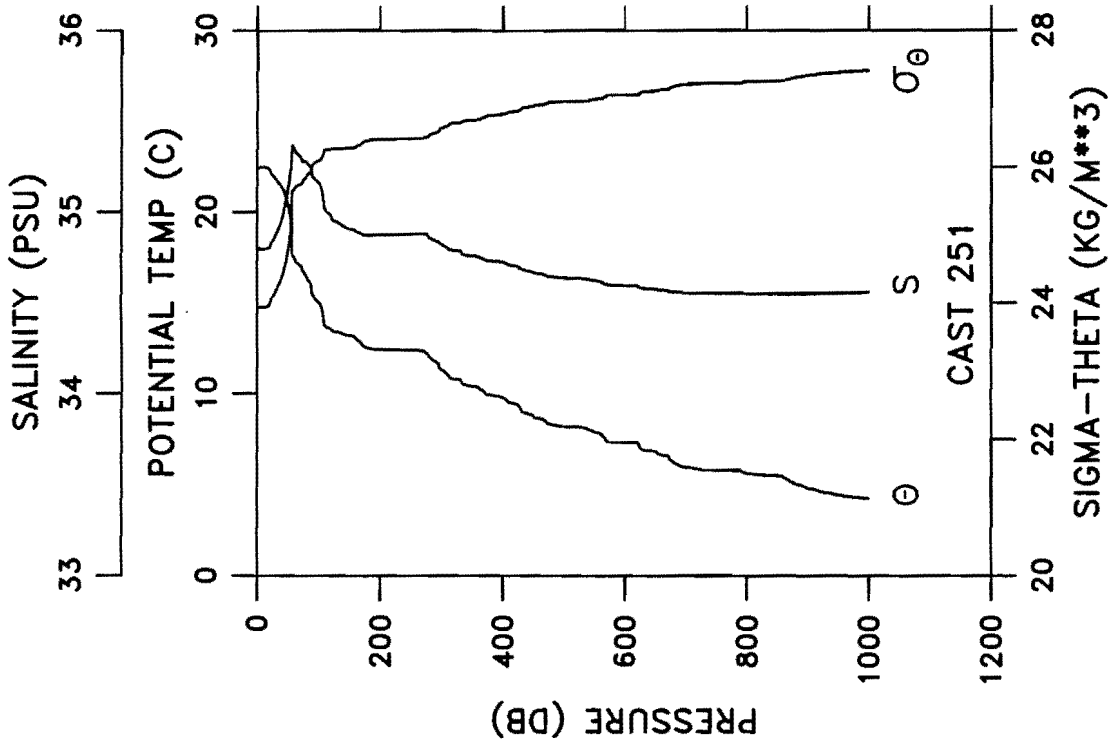
CAST GP5-99-KA-0241 DATE 30 SEP 99 TIME 2324 GMT
 LAT 01 30.2S LONG 124 44.2W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 100 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 22.7 WET 21.1 DEPTH 4570 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.431	34.887	24.012	0.000
10	22.381	34.882	24.023	0.039
20	22.163	34.910	24.105	0.077
30	21.919	34.975	24.223	0.115
40	21.595	35.063	24.380	0.151
50	21.184	35.125	24.540	0.186
60	19.228	35.181	25.102	0.218
70	16.070	35.139	25.840	0.242
80	15.275	35.119	26.004	0.263
90	14.286	35.054	26.169	0.282
100	13.340	34.984	26.313	0.300
110	12.908	34.925	26.354	0.317
120	12.743	34.901	26.368	0.334
130	12.658	34.896	26.381	0.351
140	12.621	34.891	26.385	0.367
150	12.611	34.890	26.385	0.384
160	12.582	34.886	26.388	0.401
170	12.441	34.882	26.413	0.418
180	12.340	34.879	26.430	0.434
190	12.323	34.877	26.432	0.450
200	12.321	34.877	26.432	0.467
250	12.259	34.873	26.441	0.549
300	11.039	34.801	26.614	0.628
350	10.328	34.750	26.700	0.700
394	9.913	34.729	26.755	0.762

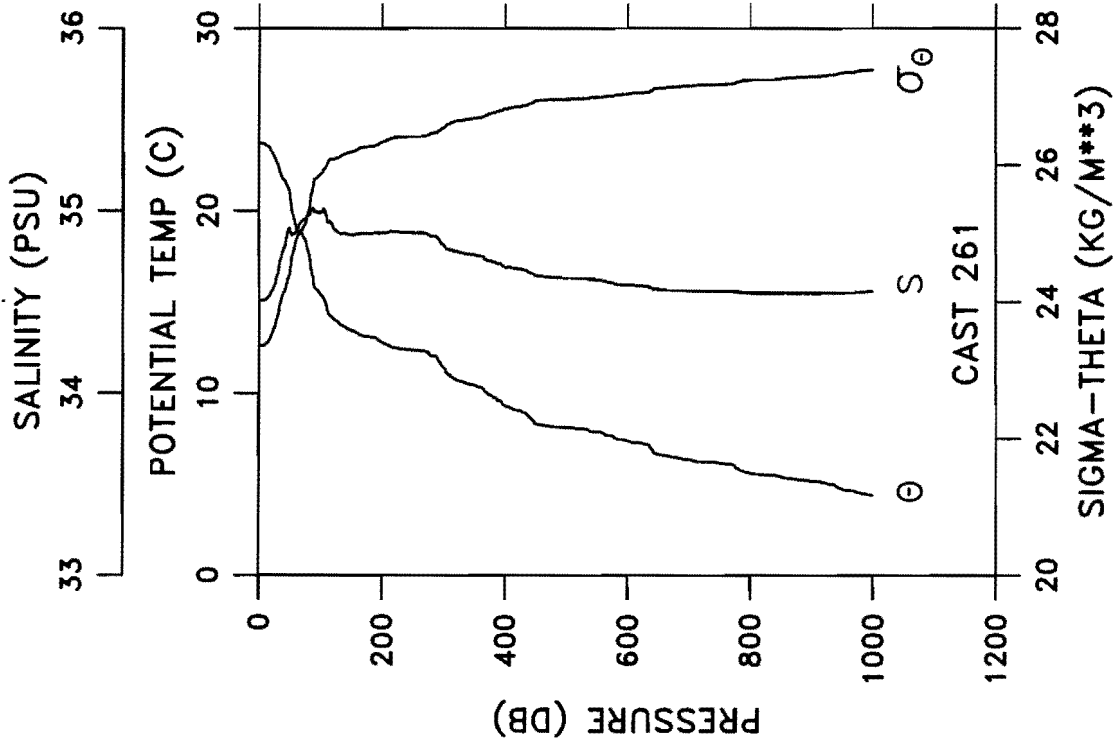
CAST GP5-99-KA-0251 DATE 01 OCT 99 TIME 0406 GMT
 LAT 00 59.7S LONG 124 35.9W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 100 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 22.5 WET 20.0 DEPTH 4660 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.467	34.798	23.935	0.000
10	22.471	34.797	23.932	0.040
20	22.313	34.809	23.986	0.079
30	21.815	34.875	24.176	0.118
40	21.328	34.965	24.379	0.154
50	20.359	35.129	24.766	0.188
60	17.452	35.350	25.675	0.215
70	17.044	35.304	25.738	0.238
80	16.415	35.275	25.864	0.260
90	15.438	35.196	26.027	0.281
100	15.019	35.160	26.092	0.301
110	13.722	35.015	26.258	0.320
120	13.555	34.976	26.262	0.338
130	13.417	34.946	26.267	0.355
140	13.289	34.921	26.274	0.373
150	13.215	34.906	26.277	0.391
160	13.064	34.894	26.299	0.409
170	12.748	34.877	26.349	0.426
180	12.530	34.871	26.387	0.443
190	12.467	34.874	26.402	0.460
200	12.455	34.873	26.403	0.476
250	12.413	34.878	26.415	0.560
300	11.354	34.821	26.572	0.642
350	10.444	34.759	26.687	0.715
400	9.787	34.724	26.773	0.784
450	8.772	34.666	26.893	0.849
500	8.193	34.637	26.960	0.909
550	7.905	34.623	26.992	0.968
600	7.331	34.594	27.053	1.024
650	6.822	34.575	27.109	1.078
700	5.956	34.556	27.208	1.128
750	5.796	34.553	27.226	1.175
800	5.610	34.552	27.247	1.222
900	4.807	34.550	27.340	1.311
1000	4.254	34.558	27.408	1.391
1003	4.250	34.558	27.408	1.393

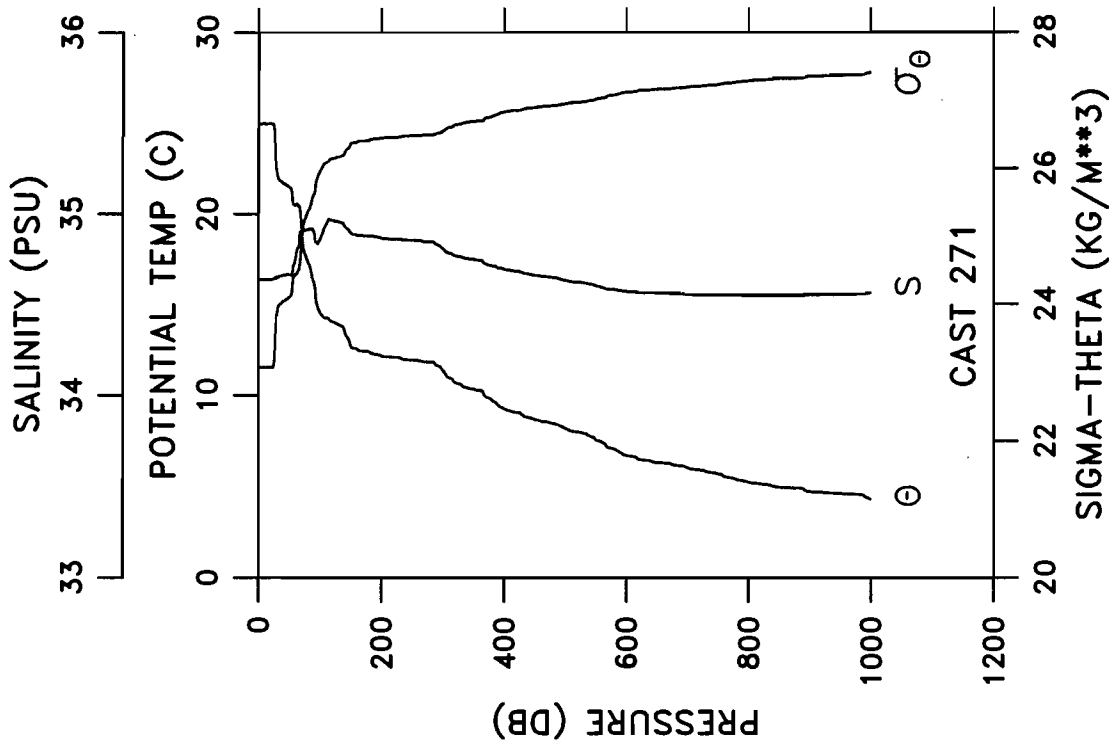


CAST GP5-99-KA-0261 DATE 01 OCT 99 TIME 2156 GMT
 LAT 00 10.55 LONG 124 22.3W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 105 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 23.3 WET 19.8 DEPTH 4723 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.692	34.514	23.366	0.000
10	23.646	34.514	23.379	0.045
20	23.255	34.557	23.526	0.090
30	22.616	34.647	23.778	0.132
40	21.726	34.791	24.137	0.171
50	21.044	34.900	24.407	0.208
60	19.142	34.882	24.896	0.241
70	18.725	34.945	25.050	0.270
80	17.719	34.975	25.323	0.299
90	15.774	34.996	25.797	0.323
100	15.431	34.990	25.869	0.345
110	14.753	34.964	25.999	0.366
120	14.144	34.915	26.092	0.386
130	13.880	34.878	26.118	0.405
140	13.648	34.877	26.166	0.424
150	13.468	34.867	26.195	0.443
160	13.306	34.872	26.233	0.461
170	13.159	34.875	26.264	0.479
180	13.114	34.875	26.274	0.497
190	13.061	34.879	26.287	0.515
200	12.823	34.878	26.334	0.533
250	12.396	34.879	26.420	0.617
300	11.460	34.815	26.548	0.699
350	10.471	34.760	26.683	0.772
400	9.321	34.692	26.825	0.840
450	8.317	34.647	26.949	0.903
500	8.129	34.634	26.967	0.962
550	7.889	34.622	26.993	1.021
600	7.382	34.596	27.047	1.077
650	6.644	34.571	27.130	1.132
700	6.348	34.563	27.162	1.182
750	6.151	34.561	27.186	1.232
800	5.606	34.551	27.247	1.279
900	5.186	34.549	27.296	1.370
1000	4.396	34.558	27.393	1.453
1005	4.382	34.559	27.395	1.457

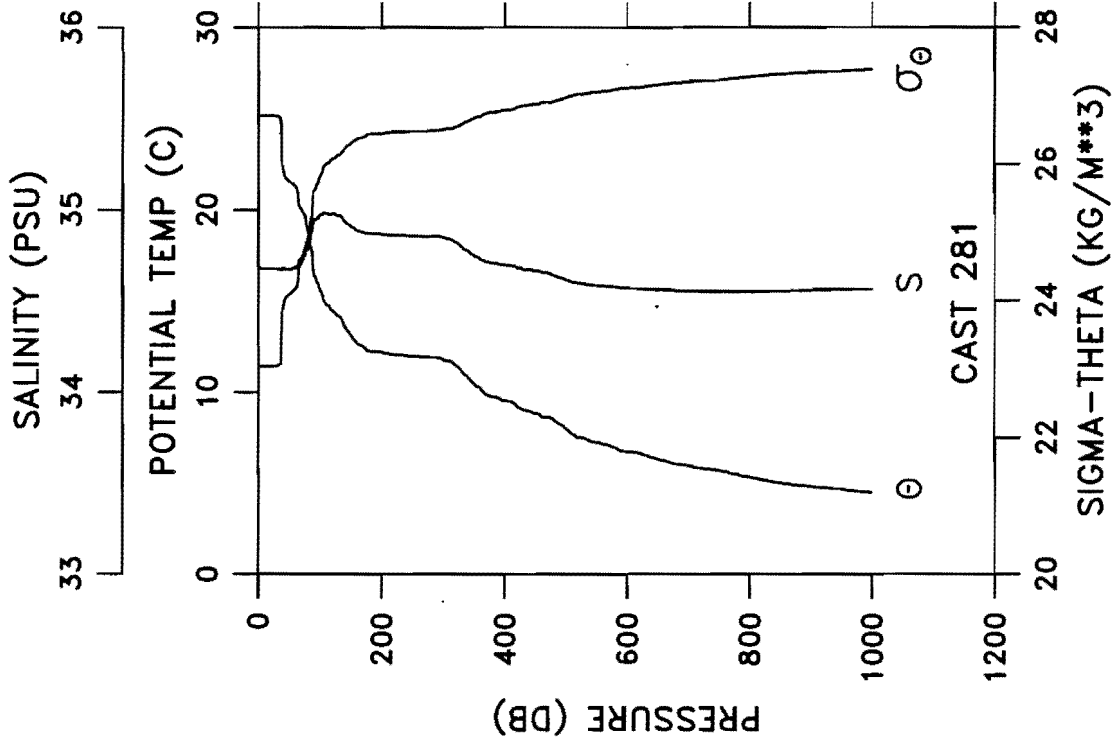


CAST GP5-99-KA-0271 DATE 02 OCT 99 TIME 0310 GMT
 LAT 00 30.0N LONG 124 35.8W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 107 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 23.3 WET 20.3 DEPTH 4530 M



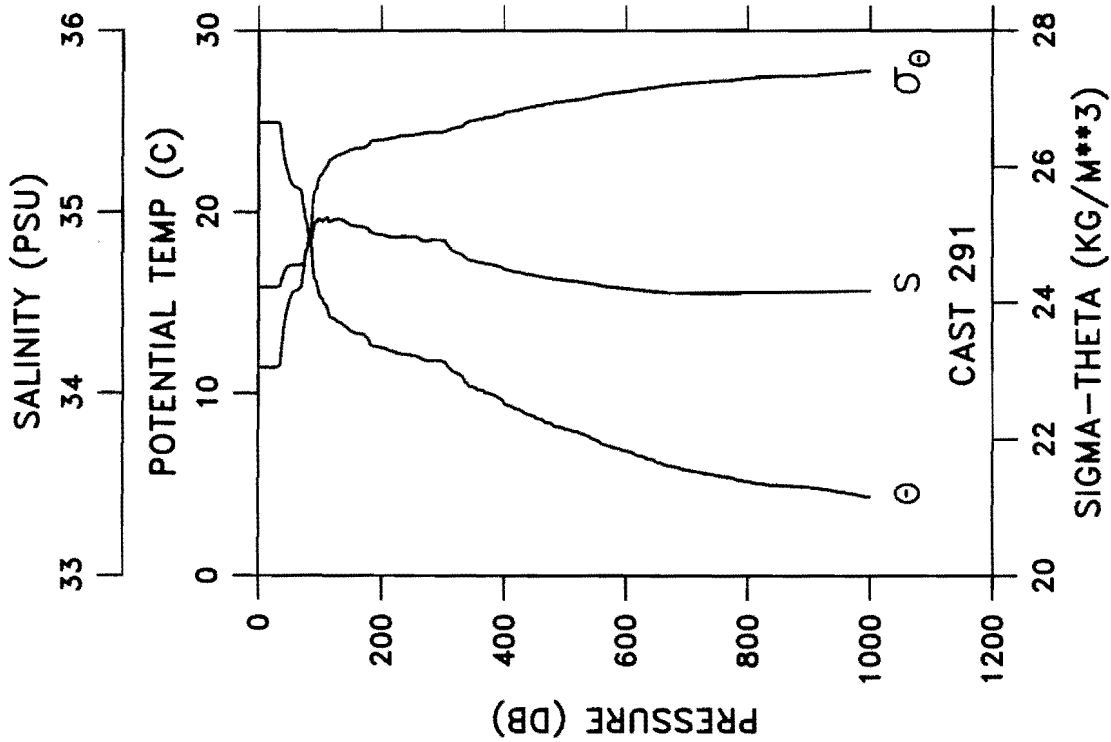
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.978	34.640	23.078	0.000
10	24.979	34.638	23.076	0.048
20	24.976	34.638	23.077	0.096
30	22.351	34.646	23.852	0.142
40	21.688	34.662	24.050	0.181
50	21.483	34.666	24.109	0.219
60	20.485	34.751	24.444	0.256
70	19.108	34.892	24.912	0.290
80	17.379	34.916	25.360	0.318
90	16.240	34.905	25.620	0.343
100	14.555	34.858	25.960	0.365
110	14.265	34.942	26.087	0.385
120	14.063	34.965	26.148	0.404
130	13.909	34.958	26.174	0.423
140	13.512	34.933	26.238	0.441
150	12.722	34.894	26.367	0.459
160	12.570	34.883	26.388	0.476
170	12.449	34.880	26.409	0.492
180	12.403	34.877	26.416	0.509
190	12.268	34.874	26.440	0.525
200	12.172	34.865	26.452	0.541
250	11.954	34.855	26.486	0.622
300	11.381	34.810	26.558	0.702
350	10.374	34.749	26.692	0.775
400	9.297	34.696	26.833	0.843
450	8.700	34.663	26.902	0.906
500	8.199	34.633	26.956	0.967
550	7.595	34.604	27.022	1.025
600	6.727	34.572	27.119	1.079
650	6.324	34.564	27.166	1.129
700	6.040	34.556	27.197	1.178
750	5.712	34.552	27.235	1.226
800	5.256	34.551	27.289	1.271
900	4.742	34.553	27.351	1.356
1000	4.269	34.563	27.411	1.437
1004	4.216	34.565	27.417	1.440

CAST GP5-99-KA-0281 DATE 02 OCT 99 TIME 0658 GMT
 LAT 01 00.0N LONG 124 45.4W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 107 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 23.5 WET 21.0 DEPTH 4610 M



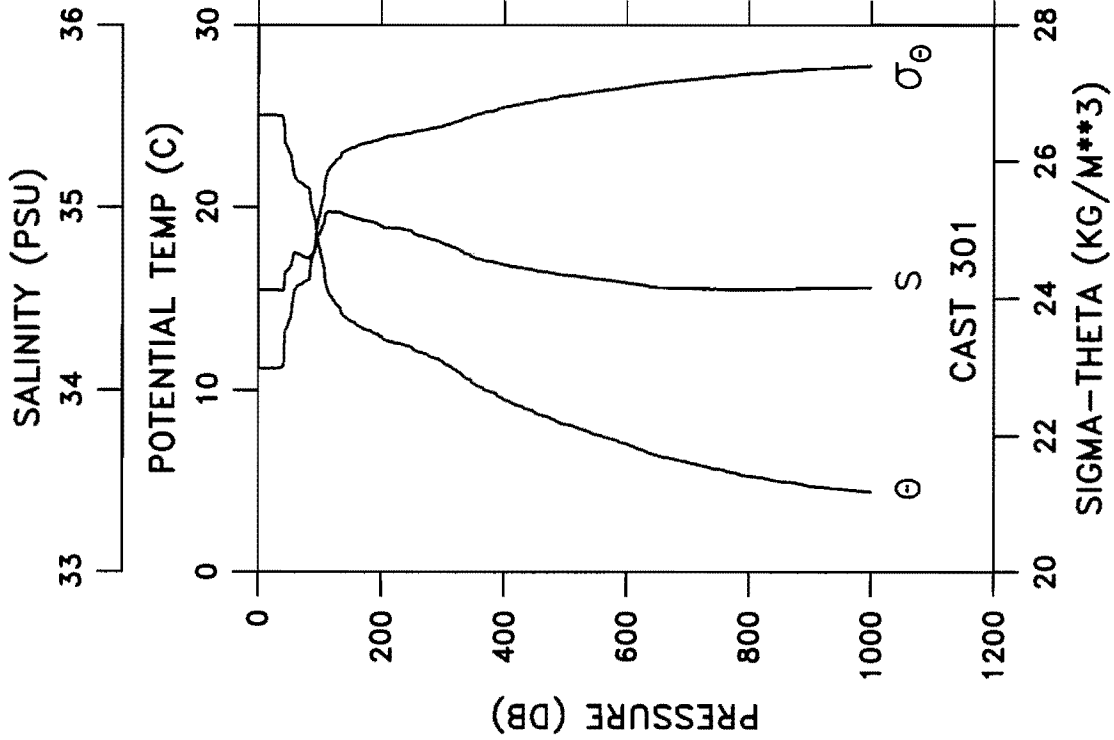
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.167	34.682	23.052	0.000
10	25.164	34.676	23.049	0.048
20	25.161	34.676	23.050	0.096
30	25.146	34.676	23.053	0.144
40	22.218	34.670	23.908	0.190
50	21.555	34.673	24.094	0.229
60	21.304	34.685	24.172	0.267
70	19.990	34.737	24.565	0.303
80	18.844	34.779	24.893	0.335
90	16.400	34.947	25.615	0.363
100	15.587	34.969	25.819	0.366
110	14.807	34.981	26.000	0.407
120	14.443	34.979	26.077	0.427
130	14.154	34.968	26.131	0.447
140	13.576	34.936	26.227	0.465
150	13.115	34.913	26.303	0.483
160	12.663	34.886	26.372	0.500
170	12.498	34.877	26.398	0.517
180	12.243	34.871	26.443	0.534
190	12.226	34.869	26.444	0.550
200	12.204	34.867	26.447	0.566
250	11.971	34.856	26.483	0.647
300	11.778	34.847	26.513	0.727
350	10.478	34.750	26.674	0.804
400	9.545	34.697	26.792	0.872
450	8.863	34.666	26.879	0.937
500	7.988	34.616	26.974	0.998
550	7.252	34.583	27.056	1.054
600	6.728	34.569	27.117	1.107
650	6.328	34.561	27.163	1.158
700	5.974	34.553	27.203	1.206
750	5.705	34.550	27.234	1.253
800	5.326	34.550	27.281	1.299
900	4.826	34.557	27.344	1.384
1000	4.494	34.564	27.387	1.465
1003	4.486	34.563	27.387	1.467

CAST GP5-99-KA-0291 DATE 02 OCT 99 TIME 1053 GMT
 LAT 01 30.0N LONG 124 55.5W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 120 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DIR 23.6 WET 20.4 DEPTH 4645 M



PRES (DB)	POT TEMP (C)	SAL (FSU)	SIG-TH	DELTA-D (DYN-M)
0	24.933	34.584	23.049	0.000
10	24.944	34.585	23.046	0.048
20	24.944	34.585	23.046	0.096
30	24.930	34.585	23.051	0.144
40	23.520	34.640	23.512	0.191
50	21.899	34.703	24.021	0.233
60	21.381	34.706	24.167	0.271
70	21.095	34.712	24.250	0.308
80	19.129	34.805	24.840	0.342
90	16.490	34.913	25.568	0.370
100	15.365	34.959	25.860	0.393
110	14.830	34.963	25.981	0.414
120	14.139	34.952	26.121	0.434
130	13.924	34.960	26.173	0.453
140	13.733	34.948	26.204	0.472
150	13.425	34.928	26.252	0.490
160	13.294	34.920	26.272	0.508
170	13.245	34.917	26.278	0.526
180	12.927	34.904	26.334	0.543
190	12.579	34.880	26.384	0.560
200	12.507	34.873	26.383	0.577
250	12.066	34.862	26.470	0.659
300	11.755	34.841	26.513	0.739
350	10.366	34.730	26.678	0.815
400	9.487	34.684	26.792	0.885
450	8.755	34.649	26.862	0.949
500	8.053	34.621	26.969	1.010
550	7.462	34.599	27.038	1.067
600	6.850	34.577	27.106	1.121
650	6.230	34.560	27.176	1.171
700	5.787	34.553	27.226	1.219
750	5.494	34.549	27.260	1.265
800	5.174	34.553	27.300	1.309
800	4.862	34.559	27.342	1.393
1000	4.331	34.565	27.405	1.473
1001	4.328	34.565	27.405	1.474

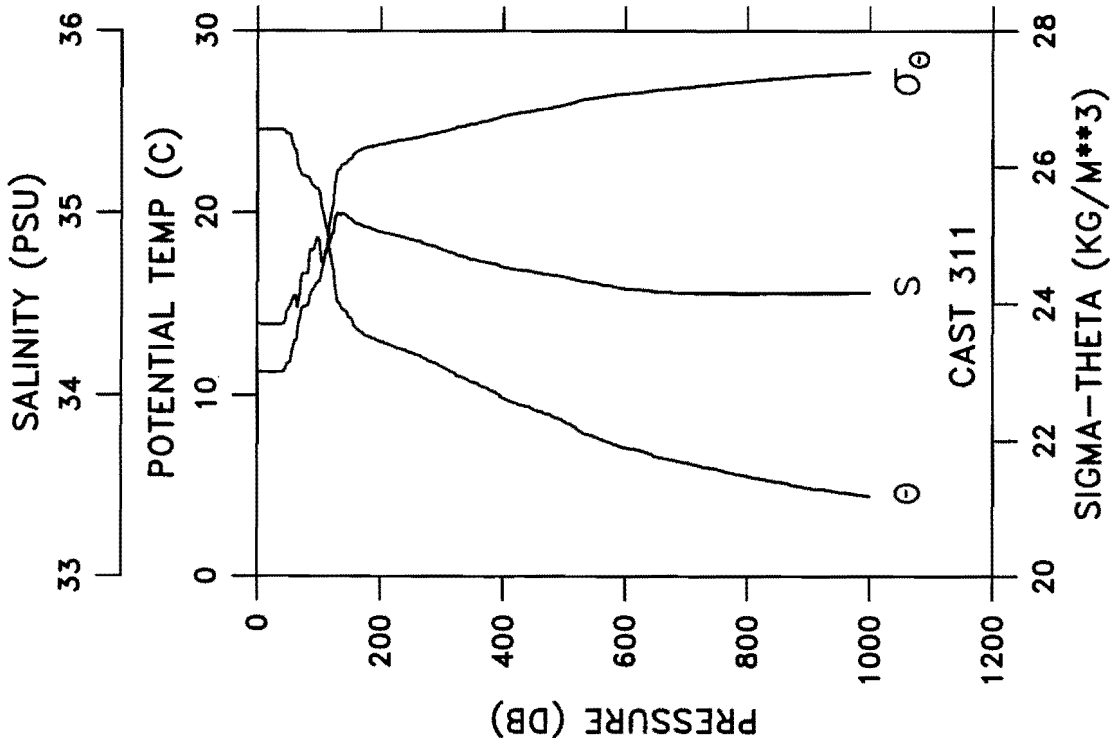
CAST GP5-99-KA-0301 DATE 02 OCT 99 TIME 1437 GMT
 LAT 01 57.6N LONG 125 06.6W WEATHER 1 SEA STATE 3
 BAROMETER 11 WIND DIR 135 T SPD 17 KT VISIBILITY 7
 CLOUD 7 AMOUNT 2 DRY 24.0 WET 21.0 DEPTH 4731 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.038	34.547	22.989	0.000
10	25.040	34.548	22.989	0.049
20	25.041	34.548	22.989	0.097
30	25.040	34.548	22.990	0.146
40	24.917	34.543	23.023	0.195
50	23.040	34.661	23.667	0.239
60	21.608	34.751	24.140	0.279
70	21.312	34.736	24.209	0.317
80	21.079	34.721	24.262	0.354
90	19.597	34.750	24.678	0.389
100	17.684	34.854	25.237	0.419
110	15.782	34.963	25.770	0.445
120	15.055	34.971	25.938	0.466
130	14.597	34.973	26.040	0.486
140	14.035	34.959	26.148	0.506
150	13.786	34.948	26.192	0.525
160	13.582	34.937	26.226	0.543
170	13.375	34.928	26.261	0.561
180	13.292	34.924	26.276	0.579
190	13.113	34.915	26.305	0.597
200	12.932	34.896	26.326	0.614
250	12.325	34.864	26.422	0.699
300	11.569	34.803	26.518	0.780
350	10.359	34.725	26.676	0.856
400	9.458	34.686	26.798	0.925
450	8.779	34.654	26.883	0.990
500	8.131	34.627	26.962	1.051
550	7.583	34.606	27.026	1.109
600	7.067	34.586	27.084	1.163
650	6.430	34.562	27.151	1.215
700	6.052	34.558	27.197	1.264
750	5.659	34.552	27.242	1.311
800	5.299	34.550	27.283	1.356
900	4.739	34.557	27.354	1.442
1000	4.418	34.561	27.393	1.522
1003	4.413	34.561	27.393	1.524

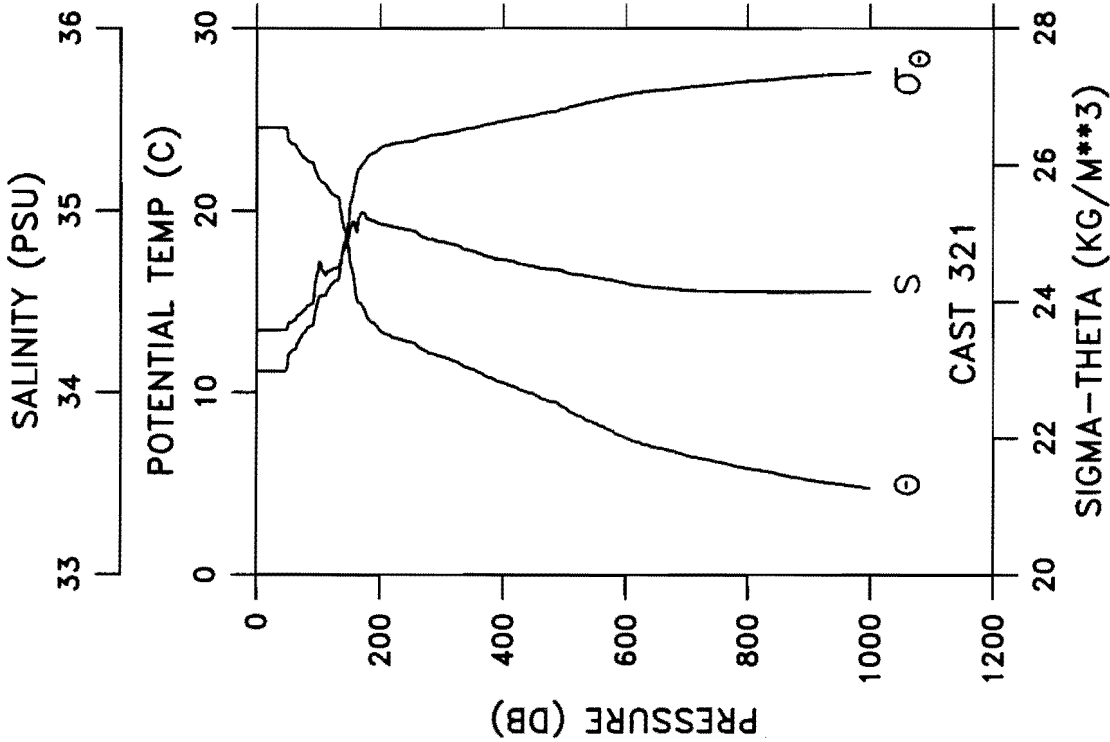
CAST GP5-99-KA-0311 DATE 03 OCT 99 TIME 0821 GMT
 LAT 03 00.1N LONG 125 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 124 T SPD 20 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 24.0 WET 20.7 DEPTH 4450 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.568	34.392	23.014	0.000
10	24.575	34.388	23.009	0.048
20	24.577	34.389	23.009	0.097
30	24.577	34.389	23.009	0.146
40	24.572	34.390	23.011	0.194
50	24.339	34.468	23.140	0.242
60	23.486	34.546	23.450	0.289
70	22.225	34.604	23.855	0.332
80	21.974	34.666	23.973	0.371
90	21.487	34.794	24.205	0.410
100	21.201	34.851	24.327	0.447
110	19.455	34.765	24.726	0.481
120	17.413	34.861	25.310	0.511
130	15.105	34.996	25.947	0.535
140	14.660	34.990	26.040	0.556
150	14.243	34.966	26.110	0.575
160	13.664	34.938	26.210	0.594
170	13.398	34.927	26.257	0.613
180	13.209	34.918	26.288	0.630
190	13.087	34.906	26.303	0.648
200	12.922	34.894	26.327	0.666
250	12.310	34.852	26.415	0.751
300	11.551	34.797	26.516	0.832
350	10.704	34.743	26.629	0.909
400	9.828	34.700	26.748	0.981
450	9.219	34.674	26.828	1.048
500	8.554	34.646	26.912	1.112
550	7.715	34.614	27.013	1.171
600	7.097	34.582	27.076	1.226
650	6.608	34.566	27.130	1.279
700	6.286	34.559	27.167	1.329
750	5.931	34.559	27.213	1.378
800	5.524	34.554	27.259	1.424
900	4.871	34.556	27.338	1.511
1000	4.407	34.561	27.394	1.593
1002	4.399	34.562	27.396	1.594

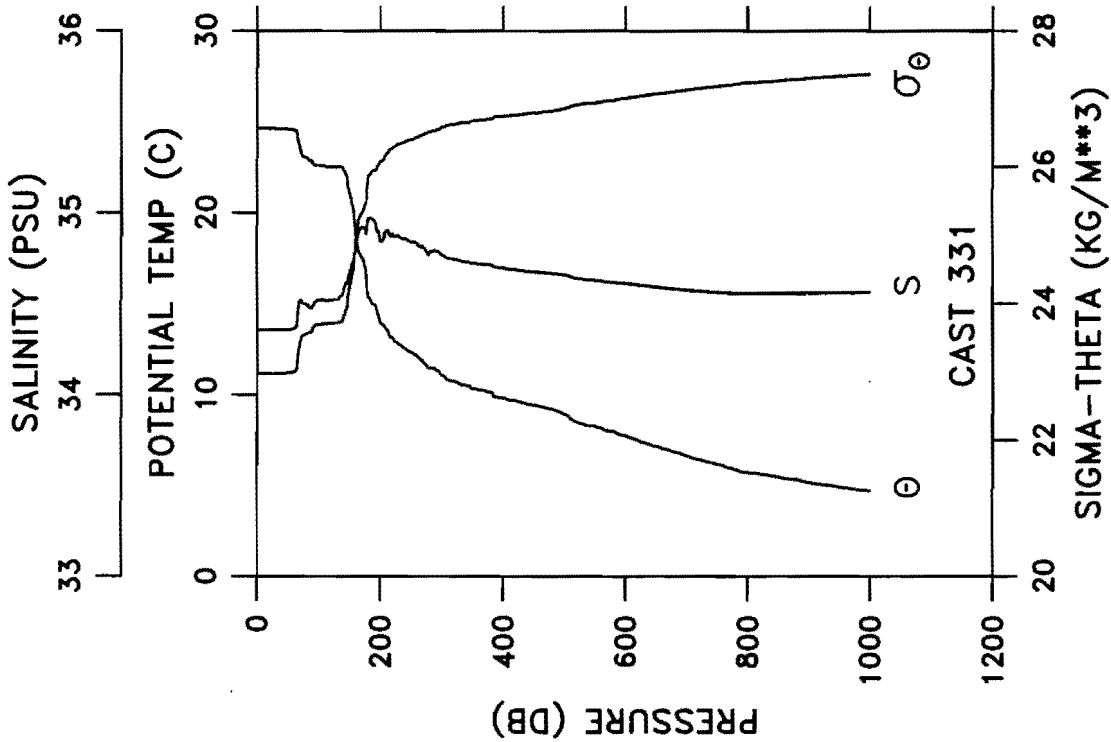


CAST GP5-99-KA-0321 DATE 03 OCT 99 TIME 1500 GMT
 LAT 03 59.9N LONG 124 57.1W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 135 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 23.8 WET 20.8 DEPTH 4434 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.558	34.343	22.980	0.000
10	24.560	34.344	22.980	0.049
20	24.565	34.344	22.979	0.098
30	24.563	34.345	22.979	0.146
40	24.563	34.345	22.980	0.195
50	24.210	34.361	23.097	0.244
60	23.647	34.400	23.292	0.291
70	23.154	34.434	23.462	0.336
80	22.824	34.467	23.582	0.380
90	22.640	34.491	23.652	0.423
100	21.765	34.690	24.049	0.463
110	21.489	34.653	24.098	0.502
120	21.004	34.674	24.246	0.540
130	20.783	34.686	24.315	0.577
140	19.253	34.778	24.788	0.611
150	17.662	34.874	25.260	0.641
160	15.515	34.905	25.785	0.666
170	14.817	34.991	26.006	0.687
180	14.096	34.959	26.136	0.707
190	13.835	34.946	26.181	0.726
200	13.426	34.929	26.252	0.745
250	12.776	34.892	26.355	0.833
300	11.994	34.830	26.459	0.917
350	11.314	34.781	26.548	0.997
400	10.570	34.733	26.645	1.073
450	9.957	34.697	26.723	1.145
500	9.182	34.667	26.828	1.213
550	8.325	34.636	26.939	1.276
600	7.531	34.603	27.031	1.335
650	6.974	34.581	27.092	1.390
700	6.548	34.568	27.140	1.442
750	6.192	34.562	27.182	1.492
800	5.832	34.560	27.226	1.541
900	5.206	34.556	27.300	1.632
1000	4.753	34.561	27.355	1.717
1003	4.736	34.561	27.357	1.720



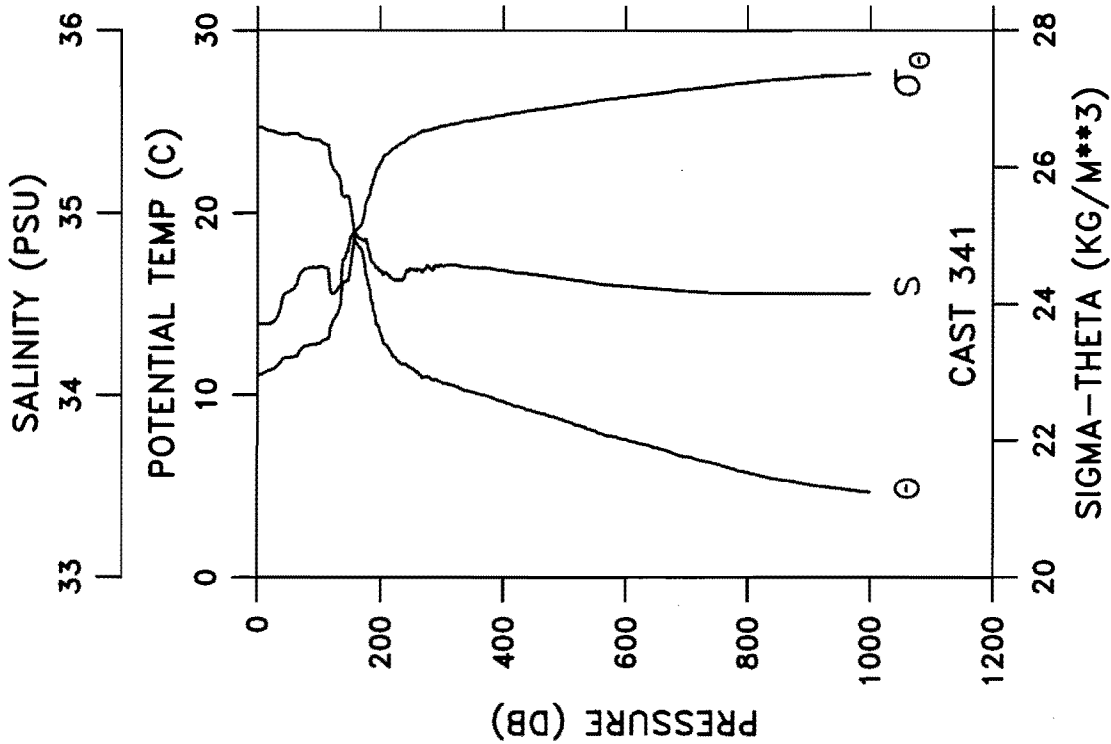
CAST GP5-99-KA-0331 DATE 04 OCT 99 TIME 0600 GMT
 LAT 05 21.9N LONG 124 57.6W WEATHER 0 SEA STATE 4
 BAROMETER 15 WIND DIR 125 T SPD 14 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 23.9 WET 20.9 DEPTH 4084 M



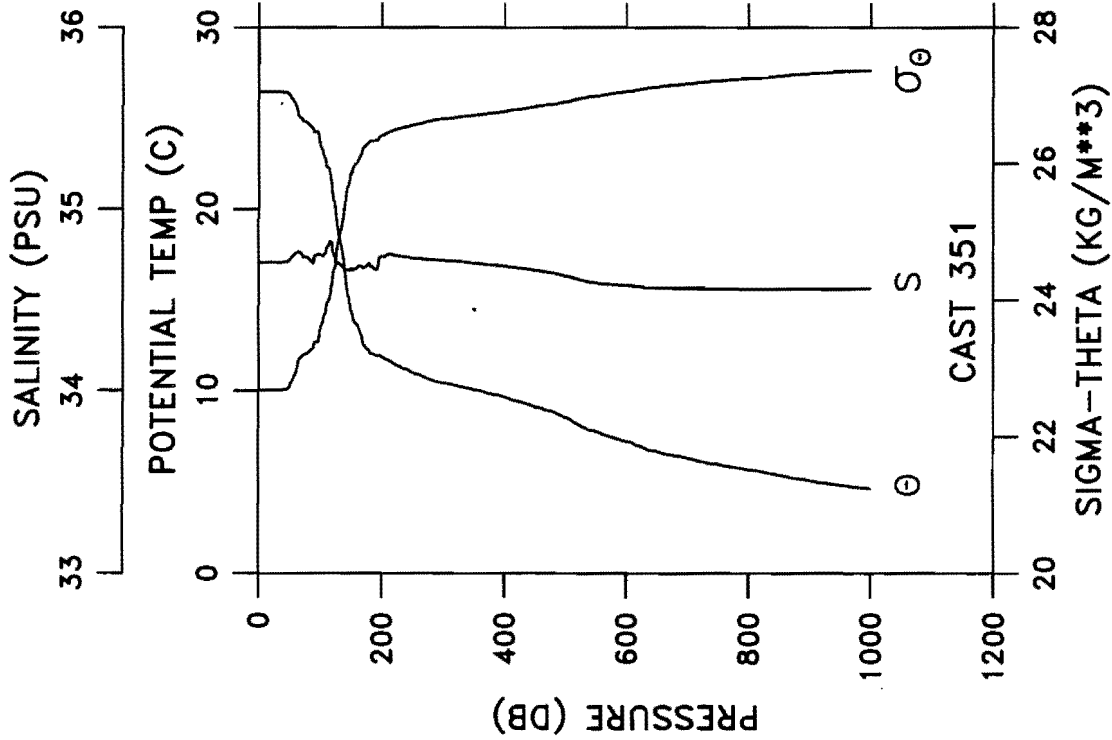
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.610	34.357	22.975	0.000
10	24.618	34.355	22.970	0.049
20	24.609	34.355	22.973	0.098
30	24.594	34.355	22.978	0.147
40	24.590	34.355	22.979	0.196
50	24.559	34.356	22.989	0.244
60	24.530	34.362	23.002	0.293
70	23.451	34.520	23.441	0.341
80	22.996	34.494	23.553	0.384
90	22.698	34.486	23.632	0.428
100	22.564	34.519	23.695	0.470
110	22.525	34.516	23.704	0.513
120	22.496	34.518	23.714	0.555
130	22.481	34.521	23.720	0.597
140	22.325	34.572	23.803	0.639
150	21.072	34.662	24.219	0.679
160	18.720	34.801	24.941	0.714
170	17.504	34.920	25.333	0.742
180	15.388	34.965	25.860	0.768
190	14.947	34.954	25.949	0.789
200	13.927	34.841	26.081	0.809
250	12.333	34.837	26.399	0.899
300	11.075	34.767	26.581	0.979
350	10.341	34.721	26.676	1.053
400	9.843	34.694	26.740	1.124
450	9.431	34.673	26.793	1.192
500	8.933	34.657	26.860	1.258
550	8.305	34.628	26.936	1.320
600	7.771	34.611	27.002	1.379
650	7.180	34.591	27.072	1.435
700	6.643	34.573	27.131	1.488
750	6.187	34.562	27.183	1.539
800	5.713	34.556	27.238	1.587
900	5.182	34.558	27.304	1.677
1000	4.706	34.562	27.362	1.762
1500	3.087	34.605	27.562	2.123
2000	2.239	34.637	27.662	2.412
2500	1.727	34.665	27.725	2.662
3000	1.540	34.674	27.746	2.898
3500	1.272	34.686	27.774	3.125
4000	1.147	34.691	27.787	3.346
4007	1.147	34.691	27.787	3.349

CAST 05-99-KA-0341 DATE 04 OCT 99 TIME 2242 GMT
 LAT 05 59.9N LONG 124 57.1W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 140 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 26.4 WET 23.4 DEPTH 4418 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.726	34.394	22.968	0.000
10	24.655	34.392	22.988	0.049
20	24.526	34.394	23.028	0.097
30	24.433	34.418	23.074	0.146
40	24.327	34.520	23.183	0.193
50	24.339	34.569	23.216	0.240
60	24.351	34.593	23.231	0.287
70	24.231	34.670	23.325	0.333
80	24.104	34.698	23.384	0.378
90	24.045	34.706	23.407	0.423
100	24.011	34.706	23.417	0.468
110	23.806	34.704	23.476	0.513
120	22.690	34.564	23.693	0.557
130	22.132	34.584	23.866	0.598
140	20.921	34.752	24.328	0.637
150	20.667	34.850	24.472	0.673
160	18.394	34.884	25.087	0.705
170	17.914	34.856	25.184	0.734
180	16.112	34.799	25.568	0.760
190	14.549	34.722	25.856	0.784
200	13.394	34.689	26.073	0.804
250	11.468	34.695	26.453	0.893
300	10.703	34.715	26.607	0.971
350	10.179	34.704	26.690	1.044
400	9.667	34.688	26.765	1.113
450	9.106	34.665	26.838	1.180
500	8.606	34.642	26.900	1.243
550	8.048	34.618	26.967	1.304
600	7.564	34.602	27.026	1.361
650	7.116	34.587	27.078	1.417
700	6.615	34.573	27.135	1.469
750	6.198	34.563	27.182	1.520
800	5.739	34.557	27.236	1.567
900	5.059	34.557	27.318	1.657
1000	4.650	34.561	27.367	1.740
1008	4.624	34.561	27.370	1.747

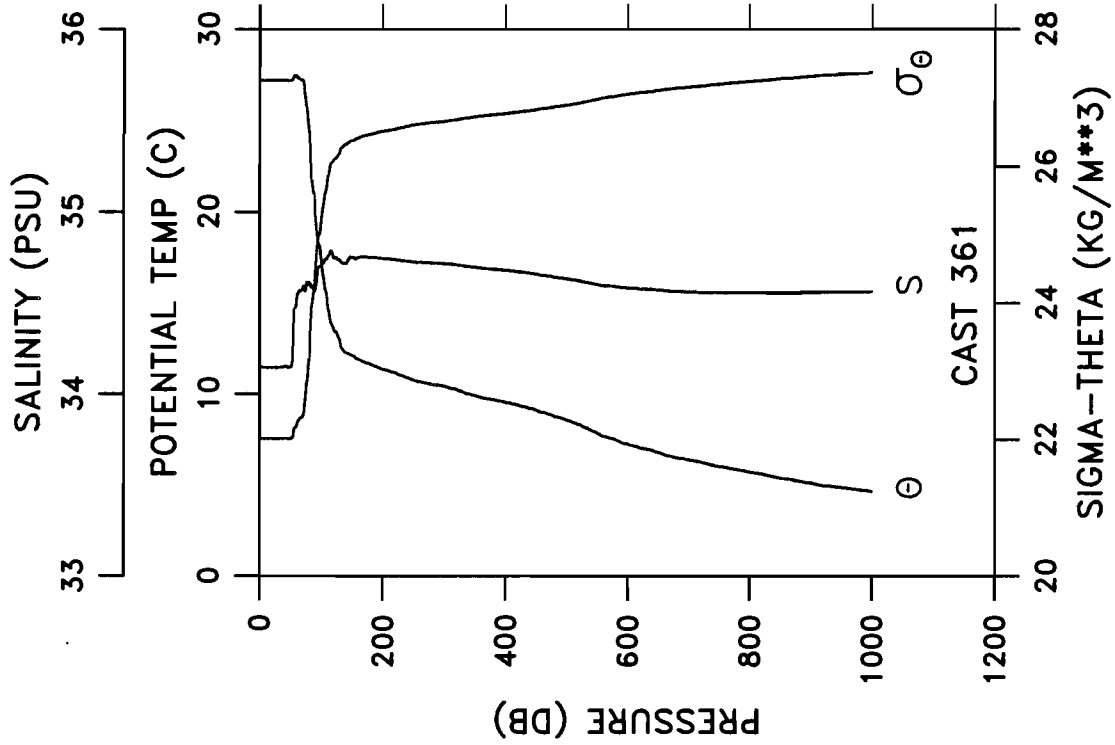


CAST GP5-99-KA-0351 DATE 05 OCT 99 TIME 0537 GMT
 LAT 06 59.9N LONG 124 57.9W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 156 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 24.8 WET 22.0 DEPTH 4665 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH.	DELTA-D (DYN-M)
0	26.435	34.707	22.678	0.000
10	26.427	34.706	22.680	0.052
20	26.431	34.706	22.679	0.103
30	26.430	34.707	22.679	0.155
40	26.422	34.708	22.683	0.207
50	26.298	34.719	22.730	0.258
60	25.734	34.757	22.934	0.309
70	24.964	34.751	23.166	0.357
80	24.705	34.731	23.229	0.404
90	24.230	34.731	23.371	0.450
100	23.539	34.748	23.588	0.495
110	22.403	34.781	23.940	0.537
120	20.937	34.764	24.333	0.576
130	18.578	34.705	24.904	0.610
140	16.465	34.670	25.387	0.639
150	14.390	34.671	25.851	0.663
160	13.630	34.676	26.014	0.683
170	12.560	34.674	26.228	0.703
180	12.154	34.697	26.325	0.721
190	11.966	34.667	26.338	0.738
200	11.876	34.742	26.413	0.755
250	11.021	34.730	26.562	0.834
300	10.443	34.718	26.656	0.908
350	10.060	34.701	26.708	0.980
400	9.680	34.686	26.761	1.049
450	9.119	34.663	26.835	1.116
500	8.541	34.632	26.902	1.179
550	7.791	34.595	26.987	1.239
600	7.245	34.581	27.054	1.296
650	6.685	34.564	27.119	1.349
700	6.312	34.563	27.168	1.400
750	5.984	34.560	27.207	1.448
800	5.675	34.559	27.245	1.495
900	5.074	34.559	27.317	1.585
1000	4.644	34.562	27.369	1.668
1005	4.631	34.562	27.370	1.672

CAST GP5-99-KA-0361 DATE 05 OCT 99 TIME 1450 GMT
 LAT 08 03.3N LONG 124 59.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 178 T SPD 17 KT VISIBILITY 7
 CLOUD 5 AMOUNT 8 DRY 25.0 WET 22.2 DEPTH 4631 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.196	34.146	22.014	0.000
10	27.197	34.144	22.013	0.058
20	27.198	34.145	22.013	0.116
30	27.195	34.144	22.013	0.174
40	27.199	34.149	22.016	0.232
50	27.190	34.144	22.015	0.290
60	27.467	34.521	22.210	0.348
70	27.208	34.585	22.341	0.403
80	24.597	34.614	23.173	0.455
90	20.201	34.568	24.380	0.496
100	17.412	34.703	25.189	0.527
110	14.918	34.757	25.803	0.551
120	13.545	34.748	26.088	0.572
130	12.892	34.739	26.213	0.591
140	12.244	34.719	26.324	0.608
150	12.088	34.752	26.380	0.625
160	11.884	34.751	26.418	0.642
170	11.716	34.753	26.452	0.658
180	11.617	34.751	26.469	0.674
190	11.472	34.750	26.495	0.690
200	11.340	34.745	26.515	0.706
250	10.752	34.726	26.607	0.782
300	10.419	34.716	26.658	0.855
350	9.926	34.696	26.728	0.926
400	9.557	34.680	26.777	0.994
450	9.121	34.660	26.833	1.060
500	8.587	34.635	26.898	1.124
550	7.870	34.602	26.981	1.185
600	7.254	34.585	27.057	1.241
650	6.788	34.572	27.111	1.295
700	6.370	34.562	27.159	1.346
750	6.013	34.557	27.201	1.395
800	5.707	34.557	27.240	1.443
900	5.092	34.558	27.314	1.532
1000	4.641	34.563	27.370	1.616
1004	4.629	34.563	27.371	1.619

CAST GP5-99-KA-0011 LAT 14 41.9N LONG 149 27.0W										CAST GP5-99-KA-0031 LAT 06 59.7N LONG 140 06.8W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)				
203.	12.228	34.386	12.201	26.075		2.	25.640	34.584	25.640	22.835									
203.	12.230	34.386	12.203	26.075		10.	25.610	34.651	25.608	22.895									
202.	12.245	34.386	12.219	26.072		25.	25.487	34.721	25.482	22.986									
203.	12.226	34.386	12.200	26.076		39.	25.314	34.756	25.305	23.066									
203.	12.225	34.386	12.198	26.076		61.	25.192	34.777	25.179	23.120									
202.	12.245	34.387	12.219	26.072		101.	24.303	34.842	24.281	23.439									
202.	12.249	34.386	12.223	26.072		150.	19.577	34.637	19.549	24.587									
203.	12.241	34.387	12.214	26.073		200.	12.314	34.621	12.288	26.237									
202.	12.248	34.388	12.221	26.072		402.	9.248	34.658	9.203	26.817									
203.	12.238	34.387	12.212	26.074		601.	7.603	34.585	7.543	27.015									
203.	12.245	34.386	12.219	26.073		800.	5.797	34.549	5.726	27.231									
203.	12.249	34.386	12.222	26.073		1001.	4.722	34.557	4.641	27.365									
CAST GP5-99-KA-0021 LAT 08 59.8N LONG 140 16.1W										CAST GP5-99-KA-0041 LAT 06 00.2N LONG 140 03.2W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)				
2.	27.570	33.106	27.570	21.111		2.	25.845	34.618	25.844	22.795									
9.	27.369	33.092	27.367	21.165		9.	25.792	34.618	25.790	22.811									
25.	27.269	33.093	27.264	21.298		25.	25.662	34.636	25.656	22.866									
40.	26.604	33.773	26.595	22.114		40.	24.786	34.711	24.777	23.192									
60.	18.267	34.510	18.256	24.830		60.	24.815	34.743	24.802	23.215									
99.	12.654	34.636	12.640	26.182		100.	24.684	34.804	24.663	23.301									
151.	11.167	34.682	11.149	26.501		149.	23.375	34.875	23.344	23.733									
200.	10.657	34.692	10.633	26.601		201.	12.933	34.626	12.905	26.118									
399.	9.158	34.652	9.114	26.827		401.	9.280	34.661	9.235	26.815									
600.	7.153	34.558	7.095	27.057		601.	7.200	34.582	7.142	27.066									
800.	5.628	34.540	5.559	27.244		802.	5.556	34.551	5.486	27.260									
1002.	4.655	34.554	4.574	27.370		996.	4.623	34.558	4.543	27.376									

CAST GP5-99-KA-0051 LAT 04 54.1N LONG 139 53.8W CAST GP5-99-KA-0071 LAT 03 00.2N LONG 139 58.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	25.820	34.656	25.819	22.832	2.	27.212	34.770	27.212	22.480
10.	25.822	34.657	25.820	22.832	10.	27.201	34.770	27.199	22.483
25.	25.817	34.656	25.812	22.834	25.	27.213	34.776	27.207	22.484
40.	25.751	34.653	25.743	22.854	40.	27.176	34.806	27.167	22.528
60.	25.471	34.652	25.457	22.939	60.	26.746	34.898	26.732	22.728
100.	25.109	34.718	25.087	23.113	99.	22.642	34.742	22.622	23.835
150.	22.240	34.827	22.211	23.974	149.	13.589	34.926	13.568	26.220
202.	11.974	34.624	11.948	26.307	199.	12.859	34.890	12.832	26.341
1001.	4.656	34.560	4.575	27.374	400.	9.723	34.688	9.677	26.761
2000.	2.232	34.642	2.092	27.678	600.	6.867	34.575	6.810	27.110
3000.	1.678	34.676	1.457	27.754	800.	5.459	34.550	5.391	27.272
4001.	1.400	34.696	1.084	27.793	1003.	4.438	34.563	4.359	27.399

CAST GP5-99-KA-0061 LAT 04 00.0N LONG 139 57.2W CAST GP5-99-KA-0091 LAT 01 30.1N LONG 139 59.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.198	34.654	26.198	22.712	3.	26.835	34.978	26.835	22.757
10.	26.164	34.654	26.161	22.723	10.	26.727	34.973	26.725	22.789
25.	26.018	34.661	26.013	22.772	26.	26.607	34.969	26.601	22.825
41.	25.951	34.640	25.942	22.779	61.	26.568	34.967	26.554	22.835
60.	25.399	34.695	25.386	23.000	100.	18.267	34.903	18.250	25.135
100.	24.601	34.788	24.579	23.307	151.	13.686	34.932	13.664	26.207
150.	14.711	34.668	14.689	25.771	200.	12.730	34.881	12.703	26.361
202.	11.553	34.619	11.528	26.385	400.	9.408	34.682	9.363	26.812
401.	9.508	34.673	9.463	26.786	601.	7.420	34.588	7.361	27.047
600.	7.079	34.580	7.021	27.082	1000.	4.753	34.553	4.672	27.360
800.	5.433	34.551	5.365	27.274					
1000.	4.582	34.561	4.502	27.382					

CAST GP5-99-KA-0101 LAT 01 00.2N LONG 140 01.4W								CAST GP5-99-KA-0121 LAT 00 02.6N LONG 140 06.1W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	26.480	34.919	26.479	22.825	1001.	4.395	34.560	4.316	27.402						
10.	26.481	34.918	26.479	22.825	1501.	3.027	34.605	2.918	27.577						
25.	26.449	34.916	26.443	22.835	1754.	2.597	34.625	2.473	27.632						
40.	26.378	34.913	26.368	22.856	2000.	2.252	34.642	2.111	27.676						
59.	25.779	34.928	25.766	23.045	2250.	1.978	34.658	1.821	27.711						
100.	15.527	34.913	15.512	25.791	2500.	1.860	34.664	1.683	27.727						
150.	13.395	34.859	13.374	26.209	2750.	1.767	34.670	1.568	27.740						
201.	12.603	34.850	12.576	26.362	3000.	1.699	34.674	1.478	27.750						
401.	9.375	34.694	9.330	26.825	3249.	1.620	34.680	1.376	27.761						
600.	7.448	34.594	7.388	27.045	3497.	1.503	34.687	1.237	27.777						
801.	5.506	34.547	5.438	27.265	3750.	1.436	34.693	1.146	27.788						
1002.	4.363	34.561	4.284	27.407	4003.	1.409	34.696	1.092	27.794						
CAST GP5-99-KA-0111 LAT 00 30.2N LONG 140 02.9W								CAST GP5-99-KA-0131 LAT 00 59.6S LONG 139 54.7W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	26.168	34.921	26.167	22.919	4.	24.104	35.042	24.103	23.645						
10.	26.172	34.913	26.170	22.918	10.	24.103	35.042	24.101	23.646						
26.	26.032	34.909	26.027	22.958	26.	23.815	35.083	23.809	23.761						
41.	24.703	34.873	24.694	23.344	40.	23.557	35.300	23.549	24.003						
61.	20.368	34.887	20.357	24.594	60.	23.562	35.333	23.550	24.031						
101.	15.323	34.715	15.307	25.680	102.	22.657	35.509	22.636	24.427						
201.	12.618	34.845	12.590	26.354	151.	13.964	35.001	13.943	26.198						
401.	9.069	34.680	9.025	26.863	201.	12.727	34.895	12.700	26.372						
600.	7.002	34.584	6.945	27.097	400.	9.704	34.716	9.658	26.785						
801.	5.445	34.549	5.376	27.274	601.	7.699	34.604	7.638	27.017						
1002.	4.372	34.560	4.294	27.406	799.	5.528	34.546	5.459	27.261						
					1000.	4.261	34.562	4.183	27.419						

CAST GP5-99-KA-0141 LAT 01 59.9S LONG 139 57.6W CAST GP5-99-KA-0161 LAT 03 59.7S LONG 139 55.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	24.748	35.032	24.748	23.442	2.	25.990	35.414	25.989	23.350
10.	24.733	35.032	24.730	23.447	10.	25.979	35.411	25.977	23.354
25.	24.459	35.037	24.454	23.535	25.	25.945	35.412	25.940	23.364
40.	24.349	35.055	24.340	23.584	40.	25.847	35.405	25.839	23.392
60.	24.285	35.059	24.272	23.607	59.	25.216	35.384	25.203	23.572
100.	23.808	35.293	23.787	23.955	100.	20.080	35.531	20.062	25.147
151.	13.682	34.978	13.661	26.242	151.	13.505	34.981	13.484	26.280
200.	12.734	34.912	12.707	26.381	200.	12.915	34.921	12.888	26.355
400.	9.514	34.704	9.469	26.808	400.	10.307	34.761	10.260	26.723
601.	7.280	34.593	7.221	27.068	600.	7.173	34.586	7.115	27.079
799.	5.431	34.547	5.362	27.273	800.	5.516	34.538	5.447	27.258
1003.	4.343	34.560	4.265	27.408	1001.	4.516	34.543	4.436	27.378

CAST GP5-99-KA-0151 LAT 02 59.7S LONG 139 56.4W CAST GP5-99-KA-0171 LAT 04 59.3S LONG 139 58.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.160	35.438	26.159	23.318	1000.	4.545	34.547	4.465	27.376
10.	26.162	35.439	26.159	23.318	1501.	2.928	34.603	2.820	27.585
25.	26.156	35.440	26.150	23.322	1751.	2.533	34.625	2.410	27.638
41.	26.002	35.458	25.993	23.385	2000.	2.277	34.642	2.137	27.673
61.	25.795	35.470	25.781	23.458	2249.	2.101	34.650	1.942	27.696
101.	18.806	35.409	18.788	25.367	2750.	1.789	34.672	1.590	27.741
151.	13.524	34.970	13.503	26.269	3000.	1.688	34.677	1.467	27.754
200.	12.913	34.921	12.886	26.356	3248.	1.599	34.681	1.356	27.764
401.	9.321	34.704	9.276	26.843	3499.	1.544	34.685	1.277	27.774
602.	6.681	34.574	6.624	27.135	3749.	1.476	34.689	1.184	27.784
799.	5.198	34.546	5.131	27.301	4005.	1.419	34.694	1.101	27.793
1003.	4.505	34.556	4.426	27.389					

CAST GP5-99-KA-0181 LAT 07 58.2S LONG 125 00.9W										CAST GP5-99-KA-0201 LAT 05 02.3S LONG 124 57.0W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)						PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	24.503	35.024	24.502	23.512						3.	24.607	35.223	24.606	23.631					
9.	24.514	35.024	24.513	23.509						10.	24.597	35.223	24.595	23.634					
24.	24.491	35.022	24.486	23.515						25.	24.455	35.222	24.450	23.677					
40.	24.422	35.020	24.413	23.535						40.	24.484	35.245	24.475	23.688					
59.	24.026	35.028	24.013	23.661						59.	24.319	35.244	24.306	23.733					
100.	21.495	35.451	21.475	24.695						100.	19.924	35.577	19.906	25.215					
151.	18.145	35.415	18.119	25.560						150.	13.214	34.951	13.193	26.316					
200.	14.354	34.982	14.325	26.108						200.	12.048	34.682	12.021	26.491					
398.	9.265	34.699	9.220	26.847						400.	9.157	34.694	9.113	26.860					
600.	7.089	34.582	7.031	27.085						600.	6.780	34.575	6.724	27.123					
801.	5.444	34.535	5.376	27.264						800.	5.422	34.544	5.354	27.271					
1003.	4.345	34.545	4.266	27.396						1003.	4.460	34.547	4.380	27.387					
CAST GP5-99-KA-0191 LAT 07 00.3S LONG 125 00.0W										CAST GP5-99-KA-0211 LAT 04 00.3S LONG 124 55.8W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)						PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	24.887	35.253	24.887	23.567						1.	24.065	35.252	24.064	23.812					
10.	24.899	35.249	24.897	23.563						10.	24.066	35.249	24.064	23.812					
26.	24.908	35.251	24.902	23.564						25.	23.896	35.243	23.891	23.855					
40.	24.820	35.224	24.811	23.566						41.	23.541	35.200	23.533	23.930					
59.	24.316	35.138	24.304	23.651						60.	21.458	35.083	21.447	24.425					
100.	20.895	35.390	20.876	24.830						101.	13.608	34.977	13.593	26.253					
151.	16.338	35.185	16.314	25.802						151.	12.983	34.932	12.962	26.347					
199.	13.055	34.934	13.027	26.336						201.	12.362	34.889	12.335	26.437					
401.	9.504	34.715	9.459	26.820						401.	9.420	34.711	9.375	26.831					
601.	6.657	34.565	6.601	27.130						601.	6.896	34.582	6.839	27.111					
800.	5.216	34.541	5.149	27.294						801.	5.726	34.548	5.656	27.237					
1002.	4.343	34.551	4.264	27.402						1000.	4.732	34.543	4.651	27.352					

CAST GP5-99-KA-0221 LAT 03 00.4S LONG 124 54.8W								CAST GP5-99-KA-0261 LAT 00 10.5S LONG 124 22.3W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	24.125	35.264	24.125	23.805	3.	23.756	34.500	23.755	23.337						
10.	24.098	35.262	24.096	23.814	11.	23.703	34.503	23.701	23.355						
25.	24.061	35.268	24.056	23.829	25.	23.009	34.576	23.004	23.620						
40.	24.069	35.280	24.061	23.835	40.	21.742	34.750	21.734	24.107						
61.	17.678	35.271	17.668	25.543	62.	18.972	34.883	18.961	24.949						
150.	12.975	34.930	12.954	26.348	101.	15.488	34.988	15.472	25.858						
200.	12.503	34.900	12.476	26.420	150.	13.491	34.862	13.470	26.192						
400.	9.822	34.735	9.775	26.782	201.	12.857	34.874	12.830	26.331						
600.	6.876	34.580	6.819	27.112	400.	9.306	34.686	9.261	26.834						
799.	5.502	34.553	5.434	27.270	601.	7.387	34.591	7.328	27.052						
1001.	4.606	34.554	4.525	27.376	802.	5.633	34.549	5.563	27.252						
					1004.	4.463	34.557	4.384	27.395						
CAST GP5-99-KA-0231 LAT 02 06.5S LONG 124 55.3W								CAST GP5-99-KA-0271 LAT 00 30.0N LONG 124 35.8W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
1000.	4.547	34.554	4.467	27.382	2.	24.945	34.632	24.944	23.082						
1500.	3.039	34.600	2.931	27.573	10.	24.942	34.631	24.940	23.084						
1750.	2.545	34.625	2.422	27.637	26.	24.595	34.632	24.590	23.184						
1999.	2.261	34.645	2.120	27.678	39.	21.690	34.656	21.683	24.046						
2251.	2.008	34.655	1.850	27.708	60.	20.502	34.753	20.491	24.452						
2750.	1.739	34.671	1.541	27.743	99.	14.415	34.881	14.401	26.010						
2999.	1.628	34.675	1.408	27.757	150.	12.654	34.880	12.634	26.376						
3251.	1.557	34.680	1.315	27.768	201.	12.186	34.863	12.159	26.453						
3500.	1.498	34.686	1.232	27.778	399.	9.383	34.694	9.338	26.826						
3748.	1.451	34.690	1.161	27.786	600.	6.796	34.569	6.739	27.116						
4004.	1.433	34.696	1.116	27.791	800.	5.326	34.548	5.258	27.288						
					1003.	4.297	34.563	4.219	27.416						

CAST GP5-99-KA-0281 LAT 01 00.0N LONG 124 45.4W CAST GP5-99-KA-0301 LAT 01 57.6N LONG 125 06.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.121	34.672	25.121	23.059	2.	25.049	34.549	25.049	22.988
10.	25.134	34.673	25.132	23.056	9.	25.054	34.548	25.052	22.986
24.	25.131	34.673	25.126	23.057	24.	25.055	34.549	25.049	22.987
41.	21.944	34.665	21.936	23.981	41.	24.448	34.550	24.439	23.181
61.	21.256	34.683	21.244	24.183	60.	21.845	34.721	21.833	24.064
101.	15.417	34.965	15.402	25.854	103.	17.420	34.864	17.402	25.310
150.	13.008	34.899	12.987	26.319	150.	13.855	34.946	13.834	26.181
200.	12.198	34.865	12.171	26.450	201.	12.986	34.896	12.959	26.322
401.	9.591	34.694	9.546	26.790	401.	9.523	34.683	9.477	26.793
600.	6.788	34.567	6.732	27.116	601.	7.111	34.584	7.053	27.083
800.	5.412	34.549	5.344	27.278	801.	5.369	34.549	5.301	27.282
1002.	4.567	34.563	4.487	27.387	1002.	4.494	34.561	4.414	27.393

CAST GP5-99-KA-0291 LAT 01 30.0N LONG 124 55.5W CAST GP5-99-KA-0311 LAT 03 00.1N LONG 125 01.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
5.	24.930	34.585	24.929	23.050	3.	24.562	34.386	24.561	23.011
10.	24.934	34.586	24.932	23.050	10.	24.566	34.385	24.564	23.010
26.	24.937	34.583	24.931	23.050	26.	24.575	34.385	24.570	23.008
40.	23.861	34.631	23.852	23.404	40.	24.557	34.388	24.548	23.017
60.	21.398	34.705	21.386	24.163	61.	23.438	34.540	23.426	23.460
101.	15.489	34.954	15.473	25.829	100.	20.522	34.730	20.503	24.428
151.	13.478	34.927	13.457	26.244	150.	14.207	34.957	14.185	26.116
201.	12.578	34.874	12.551	26.385	201.	13.016	34.895	12.988	26.315
400.	9.497	34.682	9.452	26.794	401.	10.083	34.709	10.036	26.719
601.	6.919	34.578	6.862	27.104	601.	7.186	34.581	7.128	27.071
800.	5.246	34.555	5.179	27.299	801.	5.580	34.551	5.511	27.260
998.	4.417	34.565	4.338	27.404	1002.	4.479	34.560	4.400	27.395

CAST GP5-99-KA-0321 LAT 03 59.9N LONG 124 57.1W CAST GP5-99-KA-0341 LAT 05 59.9N LONG 124 57.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	24.563	34.346	24.562	22.981	4.	24.670	34.393	24.669	22.984
10.	24.565	34.346	24.563	22.981	10.	24.654	34.391	24.652	22.989
25.	24.568	34.347	24.563	22.980	25.	24.480	34.406	24.475	23.051
41.	24.569	34.346	24.560	22.980	41.	24.344	34.518	24.335	23.187
60.	23.656	34.394	23.643	23.289	60.	24.391	34.602	24.378	23.230
100.	21.715	34.698	21.695	24.079	101.	23.966	34.712	23.945	23.440
150.	17.529	34.870	17.504	25.294	150.	20.574	34.859	20.545	24.510
201.	13.537	34.926	13.509	26.233	201.	13.264	34.670	13.236	26.087
401.	10.648	34.732	10.599	26.639	401.	9.603	34.681	9.557	26.778
600.	7.672	34.606	7.612	27.021	601.	7.617	34.601	7.556	27.026
800.	5.917	34.559	5.846	27.223	801.	5.779	34.556	5.709	27.239
1002.	4.821	34.560	4.739	27.356	1005.	4.718	34.561	4.636	27.369

CAST GP5-99-KA-0331 LAT 05 21.9N LONG 124 57.6W CAST GP5-99-KA-0351 LAT 06 59.9N LONG 124 57.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	24.592	34.353	24.591	22.978	3.	26.428	34.708	26.427	22.682
10.	24.599	34.352	24.597	22.976	10.	26.426	34.708	26.423	22.682
24.	24.599	34.352	24.594	22.976	25.	26.434	34.707	26.429	22.680
39.	24.599	34.353	24.591	22.978	41.	26.429	34.709	26.420	22.684
60.	24.464	34.366	24.451	23.029	60.	25.596	34.748	25.582	22.979
99.	22.570	34.513	22.550	23.695	100.	23.575	34.751	23.554	23.581
150.	19.781	34.741	19.754	24.615	150.	14.957	34.650	14.934	25.714
200.	13.849	34.835	13.820	26.098	201.	12.009	34.727	11.983	26.384
1000.	4.705	34.562	4.624	27.371	402.	9.691	34.682	9.644	26.764
2000.	2.389	34.636	2.246	27.661	601.	7.283	34.579	7.224	27.056
2999.	1.755	34.674	1.533	27.746	797.	5.759	34.557	5.689	27.243
4006.	1.465	34.692	1.147	27.787	1004.	4.714	34.561	4.633	27.370

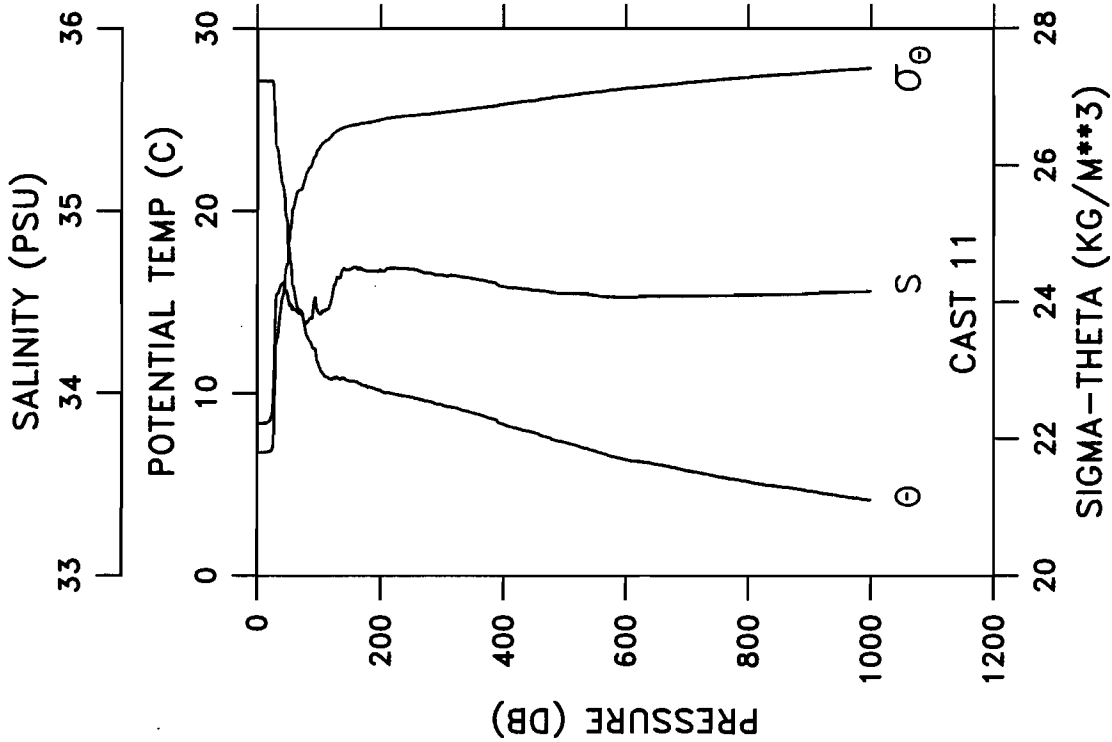
CAST GP5-99-KA-0361 LAT 08 03.3N LONG 124 59.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.187	34.146	27.186	22.017
9.	27.183	34.143	27.181	22.017
24.	27.187	34.144	27.182	22.016
40.	27.200	34.147	27.191	22.017
60.	27.260	34.556	27.246	22.302
100.	16.668	34.693	16.652	25.363
150.	12.102	34.747	12.082	26.378
201.	11.329	34.741	11.304	26.519
401.	9.584	34.676	9.538	26.778
599.	7.261	34.583	7.202	27.061
800.	5.793	34.557	5.722	27.238
1004.	4.712	34.562	4.630	27.371



GP7-99-KA
October 23–November 10, 1999
CTD and Hydrographic Data Summary

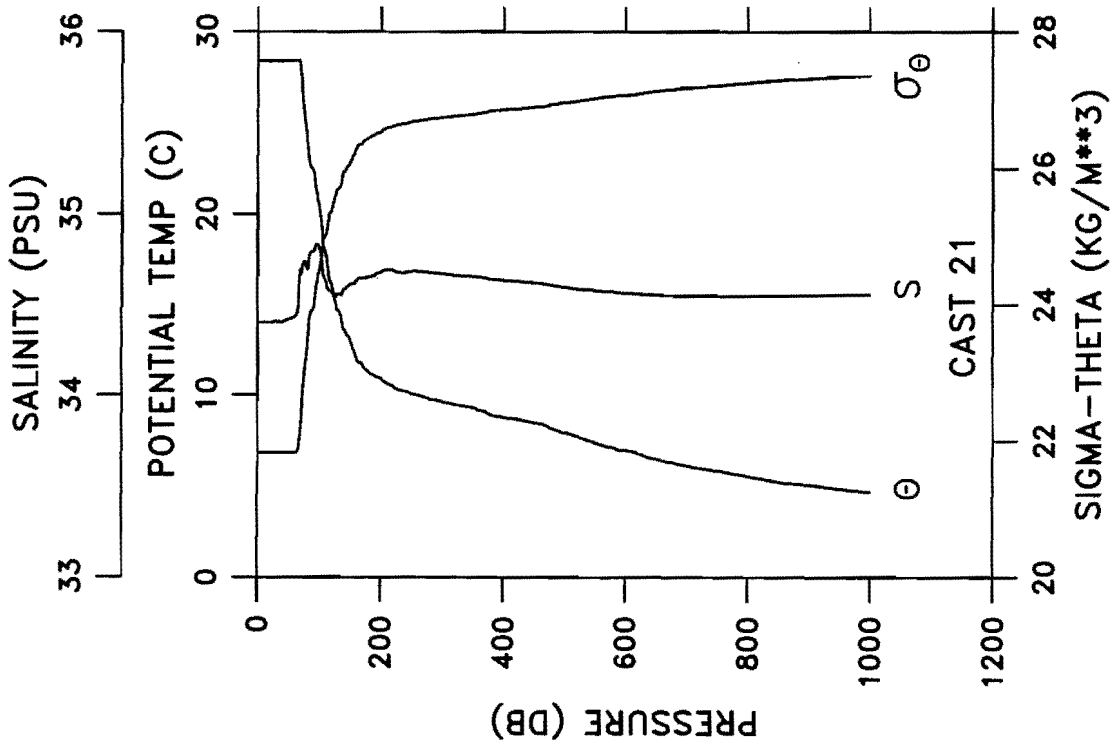
CAST GP7-99-KA-0011 DATE 23 OCT 99 TIME 2054 GMT
 LAT 10 34.1N LONG 155 33.7W WEATHER 1 SEA STATE 5
 BAROMETER 12 WIND DIR 062 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.4 WET 24.9 DEPTH 5146 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.147	33.837	21.798	0.000
10	27.143	33.837	21.799	0.060
20	27.136	33.852	21.812	0.120
30	23.762	34.524	23.353	0.177
40	21.528	34.603	24.049	0.219
50	18.535	34.507	24.763	0.255
60	15.521	34.458	25.439	0.283
70	14.493	34.432	25.645	0.307
80	13.111	34.390	25.899	0.329
90	12.429	34.443	26.075	0.350
100	11.461	34.435	26.252	0.368
110	10.915	34.451	26.364	0.386
120	10.758	34.514	26.441	0.402
130	10.850	34.634	26.518	0.418
140	10.835	34.687	26.562	0.433
150	10.651	34.679	26.589	0.448
160	10.637	34.691	26.601	0.463
170	10.447	34.679	26.625	0.477
180	10.332	34.669	26.637	0.492
190	10.253	34.671	26.652	0.506
200	10.128	34.673	26.675	0.520
250	9.795	34.682	26.738	0.589
300	9.374	34.651	26.785	0.655
350	8.926	34.631	26.841	0.720
400	8.296	34.584	26.903	0.782
450	7.847	34.564	26.954	0.842
500	7.296	34.547	27.021	0.899
550	6.808	34.537	27.081	0.953
600	6.329	34.526	27.136	1.005
650	6.084	34.532	27.172	1.055
700	5.724	34.534	27.219	1.103
750	5.402	34.536	27.260	1.149
800	5.152	34.537	27.290	1.193
900	4.627	34.546	27.358	1.277
1000	4.122	34.559	27.423	1.355
1004	4.110	34.559	27.424	1.358

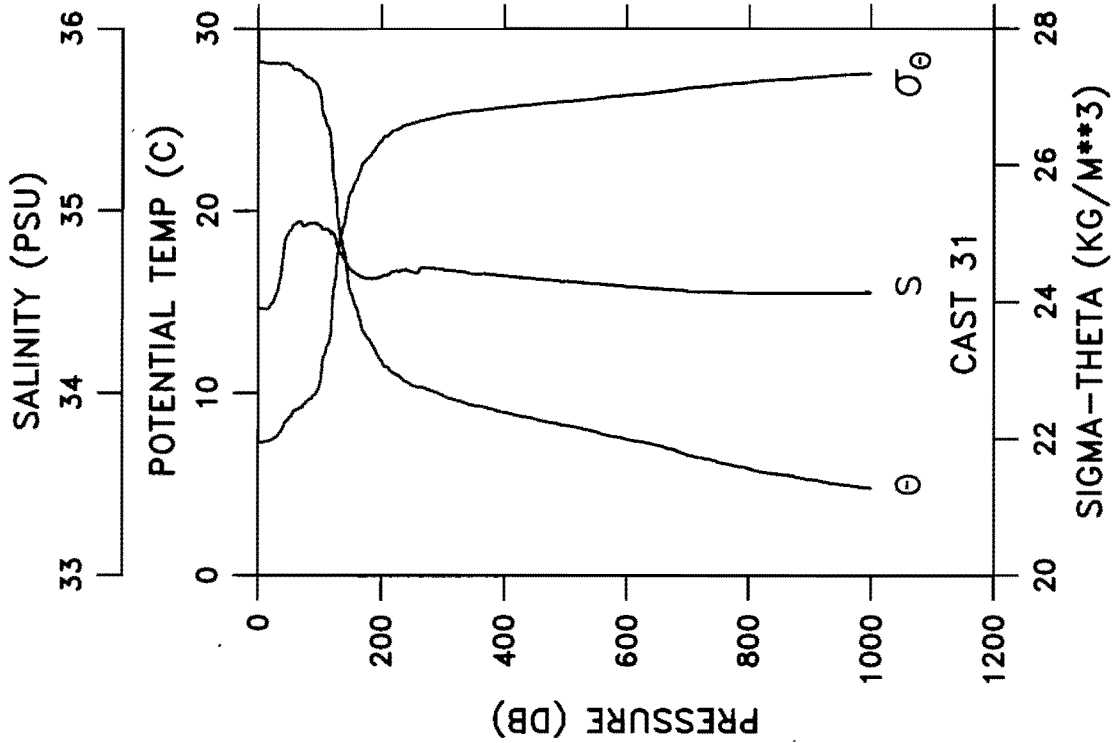
CAST GP7-99-KA-0021 DATE 24 OCT 99 TIME 1506 GMT
 LAT 07 56.7N LONG 154 59.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 096 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.9 WET 24.8 DEPTH 5204 M

PRES (DB)	POT TEMP (C)	SAL (FSU)	SIG-TH	DELTA-D (DYN-M)
0	28.391	34.401	21.818	0.000
10	28.385	34.401	21.821	0.060
20	28.389	34.401	21.819	0.120
30	28.397	34.407	21.821	0.180
40	28.389	34.402	21.820	0.240
50	28.406	34.416	21.825	0.300
60	28.424	34.434	21.832	0.360
70	27.836	34.665	22.198	0.419
80	24.256	34.702	23.342	0.469
90	22.441	34.794	23.939	0.511
100	20.466	34.813	24.496	0.548
110	17.868	34.831	25.023	0.580
120	16.080	34.568	25.398	0.607
130	14.700	34.557	25.696	0.632
140	13.568	34.585	25.957	0.654
150	13.050	34.613	26.083	0.674
160	12.090	34.630	26.285	0.693
170	11.712	34.647	26.370	0.710
180	11.299	34.653	26.451	0.726
190	11.081	34.659	26.496	0.742
200	10.942	34.679	26.536	0.758
250	10.086	34.683	26.690	0.830
300	9.663	34.670	26.752	0.899
350	9.323	34.657	26.798	0.965
400	8.794	34.635	26.866	1.030
450	8.498	34.622	26.902	1.092
500	7.924	34.597	26.969	1.152
550	7.401	34.578	27.030	1.209
600	6.974	34.563	27.079	1.264
650	6.485	34.555	27.139	1.316
700	6.104	34.548	27.183	1.366
750	5.834	34.546	27.215	1.414
800	5.520	34.547	27.254	1.461
900	5.048	34.550	27.313	1.549
1000	4.660	34.554	27.360	1.633
1006	4.642	34.554	27.362	1.638

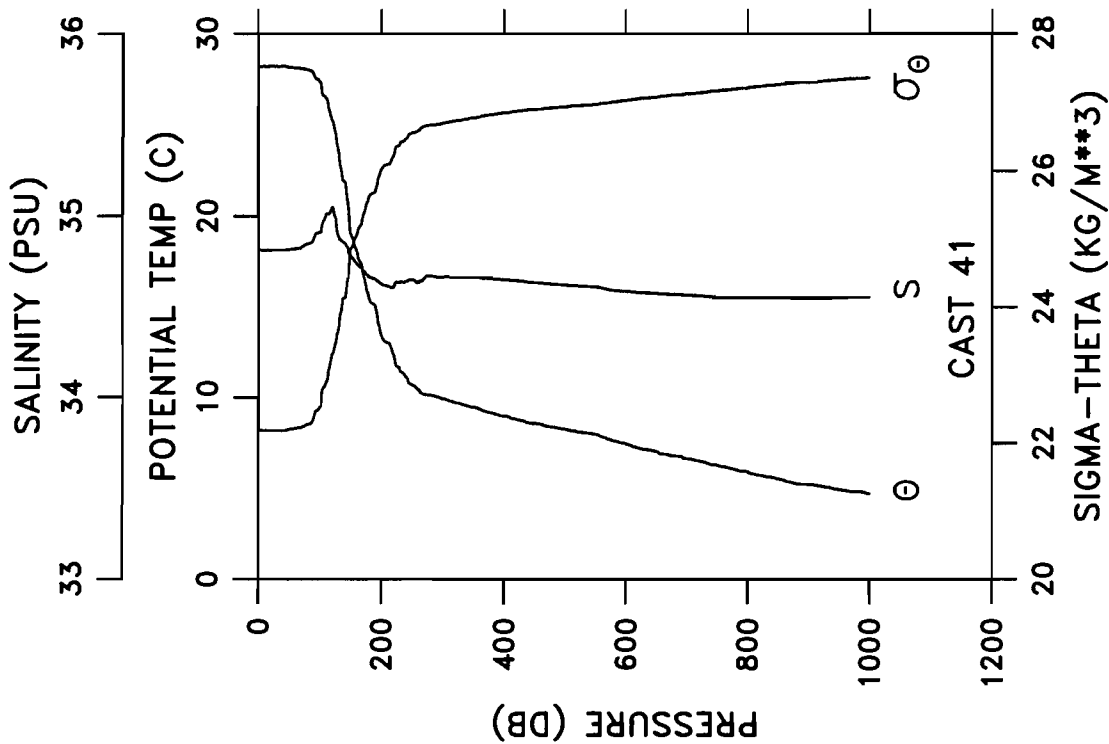


CAST GP7-99--KA-0031 DATE 24 OCT 99 TIME 2245 GMT
 LAT 07 01.3N LONG 154 57.0W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DIR 123 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 27.8 WET 23.9 DEPTH 4833 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.169	34.467	21.941	0.000
10	28.141	34.464	21.948	0.059
20	28.107	34.487	21.976	0.117
30	28.090	34.550	22.029	0.175
40	28.114	34.738	22.163	0.233
50	28.036	34.882	22.297	0.289
60	27.765	34.926	22.418	0.344
70	27.665	34.938	22.459	0.398
80	27.334	34.928	22.559	0.452
90	27.090	34.934	22.641	0.504
100	26.498	34.924	22.822	0.556
110	24.815	34.899	23.323	0.604
120	22.877	34.883	23.882	0.649
130	19.466	34.789	24.742	0.685
140	17.685	34.735	25.147	0.715
150	15.544	34.680	25.605	0.741
160	14.641	34.653	25.783	0.764
170	13.426	34.637	26.026	0.786
180	12.969	34.630	26.113	0.806
190	12.320	34.632	26.242	0.824
200	11.797	34.639	26.348	0.842
250	10.435	34.665	26.615	0.920
300	9.909	34.681	26.719	0.992
350	9.336	34.657	26.795	1.059
400	8.968	34.645	26.845	1.124
450	8.598	34.628	26.891	1.187
500	8.258	34.615	26.933	1.248
550	7.908	34.602	26.976	1.308
600	7.487	34.587	27.025	1.365
650	7.129	34.575	27.066	1.421
700	6.807	34.562	27.127	1.474
750	6.212	34.555	27.174	1.526
800	5.878	34.549	27.212	1.574
900	5.286	34.549	27.284	1.667
1000	4.797	34.553	27.344	1.753
1006	4.776	34.553	27.346	1.758

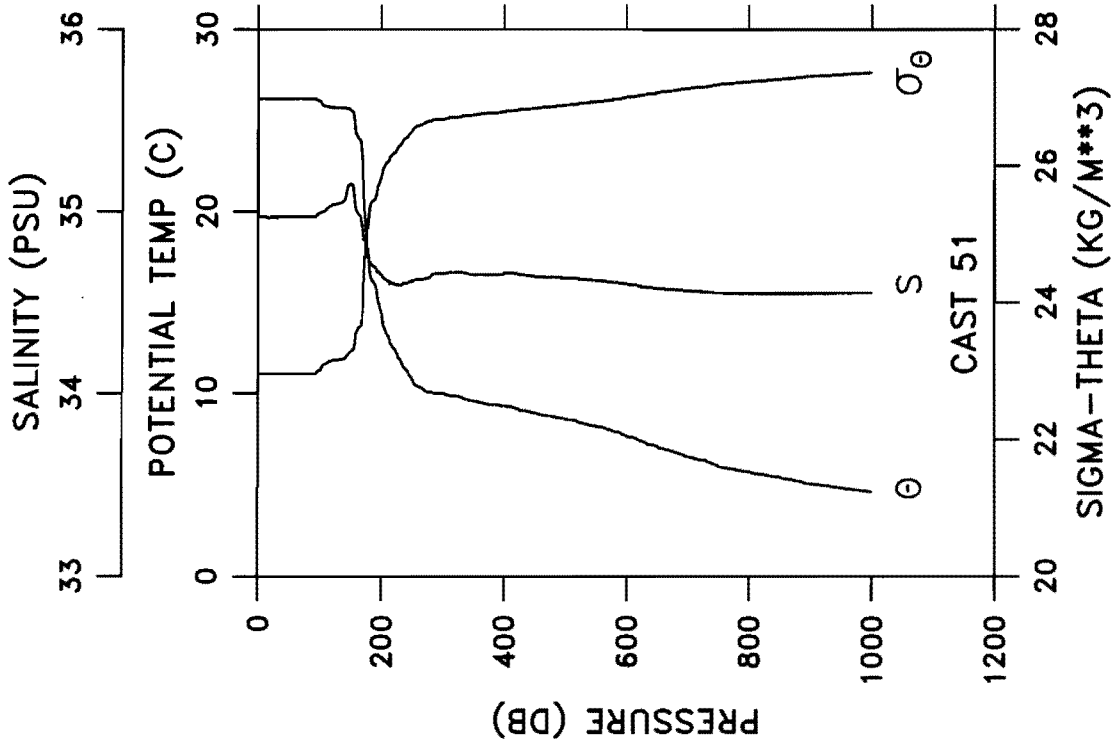


CAST GP7-99-KA-0041 DATE 25 OCT 99 TIME 0638 GMT
 LAT 06 00.4N LONG 154 56.2W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 128 T SPD 17 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 26.8 WET 24.7 DEPTH 4770 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH (DYN-M)	DELTA-D (DYN-M)
0	28.204	34.814	22.191	0.000
10	28.208	34.813	22.188	0.056
20	28.211	34.813	22.187	0.113
30	28.208	34.814	22.189	0.169
40	28.209	34.814	22.189	0.226
50	28.159	34.816	22.206	0.282
60	28.118	34.819	22.222	0.338
70	28.091	34.829	22.259	0.395
80	28.021	34.847	22.275	0.451
90	27.774	34.874	22.376	0.506
100	27.384	34.911	22.530	0.560
110	26.479	35.010	22.892	0.612
120	25.252	35.048	23.302	0.660
130	23.595	34.889	23.678	0.704
140	21.908	34.854	24.134	0.744
150	19.015	34.783	24.853	0.780
160	18.065	34.740	25.058	0.810
170	16.849	34.706	25.325	0.839
180	15.442	34.667	25.618	0.864
190	15.060	34.653	25.692	0.888
200	13.404	34.629	26.024	0.910
250	10.730	34.651	26.552	0.998
300	9.946	34.663	26.698	1.071
350	9.500	34.664	26.774	1.139
400	9.001	34.652	26.846	1.204
450	8.596	34.636	26.897	1.267
500	8.280	34.623	26.936	1.328
550	7.996	34.613	26.971	1.388
600	7.480	34.589	27.027	1.445
650	7.057	34.577	27.077	1.500
700	6.647	34.566	27.126	1.553
750	6.278	34.556	27.166	1.604
800	5.916	34.551	27.209	1.654
900	5.210	34.549	27.293	1.745
1000	4.685	34.555	27.359	1.831
1004	4.678	34.555	27.359	1.834

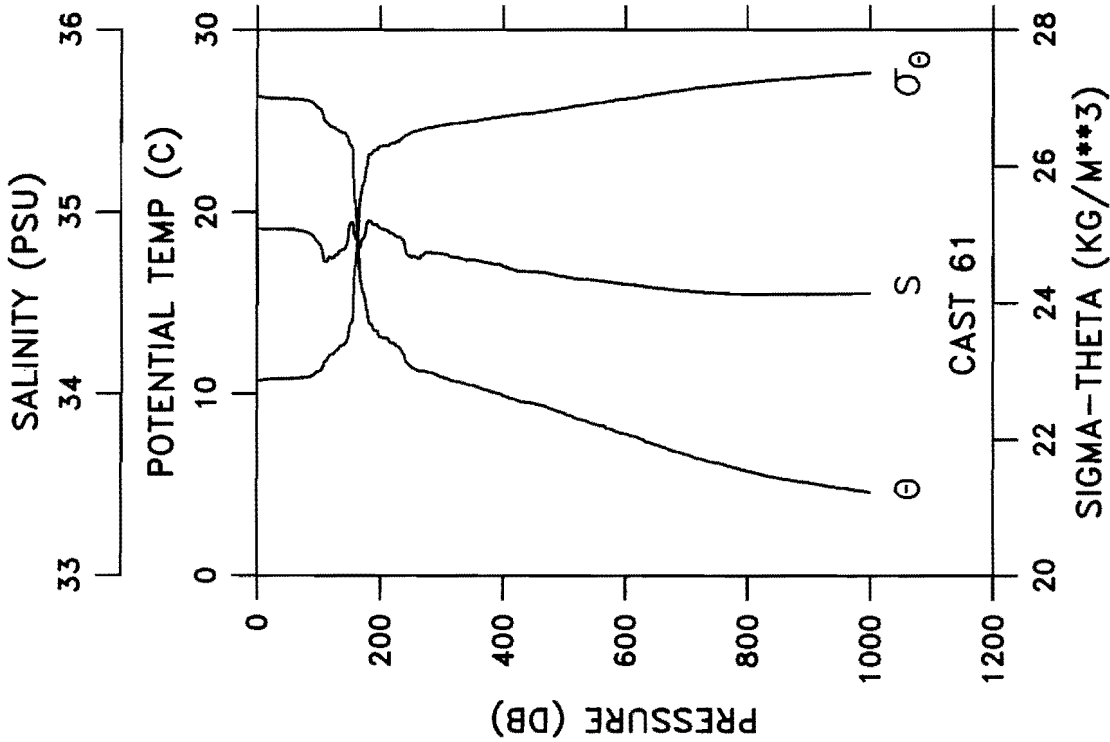
CAST GP7-99-KA-0051 DATE 25 OCT 99 TIME 1431 GMT
 LAT 04 59.0N LONG 154 55.7W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 090 T SPD 09 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 25.6 WET 23.9 DEPTH 4546 M



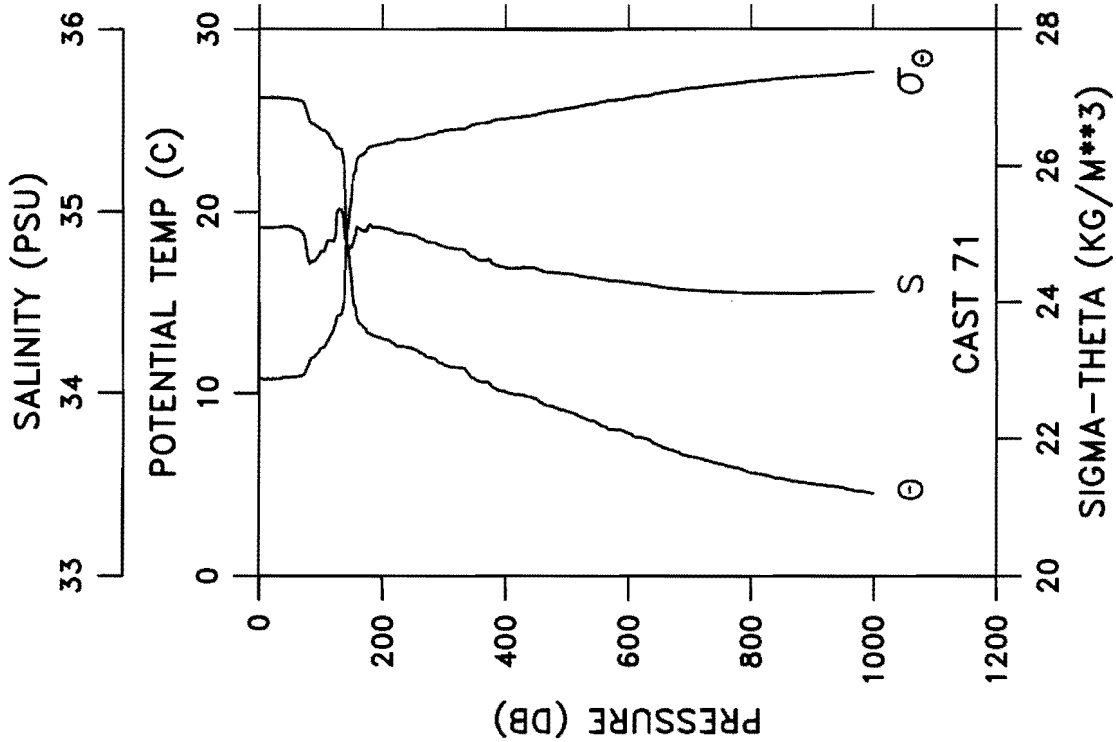
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.183	34.972	22.957	0.000
10	26.186	34.972	22.956	0.049
20	26.176	34.965	22.954	0.098
30	26.178	34.965	22.953	0.147
40	26.186	34.970	22.954	0.196
50	26.190	34.972	22.955	0.245
60	26.190	34.972	22.955	0.295
70	26.189	34.971	22.954	0.344
80	26.190	34.972	22.955	0.393
90	26.187	34.972	22.956	0.443
100	26.066	34.993	23.009	0.492
110	25.814	35.010	23.101	0.540
120	25.725	35.038	23.149	0.588
130	25.716	35.044	23.157	0.636
140	25.703	35.061	23.173	0.683
150	25.596	35.151	23.275	0.731
160	24.242	35.001	23.572	0.776
170	22.633	34.881	23.950	0.819
180	17.177	34.724	25.261	0.851
190	15.934	34.690	25.525	0.877
200	14.383	34.653	25.839	0.900
250	10.791	34.614	26.513	0.992
300	10.003	34.660	26.887	1.065
350	9.602	34.653	26.748	1.134
400	9.324	34.662	26.801	1.201
450	8.935	34.645	26.851	1.266
500	8.601	34.633	26.894	1.329
550	8.226	34.621	26.943	1.391
600	7.661	34.601	27.011	1.450
650	7.085	34.575	27.073	1.506
700	6.529	34.564	27.140	1.559
750	6.023	34.554	27.197	1.609
800	5.703	34.550	27.234	1.657
900	5.056	34.550	27.312	1.747
1000	4.606	34.556	27.368	1.830
1005	4.583	34.557	27.371	1.834

CAST GP7-99-KA-0061 DATE 25 OCT 99 TIME 2222 GMT
 LAT 04 00.9N LONG 154 57.0W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 086 T SPD 16 KT VISIBILITY 7
 CLOUD 2 AMOUNT 5 DRY 26.8 WET 23.4 DEPTH 4648 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.331	34.912	22.865	0.000
10	26.285	34.907	22.876	0.050
20	26.257	34.907	22.885	0.100
30	26.242	34.907	22.890	0.149
40	26.233	34.906	22.892	0.199
50	26.223	34.905	22.894	0.249
60	26.209	34.903	22.897	0.299
70	26.172	34.897	22.904	0.348
80	26.125	34.889	22.913	0.398
90	26.001	34.872	22.938	0.448
100	25.698	34.830	23.001	0.497
110	24.978	34.730	23.146	0.546
120	24.692	34.748	23.246	0.593
130	24.508	34.768	23.316	0.639
140	24.340	34.794	23.386	0.685
150	23.763	34.930	23.660	0.730
160	20.308	34.852	24.569	0.770
170	15.830	34.846	25.669	0.798
180	14.155	34.944	26.112	0.820
190	13.495	34.930	26.239	0.839
200	13.139	34.911	26.296	0.857
250	11.507	34.754	26.492	0.942
300	10.951	34.771	26.607	1.019
350	10.503	34.738	26.661	1.093
400	9.926	34.704	26.734	1.164
450	9.516	34.674	26.779	1.232
500	8.961	34.648	26.849	1.299
550	8.372	34.627	26.925	1.362
600	7.830	34.607	26.991	1.421
650	7.232	34.586	27.060	1.478
700	6.687	34.569	27.122	1.532
750	6.205	34.557	27.177	1.583
800	5.746	34.551	27.230	1.631
900	5.112	34.550	27.305	1.721
1000	4.576	34.557	27.372	1.805
1003	4.565	34.557	27.373	1.807

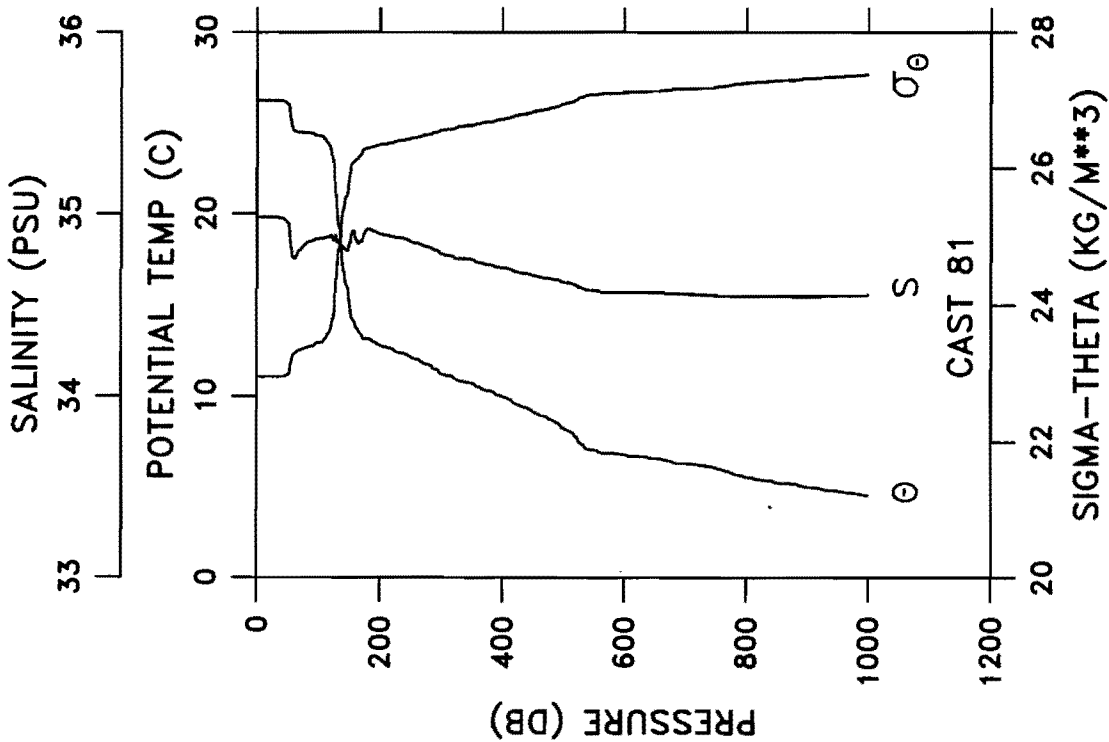


CAST GP7-99-KA-0071 DATE 26 OCT 99 TIME 0537 GMT
 LAT 03 00.5N LONG 154 57.4W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 076 T SPD 17 KT VISIBILITY 7
 CLOUD 6 AMOUNT 5 DRY 26.0 WET 23.5 DEPTH 4748 M



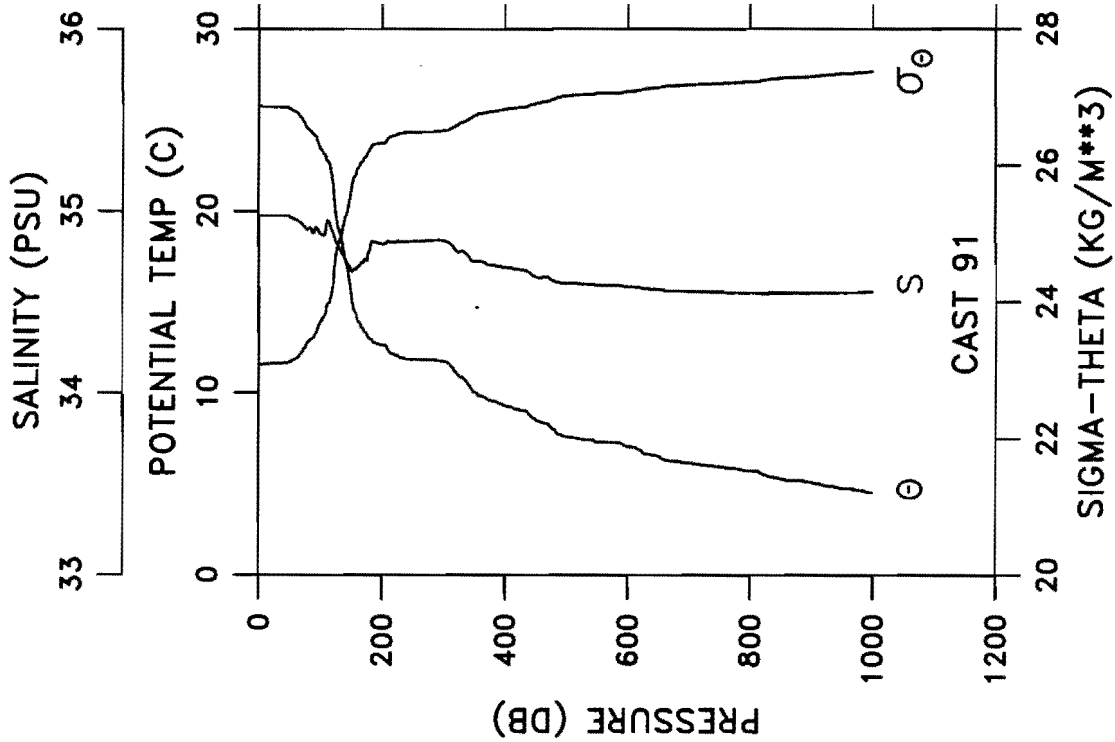
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.300	34.915	22.877	0.000
10	26.303	34.912	22.874	0.050
20	26.301	34.912	22.875	0.100
30	26.299	34.913	22.876	0.149
40	26.239	34.918	22.899	0.199
50	26.225	34.917	22.902	0.249
60	26.164	34.904	22.912	0.299
70	26.055	34.882	22.929	0.348
80	25.233	34.732	23.069	0.397
90	24.802	34.729	23.199	0.445
100	24.527	34.781	23.321	0.491
110	24.367	34.837	23.410	0.537
120	23.786	34.835	23.581	0.581
130	23.463	35.013	23.811	0.623
140	19.293	34.837	24.823	0.663
150	16.062	34.802	25.582	0.691
160	13.973	34.910	26.124	0.712
170	13.582	34.894	26.193	0.731
180	13.257	34.927	26.285	0.749
190	13.091	34.912	26.307	0.767
200	12.974	34.909	26.328	0.784
250	12.435	34.870	26.405	0.870
300	11.548	34.805	26.524	0.951
350	10.802	34.748	26.615	1.029
400	10.076	34.691	26.698	1.102
450	9.710	34.686	26.756	1.172
500	9.009	34.658	26.849	1.239
550	8.374	34.630	26.927	1.302
600	7.813	34.609	26.995	1.361
650	7.130	34.585	27.074	1.418
700	6.514	34.566	27.143	1.470
750	6.115	34.557	27.188	1.520
800	5.630	34.550	27.244	1.568
900	5.033	34.549	27.314	1.657
1000	4.511	34.559	27.381	1.741
1003	4.510	34.559	27.381	1.743

CAST GP7-99-KA-0081 DATE 26 OCT 99 TIME 1339 GMT
 LAT 02 00.3N LONG 154 59.6W WEATHER 1 SEA STATE 3
 BAROMETER 10 WIND DIR 120 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 5 DRY 25.3 WET 23.0 DEPTH 4640 M



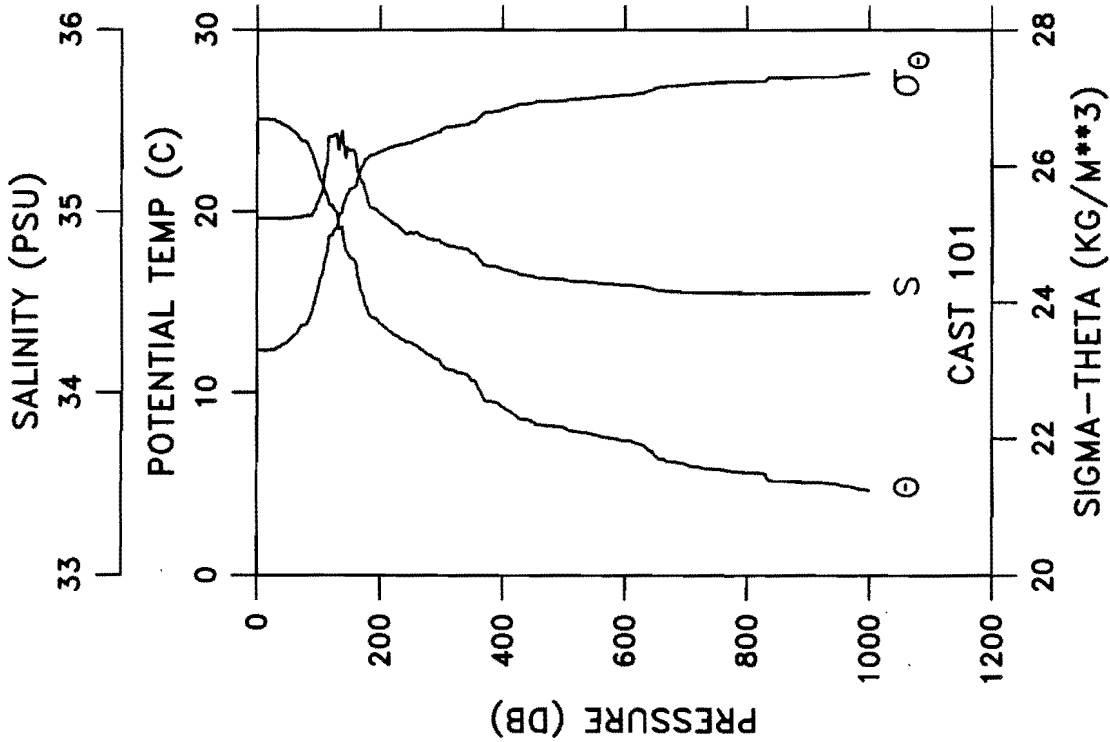
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.212	34.981	22.955	0.000
10	26.214	34.980	22.954	0.049
20	26.208	34.980	22.955	0.098
30	26.214	34.980	22.953	0.147
40	26.198	34.975	22.955	0.196
50	26.023	34.947	22.988	0.245
60	24.556	34.755	23.292	0.293
70	24.483	34.800	23.348	0.339
80	24.458	34.837	23.384	0.384
90	24.416	34.851	23.406	0.429
100	24.293	34.862	23.452	0.474
110	24.109	34.868	23.511	0.519
120	23.568	34.882	23.681	0.562
130	20.341	34.843	24.553	0.601
140	16.906	34.814	25.395	0.632
150	15.007	34.834	25.844	0.656
160	13.814	34.865	26.122	0.676
170	13.346	34.849	26.207	0.695
180	13.156	34.915	26.297	0.713
190	12.977	34.902	26.322	0.731
200	12.807	34.890	26.347	0.748
250	12.153	34.845	26.440	0.832
300	11.227	34.779	26.563	0.912
350	10.734	34.750	26.629	0.988
400	10.014	34.703	26.718	1.060
450	9.136	34.663	26.833	1.128
500	8.264	34.627	26.941	1.191
550	7.072	34.580	27.078	1.247
600	6.814	34.571	27.107	1.300
650	6.581	34.568	27.136	1.351
700	6.314	34.562	27.166	1.402
750	6.081	34.553	27.189	1.451
800	5.556	34.549	27.252	1.499
900	5.013	34.549	27.316	1.588
1000	4.537	34.556	27.376	1.671
1002	4.526	34.557	27.377	1.672

CAST GP7-99-KA-0091 DATE 26 OCT 99 TIME 2102 GMT
 LAT 01 00.1N LONG 154 58.9W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 096 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.6 WET 22.6 DEPTH 4707 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH (DYN-M)	DELTA-D (DYN-M)
0	25.781	34.977	23.086	0.000
10	25.755	34.976	23.093	0.048
20	25.736	34.976	23.099	0.095
30	25.722	34.976	23.103	0.143
40	25.704	34.975	23.108	0.191
50	25.644	34.970	23.123	0.239
60	25.450	34.954	23.171	0.286
70	25.100	34.932	23.261	0.333
80	24.492	34.901	23.421	0.378
90	24.207	34.889	23.497	0.423
100	23.436	34.873	23.713	0.466
110	22.788	34.935	23.947	0.507
120	21.642	34.887	24.233	0.547
130	18.937	34.795	24.881	0.580
140	17.294	34.738	25.244	0.610
150	15.435	34.671	25.623	0.636
160	13.983	34.694	25.955	0.658
170	13.423	34.725	26.095	0.678
180	12.974	34.792	26.238	0.697
190	12.730	34.828	26.314	0.715
200	12.639	34.820	26.326	0.732
250	11.851	34.834	26.489	0.815
300	11.747	34.836	26.510	0.894
350	10.041	34.722	26.728	0.970
400	9.295	34.690	26.828	1.036
450	8.522	34.636	26.909	1.100
500	7.595	34.602	27.021	1.158
550	7.282	34.593	27.059	1.214
600	7.020	34.584	27.088	1.268
650	6.526	34.569	27.144	1.320
700	6.139	34.559	27.187	1.369
750	5.946	34.555	27.208	1.418
800	5.726	34.551	27.233	1.465
900	5.097	34.548	27.306	1.555
1000	4.513	34.556	27.378	1.638
1003	4.510	34.555	27.378	1.640

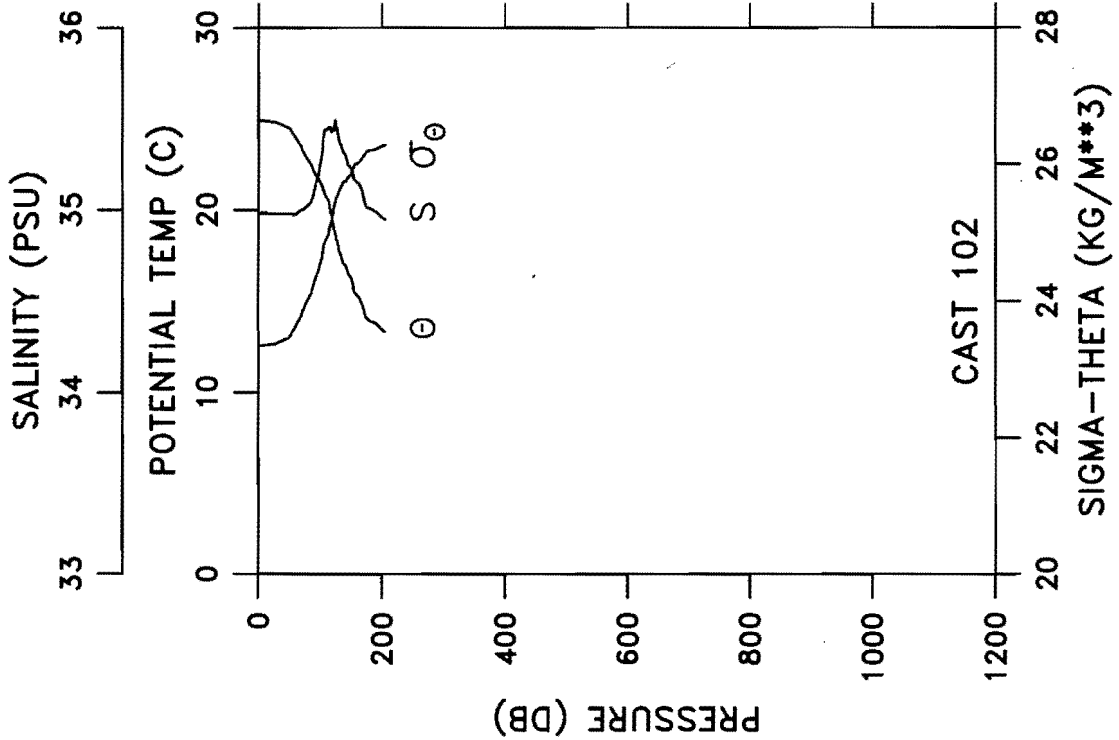
CAST GP7-99-KA-0101 DATE 27 OCT 99 TIME 1013 GMT
 LAT 00 04.6N LONG 155 03.4W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 072 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 24.7 WET 22.5 DEPTH 4629 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.095	34.965	23.288	0.000
10	25.092	34.963	23.287	0.046
20	25.070	34.963	23.294	0.092
30	24.995	34.962	23.316	0.138
40	24.809	34.962	23.372	0.183
50	24.648	34.964	23.422	0.228
60	24.380	34.969	23.506	0.272
70	23.971	34.968	23.627	0.316
80	23.856	34.977	23.669	0.359
90	23.150	34.984	23.880	0.400
100	22.062	35.058	24.246	0.439
110	21.127	35.226	24.633	0.474
120	20.358	35.413	24.983	0.506
130	19.871	35.416	25.114	0.535
140	18.478	35.368	25.436	0.563
150	17.500	35.340	25.656	0.587
160	17.206	35.308	25.703	0.611
170	15.528	35.168	25.985	0.633
180	14.468	35.054	26.130	0.653
190	14.129	35.016	26.173	0.672
200	13.816	34.988	26.217	0.690
250	12.793	34.884	26.345	0.779
300	11.523	34.831	26.548	0.862
350	10.682	34.772	26.655	0.938
400	9.229	34.684	26.834	1.006
450	8.398	34.643	26.933	1.067
500	8.100	34.626	26.966	1.126
550	7.715	34.610	27.010	1.184
600	7.391	34.596	27.046	1.240
650	6.520	34.570	27.145	1.294
700	6.067	34.555	27.193	1.344
750	5.798	34.552	27.225	1.391
800	5.619	34.550	27.245	1.438
900	5.082	34.548	27.308	1.526
1000	4.621	34.554	27.364	1.612
1500	2.952	34.603	27.573	1.963
2000	2.157	34.639	27.670	2.243
2500	1.689	34.663	27.725	2.493
3000	1.439	34.676	27.754	2.723
3500	1.233	34.685	27.777	2.945
4000	1.101	34.693	27.792	3.161
4006	1.101	34.693	27.792	3.164

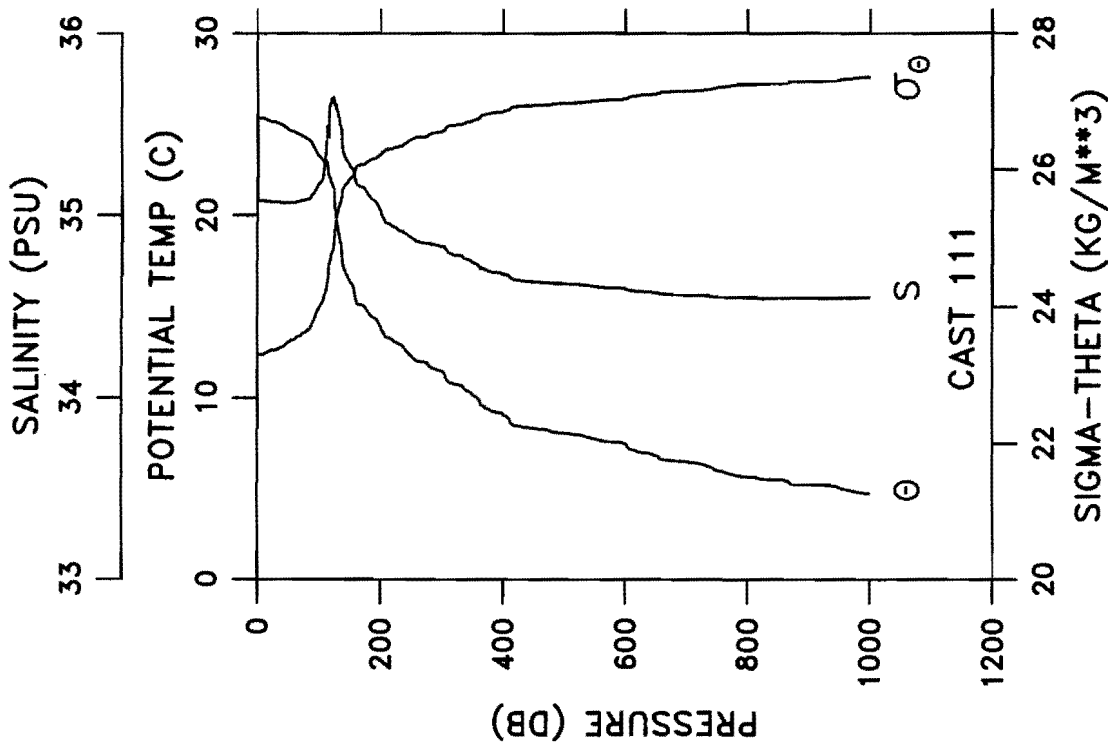
CAST GP7-99-KA-0102 DATE 27 OCT 99 TIME 2158 GMT
 LAT 00 01.1N LONG 155 02.8W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 072 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 25.2 WET 22.2 DEPTH 4649 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.902	34.982	23.359	0.000
10	24.882	34.983	23.366	0.045
20	24.840	34.982	23.378	0.090
30	24.763	34.980	23.400	0.135
40	24.640	34.980	23.437	0.180
50	24.481	34.979	23.484	0.224
60	23.961	34.974	23.635	0.268
70	23.389	35.001	23.823	0.310
80	22.736	35.022	24.027	0.350
90	22.080	35.098	24.271	0.388
100	21.514	35.249	24.544	0.423
110	20.715	35.439	24.907	0.456
120	19.391	35.439	25.258	0.485
130	17.858	35.386	25.604	0.511
140	17.007	35.305	25.747	0.534
150	16.289	35.227	25.856	0.556
160	15.329	35.150	26.015	0.577
170	14.596	35.072	26.116	0.597
180	13.942	35.008	26.206	0.616
190	13.784	34.988	26.224	0.634
200	13.470	34.960	26.267	0.653
205	13.356	34.949	26.282	0.662

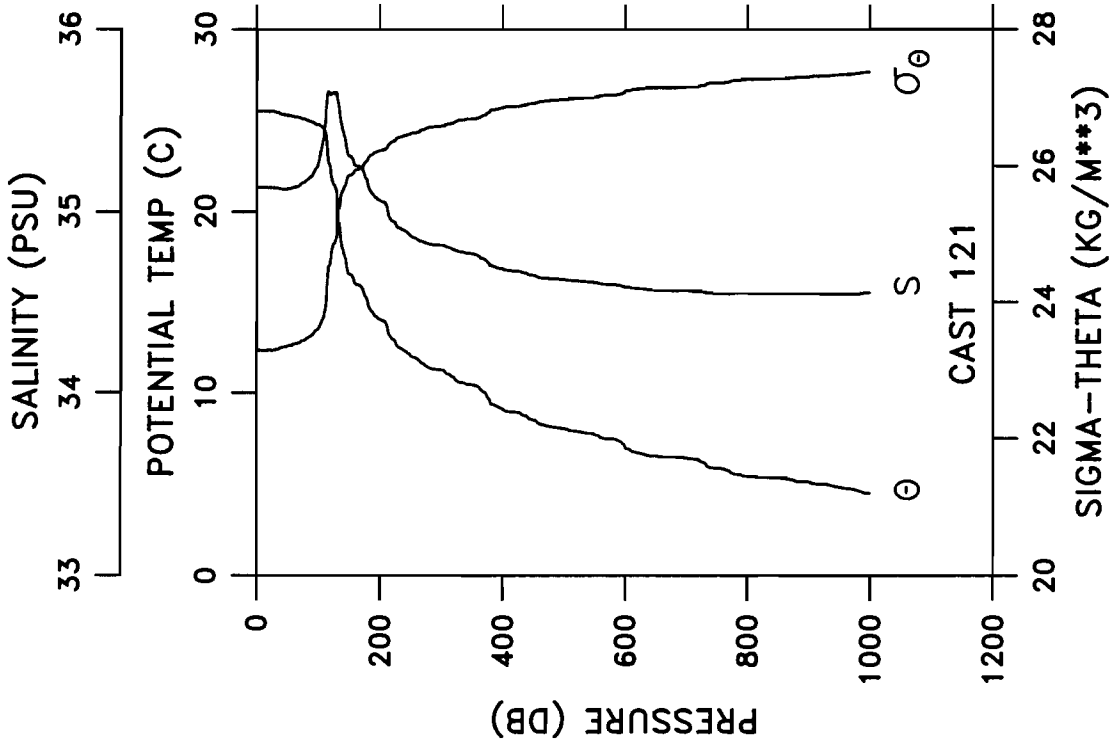


CAST GP7-99-KA-0111 DATE 28 OCT 99 TIME 0218 GMT
 LAT 00 29.4S LONG 155 00.3W WEATHER 1 SEA STATE 3
 BAROMETER 09 WIND DIR 070 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.6 WET 23.1 DEPTH 4840 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.332	35.080	23.302	0.000
10	25.332	35.078	23.301	0.046
20	25.148	35.074	23.354	0.091
30	25.093	35.072	23.370	0.136
40	24.937	35.069	23.415	0.181
50	24.699	35.070	23.487	0.226
60	24.565	35.070	23.528	0.270
70	24.403	35.078	23.582	0.313
80	24.207	35.087	23.647	0.356
90	23.803	35.118	23.791	0.399
100	23.263	35.170	23.988	0.439
110	22.893	35.314	24.204	0.478
120	21.760	35.639	24.772	0.512
130	19.356	35.562	25.360	0.542
140	17.124	35.329	25.738	0.567
150	16.374	35.269	25.869	0.589
160	15.363	35.182	26.032	0.610
170	15.102	35.154	26.069	0.630
180	14.669	35.110	26.130	0.650
190	14.395	35.080	26.166	0.669
200	13.900	35.024	26.228	0.688
250	12.267	34.877	26.443	0.775
300	11.461	34.830	26.559	0.855
350	10.175	34.740	26.719	0.927
400	9.066	34.679	26.857	0.993
450	8.336	34.637	26.938	1.054
500	8.085	34.626	26.968	1.113
550	7.756	34.611	27.005	1.171
600	7.480	34.600	27.036	1.228
650	6.812	34.577	27.112	1.282
700	6.486	34.566	27.147	1.333
750	5.983	34.557	27.205	1.383
800	5.630	34.551	27.244	1.430
900	5.223	34.548	27.291	1.521
1000	4.712	34.551	27.352	1.607
1003	4.700	34.551	27.354	1.609



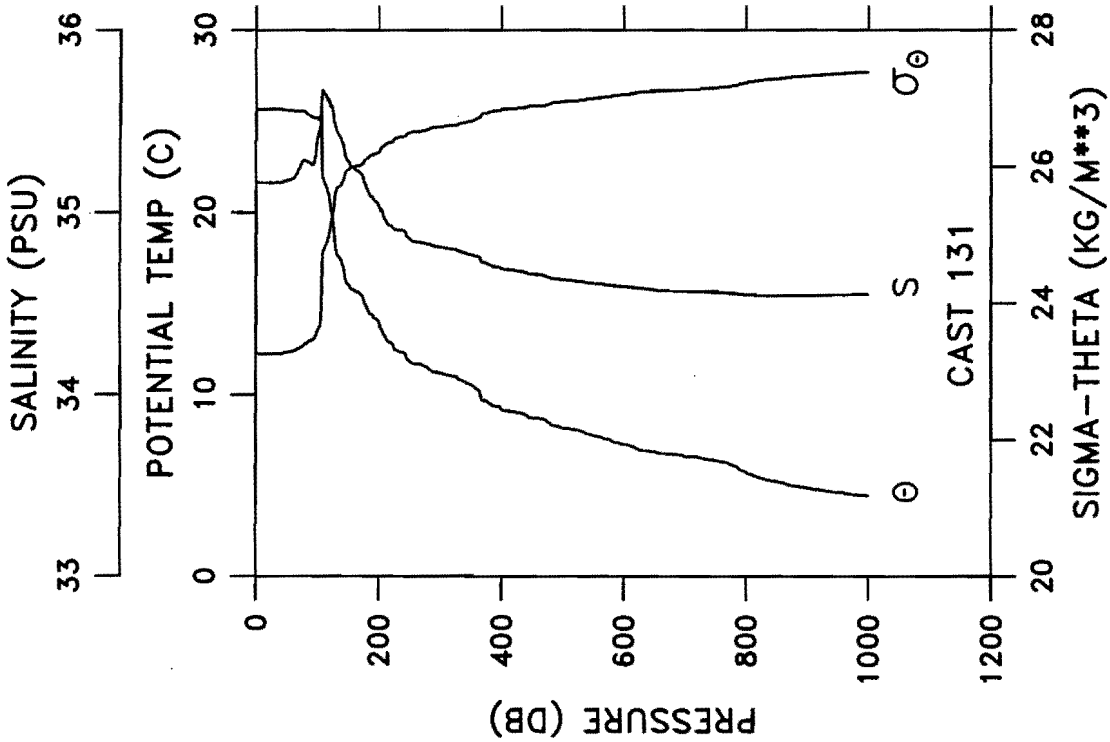
CAST GP7-99-KA-0121 DATE 28 OCT 99 TIME 0633 GMT
 LAT 00 59.2S LONG 154 59.3W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 068 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.5 WET 22.0 DEPTH 4696 M



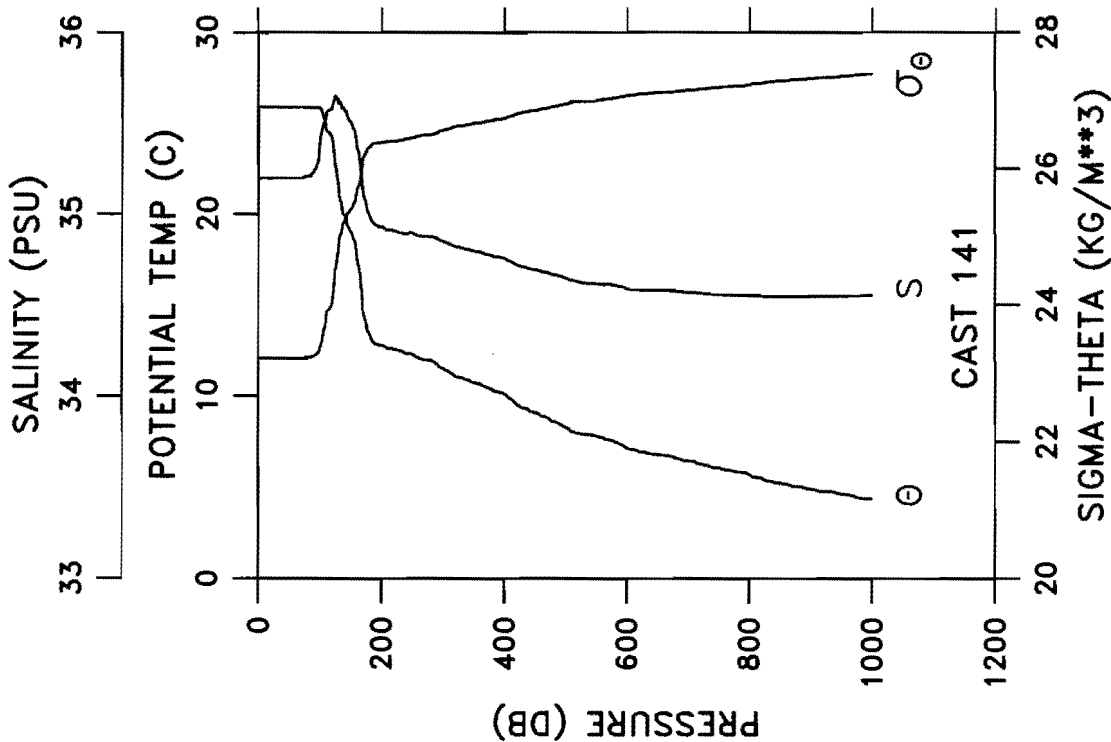
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.497	35.134	23.292	0.000
10	25.503	35.133	23.290	0.046
20	25.484	35.132	23.295	0.092
30	25.467	35.131	23.299	0.137
40	25.330	35.124	23.336	0.183
50	25.268	35.126	23.356	0.229
60	25.194	35.134	23.385	0.274
70	25.148	35.145	23.407	0.319
80	25.047	35.167	23.455	0.364
90	24.918	35.197	23.517	0.408
100	24.781	35.265	23.610	0.452
110	24.456	35.456	23.852	0.494
120	22.241	35.641	24.638	0.531
130	20.858	35.648	25.027	0.562
140	17.873	35.441	25.642	0.588
150	16.518	35.306	25.864	0.611
160	16.013	35.254	25.941	0.632
170	15.818	35.243	25.977	0.653
180	15.018	35.156	26.089	0.673
190	14.337	35.089	26.185	0.692
200	14.039	35.061	26.226	0.711
250	12.051	34.867	26.476	0.797
300	11.262	34.814	26.583	0.875
350	10.450	34.766	26.692	0.948
400	9.129	34.683	26.850	1.015
450	8.511	34.647	26.919	1.077
500	8.045	34.624	26.972	1.137
550	7.715	34.608	27.009	1.194
600	6.964	34.583	27.096	1.250
650	6.533	34.566	27.141	1.301
700	6.417	34.564	27.154	1.352
750	5.864	34.548	27.213	1.401
800	5.429	34.547	27.266	1.448
900	5.117	34.544	27.300	1.537
1000	4.491	34.552	27.378	1.621
1006	4.450	34.554	27.383	1.626

CAST GP7-99-KA-0131 DATE 28 OCT 99 TIME 1054 GMT
 LAT 01 29.6S LONG 154 57.6W WEATHER 1 SEA STATE 4
 BAROMETER 12 WIND DIR 077 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.4 WET 22.4 DEPTH 4830 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.672	35.167	23.263	0.000
10	25.671	35.164	23.261	0.046
20	25.677	35.164	23.259	0.092
30	25.679	35.164	23.259	0.138
40	25.678	35.164	23.259	0.185
50	25.611	35.178	23.290	0.231
60	25.599	35.186	23.300	0.277
70	25.580	35.239	23.346	0.323
80	25.511	35.284	23.401	0.368
90	25.273	35.265	23.460	0.413
100	25.193	35.410	23.594	0.457
110	21.793	35.660	24.779	0.496
120	20.587	35.601	25.065	0.527
130	17.913	35.464	25.650	0.554
140	17.112	35.383	25.783	0.577
150	16.017	35.283	25.963	0.598
160	15.699	35.239	26.001	0.619
170	15.501	35.216	26.028	0.639
180	14.780	35.133	26.124	0.659
190	14.342	35.078	26.176	0.678
200	13.956	35.031	26.221	0.697
250	11.833	34.852	26.507	0.781
300	11.201	34.809	26.591	0.859
350	10.578	34.768	26.671	0.933
400	9.198	34.690	26.844	1.000
450	8.734	34.661	26.895	1.063
500	8.172	34.630	26.958	1.124
550	7.758	34.609	27.003	1.183
600	7.264	34.591	27.060	1.239
650	6.841	34.574	27.105	1.292
700	6.579	34.566	27.135	1.345
750	6.370	34.560	27.157	1.396
800	5.723	34.548	27.230	1.445
900	4.866	34.544	27.329	1.533
1000	4.440	34.550	27.381	1.615
1004	4.415	34.549	27.384	1.618

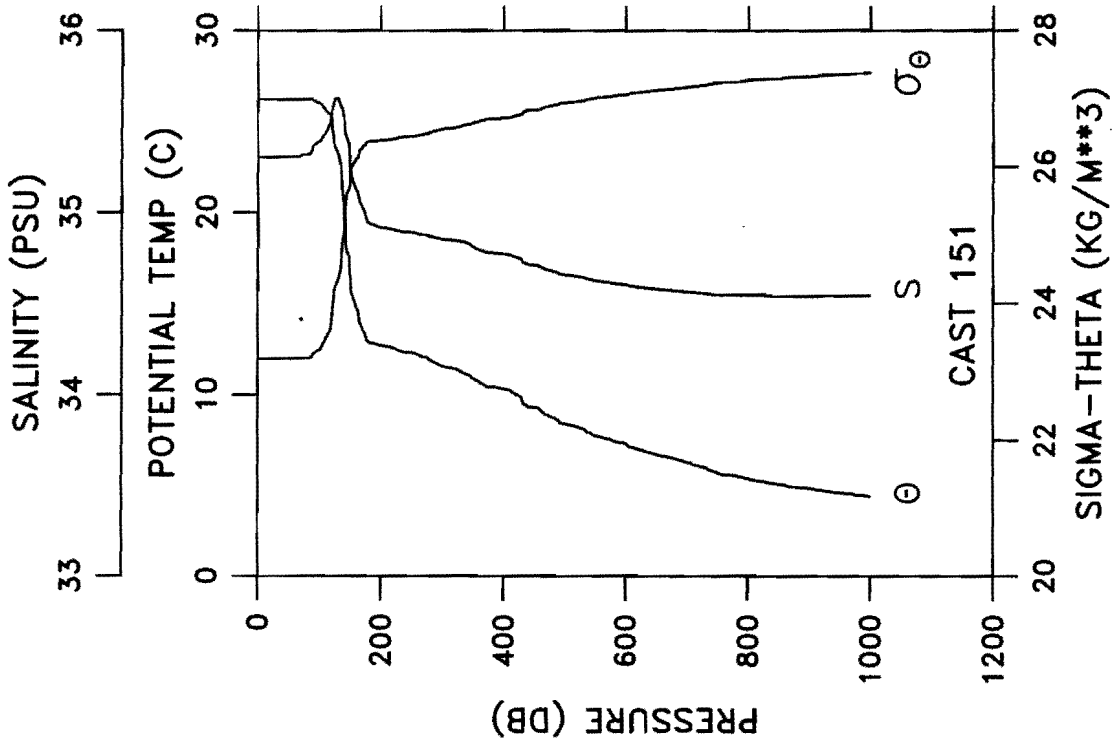


CAST GP7-99-KA-0141 DATE 28 OCT 99 TIME 1509 GMT
 LAT 02 00.25 LONG 154 56.8W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 080 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 25.4 WET 21.6 DEPTH 4940 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.893	35.199	23.219	0.000
10	25.895	35.199	23.218	0.046
20	25.901	35.199	23.216	0.093
30	25.904	35.199	23.215	0.140
40	25.897	35.199	23.218	0.186
50	25.898	35.199	23.217	0.233
60	25.896	35.200	23.218	0.280
70	25.896	35.200	23.219	0.326
80	25.884	35.209	23.229	0.373
90	25.875	35.228	23.246	0.420
100	25.837	35.399	23.387	0.466
110	24.673	35.541	23.851	0.510
120	24.101	35.592	24.061	0.550
130	21.435	35.608	24.839	0.585
140	19.891	35.570	25.227	0.614
150	19.021	35.506	25.404	0.641
160	17.547	35.365	25.664	0.666
170	14.541	35.118	26.164	0.688
180	13.357	34.993	26.316	0.706
190	12.839	34.939	26.378	0.723
200	12.782	34.931	26.383	0.740
250	12.265	34.896	26.458	0.823
300	11.513	34.849	26.564	0.902
350	10.726	34.795	26.666	0.977
400	10.129	34.755	26.739	1.048
450	9.105	34.692	26.860	1.114
500	8.290	34.646	26.952	1.176
550	7.797	34.615	27.002	1.234
600	7.138	34.587	27.074	1.290
650	6.776	34.580	27.119	1.343
700	6.435	34.568	27.155	1.394
750	6.056	34.557	27.196	1.443
800	5.710	34.550	27.234	1.491
900	4.920	34.546	27.324	1.580
1000	4.392	34.554	27.390	1.661
1002	4.380	34.554	27.391	1.663

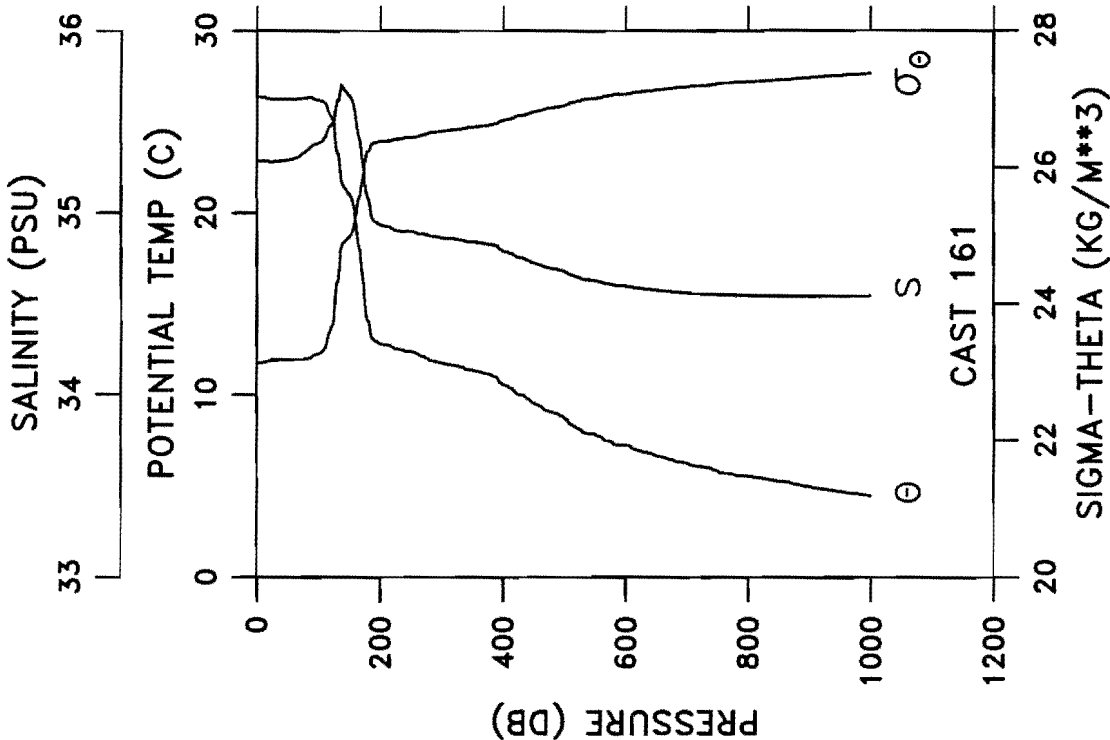
CAST GP7-99-KA-0151 DATE 28 OCT 99 TIME 1930 GMT
 LAT 02 29.35 LONG 154 57.1W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 080 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.4 WET 22.4 DEPTH 4888 M



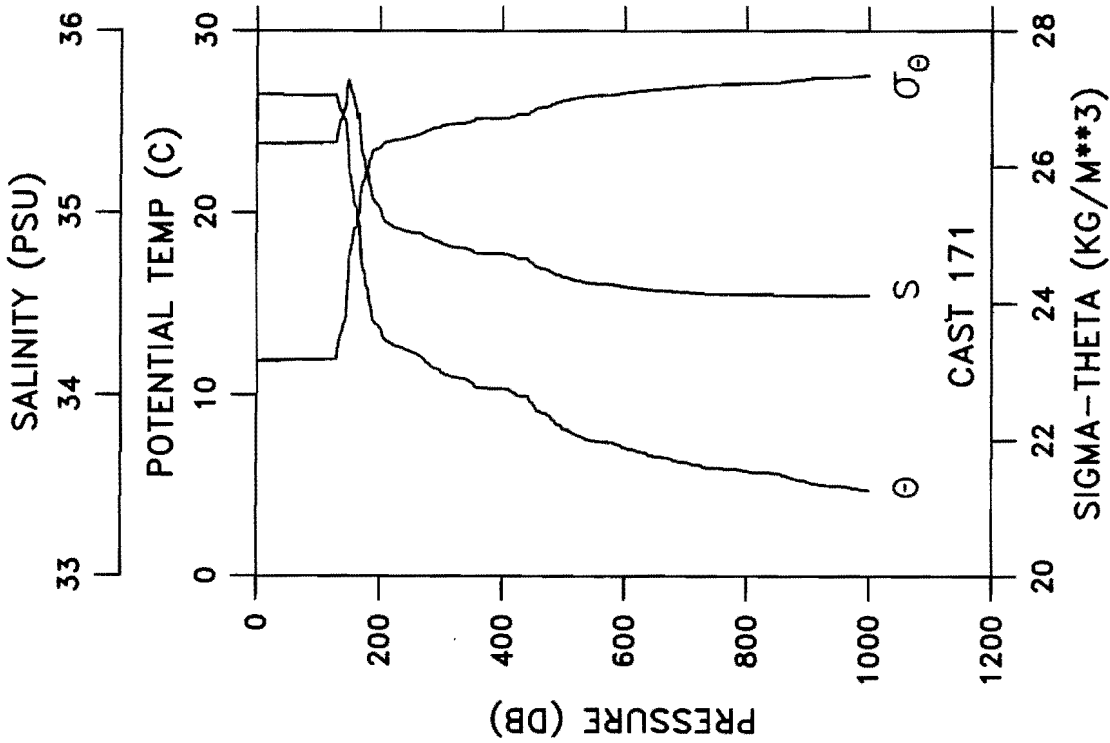
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.227	35.304	23.194	0.000
10	26.217	35.302	23.195	0.047
20	26.210	35.302	23.198	0.093
30	26.207	35.303	23.199	0.140
40	26.205	35.303	23.200	0.187
50	26.205	35.305	23.202	0.234
60	26.205	35.306	23.202	0.281
70	26.221	35.316	23.205	0.328
80	26.217	35.319	23.208	0.375
90	26.155	35.366	23.263	0.421
100	26.018	35.390	23.324	0.468
110	25.609	35.439	23.488	0.513
120	24.887	35.545	23.790	0.556
130	23.229	35.627	24.345	0.594
140	20.250	35.504	25.081	0.628
150	16.477	35.228	25.814	0.652
160	14.744	35.121	26.122	0.672
170	13.555	35.019	26.295	0.691
180	12.880	34.940	26.371	0.708
190	12.718	34.929	26.376	0.725
200	12.814	34.917	26.385	0.742
250	12.301	34.890	26.446	0.825
300	11.567	34.853	26.557	0.905
350	10.883	34.811	26.650	0.981
400	10.338	34.772	26.716	1.053
450	9.333	34.711	26.838	1.120
500	8.419	34.658	26.942	1.183
550	7.772	34.625	27.013	1.242
600	7.342	34.603	27.058	1.297
650	6.737	34.578	27.123	1.350
700	6.278	34.563	27.172	1.401
750	5.706	34.549	27.233	1.449
800	5.387	34.547	27.271	1.495
900	4.864	34.540	27.326	1.582
1000	4.401	34.545	27.382	1.664
1004	4.381	34.545	27.384	1.667

CAST GP7-99-KA-0161 DATE 29 OCT 99 TIME 0006 GMT
 LAT 02 59.55 LONG 154 57.9W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 078 T SPD 22 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.5 WET 23.6 DEPTH 4852 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.370	35.285	23.134	0.000
10	26.351	35.286	23.141	0.047
20	26.263	35.281	23.165	0.094
30	26.240	35.283	23.174	0.141
40	26.230	35.286	23.179	0.188
50	26.233	35.290	23.182	0.235
60	26.241	35.298	23.185	0.283
70	26.264	35.314	23.190	0.330
80	26.303	35.341	23.198	0.377
90	26.278	35.373	23.230	0.424
100	26.169	35.382	23.271	0.470
110	26.023	35.413	23.340	0.516
120	25.246	35.484	23.633	0.561
130	23.294	35.619	24.320	0.601
140	21.477	35.681	24.883	0.635
150	21.076	35.644	24.965	0.666
160	19.494	35.517	25.290	0.695
170	16.937	35.307	25.766	0.720
180	14.093	35.082	26.232	0.740
190	12.996	34.955	26.360	0.758
200	12.780	34.932	26.385	0.775
250	12.378	34.897	26.437	0.858
300	11.752	34.862	26.530	0.939
350	11.350	34.839	26.587	1.016
400	10.561	34.787	26.689	1.091
450	9.554	34.725	26.813	1.161
500	8.752	34.676	26.904	1.225
550	7.830	34.626	27.006	1.283
600	7.235	34.598	27.070	1.339
650	6.656	34.576	27.132	1.391
700	6.251	34.562	27.174	1.442
750	5.825	34.551	27.220	1.490
800	5.544	34.546	27.251	1.536
900	4.976	34.542	27.315	1.625
1000	4.441	34.546	27.378	1.708
1002	4.433	34.546	27.379	1.710

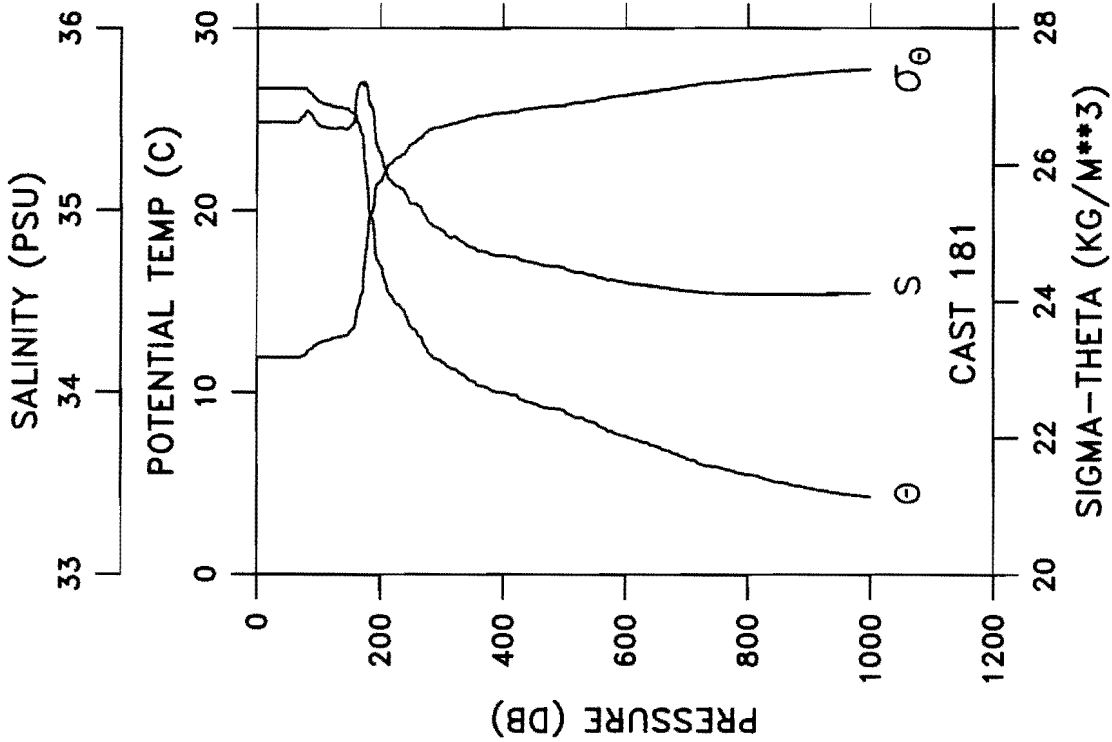


CAST GP7-99-KA-0171 DATE 29 OCT 99 TIME 0619 GMT
 LAT 03 51.9S LONG 155 02.2W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 076 T SPD 22 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 22.0 DEPTH 3683 M



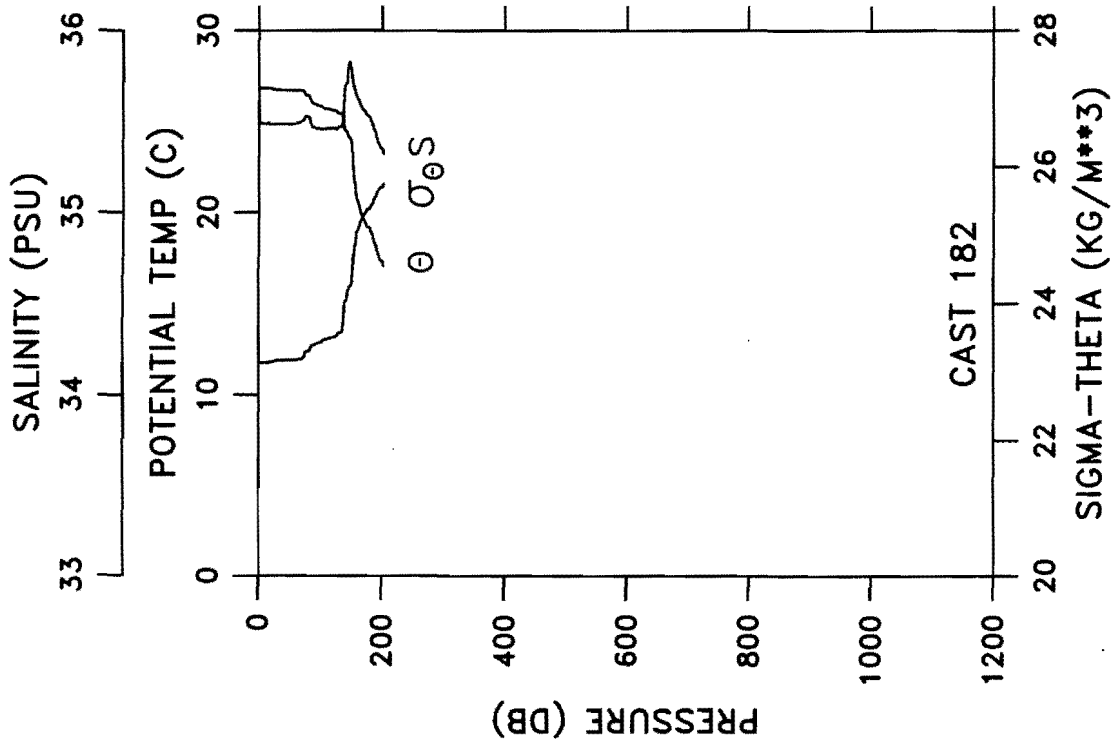
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.498	35.379	23.165	0.000
10	26.496	35.377	23.164	0.047
20	26.494	35.378	23.165	0.094
30	26.491	35.377	23.166	0.141
40	26.466	35.376	23.173	0.188
50	26.445	35.376	23.179	0.235
60	26.440	35.377	23.182	0.282
70	26.438	35.379	23.184	0.330
80	26.436	35.380	23.185	0.377
90	26.436	35.380	23.185	0.424
100	26.437	35.382	23.186	0.471
110	26.437	35.383	23.187	0.518
120	26.435	35.384	23.189	0.566
130	26.272	35.404	23.255	0.613
140	25.234	35.544	23.683	0.657
150	22.427	35.707	24.636	0.697
160	20.380	35.584	25.107	0.728
170	17.365	35.351	25.697	0.755
180	15.797	35.219	25.963	0.777
190	14.031	35.070	26.236	0.797
200	13.645	35.026	26.282	0.815
250	12.368	34.892	26.435	0.900
300	11.239	34.833	26.603	0.979
350	10.687	34.792	26.671	1.053
400	10.352	34.772	26.714	1.123
450	9.500	34.722	26.819	1.192
500	8.112	34.646	26.979	1.254
550	7.479	34.610	27.044	1.311
600	7.075	34.592	27.087	1.365
650	6.587	34.573	27.139	1.418
700	6.280	34.563	27.172	1.468
750	5.954	34.554	27.206	1.516
800	5.793	34.551	27.224	1.564
900	5.193	34.545	27.292	1.657
1000	4.719	34.544	27.346	1.743
1003	4.708	34.543	27.347	1.745

CAST GP7-99-KA-0181 DATE 29 OCT 99 TIME 1607 GMT
 LAT 05 00.1S LONG 155 01.1W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 077 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.2 WET 23.7 DEPTH 4244 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.701	35.487	23.182	0.000
10	26.696	35.487	23.183	0.047
20	26.705	35.486	23.180	0.094
30	26.707	35.488	23.181	0.141
40	26.702	35.486	23.181	0.188
50	26.700	35.486	23.182	0.235
60	26.712	35.486	23.182	0.282
70	26.684	35.500	23.188	0.329
80	26.684	35.543	23.229	0.376
90	26.376	35.521	23.311	0.422
100	25.989	35.469	23.393	0.468
110	25.854	35.457	23.426	0.513
120	25.787	35.454	23.444	0.558
130	25.684	35.451	23.474	0.602
140	25.612	35.452	23.496	0.647
150	25.475	35.459	23.545	0.691
160	25.266	35.607	23.720	0.735
170	24.205	35.707	24.117	0.775
180	21.062	35.634	24.961	0.810
190	18.969	35.497	25.410	0.838
200	16.983	35.319	25.762	0.861
250	13.581	35.038	26.304	0.962
300	11.683	34.894	26.568	1.043
350	10.622	34.798	26.686	1.118
400	9.988	34.751	26.760	1.187
450	9.384	34.713	26.831	1.254
500	8.998	34.686	26.873	1.318
550	8.324	34.642	26.944	1.380
600	7.625	34.606	27.020	1.438
650	7.048	34.583	27.084	1.493
700	6.377	34.559	27.156	1.546
750	5.907	34.548	27.208	1.594
800	5.497	34.541	27.253	1.641
900	4.759	34.541	27.339	1.728
1000	4.282	34.549	27.398	1.808
1500	2.747	34.608	27.595	2.142
2000	2.091	34.642	27.678	2.414
2500	1.746	34.661	27.720	2.663
3000	1.468	34.678	27.754	2.897
3500	1.261	34.686	27.776	3.122
4000	1.075	34.696	27.796	3.340
4003	1.073	34.695	27.796	3.341

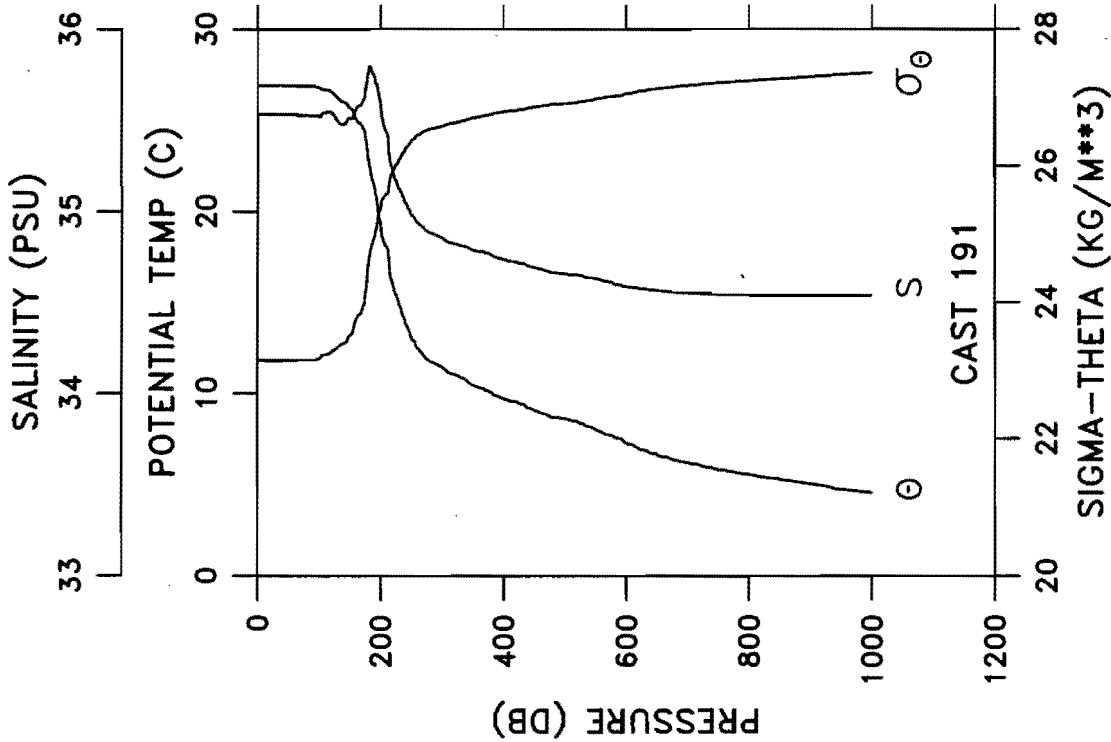
CAST GP7-99-KA-0182 DATE 30 OCT 99 TIME 0344 GMT
 LAT 04 59.7S LONG 154 59.8W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 078 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 29.0 WET 24.7 DEPTH 4950 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.825	35.489	23.144	0.000
10	26.828	35.487	23.142	0.047
20	26.803	35.487	23.149	0.094
30	26.719	35.485	23.175	0.142
40	26.713	35.485	23.177	0.189
50	26.706	35.486	23.179	0.236
60	26.700	35.488	23.183	0.283
70	26.683	35.500	23.197	0.330
80	26.416	35.524	23.300	0.376
90	25.950	35.463	23.400	0.422
100	25.825	35.457	23.435	0.467
110	25.677	35.458	23.481	0.511
120	25.585	35.460	23.511	0.556
130	25.403	35.468	23.574	0.600
140	24.462	35.695	24.031	0.642
150	23.893	35.789	24.272	0.680
160	20.636	35.625	25.070	0.713
170	19.625	35.560	25.289	0.741
180	19.108	35.519	25.391	0.768
190	18.093	35.420	25.572	0.793
200	17.331	35.348	25.703	0.817
202	17.067	35.318	25.743	0.822

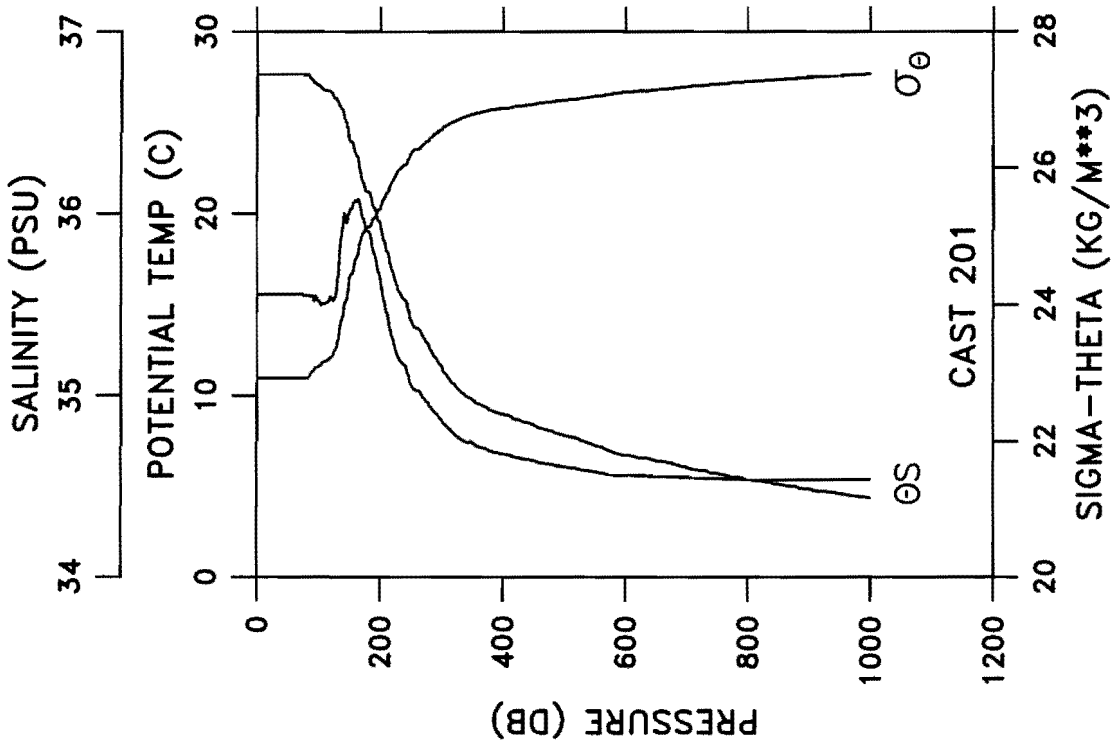
CAST GP7-99-KA-0191 DATE 30 OCT 99 TIME 1050 GMT
 LAT 05 59.7S LONG 154 59.6W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 077 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.6 WET 23.9 DEPTH 5181 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.915	35.532	23.148	0.000
10	26.918	35.533	23.148	0.047
20	26.925	35.533	23.145	0.094
30	26.924	35.533	23.146	0.142
40	26.922	35.533	23.146	0.189
50	26.923	35.533	23.146	0.236
60	26.894	35.529	23.152	0.284
70	26.875	35.527	23.157	0.331
80	26.871	35.527	23.158	0.379
90	26.863	35.526	23.160	0.426
100	26.788	35.522	23.181	0.473
110	26.672	35.543	23.233	0.520
120	26.539	35.541	23.274	0.567
130	26.212	35.494	23.342	0.613
140	26.004	35.481	23.397	0.659
150	25.681	35.511	23.520	0.704
160	25.031	35.565	23.760	0.747
170	24.654	35.603	23.904	0.789
180	22.796	35.778	24.584	0.827
190	21.274	35.726	24.973	0.859
200	19.218	35.564	25.397	0.887
250	12.975	34.983	26.385	0.992
300	11.412	34.854	26.587	1.071
350	10.451	34.788	26.709	1.144
400	9.707	34.735	26.795	1.213
450	9.066	34.692	26.866	1.278
500	8.593	34.656	26.913	1.340
550	8.010	34.629	26.981	1.401
600	7.244	34.586	27.059	1.457
650	6.625	34.565	27.127	1.510
700	6.184	34.552	27.176	1.561
750	5.785	34.545	27.220	1.609
800	5.529	34.541	27.249	1.656
900	5.038	34.537	27.304	1.745
1000	4.544	34.541	27.363	1.829
1002	4.534	34.542	27.365	1.831

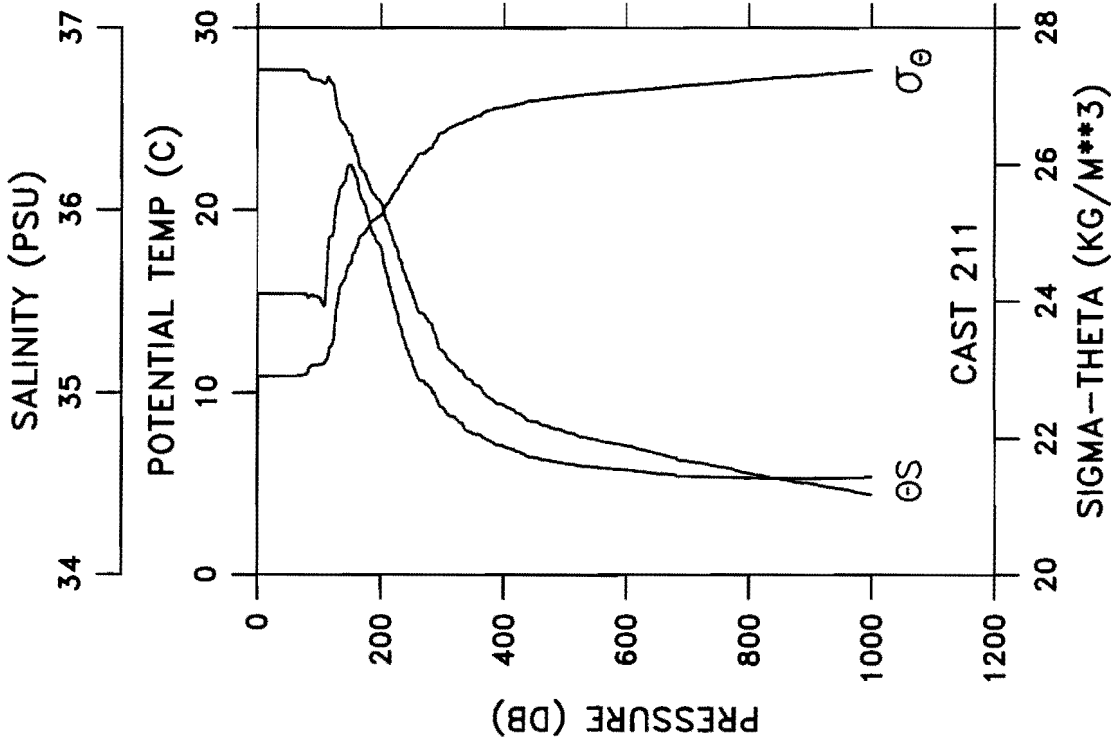


CAST GP7-99-KA-0201 DATE 30 OCT 99 TIME 1812 GMT
 LAT 06 59.6S LONG 155 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 073 T SPD 25 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 26.5 WET 23.0 DEPTH 5095 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.647	35.561	22.934	0.000
10	27.648	35.558	22.932	0.049
20	27.653	35.558	22.930	0.099
30	27.649	35.558	22.931	0.148
40	27.649	35.558	22.931	0.197
50	27.649	35.558	22.931	0.247
60	27.648	35.558	22.932	0.296
70	27.648	35.558	22.932	0.346
80	27.600	35.552	22.942	0.395
90	27.327	35.547	23.027	0.444
100	27.033	35.522	23.102	0.493
110	26.775	35.507	23.174	0.540
120	26.654	35.540	23.237	0.588
130	26.183	35.642	23.463	0.634
140	25.612	35.957	23.878	0.676
150	24.013	36.013	24.406	0.715
160	23.281	36.071	24.666	0.750
170	21.847	35.988	25.014	0.782
180	21.188	35.903	25.131	0.811
190	20.311	35.778	25.274	0.839
200	19.370	35.626	25.406	0.866
250	14.131	35.064	26.209	0.977
300	11.618	34.867	26.558	1.063
350	9.795	34.741	26.785	1.134
400	8.985	34.681	26.871	1.198
450	8.404	34.641	26.931	1.259
500	7.821	34.608	26.993	1.318
550	7.293	34.582	27.049	1.374
600	6.744	34.563	27.110	1.428
650	6.435	34.557	27.146	1.479
700	6.075	34.551	27.188	1.529
750	5.740	34.545	27.226	1.576
800	5.395	34.540	27.264	1.622
900	4.868	34.537	27.323	1.710
1000	4.398	34.542	27.380	1.792
1004	4.385	34.542	27.381	1.795



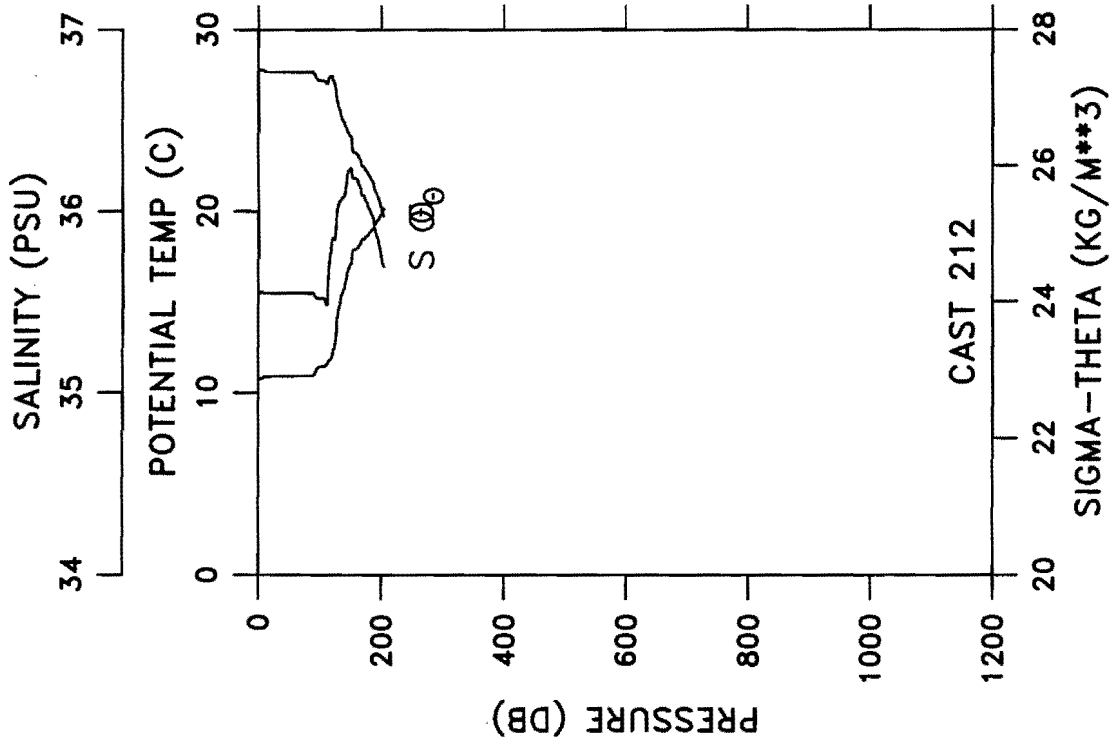
CAST GP7-99-KA-0211 DATE 31 OCT 99 TIME 0834 GMT
 LAT 08 17.6S LONG 155 04.6W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 056 T SPD 08 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.4 WET 23.0 DEPTH 5278 M



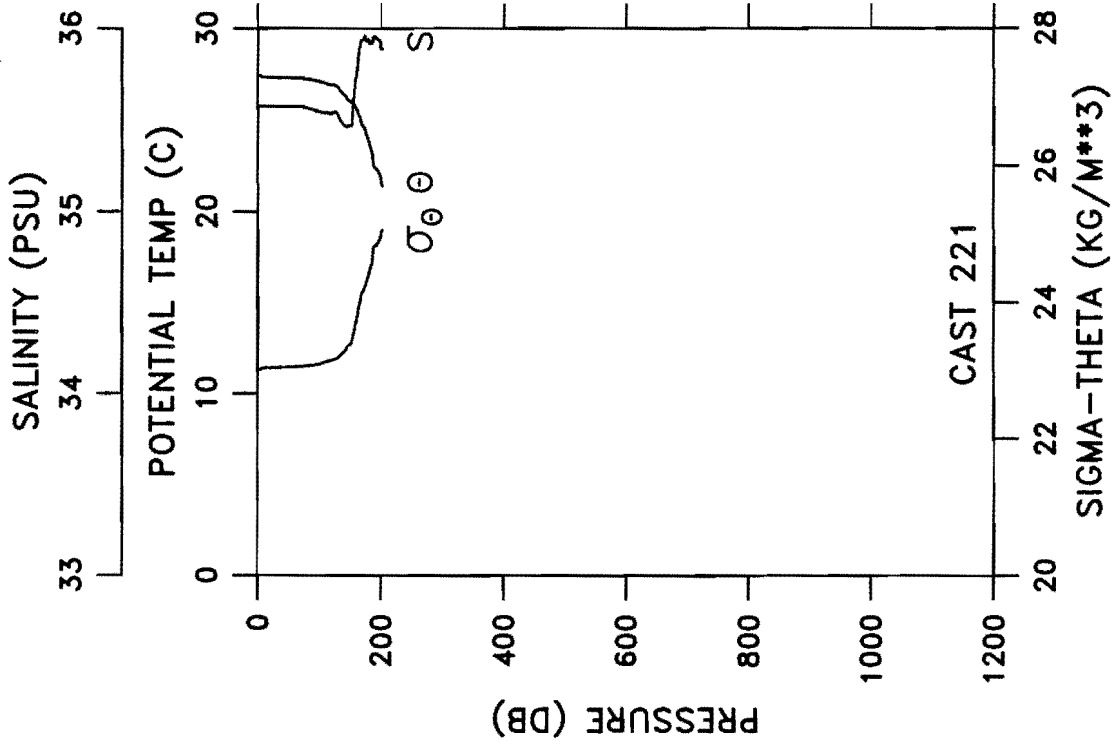
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.684	35.544	22.909	0.000
10	27.684	35.542	22.908	0.049
20	27.682	35.543	22.909	0.099
30	27.684	35.543	22.908	0.148
40	27.682	35.544	22.909	0.198
50	27.668	35.543	22.913	0.248
60	27.676	35.543	22.911	0.297
70	27.671	35.542	22.912	0.347
80	27.546	35.532	22.945	0.397
90	27.164	35.532	23.068	0.445
100	27.112	35.521	23.076	0.494
110	26.984	35.518	23.115	0.542
120	27.001	35.856	23.364	0.589
130	25.475	36.088	23.997	0.632
140	24.705	36.151	24.303	0.669
150	24.161	36.247	24.539	0.705
160	23.177	36.183	24.781	0.738
170	22.179	36.054	24.970	0.770
180	21.468	35.952	25.092	0.800
190	20.841	35.856	25.191	0.828
200	20.397	35.796	25.265	0.856
250	15.586	35.184	25.984	0.978
300	12.308	34.920	26.468	1.071
350	10.508	34.776	26.690	1.147
400	9.352	34.705	26.830	1.214
450	8.423	34.646	26.932	1.276
500	7.873	34.614	26.989	1.335
550	7.465	34.594	27.034	1.391
600	7.106	34.578	27.071	1.446
650	6.690	34.557	27.113	1.499
700	6.264	34.543	27.158	1.550
750	5.952	34.539	27.194	1.600
800	5.597	34.534	27.235	1.648
900	5.041	34.530	27.298	1.738
1000	4.412	34.539	27.375	1.821
1500	2.837	34.596	27.578	2.171
2000	2.058	34.641	27.679	2.449
2500	1.665	34.668	27.731	2.693
3000	1.441	34.680	27.758	2.922
3500	1.254	34.688	27.777	3.144
4000	1.083	34.696	27.795	3.362
4006	1.080	34.695	27.795	3.364

CAST GP7-99-KA-0212 DATE 31 OCT 99 TIME 2114 GMT
 LAT 08 15.55 LONG 155 00.7W WEATHER 1 SEA STATE 5
 BAROMETER 12 WIND DIR 070 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 28.8 WET 24.8 DEPTH 5271 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.790	35.550	22.879	0.000
10	27.716	35.550	22.903	0.050
20	27.689	35.549	22.911	0.089
30	27.674	35.548	22.916	0.149
40	27.675	35.548	22.915	0.198
50	27.672	35.548	22.916	0.248
60	27.669	35.548	22.917	0.297
70	27.664	35.548	22.918	0.347
80	27.654	35.547	22.921	0.397
90	27.631	35.543	22.926	0.446
100	27.196	35.519	23.048	0.495
110	27.056	35.488	23.070	0.544
120	27.440	35.848	23.217	0.592
130	25.761	36.034	23.890	0.636
140	24.871	36.086	24.203	0.675
150	24.094	36.239	24.553	0.711
160	23.156	36.175	24.782	0.744
170	22.449	36.086	24.917	0.775
180	21.937	36.012	25.006	0.806
190	21.080	35.887	25.149	0.836
200	20.114	35.735	25.293	0.864
204	19.717	35.691	25.365	0.875



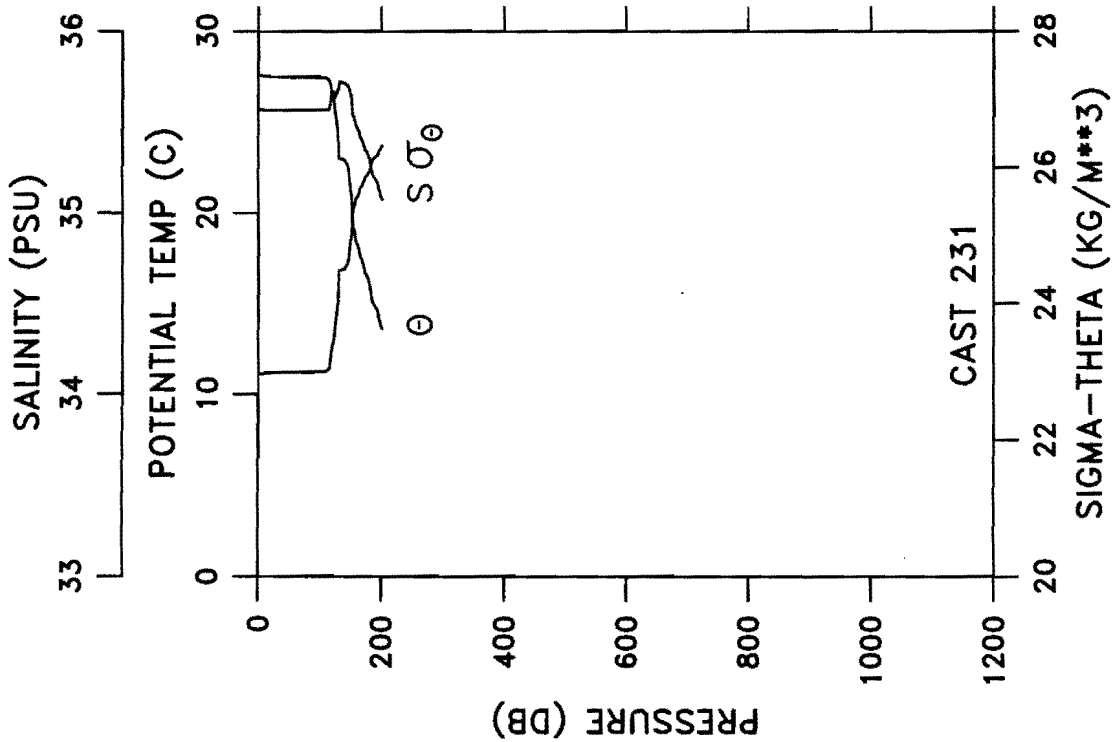
CAST GP7-99-KA-0221 DATE 01 NOV 99 TIME 2145 GMT
 LAT 06 22.9S LONG 158 28.5W WEATHER 1 SEA STATE 4
 BAROMETER 11 WIND DIR 091 T SPD 06 KT VISIBILITY 7
 CLOUD 0 AMOUNT 0 DRY 26.5 WET 23.6 DEPTH 5194 M



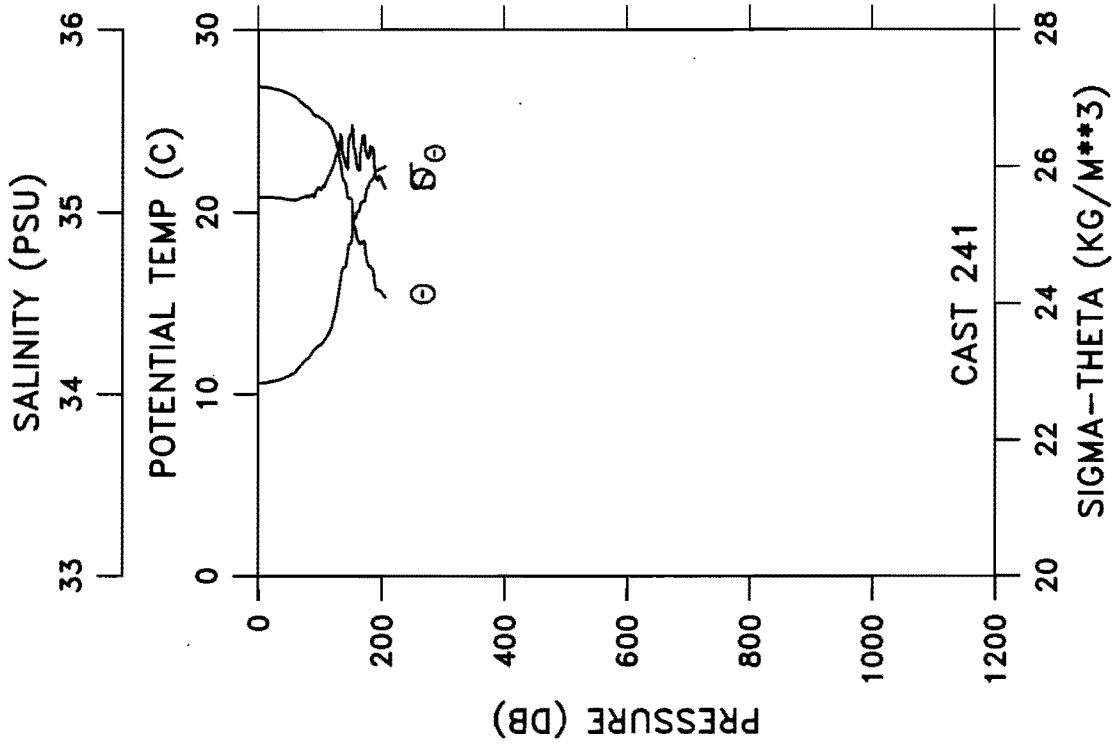
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.425	35.576	23.017	0.000
10	27.345	35.574	23.041	0.048
20	27.329	35.574	23.047	0.097
30	27.318	35.574	23.050	0.145
40	27.313	35.573	23.051	0.193
50	27.302	35.572	23.054	0.241
60	27.281	35.569	23.060	0.289
70	27.257	35.569	23.066	0.338
80	27.232	35.565	23.071	0.386
90	27.174	35.556	23.083	0.434
100	27.093	35.545	23.100	0.482
110	26.986	35.540	23.131	0.530
120	26.899	35.533	23.154	0.578
130	26.762	35.527	23.193	0.626
140	26.375	35.471	23.273	0.673
150	26.032	35.470	23.380	0.719
160	25.608	35.743	23.718	0.763
170	24.686	35.937	24.147	0.803
180	23.846	35.929	24.392	0.840
190	22.401	35.953	24.830	0.874
200	21.669	35.887	24.986	0.906
202	21.404	35.887	25.060	0.912

CAST GP7-99-KA-0231 DATE 03 NOV 99 TIME 2238 GMT
 LAT 02 15.5S LONG 165 48.7W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 088 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.8 WET 24.9 DEPTH 5795 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.563	35.570	22.967	0.000
10	27.547	35.567	22.971	0.049
20	27.522	35.567	22.979	0.098
30	27.500	35.566	22.985	0.147
40	27.489	35.566	22.989	0.195
50	27.485	35.566	22.990	0.244
60	27.483	35.566	22.991	0.293
70	27.484	35.567	22.991	0.342
80	27.481	35.566	22.992	0.391
90	27.479	35.566	22.992	0.440
100	27.472	35.566	22.994	0.489
110	27.437	35.564	23.005	0.538
120	26.459	35.653	23.384	0.586
130	23.969	35.679	24.166	0.629
140	22.880	35.714	24.512	0.664
150	21.208	35.652	24.935	0.698
160	18.283	35.472	25.565	0.724
170	17.127	35.383	25.779	0.748
180	16.113	35.300	25.953	0.770
190	14.786	35.185	26.160	0.789
200	13.666	35.082	26.321	0.808
201	13.623	35.071	26.322	0.810

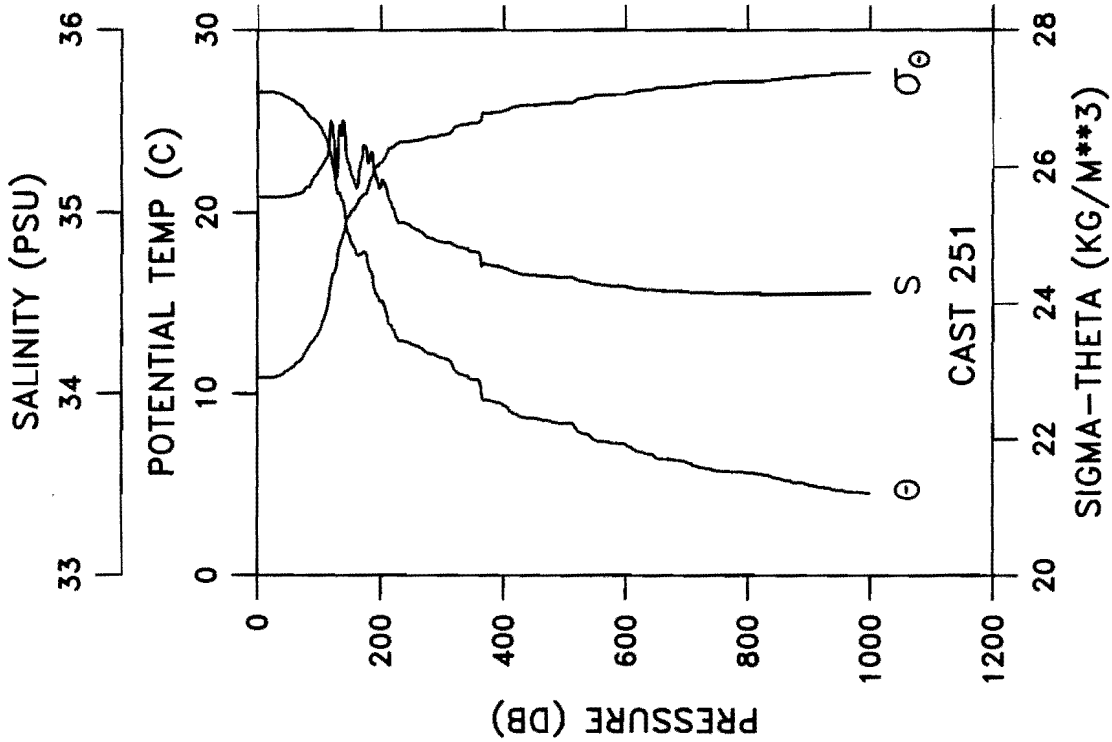


CAST GP7-99-KA-0241 DATE 05 NOV 99 TIME 0111 GMT
 LAT 00 00.9S LONG 169 44.9W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 081 T SPD 18 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 26.9 WET 24.3 DEPTH 5372 M



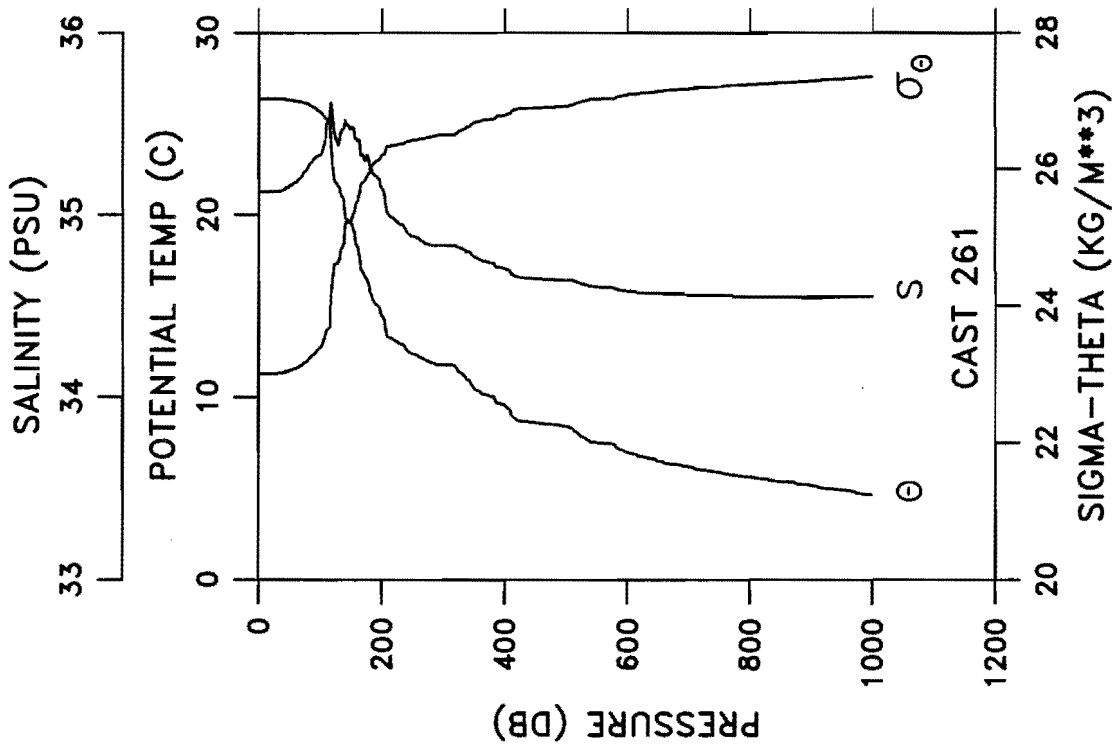
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.850	35.083	22.830	0.000
10	26.838	35.083	22.834	0.050
20	26.776	35.082	22.853	0.100
30	26.700	35.079	22.875	0.150
40	26.595	35.074	22.904	0.200
50	26.471	35.071	22.941	0.250
60	26.307	35.065	22.989	0.299
70	25.975	35.081	23.104	0.347
80	25.717	35.087	23.189	0.395
90	25.305	35.082	23.312	0.441
100	25.176	35.127	23.386	0.487
110	24.904	35.170	23.501	0.532
120	24.416	35.240	23.701	0.575
130	23.170	35.334	24.139	0.616
140	21.645	35.280	24.531	0.652
150	20.759	35.427	24.886	0.684
160	18.568	35.257	25.328	0.713
170	18.424	35.420	25.489	0.739
180	16.972	35.309	25.759	0.763
190	15.853	35.193	25.931	0.785
200	15.590	35.176	25.977	0.807
206	15.316	35.131	26.004	0.819

CAST GP7-99-KA-0251 DATE 05 NOV 99 TIME 1021 GMT
 LAT 00 02.6S LONG 170 01.7W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 071 T SPD 23 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.5 WET 24.5 DEPTH 5502 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.612	35.087	22.908	0.000
10	26.611	35.085	22.907	0.049
20	26.605	35.084	22.909	0.099
30	26.561	35.083	22.922	0.148
40	26.454	35.085	22.958	0.198
50	26.276	35.089	23.016	0.247
60	26.078	35.098	23.084	0.295
70	25.837	35.107	23.167	0.343
80	25.459	35.138	23.307	0.389
90	25.123	35.185	23.445	0.434
100	24.784	35.232	23.584	0.479
110	24.090	35.291	23.837	0.521
120	22.896	35.487	24.334	0.560
130	21.057	35.280	24.693	0.595
140	20.326	35.478	25.041	0.626
150	18.596	35.239	25.307	0.654
160	17.761	35.134	25.434	0.680
170	17.764	35.303	25.564	0.706
180	17.049	35.273	25.713	0.730
190	15.744	35.223	25.979	0.752
200	15.091	35.147	26.066	0.772
250	12.752	34.920	26.381	0.861
300	11.981	34.836	26.466	0.945
350	10.801	34.783	26.643	1.022
400	9.357	34.692	26.820	1.090
450	8.668	34.654	26.900	1.153
500	8.392	34.643	26.934	1.214
550	7.456	34.604	27.043	1.272
600	7.210	34.591	27.068	1.326
650	6.454	34.569	27.154	1.379
700	6.194	34.563	27.183	1.428
750	5.745	34.552	27.231	1.476
800	5.624	34.553	27.247	1.522
900	4.940	34.551	27.326	1.612
1000	4.509	34.557	27.379	1.694
1003	4.493	34.557	27.381	1.696

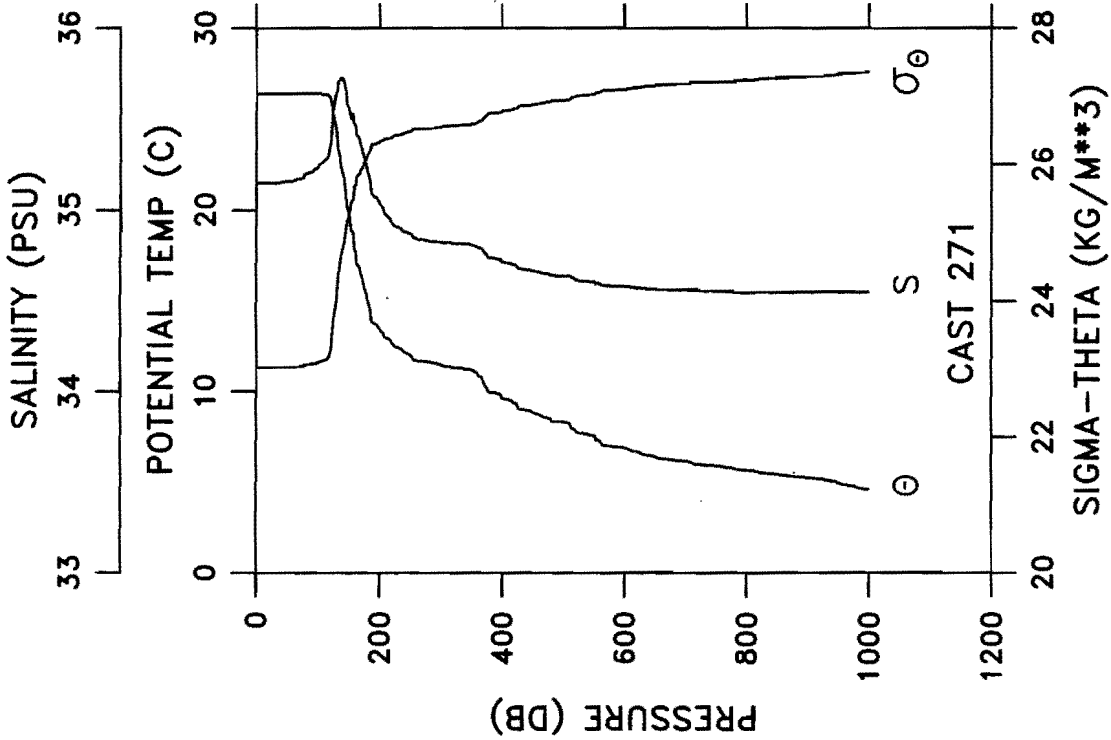
CAST GP7-99-KA-0261 DATE 05 NOV 99 TIME 1408 GMT
 LAT 00 30.1S LONG 170 01.4W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 070 T SPD 20 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 25.3 WET 23.8 DEPTH 5628 M



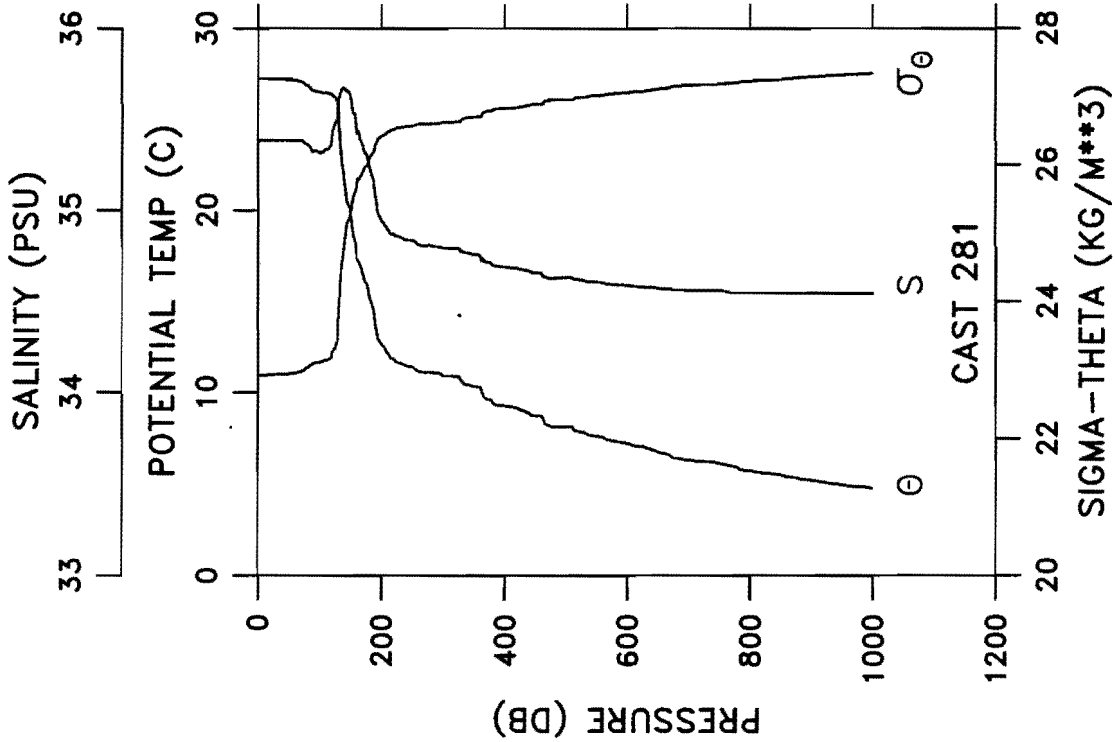
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.376	35.126	23.013	0.000
10	26.376	35.123	23.011	0.048
20	26.378	35.126	23.012	0.097
30	26.375	35.128	23.014	0.146
40	26.358	35.135	23.025	0.194
50	26.295	35.163	23.066	0.242
60	26.261	35.177	23.087	0.291
70	26.195	35.208	23.131	0.338
80	26.097	35.258	23.200	0.386
90	25.915	35.307	23.293	0.432
100	25.654	35.329	23.391	0.478
110	25.248	35.499	23.644	0.522
120	22.692	35.521	24.419	0.563
130	21.479	35.406	24.673	0.596
140	19.901	35.519	25.185	0.628
150	18.540	35.478	25.248	0.656
160	18.252	35.416	25.529	0.682
170	16.745	35.312	25.815	0.705
180	15.761	35.267	26.009	0.727
190	15.080	35.211	26.117	0.747
200	14.417	35.143	26.209	0.766
250	12.368	34.881	26.427	0.852
300	11.773	34.831	26.502	0.934
350	10.495	34.771	26.687	1.011
400	9.565	34.705	26.795	1.080
450	8.608	34.650	26.906	1.143
500	8.407	34.642	26.931	1.204
550	7.526	34.604	27.033	1.262
600	6.974	34.581	27.092	1.317
650	6.495	34.568	27.147	1.368
700	6.192	34.561	27.181	1.418
750	5.885	34.556	27.217	1.466
800	5.612	34.550	27.246	1.513
900	5.160	34.546	27.297	1.603
1000	4.655	34.552	27.360	1.688
1002	4.656	34.553	27.360	1.690

CAST GP7-99-KA-0271 DATE 05 NOV 99 TIME 1807 GMT
 LAT 00 59.9S LONG 170 01.1W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 055 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.4 WET 23.5 DEPTH 5731 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.389	35.149	23.026	0.000
10	26.392	35.147	23.024	0.048
20	26.386	35.147	23.025	0.097
30	26.384	35.147	23.026	0.145
40	26.394	35.153	23.027	0.194
50	26.396	35.156	23.029	0.242
60	26.395	35.158	23.031	0.291
70	26.395	35.169	23.039	0.339
80	26.387	35.198	23.063	0.388
90	26.384	35.207	23.071	0.436
100	26.372	35.234	23.095	0.484
110	26.345	35.269	23.130	0.532
120	26.127	35.354	23.263	0.580
130	24.394	35.645	24.014	0.622
140	22.018	35.727	24.766	0.657
150	19.873	35.559	25.223	0.687
160	17.758	35.468	25.691	0.713
170	16.423	35.349	25.920	0.735
180	15.069	35.215	26.123	0.756
190	13.782	35.079	26.294	0.774
200	13.457	35.039	26.331	0.792
250	12.027	34.872	26.485	0.875
300	11.486	34.822	26.548	0.954
350	11.233	34.808	26.584	1.031
400	9.647	34.715	26.789	1.102
450	8.876	34.664	26.875	1.167
500	8.344	34.637	26.937	1.228
550	7.582	34.605	27.026	1.286
600	6.907	34.579	27.100	1.339
650	6.421	34.564	27.154	1.390
700	6.151	34.560	27.186	1.439
750	5.902	34.553	27.212	1.487
800	5.660	34.546	27.236	1.534
900	5.242	34.547	27.288	1.625
1000	4.618	34.548	27.360	1.711
1007	4.611	34.547	27.361	1.717



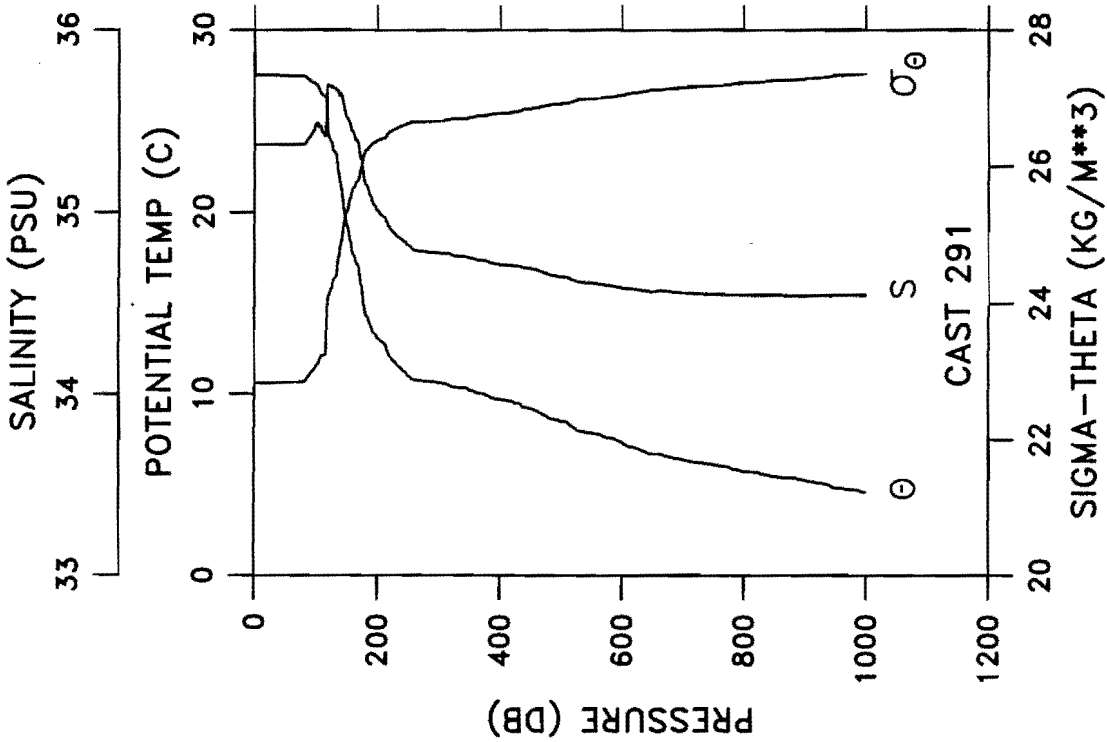
CAST GP7-99-KA-0281 DATE 05 NOV 99 TIME 2231 GMT
 LAT 01 29.8S LONG 170 02.1W WEATHER 1 SEA STATE 0
 BAROMETER 08 WIND DIR 053 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.2 WET 24.0 DEPTH 5457 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.272	35.385	22.922	0.000
10	27.279	35.386	22.921	0.049
20	27.232	35.385	22.935	0.099
30	27.228	35.385	22.937	0.148
40	27.222	35.386	22.939	0.197
50	27.207	35.387	22.945	0.247
60	27.169	35.387	22.957	0.296
70	27.086	35.382	22.981	0.345
80	26.866	35.362	23.035	0.394
90	26.583	35.324	23.097	0.442
100	26.513	35.316	23.112	0.490
110	26.462	35.334	23.143	0.538
120	26.317	35.427	23.258	0.585
130	25.032	35.572	23.765	0.631
140	21.415	35.670	24.891	0.667
150	19.746	35.618	25.302	0.696
160	17.413	35.420	25.738	0.721
170	16.489	35.351	25.906	0.743
180	15.285	35.241	26.095	0.763
190	13.690	35.072	26.309	0.782
200	12.636	34.941	26.421	0.799
250	11.411	34.834	26.572	0.877
300	10.930	34.792	26.627	0.952
350	10.348	34.759	26.704	1.025
400	9.289	34.688	26.828	1.092
450	8.750	34.657	26.890	1.156
500	8.164	34.631	26.960	1.216
550	7.641	34.607	27.019	1.273
600	7.238	34.590	27.063	1.329
650	6.763	34.574	27.116	1.382
700	6.312	34.563	27.167	1.433
750	6.119	34.560	27.190	1.483
800	5.724	34.545	27.228	1.531
900	5.188	34.546	27.293	1.622
1000	4.711	34.546	27.349	1.708
1002	4.697	34.546	27.350	1.710

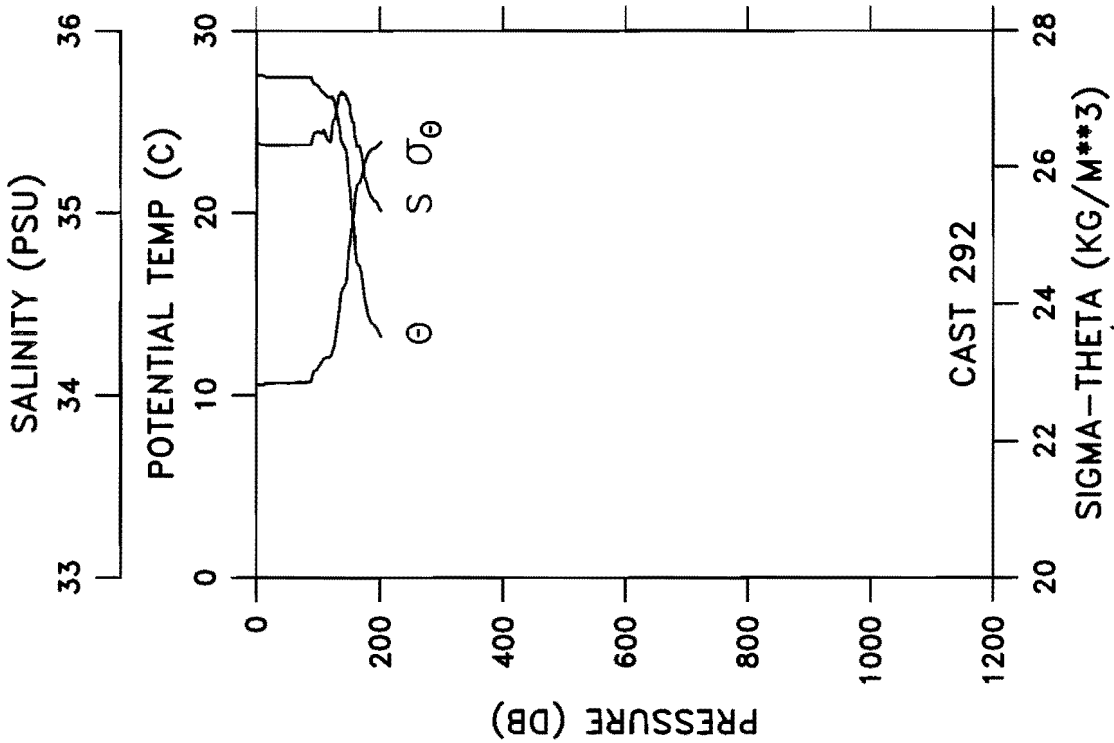
CAST GP7-99-KA-0291 DATE 06 NOV 99 TIME 0934 GMT
 LAT 02 11.9S LONG 170 05.8W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 085 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.3 WET 23.8 DEPTH 5118 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.528	35.372	22.831	0.000
10	27.526	35.371	22.830	0.050
20	27.526	35.371	22.831	0.100
30	27.517	35.372	22.833	0.151
40	27.506	35.371	22.837	0.201
50	27.478	35.371	22.846	0.251
60	27.474	35.371	22.847	0.302
70	27.471	35.371	22.848	0.352
80	27.463	35.371	22.851	0.402
90	27.213	35.414	22.963	0.452
100	27.014	35.486	23.081	0.501
110	26.406	35.438	23.239	0.549
120	24.181	35.698	24.117	0.593
130	23.286	35.678	24.367	0.630
140	21.489	35.653	24.858	0.664
150	19.303	35.520	25.342	0.693
160	17.677	35.440	25.689	0.718
170	16.802	35.350	25.831	0.741
180	14.414	35.154	26.219	0.762
190	13.675	35.075	26.314	0.780
200	13.091	35.007	26.380	0.797
250	11.025	34.817	26.629	0.875
300	10.647	34.775	26.664	0.948
350	10.236	34.749	26.716	1.019
400	9.724	34.713	26.775	1.088
450	9.218	34.690	26.841	1.154
500	8.518	34.645	26.916	1.217
550	7.863	34.612	26.990	1.276
600	7.340	34.584	27.044	1.333
650	6.714	34.564	27.115	1.387
700	6.388	34.557	27.153	1.438
750	6.134	34.550	27.180	1.488
800	5.744	34.545	27.226	1.537
900	5.260	34.540	27.280	1.629
1000	4.598	34.544	27.359	1.714
1500	2.824	34.604	27.585	2.065
2000	2.114	34.641	27.675	2.342
2500	1.722	34.660	27.721	2.589
3000	1.434	34.675	27.754	2.822
3500	1.242	34.686	27.776	3.044
4000	1.101	34.693	27.792	3.262
4004	1.101	34.693	27.792	3.263

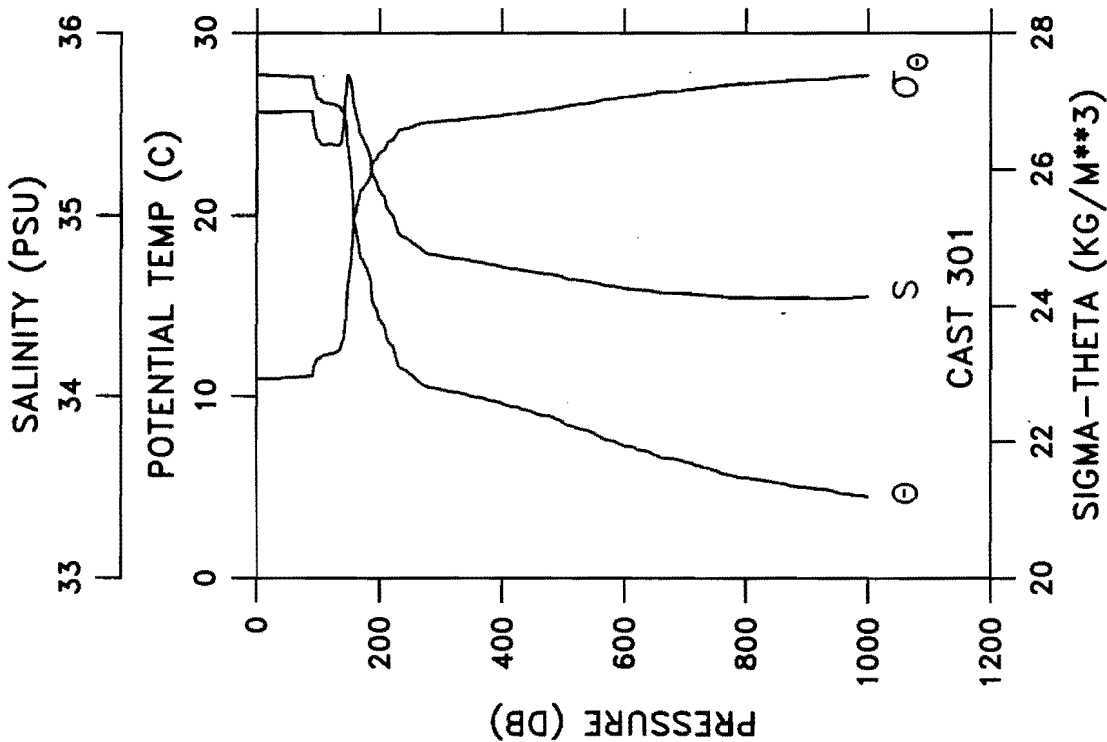


CAST GP7-99-KA-0292 DATE 07 NOV 99 TIME 0001 GMT
 LAT 02 09.7S LONG 170 02.4W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 099 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 28.0 WET 24.8 DEPTH 4906 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.566	35.377	22.822	0.000
10	27.551	35.372	22.823	0.050
20	27.482	35.371	22.844	0.100
30	27.465	35.371	22.850	0.151
40	27.461	35.371	22.851	0.201
50	27.459	35.372	22.852	0.251
60	27.456	35.372	22.853	0.301
70	27.455	35.372	22.854	0.351
80	27.453	35.372	22.855	0.402
90	27.300	35.393	22.920	0.452
100	26.939	35.447	23.076	0.501
110	26.543	35.446	23.201	0.548
120	26.313	35.389	23.231	0.595
130	25.402	35.581	23.659	0.641
140	23.726	35.658	24.222	0.681
150	21.460	35.601	24.827	0.716
160	17.918	35.412	25.609	0.745
170	16.828	35.319	25.848	0.768
180	14.520	35.129	26.177	0.788
190	13.838	35.062	26.270	0.806
200	13.266	35.013	26.350	0.824
202	13.202	35.014	26.364	0.827

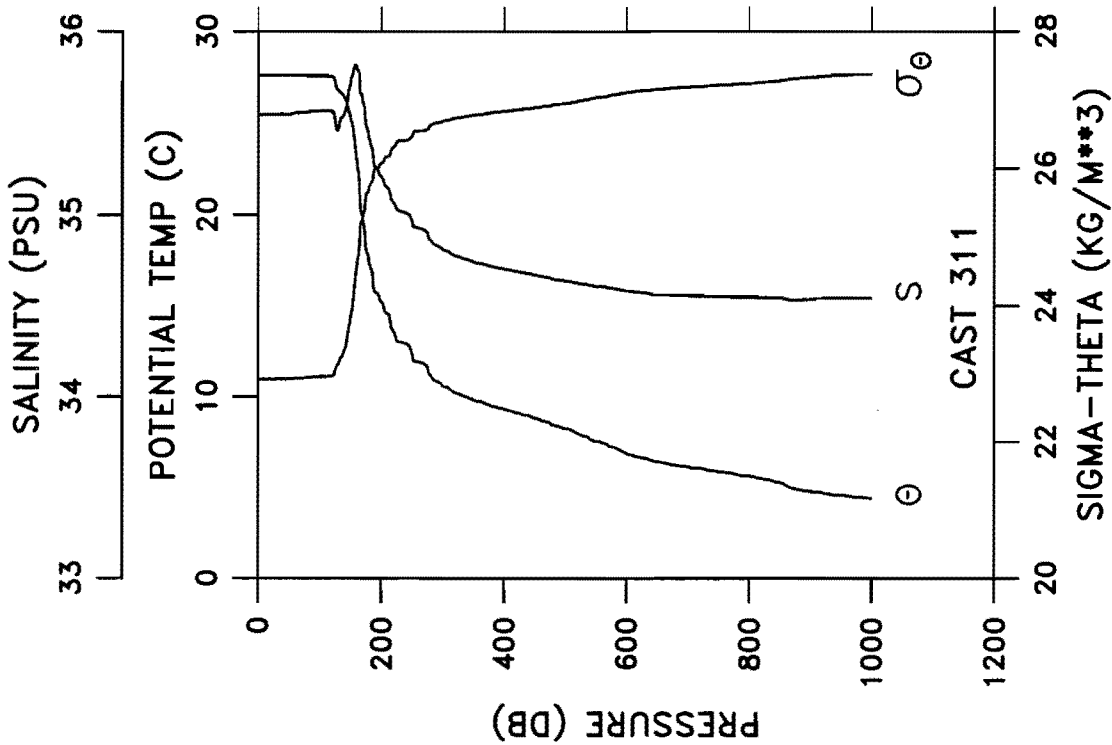


CAST GP7-99-KA-0301 DATE 07 NOV 99 TIME 0625 GMT
 LAT 03 00.0S LONG 170 01.5W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 073 T SPD 20 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.5 WET 24.0 DEPTH 5056 M



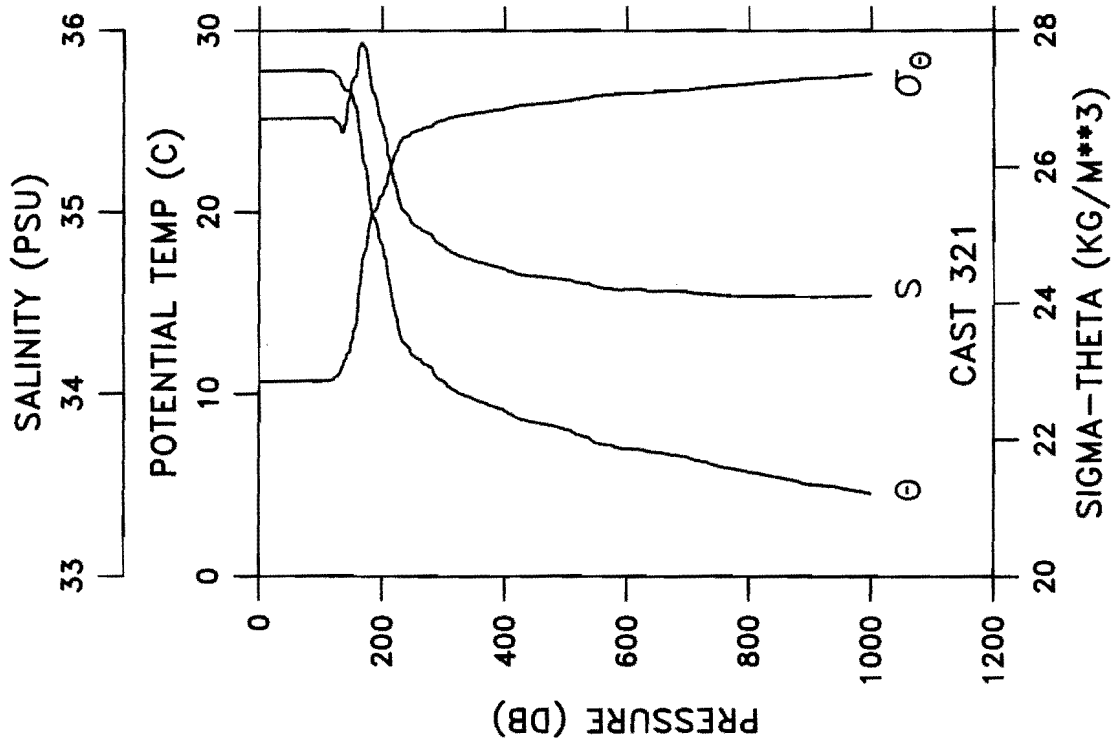
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.702	35.565	22.919	0.000
10	27.702	35.564	22.918	0.049
20	27.684	35.564	22.924	0.099
30	27.679	35.564	22.926	0.148
40	27.643	35.566	22.939	0.198
50	27.634	35.568	22.943	0.247
60	27.624	35.571	22.948	0.296
70	27.613	35.571	22.953	0.346
80	27.593	35.571	22.959	0.395
90	27.560	35.568	22.967	0.444
100	26.387	35.409	23.223	0.492
110	26.164	35.387	23.276	0.539
120	26.111	35.390	23.295	0.585
130	26.015	35.383	23.320	0.631
140	25.686	35.470	23.488	0.677
150	23.264	35.756	24.432	0.717
160	19.398	35.575	25.359	0.748
170	17.605	35.436	25.704	0.773
180	16.907	35.365	25.818	0.796
190	15.056	35.206	26.120	0.817
200	14.197	35.133	26.249	0.836
250	11.226	34.856	26.623	0.917
300	10.394	34.775	26.709	0.987
350	10.005	34.748	26.755	1.057
400	9.623	34.714	26.793	1.124
450	9.128	34.688	26.853	1.189
500	8.543	34.657	26.922	1.252
550	7.993	34.630	26.985	1.312
600	7.244	34.596	27.066	1.368
650	6.751	34.579	27.121	1.421
700	6.360	34.567	27.164	1.472
750	5.903	34.555	27.213	1.521
800	5.505	34.545	27.255	1.568
900	4.964	34.542	27.316	1.656
1000	4.463	34.552	27.380	1.739
1003	4.432	34.552	27.384	1.741

CAST GP7-99-KA-0311 DATE 07 NOV 99 TIME 1339 GMT
 LAT 04 00.0S LONG 170 01.0W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 090 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.3 WET 25.2 DEPTH 5663 M



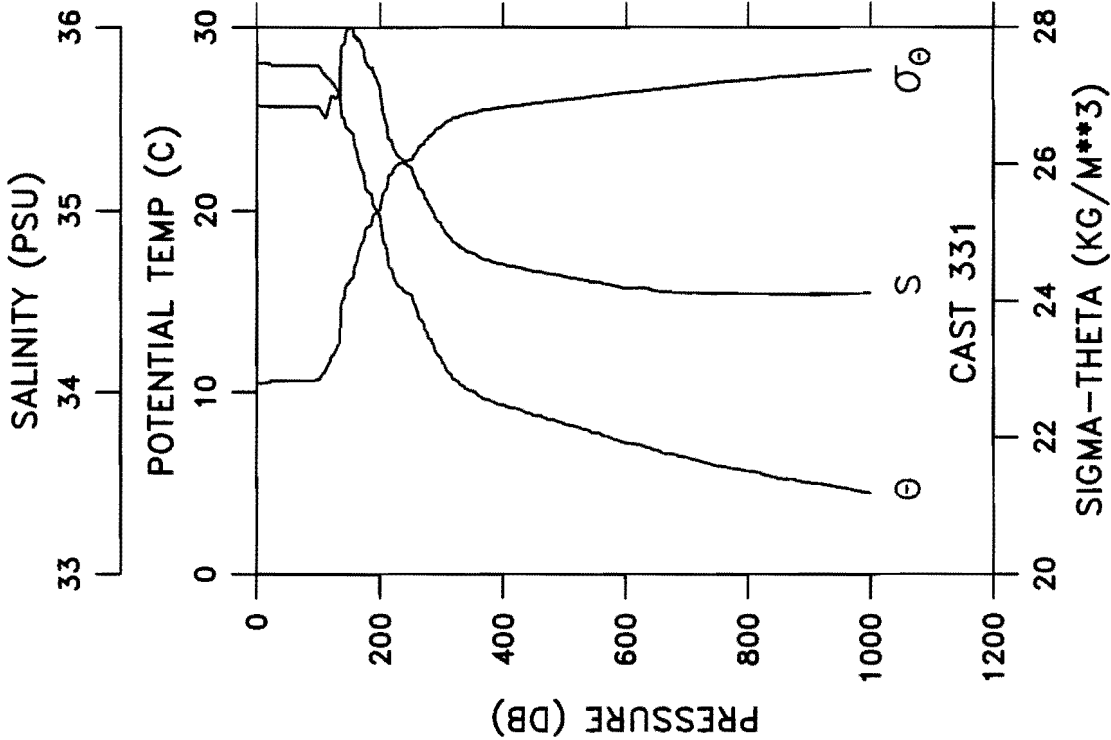
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.623	35.547	22.931	0.000
10	27.624	35.546	22.930	0.049
20	27.626	35.546	22.930	0.099
30	27.624	35.547	22.930	0.148
40	27.622	35.546	22.931	0.197
50	27.622	35.547	22.931	0.247
60	27.604	35.556	22.944	0.296
70	27.604	35.556	22.944	0.345
80	27.587	35.561	22.953	0.395
90	27.575	35.564	22.960	0.444
100	27.566	35.566	22.964	0.494
110	27.563	35.567	22.966	0.543
120	27.530	35.563	22.973	0.592
130	26.775	35.474	23.148	0.641
140	26.364	35.556	23.341	0.688
150	25.236	35.726	23.820	0.732
160	22.965	35.794	24.547	0.770
170	19.576	35.608	25.339	0.800
180	17.364	35.412	25.744	0.825
190	15.764	35.258	26.001	0.847
200	15.235	35.206	26.080	0.868
250	12.423	34.960	26.477	0.956
300	10.606	34.810	26.698	1.030
350	9.840	34.744	26.780	1.099
400	9.312	34.703	26.836	1.165
450	8.809	34.670	26.890	1.228
500	8.258	34.637	26.950	1.289
550	7.536	34.608	27.034	1.347
600	6.856	34.583	27.111	1.401
650	6.412	34.563	27.154	1.452
700	6.146	34.558	27.185	1.501
750	5.843	34.552	27.219	1.549
800	5.634	34.548	27.241	1.596
900	4.784	34.537	27.333	1.685
1000	4.410	34.545	27.381	1.766
1001	4.418	34.544	27.379	1.767

CAST GP7-99-KA-0321 DATE 07 NOV 99 TIME 2115 GMT
 LAT 05 00.4S LONG 170 00.5W WEATHER 1 SEA STATE 5
 BAROMETER 11 WIND DIR 076 T SPD 18 KT VISIBILITY 7
 CLOUD 1 AMOUNT 6 DRY 27.6 WET 24.5 DEPTH 5348 M



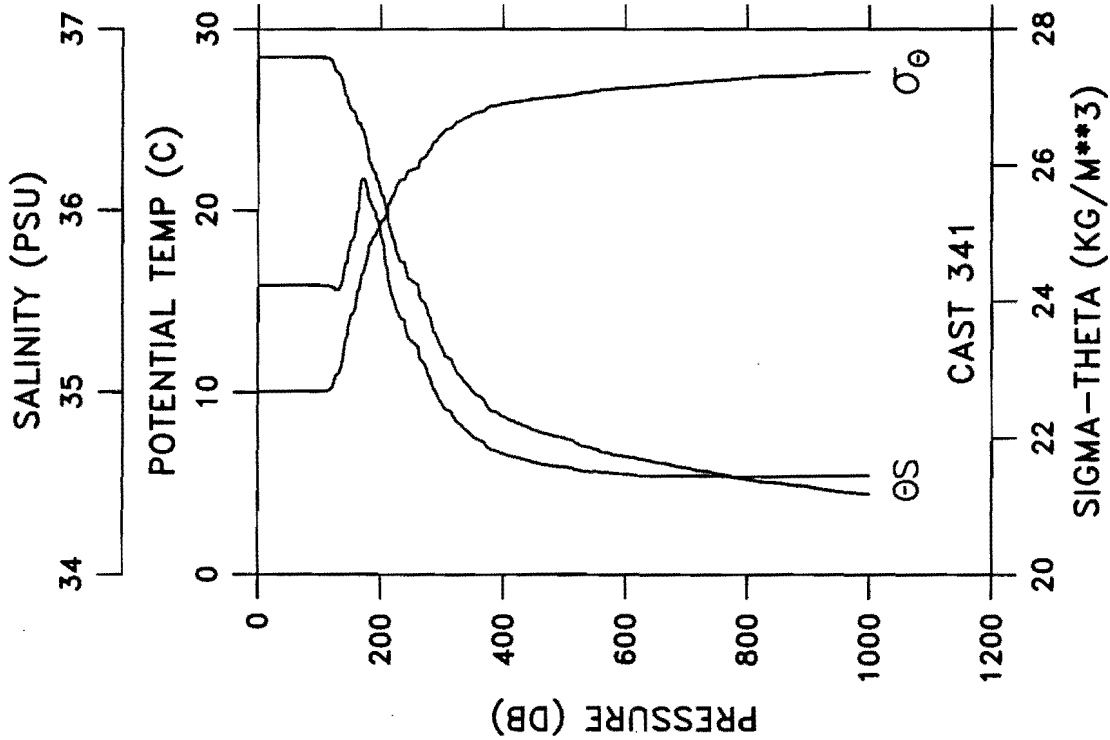
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.812	35.517	22.847	0.000
10	27.813	35.515	22.846	0.050
20	27.807	35.516	22.848	0.100
30	27.798	35.518	22.852	0.150
40	27.797	35.518	22.853	0.200
50	27.797	35.518	22.853	0.251
60	27.796	35.519	22.854	0.301
70	27.795	35.520	22.854	0.351
80	27.794	35.520	22.855	0.401
90	27.793	35.520	22.856	0.452
100	27.791	35.521	22.857	0.502
110	27.789	35.522	22.858	0.552
120	27.725	35.518	22.876	0.603
130	27.388	35.483	22.960	0.653
140	26.750	35.487	23.167	0.701
150	26.484	35.717	23.431	0.748
160	25.255	35.817	23.883	0.791
170	22.692	35.915	24.718	0.828
180	20.555	35.747	25.184	0.859
190	19.411	35.621	25.391	0.886
200	18.211	35.486	25.593	0.911
250	12.130	34.938	26.517	1.006
300	10.672	34.813	26.689	1.081
350	9.721	34.734	26.792	1.149
400	9.090	34.687	26.859	1.213
450	8.460	34.648	26.928	1.275
500	8.053	34.629	26.975	1.334
550	7.321	34.590	27.051	1.391
600	6.997	34.578	27.087	1.445
650	6.774	34.567	27.109	1.498
700	6.513	34.561	27.139	1.550
750	6.015	34.544	27.191	1.600
800	5.692	34.539	27.227	1.648
800	5.021	34.536	27.305	1.739
900	4.527	34.543	27.366	1.824
1002	4.520	34.543	27.367	1.825

CAST GP7-99-KA-0331 DATE 08 NOV 99 TIME 0456 GMT
 LAT 05 59.8S LONG 170 00.0W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 088 T SPD 18 KT VISIBILITY 7
 CLOUD 1 AMOUNT 3 DRY 29.6 WET 25.1 DEPTH 4764 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.067	35.574	22.806	0.000
10	28.064	35.569	22.804	0.050
20	28.027	35.568	22.815	0.101
30	27.966	35.567	22.834	0.151
40	27.956	35.567	22.837	0.202
50	27.946	35.567	22.841	0.252
60	27.940	35.567	22.843	0.302
70	27.936	35.567	22.844	0.353
80	27.933	35.567	22.845	0.403
90	27.927	35.566	22.847	0.453
100	27.891	35.560	22.854	0.504
110	27.424	35.509	22.967	0.554
120	27.054	35.622	23.171	0.602
130	26.577	35.618	23.320	0.649
140	25.019	35.908	24.023	0.692
150	24.367	35.993	24.285	0.730
160	23.393	35.948	24.540	0.766
170	22.177	35.903	24.856	0.799
180	21.007	35.790	25.095	0.829
190	20.204	35.743	25.276	0.858
200	19.565	35.635	25.362	0.885
250	15.372	35.235	26.072	0.995
300	11.740	34.910	26.569	1.082
350	10.095	34.766	26.753	1.153
400	9.335	34.705	26.833	1.219
450	8.726	34.665	26.898	1.282
500	8.267	34.637	26.948	1.343
550	7.764	34.608	27.001	1.402
600	7.198	34.572	27.054	1.458
650	6.801	34.558	27.098	1.512
700	6.390	34.547	27.144	1.564
750	5.936	34.543	27.200	1.613
800	5.644	34.543	27.236	1.661
900	5.004	34.536	27.307	1.751
1000	4.455	34.546	27.377	1.834
1007	4.403	34.547	27.383	1.840

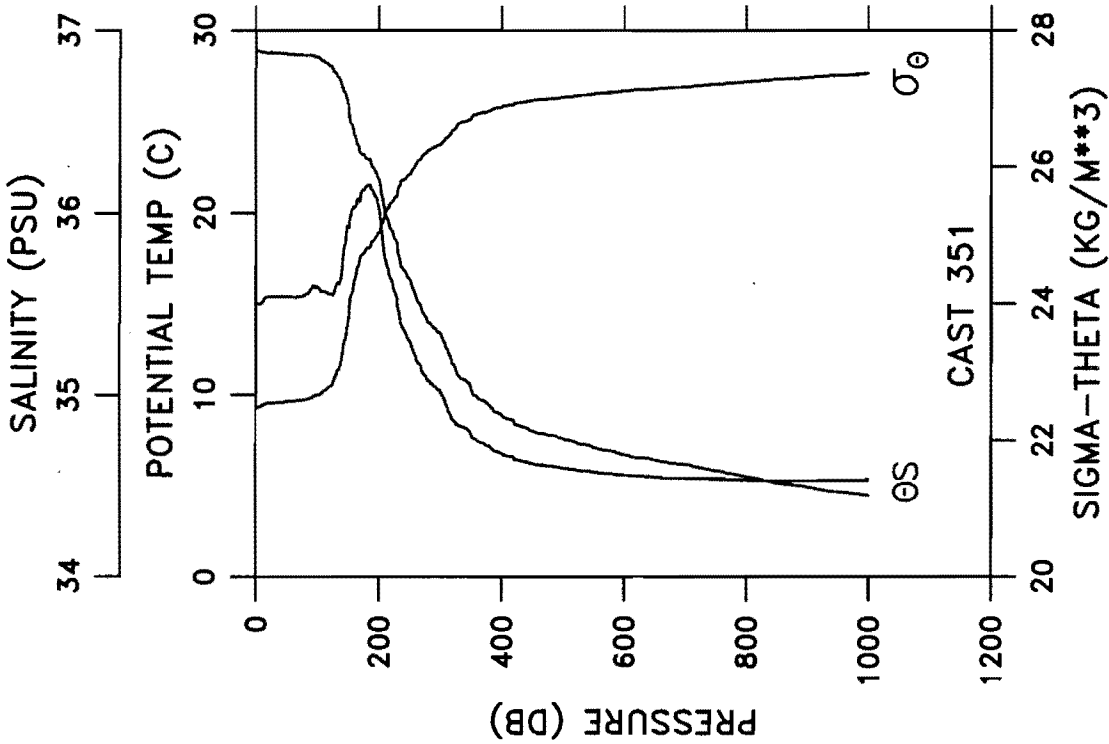
CAST GP7-99-KA-0341 DATE 08 NOV 99 TIME 1200 GMT
 LAT 06 59.9S LONG 170 00.1W WEATHER 1 SEA STATE 5
 BAROMETER 10 WIND DIR 078 T SPD 13 KT VISIBILITY 7
 CLOUD 1 AMOUNT 2 DRY 27.3 WET 24.5 DEPTH 4702 M



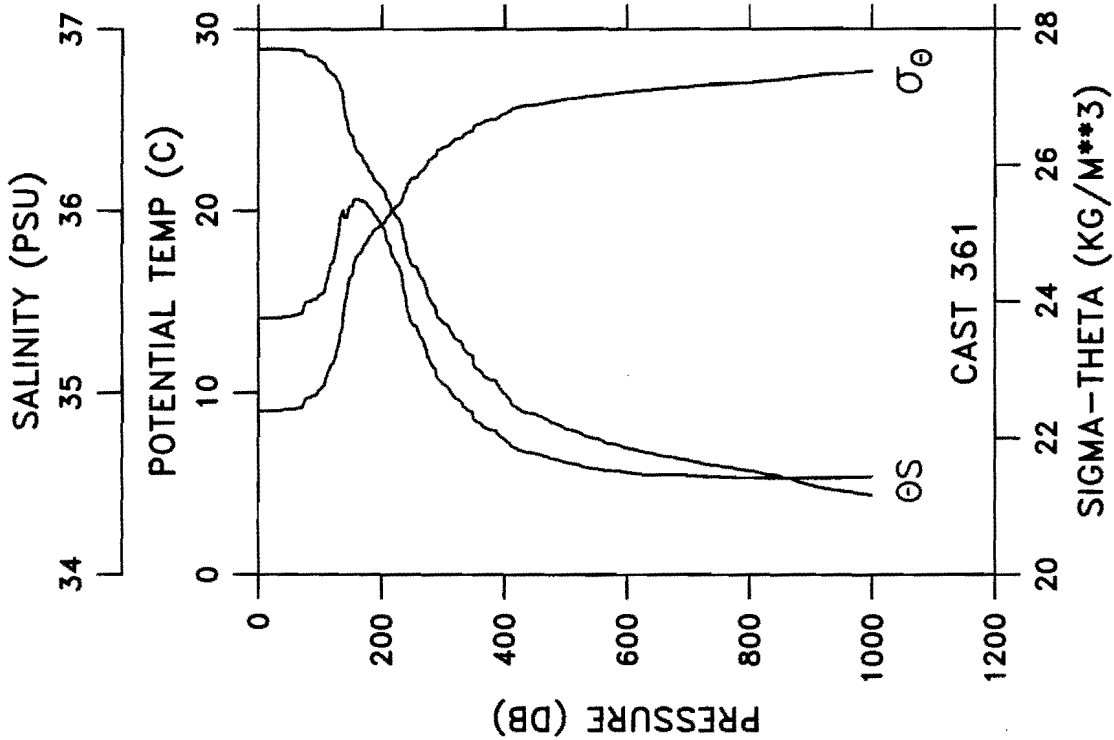
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.475	35.589	22.683	0.000
10	28.472	35.586	22.682	0.052
20	28.468	35.586	22.684	0.103
30	28.473	35.588	22.684	0.155
40	28.477	35.588	22.682	0.207
50	28.475	35.588	22.683	0.259
60	28.473	35.588	22.683	0.310
70	28.463	35.586	22.685	0.362
80	28.453	35.585	22.688	0.414
90	28.460	35.586	22.688	0.466
100	28.443	35.584	22.690	0.518
110	28.438	35.584	22.692	0.570
120	28.290	35.579	22.737	0.622
130	27.617	35.562	22.944	0.673
140	26.755	35.663	23.297	0.721
150	25.711	35.801	23.730	0.766
160	25.185	35.931	23.990	0.807
170	24.454	36.173	24.396	0.845
180	23.034	36.069	24.736	0.879
190	22.116	36.000	24.947	0.911
200	21.074	35.867	25.135	0.941
250	16.152	35.280	25.929	1.064
300	12.411	34.937	26.461	1.180
350	10.054	34.760	26.756	1.234
400	8.689	34.665	26.906	1.298
450	7.957	34.616	26.979	1.358
500	7.502	34.592	27.027	1.414
550	6.894	34.567	27.092	1.468
600	6.471	34.552	27.138	1.520
650	6.140	34.541	27.172	1.570
700	5.866	34.543	27.208	1.618
750	5.542	34.541	27.247	1.664
800	5.234	34.538	27.282	1.709
900	4.838	34.539	27.328	1.795
1000	4.430	34.545	27.379	1.877
1003	4.420	34.545	27.380	1.879

CAST GP7-99-KA-0351 DATE 08 NOV 99 TIME 2329 GMT
 LAT 07 57.6S LONG 169 56.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 066 T SPD 13 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 28.2 WET 25.2 DEPTH 5269 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.856	35.502	22.491	0.000
10	28.805	35.507	22.512	0.053
20	28.776	35.540	22.547	0.106
30	28.762	35.540	22.551	0.159
40	28.746	35.540	22.556	0.212
50	28.706	35.539	22.569	0.265
60	28.680	35.537	22.576	0.318
70	28.650	35.539	22.588	0.371
80	28.639	35.550	22.600	0.424
90	28.638	35.584	22.626	0.477
100	28.534	35.589	22.664	0.529
110	28.297	35.566	22.725	0.581
120	28.052	35.555	22.797	0.633
130	27.669	35.602	22.957	0.683
140	26.957	35.694	23.257	0.732
150	25.965	35.932	23.749	0.776
160	24.263	36.032	24.347	0.815
170	23.245	36.091	24.691	0.849
180	22.962	36.146	24.816	0.882
190	22.505	36.119	24.927	0.914
200	21.816	36.021	25.047	0.944
250	16.338	35.300	25.901	1.070
300	13.403	35.019	26.327	1.166
350	10.395	34.786	26.717	1.244
400	8.910	34.678	26.881	1.309
450	8.033	34.623	26.973	1.369
500	7.599	34.599	27.018	1.426
550	7.122	34.577	27.069	1.481
600	6.726	34.560	27.110	1.534
650	6.426	34.548	27.141	1.585
700	6.172	34.542	27.168	1.635
750	5.824	34.537	27.209	1.684
800	5.495	34.531	27.245	1.731
900	4.925	34.528	27.310	1.820
1000	4.469	34.536	27.368	1.903
1001	4.469	34.536	27.367	1.904

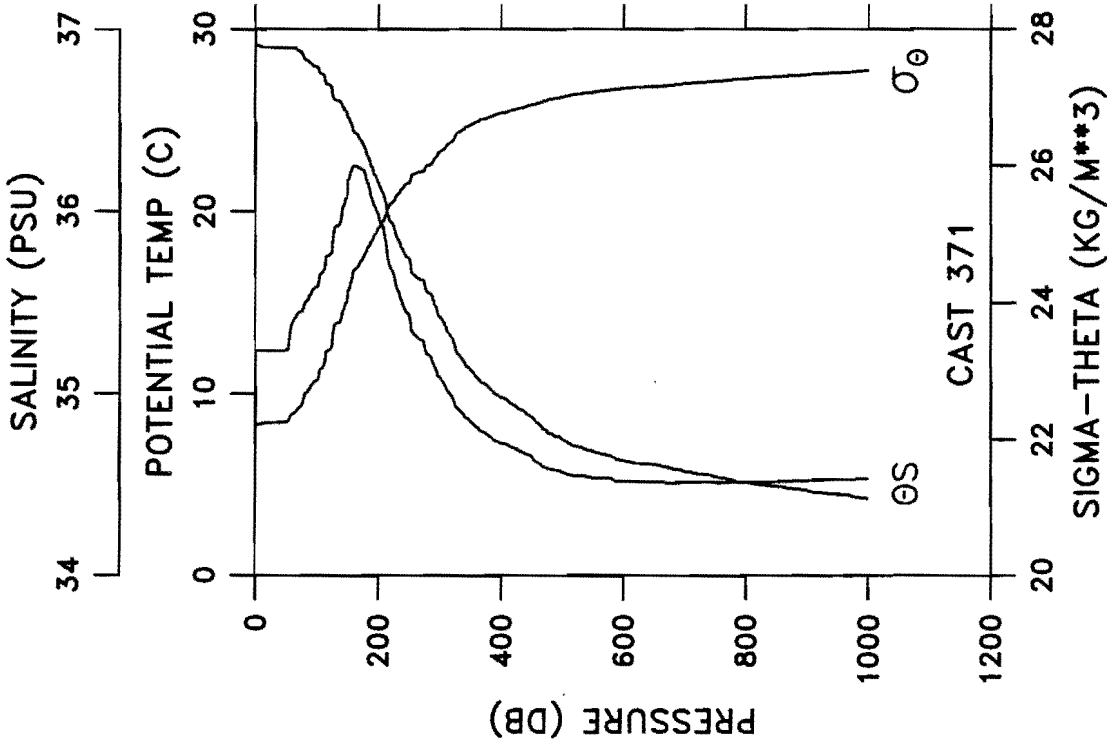


CST GP7-99-KA-0361 DATE 09 NOV 99 TIME 1214 GMT
 LAT 09 00.1S LONG 170 59.2W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 054 T SPD 02 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.6 WET 25.5 DEPTH 4418 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.914	35.413	22.405	0.000
10	28.915	35.410	22.403	0.054
20	28.911	35.411	22.405	0.109
30	28.908	35.412	22.406	0.163
40	28.887	35.415	22.416	0.217
50	28.866	35.418	22.425	0.272
60	28.862	35.427	22.433	0.326
70	28.830	35.433	22.449	0.380
80	28.546	35.499	22.593	0.434
90	28.468	35.512	22.628	0.486
100	28.256	35.538	22.717	0.538
110	27.880	35.601	22.888	0.590
120	27.518	35.712	23.089	0.639
130	27.040	35.875	23.366	0.686
140	25.388	35.957	23.947	0.729
150	24.168	36.024	24.368	0.767
160	23.259	36.061	24.665	0.802
170	22.783	36.052	24.796	0.835
180	22.164	36.017	24.946	0.866
190	21.640	35.969	25.057	0.897
200	21.274	35.918	25.119	0.926
250	16.993	35.380	25.808	1.057
300	13.849	35.046	26.255	1.160
350	11.482	34.855	26.575	1.246
400	9.976	34.745	26.758	1.319
450	8.839	34.667	26.883	1.384
500	8.013	34.617	26.971	1.444
550	7.502	34.583	27.019	1.502
600	6.961	34.561	27.079	1.556
650	6.575	34.550	27.123	1.609
700	6.296	34.544	27.155	1.660
750	5.991	34.537	27.188	1.710
800	5.714	34.533	27.220	1.758
900	4.929	34.531	27.311	1.849
1000	4.350	34.538	27.381	1.932
1001	4.346	34.538	27.382	1.932

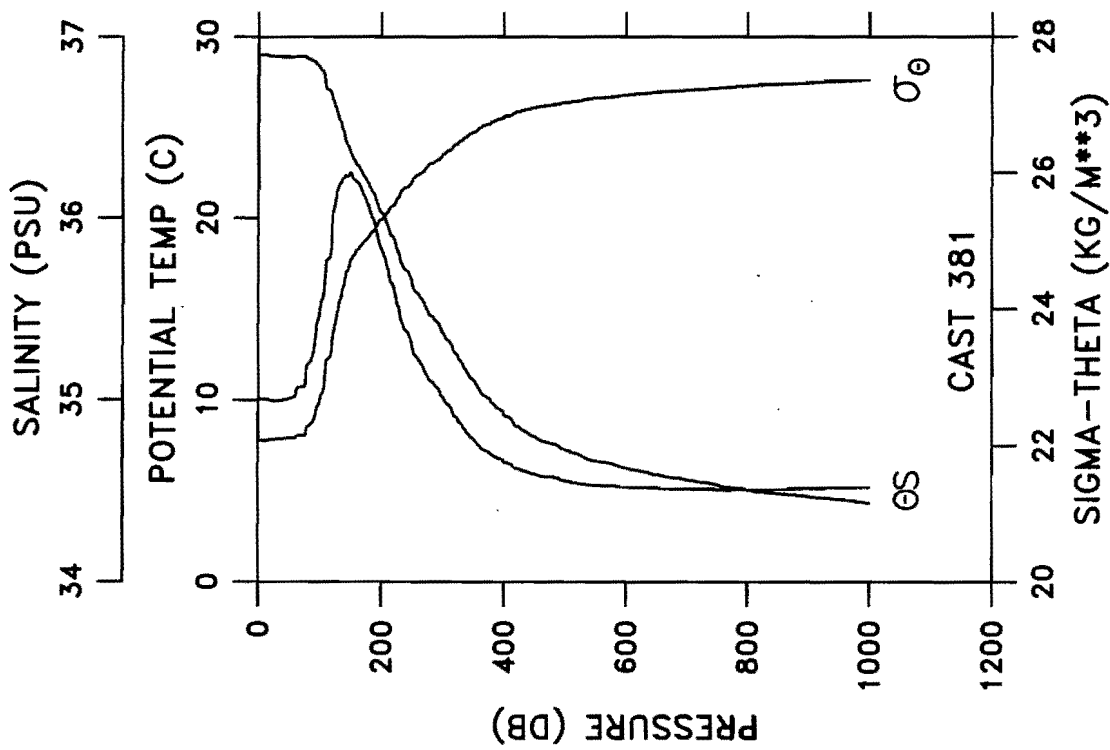
CAST GP7-99-KA-0371 DATE 10 NOV 99 TIME 0107 GMT
 LAT 09 57.1S LONG 171 56.8W WEATHER 1 SEA STATE 4
 BAROMETER 09 WIND DIR 353 T SPD 06 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 28.5 WET 25.7 DEPTH 3909 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.092	35.241	22.216	0.000
10	29.041	35.238	22.232	0.056
20	29.015	35.238	22.240	0.112
30	29.004	35.239	22.244	0.168
40	28.994	35.239	22.248	0.224
50	28.983	35.242	22.254	0.280
60	28.980	35.394	22.368	0.335
70	28.836	35.450	22.460	0.390
80	28.359	35.497	22.653	0.443
90	28.121	35.550	22.771	0.495
100	27.926	35.590	22.865	0.546
110	27.478	35.674	23.074	0.595
120	26.931	35.761	23.315	0.642
130	26.108	35.915	23.692	0.686
140	25.910	35.983	23.805	0.728
150	25.154	36.170	24.180	0.768
160	24.364	36.248	24.479	0.805
170	23.950	36.235	24.593	0.840
180	23.256	36.176	24.753	0.873
190	22.378	36.062	24.920	0.905
200	21.547	35.975	25.087	0.935
250	17.396	35.433	25.753	1.064
300	14.262	35.092	26.203	1.170
350	11.315	34.848	26.601	1.254
400	9.813	34.729	26.772	1.326
450	8.726	34.657	26.893	1.391
500	7.494	34.567	27.008	1.450
550	6.865	34.539	27.074	1.504
600	6.329	34.520	27.131	1.556
650	6.104	34.517	27.158	1.606
700	5.719	34.514	27.204	1.655
750	5.448	34.513	27.236	1.702
800	5.145	34.514	27.273	1.747
900	4.676	34.521	27.332	1.833
1000	4.246	34.532	27.388	1.914
1500	2.793	34.592	27.578	2.260
2000	2.059	34.636	27.675	2.536
2500	1.690	34.663	27.725	2.783
3000	1.459	34.676	27.753	3.014
3500	1.283	34.684	27.772	3.240
3703	1.190	34.689	27.783	3.330

CAST GP7-99-KA-0381 DATE 10 NOV 99 TIME 1226 GMT
 LAT 10 59.9S LONG 173 02.2W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 109 T SPD 07 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 27.0 WET 25.9 DEPTH 4688 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.993	35.008	22.075	0.000
10	28.996	35.006	22.072	0.057
20	28.932	34.997	22.087	0.115
30	28.906	34.996	22.095	0.172
40	28.894	35.000	22.102	0.230
50	28.892	35.007	22.108	0.287
60	28.900	35.019	22.114	0.344
70	28.921	35.073	22.148	0.401
80	28.803	35.196	22.279	0.458
90	28.674	35.262	22.371	0.514
100	28.313	35.492	22.664	0.567
110	27.236	35.744	23.204	0.618
120	26.711	35.946	23.525	0.664
130	25.704	36.161	24.004	0.706
140	24.608	36.221	24.385	0.743
150	23.590	36.249	24.711	0.777
160	22.927	36.200	24.867	0.810
170	22.412	36.139	24.968	0.841
180	21.859	36.058	25.063	0.871
190	21.179	35.959	25.176	0.900
200	20.318	35.830	25.311	0.928
250	16.406	35.289	25.877	1.051
300	13.690	35.015	26.264	1.151
350	11.113	34.787	26.590	1.235
400	9.202	34.658	26.818	1.306
450	7.990	34.592	26.955	1.367
500	7.266	34.555	27.031	1.424
550	6.651	34.531	27.097	1.478
600	6.250	34.522	27.143	1.529
650	5.898	34.516	27.184	1.578
700	5.598	34.511	27.217	1.626
750	5.342	34.508	27.245	1.672
800	5.057	34.509	27.279	1.717
900	4.692	34.514	27.325	1.803
1000	4.332	34.519	27.369	1.886
1002	4.326	34.519	27.369	1.887



CAST GP7-99-KA-0011 LAT 10 34.1N LONG 155 33.7W CAST GP7-99-KA-0031 LAT 07 01.3N LONG 154 57.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
994.	4.213	34.557	4.136	27.421	4.	28.187	34.475	28.186	21.942
997.	4.204	34.558	4.127	27.422	21.	28.107	34.506	28.102	21.994
996.	4.210	34.558	4.133	27.421	30.	28.092	34.587	28.085	22.068
996.	4.208	34.558	4.131	27.421	40.	28.120	34.837	28.110	22.246
996.	4.211	34.560	4.134	27.421	60.	27.807	34.921	27.793	22.405
996.	4.210	34.559	4.133	27.421	102.	25.253	34.896	25.231	23.188
996.	4.208	34.558	4.131	27.421	151.	15.496	34.661	15.473	25.604
996.	4.208	34.559	4.131	27.421	204.	11.502	34.641	11.476	26.410
996.	4.208	34.559	4.131	27.421	401.	9.060	34.644	9.016	26.837
997.	4.205	34.559	4.128	27.422	600.	7.505	34.583	7.445	27.028
996.	4.211	34.558	4.134	27.421	800.	5.868	34.548	5.797	27.221
1003.	4.189	34.558	4.111	27.424	1005.	4.865	34.552	4.782	27.346

CAST GP7-99-KA-0021 LAT 07 56.7N LONG 154 59.2W CAST GP7-99-KA-0041 LAT 06 00.4N LONG 154 56.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.382	34.405	28.382	21.824	3.	28.197	34.814	28.196	22.192
20.	28.385	34.404	28.380	21.824	20.	28.199	34.813	28.194	22.193
36.	28.398	34.406	28.389	21.823	29.	28.200	34.813	28.194	22.193
45.	28.412	34.415	28.401	21.826	40.	28.202	34.813	28.192	22.193
61.	28.433	34.427	28.418	21.829	60.	28.135	34.815	28.121	22.218
101.	19.954	34.799	19.935	24.602	101.	27.309	34.909	27.286	22.554
151.	12.477	34.608	12.457	26.195	151.	19.065	34.773	19.038	24.827
202.	10.723	34.686	10.698	26.586	200.	13.337	34.616	13.309	26.031
401.	8.835	34.633	8.791	26.865	401.	9.022	34.649	8.978	26.847
600.	7.041	34.562	6.983	27.076	601.	7.580	34.587	7.520	27.021
799.	5.612	34.545	5.543	27.250	798.	5.910	34.550	5.839	27.217
1004.	4.728	34.553	4.646	27.361	1003.	4.762	34.554	4.680	27.359

CAST GP7-99-KA-0091 LAT 01 00.1N LONG 154 58.9W CAST GP7-99-KA-0111 LAT 00 29.4S LONG 155 00.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.814	34.977	25.814	23.076	3.	25.311	35.080	25.310	23.308
11.	25.788	34.976	25.786	23.084	10.	25.309	35.078	25.306	23.309
20.	25.741	34.975	25.737	23.099	21.	25.144	35.075	25.140	23.356
30.	25.721	34.974	25.714	23.105	31.	25.034	35.070	25.028	23.387
55.	25.609	34.965	25.597	23.133	41.	24.921	35.067	24.912	23.420
99.	23.302	34.863	23.282	23.748	75.	24.312	35.080	24.296	23.614
149.	14.858	34.654	14.836	25.737	121.	20.313	35.597	20.291	25.143
200.	12.653	34.816	12.626	26.324	201.	13.427	34.954	13.399	26.280
400.	9.291	34.685	9.247	26.832	400.	9.082	34.674	9.038	26.857
600.	7.070	34.582	7.012	27.088	600.	7.338	34.589	7.279	27.057
800.	5.789	34.550	5.719	27.233	800.	5.700	34.550	5.630	27.244
1002.	4.591	34.555	4.511	27.378	1003.	4.784	34.551	4.702	27.353

CAST GP7-99-KA-0101 LAT 00 04.6N LONG 155 03.4W CAST GP7-99-KA-0121 LAT 00 59.2S LONG 154 59.3W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1001.	4.614	34.555	4.534	27.375	3.	25.460	35.132	25.459	23.302
1501.	2.955	34.607	2.847	27.585	11.	25.480	35.133	25.477	23.298
1750.	2.570	34.625	2.446	27.635	20.	25.476	35.132	25.472	23.299
2001.	2.277	34.640	2.136	27.672	30.	25.472	35.132	25.465	23.300
2251.	2.066	34.652	1.907	27.700	40.	25.398	35.126	25.389	23.319
2501.	1.848	34.663	1.671	27.727	75.	25.060	35.161	25.044	23.453
2751.	1.737	34.682	1.539	27.744	120.	21.680	35.639	21.656	24.796
3000.	1.660	34.675	1.439	27.754	199.	14.120	35.067	14.091	26.216
3250.	1.547	34.682	1.305	27.768	400.	9.269	34.686	9.225	26.836
3501.	1.496	34.685	1.230	27.777	598.	6.970	34.579	6.913	27.099
3751.	1.441	34.690	1.150	27.786	799.	5.507	34.547	5.438	27.264
4005.	1.418	34.696	1.101	27.792	1003.	4.549	34.554	4.469	27.381

CAST GP7-99-KA-0131 LAT 01 29.6S LONG 154 57.6W CAST GP7-99-KA-0151 LAT 02 29.3S LONG 154 57.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
5.	25.691	35.163	25.690	23.255	3.	26.231	35.296	26.230	23.187
10.	25.683	35.163	25.680	23.258	10.	26.236	35.296	26.234	23.185
19.	25.689	35.163	25.684	23.256	20.	26.209	35.296	26.205	23.195
32.	25.682	35.166	25.675	23.262	30.	26.210	35.299	26.203	23.197
40.	25.671	35.168	25.662	23.268	40.	26.210	35.298	26.201	23.197
76.	25.587	35.267	25.570	23.372	74.	26.220	35.307	26.204	23.204
121.	19.884	35.570	19.861	25.228	121.	24.037	35.580	24.011	24.076
201.	13.141	34.944	13.113	26.328	201.	12.731	34.912	12.704	26.384
400.	9.234	34.685	9.190	26.843	400.	10.438	34.773	10.390	26.708
601.	7.321	34.588	7.262	27.058	601.	7.453	34.605	7.393	27.052
801.	5.741	34.545	5.671	27.235	800.	5.535	34.546	5.466	27.260
1003.	4.495	34.550	4.415	27.384	1003.	4.461	34.544	4.381	27.384

CAST GP7-99-KA-0141 LAT 02 00.2S LONG 154 56.8W CAST GP7-99-KA-0161 LAT 02 59.5S LONG 154 57.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	25.889	35.201	25.888	23.222	4.	26.421	35.289	26.420	23.121
10.	25.900	35.201	25.898	23.218	10.	26.376	35.289	26.374	23.134
21.	25.903	35.200	25.898	23.217	20.	26.257	35.285	26.252	23.170
30.	25.896	35.200	25.889	23.220	30.	26.243	35.285	26.236	23.175
39.	25.903	35.200	25.894	23.219	50.	26.247	35.290	26.235	23.181
75.	25.907	35.201	25.891	23.221	71.	26.281	35.314	26.265	23.188
120.	24.528	35.562	24.502	23.918	125.	25.267	35.478	25.239	23.627
200.	12.706	34.919	12.679	26.391	200.	12.781	34.921	12.754	26.382
400.	10.057	34.745	10.010	26.751	401.	10.799	34.799	10.750	26.666
601.	7.133	34.582	7.075	27.079	601.	7.323	34.599	7.264	27.066
799.	5.753	34.550	5.683	27.236	801.	5.603	34.545	5.534	27.251
1001.	4.462	34.554	4.382	27.391	1001.	4.518	34.547	4.438	27.379

CAST GP7-99-KA-0171 LAT 03 51.9S LONG 155 02.2W CAST GP7-99-KA-0191 LAT 05 59.7S LONG 154 59.6W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	26.494	35.378	26.493	23.166	4.	26.923	35.534	26.922	23.147
10.	26.500	35.377	26.498	23.164	11.	26.927	35.533	26.924	23.146
20.	26.502	35.378	26.498	23.164	26.	26.934	35.533	26.928	23.145
30.	26.488	35.376	26.481	23.168	39.	26.921	35.532	26.913	23.148
50.	26.482	35.376	26.471	23.171	60.	26.929	35.532	26.915	23.147
70.	26.457	35.375	26.441	23.180	100.	26.698	35.539	26.676	23.229
124.	26.275	35.418	26.247	23.265	150.	25.111	35.546	25.079	23.737
200.	13.070	34.945	13.042	26.342	201.	19.599	35.603	19.562	25.331
400.	10.413	34.772	10.365	26.710	400.	9.695	34.728	9.649	26.799
600.	7.132	34.590	7.074	27.086	601.	7.306	34.583	7.247	27.056
799.	5.833	34.551	5.763	27.227	800.	5.588	34.539	5.518	27.248
1002.	4.788	34.543	4.706	27.347	999.	4.624	34.542	4.544	27.363

CAST GP7-99-KA-0181 LAT 05 00.1S LONG 155 01.1W CAST GP7-99-KA-0201 LAT 06 59.6S LONG 155 00.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1001.	4.461	34.544	4.382	27.384	3.	27.656	35.559	27.656	22.930
1499.	2.879	34.605	2.773	27.591	10.	27.656	35.560	27.654	22.930
1750.	2.444	34.626	2.322	27.646	25.	27.656	35.558	27.650	22.931
1999.	2.208	34.642	2.069	27.680	41.	27.658	35.558	27.648	22.931
2249.	2.050	34.652	1.891	27.703	60.	27.656	35.556	27.641	22.932
2500.	1.891	34.662	1.713	27.724	102.	27.166	35.512	27.142	23.075
2748.	1.789	34.669	1.590	27.739	150.	23.988	36.027	23.956	24.416
2999.	1.689	34.677	1.468	27.753	200.	18.971	35.579	18.935	25.472
3250.	1.614	34.679	1.370	27.764	400.	8.972	34.677	8.929	26.874
3500.	1.526	34.686	1.259	27.775	600.	6.789	34.565	6.733	27.111
3748.	1.464	34.690	1.173	27.785	799.	5.460	34.540	5.391	27.264
4003.	1.390	34.695	1.074	27.796	1003.	4.467	34.544	4.387	27.381

CAST GP7-99-KA-0211 LAT 08 17.6S LONG 155 04.6W										CAST GP7-99-KA-0261 LAT 00 30.1S LONG 170 01.4W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
1000.	4.442	34.540	4.363	27.381	5.	26.354	35.124	26.353	23.022										
1500.	2.895	34.597	2.789	27.584	10.	26.368	35.125	26.366	23.017										
1751.	2.554	34.617	2.430	27.630	20.	26.369	35.125	26.364	23.018										
2000.	2.190	34.640	2.050	27.680	31.	26.365	35.125	26.358	23.020										
2248.	2.006	34.653	1.848	27.706	50.	26.289	35.156	26.278	23.069										
2499.	1.840	34.667	1.663	27.731	76.	26.134	35.244	26.117	23.188										
2751.	1.727	34.695	1.528	27.747	116.	25.231	35.506	25.205	23.671										
2998.	1.660	34.679	1.440	27.757	202.	14.487	35.150	14.457	26.198										
3250.	1.579	34.684	1.336	27.768	401.	9.266	34.686	9.221	26.833										
3502.	1.511	34.688	1.245	27.778	599.	7.035	34.576	6.978	27.090										
3750.	1.472	34.691	1.181	27.785	800.	5.685	34.547	5.615	27.245										
4004.	1.399	34.696	1.082	27.795	1002.	4.736	34.550	4.655	27.359										
CAST GP7-99-KA-0251 LAT 00 02.6S LONG 170 01.7W										CAST GP7-99-KA-0271 LAT 00 59.9S LONG 170 01.1W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	26.594	35.080	26.593	22.912	3.	26.396	35.145	26.395	23.023										
4.	26.594	35.080	26.593	22.912	10.	26.396	35.144	26.394	23.023										
202.	15.174	35.139	15.143	26.035	20.	26.397	35.148	26.393	23.024										
202.	15.278	35.145	15.247	26.022	30.	26.399	35.146	26.392	23.024										
400.	9.372	34.684	9.327	26.820	49.	26.405	35.157	26.394	23.032										
400.	9.372	34.684	9.328	26.820	74.	26.408	35.171	26.391	23.044										
599.	7.256	34.589	7.198	27.068	115.	26.122	35.338	26.096	23.274										
599.	7.229	34.588	7.171	27.071	200.	13.649	35.055	13.621	26.307										
799.	5.708	34.551	5.639	27.245	400.	9.661	34.707	9.616	26.788										
799.	5.706	34.550	5.636	27.245	600.	6.922	34.576	6.865	27.105										
1002.	4.577	34.554	4.497	27.381	801.	5.730	34.544	5.660	27.236										
1002.	4.577	34.554	4.496	27.381	1000.	4.698	34.545	4.617	27.360										

CAST GP7-99-KA-0281 LAT 01 29.8S LONG 170 02.1W CAST GP7-99-KA-0301 LAT 03 00.0S LONG 170 01.5W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	27.332	35.383	27.331	22.904	3.	27.695	35.559	27.695	22.919
10.	27.270	35.382	27.268	22.923	9.	27.702	35.559	27.700	22.917
20.	27.252	35.381	27.247	22.929	21.	27.709	35.561	27.704	22.915
46.	27.214	35.380	27.204	22.943	40.	27.701	35.560	27.691	22.920
60.	27.146	35.377	27.132	22.963	58.	27.646	35.563	27.632	22.941
90.	26.580	35.319	26.559	23.102	80.	27.602	35.567	27.583	22.958
141.	21.977	35.659	21.949	24.730	125.	26.043	35.380	26.015	23.315
202.	12.657	34.925	12.630	26.411	199.	14.140	35.116	14.111	26.249
401.	9.302	34.683	9.257	26.830	400.	9.495	34.704	9.449	26.813
601.	7.151	34.581	7.093	27.076	600.	7.289	34.592	7.231	27.066
799.	5.741	34.543	5.671	27.235	800.	5.564	34.544	5.495	27.255
1000.	4.792	34.544	4.710	27.348	1003.	4.512	34.550	4.432	27.384

CAST GP7-99-KA-0291 LAT 02 11.9S LONG 170 05.8W CAST GP7-99-KA-0311 LAT 04 00.0S LONG 170 01.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1000.	4.615	34.546	4.534	27.368	4.	27.620	35.543	27.619	22.931
1501.	3.008	34.601	2.900	27.576	11.	27.624	35.545	27.621	22.930
1750.	2.568	34.622	2.444	27.633	21.	27.628	35.546	27.623	22.931
1999.	2.262	34.640	2.121	27.674	41.	27.632	33.582	27.623	22.929
2249.	2.052	34.653	1.893	27.701	61.	27.631	35.551	27.616	22.935
2500.	1.912	34.660	1.733	27.719	80.	27.608	35.560	27.589	22.951
2750.	1.788	34.667	1.589	27.736	125.	26.915	35.487	26.886	23.104
3000.	1.674	34.673	1.453	27.751	201.	15.361	35.209	15.330	26.056
3249.	1.562	34.681	1.319	27.766	401.	9.424	34.708	9.379	26.827
3500.	1.511	34.685	1.245	27.776	599.	7.059	34.587	7.001	27.093
3751.	1.447	34.691	1.156	27.786	801.	5.722	34.549	5.652	27.239
4002.	1.418	34.694	1.101	27.792	1000.	4.497	34.545	4.417	27.379

CAST GP7-99-KA-0321 LAT 05 00.4S LONG 170 00.5W
 CAST GP7-99-KA-0341 LAT 06 59.9S LONG 170 00.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	27.823	35.517	27.823	22.843	3.	28.473	35.584	28.472	22.684
11.	27.826	35.517	27.824	22.842	10.	28.472	35.584	28.470	22.684
20.	27.806	35.516	27.802	22.849	20.	28.472	35.585	28.467	22.685
41.	27.805	35.518	27.795	22.852	35.	28.471	35.584	28.462	22.685
80.	27.811	35.519	27.792	22.854	61.	28.476	35.583	28.461	22.685
126.	27.723	35.516	27.694	22.881	101.	28.460	35.583	28.436	22.691
202.	18.381	35.509	18.345	25.562	162.	24.828	35.986	24.793	24.165
401.	9.176	34.694	9.131	26.852	202.	20.814	35.827	20.775	25.174
600.	7.040	34.570	6.983	27.085	401.	8.728	34.660	8.685	26.902
799.	5.815	34.540	5.745	27.220	601.	6.492	34.550	6.437	27.140
1001.	4.602	34.543	4.522	27.367	800.	5.236	34.538	5.169	27.289
					1001.	4.508	34.545	4.428	27.379

CAST GP7-99-KA-0331 LAT 05 59.8S LONG 170 00.0W
 CAST GP7-99-KA-0351 LAT 07 57.6S LONG 169 56.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.044	35.566	28.043	22.809	4.	28.947	35.501	28.946	22.460
10.	28.055	35.568	28.053	22.806	4.	28.947	35.501	28.946	22.460
19.	28.042	35.566	28.037	22.811	17.	28.788	35.535	28.784	22.545
35.	28.006	35.565	27.998	22.823	30.	28.767	35.542	28.760	22.552
60.	27.951	35.563	27.936	22.842	45.	28.751	35.544	28.740	22.561
102.	27.492	35.522	27.468	22.955	111.	28.183	35.559	28.156	22.763
160.	23.480	35.952	23.447	24.520	171.	23.386	36.063	23.350	24.636
200.	19.471	35.667	19.435	25.396	201.	21.621	36.001	21.582	25.080
401.	9.382	34.701	9.337	26.830	401.	8.754	34.663	8.711	26.898
599.	7.243	34.570	7.185	27.054	602.	6.732	34.557	6.676	27.114
800.	5.711	34.542	5.641	27.236	801.	5.534	34.532	5.465	27.248
1005.	4.494	34.546	4.414	27.382	1000.	4.549	34.537	4.469	27.367

CAST GP7-99-KA-0361 LAT 09 00.1S LONG 170 59.2W CAST GP7-99-KA-0381 LAT 10 59.9S LONG 173 02.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	28.900	35.409	28.899	22.409	201.	20.650	35.871	20.612	25.259
4.	28.905	35.411	28.904	22.407	401.	9.164	34.654	9.120	26.825
201.	21.219	35.903	21.180	25.131	601.	6.245	34.521	6.191	27.148
201.	21.221	35.899	21.182	25.130	802.	5.186	34.511	5.120	27.271
400.	9.826	34.728	9.780	26.775	1000.	4.407	34.522	4.328	27.369
400.	9.831	34.726	9.785	26.775					
601.	7.056	34.561	6.998	27.074					
601.	7.060	34.561	7.002	27.073					
802.	5.781	34.533	5.711	27.219					
1001.	4.427	34.536	4.348	27.381					
1000.	4.432	34.542	4.353	27.381					
1001.	4.429	34.537	4.350	27.381					

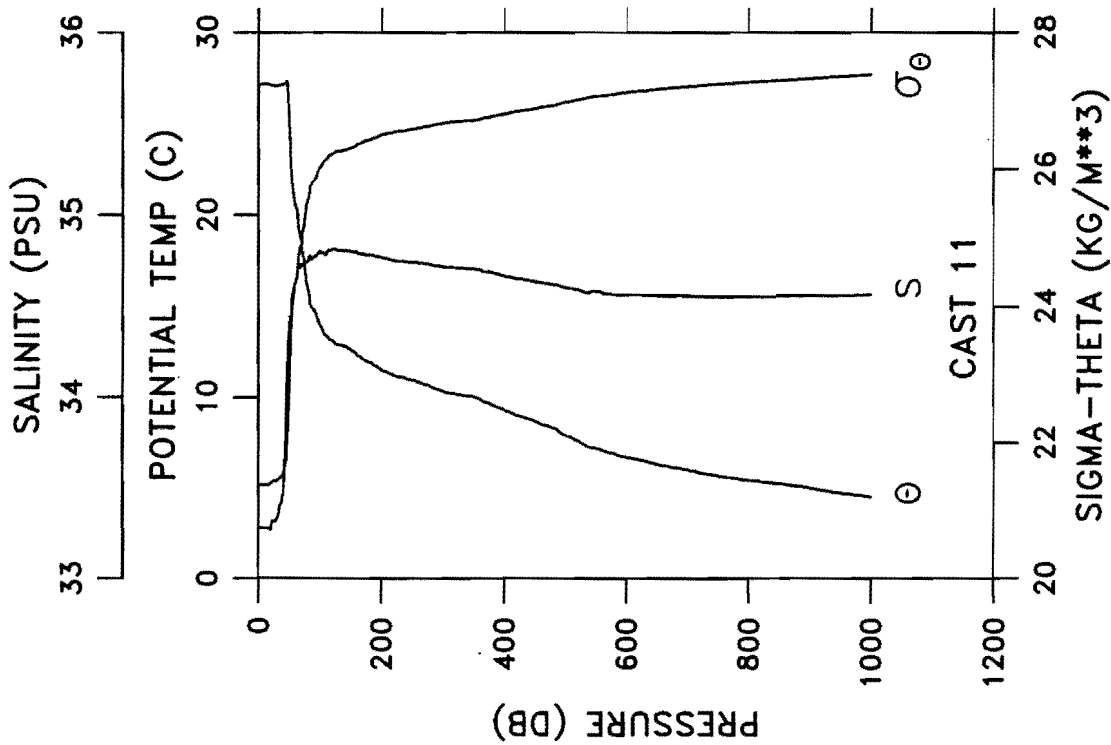
CAST GP7-99-KA-0371 LAT 09 57.1S LONG 171 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1001.	4.384	34.531	4.305	27.381
1501.	2.955	34.590	2.847	27.570
1747.	2.438	34.619	2.316	27.639
2002.	2.182	34.636	2.043	27.677
2500.	1.854	34.662	1.676	27.727
2752.	1.748	34.671	1.549	27.742
3001.	1.678	34.677	1.457	27.753
3251.	1.621	34.679	1.377	27.762
3497.	1.555	34.683	1.288	27.771
3703.	1.480	34.691	1.193	27.782

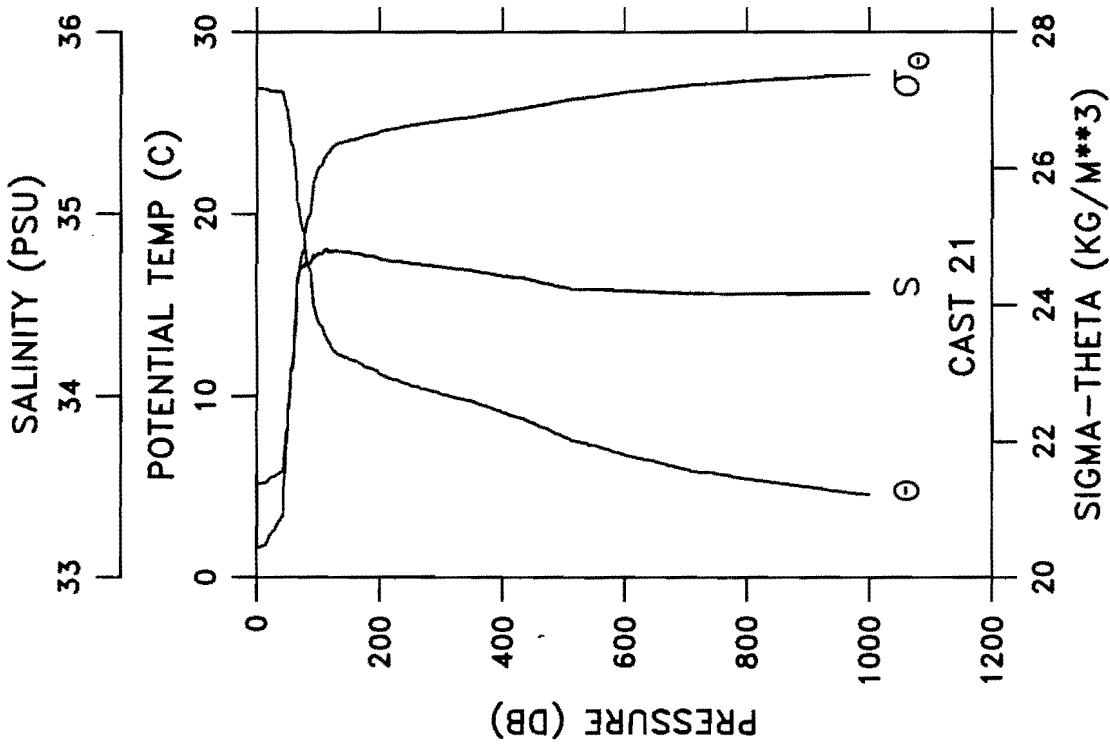
GP8-99-RB
November 11–December 2, 1999
CTD and Hydrographic Data Summary

CAST GP8-99-RB-0011 DATE 11 NOV 99 TIME 1258 GMT
 LAT 8 02.6N LONG 110 08.3W WEATHER 1 SEA STATE 2
 BAROMETER 12 WIND DIR 065 T SPD 09 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 26.6 WET 23.8 DEPTH 4231 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.145	33.284	21.382	0.000
10	27.149	33.280	21.377	0.064
20	27.076	33.269	21.393	0.128
30	27.066	33.331	21.442	0.192
40	27.126	33.477	21.533	0.255
50	25.430	34.354	22.724	0.314
60	20.525	34.631	24.342	0.355
70	18.588	34.715	24.909	0.388
80	16.063	34.746	25.539	0.416
90	14.823	34.770	25.834	0.439
100	14.009	34.802	26.033	0.460
110	13.420	34.779	26.137	0.479
120	13.139	34.811	26.219	0.497
130	12.905	34.806	26.262	0.515
140	12.821	34.803	26.277	0.533
150	12.663	34.801	26.306	0.551
160	12.327	34.793	26.366	0.568
170	12.142	34.784	26.394	0.585
180	11.944	34.783	26.432	0.601
190	11.752	34.773	26.461	0.618
200	11.505	34.768	26.503	0.634
250	10.962	34.740	26.581	0.710
300	10.348	34.716	26.671	0.784
350	10.053	34.705	26.713	0.854
400	9.328	34.666	26.804	0.922
450	8.691	34.634	26.881	0.987
500	7.904	34.603	26.977	1.047
550	7.186	34.581	27.063	1.103
600	6.664	34.563	27.120	1.156
650	6.280	34.558	27.167	1.207
700	5.989	34.556	27.204	1.255
750	5.654	34.552	27.242	1.302
800	5.420	34.553	27.271	1.348
900	4.996	34.560	27.327	1.435
1000	4.515	34.564	27.384	1.517
1001	4.514	34.564	27.384	1.518



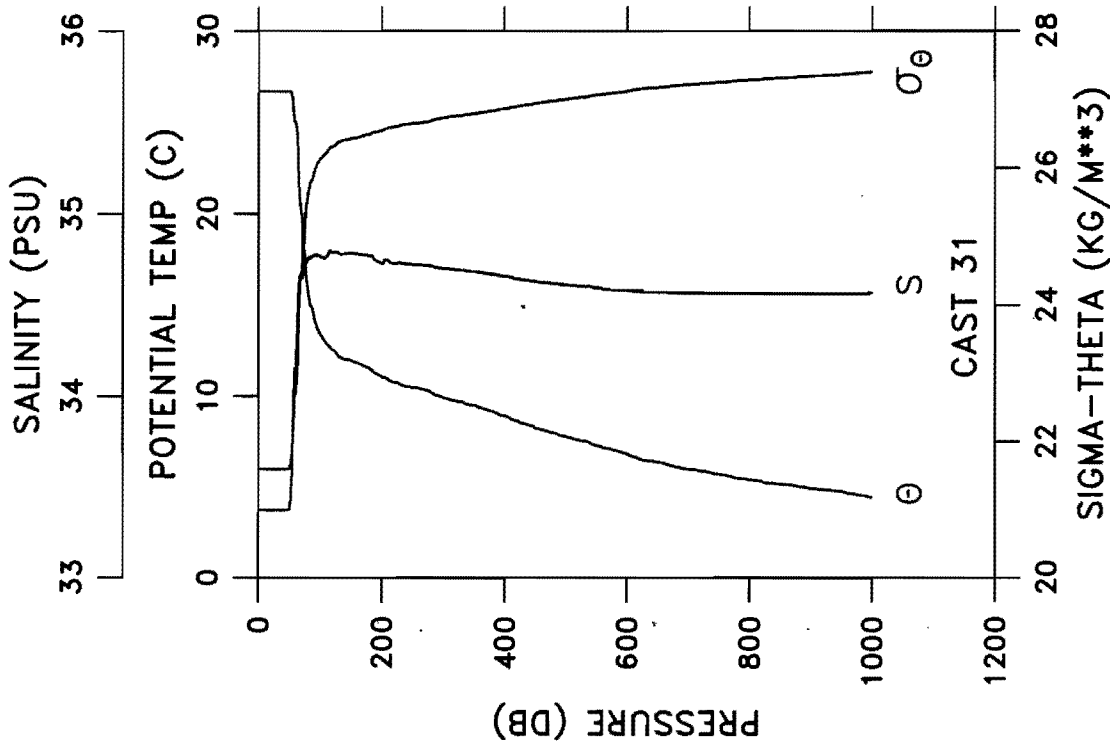
CAST GP8-99-RB-0021 DATE 12 NOV 99 TIME 1157 GMT
 LAT 7 00.4N LONG 110 00.3W WEATHER 6 SEA STATE 3
 BAROMETER 11 WIND DIR 180 T SPD 10 KT VISIBILITY 7
 CLOUD 7 AMOUNT 7 DRY 24.7 WET 23.5 DEPTH 3717 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.873	33.168	21.381	0.000
10	26.866	33.176	21.389	0.064
20	26.790	33.220	21.446	0.128
30	26.740	33.265	21.496	0.191
40	26.700	33.328	21.556	0.254
50	25.615	33.835	22.276	0.314
60	23.444	34.253	23.240	0.364
70	19.940	34.691	24.543	0.403
80	17.698	34.733	25.143	0.435
90	15.922	34.745	25.570	0.462
100	14.123	34.777	25.989	0.484
110	13.352	34.800	26.168	0.504
120	12.776	34.791	26.276	0.522
130	12.335	34.794	26.366	0.539
140	12.187	34.791	26.389	0.556
150	12.039	34.788	26.418	0.572
160	11.934	34.782	26.433	0.589
170	11.760	34.776	26.461	0.605
180	11.571	34.768	26.490	0.621
190	11.480	34.766	26.506	0.636
200	11.235	34.751	26.539	0.652
250	10.600	34.729	26.636	0.727
300	10.113	34.708	26.705	0.798
350	9.727	34.689	26.756	0.867
400	9.095	34.655	26.833	0.933
450	8.542	34.635	26.905	0.996
500	7.770	34.597	26.992	1.056
550	7.313	34.587	27.049	1.112
600	6.767	34.578	27.119	1.165
650	6.404	34.572	27.162	1.215
700	5.977	34.563	27.211	1.264
750	5.721	34.563	27.243	1.311
800	5.440	34.561	27.275	1.356
900	5.003	34.561	27.327	1.443
1000	4.584	34.563	27.376	1.525
1002	4.585	34.563	27.376	1.527

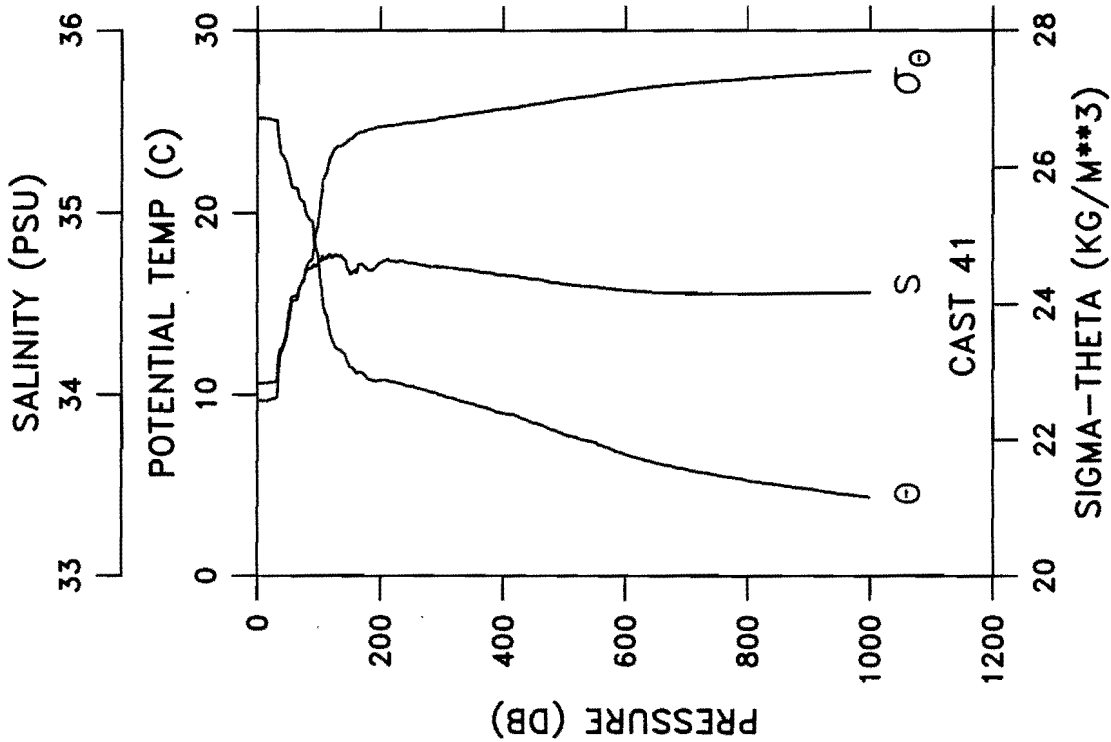
CAST GP8-99-RB-0031 DATE 12 NOV 99 TIME 1800 GMT
 LAT 6 00.0N LONG 110 00.0W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 170 T SPD 14 KT VISIBILITY 8
 CLOUD 3 AMOUNT 7 DRY 26.0 WET 23.0 DEPTH 3685 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.696	33.374	21.592	0.000
10	26.694	33.372	21.591	0.062
20	26.692	33.372	21.591	0.124
30	26.689	33.372	21.593	0.186
40	26.688	33.372	21.593	0.248
50	26.684	33.377	21.598	0.311
60	25.005	34.159	22.706	0.368
70	19.800	34.647	24.546	0.410
80	15.760	34.759	25.618	0.439
90	14.376	34.776	25.935	0.461
100	13.395	34.764	26.131	0.481
110	12.889	34.760	26.230	0.499
120	12.560	34.787	26.316	0.517
130	12.182	34.783	26.386	0.534
140	12.040	34.780	26.411	0.550
150	11.968	34.784	26.428	0.567
160	11.858	34.779	26.445	0.583
170	11.691	34.773	26.472	0.599
180	11.569	34.770	26.493	0.615
190	11.268	34.742	26.526	0.631
200	11.084	34.727	26.548	0.646
250	10.497	34.723	26.650	0.719
300	9.930	34.701	26.731	0.790
350	9.522	34.683	26.785	0.858
400	8.925	34.657	26.862	0.922
450	8.251	34.628	26.944	0.984
500	7.790	34.612	27.000	1.042
550	7.276	34.596	27.062	1.097
600	6.813	34.581	27.115	1.151
650	6.356	34.572	27.169	1.201
700	5.963	34.565	27.214	1.249
750	5.691	34.562	27.245	1.296
800	5.377	34.560	27.282	1.341
900	4.904	34.562	27.339	1.427
1000	4.421	34.567	27.397	1.508
1002	4.416	34.567	27.398	1.510



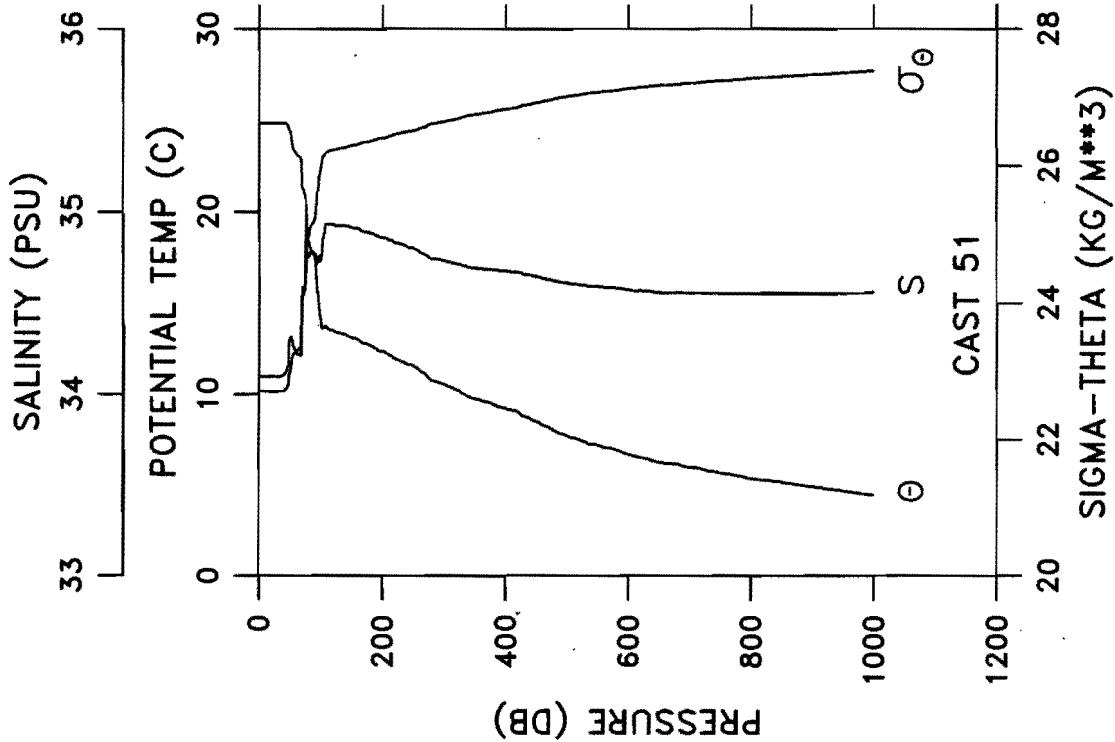
CAST GP8-99-RB-0041 DATE 12 NOV 99 TIME 2356 GMT
 LAT 4 59.9N LONG 109 59.4W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DIR 160 T SPD 12 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 25.0 WET 22.0 DEPTH 3923 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.183	34.068	22.583	0.000
10	25.184	34.067	22.582	0.053
20	25.143	34.068	22.595	0.105
30	25.077	34.077	22.622	0.158
40	23.178	34.262	23.324	0.206
50	22.318	34.423	23.892	0.250
60	21.346	34.544	24.054	0.290
70	20.726	34.601	24.265	0.328
80	19.917	34.680	24.541	0.364
90	19.440	34.703	24.683	0.398
100	17.146	34.743	25.283	0.427
110	14.535	34.751	25.882	0.451
120	13.192	34.758	26.168	0.471
130	12.519	34.768	26.309	0.489
140	12.300	34.750	26.338	0.507
150	11.559	34.668	26.415	0.523
160	11.227	34.677	26.483	0.539
170	11.234	34.719	26.515	0.555
180	10.860	34.685	26.552	0.570
190	10.790	34.694	26.575	0.586
200	10.815	34.726	26.596	0.600
250	10.477	34.725	26.655	0.673
300	9.989	34.703	26.722	0.744
350	9.522	34.685	26.787	0.811
400	8.978	34.657	26.854	0.876
450	8.447	34.637	26.921	0.939
500	7.809	34.609	26.995	0.998
550	7.378	34.596	27.048	1.054
600	6.708	34.576	27.125	1.107
650	6.220	34.565	27.181	1.156
700	5.874	34.562	27.223	1.204
750	5.544	34.558	27.260	1.250
800	5.243	34.557	27.296	1.295
850	4.781	34.560	27.352	1.379
900	4.349	34.565	27.403	1.458
1000	4.350	34.565	27.403	1.460



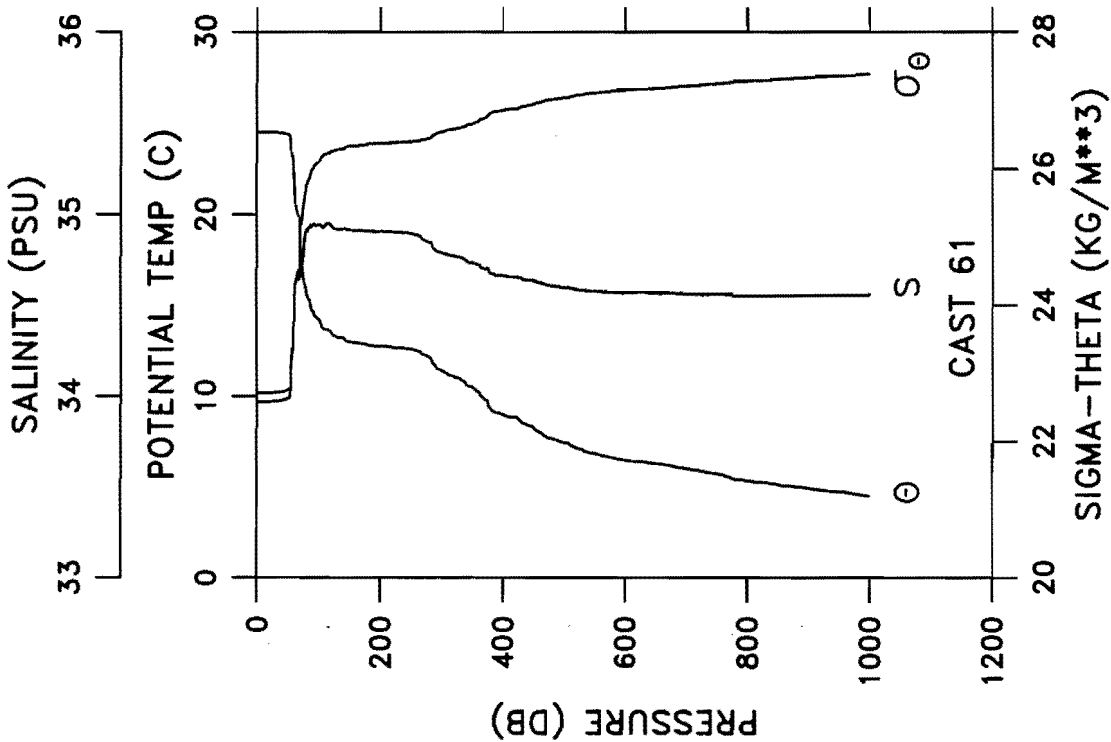
CAST GP8-99-RB-0051 DATE 13 NOV 99 TIME 0742 GMT
 LAT 4 00.1N LONG 110 00.0W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DIR 164 T SPD 17 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 24.0 WET 21.5 DEPTH 3878 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.828	34.101	22.715	0.000
10	24.837	34.098	22.711	0.051
20	24.836	34.099	22.712	0.103
30	24.829	34.099	22.714	0.154
40	24.828	34.107	22.720	0.206
50	24.414	34.303	22.983	0.256
60	23.185	34.235	23.302	0.303
70	21.249	34.590	24.116	0.348
80	18.401	34.752	24.983	0.383
90	17.490	34.770	25.221	0.411
100	14.089	34.744	25.971	0.435
110	13.686	34.933	26.202	0.454
120	13.532	34.931	26.232	0.472
130	13.397	34.923	26.254	0.490
140	13.309	34.923	26.271	0.508
150	13.130	34.912	26.299	0.526
160	13.013	34.906	26.318	0.543
170	12.808	34.889	26.346	0.561
180	12.692	34.884	26.365	0.578
190	12.520	34.869	26.387	0.595
200	12.375	34.859	26.408	0.611
250	11.572	34.800	26.515	0.692
300	10.547	34.732	26.648	0.767
350	9.771	34.691	26.750	0.838
400	9.254	34.678	26.826	0.904
450	8.492	34.645	26.920	0.967
500	7.713	34.612	27.012	1.026
550	7.186	34.593	27.073	1.081
600	6.681	34.576	27.128	1.133
650	6.254	34.560	27.172	1.183
700	5.984	34.556	27.204	1.232
750	5.673	34.553	27.240	1.279
800	5.368	34.552	27.278	1.324
900	4.901	34.553	27.333	1.411
1000	4.452	34.561	27.389	1.492
1003	4.438	34.560	27.390	1.495



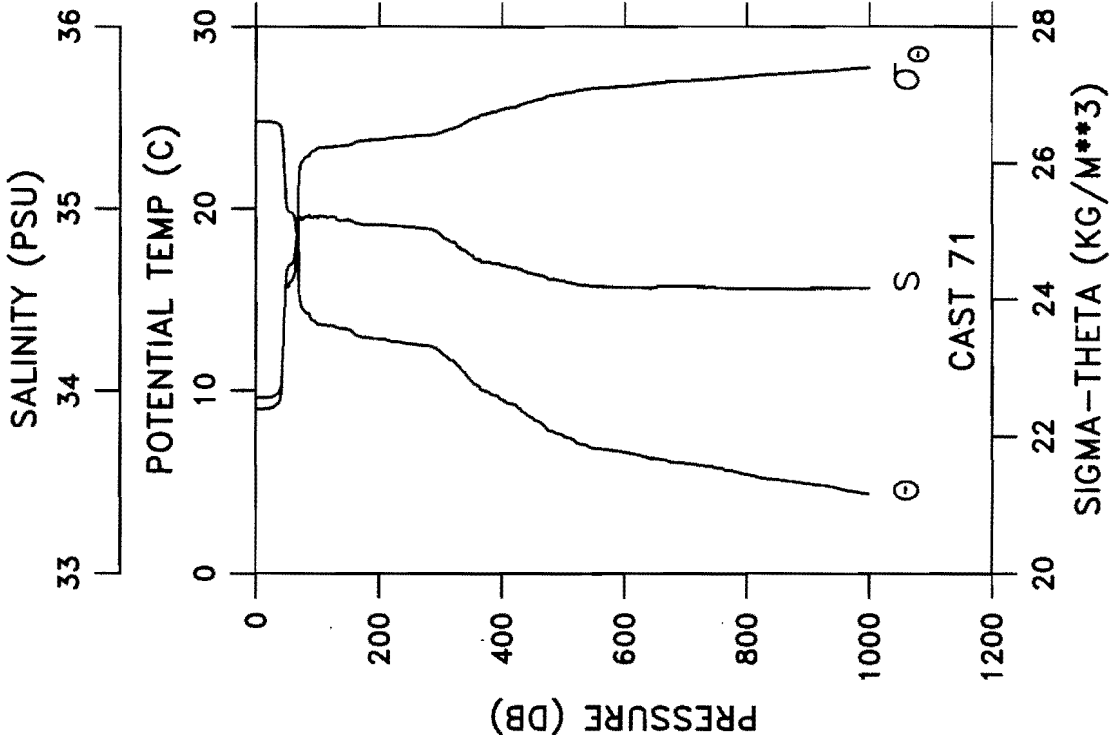
CAST GP8-99-RB-0061 DATE 13 NOV 99 TIME 1324 GMT
 LAT 3 00.0N LONG 110 00.0W WEATHER 2 SEA STATE 4
 BAROMETER 14 WIND DIR 148 T SPD 16 KT VISIBILITY 8
 CLOUD 7 AMOUNT 7 DRY 23.2 WET 20.7 DEPTH 3883 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.498	33.971	22.716	0.000
10	24.501	33.970	22.715	0.051
20	24.500	33.970	22.715	0.103
30	24.482	33.974	22.723	0.154
40	24.458	33.977	22.733	0.205
50	24.383	33.987	22.763	0.256
60	22.042	34.458	23.796	0.305
70	18.768	34.714	24.862	0.340
80	15.669	34.917	25.759	0.368
90	14.708	34.939	25.989	0.387
100	14.231	34.944	26.096	0.407
110	13.672	34.936	26.207	0.426
120	13.524	34.945	26.244	0.444
130	13.237	34.918	26.282	0.462
140	13.210	34.920	26.289	0.480
150	12.982	34.913	26.330	0.497
160	12.940	34.910	26.336	0.514
170	12.898	34.909	26.344	0.531
180	12.810	34.907	26.360	0.549
190	12.766	34.906	26.367	0.566
200	12.758	34.906	26.369	0.583
250	12.583	34.895	26.395	0.667
300	11.424	34.791	26.536	0.750
350	10.519	34.738	26.658	0.825
400	8.992	34.665	26.857	0.893
450	8.270	34.634	26.946	0.954
500	7.458	34.598	27.038	1.011
550	6.862	34.579	27.107	1.064
600	6.468	34.570	27.152	1.115
650	6.273	34.567	27.175	1.164
700	5.987	34.561	27.208	1.213
750	5.708	34.563	27.244	1.259
800	5.325	34.553	27.283	1.304
900	4.887	34.553	27.334	1.390
1000	4.493	34.561	27.384	1.472
1002	4.484	34.561	27.386	1.474



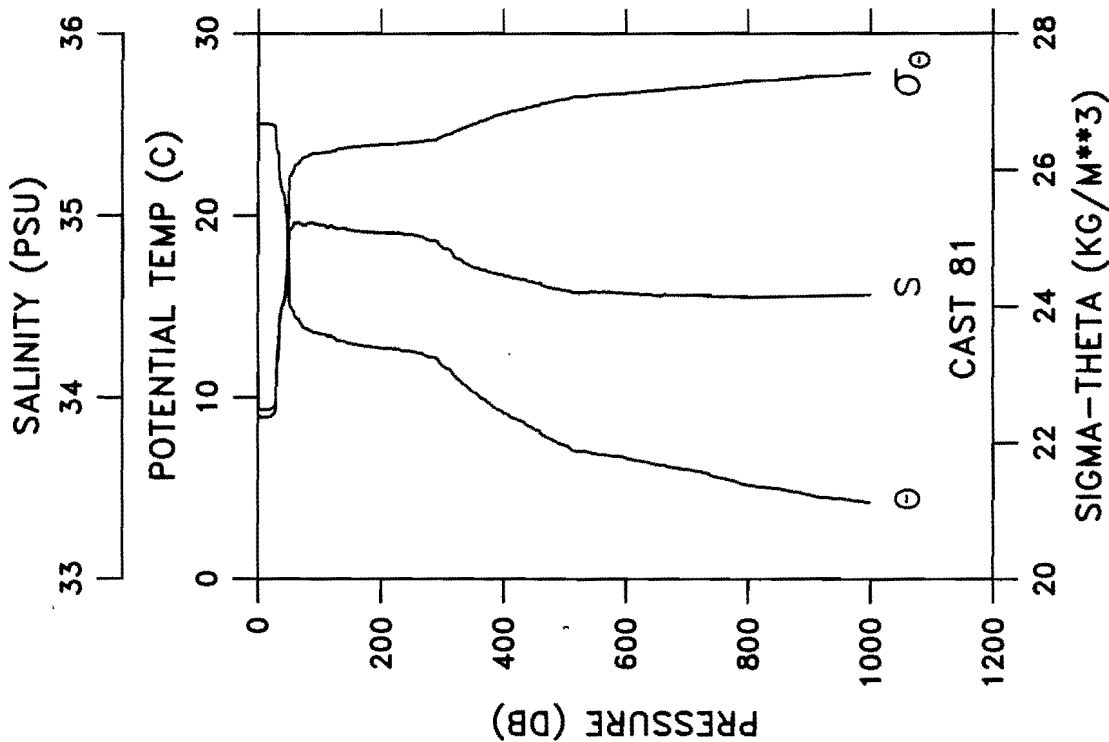
CAST GP8-99-RB-0071 DATE 13 NOV 99 TIME 1720 GMT
 LAT 2 30.0N LONG 110 08.6W WEATHER 2 SEA STATE 4
 BAROMETER 16 WIND DIR 145 T SPD 15 KT VISIBILITY 8
 CLOUD 7 AMOUNT 8 DRY 23.3 WET 20.2 DEPTH 3739 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.815	33.901	22.568	0.000
10	24.819	33.900	22.567	0.053
20	24.811	33.905	22.573	0.105
30	24.772	33.913	22.591	0.158
40	24.532	33.964	22.701	0.210
50	20.108	34.579	24.413	0.254
60	19.693	34.616	24.551	0.289
70	15.325	34.950	25.863	0.319
80	14.327	34.955	26.083	0.339
90	13.903	34.952	26.171	0.358
100	13.632	34.946	26.223	0.377
110	13.606	34.956	26.236	0.395
120	13.574	34.953	26.240	0.413
130	13.482	34.945	26.253	0.431
140	13.407	34.934	26.260	0.449
150	13.354	34.936	26.272	0.467
160	13.108	34.922	26.311	0.484
170	12.957	34.912	26.334	0.502
180	12.926	34.911	26.340	0.519
190	12.870	34.910	26.349	0.536
200	12.851	34.909	26.353	0.553
250	12.577	34.897	26.398	0.639
300	12.111	34.854	26.455	0.722
350	10.568	34.739	26.650	0.801
400	9.497	34.685	26.791	0.871
450	8.512	34.641	26.914	0.935
500	7.559	34.604	27.028	0.993
550	6.863	34.572	27.101	1.046
600	6.630	34.567	27.128	1.098
650	6.293	34.567	27.173	1.148
700	6.024	34.572	27.211	1.196
750	5.782	34.566	27.237	1.243
800	5.448	34.561	27.274	1.289
800	4.921	34.558	27.334	1.375
1000	4.357	34.565	27.403	1.456
1002	4.337	34.564	27.404	1.457



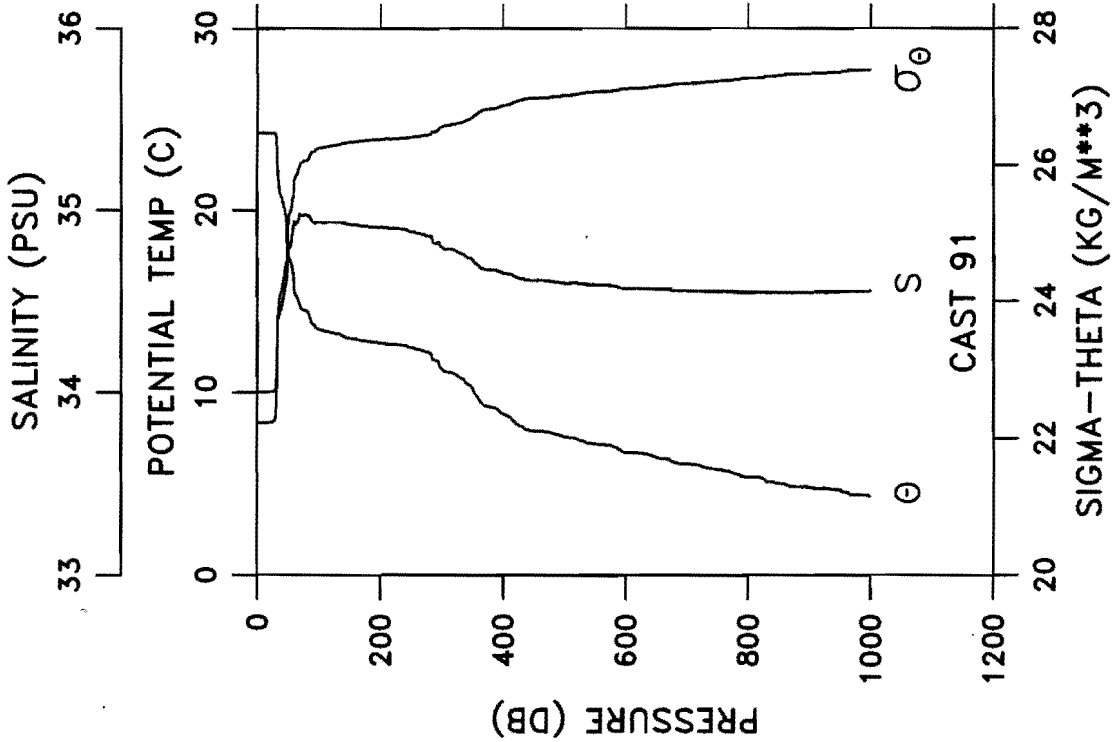
CAST 0P8-99-RB-0081 DATE 14 NOV 99 TIME 0454 GMT
 LAT 2 06.2N LONG 110 18.5W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 135 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 23.1 WET 20.2 DEPTH 3796 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.042	33.896	22.496	0.000
10	25.044	33.892	22.493	0.053
20	25.038	33.894	22.496	0.107
30	23.754	34.215	23.121	0.160
40	21.301	34.503	24.035	0.202
50	16.674	34.865	25.488	0.237
60	14.404	34.958	26.070	0.258
70	13.999	34.954	26.153	0.277
80	13.760	34.954	26.202	0.296
90	13.573	34.956	26.243	0.314
100	13.517	34.949	26.249	0.332
110	13.427	34.938	26.259	0.350
120	13.357	34.944	26.277	0.367
130	13.119	34.927	26.313	0.385
140	13.091	34.930	26.321	0.402
150	12.973	34.918	26.336	0.419
160	12.909	34.914	26.345	0.437
170	12.836	34.909	26.356	0.454
180	12.811	34.909	26.361	0.471
190	12.749	34.906	26.371	0.488
200	12.710	34.905	26.378	0.505
250	12.540	34.895	26.403	0.589
300	11.744	34.820	26.499	0.672
350	10.317	34.717	26.677	0.748
400	9.145	34.669	26.836	0.817
450	8.266	34.632	26.945	0.879
500	7.386	34.590	27.042	0.935
550	6.923	34.581	27.100	0.989
600	6.677	34.574	27.128	1.040
650	6.305	34.560	27.166	1.091
700	6.028	34.563	27.204	1.139
750	5.596	34.557	27.253	1.186
800	5.165	34.551	27.300	1.231
900	4.647	34.558	27.365	1.314
1000	4.226	34.567	27.418	1.392
1005	4.216	34.568	27.420	1.396

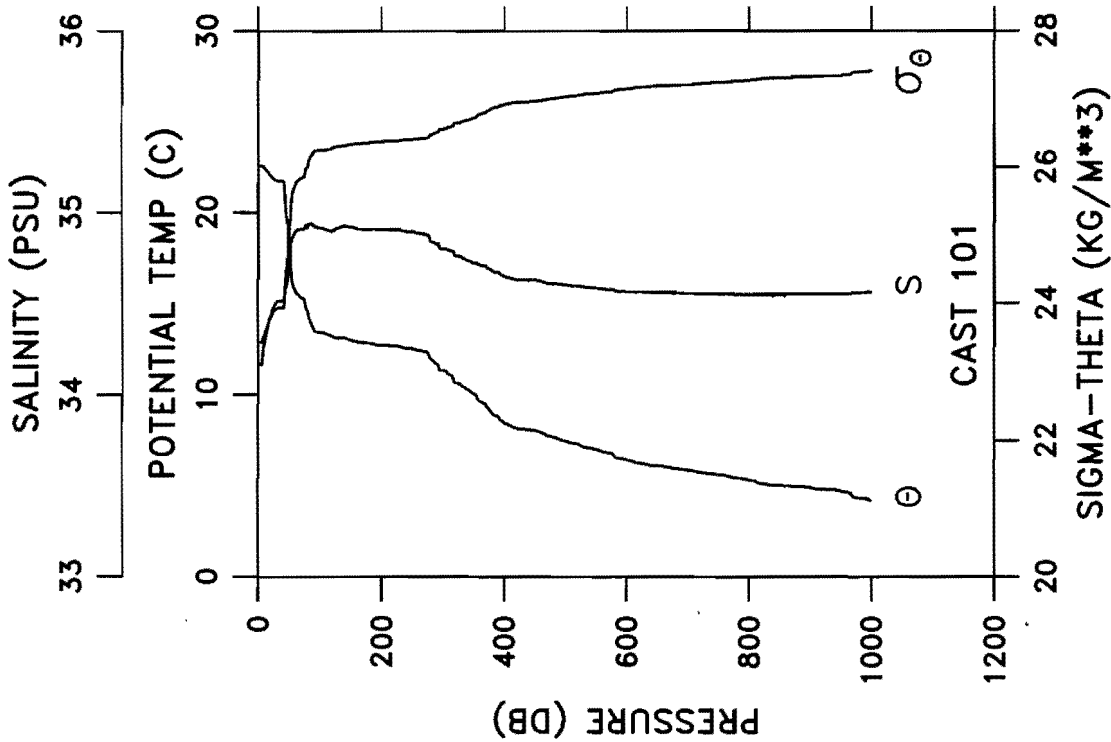


CAST GP8-99-RB-0091 DATE 14 NOV 99 TIME 1040 GMT
 LAT 1 29.9N LONG 110 07.3W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 145 T SPD 07 KT VISIBILITY 8
 CLOUD 8 AMOUNT 6 DRY 22.5 WET 19.5 DEPTH 3756 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.274	33.838	22.683	0.000
10	24.275	33.835	22.680	0.052
20	24.278	33.837	22.681	0.103
30	24.232	33.884	22.730	0.155
40	20.670	34.472	24.162	0.197
50	18.208	34.736	25.019	0.231
60	15.657	34.939	25.760	0.257
70	14.684	34.979	26.026	0.278
80	14.491	34.974	26.064	0.298
90	13.731	34.936	26.195	0.317
100	13.441	34.935	26.253	0.335
110	13.361	34.931	26.267	0.353
120	13.276	34.935	26.288	0.371
130	13.220	34.934	26.298	0.388
140	13.084	34.928	26.321	0.406
150	12.961	34.921	26.340	0.423
160	12.927	34.918	26.345	0.440
170	12.830	34.911	26.359	0.457
180	12.776	34.909	26.367	0.474
190	12.740	34.905	26.372	0.491
200	12.702	34.906	26.380	0.508
250	12.446	34.881	26.411	0.593
300	11.281	34.795	26.565	0.674
350	10.232	34.726	26.699	0.749
400	8.829	34.654	26.875	0.814
450	7.907	34.615	26.985	0.873
500	7.570	34.598	27.022	0.930
550	7.172	34.591	27.073	0.985
600	6.718	34.571	27.119	1.038
650	6.437	34.566	27.154	1.089
700	6.080	34.559	27.194	1.138
750	5.765	34.554	27.230	1.186
800	5.365	34.548	27.274	1.232
900	4.817	34.549	27.339	1.318
1000	4.296	34.558	27.404	1.398
1014	4.151	34.560	27.420	1.409



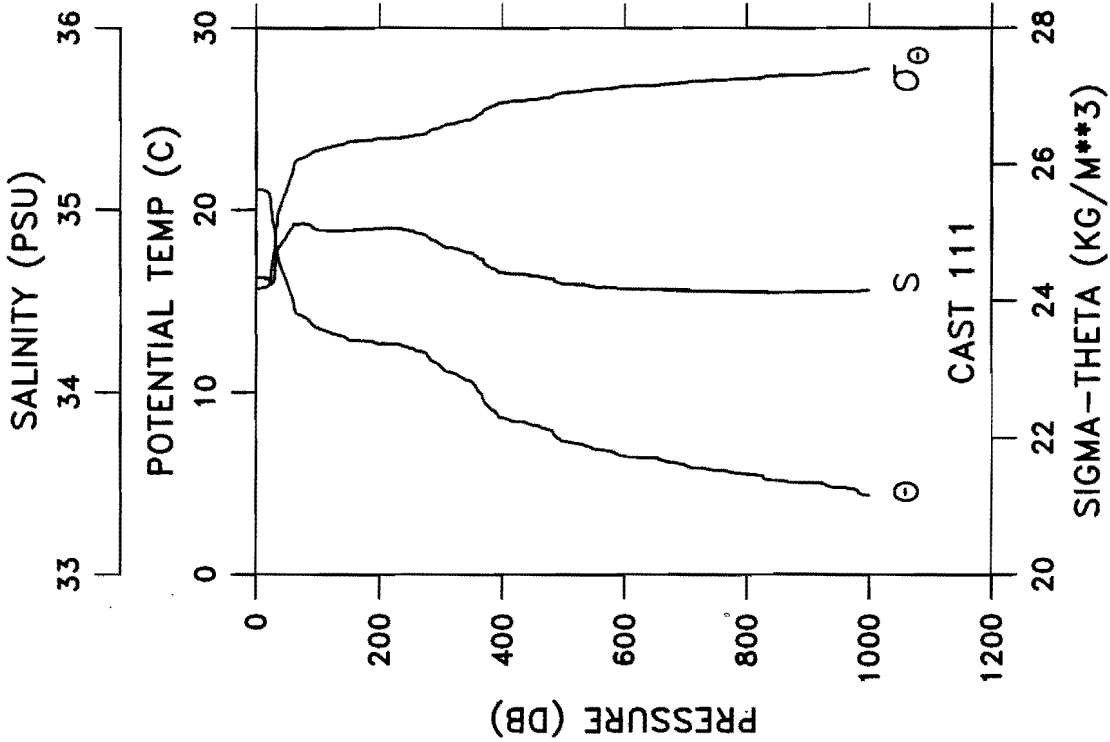
CAST GP8-99-RB-0101 DATE 14 NOV 99 TIME 1415 GMT
 LAT 1 00.1N LONG 110 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 120 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 7 DRY 21.7 WET 20.0 DEPTH 3812 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.550	34.165	23.430	0.000
10	22.452	34.279	23.545	0.044
20	22.018	34.428	23.780	0.086
30	21.732	34.504	23.917	0.127
40	21.692	34.511	23.934	0.167
50	18.314	34.713	24.976	0.202
60	15.687	34.888	25.734	0.227
70	15.281	34.905	25.837	0.249
80	14.557	34.916	26.005	0.270
90	13.584	34.925	26.216	0.289
100	13.411	34.913	26.243	0.307
110	13.331	34.904	26.252	0.325
120	13.194	34.896	26.274	0.343
130	13.101	34.913	26.306	0.360
140	13.108	34.925	26.314	0.378
150	12.985	34.919	26.333	0.395
160	12.897	34.909	26.344	0.412
170	12.850	34.906	26.351	0.429
180	12.808	34.905	26.359	0.446
190	12.731	34.907	26.375	0.463
200	12.704	34.904	26.379	0.480
250	12.523	34.894	26.406	0.565
300	11.328	34.799	26.559	0.646
350	10.069	34.724	26.725	0.719
400	8.492	34.649	26.923	0.784
450	8.070	34.627	26.971	0.842
500	7.468	34.601	27.038	0.899
550	7.024	34.584	27.088	0.953
600	6.447	34.567	27.153	1.004
650	6.115	34.559	27.190	1.053
700	5.881	34.555	27.216	1.101
750	5.640	34.551	27.243	1.147
800	5.336	34.548	27.277	1.192
900	4.924	34.550	27.328	1.278
1000	4.203	34.561	27.416	1.359
1003	4.193	34.558	27.415	1.362

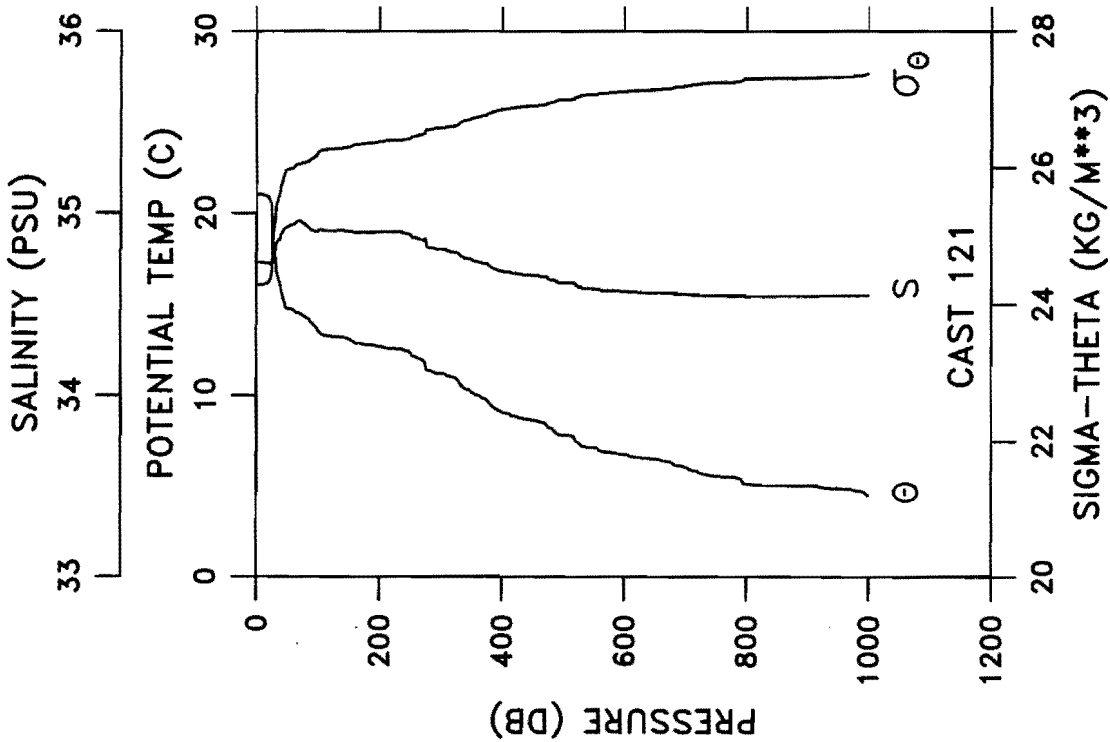
CAST GP8-99-RB-0111 DATE 14 NOV 99 TIME 1741 GMT
 LAT 0 30.3N LONG 109 59.1W WEATHER 2 SEA STATE 3
 BAROMETER 16 WIND DIR 100 T SPD 11 KT VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 23.0 WET 20.9 DEPTH 3693 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.119	34.630	24.181	0.000
10	21.079	34.628	24.191	0.037
20	20.921	34.620	24.227	0.074
30	18.954	34.634	24.755	0.109
40	16.855	34.809	25.403	0.137
50	15.973	34.865	25.651	0.161
60	14.938	34.915	25.921	0.184
70	14.222	34.922	26.080	0.203
80	14.070	34.921	26.112	0.223
90	13.743	34.908	26.170	0.242
100	13.522	34.892	26.204	0.260
110	13.376	34.888	26.231	0.278
120	13.260	34.884	26.251	0.296
130	13.140	34.883	26.275	0.314
140	13.046	34.885	26.295	0.332
150	12.859	34.887	26.334	0.349
160	12.827	34.890	26.343	0.366
170	12.804	34.892	26.349	0.383
180	12.795	34.895	26.353	0.401
190	12.757	34.896	26.361	0.418
200	12.659	34.898	26.383	0.435
250	12.427	34.885	26.418	0.519
300	11.417	34.810	26.552	0.600
350	10.587	34.765	26.667	0.675
400	8.633	34.655	26.906	0.740
450	8.222	34.636	26.955	0.800
500	7.318	34.591	27.052	0.857
550	6.865	34.576	27.103	0.911
600	6.488	34.566	27.147	0.962
650	6.388	34.564	27.158	1.012
700	5.995	34.556	27.202	1.061
750	5.720	34.551	27.233	1.108
800	5.517	34.548	27.256	1.154
900	5.038	34.548	27.313	1.242
1000	4.345	34.557	27.398	1.325
1003	4.339	34.558	27.399	1.327

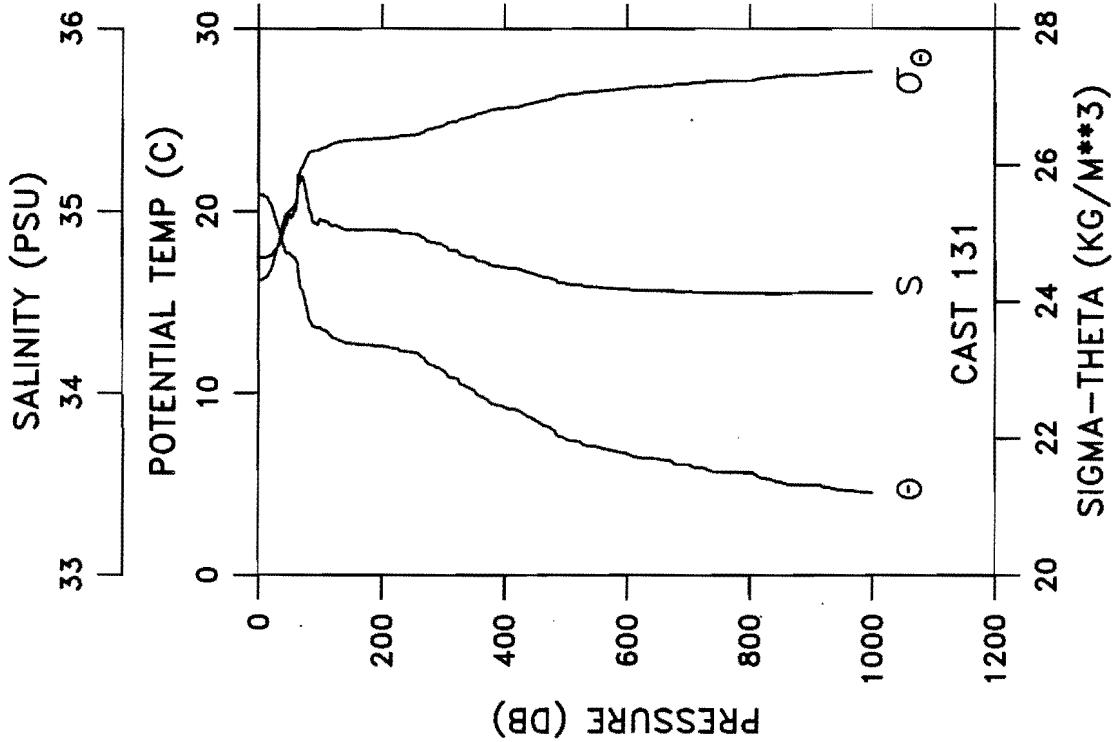


CAST 088-99-RB-0121 DATE 15 NOV 99 TIME 0603 GMT
 LAT 0 03.2N LONG 110 03.1W WEATHER 2 SEA STATE 3
 BAROMETER 16 WIND DIR 095 T SPD 10 KT VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 21.0 WET 20.0 DEPTH 3734 M

PRES (DB)	POT TEMP (C)	SAL (FSU)	SIG-TH	DELTA-D (DYN-M)
0	21.027	34.732	24.284	0.000
10	21.001	34.727	24.288	0.036
20	20.831	34.726	24.333	0.073
30	17.721	34.787	25.178	0.105
40	15.770	34.885	25.712	0.130
50	14.759	34.924	25.967	0.152
60	14.672	34.938	25.996	0.172
70	14.518	34.960	26.046	0.192
80	14.294	34.934	26.075	0.211
90	13.982	34.907	26.124	0.231
100	13.523	34.903	26.212	0.249
110	13.296	34.904	26.259	0.267
120	13.242	34.902	26.269	0.285
130	13.215	34.902	26.275	0.303
140	13.194	34.906	26.282	0.321
150	13.092	34.899	26.297	0.338
160	12.880	34.891	26.333	0.356
170	12.843	34.894	26.342	0.373
180	12.793	34.893	26.352	0.390
190	12.762	34.893	26.358	0.407
200	12.695	34.897	26.375	0.424
250	12.369	34.883	26.428	0.508
300	11.217	34.803	26.563	0.587
350	10.193	34.743	26.719	0.661
400	9.106	34.682	26.852	0.727
450	8.656	34.660	26.907	0.790
500	7.848	34.617	26.996	0.849
550	7.155	34.586	27.071	0.905
600	6.771	34.572	27.113	0.957
650	6.510	34.565	27.143	1.008
700	6.049	34.557	27.197	1.058
750	5.571	34.549	27.250	1.104
800	5.126	34.545	27.300	1.149
850	5.024	34.547	27.314	1.235
900	4.465	34.553	27.381	1.319
1000	2.859	34.605	27.583	1.668
1500	2.152	34.639	27.670	1.950
2000	1.710	34.660	27.722	2.201
2500	1.485	34.672	27.748	2.436
3000	1.243	34.685	27.775	2.661
3500	1.173	34.688	27.783	2.782
3777				

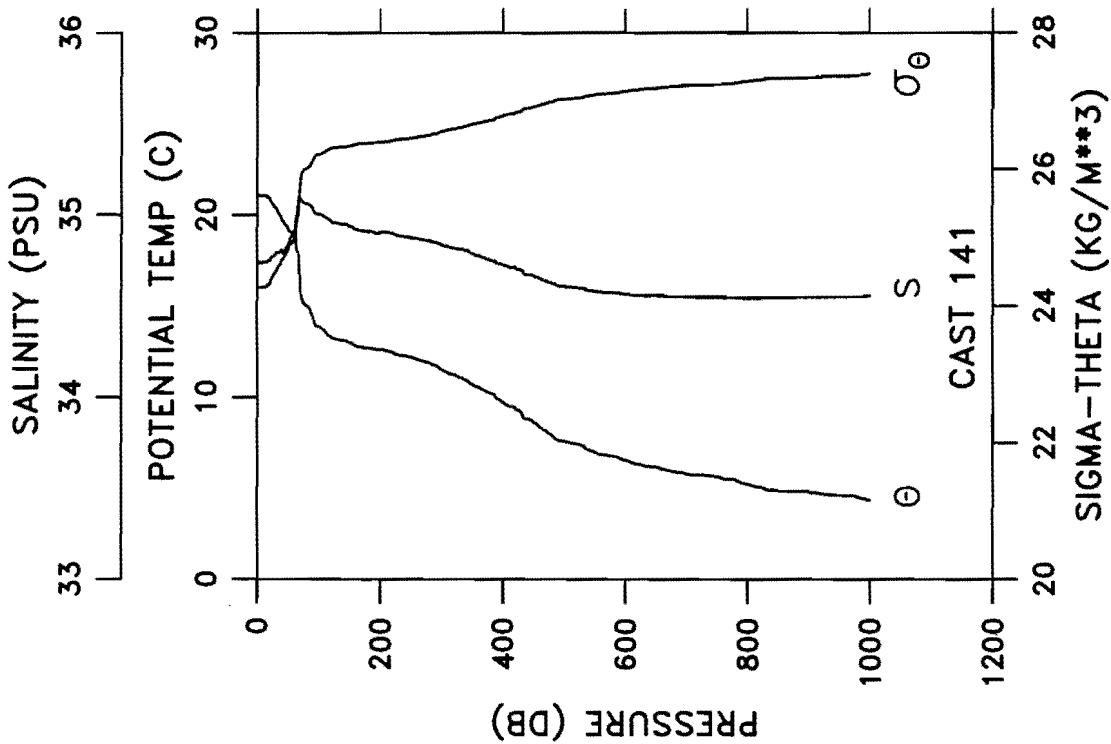


CAST GP8-99-RB-0131 DATE 16 NOV 99 TIME 0832 GMT
 LAT 0 29.6S LONG 110 00.4W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 115 T SPD 09 KT VISIBILITY 8
 CLOUD 3 AMOUNT 2 DRY 21.0 WET 19.2 DEPTH 3647 M



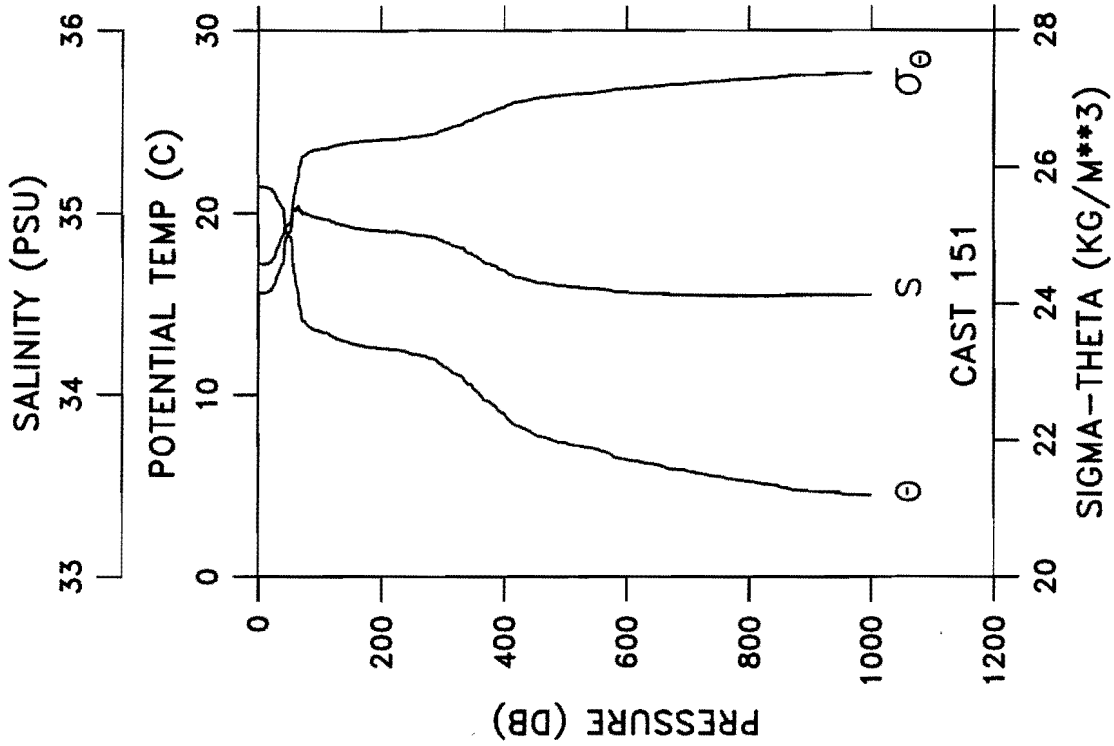
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.921	34.745	24.322	0.000
10	20.814	34.743	24.350	0.036
20	20.425	34.753	24.462	0.071
30	19.318	34.800	24.788	0.104
40	18.139	34.882	25.148	0.134
50	17.690	34.986	25.339	0.161
60	17.321	35.001	25.439	0.188
70	15.695	35.182	25.958	0.210
80	14.385	35.050	26.145	0.230
90	13.659	34.942	26.214	0.248
100	13.597	34.957	26.238	0.266
110	13.396	34.943	26.269	0.284
120	13.061	34.919	26.318	0.302
130	12.924	34.916	26.344	0.319
140	12.782	34.900	26.360	0.336
150	12.729	34.897	26.368	0.353
160	12.697	34.896	26.373	0.370
170	12.662	34.896	26.380	0.387
180	12.651	34.900	26.386	0.403
190	12.603	34.897	26.393	0.420
200	12.584	34.896	26.396	0.437
250	12.240	34.874	26.446	0.520
300	11.234	34.811	26.586	0.599
350	10.154	34.743	26.725	0.671
400	9.230	34.692	26.840	0.737
450	8.516	34.652	26.923	0.800
500	7.493	34.601	27.035	0.858
550	7.043	34.582	27.084	0.912
600	6.661	34.570	27.126	0.964
650	6.367	34.562	27.160	1.014
700	6.054	34.557	27.196	1.063
750	5.646	34.550	27.241	1.110
800	5.598	34.550	27.247	1.156
900	4.937	34.549	27.325	1.243
1000	4.508	34.553	27.376	1.326
1002	4.502	34.553	27.377	1.327

CAST GP8-99-RB-0141 DATE 16 NOV 99 TIME 1223 GMT
 LAT 0 59.7S LONG 110 00.0W WEATHER 2 SEA STATE 3
 BAROMETER 13 WIND DIR 100 T SPD 07 KT VISIBILITY 8
 CLOUD 3 AMOUNT 7 DRY 21.5 WET 20.0 DEPTH 3989 M



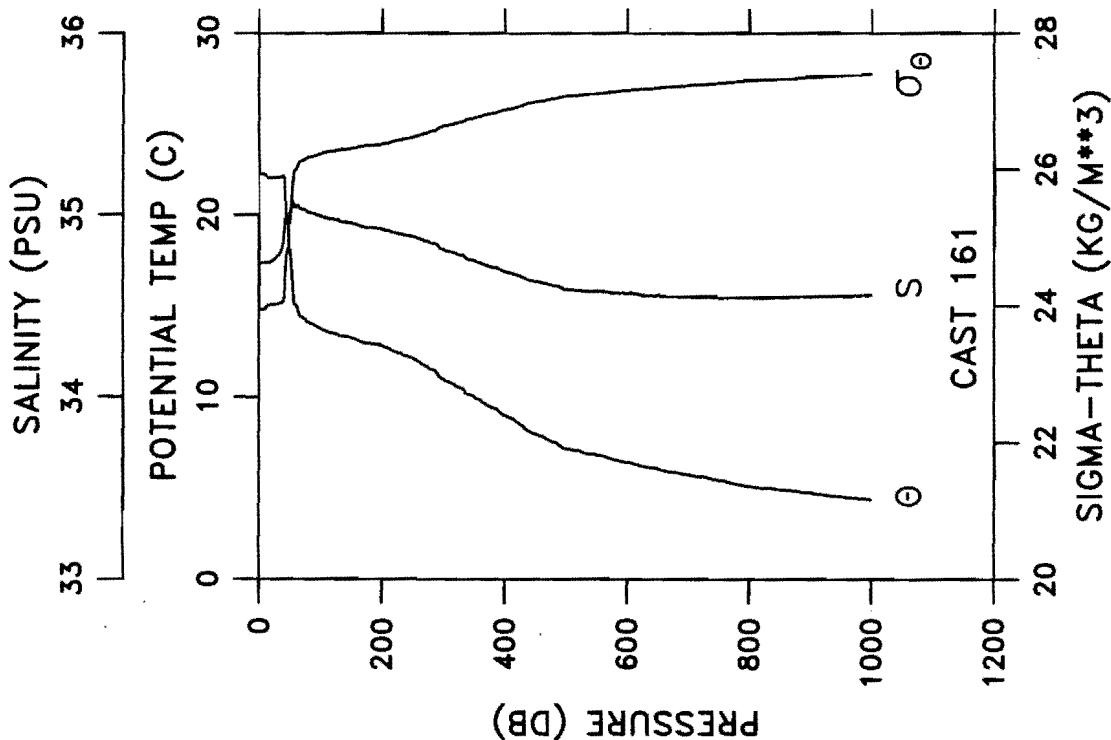
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.069	34.742	24.280	0.000
10	21.052	34.741	24.284	0.036
20	20.912	34.750	24.329	0.073
30	20.371	34.788	24.503	0.108
40	19.741	34.805	24.682	0.141
50	19.207	34.832	24.841	0.173
60	18.916	34.907	24.973	0.204
70	15.924	35.083	25.830	0.230
80	15.044	35.062	26.011	0.251
90	14.390	35.033	26.130	0.270
100	13.873	35.003	26.216	0.289
110	13.598	34.988	26.263	0.307
120	13.286	34.963	26.307	0.324
130	13.172	34.953	26.322	0.342
140	13.119	34.948	26.329	0.359
150	12.990	34.935	26.345	0.376
160	12.819	34.919	26.367	0.393
170	12.736	34.912	26.378	0.410
180	12.690	34.907	26.383	0.427
190	12.631	34.903	26.391	0.444
200	12.607	34.902	26.396	0.461
250	12.200	34.875	26.454	0.543
300	11.507	34.835	26.554	0.623
350	10.709	34.786	26.662	0.698
400	9.740	34.726	26.783	0.769
450	8.652	34.668	26.913	0.833
500	7.593	34.610	27.028	0.891
550	6.991	34.582	27.091	0.945
600	6.548	34.567	27.139	0.997
650	6.145	34.560	27.186	1.046
700	5.772	34.551	27.226	1.093
750	5.629	34.548	27.242	1.140
800	5.212	34.544	27.289	1.185
900	4.781	34.551	27.344	1.269
1000	4.335	34.557	27.398	1.349
1002	4.325	34.557	27.400	1.351

CAST GP8-99-RB-0151 DATE 16 NOV 99 TIME 1550 GMT
 LAT 1 30.0S LONG 109 59.0W WEATHER 1 SEA STATE 3
 BAROMETER 16 WIND DIR 110 T SPD 09 KT VISIBILITY 8
 CLOUD 3 AMOUNT 2 DRY 23.1 WET 20.8 DEPTH 3874 M



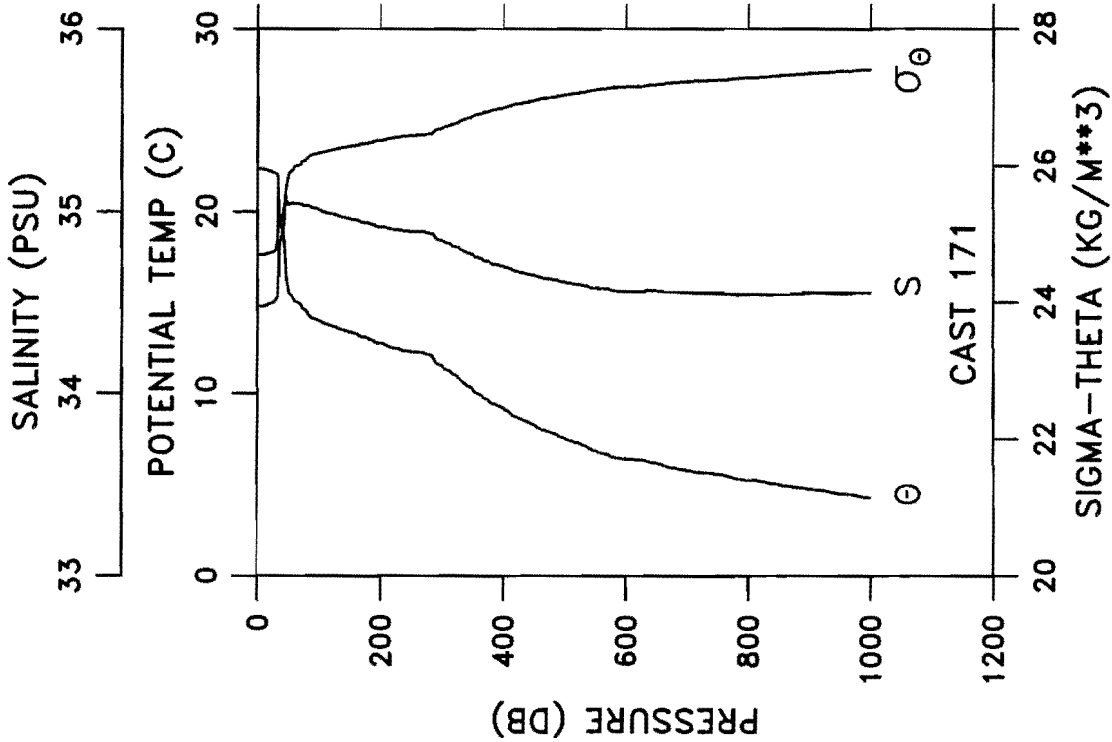
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.438	34.722	24.164	0.000
10	21.438	34.720	24.163	0.037
20	21.331	34.729	24.198	0.075
30	20.795	34.798	24.397	0.111
40	20.312	34.875	24.585	0.146
50	18.725	34.942	25.047	0.176
60	16.529	35.020	25.641	0.203
70	14.331	35.014	26.129	0.224
80	13.863	34.992	26.210	0.243
90	13.608	34.978	26.253	0.261
100	13.501	34.971	26.269	0.278
110	13.423	34.965	26.281	0.296
120	13.233	34.952	26.310	0.314
130	13.090	34.940	26.329	0.331
140	12.955	34.931	26.349	0.348
150	12.854	34.923	26.363	0.365
160	12.785	34.917	26.372	0.382
170	12.713	34.913	26.383	0.399
180	12.647	34.908	26.392	0.416
190	12.610	34.905	26.397	0.432
200	12.561	34.901	26.404	0.449
250	12.239	34.880	26.451	0.532
300	11.583	34.845	26.548	0.613
350	10.340	34.767	26.712	0.687
400	8.969	34.686	26.878	0.753
450	7.821	34.623	27.005	0.812
500	7.346	34.599	27.054	0.867
550	6.981	34.583	27.093	0.920
600	6.423	34.565	27.155	0.971
650	6.145	34.556	27.184	1.020
700	5.791	34.549	27.223	1.068
750	5.500	34.546	27.256	1.114
800	5.242	34.545	27.286	1.158
900	4.707	34.549	27.352	1.243
1000	4.489	34.551	27.377	1.324
1002	4.486	34.550	27.377	1.325

CAST GP8-99-RB-0161 DATE 17 NOV 99 TIME 0204 GMT
 LAT 2 03.0S LONG 109 57.9W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 125 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 22.0 WET 20.5 DEPTH 3929 M



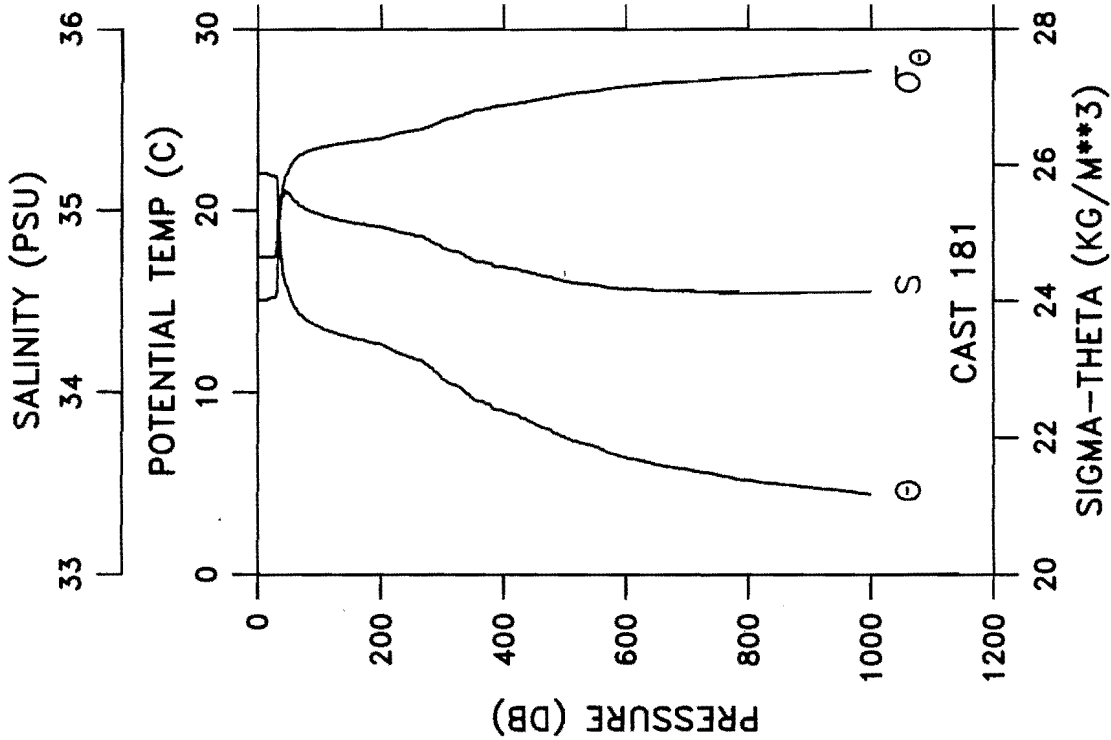
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.244	34.736	23.950	0.000
10	22.211	34.735	23.959	0.039
20	22.027	34.744	24.017	0.079
30	22.055	34.774	24.032	0.117
40	22.141	34.873	24.083	0.156
50	18.183	35.000	25.228	0.189
60	15.044	35.043	25.997	0.211
70	14.403	35.030	26.125	0.231
80	14.100	35.012	26.176	0.249
90	13.960	35.004	26.199	0.268
100	13.761	34.992	26.232	0.286
110	13.614	34.981	26.254	0.304
120	13.511	34.976	26.271	0.322
130	13.363	34.966	26.290	0.339
140	13.336	34.959	26.294	0.357
150	13.238	34.953	26.309	0.375
160	13.127	34.943	26.323	0.392
170	12.991	34.933	26.343	0.409
180	12.949	34.928	26.349	0.426
190	12.896	34.926	26.357	0.444
200	12.805	34.919	26.370	0.461
250	12.125	34.881	26.473	0.544
300	10.948	34.811	26.638	0.621
350	10.025	34.749	26.752	0.692
400	8.990	34.687	26.875	0.757
450	7.987	34.633	26.988	0.817
500	7.178	34.590	27.071	0.872
550	6.828	34.581	27.112	0.925
600	6.415	34.567	27.157	0.975
650	6.078	34.561	27.196	1.024
700	5.728	34.550	27.231	1.071
750	5.415	34.545	27.266	1.116
800	5.090	34.546	27.305	1.160
900	4.733	34.552	27.350	1.244
1000	4.351	34.560	27.399	1.324
1003	4.329	34.559	27.400	1.326

CAST GP8-99-RB-0171 DATE 17 NOV 99 TIME 0536 GMT
 LAT 2 30.0S LONG 109 59.0W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 120 T SPD 09 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 22.6 WET 20.9 DEPTH 3904 M



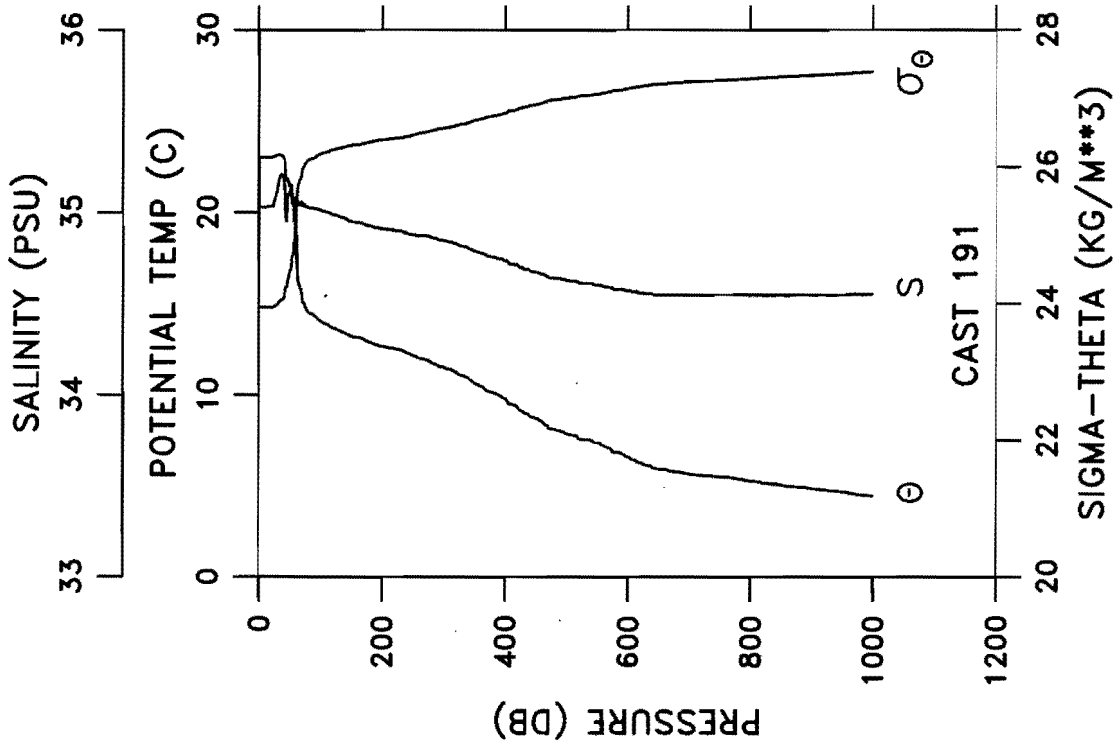
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.334	34.767	23.948	0.000
10	22.333	34.764	23.947	0.040
20	22.221	34.774	23.985	0.079
30	22.087	34.799	24.042	0.118
40	18.976	34.978	25.012	0.151
50	15.635	35.042	25.863	0.177
60	15.070	35.044	25.991	0.198
70	14.913	35.041	26.023	0.218
80	14.516	35.033	26.103	0.237
90	14.148	35.022	26.173	0.256
100	14.007	35.009	26.193	0.275
110	13.851	34.996	26.216	0.293
120	13.726	34.987	26.235	0.311
130	13.568	34.976	26.259	0.329
140	13.478	34.968	26.272	0.347
150	13.362	34.960	26.289	0.365
160	13.281	34.954	26.301	0.382
170	13.119	34.941	26.324	0.400
180	13.021	34.938	26.341	0.417
190	12.868	34.928	26.364	0.434
200	12.777	34.917	26.374	0.451
250	12.292	34.891	26.449	0.534
300	11.512	34.840	26.557	0.615
350	10.243	34.764	26.726	0.688
400	9.187	34.688	26.852	0.755
450	8.281	34.652	26.958	0.816
500	7.529	34.612	27.038	0.872
550	6.837	34.579	27.110	0.926
600	6.395	34.561	27.155	0.976
650	6.157	34.564	27.188	1.025
700	5.748	34.552	27.231	1.073
750	5.552	34.549	27.252	1.118
800	5.219	34.544	27.289	1.163
900	4.732	34.551	27.350	1.248
1000	4.266	34.552	27.402	1.328
1003	4.265	34.551	27.401	1.330

CAST GP8-99-RB-0181 DATE 17 NOV 99 TIME 0859 GMT
 LAT 3 00.1S LONG 110 00.1W WEATHER 1 SEA STATE 3
 BAROMETER 16 WIND DIR 120 T SPD 07 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 22.6 WET 20.4 DEPTH 3750 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.033	34.743	24.014	0.000
10	22.029	34.741	24.014	0.039
20	21.947	34.743	24.039	0.078
30	21.821	34.763	24.089	0.116
40	16.788	35.087	25.632	0.146
50	15.490	35.091	25.935	0.168
60	14.655	35.048	26.085	0.188
70	14.255	35.023	26.152	0.207
80	13.955	35.004	26.200	0.226
90	13.760	34.991	26.231	0.244
100	13.607	34.978	26.253	0.262
110	13.427	34.965	26.279	0.279
120	13.337	34.958	26.293	0.297
130	13.182	34.947	26.316	0.314
140	13.124	34.941	26.323	0.332
150	13.014	34.933	26.339	0.349
160	12.930	34.927	26.351	0.366
170	12.896	34.925	26.356	0.383
180	12.764	34.916	26.375	0.400
190	12.697	34.912	26.385	0.417
200	12.644	34.909	26.394	0.434
250	11.919	34.866	26.501	0.515
300	10.746	34.790	26.658	0.592
350	9.684	34.728	26.793	0.661
400	8.958	34.693	26.885	0.725
450	8.297	34.650	26.954	0.786
500	7.528	34.610	27.037	0.843
550	7.025	34.588	27.091	0.897
600	6.431	34.568	27.155	0.948
650	6.039	34.561	27.201	0.997
700	5.789	34.556	27.229	1.044
750	5.482	34.550	27.261	1.089
800	5.210	34.547	27.292	1.133
900	4.798	34.551	27.343	1.218
1000	4.408	34.552	27.387	1.300
1004	4.401	34.552	27.387	1.303

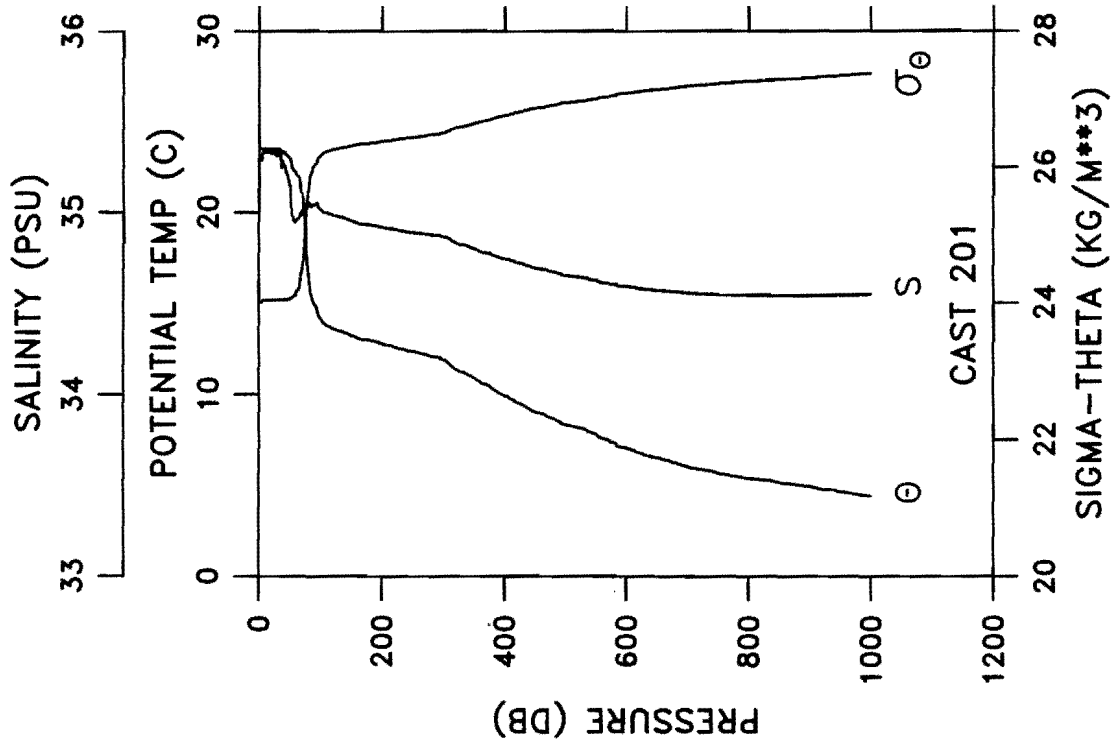
CAST GP8-99-RB-0191 DATE 17 NOV 99 TIME 1444 GMT
 LAT 4 00.0S LONG 110 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 15 WIND DIR 120 T SPD 13 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 23.8 WET 20.3 DEPTH 3811 M



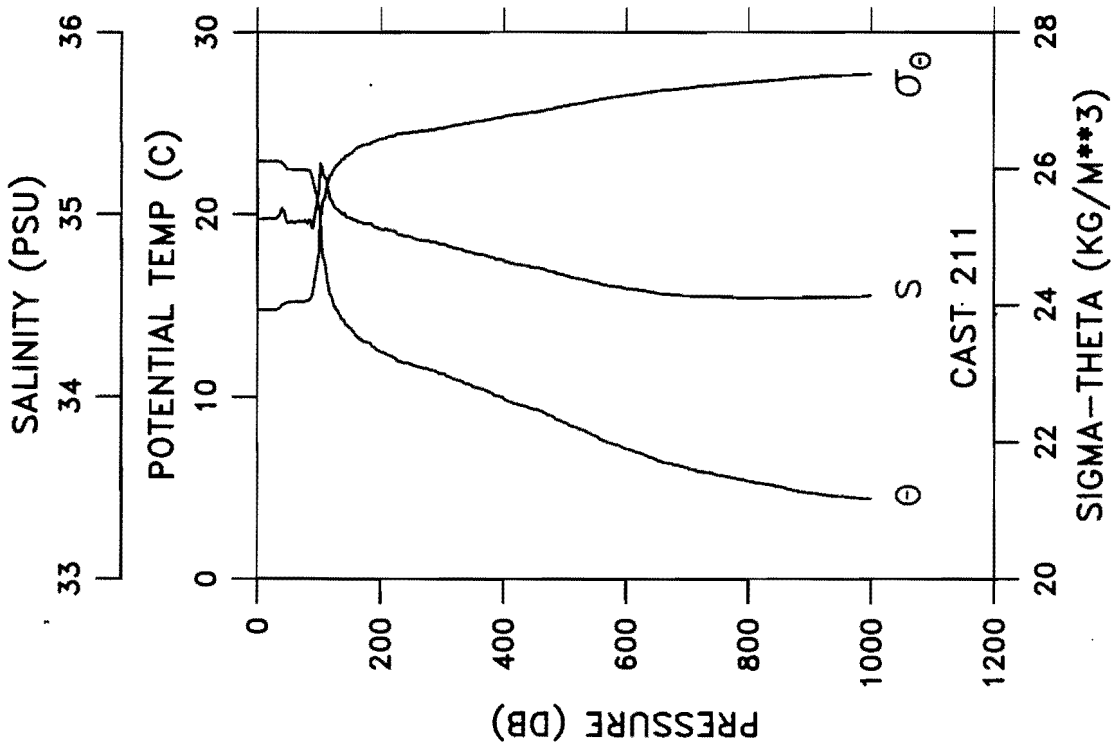
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.022	35.029	23.951	0.000
10	23.020	35.028	23.951	0.039
20	23.028	35.033	23.952	0.079
30	23.134	35.123	23.990	0.118
40	23.010	35.190	24.076	0.157
50	21.404	35.114	24.471	0.194
60	18.173	35.067	25.282	0.226
70	15.263	35.048	25.952	0.248
80	14.512	35.026	26.099	0.268
90	14.339	35.020	26.131	0.287
100	14.031	35.011	26.190	0.306
110	13.866	35.001	26.217	0.324
120	13.669	34.987	26.247	0.342
130	13.501	34.976	26.274	0.360
140	13.355	34.966	26.296	0.378
150	13.214	34.951	26.312	0.396
160	13.150	34.944	26.320	0.413
170	13.033	34.935	26.337	0.430
180	12.883	34.926	26.360	0.447
190	12.750	34.917	26.379	0.464
200	12.652	34.910	26.393	0.481
250	12.148	34.875	26.464	0.564
300	11.499	34.845	26.563	0.643
350	10.626	34.787	26.677	0.718
400	9.786	34.733	26.780	0.788
450	8.706	34.672	26.909	0.851
500	7.847	34.627	27.004	0.910
550	7.341	34.600	27.056	0.966
600	6.554	34.570	27.141	1.018
650	5.905	34.549	27.209	1.067
700	5.636	34.546	27.240	1.114
750	5.481	34.552	27.263	1.159
800	5.259	34.546	27.285	1.203
900	4.844	34.547	27.334	1.289
1000	4.425	34.551	27.384	1.371
1002	4.418	34.551	27.385	1.372

CAST GP8-99-RB-0201 DATE 18 NOV 99 TIME 0511 GMT
 LAT 4 59.9S LONG 110 00.4W WEATHER 1 SEA STATE 4
 BAROMETER 14 WIND DIR 110 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 23.3 WET 20.3 DEPTH 3522 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.502	35.290	24.009	0.000
10	23.495	35.330	24.042	0.039
20	23.473	35.321	24.041	0.077
30	23.509	35.335	24.041	0.116
40	23.314	35.265	24.045	0.155
50	22.977	35.151	24.057	0.194
60	22.146	34.954	24.144	0.232
70	21.010	35.011	24.501	0.289
80	16.632	35.043	25.635	0.298
90	14.901	35.041	26.026	0.319
100	14.124	35.015	26.173	0.338
110	13.787	34.997	26.230	0.357
120	13.590	34.983	26.260	0.375
130	13.482	34.976	26.277	0.393
140	13.371	34.966	26.292	0.410
150	13.211	34.952	26.314	0.428
160	13.059	34.939	26.334	0.445
170	12.989	34.933	26.344	0.462
180	12.844	34.931	26.351	0.479
190	12.878	34.925	26.360	0.497
200	12.753	34.917	26.378	0.514
250	12.329	34.889	26.440	0.597
300	11.878	34.865	26.508	0.678
350	10.889	34.798	26.639	0.755
400	9.909	34.742	26.766	0.826
450	9.031	34.691	26.871	0.891
500	8.334	34.651	26.950	0.953
550	7.808	34.626	27.009	1.012
600	7.044	34.591	27.091	1.066
650	6.513	34.568	27.145	1.118
700	6.035	34.554	27.196	1.168
750	5.672	34.545	27.235	1.215
800	5.365	34.541	27.268	1.261
900	4.951	34.539	27.315	1.348
1000	4.409	34.547	27.382	1.431
1002	4.409	34.546	27.382	1.433

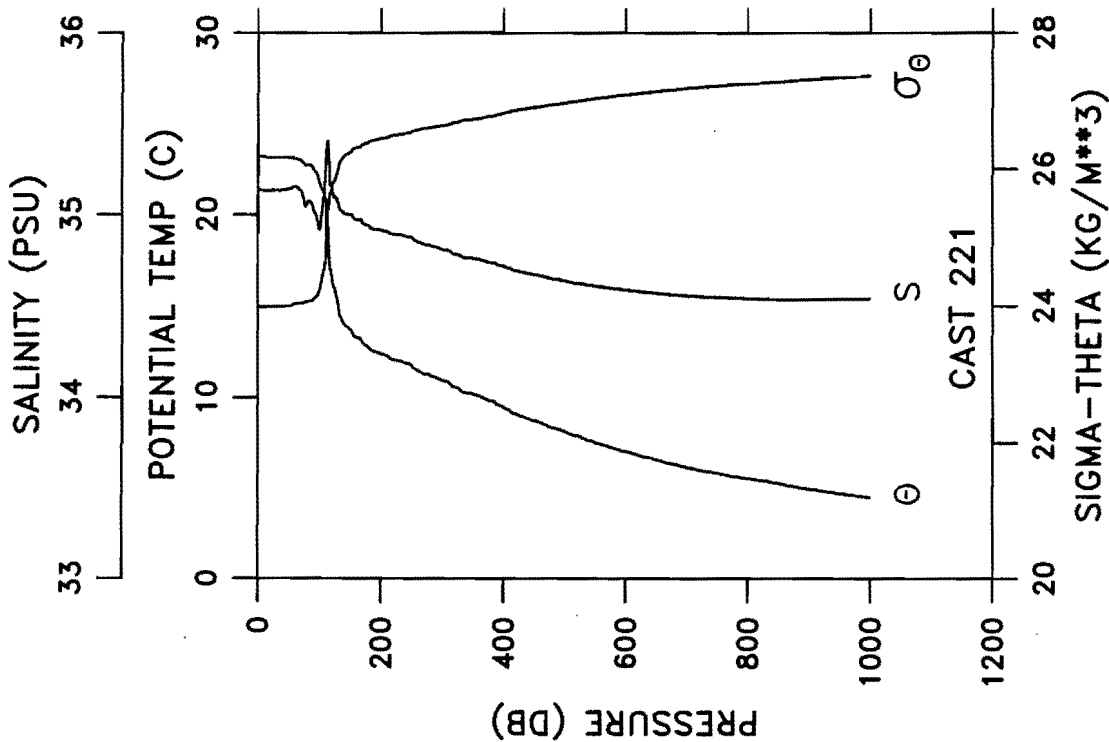


CAST GP8-99-RB-0211 DATE 18 NOV 99 TIME 1114 GMT
 LAT 6 00.0S LONG 110 00.0W WEATHER 0 SEA STATE 4
 BAROMETER 13 WIND DIR 095 T SPD 13 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 24.0 WET 21.0 DEPTH 3556 M



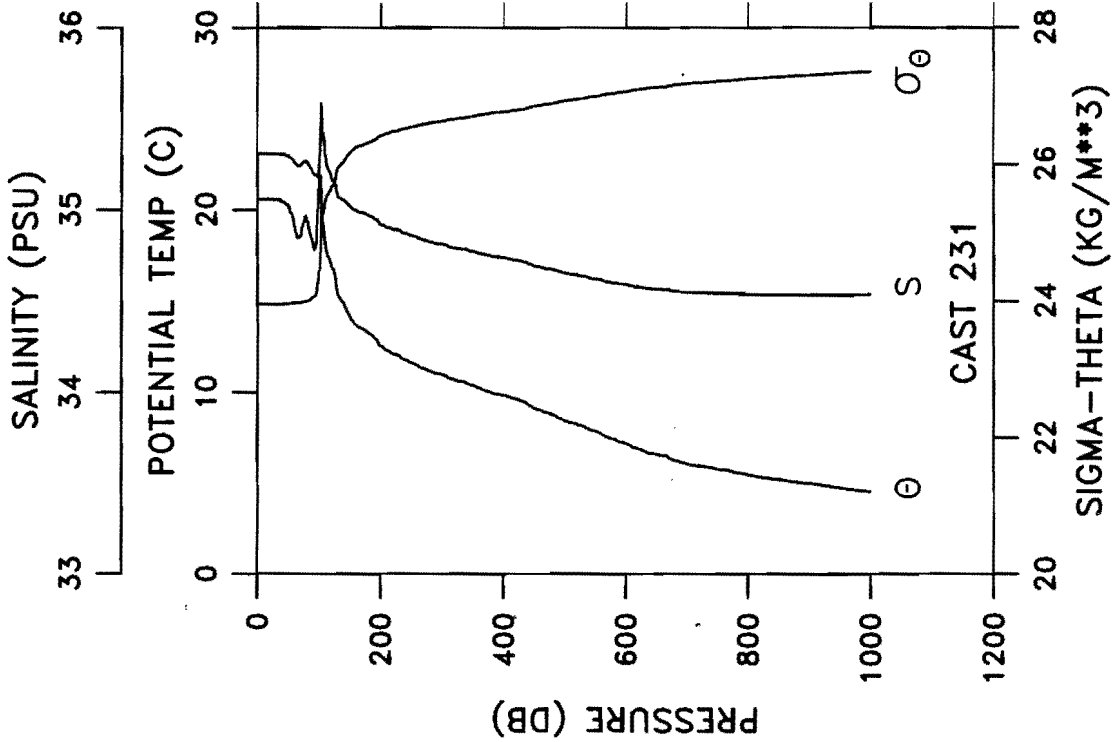
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.909	34.975	23.942	0.000
10	22.911	34.973	23.940	0.040
20	22.916	34.977	23.942	0.079
30	22.912	34.975	23.942	0.119
40	22.816	35.034	24.014	0.158
50	22.468	34.953	24.051	0.197
60	22.442	34.952	24.058	0.236
70	22.449	34.959	24.062	0.275
80	22.403	34.953	24.070	0.313
90	21.843	34.922	24.204	0.352
100	20.315	35.136	24.783	0.386
110	17.221	35.197	25.614	0.413
120	15.509	35.075	25.918	0.435
130	14.692	35.028	26.062	0.455
140	14.204	34.999	26.144	0.475
150	13.766	34.975	26.218	0.493
160	13.323	34.962	26.299	0.511
170	13.041	34.951	26.347	0.529
180	12.958	34.946	26.360	0.546
190	12.676	34.929	26.403	0.563
200	12.444	34.916	26.439	0.579
250	11.765	34.873	26.535	0.658
300	11.279	34.834	26.596	0.735
350	10.583	34.789	26.686	0.808
400	9.919	34.749	26.770	0.878
450	9.317	34.708	26.838	0.945
500	8.587	34.665	26.922	1.008
550	7.856	34.627	27.003	1.067
600	7.119	34.592	27.081	1.123
650	6.530	34.568	27.143	1.175
700	6.106	34.554	27.187	1.224
750	5.688	34.547	27.234	1.272
800	5.344	34.542	27.272	1.318
900	4.728	34.544	27.344	1.404
1000	4.398	34.554	27.389	1.484
1000	4.398	34.554	27.389	1.484

CAST 221-99-RB-0221 DATE 18 NOV 99 TIME 1713 GMT
 LAT 7 00.0S LONG 110 00.0W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 110 T SPD 15 KT VISIBILITY 8
 CLOUD 3 AMOUNT 3 DRY 24.5 WET 20.8 DEPTH 3460 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.184	35.137	23.986	0.000
10	23.178	35.132	23.984	0.039
20	23.146	35.132	23.983	0.078
30	23.142	35.133	23.995	0.117
40	23.134	35.134	23.998	0.157
50	23.124	35.140	24.006	0.196
60	23.060	35.153	24.034	0.235
70	22.963	35.128	24.043	0.274
80	22.714	35.063	24.065	0.313
90	22.503	35.030	24.100	0.351
100	21.742	34.916	24.228	0.389
110	20.808	35.273	24.755	0.424
120	16.526	35.136	25.732	0.450
130	15.135	35.057	25.987	0.472
140	14.012	35.006	26.190	0.491
150	13.719	34.998	26.245	0.510
160	13.283	34.970	26.313	0.527
170	13.004	34.953	26.356	0.545
180	12.718	34.934	26.399	0.562
190	12.512	34.919	26.428	0.578
200	12.386	34.915	26.449	0.595
250	11.715	34.874	26.546	0.674
300	10.923	34.809	26.641	0.749
350	10.188	34.761	26.734	0.820
400	9.473	34.718	26.821	0.887
450	8.730	34.673	26.905	0.950
500	8.130	34.641	26.973	1.010
550	7.508	34.609	27.040	1.067
600	7.039	34.589	27.090	1.121
650	6.565	34.572	27.141	1.173
700	6.134	34.556	27.185	1.223
750	5.824	34.548	27.218	1.271
800	5.526	34.542	27.250	1.318
900	4.945	34.537	27.315	1.407
1000	4.476	34.541	27.370	1.490
1001	4.477	34.541	27.370	1.491

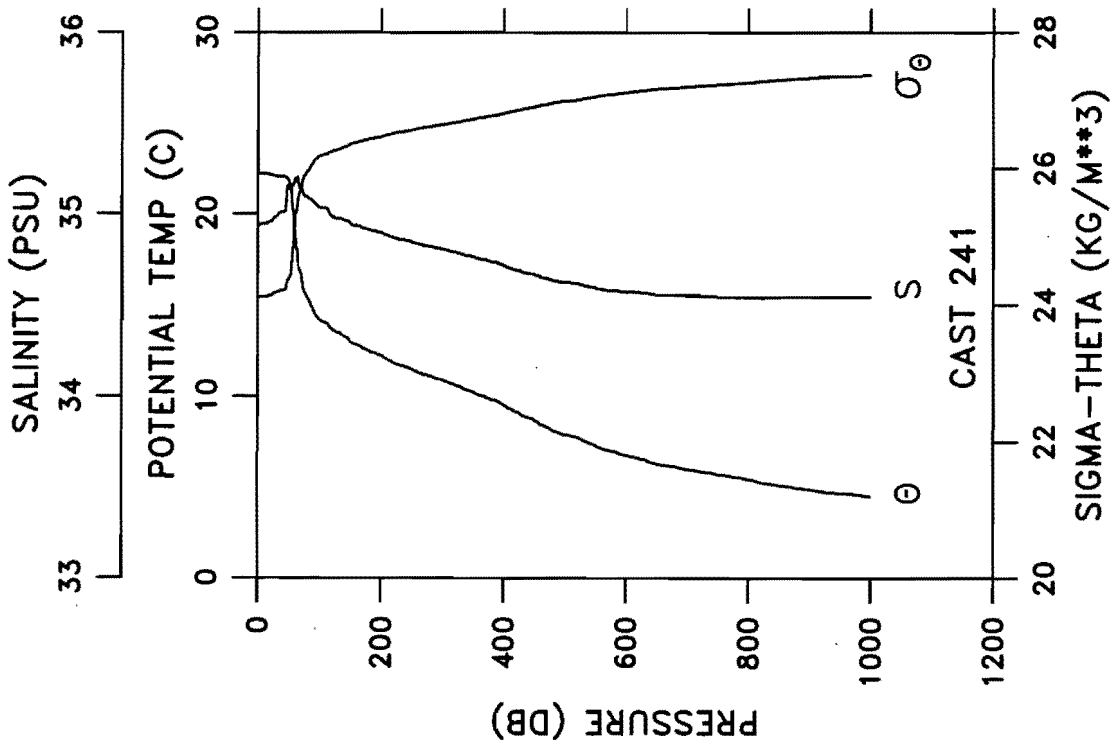
CAST GP8-99-RB-0231 DATE 19 NOV 99 TIME 0739 GMT
 LAT 7 59.1S LONG 109 56.8W WEATHER 1 SEA STATE 4
 BAROMETER 17 WIND DIR 110 T SPD 14 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 23.0 WET 20.3 DEPTH 3494 M



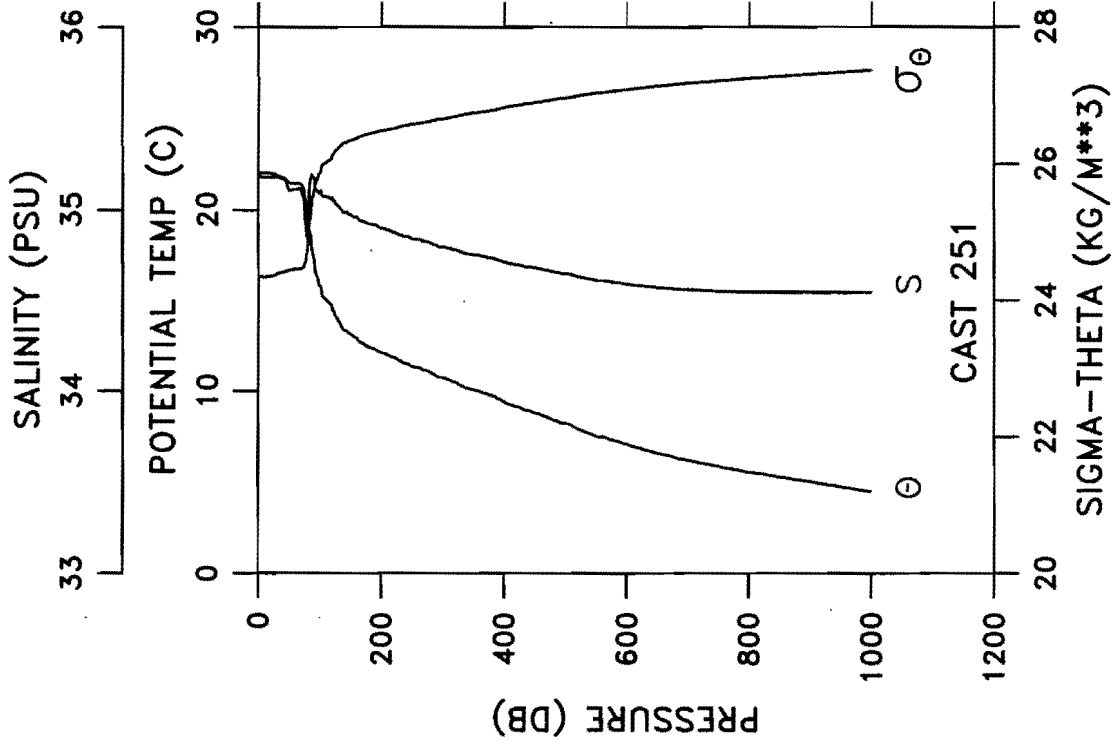
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.087	35.061	23.956	0.000
10	23.085	35.061	23.957	0.039
20	23.084	35.060	23.956	0.079
30	23.086	35.060	23.956	0.118
40	23.039	35.047	23.959	0.158
50	22.971	35.028	23.965	0.198
60	22.607	34.912	23.981	0.237
70	22.442	34.857	23.986	0.277
80	22.601	34.941	24.005	0.316
90	22.064	34.817	24.063	0.355
100	21.839	35.236	24.443	0.393
110	18.179	35.303	25.461	0.422
120	16.934	35.176	25.666	0.447
130	15.386	35.074	25.944	0.469
140	14.880	35.054	26.041	0.490
150	14.151	35.026	26.176	0.509
160	13.699	34.998	26.249	0.528
170	13.488	34.985	26.283	0.545
180	13.255	34.972	26.320	0.563
190	12.971	34.951	26.361	0.580
200	12.546	34.921	26.422	0.597
250	11.630	34.862	26.552	0.677
300	11.001	34.815	26.632	0.752
350	10.407	34.774	26.706	0.824
400	9.866	34.741	26.773	0.892
450	9.127	34.693	26.858	0.958
500	8.442	34.655	26.936	1.021
550	7.862	34.624	26.999	1.080
600	7.178	34.591	27.072	1.135
650	6.579	34.566	27.134	1.188
700	6.072	34.550	27.188	1.238
750	5.760	34.543	27.222	1.286
800	5.455	34.538	27.255	1.332
900	4.997	34.534	27.306	1.421
1000	4.527	34.537	27.362	1.505
1500	2.865	34.594	27.573	1.858
2000	2.140	34.635	27.668	2.139
2500	1.691	34.665	27.727	2.387
3000	1.538	34.674	27.746	2.622
3500	1.349	34.681	27.765	2.852
3539	1.347	34.681	27.765	2.870

CAST GP8-99-RB-0241 DATE 23 NOV 99 TIME 0650 GMT
 LAT 8 00.4S LONG 95 07.0W WEATHER 1 SEA STATE 3
 BAROMETER 16 WIND DIR 130 T SPD 10 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 22.0 WET 19.2 DEPTH 4023 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.189	34.943	24.123	0.000
10	22.188	34.946	24.125	0.038
20	22.135	34.957	24.149	0.076
30	22.046	34.984	24.194	0.113
40	22.031	35.009	24.217	0.150
50	21.835	35.153	24.382	0.187
60	19.128	35.185	25.131	0.220
70	16.739	35.135	25.681	0.245
80	15.427	35.090	25.948	0.266
90	14.703	35.066	26.089	0.287
100	14.188	35.033	26.173	0.306
110	14.017	35.028	26.206	0.324
120	13.709	34.989	26.240	0.342
130	13.491	34.975	26.274	0.360
140	13.277	34.965	26.310	0.378
150	12.978	34.947	26.357	0.395
160	12.846	34.938	26.376	0.412
170	12.637	34.922	26.405	0.429
180	12.487	34.914	26.428	0.445
190	12.376	34.906	26.444	0.461
200	12.242	34.897	26.463	0.478
250	11.495	34.845	26.565	0.556
300	10.900	34.808	26.644	0.630
350	10.250	34.764	26.725	0.701
400	9.535	34.717	26.810	0.769
450	8.693	34.668	26.907	0.833
500	7.913	34.624	26.992	0.892
550	7.301	34.596	27.059	0.948
600	6.753	34.573	27.116	1.001
650	6.275	34.558	27.168	1.051
700	5.970	34.551	27.202	1.100
750	5.681	34.546	27.234	1.147
800	5.417	34.543	27.264	1.193
900	4.873	34.545	27.329	1.280
1000	4.471	34.546	27.375	1.362
1500	2.886	34.598	27.575	1.712
2000	2.128	34.641	27.674	1.993
2500	1.695	34.666	27.728	2.238
3000	1.555	34.677	27.747	2.472
3500	1.513	34.681	27.753	2.710
4000	1.508	34.682	27.755	2.957
4068	1.508	34.682	27.754	2.992

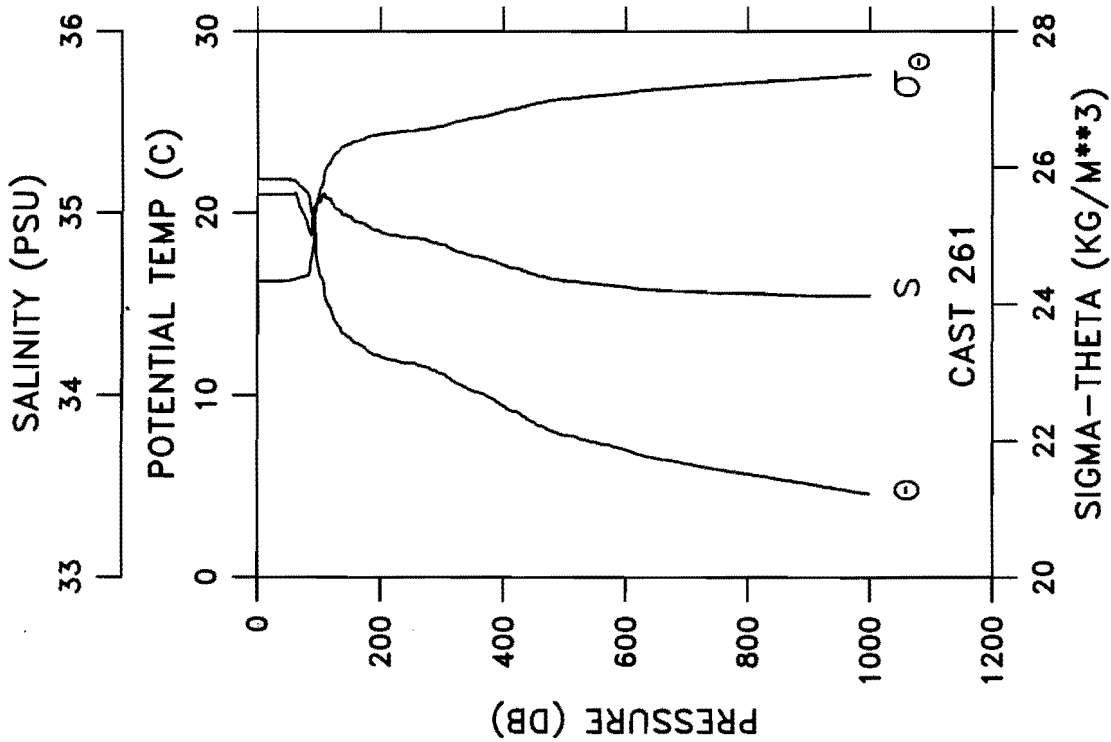


CAST GP8-99-RB-0251 DATE 24 NOV 99 TIME 0752 GMT
 LAT 6 59.9S LONG 94 59.9W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 130 T SPD 17 KT VISIBILITY 8
 CLOUD 8 AMOUNT 4 DRY 22.6 WET 19.8 DEPTH 3963 M



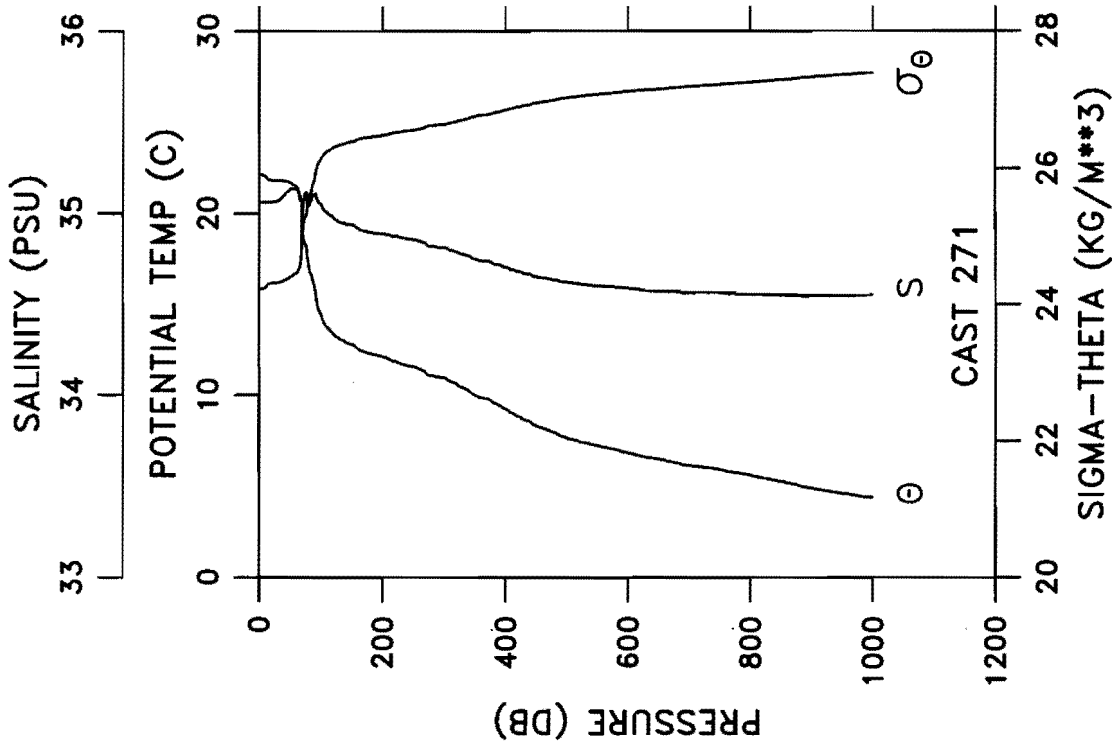
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.014	35.183	24.355	0.000
10	22.018	35.177	24.349	0.036
20	21.988	35.177	24.358	0.071
30	21.867	35.179	24.392	0.107
40	21.767	35.171	24.414	0.142
50	21.482	35.107	24.445	0.177
60	21.449	35.111	24.457	0.212
70	21.375	35.103	24.471	0.247
80	19.520	34.839	24.765	0.281
90	17.391	35.178	25.558	0.309
100	15.808	35.091	25.863	0.331
110	15.039	35.072	26.019	0.352
120	14.583	35.066	26.115	0.372
130	13.871	35.022	26.232	0.390
140	13.355	34.984	26.309	0.408
150	13.145	34.973	26.344	0.425
160	12.905	34.959	26.380	0.442
170	12.634	34.936	26.417	0.459
180	12.449	34.923	26.443	0.475
190	12.299	34.917	26.467	0.491
200	12.134	34.900	26.486	0.507
250	11.373	34.840	26.583	0.585
300	10.769	34.796	26.659	0.659
350	10.091	34.753	26.744	0.729
400	9.431	34.712	26.823	0.796
450	8.824	34.680	26.896	0.860
500	8.257	34.648	26.959	0.920
550	7.527	34.611	27.038	0.978
600	7.093	34.591	27.084	1.032
650	6.581	34.571	27.138	1.084
700	6.212	34.561	27.179	1.134
750	5.896	34.550	27.210	1.183
800	5.545	34.544	27.250	1.230
900	5.051	34.544	27.308	1.319
1000	4.506	34.545	27.370	1.402
1001	4.503	34.544	27.370	1.403

CAST GP8-99-RB-0261 DATE 24 NOV 99 TIME 1342 GMT
 LAT 6 00.0S LONG 95 00.0W WEATHER 1 SEA STATE 4
 BAROMETER 16 WIND DIR 158 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 22.2 WET 19.5 DEPTH 3818 M



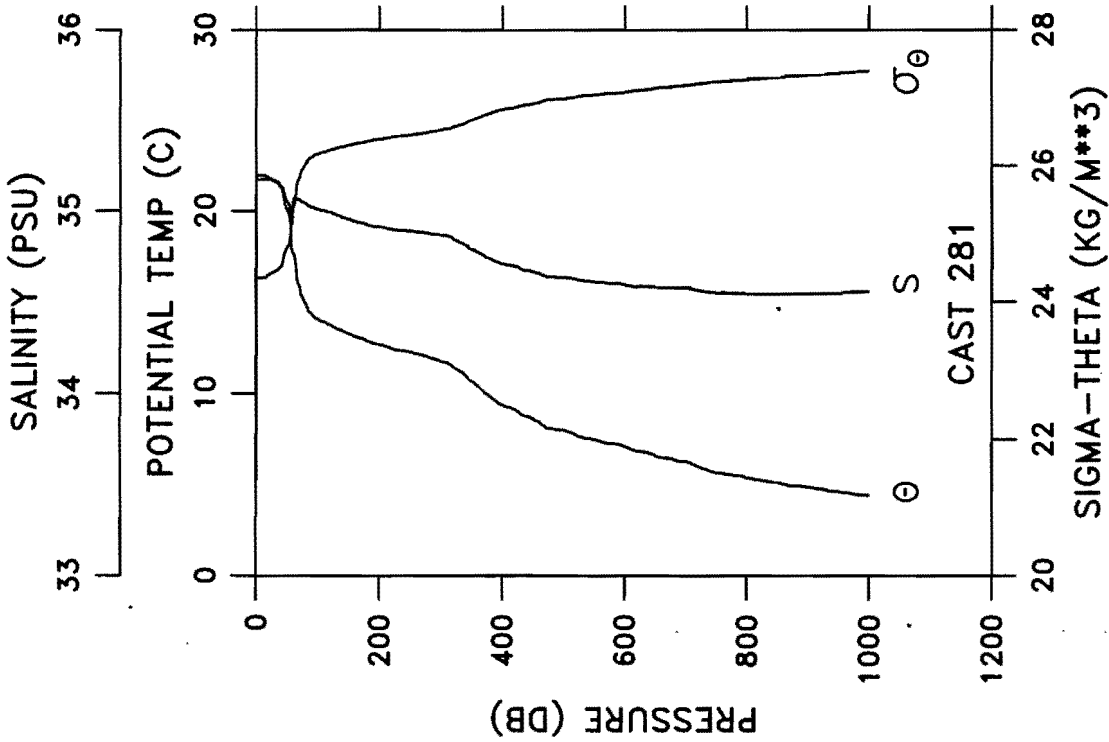
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.863	35.100	24.334	0.000
10	21.858	35.100	24.335	0.036
20	21.854	35.101	24.336	0.072
30	21.852	35.101	24.337	0.108
40	21.842	35.102	24.341	0.144
50	21.826	35.103	24.346	0.179
60	21.772	35.105	24.363	0.215
70	21.454	35.025	24.390	0.251
80	21.147	34.950	24.417	0.286
90	19.911	35.027	24.807	0.321
100	16.844	35.060	25.599	0.348
110	15.328	35.082	25.964	0.370
120	14.572	35.063	26.115	0.390
130	13.875	35.019	26.228	0.409
140	13.381	34.988	26.307	0.427
150	13.136	34.980	26.351	0.444
160	12.843	34.950	26.386	0.461
170	12.702	34.944	26.410	0.478
180	12.402	34.925	26.454	0.494
190	12.201	34.905	26.478	0.510
200	12.090	34.896	26.491	0.526
250	11.733	34.865	26.536	0.604
300	11.177	34.825	26.608	0.681
350	10.234	34.763	26.727	0.753
400	9.430	34.714	26.824	0.820
450	8.540	34.664	26.928	0.883
500	7.813	34.627	27.009	0.941
550	7.443	34.612	27.051	0.997
600	7.007	34.593	27.098	1.051
650	6.526	34.577	27.150	1.102
700	6.238	34.569	27.182	1.152
750	5.922	34.561	27.216	1.200
800	5.674	34.558	27.244	1.247
900	5.118	34.546	27.302	1.337
1000	4.587	34.546	27.362	1.421
1001	4.582	34.545	27.362	1.422

CAST GP8-99-RB-0271 DATE 24 NOV 99 TIME 2029 GMT
 LAT 5 00.6S LONG 95 03.8W WEATHER 0 SEA STATE 4
 BAROMETER 14 WIND DIR 165 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 24.5 WET 20.5 DEPTH 3819 M



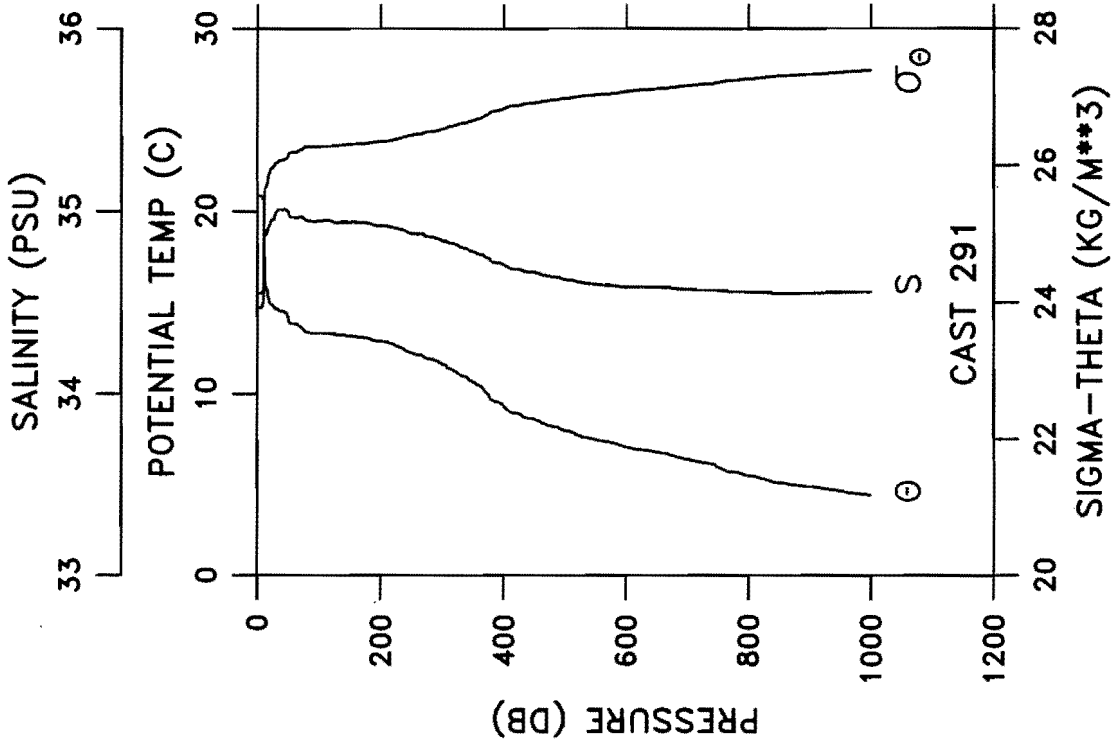
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.146	35.064	24.227	0.000
10	22.066	35.063	24.249	0.037
20	21.851	35.064	24.309	0.073
30	21.832	35.070	24.319	0.109
40	21.805	35.098	24.349	0.145
50	21.729	35.133	24.396	0.181
60	21.507	35.133	24.457	0.216
70	19.271	34.930	24.900	0.250
80	17.237	35.041	25.490	0.277
90	15.971	35.103	25.835	0.300
100	14.461	35.053	26.131	0.320
110	13.776	35.004	26.238	0.339
120	13.372	34.978	26.301	0.357
130	13.104	34.953	26.336	0.374
140	12.926	34.943	26.364	0.391
150	12.796	34.938	26.386	0.408
160	12.565	34.918	26.416	0.424
170	12.387	34.903	26.440	0.441
180	12.292	34.896	26.453	0.457
190	12.217	34.891	26.464	0.473
200	12.121	34.888	26.479	0.489
250	11.581	34.855	26.556	0.567
300	10.961	34.813	26.637	0.642
350	10.007	34.750	26.756	0.712
400	9.262	34.704	26.845	0.779
450	8.343	34.654	26.950	0.840
500	7.673	34.622	27.025	0.898
550	7.220	34.601	27.074	0.952
600	6.826	34.589	27.119	1.005
650	6.489	34.573	27.152	1.056
700	6.126	34.564	27.192	1.105
750	5.912	34.565	27.221	1.153
800	5.593	34.556	27.252	1.200
900	4.894	34.547	27.328	1.288
1000	4.402	34.554	27.389	1.369
1003	4.394	34.554	27.390	1.371

CAST GP8-99-RB-0281 DATE 25 NOV 99 TIME 0211 GMT
 LAT 4 00.0S LONG 95 00.0W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 160 T SPD 15 KT VISIBILITY 8
 CLOUD 8 AMOUNT 2 DRY 22.1 WET 20.1 DEPTH 3732 M



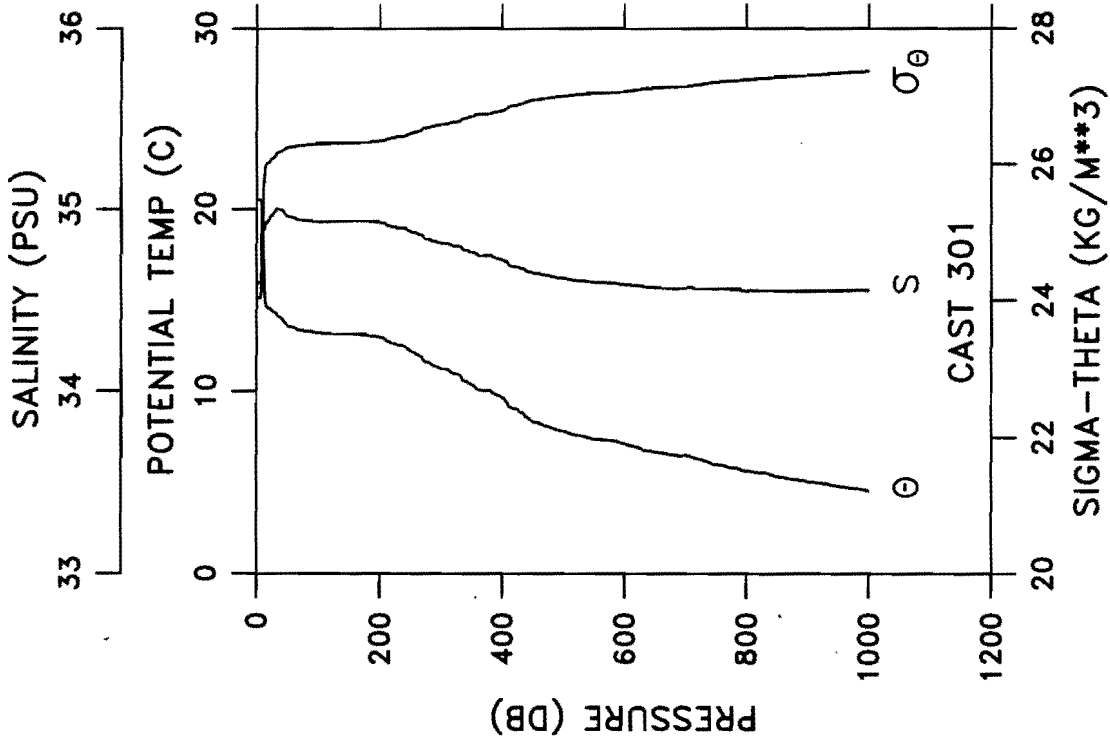
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.977	35.175	24.359	0.000
10	21.968	35.173	24.360	0.036
20	21.840	35.177	24.399	0.071
30	21.637	35.169	24.449	0.106
40	21.277	35.138	24.524	0.141
50	20.027	35.054	24.797	0.174
60	17.692	35.053	25.389	0.203
70	15.891	35.065	25.823	0.227
80	14.915	35.041	26.023	0.248
90	14.341	35.020	26.131	0.267
100	14.077	35.008	26.178	0.286
110	13.919	35.000	26.205	0.304
120	13.754	34.992	26.233	0.322
130	13.558	34.977	26.262	0.340
140	13.416	34.964	26.282	0.358
150	13.257	34.952	26.304	0.376
160	13.109	34.941	26.326	0.393
170	13.010	34.934	26.340	0.410
180	12.867	34.924	26.361	0.428
190	12.735	34.915	26.380	0.445
200	12.662	34.913	26.394	0.461
250	12.274	34.890	26.452	0.544
300	11.734	34.865	26.536	0.624
350	10.661	34.789	26.672	0.700
400	9.373	34.709	26.830	0.768
450	8.635	34.669	26.917	0.831
500	8.003	34.636	26.988	0.890
550	7.487	34.610	27.043	0.946
600	7.099	34.593	27.084	1.001
650	6.588	34.583	27.146	1.053
700	6.261	34.575	27.183	1.102
750	5.656	34.550	27.241	1.150
800	5.366	34.545	27.272	1.186
900	4.862	34.546	27.332	1.282
1000	4.398	34.557	27.392	1.363
1004	4.396	34.558	27.393	1.366

CAST GP8-99-RB-0291 DATE 25 NOV 99 TIME 0758 GMT
 LAT 3 00.2S LONG 95 00.2W WEATHER 1 SEA STATE 3
 BAROMETER 14 WIND DIR 160 T SPD 11 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 21.0 WET 20.0 DEPTH 3540 M



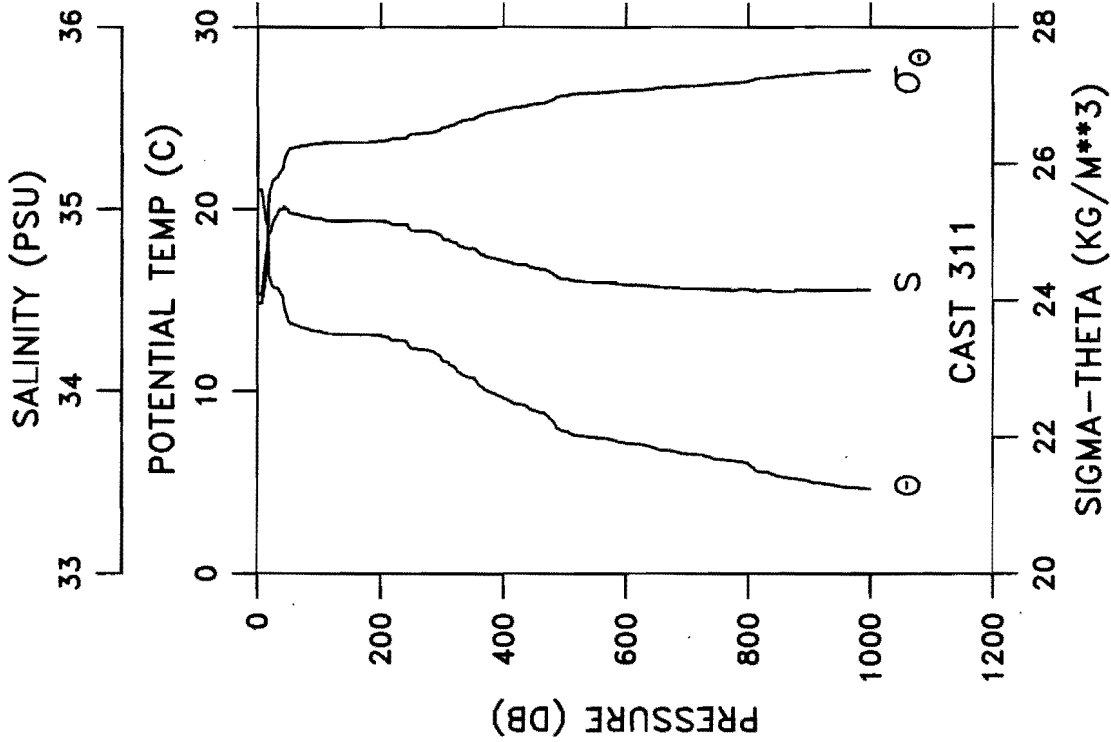
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.854	34.472	24.133	0.000
10	20.262	34.544	24.346	0.038
20	14.972	34.926	25.922	0.061
30	14.669	34.994	26.040	0.081
40	14.535	35.008	26.080	0.101
50	14.163	35.001	26.154	0.120
60	13.846	34.965	26.193	0.138
70	13.696	34.968	26.227	0.156
80	13.394	34.948	26.273	0.174
90	13.341	34.943	26.280	0.192
100	13.350	34.946	26.281	0.209
110	13.341	34.949	26.285	0.227
120	13.307	34.946	26.289	0.244
130	13.237	34.937	26.297	0.262
140	13.218	34.939	26.302	0.279
150	13.175	34.937	26.310	0.297
160	13.156	34.940	26.316	0.314
170	13.109	34.937	26.323	0.332
180	13.058	34.933	26.330	0.349
190	12.922	34.923	26.350	0.366
200	12.895	34.921	26.353	0.384
250	12.269	34.880	26.445	0.468
300	11.628	34.838	26.534	0.548
350	10.663	34.778	26.663	0.624
400	9.363	34.709	26.832	0.692
450	8.633	34.666	26.915	0.755
500	7.989	34.628	26.983	0.814
550	7.481	34.601	27.037	0.871
600	7.058	34.584	27.084	0.925
650	6.775	34.585	27.123	0.978
700	6.377	34.573	27.167	1.029
750	5.956	34.566	27.215	1.078
800	5.488	34.559	27.268	1.124
900	4.884	34.550	27.332	1.211
1000	4.436	34.558	27.389	1.292
1006	4.412	34.558	27.391	1.297

CAST GP8-99-RB-0301 DATE 25 NOV 99 TIME 1126 GMT
 LAT 2 30.2S LONG 95 01.2W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 143 T SPD 07 KT VISIBILITY 8
 CLOUD 3 AMOUNT 6 DRY 21.1 WET 20.0 DEPTH 2713 M



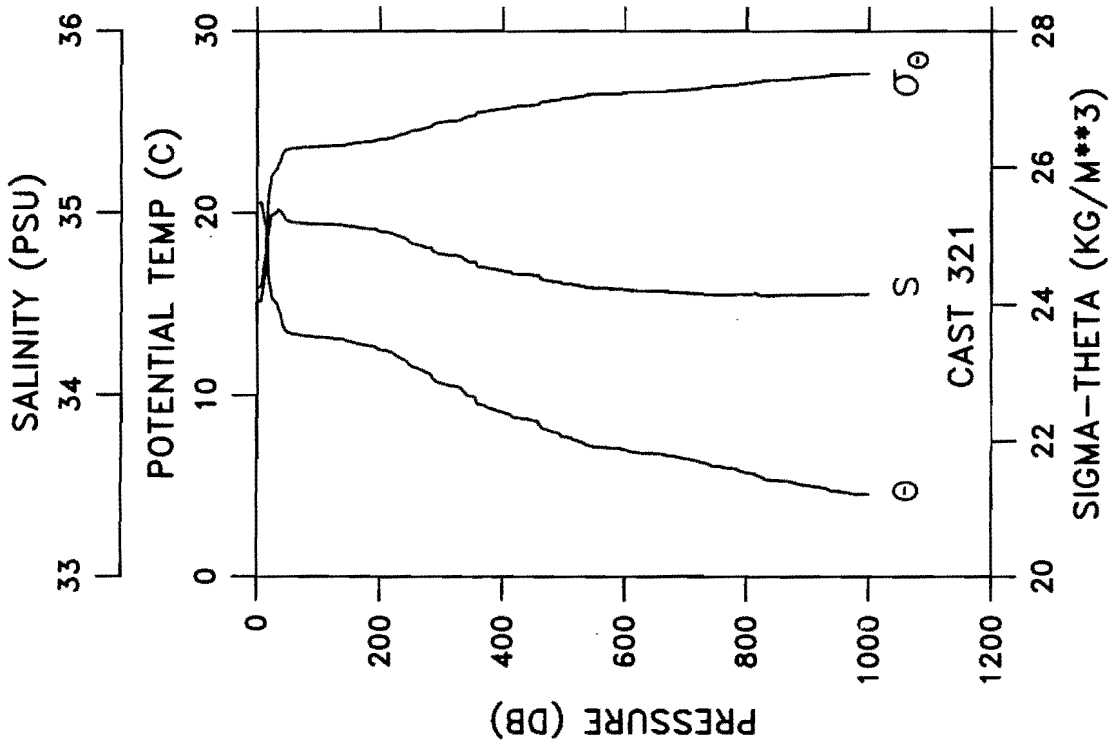
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.515	34.513	24.255	0.000
10	18.761	34.738	24.883	0.036
20	14.549	34.941	26.025	0.057
30	14.316	34.989	26.113	0.076
40	14.000	34.995	26.184	0.095
50	13.597	34.959	26.240	0.113
60	13.521	34.953	26.251	0.131
70	13.375	34.940	26.271	0.149
80	13.313	34.937	26.281	0.166
90	13.278	34.936	26.287	0.184
100	13.223	34.931	26.295	0.201
110	13.192	34.930	26.301	0.219
120	13.181	34.932	26.305	0.236
130	13.170	34.933	26.307	0.253
140	13.165	34.934	26.309	0.271
150	13.163	34.935	26.311	0.288
160	13.142	34.936	26.315	0.306
170	13.126	34.936	26.319	0.323
180	13.079	34.934	26.327	0.341
190	13.034	34.931	26.333	0.358
200	12.982	34.927	26.341	0.375
250	12.225	34.877	26.451	0.460
300	11.249	34.811	26.584	0.538
350	10.372	34.762	26.702	0.612
400	9.679	34.721	26.789	0.681
450	8.373	34.648	26.941	0.744
500	7.845	34.621	26.999	0.802
550	7.416	34.599	27.045	0.858
600	7.172	34.588	27.071	0.913
650	6.700	34.571	27.122	0.966
700	6.522	34.569	27.145	1.017
750	6.007	34.562	27.205	1.067
800	5.656	34.551	27.241	1.114
900	5.063	34.549	27.310	1.204
1000	4.553	34.554	27.372	1.287
1002	4.540	34.555	27.374	1.289

CAST GP8-99-RB-0311 DATE 26 NOV 99 TIME 0205 GMT
 LAT 1 59.9S LONG 95 05.8W WEATHER 1 SEA STATE 3
 BAROMETER 12 WIND DIR 133 T SPD 08 KT VISIBILITY 8
 CLOUD 6 AMOUNT 3 DRY 21.2 WET 20.0 DEPTH 3371 M



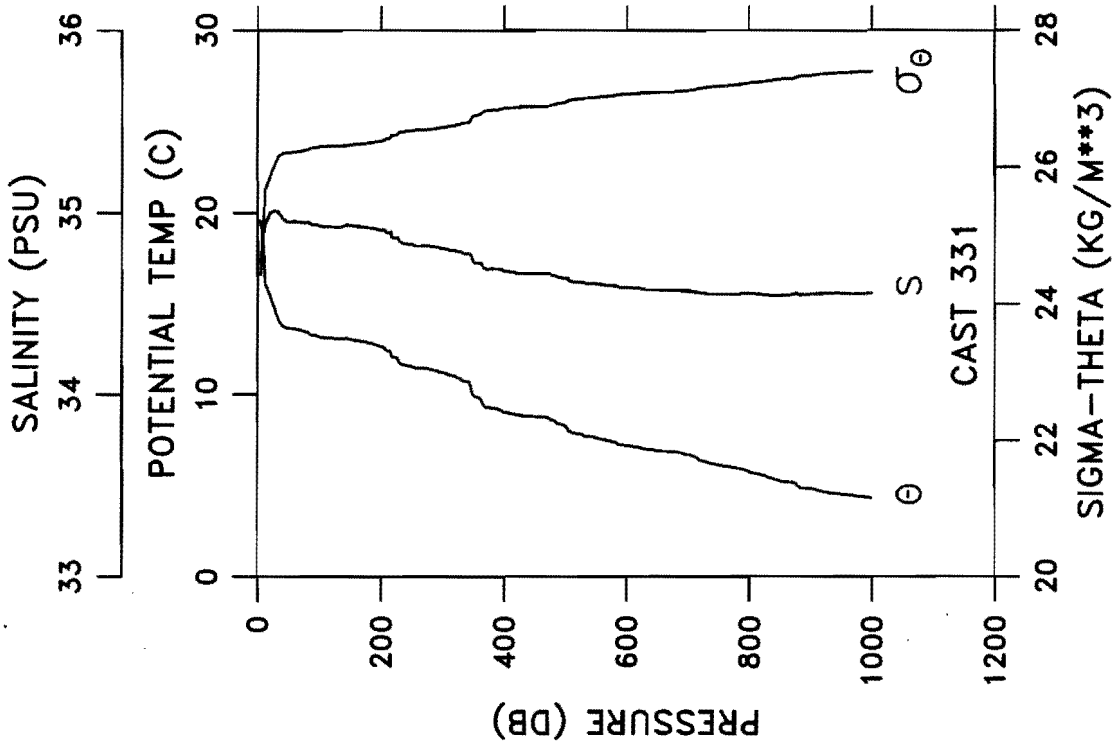
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	21.055	34.488	24.090	0.000
10	20.117	34.558	24.395	0.038
20	16.176	34.869	25.607	0.068
30	15.676	34.963	25.793	0.091
40	15.263	35.000	25.914	0.112
50	13.888	34.985	26.199	0.131
60	13.651	34.973	26.240	0.149
70	13.518	34.964	26.260	0.167
80	13.451	34.959	26.270	0.185
90	13.337	34.949	26.286	0.202
100	13.313	34.947	26.289	0.220
110	13.212	34.937	26.302	0.237
120	13.167	34.931	26.306	0.255
130	13.157	34.931	26.308	0.272
140	13.150	34.933	26.311	0.290
150	13.148	34.933	26.312	0.307
160	13.148	34.934	26.313	0.325
170	13.144	34.937	26.316	0.342
180	13.136	34.937	26.318	0.359
190	13.110	34.936	26.322	0.377
200	13.067	34.934	26.329	0.394
250	12.346	34.881	26.431	0.480
300	11.690	34.840	26.524	0.562
350	10.749	34.783	26.652	0.638
400	9.638	34.717	26.792	0.707
450	8.956	34.679	26.874	0.772
500	7.830	34.617	26.999	0.832
550	7.467	34.601	27.039	0.888
600	7.146	34.586	27.073	0.943
650	6.863	34.577	27.105	0.997
700	6.568	34.567	27.137	1.049
750	6.270	34.557	27.168	1.100
800	6.027	34.561	27.203	1.150
900	5.082	34.556	27.314	1.240
1000	4.637	34.559	27.367	1.323
1001	4.612	34.556	27.367	1.324

CAST GP8-99-RB-0321 DATE 26 NOV 99 TIME 0614 GMT
 LAT 1 30.0S LONG 95 01.0W WEATHER 0 SEA STATE 2
 BAROMETER 13 WIND DIR 125 T SPD 05 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 21.0 WET 20.2 DEPTH 3329 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.544	34.519	24.252	0.000
10	19.962	34.598	24.466	0.036
20	16.113	34.929	25.668	0.066
30	15.092	34.999	25.952	0.088
40	14.157	34.997	26.153	0.107
50	13.477	34.955	26.262	0.125
60	13.361	34.946	26.279	0.143
70	13.304	34.943	26.288	0.160
80	13.277	34.941	26.292	0.178
90	13.234	34.939	26.299	0.195
100	13.209	34.938	26.303	0.212
110	13.196	34.938	26.306	0.230
120	13.154	34.937	26.314	0.247
130	13.124	34.935	26.318	0.265
140	13.090	34.932	26.323	0.282
150	12.980	34.925	26.340	0.299
160	12.883	34.922	26.357	0.316
170	12.806	34.916	26.367	0.333
180	12.758	34.913	26.374	0.350
190	12.702	34.910	26.383	0.367
200	12.511	34.897	26.411	0.384
250	11.643	34.837	26.531	0.465
300	10.676	34.776	26.659	0.540
350	9.949	34.732	26.752	0.611
400	9.083	34.686	26.859	0.676
450	8.627	34.661	26.912	0.738
500	7.741	34.613	27.008	0.796
550	7.173	34.590	27.072	0.852
600	7.015	34.582	27.087	0.905
650	6.804	34.574	27.111	0.958
700	6.533	34.565	27.139	1.010
750	6.095	34.556	27.190	1.060
800	5.738	34.557	27.235	1.108
900	5.044	34.554	27.317	1.197
1000	4.548	34.558	27.376	1.280
1001	4.545	34.558	27.376	1.280

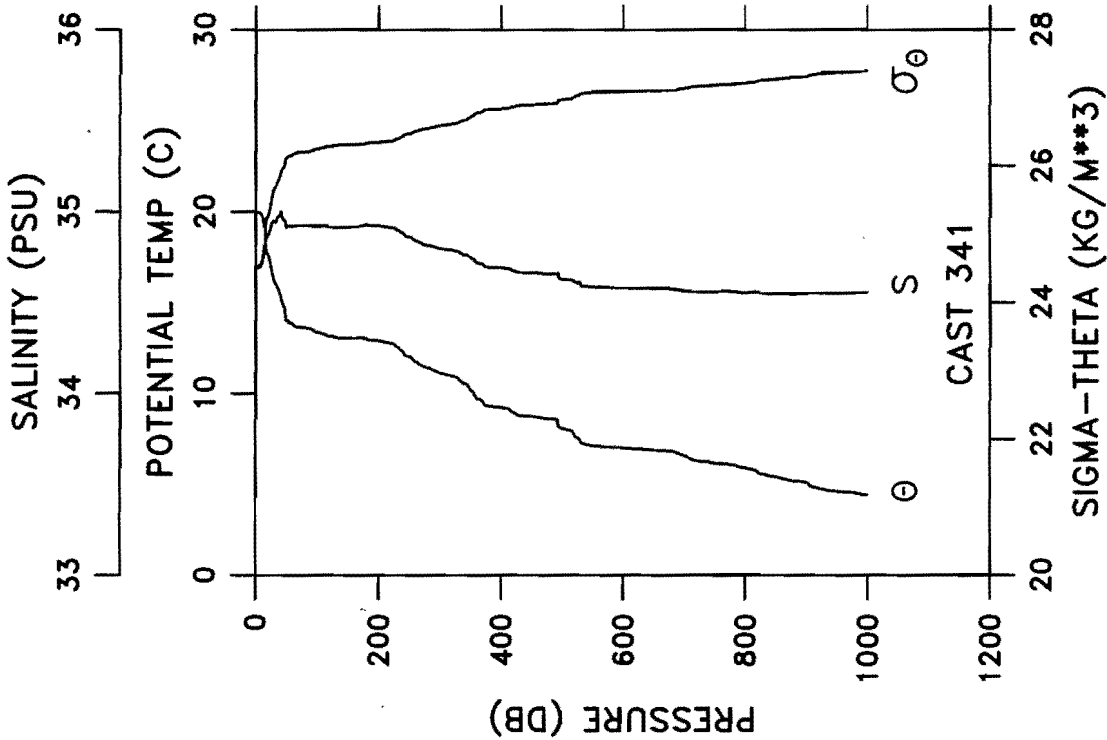
CAST GP8-99-RB-0331 DATE 26 NOV 99 TIME 0933 GMT
 LAT 1 00.05 LONG 95 00.0W WEATHER 0 SEA STATE 2
 BAROMETER 10 WIND DIR 135 T SPD 08 KT VISIBILITY 8
 CLOUD 8 AMOUNT 1 DRY 20.0 WET 19.0 DEPTH 3324 M



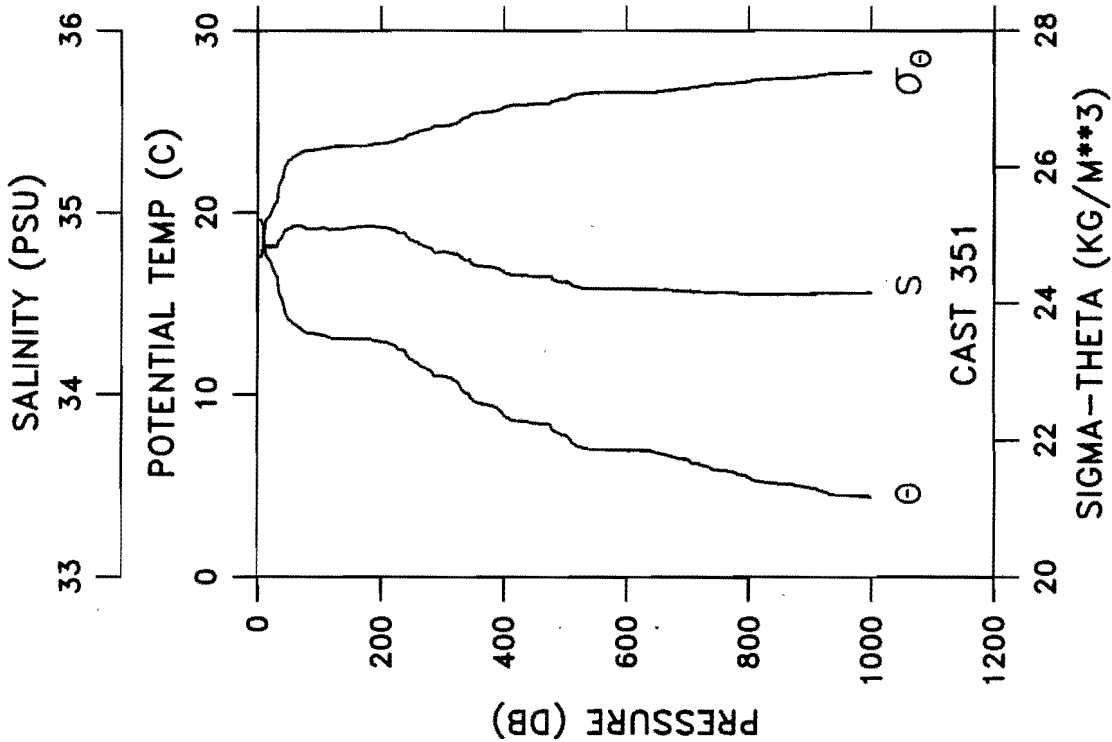
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.555	34.667	24.625	0.000
10	17.581	34.886	25.288	0.032
20	15.498	35.001	25.863	0.055
30	14.453	35.008	26.098	0.075
40	13.801	34.970	26.206	0.093
50	13.663	34.952	26.221	0.111
60	13.615	34.954	26.232	0.129
70	13.551	34.949	26.242	0.147
80	13.438	34.948	26.264	0.165
90	13.267	34.937	26.290	0.183
100	13.177	34.931	26.304	0.200
110	13.131	34.924	26.308	0.217
120	13.105	34.924	26.313	0.235
130	13.091	34.923	26.315	0.252
140	13.100	34.929	26.319	0.269
150	13.046	34.932	26.332	0.287
160	12.986	34.927	26.340	0.304
170	12.934	34.924	26.348	0.321
180	12.854	34.918	26.359	0.338
190	12.774	34.913	26.371	0.355
200	12.660	34.905	26.388	0.372
250	11.562	34.827	26.538	0.452
300	11.216	34.806	26.585	0.529
350	9.952	34.731	26.750	0.603
400	9.039	34.682	26.864	0.668
450	8.809	34.669	26.890	0.731
500	8.287	34.642	26.949	0.792
550	7.639	34.610	27.021	0.849
600	7.214	34.590	27.066	0.905
650	6.920	34.579	27.099	0.958
700	6.699	34.570	27.121	1.011
750	6.126	34.556	27.186	1.062
800	5.732	34.558	27.237	1.110
900	4.837	34.555	27.341	1.199
1000	4.314	34.559	27.402	1.278
1001	4.313	34.559	27.402	1.279

CAST GP8-99-RB-0341 DATE 26 NOV 99 TIME 1245 GMT
 LAT 0 30.0S LONG 95 01.6W WEATHER 1 SEA STATE 2
 BAROMETER 13 WIND DIR 138 T SPD 07 KT VISIBILITY 8
 CLOUD 8 AMOUNT 5 DRY 20.1 WET 19.3 DEPTH 3366 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.952	34.693	24.542	0.000
10	19.792	34.716	24.601	0.034
20	17.615	34.871	25.268	0.064
30	16.197	34.947	25.663	0.089
40	15.434	34.993	25.871	0.111
50	14.003	34.913	26.120	0.131
60	13.826	34.919	26.161	0.150
70	13.660	34.925	26.201	0.169
80	13.628	34.924	26.207	0.187
90	13.540	34.923	26.224	0.205
100	13.387	34.919	26.253	0.223
110	13.293	34.922	26.274	0.241
120	13.168	34.917	26.295	0.258
130	13.113	34.912	26.303	0.276
140	13.070	34.913	26.312	0.293
150	13.068	34.915	26.314	0.311
160	13.070	34.918	26.316	0.328
170	13.073	34.922	26.318	0.346
180	13.020	34.931	26.336	0.363
190	12.956	34.924	26.343	0.380
200	12.936	34.923	26.347	0.397
250	12.039	34.860	26.474	0.482
300	11.132	34.797	26.594	0.559
350	10.186	34.750	26.725	0.633
400	9.240	34.692	26.839	0.699
450	8.747	34.665	26.896	0.761
500	8.079	34.628	26.970	0.822
550	7.114	34.586	27.077	0.878
600	7.000	34.582	27.089	0.932
650	6.881	34.577	27.103	0.985
700	6.550	34.565	27.137	1.037
750	6.141	34.559	27.186	1.087
800	5.899	34.554	27.214	1.136
900	5.099	34.550	27.307	1.226
1000	4.419	34.558	27.390	1.308
1001	4.415	34.557	27.390	1.308

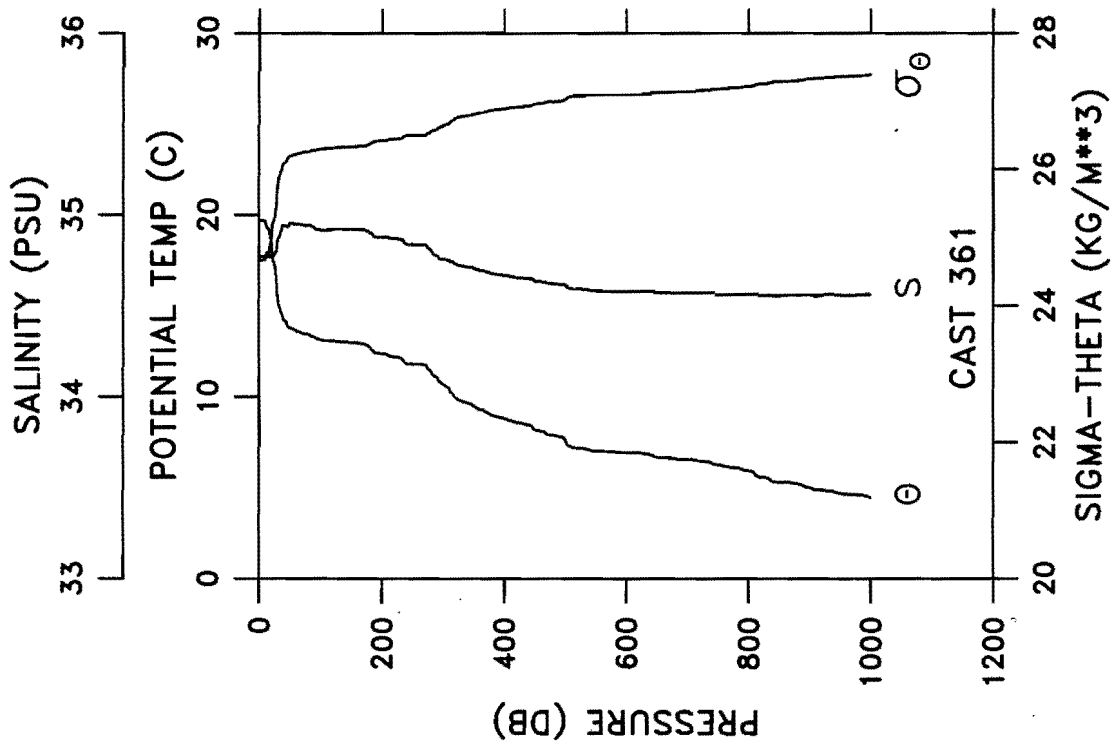


CAST GP8-99-RB-0351 DATE 27 NOV 99 TIME 0357 GMT
 LAT 0 06.9N LONG 94 58.3W WEATHER 0 SEA STATE 3
 BAROMETER 14 WIND DIR 110 T SPD 05 KT VISIBILITY 8
 CLOUD AMOUNT DRY 20.0 WET 19.1 DEPTH 3346 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.600	34.760	24.684	0.000
10	18.485	34.823	25.017	0.032
20	17.344	34.811	25.288	0.060
30	16.537	34.811	25.479	0.085
40	15.157	34.870	25.838	0.108
50	14.095	34.912	26.100	0.129
60	13.843	34.925	26.163	0.148
70	13.609	34.929	26.214	0.166
80	13.363	34.909	26.249	0.184
90	13.342	34.908	26.253	0.202
100	13.282	34.913	26.269	0.219
110	13.224	34.914	26.281	0.237
120	13.102	34.908	26.302	0.255
130	13.084	34.908	26.305	0.272
140	13.060	34.909	26.311	0.290
150	13.056	34.917	26.318	0.307
160	13.053	34.920	26.321	0.324
170	13.051	34.922	26.323	0.342
180	13.039	34.925	26.327	0.359
190	12.934	34.923	26.347	0.376
200	12.888	34.919	26.353	0.394
250	11.920	34.848	26.487	0.477
300	10.997	34.784	26.608	0.554
350	9.674	34.717	26.787	0.626
400	8.867	34.670	26.882	0.691
450	8.436	34.648	26.932	0.751
500	7.811	34.618	27.002	0.810
550	6.986	34.583	27.092	0.864
600	6.938	34.580	27.097	0.916
650	6.787	34.574	27.113	0.969
700	6.423	34.569	27.157	1.020
750	5.838	34.562	27.227	1.069
800	5.441	34.550	27.267	1.115
900	4.882	34.551	27.333	1.201
1000	4.373	34.558	27.396	1.281
1001	4.373	34.558	27.396	1.282

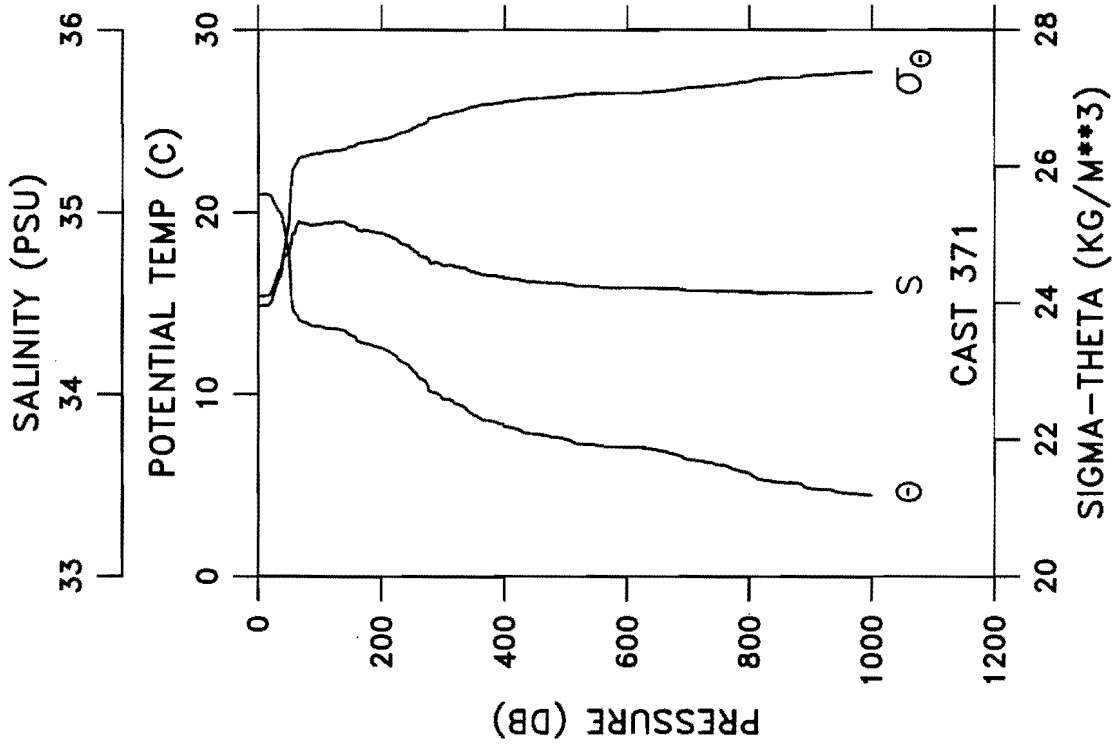
CAST GP8-99-RB-0361 DATE 27 NOV 99 TIME 0726 GMT
 LAT 0 30.2N LONG 95 10.7W WEATHER 1 SEA STATE 3
 BAROMETER 13 WIND DIR 130 T SPD 06 KT VISIBILITY 8
 CLOUD 6 AMOUNT 3 DRY 20.0 WET 19.0 DEPTH 3314 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	19.704	34.773	24.668	0.000
10	19.647	34.778	24.686	0.033
20	18.567	34.784	24.967	0.064
30	15.535	34.858	25.745	0.091
40	14.248	34.940	26.089	0.111
50	13.799	34.955	26.195	0.130
60	13.656	34.949	26.220	0.148
70	13.503	34.945	26.248	0.166
80	13.454	34.944	26.258	0.184
90	13.285	34.930	26.282	0.201
100	13.156	34.917	26.298	0.219
110	13.111	34.915	26.305	0.236
120	13.095	34.922	26.314	0.254
130	13.057	34.922	26.322	0.271
140	13.028	34.921	26.326	0.288
150	13.005	34.922	26.332	0.305
160	12.987	34.922	26.335	0.323
170	12.929	34.917	26.344	0.340
180	12.748	34.903	26.369	0.357
190	12.424	34.877	26.413	0.374
200	12.384	34.877	26.420	0.390
250	11.813	34.838	26.499	0.471
300	10.684	34.757	26.644	0.549
350	9.489	34.705	26.808	0.617
400	8.826	34.669	26.887	0.680
450	8.197	34.635	26.958	0.741
500	7.563	34.611	27.033	0.799
550	7.037	34.583	27.085	0.852
600	6.943	34.580	27.096	0.905
650	6.686	34.572	27.125	0.957
700	6.566	34.571	27.140	1.009
750	6.259	34.566	27.176	1.059
800	5.932	34.562	27.215	1.108
900	5.016	34.561	27.326	1.198
1000	4.474	34.561	27.387	1.280
1000	4.474	34.561	27.387	1.280

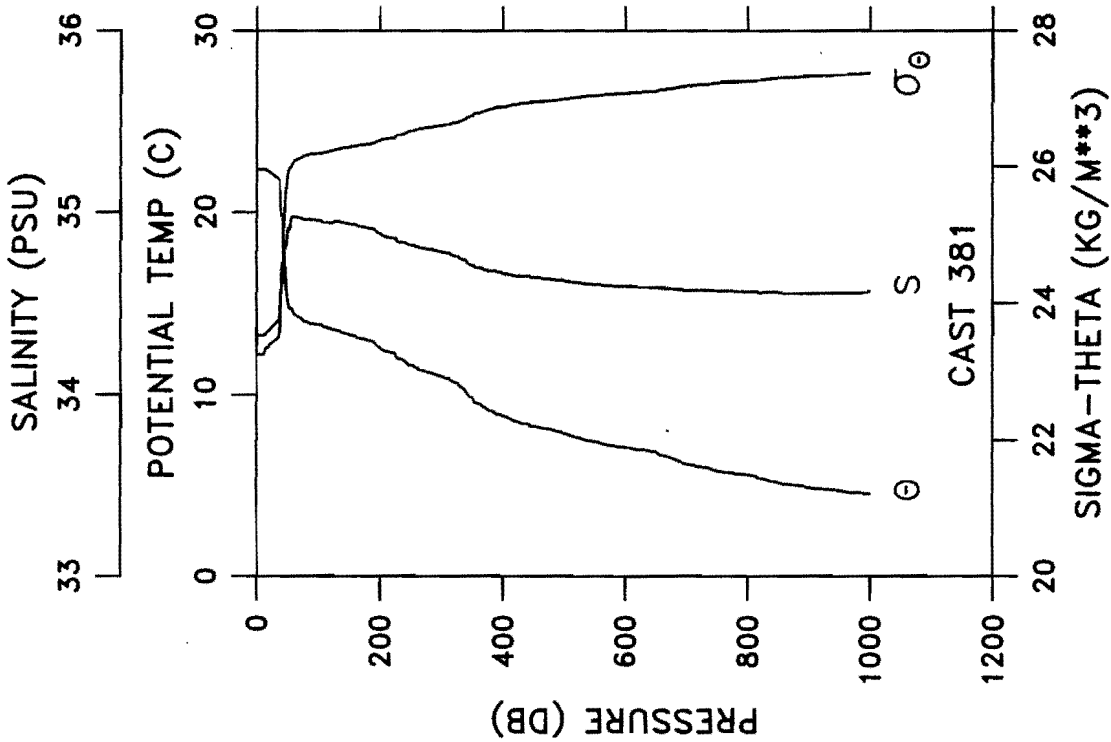
CAST GP8-99-RB-0371 DATE 27 NOV 99 TIME 1039 GMT
 LAT 1 00.1N LONG 95 17.2W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 140 T SPD 15 KT VISIBILITY 7
 CLOUD 7 AMOUNT 3 DRY 20.8 WET 19.0 DEPTH 3287 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	20.979	34.487	24.110	0.000
10	20.977	34.487	24.111	0.036
20	20.891	34.505	24.148	0.076
30	20.262	34.605	24.393	0.112
40	19.438	34.742	24.713	0.147
50	17.628	34.784	25.199	0.177
60	14.435	34.896	26.015	0.199
70	13.996	34.943	26.145	0.218
80	13.891	34.937	26.162	0.237
90	13.734	34.932	26.191	0.256
100	13.713	34.934	26.197	0.274
110	13.614	34.940	26.222	0.292
120	13.590	34.943	26.229	0.310
130	13.551	34.948	26.241	0.328
140	13.470	34.945	26.255	0.347
150	13.218	34.928	26.293	0.364
160	12.936	34.910	26.336	0.382
170	12.827	34.902	26.352	0.399
180	12.732	34.898	26.368	0.416
190	12.623	34.890	26.383	0.433
200	12.544	34.884	26.394	0.450
250	11.350	34.798	26.555	0.530
300	9.727	34.706	26.769	0.602
350	8.857	34.672	26.884	0.666
400	8.246	34.639	26.953	0.727
450	7.819	34.618	27.001	0.784
500	7.532	34.607	27.034	0.840
550	7.187	34.591	27.071	0.894
600	7.090	34.586	27.080	0.948
650	6.916	34.581	27.101	1.001
700	6.415	34.571	27.160	1.053
750	6.120	34.566	27.195	1.103
800	5.649	34.565	27.253	1.150
900	4.828	34.552	27.340	1.237
1000	4.437	34.561	27.391	1.318
1002	4.441	34.560	27.390	1.320

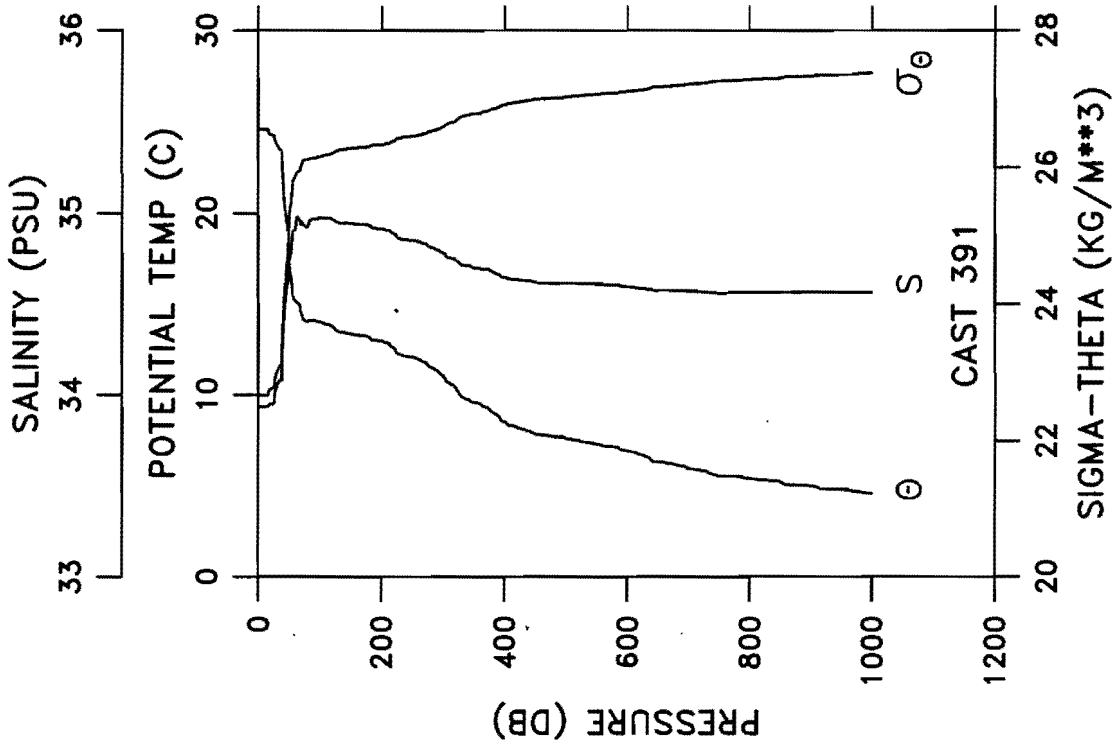


CAST GP8-99-RB-0381 DATE 27 NOV 99 TIME 1358 GMT
 LAT 1 30.0N LONG 95 19.5W WEATHER 1 SEA STATE 4
 BAROMETER 13 WIND DIR 148 T SPD 18 KT VISIBILITY 8
 CLOUD 8 AMOUNT 3 DRY 22.4 WET 20.1 DEPTH 2799 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.349	34.221	23.530	0.000
10	22.350	34.221	23.530	0.044
20	22.195	34.268	23.609	0.087
30	21.944	34.297	23.701	0.129
40	19.795	34.588	24.502	0.169
50	15.105	34.899	25.872	0.197
60	14.454	34.973	26.071	0.217
70	14.207	34.968	26.119	0.236
80	13.987	34.960	26.160	0.255
90	13.866	34.958	26.184	0.274
100	13.820	34.953	26.189	0.292
110	13.699	34.940	26.205	0.311
120	13.586	34.939	26.227	0.329
130	13.508	34.948	26.250	0.347
140	13.367	34.941	26.273	0.365
150	13.267	34.933	26.288	0.383
160	13.195	34.931	26.301	0.400
170	13.048	34.918	26.321	0.418
180	12.957	34.912	26.334	0.435
190	12.869	34.905	26.346	0.452
200	12.561	34.883	26.390	0.469
250	11.607	34.818	26.523	0.551
300	11.015	34.782	26.603	0.627
350	9.867	34.707	26.746	0.700
400	8.822	34.659	26.880	0.764
450	8.267	34.640	26.951	0.825
500	7.872	34.622	26.996	0.883
550	7.423	34.602	27.046	0.939
600	7.117	34.593	27.082	0.993
650	6.880	34.586	27.110	1.046
700	6.167	34.571	27.192	1.096
750	5.821	34.567	27.233	1.144
800	5.591	34.562	27.258	1.190
900	4.880	34.553	27.335	1.277
1000	4.548	34.565	27.381	1.359
1001	4.539	34.564	27.382	1.360

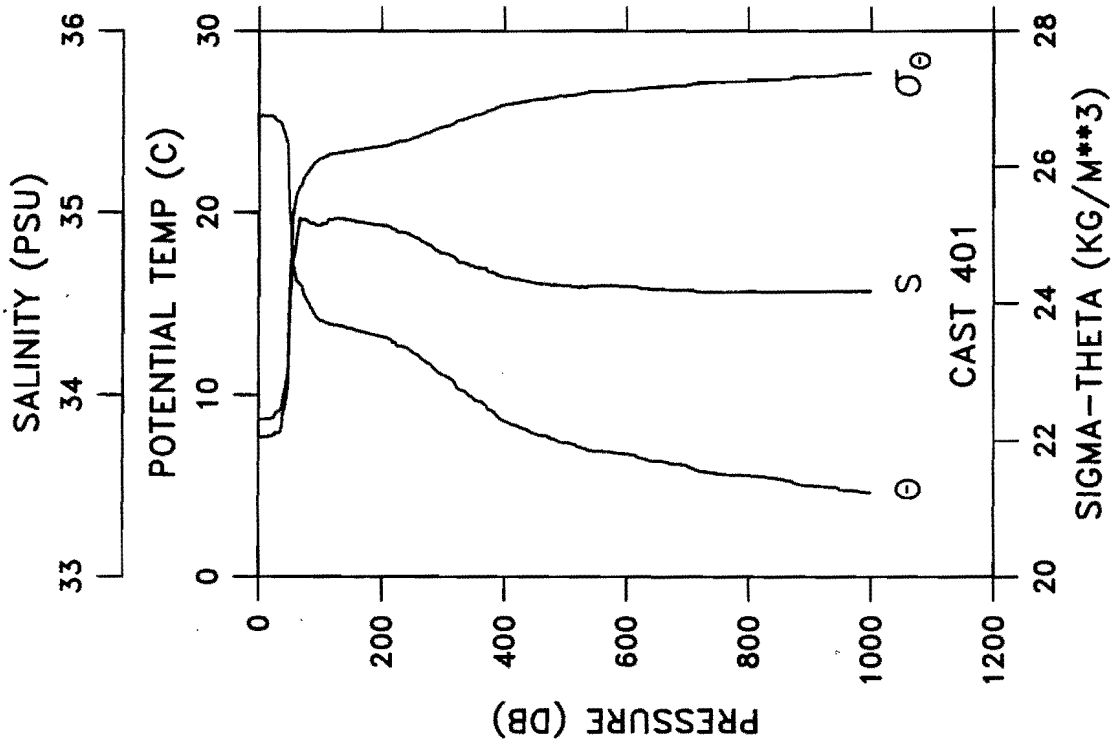


CAST GP8-99-RB-0391 DATE 28 NOV 99 TIME 0007 GMT
 LAT 2 02.9N LONG 95 20.3W WEATHER 2 SEA STATE 4
 BAROMETER 10 WIND DIR 150 T SPD 14 KT VISIBILITY 8
 CLOUD 4 AMOUNT 7 DRY 23.0 WET 20.6 DEPTH 2758 M



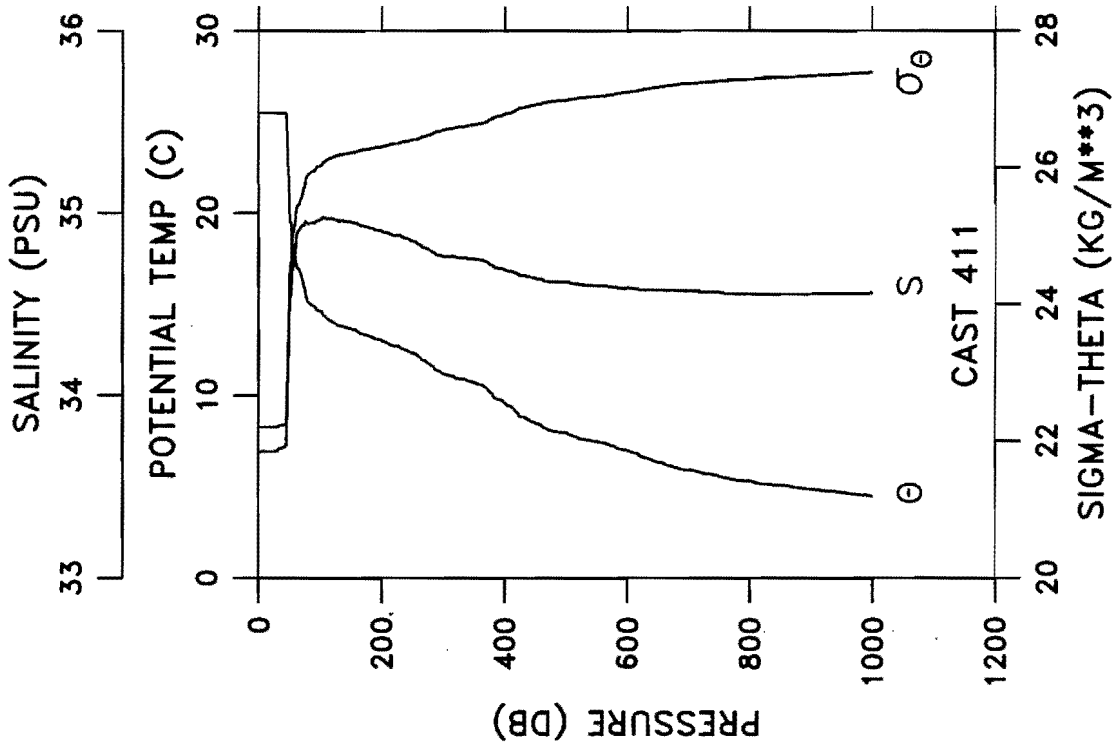
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	24.592	33.936	22.662	0.000
10	24.592	33.935	22.661	0.052
20	24.313	33.950	22.756	0.103
30	23.760	34.045	22.991	0.154
40	21.936	34.302	23.707	0.201
50	17.527	34.749	25.196	0.236
60	15.151	34.908	25.869	0.260
70	14.490	34.936	26.034	0.280
80	14.047	34.924	26.120	0.300
90	14.126	34.969	26.137	0.318
100	14.034	34.975	26.162	0.337
110	13.907	34.972	26.185	0.356
120	13.784	34.967	26.207	0.374
130	13.509	34.949	26.251	0.393
140	13.436	34.946	26.263	0.411
150	13.360	34.945	26.278	0.428
160	13.298	34.940	26.287	0.446
170	13.279	34.939	26.290	0.464
180	13.168	34.931	26.307	0.481
190	13.016	34.917	26.326	0.499
200	12.994	34.915	26.329	0.516
250	12.081	34.850	26.458	0.600
300	11.067	34.780	26.593	0.679
350	9.598	34.701	26.786	0.749
400	8.548	34.647	26.913	0.813
450	7.861	34.621	26.997	0.872
500	7.622	34.617	27.029	0.928
550	7.308	34.609	27.068	0.983
600	6.922	34.595	27.110	1.036
650	6.313	34.577	27.178	1.087
700	5.945	34.571	27.221	1.135
750	5.542	34.559	27.261	1.181
800	5.399	34.565	27.283	1.226
900	5.005	34.564	27.329	1.312
1000	4.583	34.567	27.379	1.394
1002	4.574	34.565	27.379	1.396

CAST GP8-99-RB-0401 DATE 28 NOV 99 TIME 0329 GMT
 LAT 2 30.0N LONG 95 13.5W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 150 T SPD 15 KT VISIBILITY 8
 CLOUD 4 AMOUNT 8 DRY 24.0 WET 21.8 DEPTH 2548 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.330	33.768	22.312	0.000
10	25.331	33.771	22.314	0.055
20	25.313	33.773	22.321	0.110
30	25.027	33.792	22.422	0.165
40	24.538	33.908	22.657	0.219
50	20.899	34.384	24.054	0.267
60	16.458	34.805	25.493	0.297
70	15.952	34.957	25.726	0.320
80	15.044	34.948	25.923	0.342
90	14.420	34.938	26.050	0.362
100	14.046	34.928	26.122	0.382
110	13.928	34.940	26.156	0.401
120	13.838	34.962	26.192	0.419
130	13.785	34.966	26.206	0.438
140	13.683	34.961	26.224	0.456
150	13.628	34.956	26.232	0.474
160	13.512	34.948	26.249	0.493
170	13.437	34.944	26.261	0.511
180	13.325	34.938	26.280	0.528
190	13.250	34.932	26.291	0.546
200	13.176	34.928	26.302	0.564
250	12.346	34.872	26.424	0.650
300	11.089	34.776	26.586	0.729
350	9.791	34.701	26.754	0.801
400	8.545	34.644	26.912	0.866
450	7.867	34.613	26.990	0.925
500	7.391	34.599	27.048	0.981
550	6.919	34.598	27.113	1.034
600	6.757	34.594	27.133	1.085
650	6.341	34.577	27.175	1.135
700	6.071	34.574	27.207	1.183
750	5.652	34.560	27.248	1.230
800	5.553	34.566	27.265	1.275
900	4.999	34.565	27.330	1.363
1000	4.619	34.566	27.374	1.446
1002	4.604	34.566	27.376	1.448

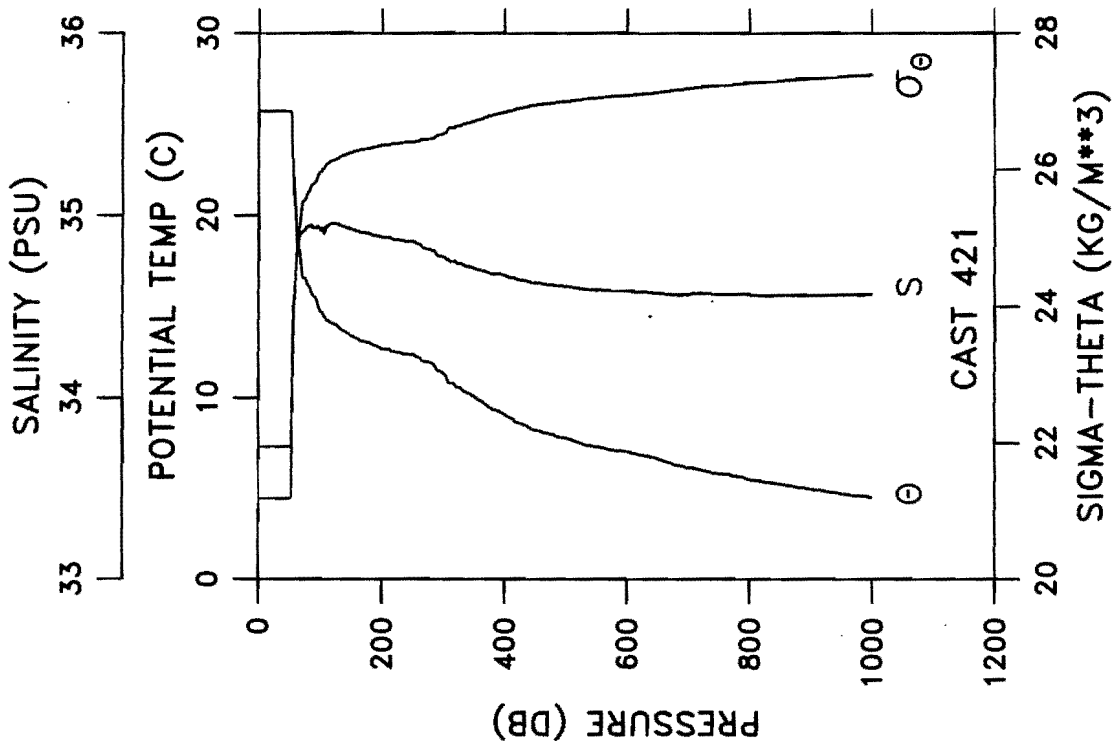
CAST GP8-99-RB-0411 DATE 28 NOV 99 TIME 0705 GMT
 LAT 3 00.0N LONG 95 03.8W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 170 T SPD 12 KT VISIBILITY 8
 CLOUD 6 AMOUNT 6 DRY 24.0 WET 21.8 DEPTH 3117 M



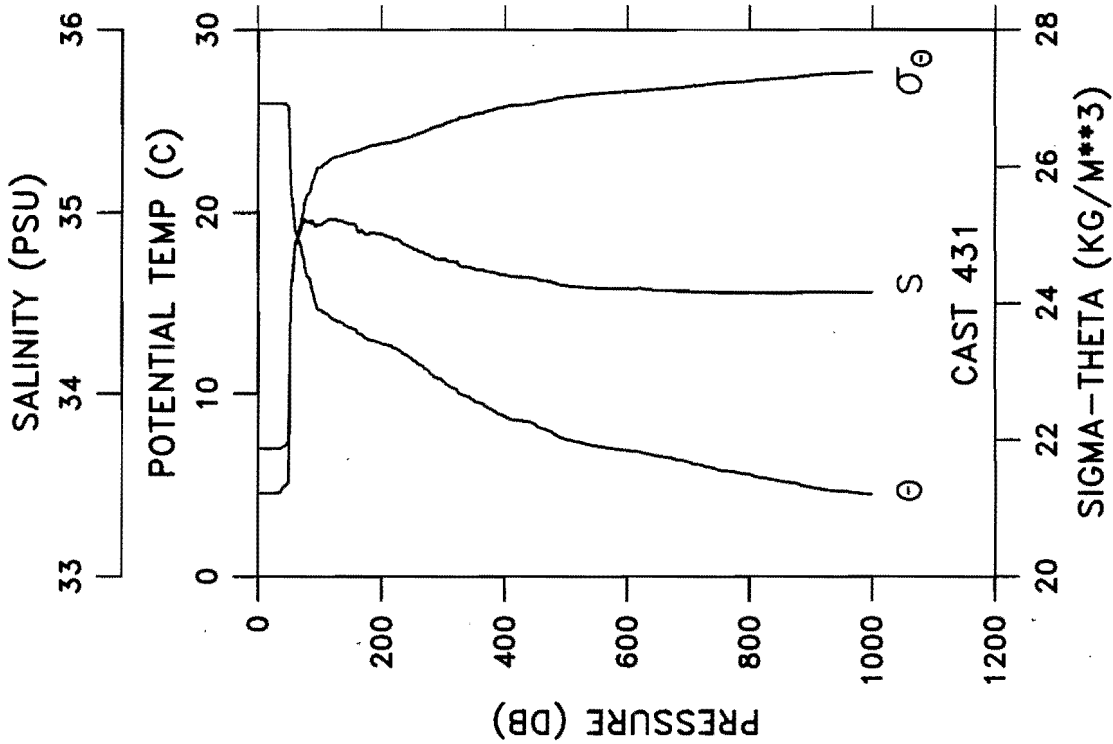
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-O (DYN-M)
0	25.503	33.690	22.200	0.000
10	25.500	33.690	22.202	0.056
20	25.501	33.690	22.201	0.112
30	25.497	33.693	22.204	0.169
40	25.457	33.712	22.231	0.225
50	20.405	34.465	24.247	0.276
60	17.414	34.812	25.272	0.307
70	16.476	34.930	25.585	0.332
80	15.125	34.943	25.901	0.355
90	14.904	34.945	25.951	0.376
100	14.624	34.963	26.026	0.396
110	14.249	34.970	26.112	0.416
120	14.034	34.968	26.156	0.435
130	13.828	34.956	26.190	0.454
140	13.737	34.955	26.208	0.472
150	13.658	34.951	26.221	0.490
160	13.508	34.941	26.245	0.509
170	13.354	34.929	26.267	0.527
180	13.239	34.918	26.282	0.545
190	13.097	34.905	26.300	0.562
200	13.010	34.901	26.315	0.580
250	12.307	34.845	26.410	0.666
300	11.191	34.762	26.556	0.747
350	10.717	34.748	26.630	0.822
400	9.563	34.688	26.782	0.893
450	8.473	34.643	26.922	0.957
500	7.959	34.623	26.985	1.016
550	7.465	34.601	27.039	1.072
600	6.966	34.591	27.102	1.126
650	6.331	34.579	27.178	1.177
700	5.902	34.574	27.229	1.224
750	5.535	34.566	27.268	1.270
800	5.296	34.557	27.290	1.314
900	4.856	34.555	27.339	1.399
1000	4.438	34.562	27.391	1.480
1001	4.438	34.562	27.391	1.481

CAST GP8-99-RB-0421 DATE 28 NOV 99 TIME 1253 GMT
 LAT 3 32.7N LONG 95 02.6W WEATHER 2 SEA STATE 4
 BAROMETER 12 WIND DIR 190 T SPD 18 KT VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 24.2 WET 21.7 DEPTH 3254 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	25.717	33.445	21.950	0.000
10	25.720	33.445	21.949	0.059
20	25.714	33.445	21.951	0.117
30	25.715	33.445	21.950	0.176
40	25.721	33.445	21.948	0.235
50	25.715	33.445	21.951	0.294
60	20.278	34.673	24.440	0.342
70	16.949	34.907	25.455	0.371
80	16.173	34.943	25.665	0.395
90	15.548	34.933	25.800	0.418
100	14.760	34.921	25.964	0.439
110	14.304	34.939	26.076	0.459
120	14.088	34.956	26.135	0.479
130	13.874	34.951	26.176	0.498
140	13.642	34.938	26.215	0.516
150	13.420	34.926	26.251	0.534
160	13.249	34.915	26.278	0.552
170	13.088	34.905	26.302	0.570
180	13.035	34.903	26.311	0.587
190	12.869	34.889	26.334	0.605
200	12.713	34.881	26.358	0.622
250	12.392	34.857	26.403	0.707
300	11.375	34.774	26.531	0.788
350	10.109	34.712	26.709	0.862
400	9.114	34.674	26.845	0.928
450	8.231	34.632	26.951	0.990
500	7.801	34.614	27.001	1.048
550	7.329	34.592	27.051	1.103
600	7.036	34.587	27.089	1.157
650	6.630	34.575	27.134	1.209
700	6.133	34.566	27.193	1.259
750	5.799	34.570	27.238	1.306
800	5.463	34.567	27.277	1.352
800	4.969	34.562	27.332	1.439
1000	4.493	34.568	27.390	1.521
1000	4.493	34.568	27.390	1.521

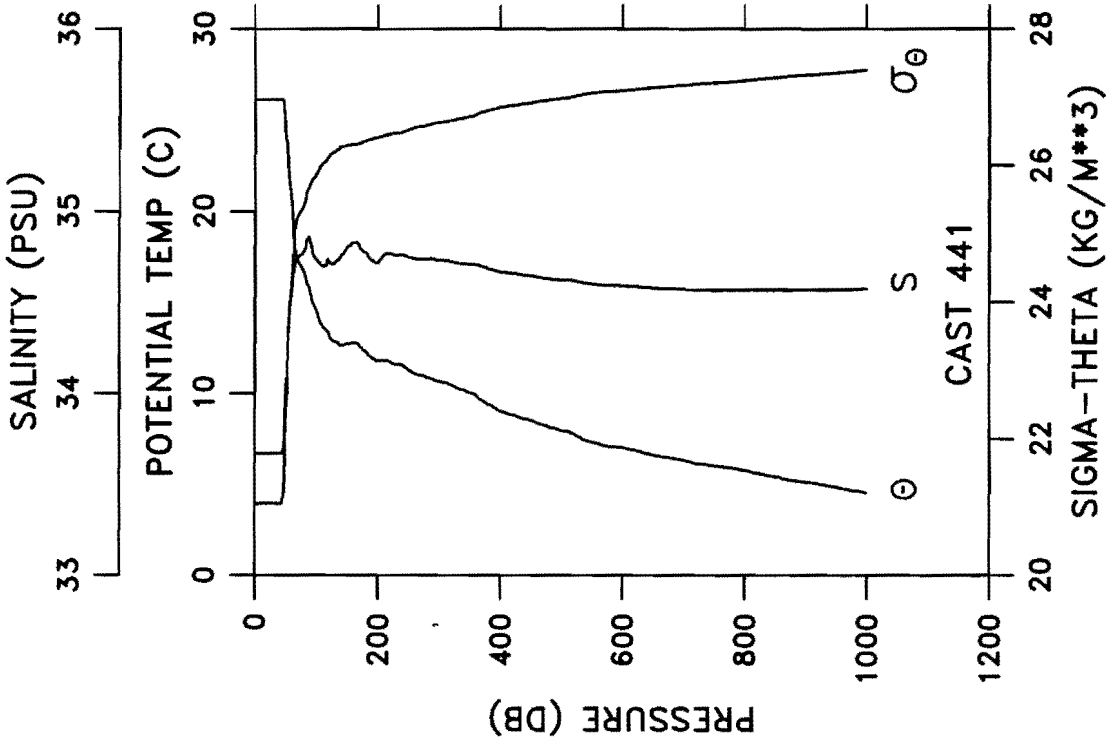


CAST GP8-99-RB-0431 DATE 28 NOV 99 TIME 2157 GMT
 LAT 4 00.2N LONG 95 00.1W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DIR 165 T SPD 13 KT VISIBILITY 8
 CLOUD 6 AMOUNT 8 DRY 25.0 WET 22.0 DEPTH 3470 M



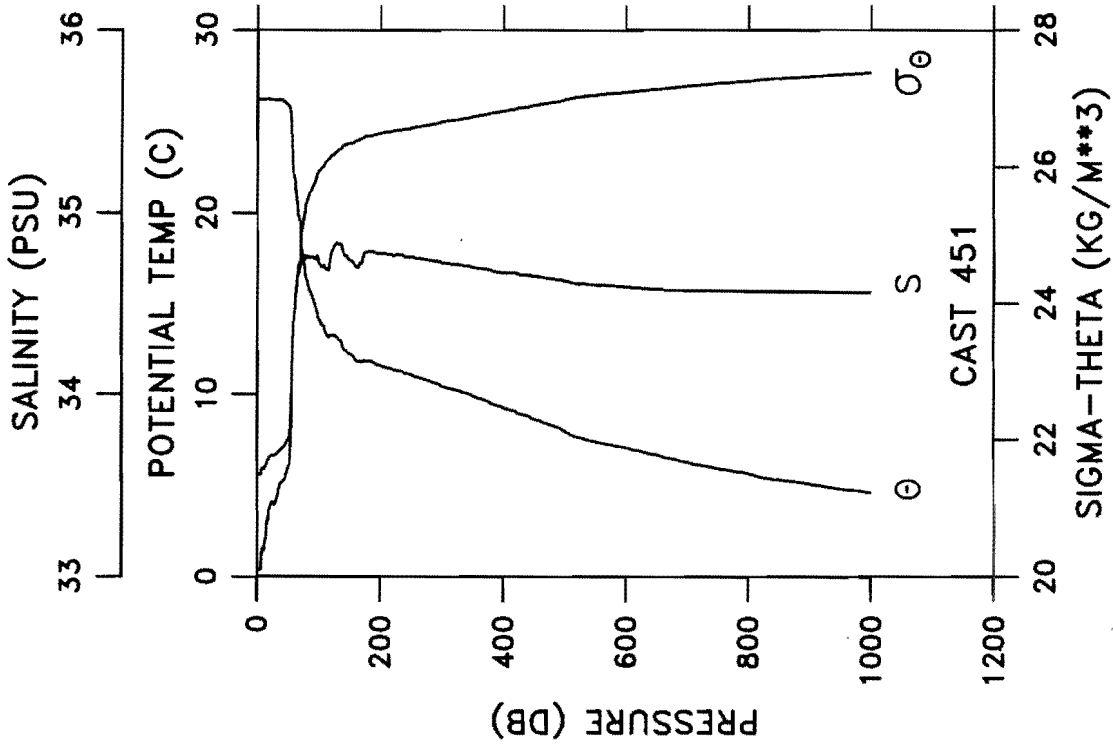
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.001	33.456	21.870	0.000
10	26.004	33.454	21.869	0.059
20	26.004	33.455	21.869	0.119
30	26.005	33.456	21.869	0.178
40	25.984	33.481	21.895	0.238
50	25.096	33.694	22.328	0.297
60	18.969	34.824	24.896	0.335
70	17.969	34.928	25.225	0.364
80	16.484	34.950	25.598	0.390
90	15.491	34.941	25.818	0.413
100	14.653	34.933	25.997	0.434
110	14.443	34.954	26.058	0.454
120	14.165	34.962	26.124	0.473
130	13.985	34.957	26.158	0.492
140	13.799	34.947	26.189	0.511
150	13.650	34.940	26.214	0.530
160	13.392	34.908	26.243	0.548
170	13.192	34.892	26.271	0.566
180	12.975	34.887	26.311	0.584
190	12.915	34.887	26.323	0.601
200	12.788	34.883	26.345	0.619
250	11.930	34.809	26.454	0.703
300	10.722	34.748	26.629	0.781
350	9.691	34.694	26.766	0.851
400	8.811	34.661	26.863	0.915
450	8.364	34.638	26.935	0.976
500	7.533	34.600	27.028	1.034
550	7.165	34.587	27.070	1.088
600	6.922	34.585	27.103	1.141
650	6.613	34.576	27.138	1.193
700	6.272	34.568	27.177	1.244
750	5.810	34.561	27.230	1.292
800	5.610	34.561	27.255	1.338
900	4.872	34.563	27.344	1.425
1000	4.503	34.568	27.389	1.506
1001	4.496	34.568	27.389	1.507

CAST GP8-99-RB-0441 DATE 29 NOV 99 TIME 0504 GMT
 LAT 5 02.6N LONG 94 57.1W WEATHER 2 SEA STATE 4
 BAROMETER 13 WIND DIR 200 T SPD 10 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 24.2 WET 22.5 DEPTH 3580 M



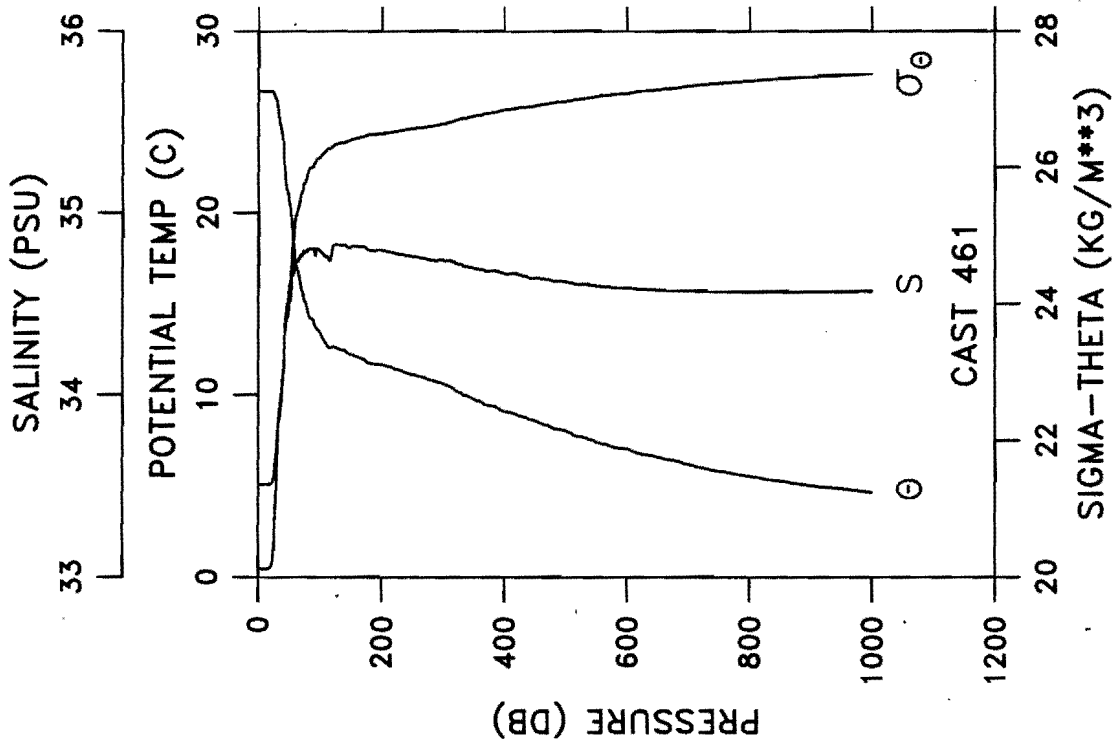
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.123	33.395	21.787	0.000
10	26.122	33.394	21.786	0.060
20	26.127	33.395	21.785	0.120
30	26.123	33.394	21.786	0.181
40	26.123	33.395	21.786	0.241
50	24.225	33.919	22.758	0.300
60	20.441	34.563	24.313	0.343
70	17.247	34.751	25.266	0.373
80	16.616	34.783	25.439	0.399
90	15.490	34.827	25.731	0.423
100	14.497	34.737	25.879	0.445
110	13.649	34.696	26.026	0.466
120	13.256	34.723	26.127	0.486
130	12.850	34.719	26.206	0.504
140	12.654	34.760	26.277	0.522
150	12.739	34.805	26.294	0.540
160	12.773	34.829	26.306	0.558
170	12.579	34.802	26.324	0.575
180	12.310	34.774	26.354	0.592
190	11.959	34.727	26.385	0.609
200	11.784	34.715	26.409	0.626
250	11.279	34.748	26.529	0.707
300	10.677	34.733	26.626	0.782
350	10.055	34.708	26.715	0.854
400	9.018	34.665	26.854	0.921
450	8.514	34.645	26.917	0.983
500	7.945	34.621	26.984	1.042
550	7.309	34.598	27.059	1.098
600	7.019	34.590	27.093	1.152
650	6.616	34.576	27.137	1.204
700	6.307	34.572	27.175	1.254
750	6.005	34.565	27.208	1.303
800	5.741	34.566	27.242	1.350
900	5.084	34.567	27.321	1.439
1000	4.510	34.573	27.392	1.522
1002	4.514	34.573	27.391	1.523

CAST GP8-99-RB-0451 DATE 29 NOV 99 TIME 1016 GMT
 LAT 6 00.0N LONG 95 00.0W WEATHER 2 SEA STATE 4
 BAROMETER 11 WIND DIR 135 T SPD 11 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 25.0 WET 23.0 DEPTH 3212 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.221	33.039	21.488	0.000
10	26.217	33.145	21.569	0.063
20	26.222	33.374	21.740	0.124
30	26.173	33.411	21.783	0.185
40	26.162	33.518	21.867	0.245
50	25.886	33.598	22.013	0.304
60	21.947	34.428	23.799	0.355
70	19.172	34.723	24.767	0.391
80	16.291	34.750	25.490	0.419
90	15.279	34.755	25.723	0.443
100	14.096	34.722	25.953	0.464
110	13.476	34.695	26.061	0.485
120	13.266	34.785	26.173	0.504
130	13.102	34.833	26.243	0.522
140	12.495	34.776	26.320	0.540
150	12.224	34.738	26.343	0.557
160	11.862	34.702	26.384	0.574
170	11.802	34.725	26.414	0.591
180	11.843	34.786	26.453	0.607
190	11.733	34.783	26.472	0.623
200	11.598	34.778	26.493	0.639
250	11.085	34.756	26.570	0.716
300	10.449	34.725	26.660	0.791
350	9.902	34.701	26.735	0.861
400	9.267	34.671	26.817	0.928
450	8.623	34.650	26.904	0.992
500	7.972	34.624	26.983	1.052
550	7.387	34.602	27.051	1.108
600	7.048	34.591	27.090	1.162
650	6.675	34.581	27.133	1.214
700	6.253	34.572	27.182	1.264
750	5.906	34.570	27.225	1.312
800	5.624	34.566	27.257	1.358
900	5.048	34.564	27.324	1.446
1000	4.577	34.565	27.379	1.529
1001	4.578	34.565	27.378	1.530

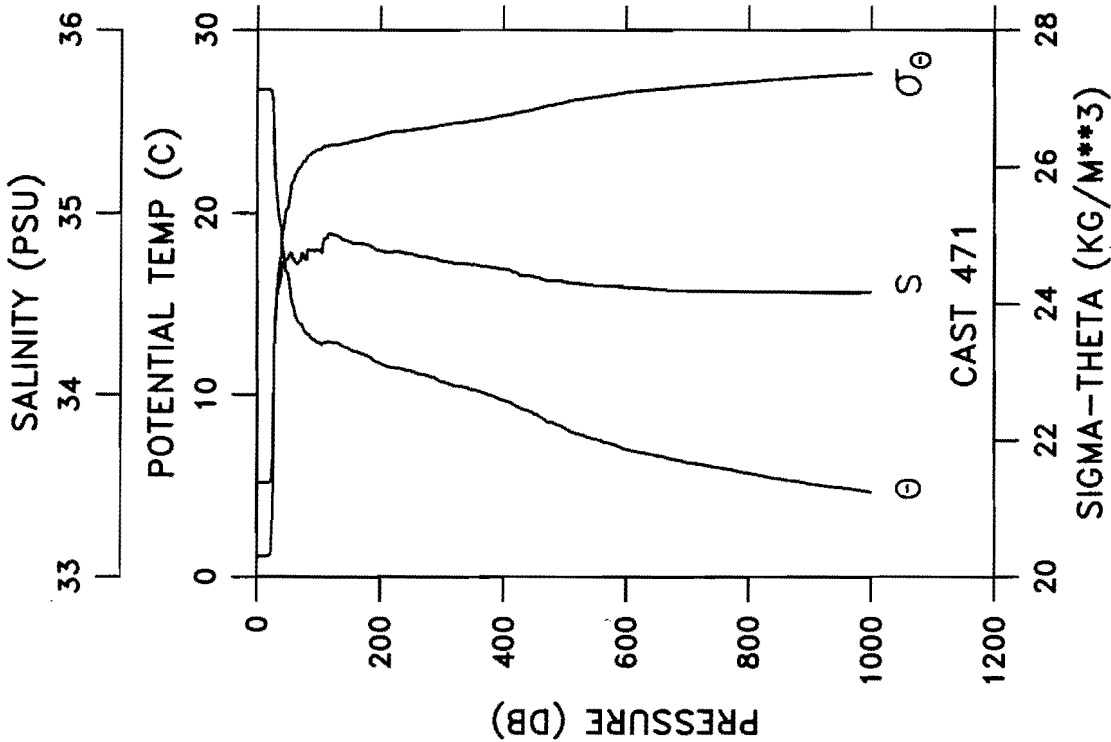
CAST 461-99-RB-0461 DATE 29 NOV 99 TIME 1548 GMT
 LAT 7 00.0N LONG 95 00.0W WEATHER 1 SEA STATE 8
 BAROMETER 14 WIND DIR 145 T SPD 03 KT VISIBILITY 4
 CLOUD 8 AMOUNT 3 DRY 27.2 WET 24.5 DEPTH 3679 M



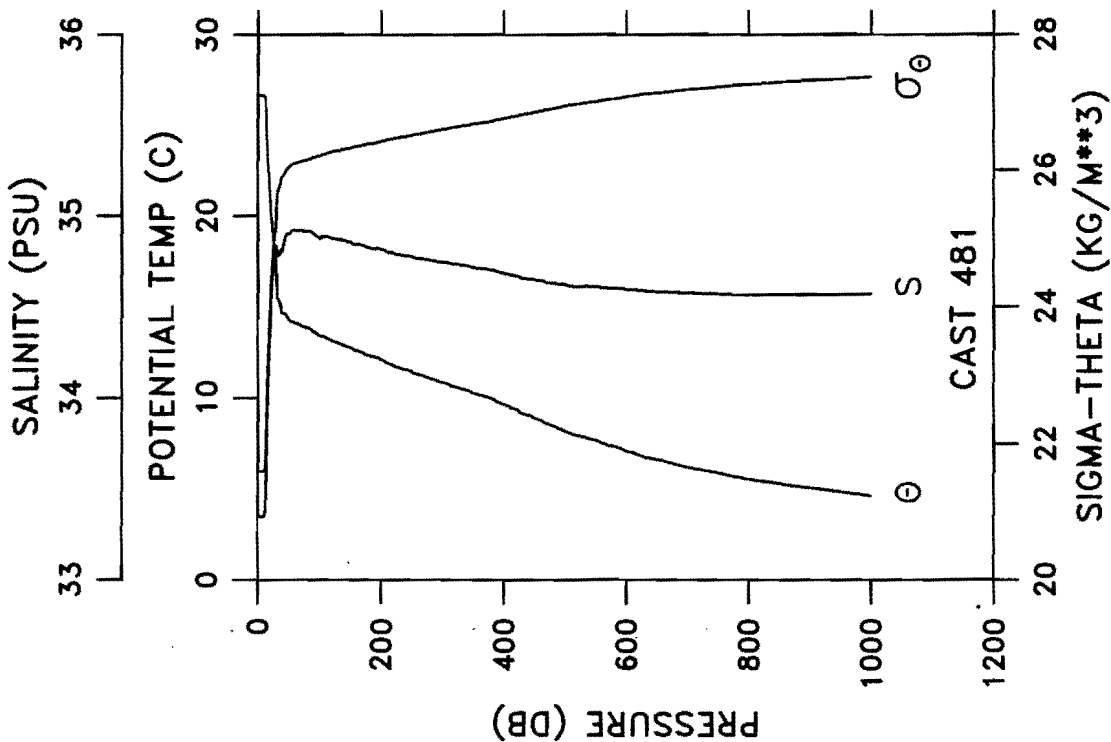
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.682	33.048	21.350	0.000
10	26.670	33.045	21.352	0.064
20	26.674	33.056	21.359	0.129
30	26.151	33.640	21.963	0.191
40	23.997	34.089	22.954	0.244
50	20.487	34.514	24.263	0.286
60	17.154	34.726	25.268	0.318
70	15.765	34.763	25.619	0.344
80	14.520	34.793	25.918	0.366
90	13.940	34.798	26.044	0.386
100	13.429	34.791	26.144	0.406
110	12.795	34.780	26.249	0.424
120	12.640	34.800	26.310	0.442
130	12.530	34.823	26.350	0.459
140	12.449	34.823	26.365	0.476
150	12.213	34.811	26.402	0.492
160	12.092	34.815	26.428	0.509
170	11.964	34.815	26.452	0.525
180	11.745	34.794	26.478	0.541
190	11.688	34.791	26.486	0.557
200	11.652	34.793	26.494	0.573
250	11.116	34.759	26.568	0.650
300	10.605	34.739	26.643	0.725
350	9.774	34.697	26.754	0.796
400	9.095	34.664	26.840	0.862
450	8.587	34.642	26.903	0.925
500	8.056	34.623	26.970	0.984
550	7.411	34.598	27.044	1.041
600	7.051	34.588	27.087	1.095
650	6.600	34.577	27.141	1.147
700	6.183	34.573	27.192	1.197
750	5.799	34.567	27.236	1.244
800	5.522	34.565	27.268	1.290
900	4.998	34.565	27.331	1.377
1000	4.614	34.568	27.377	1.460
1002	4.601	34.567	27.378	1.461

CAST GP8-99-RB-0471 DATE 30 NOV 99 TIME 0738 GMT
 LAT 8 04.3N LONG 94 57.2W WEATHER 1 SEA STATE 8
 BAROMETER 12 WIND DIR 048 T SPD 10 KT VISIBILITY 4
 CLOUD 8 AMOUNT 1 DRY 27.0 WET 25.0 DEPTH 3655 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.747	33.112	21.379	0.000
10	26.755	33.114	21.377	0.064
20	26.752	33.118	21.382	0.128
30	21.736	34.394	23.832	0.184
40	18.376	34.729	24.972	0.219
50	16.647	34.748	25.405	0.247
60	14.676	34.744	25.846	0.270
70	13.871	34.737	26.012	0.291
80	13.326	34.744	26.129	0.310
90	13.065	34.792	26.219	0.329
100	12.869	34.793	26.259	0.347
110	12.882	34.861	26.309	0.364
120	12.888	34.885	26.327	0.381
130	12.845	34.874	26.327	0.399
140	12.659	34.854	26.348	0.416
150	12.514	34.843	26.368	0.433
160	12.383	34.832	26.386	0.450
170	12.274	34.830	26.405	0.466
180	12.139	34.823	26.426	0.483
190	11.879	34.802	26.459	0.499
200	11.735	34.792	26.478	0.515
250	11.331	34.776	26.541	0.593
300	10.741	34.736	26.617	0.669
350	10.309	34.717	26.678	0.742
400	9.717	34.692	26.760	0.812
450	8.944	34.649	26.852	0.879
500	8.175	34.620	26.949	0.940
550	7.571	34.603	27.025	0.998
600	7.017	34.591	27.094	1.053
650	6.658	34.580	27.135	1.105
700	6.262	34.570	27.180	1.155
750	5.993	34.569	27.213	1.203
800	5.687	34.566	27.249	1.250
900	5.081	34.562	27.318	1.339
1000	4.630	34.566	27.374	1.422
1001	4.637	34.566	27.373	1.423



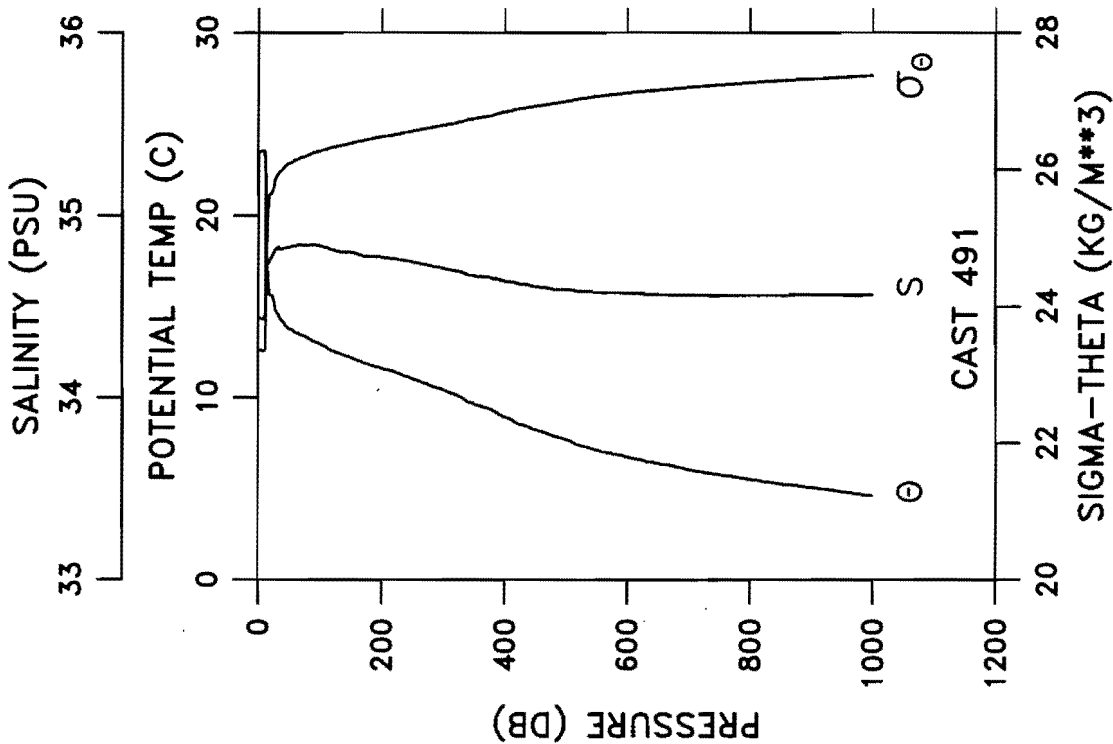
CAST GP8-99-RB-0481 DATE 01 DEC 99 TIME 0348 GMT
 LAT 8 59.9N LONG 95 00.0W WEATHER 1 SEA STATE 5
 BAROMETER 15 WIND DIR 036 T SPD 13 KT VISIBILITY 8
 CLOUD 4 AMOUNT 8 DRY 25.4 WET 24.0 DEPTH 3540 M



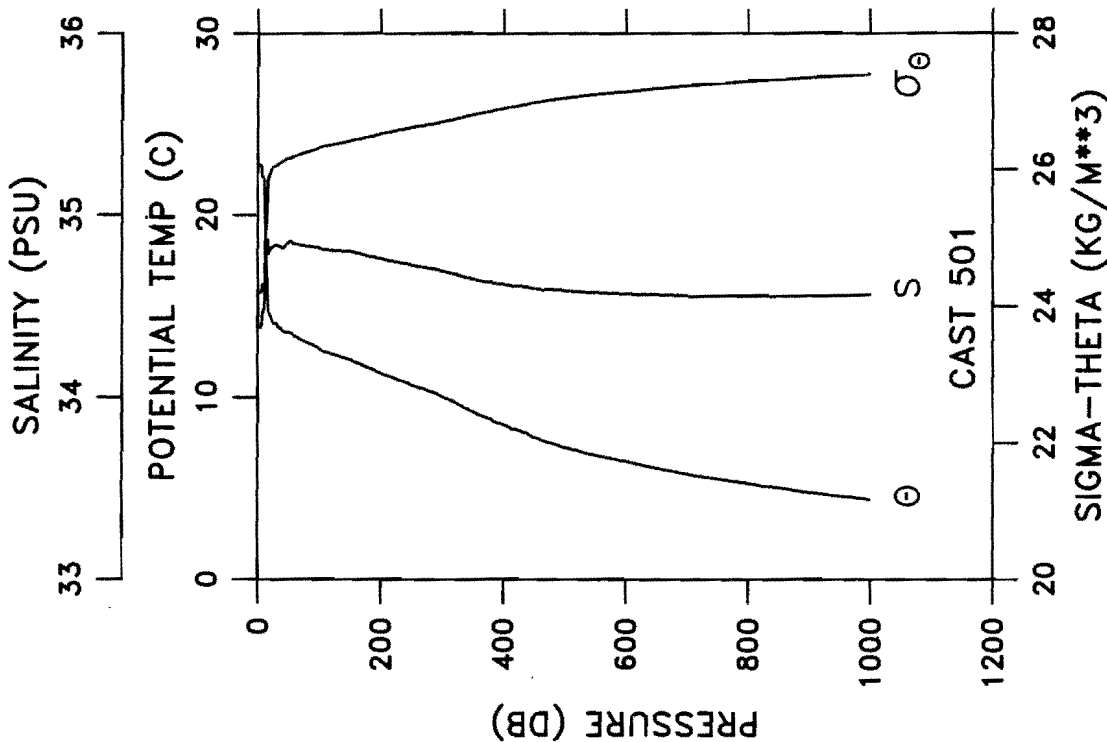
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.639	33.352	21.594	0.000
10	26.628	33.352	21.597	0.062
20	21.203	34.367	23.958	0.114
30	17.155	34.835	25.352	0.145
40	14.634	34.815	25.910	0.168
50	14.307	34.900	26.045	0.188
60	14.109	34.921	26.103	0.208
70	13.975	34.918	26.130	0.227
80	13.853	34.916	26.154	0.245
90	13.621	34.900	26.190	0.264
100	13.406	34.874	26.214	0.282
110	13.307	34.888	26.245	0.301
120	13.120	34.875	26.272	0.318
130	12.992	34.868	26.293	0.336
140	12.889	34.864	26.310	0.354
150	12.769	34.853	26.326	0.371
160	12.603	34.841	26.349	0.388
170	12.501	34.837	26.366	0.405
180	12.344	34.825	26.388	0.422
190	12.239	34.817	26.402	0.439
200	12.119	34.815	26.424	0.455
250	11.464	34.776	26.516	0.536
300	10.860	34.745	26.602	0.612
350	10.290	34.715	26.680	0.686
400	9.659	34.683	26.763	0.756
450	8.913	34.649	26.857	0.822
500	8.192	34.623	26.949	0.883
550	7.705	34.612	27.013	0.942
600	7.073	34.594	27.089	0.997
650	6.628	34.581	27.140	1.049
700	6.205	34.575	27.191	1.098
750	5.887	34.570	27.227	1.146
800	5.542	34.565	27.266	1.192
900	5.074	34.566	27.323	1.280
1000	4.601	34.568	27.378	1.363
1002	4.595	34.567	27.378	1.364

CAST GP8-99-RB-0491 DATE 01 DEC 99 TIME 1004 GMT
 LAT 9 56.8N LONG 94 59.9W WEATHER 1 SEA STATE 4
 BAROMETER 10 WIND DIR 030 T SPD 10 KT VISIBILITY 8
 CLOUD 3 AMOUNT 1 DRY 25.0 WET 23.0 DEPTH 3861 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.503	34.438	23.363	0.000
10	23.500	34.442	23.368	0.045
20	15.629	34.763	25.650	0.076
30	14.680	34.820	25.904	0.098
40	14.171	34.818	26.011	0.119
50	13.791	34.828	26.098	0.138
60	13.579	34.831	26.145	0.157
70	13.418	34.837	26.183	0.176
80	13.257	34.837	26.215	0.194
90	13.083	34.838	26.251	0.212
100	12.945	34.833	26.275	0.230
110	12.797	34.826	26.299	0.248
120	12.567	34.811	26.333	0.265
130	12.449	34.804	26.351	0.282
140	12.315	34.797	26.372	0.299
150	12.216	34.798	26.392	0.316
160	12.050	34.788	26.416	0.332
170	11.913	34.776	26.432	0.348
180	11.798	34.775	26.453	0.365
190	11.698	34.775	26.472	0.381
200	11.601	34.772	26.487	0.397
250	11.043	34.747	26.571	0.474
300	10.411	34.711	26.656	0.549
350	9.653	34.669	26.753	0.619
400	8.930	34.641	26.849	0.685
450	8.248	34.610	26.931	0.747
500	7.693	34.594	27.001	0.805
550	7.096	34.580	27.075	0.860
600	6.717	34.575	27.123	0.913
650	6.362	34.569	27.165	0.963
700	6.021	34.562	27.204	1.012
750	5.746	34.564	27.240	1.059
800	5.480	34.563	27.272	1.104
900	5.041	34.567	27.327	1.192
1000	4.604	34.566	27.376	1.274
1001	4.612	34.565	27.375	1.275



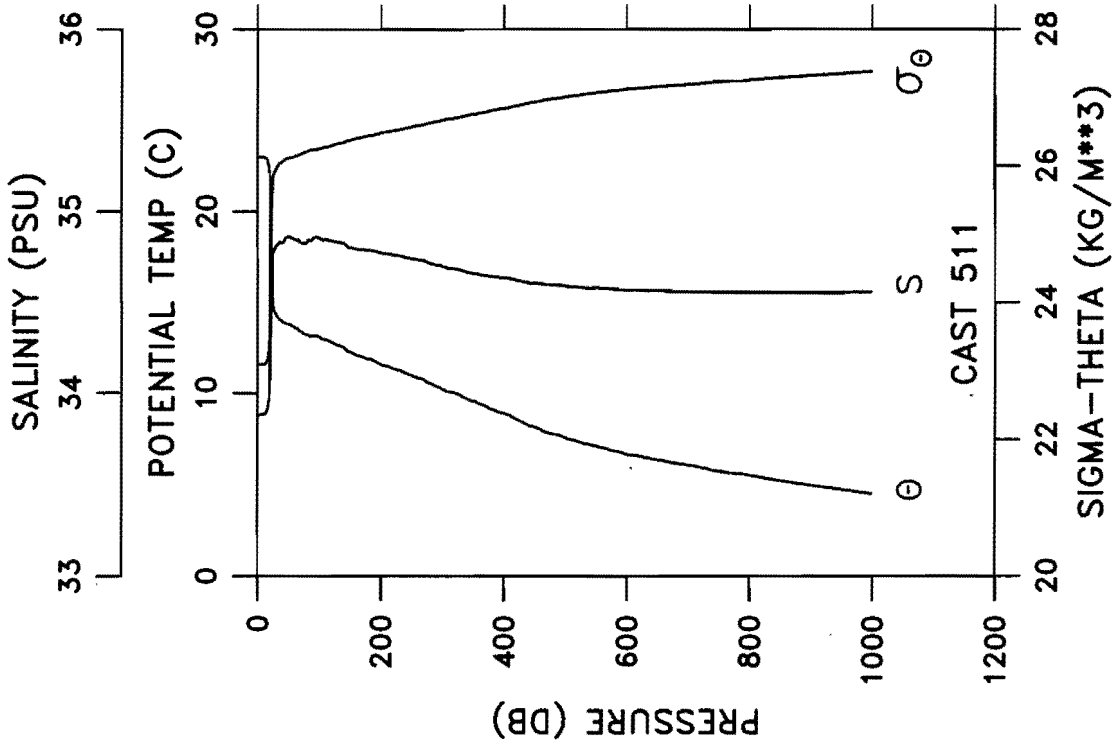
CAST CP8-99-RB-0501 DATE 02 DEC 99 TIME 0010 GMT
 LAT 11 00.1N LONG 95 00.0W WEATHER 0 SEA STATE 5
 BAROMETER 14 WIND DIR 020 T SPD 12 KT VISIBILITY 7
 CLOUD AMOUNT 1 DRY 23.8 WET 21.8 DEPTH 4083 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	22.727	34.574	23.690	0.000
10	21.915	34.618	23.952	0.041
20	14.504	34.808	25.932	0.068
30	14.043	34.835	26.051	0.088
40	13.664	34.817	26.116	0.107
50	13.578	34.853	26.162	0.126
60	13.353	34.840	26.198	0.145
70	13.168	34.832	26.230	0.163
80	13.023	34.828	26.256	0.181
90	12.885	34.824	26.280	0.198
100	12.655	34.818	26.321	0.216
110	12.486	34.809	26.347	0.233
120	12.396	34.805	26.362	0.250
130	12.299	34.805	26.381	0.266
140	12.182	34.800	26.399	0.283
150	12.071	34.800	26.421	0.300
160	11.915	34.792	26.445	0.316
170	11.788	34.784	26.462	0.332
180	11.632	34.774	26.484	0.348
190	11.509	34.769	26.503	0.364
200	11.329	34.761	26.530	0.379
250	10.675	34.724	26.619	0.455
300	10.046	34.692	26.704	0.527
350	9.234	34.651	26.807	0.594
400	8.517	34.621	26.898	0.657
450	7.824	34.597	26.984	0.717
500	7.262	34.584	27.055	0.772
550	6.827	34.573	27.107	0.825
600	6.495	34.568	27.147	0.876
650	6.123	34.564	27.192	0.925
700	5.782	34.558	27.231	0.972
750	5.515	34.557	27.263	1.018
800	5.261	34.557	27.294	1.062
900	4.789	34.557	27.348	1.147
1000	4.379	34.563	27.398	1.227
1002	4.377	34.562	27.398	1.229

CAST GP8-99-RB-0511 DATE 02 DEC 99 TIME 0644 GMT
 LAT 12 00.0N LONG 95 00.0W WEATHER 0 SEA STATE 5
 BAROMETER 15 WIND DIR 015 T SPD 16 KT VISIBILITY 7
 CLOUD AMOUNT DRY 23.0 WET 21.0 DEPTH 4028 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	23.010	33.885	23.087	0.000
10	23.001	33.886	23.090	0.048
20	21.719	34.045	23.571	0.094
30	14.374	34.816	25.966	0.119
40	13.949	34.829	26.067	0.139
50	13.811	34.862	26.121	0.158
60	13.633	34.846	26.145	0.177
70	13.405	34.829	26.179	0.196
80	13.211	34.832	26.221	0.214
90	13.186	34.856	26.244	0.232
100	13.113	34.855	26.258	0.250
110	12.972	34.848	26.281	0.267
120	12.814	34.838	26.305	0.285
130	12.643	34.830	26.333	0.302
140	12.530	34.825	26.351	0.319
150	12.283	34.800	26.380	0.336
160	12.097	34.792	26.410	0.353
170	12.011	34.792	26.426	0.369
180	11.892	34.786	26.444	0.386
190	11.776	34.782	26.463	0.402
200	11.592	34.772	26.489	0.418
250	10.995	34.741	26.575	0.495
300	10.218	34.696	26.677	0.569
350	9.565	34.660	26.760	0.638
400	8.932	34.637	26.845	0.704
450	8.174	34.609	26.941	0.766
500	7.604	34.592	27.012	0.823
550	7.125	34.580	27.071	0.878
600	6.661	34.570	27.126	0.931
650	6.375	34.567	27.162	0.981
700	6.078	34.561	27.196	1.030
750	5.741	34.556	27.234	1.078
800	5.523	34.557	27.262	1.124
900	4.973	34.555	27.326	1.211
1000	4.520	34.561	27.382	1.294
1002	4.495	34.561	27.384	1.295



CAST GP8-99-RB-0011 LAT 8 02.6N LONG 110 08.3W CAST GP8-99-RB-0031 LAT 6 00.0N LONG 110 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.151	33.280	27.150	21.377	3.	26.710	33.367	26.709	21.583
25.	27.060	33.313	27.054	21.429	10.	26.705	33.367	26.703	21.583
101.	13.885	34.780	13.870	26.045	24.	26.698	33.367	26.693	21.586
600.	6.706	34.562	6.650	27.123	40.	26.698	33.367	26.688	21.586
					60.	24.512	34.314	24.499	22.967
					98.	13.666	34.759	13.652	26.072
					150.	11.920	34.775	11.901	26.433
					200.	11.095	34.734	11.070	26.563
					403.	8.969	34.654	8.925	26.861
					600.	6.893	34.580	6.836	27.110
					801.	5.440	34.561	5.371	27.283
					1001.	4.497	34.567	4.417	27.398

CAST GP8-99-RB-0021 LAT 7 00.4N LONG 110 00.3W CAST GP8-99-RB-0041 LAT 4 59.9N LONG 109 59.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	26.855	33.165	26.855	21.385	2.	25.149	34.068	25.149	22.593
10.	26.862	33.168	26.859	21.383	11.	25.152	34.067	25.149	22.592
25.	26.758	33.226	26.753	21.464	26.	25.129	34.069	25.123	22.599
101.	14.453	34.760	14.438	25.912	41.	23.316	34.252	23.307	23.274
150.	12.080	34.782	12.060	26.409	59.	21.383	34.537	21.371	24.039
601.	6.781	34.577	6.724	27.124	100.	17.190	34.714	17.174	25.251
801.	5.496	34.562	5.428	27.277	149.	12.267	34.731	12.247	26.335
					201.	10.798	34.704	10.774	26.582
					600.	6.689	34.576	6.633	27.134
					799.	5.269	34.559	5.202	27.301
					1000.	4.428	34.566	4.349	27.404

CAST GP8-99-RB-0051 LAT 4 00.1N LONG 110 00.0W										CAST GP8-99-RB-0071 LAT 2 30.0N LONG 110 08.6W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	24.829	34.089	24.829	22.708	10.	24.837	33.895	24.835	22.559										
11.	24.829	34.089	24.827	22.707	27.	24.815	33.903	24.809	22.572										
26.	24.841	34.090	24.835	22.705	27.	24.817	33.904	24.811	22.571										
40.	24.828	34.106	24.820	22.717	39.	24.544	33.953	24.536	22.690										
59.	23.199	34.241	23.187	23.303	60.	19.434	34.662	19.423	24.622										
100.	14.097	34.737	14.082	25.964	99.	13.665	34.947	13.651	26.224										
149.	13.142	34.906	13.121	26.297	150.	13.289	34.923	13.269	26.280										
201.	12.376	34.851	12.350	26.407	201.	12.878	34.904	12.850	26.351										
399.	9.213	34.669	9.168	26.833	399.	9.547	34.683	9.502	26.789										
603.	6.626	34.570	6.570	27.139	602.	6.739	34.567	6.683	27.122										
800.	5.406	34.555	5.338	27.282	801.	5.518	34.561	5.449	27.274										
1002.	4.517	34.561	4.437	27.390	1001.	4.425	34.564	4.346	27.403										

CAST GP8-99-RB-0061 LAT 3 00.0N LONG 110 00.0W										CAST GP8-99-RB-0081 LAT 2 06.2N LONG 110 18.5W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	24.498	33.966	24.497	22.713	3.	25.036	33.918	25.035	22.502										
10.	24.503	33.965	24.501	22.712	10.	25.045	33.917	25.043	22.500										
25.	24.497	33.967	24.492	22.716	26.	24.984	33.923	24.979	22.522										
42.	24.450	33.975	24.441	22.733	39.	21.397	34.510	21.389	24.007										
60.	20.494	34.649	20.483	24.351	60.	14.377	34.952	14.368	26.074										
99.	14.101	34.935	14.087	26.119	100.	13.527	34.943	13.513	26.246										
149.	12.985	34.907	12.965	26.330	151.	12.969	34.913	12.948	26.338										
200.	12.779	34.900	12.752	26.368	200.	12.730	34.901	12.703	26.376										
401.	8.903	34.654	8.860	26.872	400.	9.160	34.671	9.116	26.838										
600.	6.526	34.569	6.471	27.153	600.	6.756	34.578	6.700	27.123										
1000.	4.574	34.561	4.494	27.385	801.	5.247	34.559	5.180	27.298										
1000.	4.575	34.563	4.495	27.384	1004.	4.295	34.576	4.217	27.420										

CAST GP8-99-RB-0091 LAT 1 29.9N LONG 110 07.3W CAST GP8-99-RB-0111 LAT 0 30.3N LONG 109 59.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	24.253	33.832	24.252	22.684	3.	21.160	34.624	21.160	24.167
10.	24.258	33.833	24.256	22.682	9.	21.081	34.624	21.080	24.187
25.	24.265	33.848	24.260	22.674	25.	19.180	34.605	19.176	24.676
40.	20.698	34.477	20.691	24.171	41.	16.596	34.823	16.590	25.473
60.	15.374	34.929	15.365	25.837	59.	14.943	34.908	14.935	25.908
100.	13.487	34.929	13.473	26.242	100.	13.553	34.887	13.539	26.198
149.	13.018	34.919	12.998	26.332	150.	12.900	34.883	12.880	26.327
201.	12.767	34.902	12.740	26.370	199.	12.692	34.893	12.665	26.379
400.	8.881	34.653	8.838	26.873	401.	8.683	34.654	8.640	26.905
600.	6.751	34.571	6.694	27.125	600.	6.552	34.566	6.497	27.146
800.	5.425	34.550	5.357	27.276	800.	5.584	34.549	5.515	27.256
1003.	4.341	34.560	4.262	27.408	1002.	4.422	34.560	4.343	27.398

CAST GP8-99-RB-0101 LAT 1 00.1N LONG 110 00.1W CAST GP8-99-RB-0121 LAT 0 03.2N LONG 110 03.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	22.450	34.228	22.450	23.505	3.	20.933	34.722	20.933	24.304
10.	22.445	34.233	22.443	23.513	10.	20.938	34.723	20.937	24.303
24.	21.853	34.481	21.848	23.857	25.	18.272	34.761	18.268	25.003
39.	21.675	34.514	21.668	23.931	39.	15.997	34.854	15.991	25.647
60.	15.831	34.882	15.822	25.698	61.	14.653	34.930	14.644	26.000
99.	13.428	34.910	13.414	26.240	101.	13.720	34.895	13.706	26.166
150.	12.997	34.914	12.977	26.332	148.	13.182	34.898	13.162	26.284
200.	12.727	34.901	12.700	26.377	200.	12.717	34.895	12.690	26.374
400.	8.524	34.645	8.482	26.921	1000.	4.597	34.554	4.516	27.375
600.	6.465	34.566	6.410	27.154	1998.	2.291	34.641	2.151	27.670
799.	5.403	34.548	5.335	27.277	3001.	1.704	34.675	1.483	27.749
1000.	4.291	34.562	4.213	27.414	3774.	1.466	34.690	1.173	27.784

CAST GP8-99-RB-0131 LAT 0 29.6S LONG 110 00.4W CAST GP8-99-RB-0151 LAT 1 30.0S LONG 109 59.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	20.875	34.738	20.875	24.332	3.	21.506	34.718	21.506	24.143
9.	20.819	34.739	20.818	24.347	9.	21.464	34.716	21.462	24.154
25.	19.942	34.756	19.937	24.596	25.	21.086	34.761	21.082	24.288
39.	18.315	34.860	18.309	25.086	40.	19.448	34.912	19.441	24.845
60.	17.447	34.988	17.437	25.407	61.	15.529	35.015	15.520	25.867
100.	13.618	34.936	13.603	26.226	100.	13.482	34.963	13.468	26.271
151.	12.747	34.892	12.727	26.367	151.	12.877	34.918	12.857	26.361
200.	12.612	34.891	12.585	26.394	201.	12.593	34.895	12.566	26.402
399.	9.305	34.690	9.260	26.834	401.	8.925	34.678	8.881	26.886
600.	6.700	34.568	6.644	27.128	599.	6.450	34.563	6.395	27.156
802.	5.650	34.549	5.580	27.248	801.	5.295	34.547	5.228	27.288
1000.	4.589	34.554	4.509	27.376	1001.	4.567	34.552	4.487	27.377

CAST GP8-99-RB-0141 LAT 0 59.7S LONG 110 00.0W CAST GP8-99-RB-0161 LAT 2 03.0S LONG 109 57.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	21.070	34.736	21.070	24.277	2.	22.209	34.730	22.209	23.956
10.	21.070	34.738	21.068	24.277	11.	22.156	34.730	22.154	23.972
24.	20.633	34.769	20.628	24.415	26.	22.044	34.753	22.038	24.021
40.	19.680	34.797	19.672	24.694	41.	19.995	34.975	19.988	24.730
61.	18.167	34.972	18.157	25.211	60.	14.563	35.033	14.554	26.095
100.	13.817	34.992	13.803	26.225	100.	13.715	34.978	13.701	26.237
150.	12.974	34.922	12.954	26.347	151.	13.281	34.948	13.260	26.303
399.	9.648	34.717	9.602	26.799	202.	12.810	34.913	12.783	26.371
600.	6.550	34.563	6.495	27.145	400.	9.137	34.695	9.093	26.864
801.	5.270	34.544	5.203	27.290	601.	6.476	34.569	6.421	27.157
1001.	4.409	34.557	4.330	27.399	801.	5.159	34.547	5.093	27.305
					1000.	4.423	34.561	4.344	27.399

CAST GP8-99-RB-0171 LAT 2 30.0S LONG 109 59.0W										CAST GP8-99-RB-0191 LAT 4 00.0S LONG 110 00.0W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)			
2.	22.315	34.757	22.314	23.947		2.	23.045	35.035	23.045	23.950		2.	23.045	35.035	23.045	23.950			
10.	22.312	34.759	22.309	23.948		9.	23.042	35.035	23.041	23.951		9.	23.042	35.035	23.041	23.951			
24.	22.130	34.813	22.125	24.005		26.	23.060	35.048	23.055	23.956		26.	23.060	35.048	23.055	23.956			
41.	16.646	35.055	16.640	25.640		41.	22.583	35.118	22.575	24.130		41.	22.583	35.118	22.575	24.130			
61.	14.862	35.033	14.853	26.030		60.	18.706	35.049	18.696	25.111		60.	18.706	35.049	18.696	25.111			
100.	13.908	34.993	13.894	26.207		99.	14.122	35.006	14.108	26.171		99.	14.122	35.006	14.108	26.171			
151.	13.274	34.950	13.253	26.303		149.	13.358	34.957	13.337	26.294		149.	13.358	34.957	13.337	26.294			
201.	12.757	34.908	12.729	26.379		201.	12.804	34.914	12.777	26.372		201.	12.804	34.914	12.777	26.372			
399.	9.300	34.698	9.255	26.842		401.	9.925	34.739	9.878	26.767		401.	9.925	34.739	9.878	26.767			
600.	6.454	34.563	6.399	27.154		600.	6.670	34.569	6.614	27.133		600.	6.670	34.569	6.614	27.133			
799.	5.286	34.546	5.219	27.290		801.	5.321	34.547	5.253	27.287		801.	5.321	34.547	5.253	27.287			
1000.	4.348	34.553	4.269	27.402		999.	4.511	34.553	4.432	27.383		999.	4.511	34.553	4.432	27.383			

CAST GP8-99-RB-0181 LAT 3 00.1S LONG 110 00.1W										CAST GP8-99-RB-0201 LAT 4 59.9S LONG 110 00.4W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)			
3.	21.990	34.737	21.989	24.024		3.	23.570	35.356	23.570	24.041		3.	23.570	35.356	23.570	24.041			
11.	21.984	34.737	21.982	24.025		9.	23.569	35.358	23.567	24.042		9.	23.569	35.358	23.567	24.042			
24.	21.888	34.737	21.883	24.053		25.	23.568	35.355	23.563	24.040		25.	23.568	35.355	23.563	24.040			
40.	17.097	35.091	17.090	25.558		38.	23.326	35.281	23.318	24.046		38.	23.326	35.281	23.318	24.046			
62.	14.655	35.044	14.646	26.084		61.	22.162	34.946	22.150	24.132		61.	22.162	34.946	22.150	24.132			
100.	13.655	34.976	13.641	26.246		100.	14.620	35.022	14.606	26.080		100.	14.620	35.022	14.606	26.080			
150.	13.119	34.933	13.098	26.325		150.	13.213	34.944	13.192	26.313		150.	13.213	34.944	13.192	26.313			
201.	12.716	34.907	12.689	26.385		199.	12.788	34.912	12.762	26.374		199.	12.788	34.912	12.762	26.374			
401.	9.087	34.687	9.043	26.868		399.	9.946	34.737	9.900	26.766		399.	9.946	34.737	9.900	26.766			
601.	6.507	34.567	6.452	27.153		600.	7.050	34.588	6.992	27.095		600.	7.050	34.588	6.992	27.095			
798.	5.279	34.546	5.212	27.291		800.	5.423	34.542	5.355	27.270		800.	5.423	34.542	5.355	27.270			
1000.	4.489	34.553	4.410	27.386		1000.	4.496	34.548	4.417	27.382		1000.	4.496	34.548	4.417	27.382			

CAST GP8-99-RB-0211 LAT 6 00.0S LONG 110 00.0W CAST GP8-99-RB-0231 LAT 7 59.1S LONG 109 56.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	22.899	34.968	22.898	23.941	3.	23.067	35.050	23.066	23.955
10.	22.905	34.967	22.903	23.939	9.	23.056	35.050	23.054	23.959
25.	22.912	34.970	22.907	23.939	24.	23.064	35.050	23.059	23.957
40.	22.788	35.017	22.780	24.012	41.	23.025	35.034	23.016	23.956
59.	22.482	34.959	22.470	24.055	60.	22.845	34.965	22.833	23.960
100.	17.597	35.204	17.580	25.535	99.	21.795	35.029	21.776	24.292
151.	13.345	34.953	13.324	26.294	149.	14.105	35.010	14.083	26.178
201.	12.410	34.911	12.384	26.448	200.	12.616	34.921	12.589	26.413
400.	9.827	34.733	9.781	26.781	1000.	4.609	34.539	4.528	27.362
600.	7.132	34.591	7.074	27.087	2000.	2.276	34.637	2.136	27.669
799.	5.390	34.543	5.322	27.274	2999.	1.761	34.676	1.538	27.746
999.	4.486	34.556	4.407	27.388	3538.	1.620	34.683	1.347	27.765

CAST GP8-99-RB-0221 LAT 7 00.0S LONG 110 00.0W CAST GP8-99-RB-0241 LAT 8 00.4S LONG 95 07.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	23.207	35.125	23.206	23.971	3.	22.195	34.966	22.195	24.139
10.	23.184	35.123	23.181	23.977	9.	22.177	34.971	22.175	24.146
25.	23.143	35.125	23.138	23.990	25.	22.152	34.991	22.147	24.176
41.	23.147	35.134	23.139	23.997	41.	22.038	35.015	22.030	24.217
59.	23.077	35.148	23.065	24.029	59.	19.696	35.153	19.685	24.948
100.	21.728	34.942	21.708	24.232	101.	14.097	35.028	14.082	26.192
150.	13.809	34.989	13.787	26.226	152.	12.853	34.931	12.832	26.374
200.	12.417	34.907	12.390	26.443	200.	12.200	34.887	12.173	26.469
401.	9.420	34.708	9.375	26.830	1000.	4.510	34.547	4.430	27.380
599.	7.084	34.589	7.027	27.091	2001.	2.280	34.643	2.140	27.673
800.	5.592	34.543	5.523	27.250	2999.	1.782	34.679	1.559	27.747
1001.	4.556	34.543	4.476	27.370	4065.	1.844	34.684	1.508	27.754

CAST GP8-99-RB-0251 LAT 6 59.9S LONG 94 59.9W CAST GP8-99-RB-0271 LAT 5 00.6S LONG 95 03.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	21.974	35.175	21.974	24.360	3.	22.186	35.058	22.186	24.212
10.	21.972	35.174	21.970	24.361	10.	22.069	35.055	22.068	24.243
24.	21.961	35.174	21.957	24.364	26.	21.846	35.059	21.841	24.309
40.	21.798	35.175	21.790	24.407	40.	21.804	35.113	21.796	24.348
61.	21.472	35.117	21.461	24.453	60.	21.438	35.111	21.427	24.468
100.	15.240	35.075	15.225	25.979	101.	14.398	35.036	14.383	26.137
151.	12.960	34.954	12.940	26.372	151.	12.791	34.930	12.770	26.386
199.	12.134	34.893	12.108	26.486	201.	12.067	34.879	12.041	26.488
401.	9.305	34.701	9.260	26.843	400.	9.336	34.703	9.291	26.840
600.	7.130	34.589	7.072	27.085	600.	6.865	34.590	6.808	27.120
799.	5.616	34.546	5.547	27.250	801.	5.605	34.556	5.536	27.260
998.	4.598	34.551	4.518	27.368	1001.	4.481	34.556	4.401	27.389

CAST GP8-99-RB-0261 LAT 6 00.0S LONG 95 00.0W CAST GP8-99-RB-0281 LAT 4 00.0S LONG 95 00.0W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	21.877	35.097	21.876	24.327	3.	21.940	35.167	21.940	24.364
10.	21.868	35.096	21.867	24.330	10.	21.944	35.168	21.941	24.364
24.	21.859	35.098	21.854	24.334	24.	21.853	35.170	21.848	24.389
41.	21.856	35.100	21.848	24.338	41.	21.262	35.122	21.255	24.522
60.	21.754	35.103	21.742	24.368	59.	17.211	35.069	17.201	25.514
100.	16.695	35.059	16.678	25.629	102.	13.948	34.994	13.933	26.199
150.	13.160	34.967	13.139	26.345	150.	13.211	34.942	13.190	26.312
200.	12.120	34.889	12.094	26.488	200.	12.649	34.905	12.622	26.397
400.	9.453	34.714	9.408	26.827	401.	9.414	34.706	9.368	26.830
601.	7.094	34.592	7.036	27.094	601.	7.168	34.594	7.109	27.083
800.	5.743	34.557	5.673	27.244	800.	5.448	34.547	5.379	27.271
1001.	4.663	34.547	4.583	27.362	1003.	4.477	34.560	4.398	27.392

CAST GP8-99-RB-0291							CAST GP8-99-RB-0311							
LAT 3 00.2S			LONG 95 00.2W				LAT 1 59.9S			LONG 95 05.8W				
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	20.816	34.472	20.816	24.142	2.	21.007	34.473	21.006	24.093					
10.	20.750	34.550	20.748	24.155	10.	20.712	34.510	20.711	24.174					
24.	15.207	34.926	15.203	25.861	25.	15.735	34.931	15.731	25.761					
41.	14.668	34.999	14.662	26.044	41.	15.099	34.995	15.093	25.942					
60.	13.839	34.960	13.830	26.194	60.	13.601	34.967	13.593	26.246					
100.	13.365	34.942	13.351	26.279	99.	13.296	34.943	13.282	26.290					
150.	13.196	34.937	13.175	26.311	150.	13.169	34.929	13.149	26.310					
200.	12.925	34.916	12.897	26.352	200.	13.062	34.928	13.034	26.331					
400.	9.515	34.710	9.470	26.816	401.	9.746	34.718	9.700	26.781					
600.	7.128	34.585	7.070	27.082	600.	7.191	34.586	7.133	27.074					
800.	5.550	34.560	5.481	27.269	801.	6.006	34.560	5.935	27.210					
999.	4.512	34.560	4.432	27.389	1000.	4.708	34.560	4.627	27.367					

CAST GP8-99-RB-0301							CAST GP8-99-RB-0321							
LAT 2 30.2S			LONG 95 01.2W				LAT 1 30.0S			LONG 95 01.0W				
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	20.503	34.510	20.502	24.253	1.	20.545	34.521	20.545	24.252					
9.	20.213	34.588	20.212	24.345	10.	20.126	34.593	20.125	24.393					
24.	14.523	34.959	14.520	26.037	25.	16.131	34.909	16.127	25.668					
40.	13.838	34.973	13.832	26.204	41.	14.840	34.998	14.834	26.007					
60.	13.473	34.943	13.464	26.256	61.	13.486	34.950	13.477	26.260					
100.	13.231	34.926	13.217	26.294	101.	13.251	34.935	13.237	26.296					
149.	13.183	34.932	13.163	26.309	150.	13.098	34.927	13.078	26.322					
200.	12.925	34.920	12.898	26.351	199.	12.711	34.903	12.684	26.384					
400.	9.847	34.729	9.800	26.771	399.	9.052	34.681	9.008	26.867					
599.	7.291	34.591	7.232	27.063	602.	6.981	34.579	6.924	27.097					
801.	5.720	34.556	5.650	27.243	799.	5.769	34.560	5.699	27.242					
1001.	4.629	34.556	4.548	27.373	1000.	4.630	34.561	4.550	27.376					

CAST GP8-99-RB-0331 LAT 1 00.0S LONG 95 00.0W										CAST GP8-99-RB-0351 LAT 0 06.9N LONG 94 58.3W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)				
2.	20.266	34.581	20.265	24.368		3.	19.528	34.761	19.528	24.701									
10.	18.770	34.914	18.768	24.787		10.	18.891	34.792	18.889	24.878									
25.	15.586	34.988	15.582	25.833		24.	17.200	34.810	17.196	25.319									
40.	14.423	34.999	14.417	26.098		40.	15.408	34.854	15.402	25.766									
61.	13.678	34.947	13.669	26.217		61.	13.858	34.919	13.849	26.157									
100.	13.275	34.933	13.261	26.290		100.	13.275	34.910	13.261	26.272									
150.	13.094	34.930	13.074	26.325		150.	13.077	34.915	13.056	26.318									
201.	12.686	34.903	12.659	26.386		199.	12.889	34.913	12.861	26.355									
400.	9.186	34.684	9.142	26.849		400.	8.785	34.663	8.742	26.896									
599.	7.274	34.590	7.215	27.066		601.	6.995	34.580	6.937	27.097									
800.	5.775	34.558	5.705	27.240		799.	5.616	34.553	5.546	27.254									
1001.	4.392	34.562	4.313	27.402		1001.	4.452	34.560	4.373	27.396									
CAST GP8-99-RB-0341 LAT 0 30.0S LONG 95 01.6W										CAST GP8-99-RB-0361 LAT 0 30.2N LONG 95 10.7W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)				
3.	20.017	34.679	20.016	24.511		2.	19.710	34.770	19.710	24.663									
9.	19.645	34.754	19.643	24.628		10.	19.635	34.770	19.633	24.681									
26.	16.651	34.925	16.646	25.551		24.	18.658	34.770	18.653	24.921									
40.	15.815	34.963	15.809	25.761		40.	14.821	34.942	14.815	25.930									
60.	13.978	34.918	13.969	26.132		60.	13.741	34.948	13.732	26.204									
101.	13.491	34.915	13.477	26.233		100.	13.207	34.914	13.193	26.289									
150.	13.089	34.911	13.068	26.313		151.	13.043	34.918	13.022	26.327									
200.	12.965	34.915	12.938	26.345		201.	12.420	34.874	12.393	26.417									
400.	9.283	34.689	9.238	26.838		400.	8.869	34.667	8.825	26.886									
600.	7.083	34.582	7.025	27.087		600.	6.998	34.579	6.940	27.096									
799.	5.986	34.556	5.915	27.212		800.	5.962	34.562	5.891	27.220									
999.	4.507	34.559	4.428	27.389		1000.	4.556	34.564	4.477	27.387									

CAST GP8-99-RB-0451		LAT 6 00.0N		LONG 95 00.0W		CAST GP8-99-RB-0471		LAT 8 04.3N		LONG 94 57.2W	
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRESS (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		
2.	26.215	33.230	26.215	21.633	2.	26.758	33.111	26.758	21.372		
9.	26.228	33.305	26.226	21.704	10.	26.772	33.110	26.770	21.367		
25.	26.179	33.429	26.174	21.794	25.	26.287	33.435	26.281	21.669		
39.	26.124	33.525	26.116	21.878	39.	18.580	34.662	18.573	24.853		
60.	21.167	34.480	21.156	24.111	60.	14.553	34.730	14.545	25.855		
100.	14.622	34.741	14.607	25.866	102.	12.841	34.785	12.828	26.259		
150.	12.359	34.749	12.340	26.331	149.	12.540	34.833	12.520	26.361		
200.	11.633	34.770	11.608	26.485	201.	11.679	34.783	11.653	26.487		
400.	9.343	34.669	9.298	26.811	399.	9.756	34.690	9.710	26.760		
600.	7.120	34.590	7.062	27.089	601.	7.085	34.589	7.028	27.093		
800.	5.680	34.567	5.610	27.259	799.	5.754	34.566	5.684	27.250		
1001.	4.661	34.565	4.580	27.378	1001.	4.716	34.569	4.635	27.373		

CAST GP8-99-RB-0461		LAT 7 00.0N		LONG 95 00.0W		CAST GP8-99-RB-0481		LAT 8 59.9N		LONG 95 00.0W	
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRESS (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)		
3.	26.719	33.047	26.718	21.338	4.	26.635	33.341	26.635	21.584		
9.	26.677	33.047	26.675	21.350	10.	26.625	33.350	26.623	21.581		
25.	26.658	33.089	26.652	21.379	24.	19.346	34.656	19.341	24.652		
40.	24.491	34.016	24.483	22.719	40.	14.639	34.817	14.633	25.901		
60.	17.034	34.723	17.024	25.294	60.	14.079	34.909	14.071	26.105		
99.	13.253	34.770	13.240	26.167	99.	13.378	34.872	13.365	26.225		
201.	11.646	34.781	11.620	26.493	150.	12.604	34.834	12.584	26.350		
401.	9.193	34.664	9.149	26.833	200.	12.094	34.804	12.068	26.426		
599.	7.111	34.586	7.053	27.086	401.	9.742	34.685	9.696	26.757		
801.	5.585	34.565	5.516	27.269	599.	7.205	34.594	7.147	27.079		
1000.	4.694	34.569	4.613	27.377	801.	5.581	34.563	5.512	27.270		
119.	12.637	34.731	12.621	26.297	1002.	4.680	34.569	4.598	27.379		

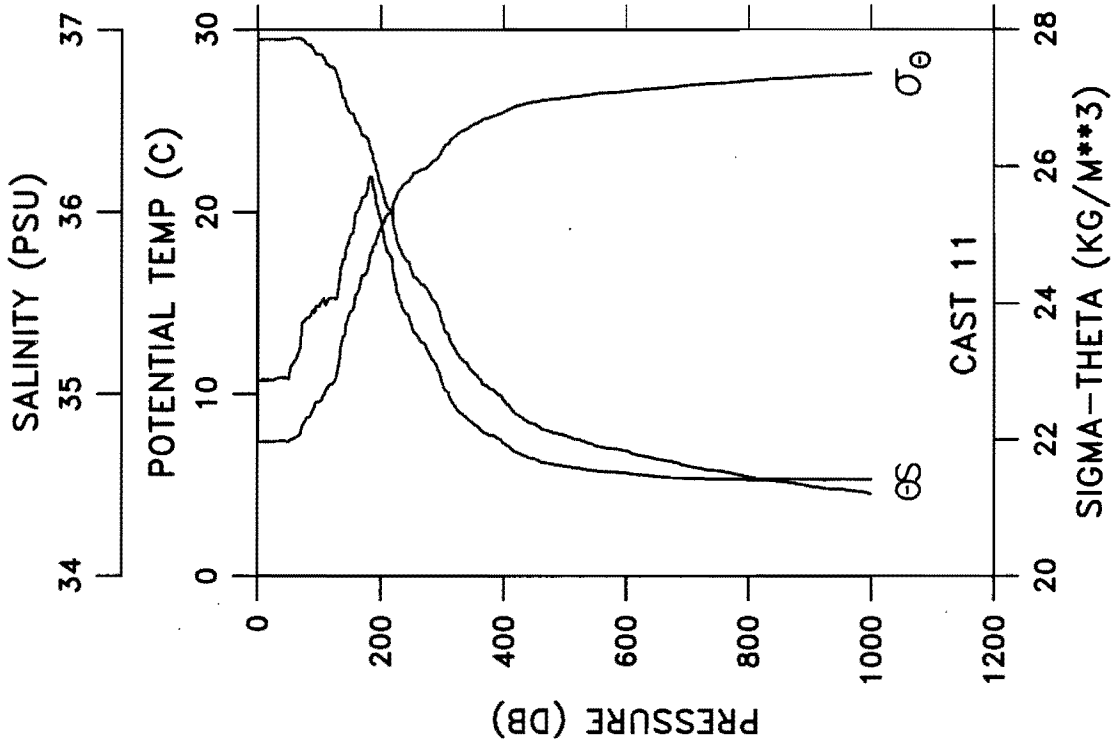
CAST GP8-99-RB-0491				LAT 9 56.8N LONG 94 59.9W				CAST GP8-99-RB-0511				LAT 12 00.0N LONG 95 00.0W			
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	23.708	34.422	23.708	23.291	2.	23.024	33.875	23.024	23.076						
9.	23.652	34.442	23.650	23.291	10.	23.029	33.876	23.027	23.070						
26.	15.506	34.783	15.502	25.691	25.	17.196	34.543	17.192	24.992						
40.	14.359	34.809	14.353	25.965	39.	14.036	34.821	14.031	26.043						
59.	13.799	34.820	13.791	26.094	59.	13.722	34.843	13.713	26.129						
100.	12.995	34.829	12.981	26.264	100.	13.135	34.846	13.121	26.253						
150.	12.240	34.792	12.220	26.387	150.	12.310	34.797	12.290	26.378						
199.	11.609	34.765	11.584	26.488	200.	11.651	34.767	11.626	26.483						
400.	8.903	34.636	8.859	26.857	399.	8.910	34.632	8.866	26.852						
602.	6.769	34.574	6.713	27.123	599.	6.696	34.569	6.640	27.130						
802.	5.547	34.562	5.478	27.273	800.	5.567	34.555	5.498	27.264						
1000.	4.692	34.565	4.611	27.375	1000.	4.604	34.561	4.524	27.381						

CAST GP8-99-RB-0501				LAT 11 00.1N LONG 95 00.0W					
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	21.843	34.602	21.843	23.963					
11.	15.527	34.783	15.525	25.706					
26.	14.055	34.823	14.051	26.042					
40.	13.633	34.808	13.627	26.120					
60.	13.332	34.833	13.324	26.199					
101.	12.554	34.806	12.540	26.334					
149.	12.068	34.793	12.048	26.422					
201.	11.306	34.757	11.281	26.533					
400.	8.473	34.617	8.431	26.909					
600.	6.557	34.567	6.501	27.146					
799.	5.347	34.558	5.280	27.291					
1000.	4.463	34.567	4.384	27.397					

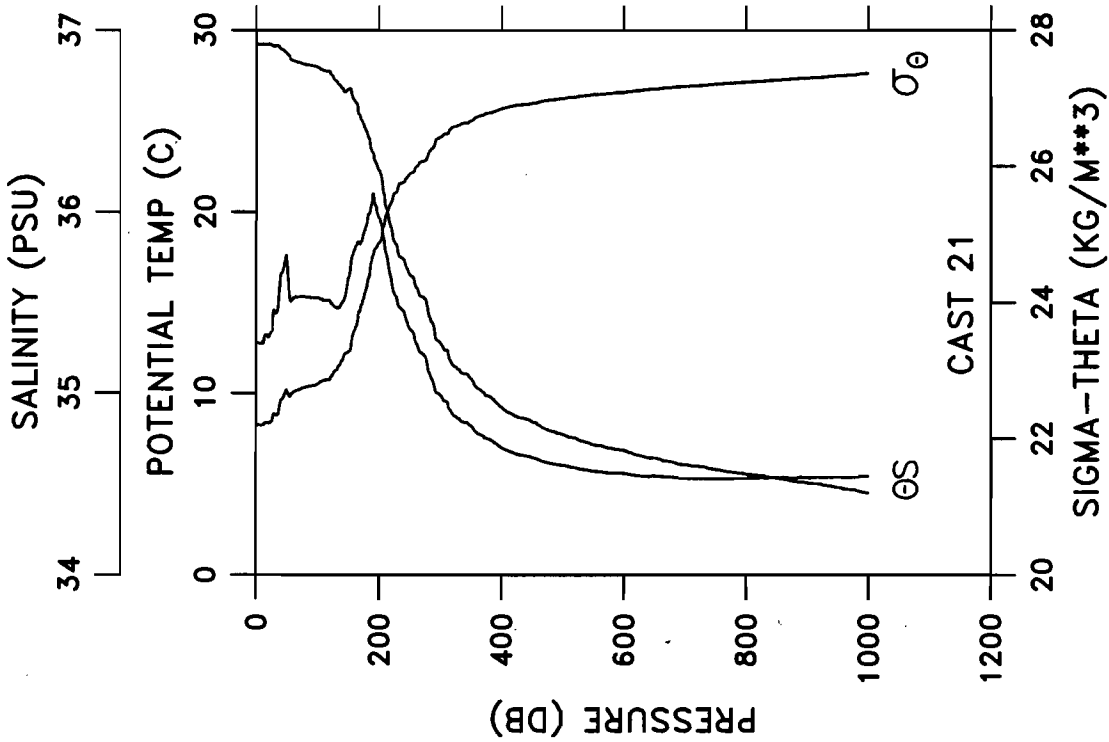
GP9-99-KA
November 24–December 8, 1999
CTD and Hydrographic Data Summary

CAST GP9-99-KA-0011 DATE 24 NOV 99 TIME 0921 GMT
 LAT 07 58.6S LONG 179 48.2W WEATHER 1 SEA STATE 3
 BAROMETER 08 WIND DIR 027 T SPD 04 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 28.0 WET 24.5 DEPTH 5546 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.463	35.073	21.966	0.000
10	29.460	35.078	21.971	0.058
20	29.462	35.079	21.971	0.117
30	29.457	35.086	21.978	0.175
40	29.457	35.090	21.981	0.234
50	29.482	35.084	21.967	0.292
60	29.530	35.184	22.027	0.351
70	29.499	35.306	22.128	0.409
80	29.178	35.421	22.323	0.465
90	28.916	35.465	22.443	0.520
100	28.627	35.483	22.553	0.574
110	28.189	35.490	22.703	0.626
120	27.947	35.531	22.814	0.678
130	27.304	35.568	23.051	0.728
140	26.233	35.744	23.523	0.774
150	25.415	35.868	23.872	0.816
160	24.878	35.999	24.136	0.856
170	24.192	36.079	24.403	0.894
180	23.848	36.177	24.579	0.929
190	22.701	36.110	24.864	0.962
200	21.450	35.955	25.098	0.992
250	16.806	35.378	25.851	1.119
300	13.933	35.063	26.251	1.223
350	11.243	34.841	26.608	1.305
400	9.661	34.730	26.799	1.376
450	8.360	34.645	26.940	1.438
500	7.736	34.604	27.002	1.496
550	7.160	34.577	27.064	1.552
600	6.881	34.567	27.094	1.605
650	6.429	34.548	27.140	1.657
700	6.038	34.538	27.183	1.707
750	5.788	34.534	27.212	1.755
800	5.458	34.531	27.250	1.802
900	4.946	34.533	27.312	1.890
1000	4.530	34.533	27.358	1.975
1003	4.507	34.533	27.360	1.977

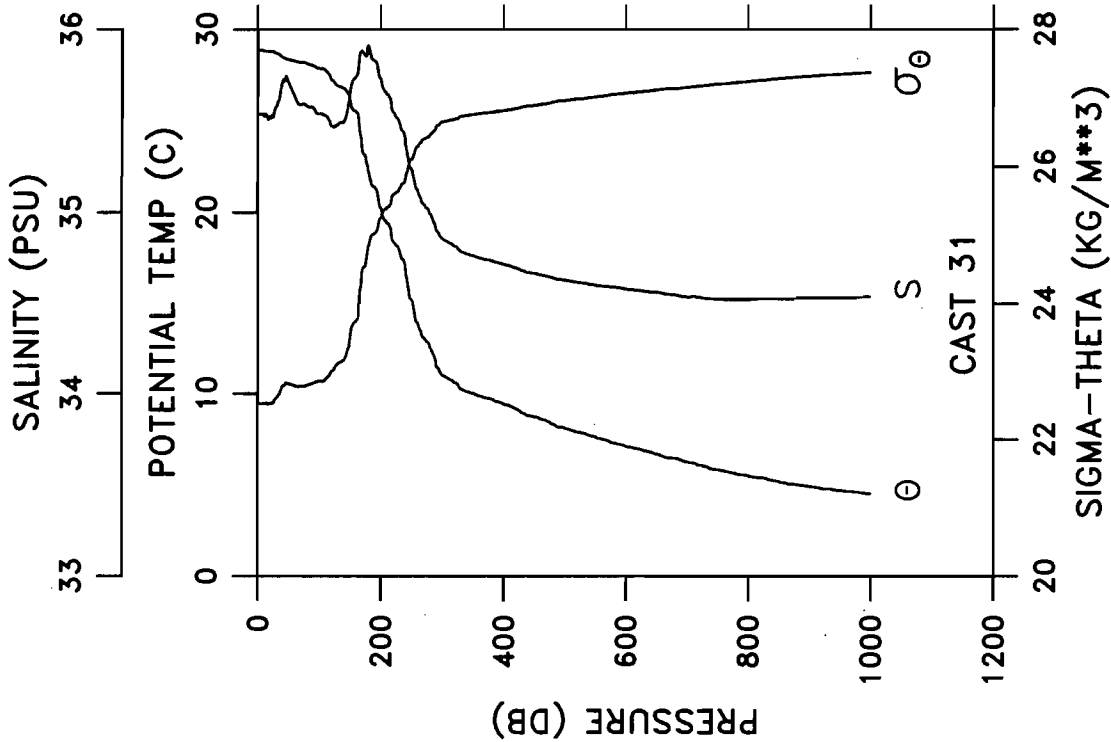


CAST GP9-99-KA-0021 DATE 24 NOV 99 TIME 1639 GMT
 LAT 06 59.6S LONG 179 51.0W WEATHER 1 SEA STATE 3
 BAROMETER 06 WIND DIR 048 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.5 WET 25.0 DEPTH 5407 M



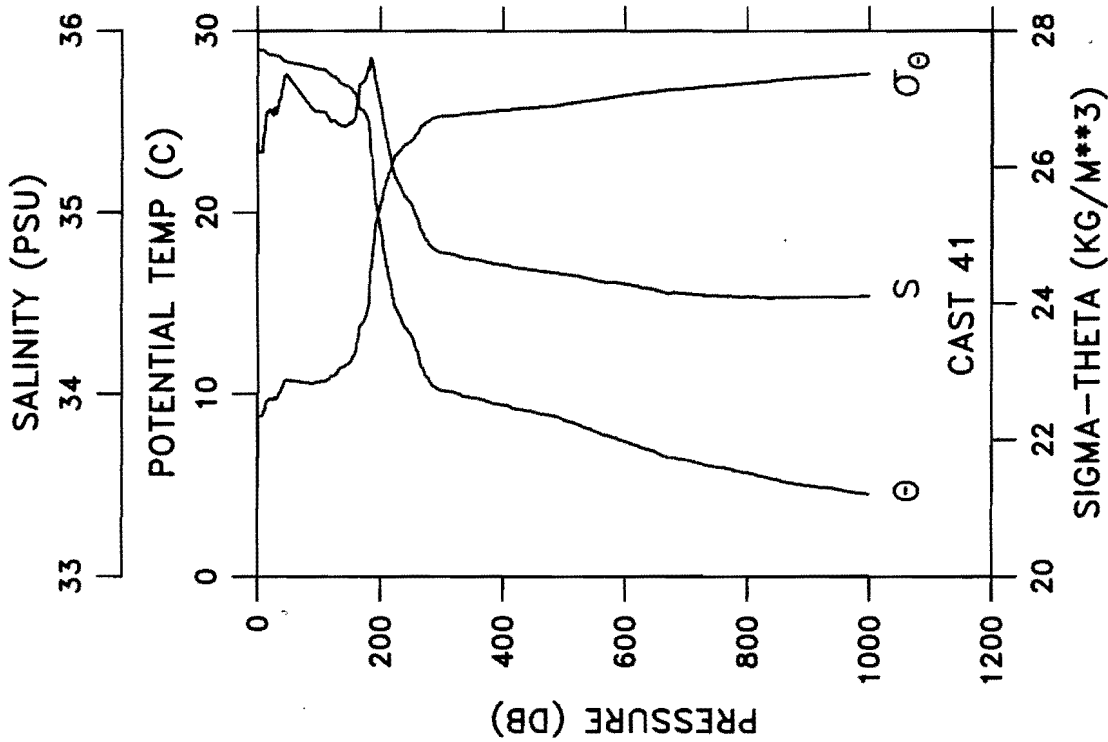
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	29.228	35.278	22.199	0.000
10	29.230	35.277	22.197	0.056
20	29.224	35.310	22.224	0.112
30	29.135	35.450	22.359	0.168
40	28.971	35.650	22.565	0.222
50	28.725	35.719	22.698	0.275
60	28.343	35.525	22.679	0.327
70	28.233	35.532	22.720	0.378
80	28.118	35.531	22.758	0.430
90	28.049	35.527	22.777	0.481
100	27.948	35.526	22.810	0.532
110	27.758	35.510	22.860	0.583
120	27.713	35.508	22.873	0.633
130	27.212	35.471	23.007	0.683
140	26.815	35.498	23.154	0.731
150	26.755	35.633	23.275	0.778
160	26.145	35.790	23.586	0.823
170	25.117	35.831	23.936	0.865
180	24.408	35.936	24.230	0.904
190	23.259	36.103	24.696	0.940
200	22.275	35.967	24.876	0.972
250	16.521	35.352	25.899	1.099
300	12.754	34.989	26.434	1.196
350	10.806	34.819	26.670	1.273
400	9.240	34.700	26.845	1.341
450	8.437	34.645	26.929	1.402
500	7.743	34.601	26.999	1.461
550	7.170	34.570	27.057	1.516
600	6.864	34.558	27.090	1.570
650	6.433	34.545	27.137	1.622
700	6.053	34.532	27.176	1.672
750	5.789	34.530	27.208	1.720
800	5.535	34.533	27.241	1.767
900	5.052	34.534	27.300	1.858
1000	4.516	34.543	27.367	1.942
1001	4.513	34.542	27.367	1.943

CAST GP9-99-KA-0031 DATE 24 NOV 99 TIME 2333 GMT
 LAT 06 00.1S LONG 179 53.9W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 062 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 28.8 WET 25.4 DEPTH 4823 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.839	35.538	22.525	0.000
10	28.815	35.530	22.526	0.053
20	28.792	35.515	22.523	0.106
30	28.696	35.579	22.603	0.159
40	28.468	35.718	22.783	0.211
50	28.347	35.708	22.815	0.262
60	28.258	35.631	22.787	0.312
70	28.188	35.590	22.779	0.363
80	28.113	35.580	22.796	0.414
90	28.005	35.572	22.826	0.465
100	27.852	35.540	22.851	0.516
110	27.743	35.529	22.879	0.566
120	27.240	35.473	22.999	0.616
130	26.909	35.482	23.112	0.664
140	26.760	35.502	23.174	0.712
150	26.077	35.659	23.508	0.759
160	25.498	35.743	23.752	0.801
170	23.334	35.880	24.505	0.840
180	22.204	35.906	24.850	0.874
190	21.362	35.826	25.025	0.905
200	20.243	35.726	25.252	0.934
250	15.202	35.237	26.110	1.055
300	11.024	34.855	26.659	1.138
350	10.044	34.763	26.760	1.208
400	9.445	34.715	26.823	1.274
450	8.762	34.667	26.896	1.338
500	8.126	34.629	26.964	1.398
550	7.653	34.604	27.014	1.456
600	7.099	34.581	27.075	1.511
650	6.691	34.563	27.117	1.564
700	6.274	34.538	27.153	1.616
750	5.828	34.525	27.200	1.665
800	5.493	34.523	27.239	1.712
900	4.918	34.531	27.313	1.801
1000	4.501	34.540	27.367	1.885
1001	4.500	34.539	27.367	1.885

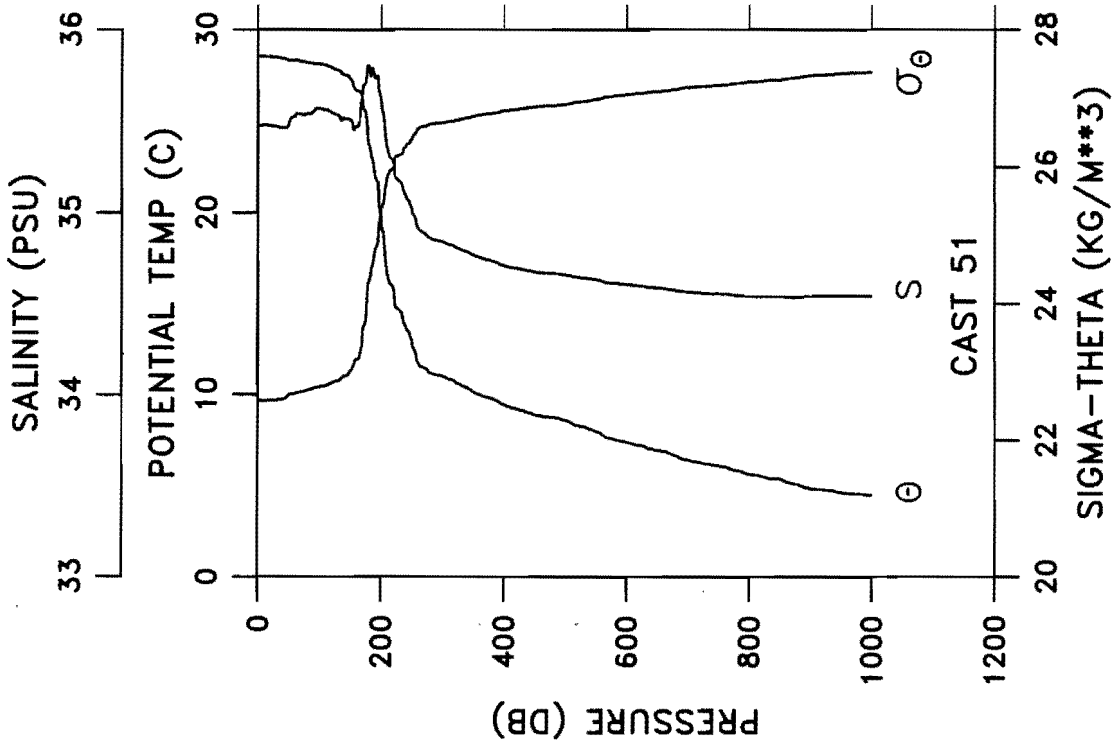
CAST GP9-99-KA-0041 DATE 25 NOV 99 TIME 0702 GMT
 LAT 04 56.2S LONG 179 57.2W WEATHER 1 SEA STATE 4
 BAROMETER 06 WIND DIR 071 T SPD 11 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.5 WET 25.1 DEPTH 5620 M



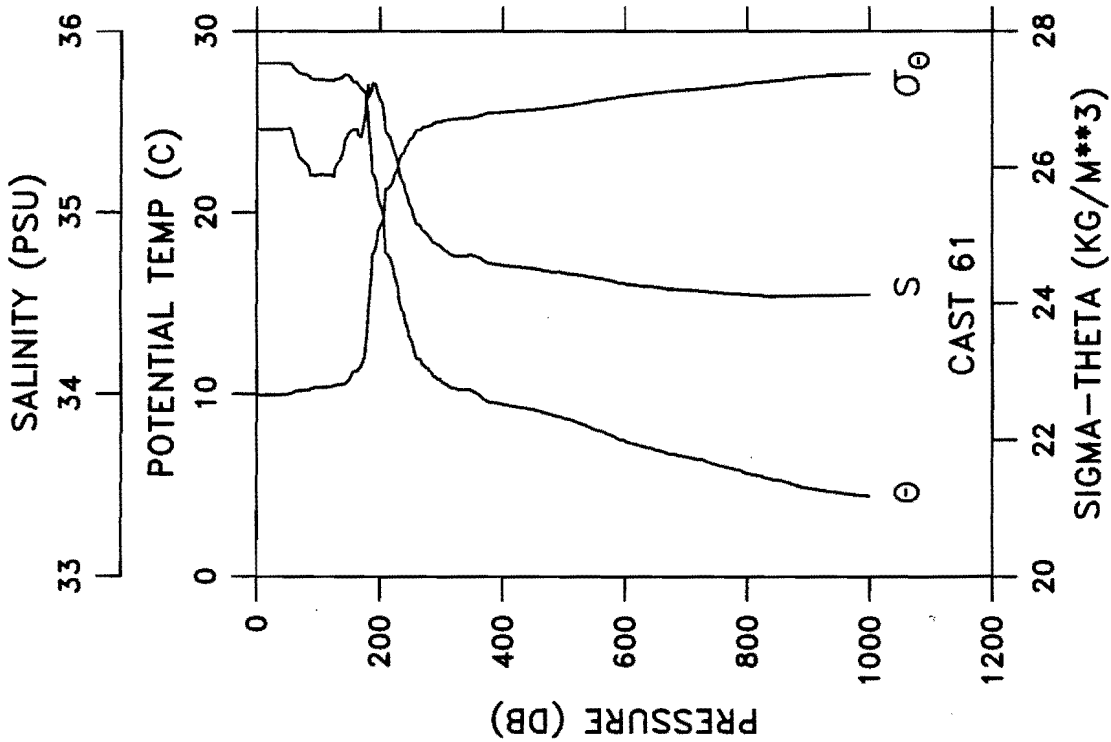
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.922	35.333	22.343	0.000
10	28.917	35.429	22.417	0.055
20	28.685	35.564	22.595	0.108
30	28.640	35.539	22.591	0.160
40	28.460	35.679	22.756	0.212
50	28.259	35.746	22.873	0.263
60	28.194	35.698	22.858	0.313
70	28.128	35.652	22.846	0.363
80	28.062	35.607	22.833	0.413
90	27.981	35.562	22.826	0.464
100	27.894	35.553	22.848	0.515
110	27.836	35.547	22.862	0.565
120	27.508	35.500	22.933	0.615
130	27.313	35.484	22.984	0.665
140	27.023	35.474	23.069	0.714
150	26.860	35.496	23.138	0.762
160	26.412	35.552	23.323	0.809
170	25.617	35.715	23.694	0.853
180	24.989	35.799	23.951	0.895
190	21.344	35.750	24.972	0.930
200	19.041	35.585	25.459	0.958
250	13.223	35.045	26.383	1.057
300	10.211	34.778	26.742	1.131
350	9.807	34.742	26.784	1.199
400	9.406	34.711	26.826	1.264
450	9.020	34.683	26.867	1.328
500	8.564	34.659	26.921	1.391
550	7.976	34.626	26.984	1.451
600	7.395	34.606	27.053	1.507
650	6.845	34.574	27.105	1.561
700	6.391	34.553	27.149	1.613
750	5.979	34.541	27.193	1.662
800	5.689	34.539	27.227	1.710
900	4.953	34.536	27.313	1.800
1000	4.474	34.541	27.371	1.884
1002	4.465	34.541	27.372	1.885

CAST GP9-99-KA-0051 DATE 25 NOV 99 TIME 1336 GMT
 LAT 03 59.6S LONG 179 56.2W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 069 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 24.8 WET 24.6 DEPTH 6090 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.533	35.479	22.581	0.000
10	28.536	35.481	22.583	0.053
20	28.527	35.478	22.583	0.105
30	28.504	35.474	22.588	0.158
40	28.442	35.467	22.603	0.210
50	28.328	35.480	22.651	0.263
60	28.330	35.526	22.684	0.315
70	28.275	35.539	22.712	0.366
80	28.206	35.544	22.738	0.418
90	28.158	35.550	22.759	0.469
100	28.136	35.571	22.782	0.521
110	28.069	35.564	22.798	0.572
120	27.921	35.549	22.835	0.622
130	27.783	35.533	22.868	0.673
140	27.529	35.514	22.937	0.723
150	27.294	35.505	23.006	0.773
160	26.660	35.471	23.183	0.821
170	25.991	35.666	23.541	0.868
180	23.778	35.800	24.314	0.909
190	22.065	35.737	24.761	0.944
200	19.679	35.608	25.312	0.974
250	13.014	35.023	26.408	1.076
300	11.023	34.841	26.648	1.151
350	10.176	34.769	26.742	1.222
400	9.446	34.712	26.820	1.289
450	8.903	34.676	26.880	1.353
500	8.600	34.659	26.915	1.415
550	7.994	34.633	26.987	1.475
600	7.396	34.606	27.053	1.531
650	6.936	34.587	27.103	1.585
700	6.429	34.567	27.155	1.637
750	6.103	34.558	27.190	1.687
800	5.620	34.544	27.240	1.735
900	4.830	34.542	27.332	1.824
1000	4.445	34.545	27.377	1.906
1003	4.419	34.544	27.379	1.908

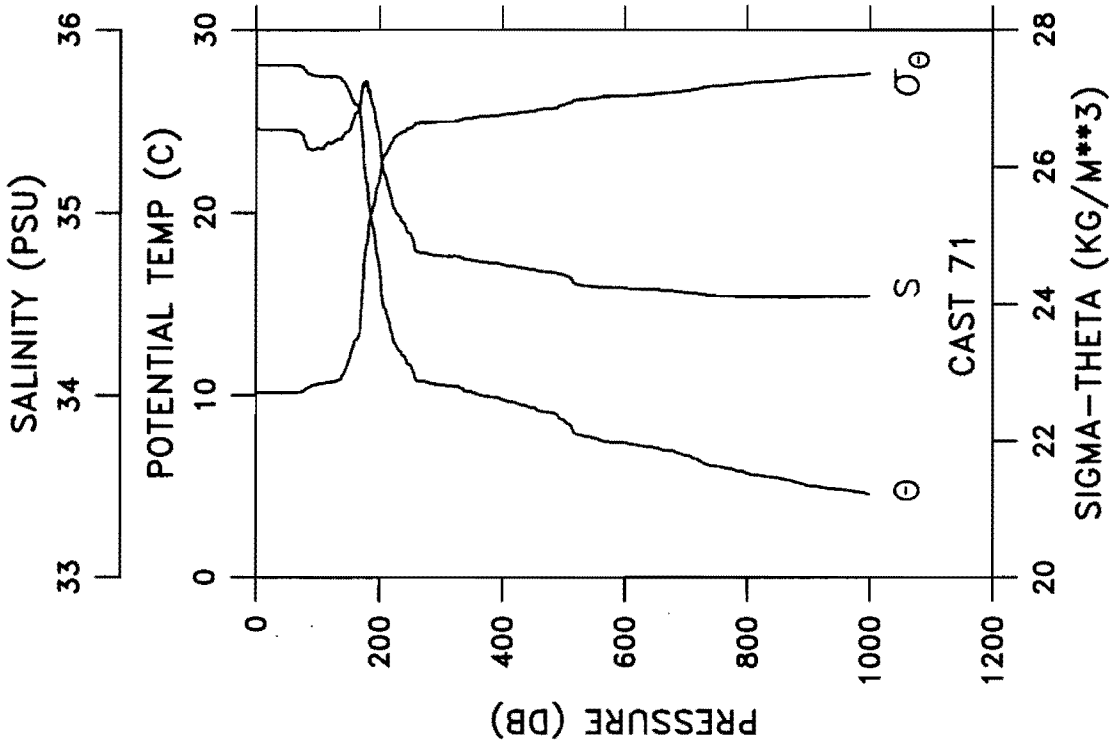


CAST GP9-99-KA-0061 DATE 25 NOV 99 TIME 2050 GMT
 LAT 03 00.2S LONG 179 55.4W WEATHER 1 SEA STATE 4
 BAROMETER 08 WIND DIR 068 T SPD 20 KT VISIBILITY 7
 CLOUD 3 AMOUNT 6 DRY 27.8 WET 25.1 DEPTH 5402 M



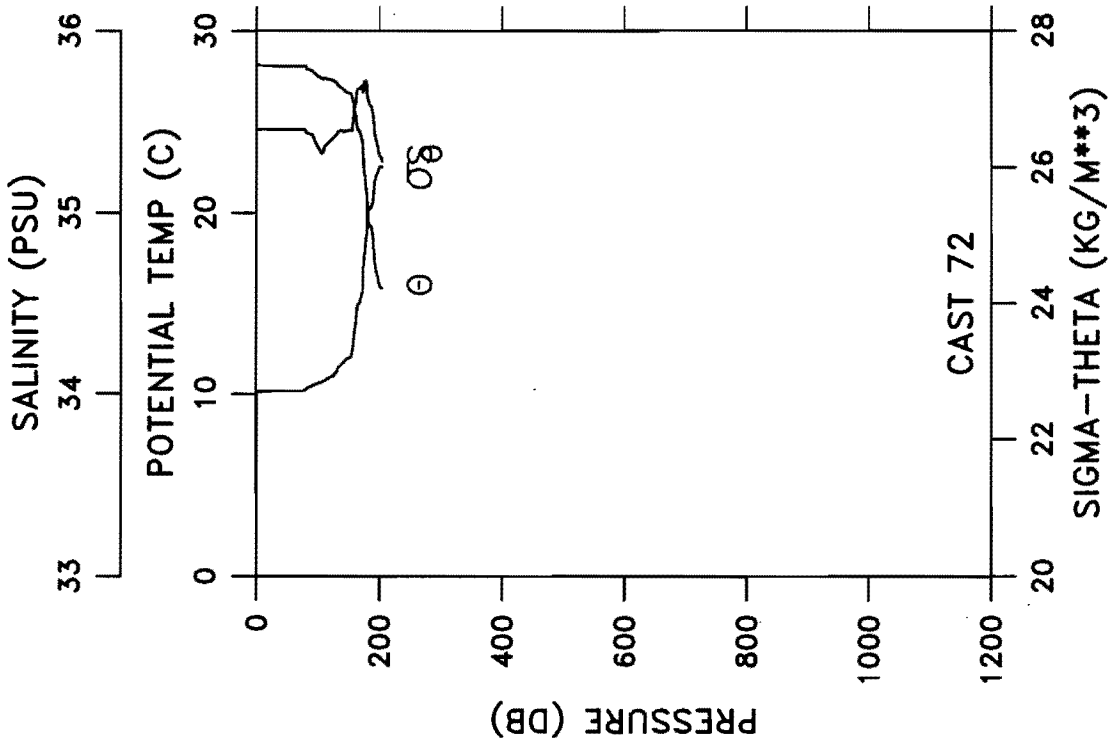
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.276	35.461	22.653	0.000
10	28.274	35.459	22.652	0.052
20	28.265	35.459	22.655	0.104
30	28.264	35.459	22.656	0.156
40	28.259	35.461	22.659	0.208
50	28.245	35.465	22.666	0.260
60	28.012	35.404	22.697	0.312
70	27.697	35.301	22.722	0.363
80	27.616	35.268	22.724	0.415
90	27.383	35.207	22.753	0.466
100	27.362	35.211	22.763	0.518
110	27.339	35.208	22.768	0.569
120	27.323	35.212	22.776	0.620
130	27.381	35.270	22.800	0.671
140	27.523	35.343	22.810	0.722
150	27.550	35.443	22.877	0.773
160	27.201	35.459	23.001	0.823
170	26.840	35.431	23.096	0.872
180	25.328	35.706	23.776	0.918
190	22.071	35.712	24.740	0.955
200	20.397	35.620	25.130	0.986
250	12.998	35.030	26.417	1.095
300	10.715	34.801	26.672	1.170
350	10.191	34.762	26.734	1.240
400	9.450	34.707	26.816	1.307
450	9.164	34.691	26.850	1.372
500	8.695	34.665	26.904	1.435
550	8.081	34.640	26.979	1.496
600	7.451	34.604	27.043	1.553
650	6.941	34.587	27.102	1.607
700	6.560	34.571	27.141	1.659
750	6.134	34.559	27.187	1.709
800	5.631	34.547	27.241	1.757
900	4.837	34.542	27.331	1.846
1000	4.409	34.548	27.383	1.928
1002	4.402	34.548	27.384	1.929

CAST GP9-99-KA-0071 DATE 26 NOV 99 TIME 1108 GMT
 LAT 02 03.5S LONG 179 59.1W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 048 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.8 WET 23.8 DEPTH 5348 M



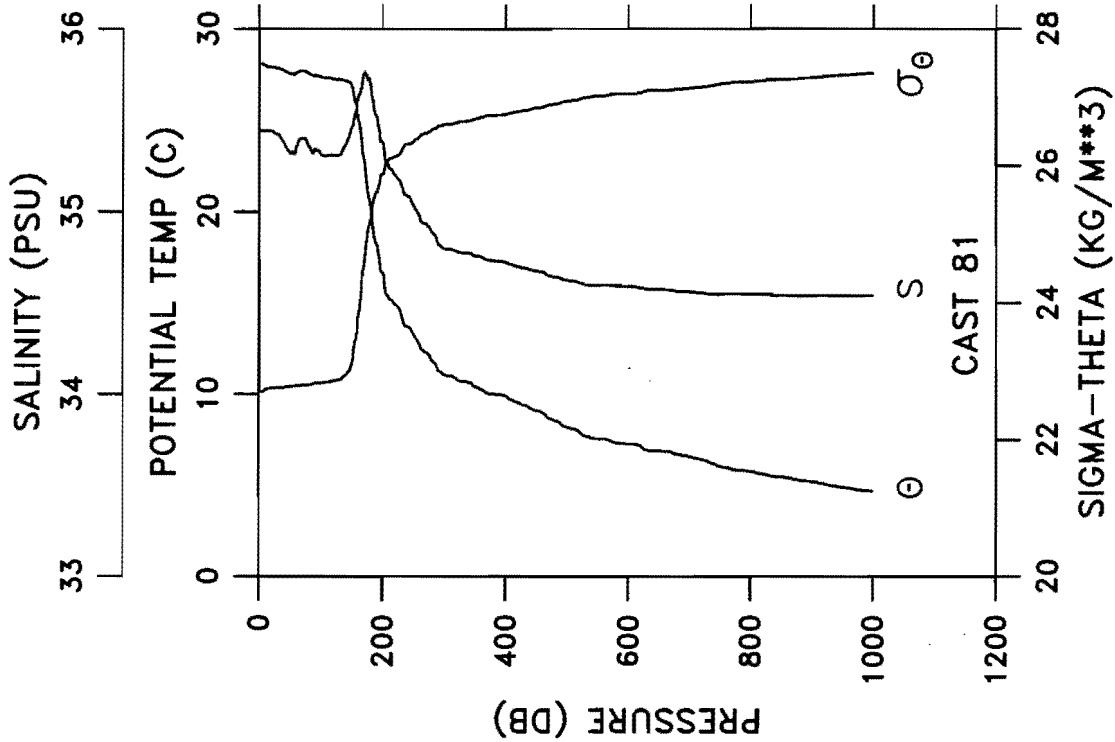
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.095	35.459	22.711	0.000
10	28.094	35.456	22.709	0.051
20	28.095	35.457	22.709	0.103
30	28.098	35.455	22.707	0.154
40	28.097	35.455	22.707	0.206
50	28.090	35.453	22.708	0.257
60	28.091	35.454	22.709	0.309
70	28.044	35.441	22.714	0.361
80	27.801	35.383	22.750	0.412
90	27.550	35.344	22.802	0.463
100	27.487	35.354	22.830	0.514
110	27.452	35.360	22.846	0.564
120	27.450	35.380	22.861	0.615
130	27.443	35.402	22.880	0.665
140	27.218	35.421	22.967	0.715
150	26.843	35.450	23.173	0.764
160	25.926	35.544	23.469	0.810
170	24.996	35.637	23.825	0.855
180	21.624	35.714	24.867	0.890
190	19.124	35.578	25.432	0.918
200	16.957	35.401	25.833	0.942
250	11.654	34.890	26.570	1.028
300	10.584	34.766	26.668	1.100
350	10.198	34.743	26.718	1.171
400	9.797	34.718	26.766	1.240
450	9.366	34.691	26.817	1.307
500	8.864	34.661	26.907	1.371
550	7.670	34.597	27.006	1.430
600	7.417	34.590	27.037	1.486
650	7.128	34.580	27.071	1.541
700	6.714	34.564	27.115	1.595
750	6.113	34.548	27.181	1.645
800	5.715	34.542	27.227	1.694
900	5.014	34.542	27.311	1.785
1000	4.562	34.547	27.365	1.869
1500	2.822	34.605	27.586	2.218
2000	2.102	34.640	27.675	2.496
2500	1.707	34.660	27.722	2.743
3000	1.398	34.675	27.757	2.976
3500	1.234	34.684	27.776	3.197
4000	1.101	34.692	27.791	3.416
4006	1.099	34.692	27.791	3.418

CAST GP9-99-KA-0072 DATE 26 NOV 99 TIME 2257 GMT
 LAT 02 03.4S LONG 179 59.1W WEATHER 1 SEA STATE 5
 BAROMETER 06 WIND DIR 060 T SPD 17 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.4 WET 23.8 DEPTH 5338 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.127	35.463	22.703	0.000
10	28.115	35.462	22.707	0.051
20	28.095	35.461	22.713	0.103
30	28.080	35.461	22.717	0.154
40	28.076	35.461	22.719	0.206
50	28.074	35.461	22.719	0.257
60	28.072	35.461	22.720	0.309
70	28.066	35.460	22.722	0.360
80	28.020	35.452	22.730	0.412
90	27.811	35.432	22.783	0.463
100	27.516	35.362	22.827	0.514
110	27.399	35.361	22.864	0.564
120	27.337	35.397	22.911	0.614
130	27.166	35.433	22.993	0.664
140	26.799	35.452	23.124	0.713
150	26.580	35.454	23.196	0.760
160	25.519	35.596	23.635	0.806
170	24.214	35.695	24.105	0.847
180	20.603	35.652	25.099	0.881
190	18.356	35.519	25.582	0.907
200	15.969	35.318	26.000	0.929
204	15.828	35.283	26.006	0.938

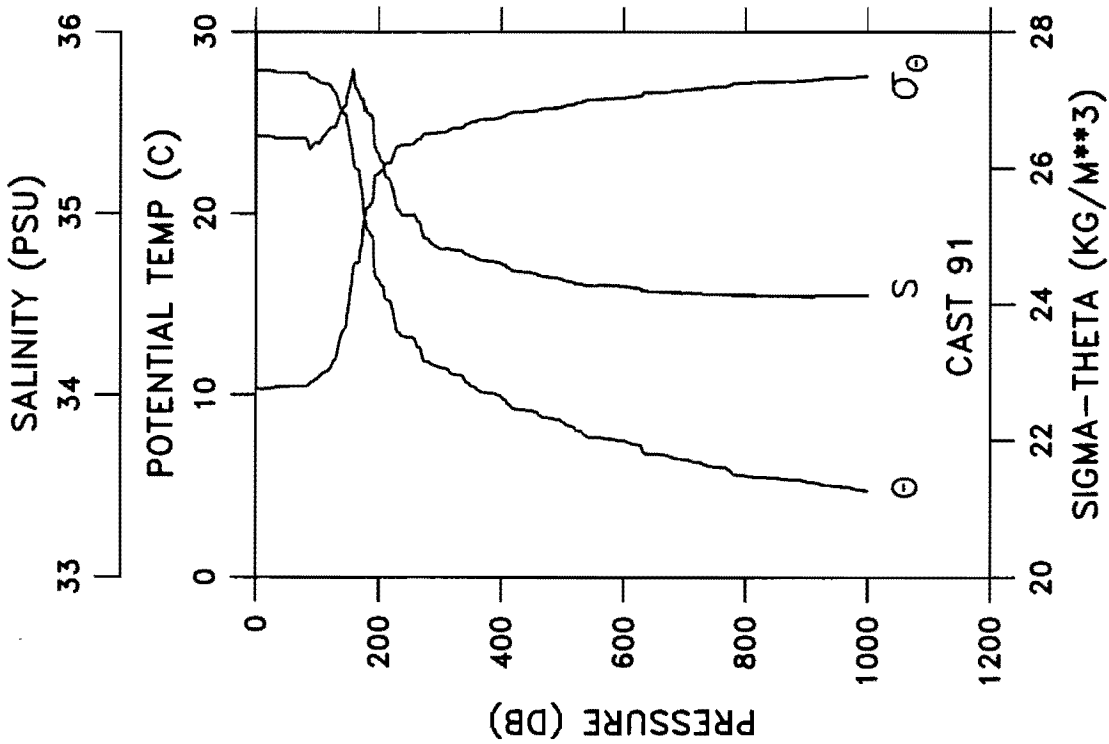
CAST GP9-99-KA-0081 DATE 27 NOV 99 TIME 0325 GMT
 LAT 01 30.2S LONG 179 52.9W WEATHER 1 SEA STATE 4
 BAROMETER 04 WIND DIR 060 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 27.0 WET 24.0 DEPTH 5208 M



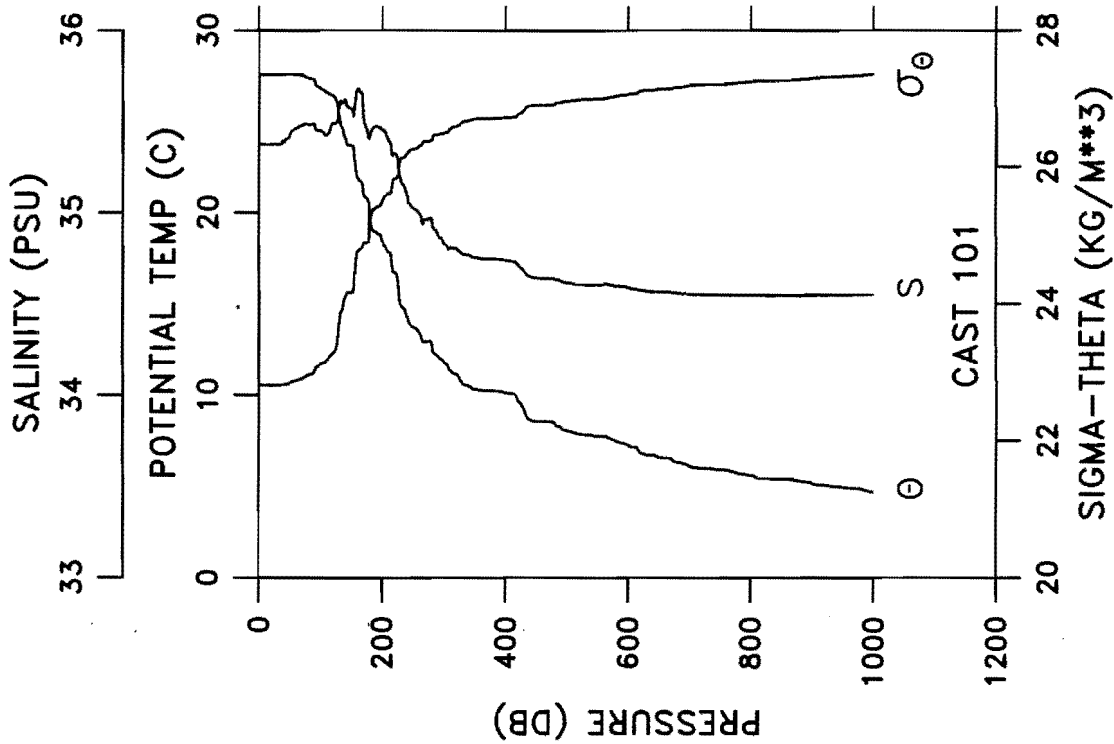
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.088	35.446	22.703	0.000
10	27.994	35.444	22.733	0.051
20	27.914	35.442	22.758	0.102
30	27.850	35.423	22.764	0.153
40	27.734	35.381	22.770	0.204
50	27.558	35.319	22.781	0.255
60	27.607	35.358	22.794	0.306
70	27.700	35.403	22.797	0.357
80	27.576	35.361	22.806	0.408
90	27.467	35.344	22.829	0.458
100	27.375	35.313	22.835	0.509
110	27.332	35.307	22.845	0.560
120	27.267	35.310	22.867	0.610
130	27.246	35.313	22.877	0.660
140	27.171	35.370	22.944	0.711
150	26.877	35.464	23.109	0.760
160	25.130	35.626	23.777	0.805
170	22.853	35.756	24.551	0.844
180	20.381	35.709	25.202	0.875
190	18.227	35.525	25.619	0.900
200	16.667	35.379	25.885	0.923
250	13.301	35.037	26.361	1.018
300	11.052	34.799	26.610	1.098
350	10.426	34.760	26.691	1.171
400	9.897	34.724	26.755	1.241
450	9.102	34.677	26.849	1.307
500	8.192	34.624	26.950	1.369
550	7.544	34.596	27.024	1.427
600	7.263	34.591	27.060	1.482
650	6.873	34.575	27.101	1.536
700	6.548	34.563	27.136	1.588
750	5.998	34.550	27.198	1.639
800	5.724	34.550	27.232	1.686
900	5.145	34.541	27.294	1.777
1000	4.638	34.542	27.353	1.862
1002	4.626	34.542	27.355	1.864

CAST 91-99-KA-0091 DATE 27 NOV 99 TIME 0748 GMT
 LAT 01 00.1S LONG 179 52.9W WEATHER 1 SEA STATE 4
 BAROMETER 06 WIND DIR 073 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.7 WET 23.5 DEPTH 5354 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.896	35.432	22.756	0.000
10	27.895	35.430	22.755	0.051
20	27.889	35.429	22.756	0.102
30	27.837	35.423	22.769	0.153
40	27.779	35.418	22.783	0.204
50	27.765	35.418	22.788	0.254
60	27.757	35.418	22.790	0.305
70	27.748	35.417	22.793	0.356
80	27.735	35.415	22.795	0.407
90	27.464	35.367	22.847	0.458
100	27.306	35.391	22.916	0.508
110	27.175	35.431	22.988	0.557
120	27.096	35.472	23.045	0.606
130	26.594	35.485	23.215	0.654
140	26.649	35.576	23.579	0.700
150	24.796	35.664	23.907	0.742
160	22.622	35.723	24.592	0.779
170	21.598	35.642	24.819	0.813
180	19.159	35.563	25.412	0.842
190	18.507	35.523	25.547	0.867
200	16.323	35.329	25.927	0.890
250	13.158	34.990	26.354	0.984
300	11.519	34.806	26.530	1.065
350	10.482	34.765	26.686	1.141
400	9.895	34.724	26.755	1.211
450	9.125	34.675	26.843	1.276
500	8.513	34.637	26.911	1.339
550	7.668	34.602	27.011	1.398
600	7.482	34.600	27.036	1.454
650	6.741	34.570	27.116	1.508
700	6.427	34.564	27.153	1.560
750	6.024	34.555	27.198	1.609
800	5.537	34.549	27.254	1.656
900	5.205	34.541	27.287	1.747
1000	4.711	34.549	27.350	1.833
1002	4.704	34.548	27.351	1.834

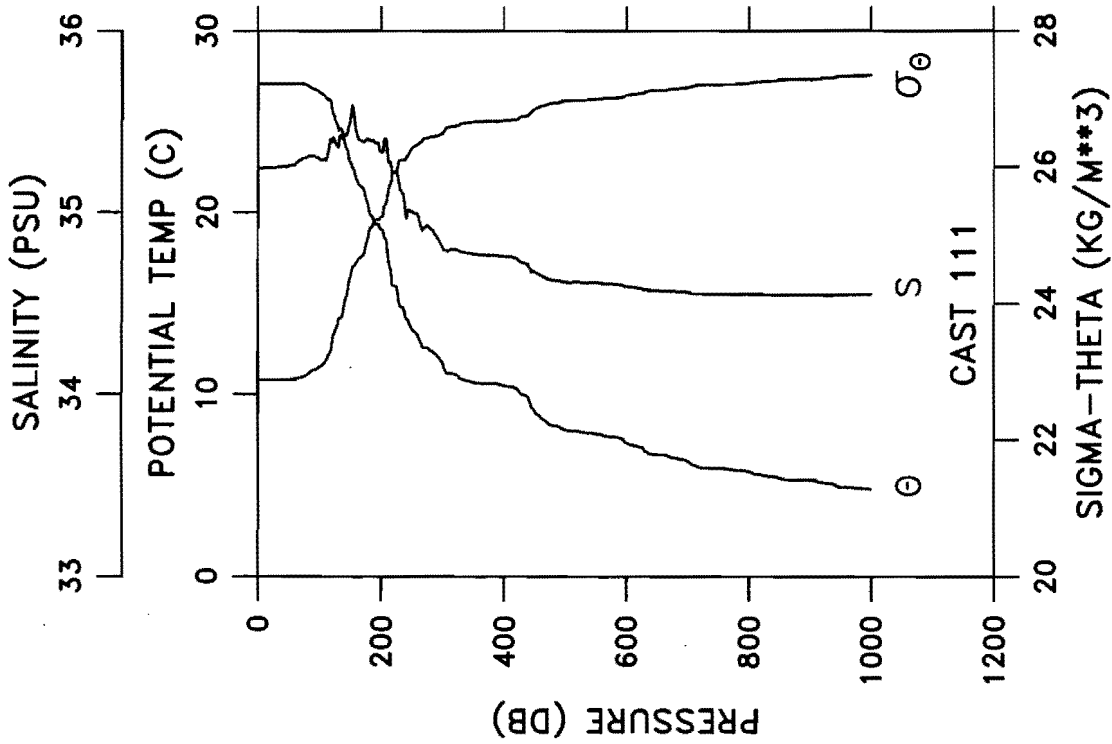


CAST GP9-99-KA-0101 DATE 27 NOV 99 TIME 1211 GMT
 LAT 00 29.9S LONG 179 53.0W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 086 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.5 WET 23.2 DEPTH 4513 M



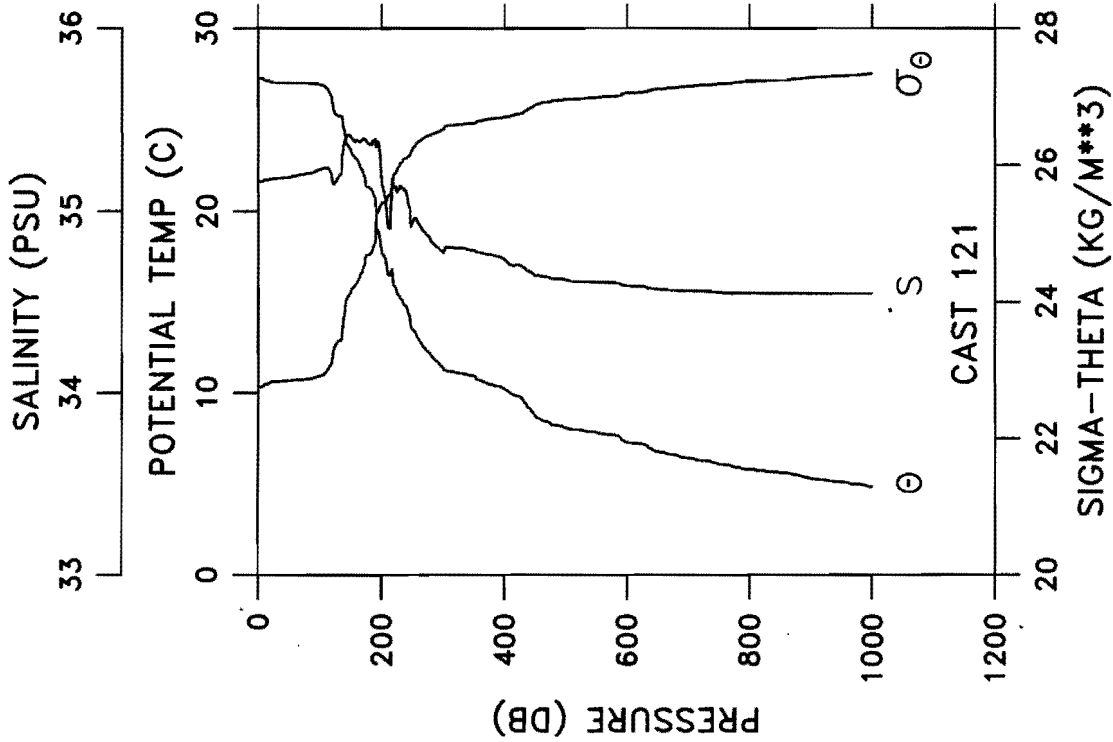
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.575	35.375	22.817	0.000
10	27.576	35.373	22.816	0.050
20	27.584	35.373	22.813	0.101
30	27.575	35.373	22.816	0.151
40	27.594	35.385	22.818	0.202
50	27.614	35.426	22.843	0.252
60	27.580	35.463	22.882	0.302
70	27.531	35.480	22.910	0.352
80	27.375	35.484	22.964	0.402
90	27.236	35.481	23.007	0.451
100	26.784	35.449	23.127	0.499
110	26.584	35.428	23.174	0.547
120	26.409	35.489	23.276	0.594
130	25.260	35.584	23.705	0.639
140	24.051	35.618	24.096	0.679
150	23.673	35.570	24.171	0.717
160	21.864	35.681	24.775	0.753
170	20.933	35.503	24.896	0.785
180	19.546	35.429	25.209	0.815
190	18.906	35.474	25.409	0.842
200	18.415	35.452	25.516	0.868
250	13.726	35.024	26.264	0.975
300	11.817	34.832	26.494	1.061
350	10.332	34.754	26.703	1.135
400	10.149	34.740	26.724	1.206
450	8.574	34.643	26.906	1.272
500	8.072	34.617	26.963	1.333
550	7.756	34.604	27.000	1.391
600	7.233	34.589	27.063	1.447
650	6.553	34.568	27.140	1.499
700	6.076	34.554	27.190	1.550
750	5.889	34.551	27.212	1.598
800	5.581	34.550	27.249	1.644
900	5.137	34.548	27.301	1.734
1000	4.654	34.553	27.361	1.819
1002	4.651	34.553	27.361	1.821

CAST GP9-99-KA-0111 DATE 27 NOV 99 TIME 1853 GMT
 LAT 00 01.4N LONG 179 53.7W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 111 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 26.6 WET 23.5 DEPTH 5375 M



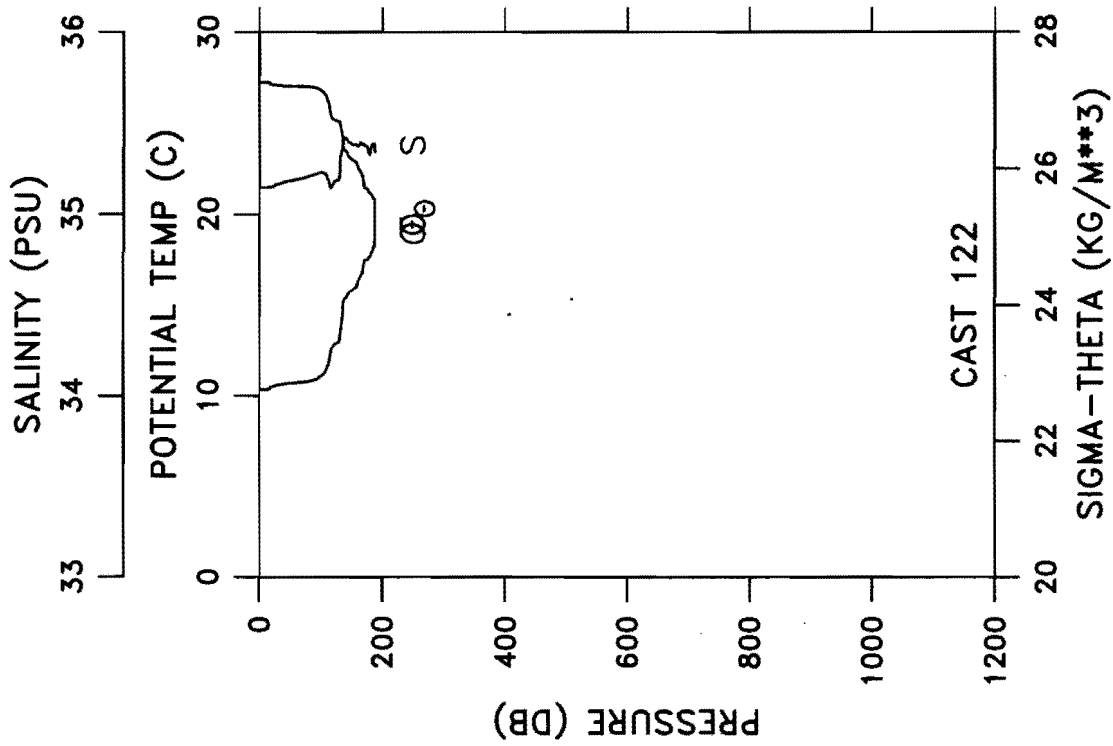
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.083	35.245	22.878	0.000
10	27.086	35.245	22.877	0.050
20	27.086	35.246	22.878	0.100
30	27.086	35.249	22.880	0.149
40	27.089	35.256	22.884	0.199
50	27.089	35.256	22.884	0.249
60	27.092	35.261	22.887	0.299
70	27.090	35.291	22.910	0.349
80	27.002	35.306	22.950	0.398
90	26.790	35.312	23.022	0.447
100	26.605	35.294	23.067	0.496
110	26.312	35.285	23.153	0.544
120	25.737	35.386	23.408	0.591
130	24.612	35.358	23.732	0.634
140	23.945	35.430	23.985	0.676
150	22.760	35.514	24.394	0.713
160	21.809	35.437	24.604	0.748
170	21.338	35.392	24.701	0.781
180	20.032	35.401	25.060	0.813
190	19.360	35.382	25.222	0.842
200	19.028	35.331	25.268	0.870
250	13.574	35.002	26.278	0.978
300	11.689	34.804	26.496	1.063
350	10.640	34.769	26.660	1.137
400	10.477	34.757	26.680	1.210
450	9.069	34.673	26.851	1.280
500	8.042	34.617	26.967	1.341
550	7.826	34.614	26.997	1.399
600	7.331	34.594	27.053	1.456
650	6.896	34.570	27.122	1.509
700	6.316	34.562	27.166	1.561
750	5.936	34.552	27.207	1.609
800	5.738	34.551	27.231	1.656
900	5.267	34.547	27.285	1.747
1000	4.748	34.551	27.348	1.833
1002	4.723	34.552	27.352	1.835

CAST GP9-99-KA-0121 DATE 28 NOV 99 TIME 0725 GMT
 LAT 00 29.9N LONG 179 52.9W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 094 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.8 WET 23.5 DEPTH 5723 M



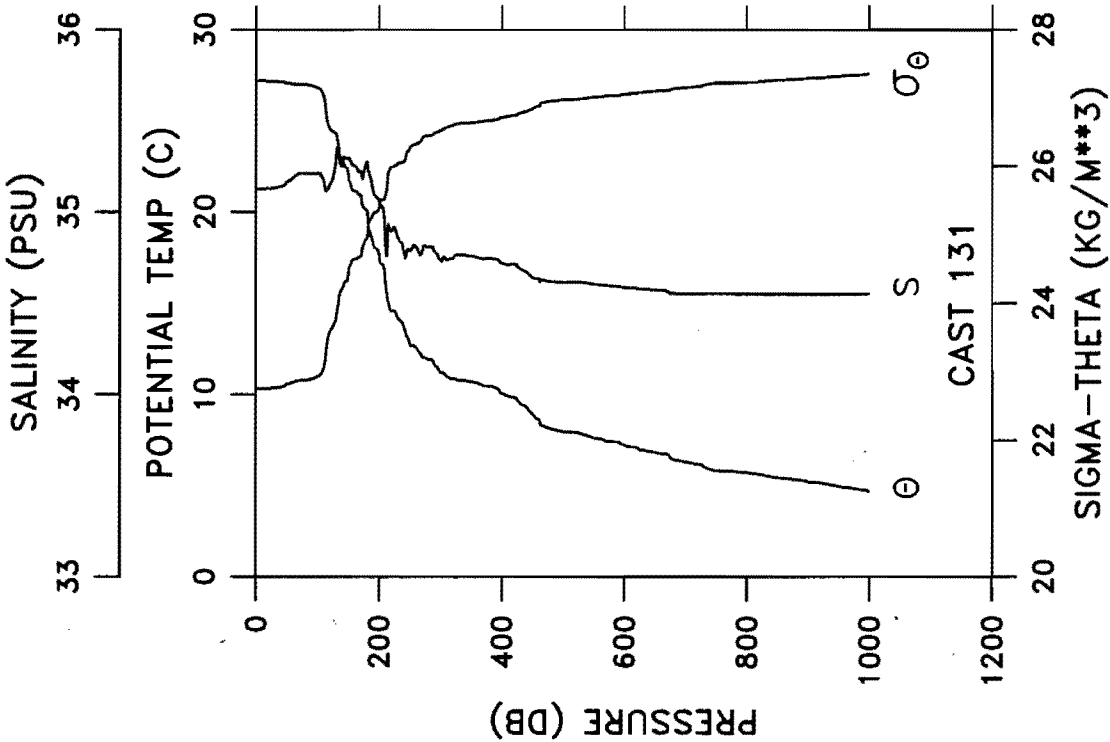
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.268	35.162	22.756	0.000
10	27.166	35.172	22.796	0.051
20	27.083	35.176	22.826	0.101
30	27.051	35.179	22.839	0.152
40	27.042	35.183	22.844	0.202
50	27.031	35.186	22.850	0.252
60	27.021	35.193	22.858	0.302
70	27.017	35.201	22.866	0.352
80	27.008	35.207	22.874	0.403
90	26.976	35.214	22.889	0.453
100	26.922	35.228	22.916	0.503
110	26.778	35.238	22.970	0.552
120	26.041	35.174	23.154	0.601
130	25.206	35.188	23.422	0.647
140	24.405	35.388	23.816	0.691
150	23.363	35.409	24.140	0.730
160	22.854	35.388	24.271	0.767
170	22.108	35.394	24.488	0.804
180	21.298	35.366	24.693	0.837
190	20.684	35.393	24.880	0.870
200	17.861	35.175	25.441	0.897
250	13.543	34.933	26.231	1.007
300	11.409	34.772	26.524	1.091
350	10.965	34.786	26.616	1.167
400	10.263	34.736	26.701	1.240
450	8.780	34.644	26.875	1.308
500	8.091	34.623	26.964	1.368
550	7.852	34.609	26.989	1.426
600	7.272	34.590	27.058	1.483
650	6.766	34.573	27.114	1.537
700	6.418	34.564	27.154	1.589
750	6.070	34.553	27.191	1.639
800	5.789	34.551	27.224	1.687
900	5.288	34.548	27.284	1.779
1000	4.817	34.550	27.339	1.867
1002	4.791	34.550	27.342	1.868

CAST GP9-99-KA-0122 DATE 28 NOV 99 TIME 0835 GMT
 LAT 00 30.2N LONG 179 52.9W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 094 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.8 WET 23.5 DEPTH 5768 M



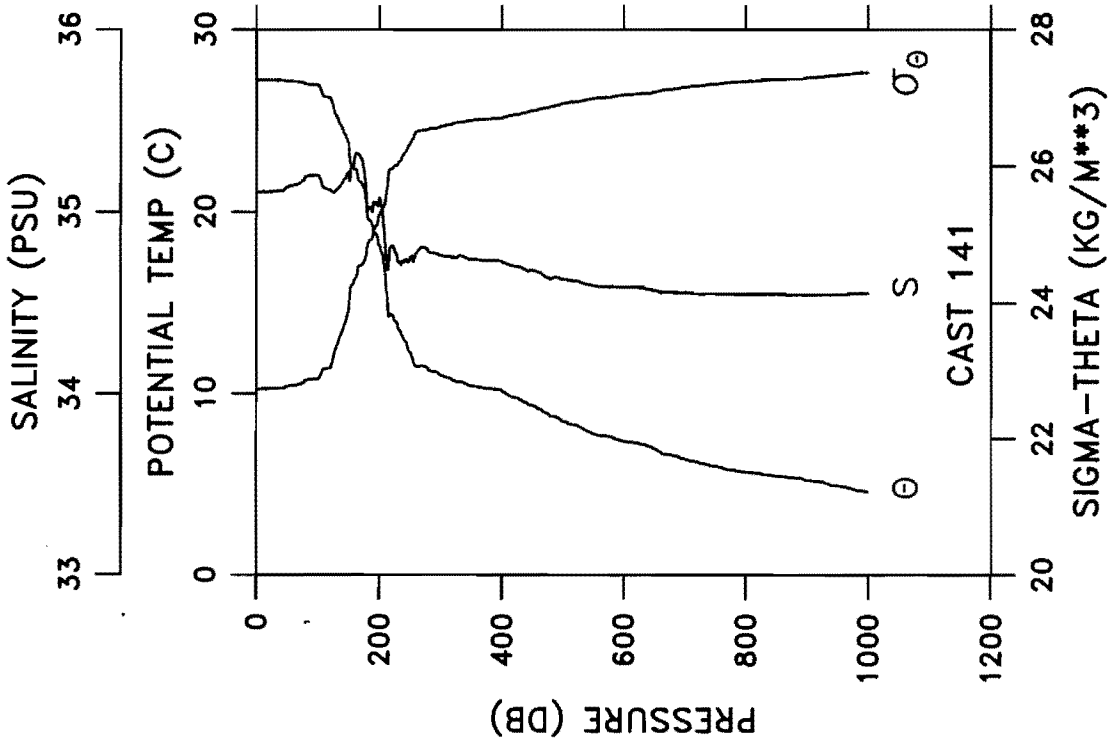
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.233	35.148	22.757	0.000
10	27.236	35.147	22.755	0.051
20	27.107	35.150	22.799	0.102
30	27.061	35.167	22.826	0.152
40	27.032	35.177	22.843	0.203
50	27.024	35.184	22.851	0.253
60	27.014	35.192	22.859	0.303
70	27.006	35.198	22.867	0.353
80	26.988	35.208	22.880	0.403
90	26.951	35.219	22.901	0.453
100	26.809	35.230	22.954	0.503
110	26.310	35.200	23.089	0.552
120	25.225	35.168	23.401	0.599
130	25.087	35.210	23.475	0.644
140	23.493	35.419	24.109	0.684
150	23.060	35.389	24.213	0.722
160	22.598	35.377	24.337	0.760
170	21.497	35.380	24.648	0.795
180	21.155	35.346	24.716	0.828
188	19.231	35.342	25.224	0.854

CAST GP9-99-KA-0131 DATE 28 NOV 99 TIME 1253 GMT
 LAT 00 59.9N LONG 179 51.5W WEATHER 1 SEA STATE 4
 BAROMETER 07 WIND DIR 106 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 3 DRY 26.8 WET 23.8 DEPTH 5815 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.195	35.126	22.753	0.000
10	27.200	35.125	22.750	0.051
20	27.190	35.127	22.755	0.102
30	27.173	35.131	22.764	0.153
40	27.141	35.139	22.779	0.204
50	27.077	35.165	22.819	0.255
60	27.034	35.186	22.849	0.305
70	27.008	35.209	22.875	0.355
80	27.005	35.212	22.878	0.405
90	26.951	35.209	22.893	0.455
100	26.832	35.211	22.932	0.505
110	26.412	35.179	23.041	0.554
120	24.586	35.148	23.580	0.600
130	24.339	35.299	23.768	0.643
140	22.729	35.252	24.204	0.682
150	22.122	35.291	24.407	0.719
160	21.143	35.255	24.650	0.753
170	20.916	35.222	24.687	0.787
180	20.097	35.272	24.944	0.818
190	18.299	35.122	25.292	0.847
200	17.701	35.054	25.398	0.874
250	12.790	34.793	26.275	0.981
300	11.223	34.733	26.528	1.065
350	10.710	34.761	26.642	1.140
400	10.064	34.721	26.724	1.213
450	8.945	34.640	26.846	1.281
500	7.977	34.615	26.976	1.341
550	7.633	34.605	27.018	1.398
600	7.255	34.587	27.058	1.454
650	6.834	34.573	27.105	1.508
700	6.299	34.552	27.160	1.559
750	5.822	34.553	27.222	1.608
800	5.724	34.549	27.231	1.655
900	5.210	34.549	27.294	1.746
1000	4.687	34.552	27.356	1.832
1002	4.687	34.552	27.356	1.834

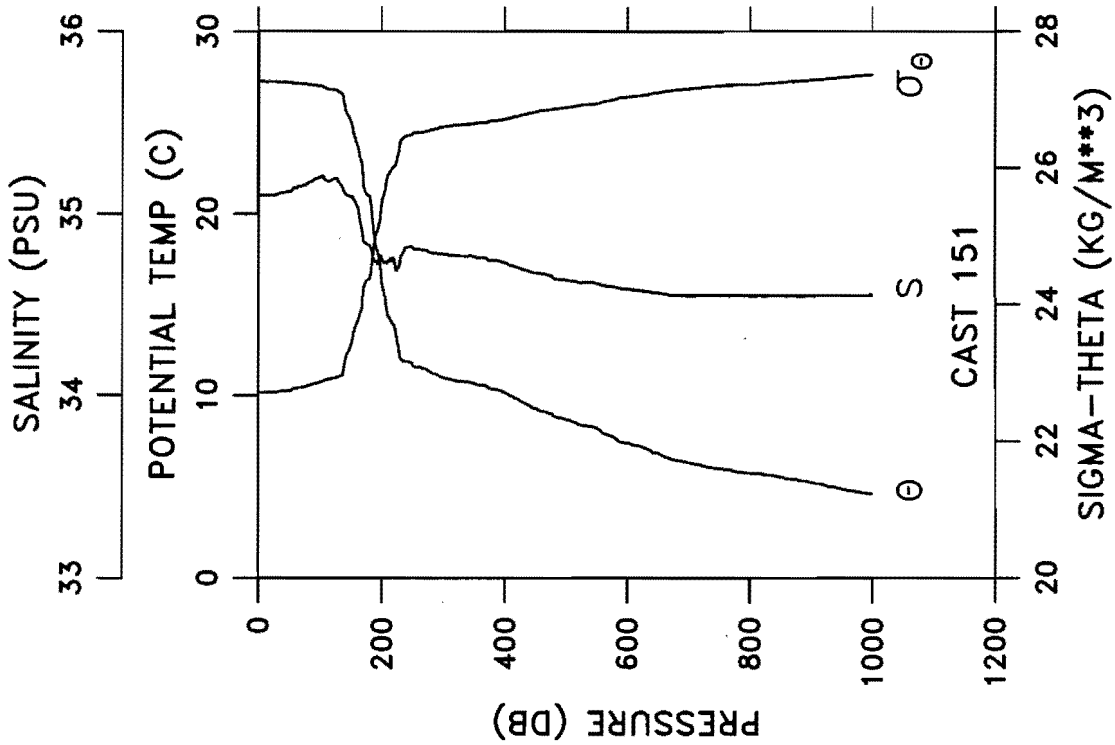
CAST GP9-99-KA-0141 DATE 28 NOV 99 TIME 1653 GMT
 LAT 01 30.2N LONG 179 50.2W WEATHER 1 SEA STATE 5
 BAROMETER 06 WIND DIR 102 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 26.5 WET 24.0 DEPTH 5575 M



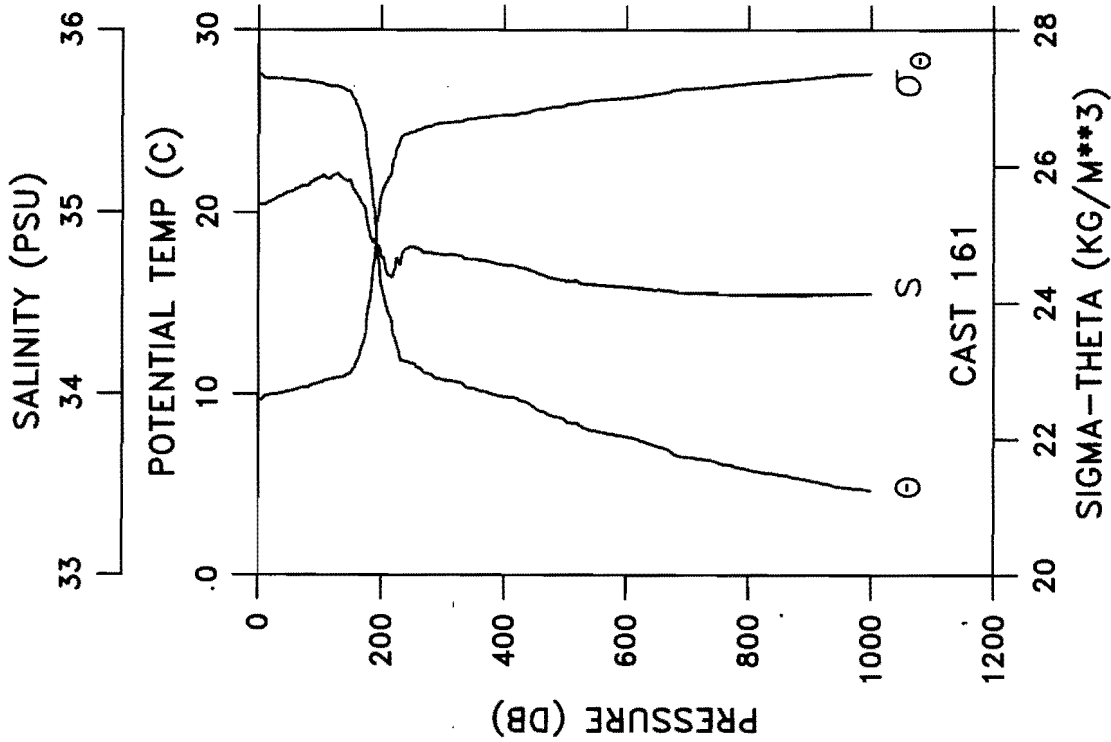
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.210	35.111	22.736	0.000
10	27.205	35.112	22.738	0.051
20	27.206	35.111	22.738	0.102
30	27.203	35.114	22.740	0.153
40	27.195	35.118	22.746	0.205
50	27.148	35.138	22.777	0.256
60	27.128	35.147	22.789	0.307
70	27.101	35.159	22.807	0.357
80	27.002	35.192	22.864	0.408
90	26.985	35.196	22.872	0.458
100	26.940	35.199	22.889	0.508
110	26.321	35.132	23.035	0.558
120	26.256	35.121	23.046	0.606
130	25.225	35.125	23.369	0.653
140	24.556	35.161	23.599	0.698
150	23.647	35.218	23.912	0.740
160	22.343	35.307	24.356	0.778
170	21.622	35.298	24.551	0.813
180	19.839	35.019	24.820	0.847
190	19.067	35.058	25.049	0.878
200	18.142	35.079	25.299	0.906
250	12.295	34.748	26.337	1.014
300	11.033	34.760	26.583	1.092
350	10.435	34.737	26.672	1.166
400	10.197	34.725	26.703	1.238
450	9.347	34.680	26.811	1.306
500	8.479	34.633	26.913	1.370
550	7.772	34.596	26.990	1.430
600	7.367	34.587	27.042	1.487
650	6.961	34.569	27.085	1.542
700	6.392	34.557	27.152	1.594
750	5.999	34.552	27.199	1.644
800	5.659	34.547	27.238	1.691
900	5.206	34.546	27.291	1.782
1000	4.588	34.554	27.368	1.867
1002	4.585	34.553	27.368	1.869

CAST GP9-99-KA-0151 DATE 26 NOV 99 TIME 2106 GMT
 LAT 02 02.6N LONG 179 49.2W WEATHER 1 SEA STATE 5
 BAROMETER 07 WIND DIR 102 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 27.4 WET 25.0 DEPTH 5461 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.270	35.105	22.712	0.000
10	27.261	35.103	22.714	0.051
20	27.260	35.104	22.714	0.103
30	27.254	35.105	22.717	0.154
40	27.224	35.117	22.736	0.205
50	27.215	35.121	22.742	0.257
60	27.170	35.141	22.771	0.308
70	27.141	35.151	22.788	0.359
80	27.090	35.170	22.819	0.409
90	27.048	35.188	22.846	0.460
100	27.013	35.201	22.867	0.510
110	26.861	35.183	22.902	0.561
120	26.810	35.187	22.922	0.611
130	26.689	35.174	22.950	0.660
140	25.921	35.112	23.145	0.710
150	25.037	35.096	23.404	0.756
160	23.795	35.041	23.735	0.800
170	21.681	34.849	24.194	0.840
180	20.976	34.827	24.370	0.877
190	18.212	34.737	25.019	0.910
200	16.237	34.749	25.501	0.939
250	11.690	34.811	26.502	1.035
300	10.984	34.776	26.605	1.112
350	10.668	34.764	26.651	1.186
400	10.167	34.729	26.712	1.258
450	9.289	34.673	26.816	1.326
500	8.675	34.632	26.882	1.391
550	8.204	34.615	26.941	1.452
600	7.392	34.585	27.037	1.510
650	6.845	34.563	27.096	1.565
700	6.321	34.547	27.154	1.616
750	5.993	34.549	27.197	1.666
800	5.747	34.547	27.227	1.713
900	5.237	34.548	27.290	1.805
1000	4.610	34.553	27.365	1.890
1004	4.608	34.553	27.365	1.894

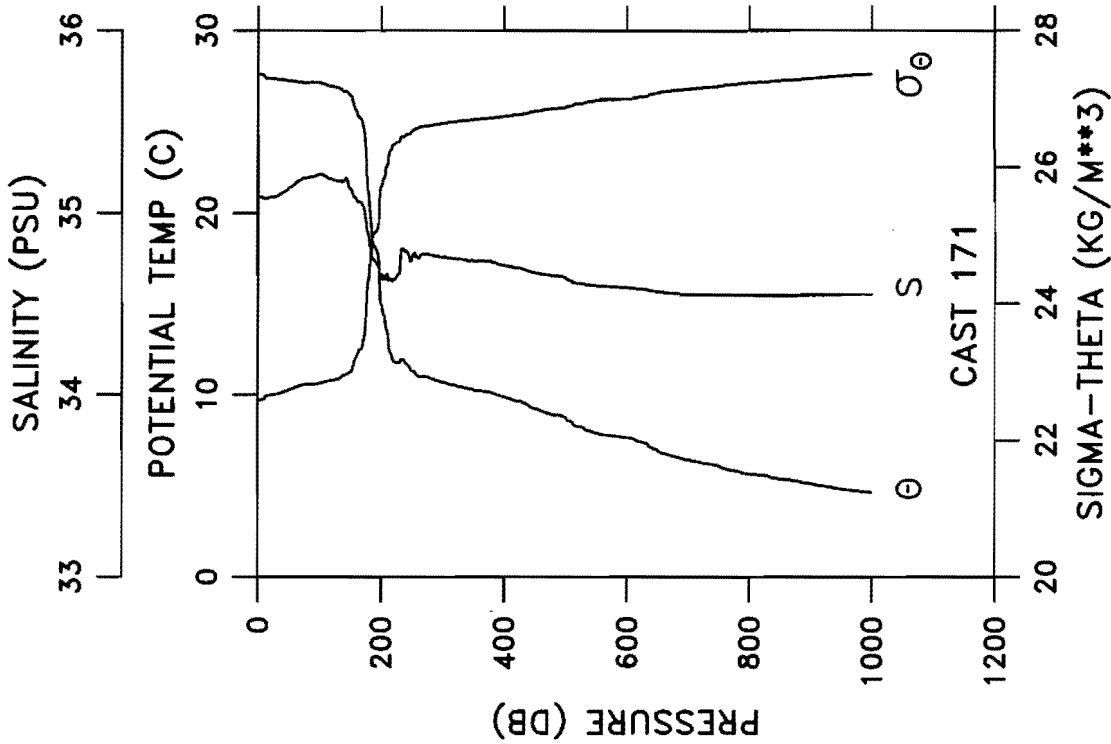


CAST GP9-99-KA-0161 DATE 29 NOV 99 TIME 0055 GMT
 LAT 02 30.5N LONG 179 49.8W WEATHER 1 SEA STATE 5
 BAROMETER 05 WIND DIR 101 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 4 DRY 27.4 WET 25.5 DEPTH 5332 M



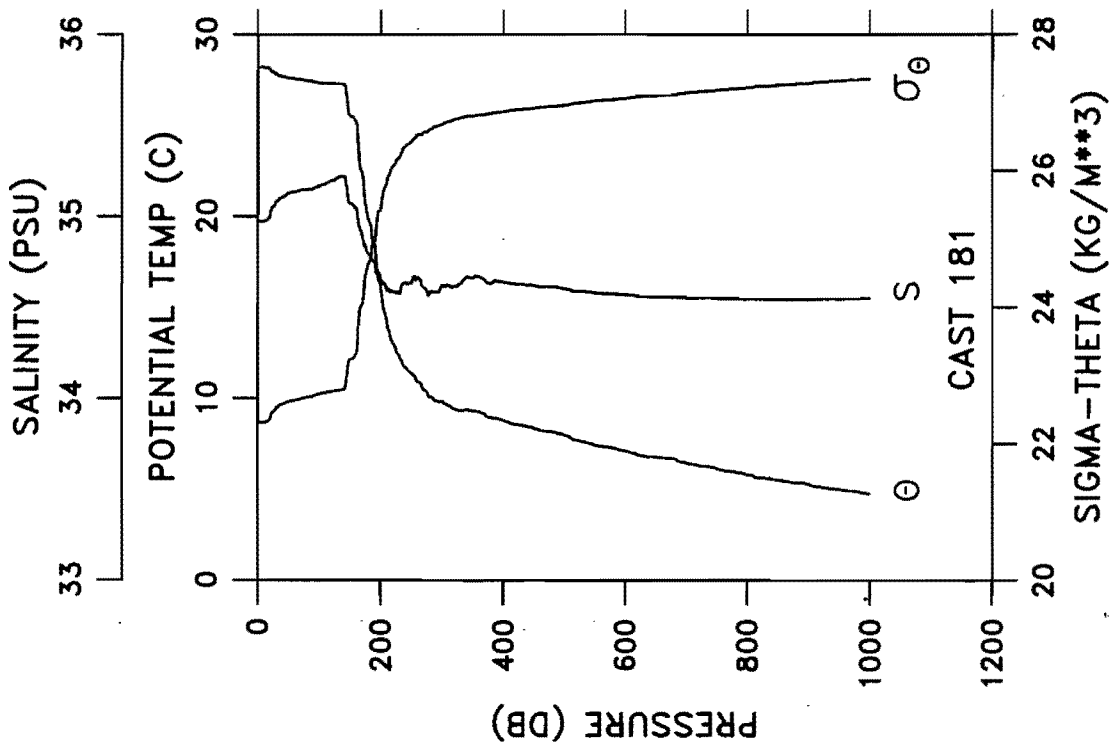
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.545	35.046	22.579	0.000
10	27.378	35.043	22.631	0.052
20	27.335	35.060	22.658	0.104
30	27.335	35.079	22.672	0.156
40	27.324	35.096	22.688	0.208
50	27.293	35.111	22.710	0.260
60	27.263	35.123	22.728	0.311
70	27.211	35.143	22.760	0.363
80	27.205	35.145	22.764	0.414
90	27.136	35.178	22.810	0.465
100	27.087	35.193	22.838	0.515
110	26.966	35.189	22.873	0.566
120	26.931	35.200	22.892	0.616
130	26.909	35.211	22.908	0.666
140	26.762	35.179	22.930	0.716
150	26.604	35.174	22.977	0.766
160	25.898	35.097	23.140	0.815
170	24.883	35.043	23.411	0.861
180	22.488	34.896	24.003	0.904
190	19.398	34.851	24.806	0.940
200	15.883	34.755	25.587	0.968
250	11.672	34.808	26.503	1.063
300	10.764	34.766	26.636	1.139
350	10.300	34.741	26.698	1.212
400	9.841	34.708	26.752	1.281
450	9.239	34.671	26.823	1.349
500	8.545	34.622	26.894	1.413
550	7.946	34.600	26.968	1.473
600	7.633	34.587	27.004	1.532
650	7.121	34.571	27.065	1.588
700	6.505	34.556	27.136	1.641
750	6.207	34.551	27.171	1.692
800	5.810	34.545	27.217	1.740
900	5.228	34.546	27.289	1.833
1000	4.659	34.553	27.360	1.918
1002	4.653	34.553	27.360	1.919

CAST GP9-99-KA-0171 DATE 29 NOV 99 TIME 0432 GMT
 LAT 03 00.3N LONG 179 50.7W WEATHER 1 SEA STATE 5
 BAROMETER 06 WIND DIR 107 T SPD 10 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 26.8 WET 24.2 DEPTH 5624 M



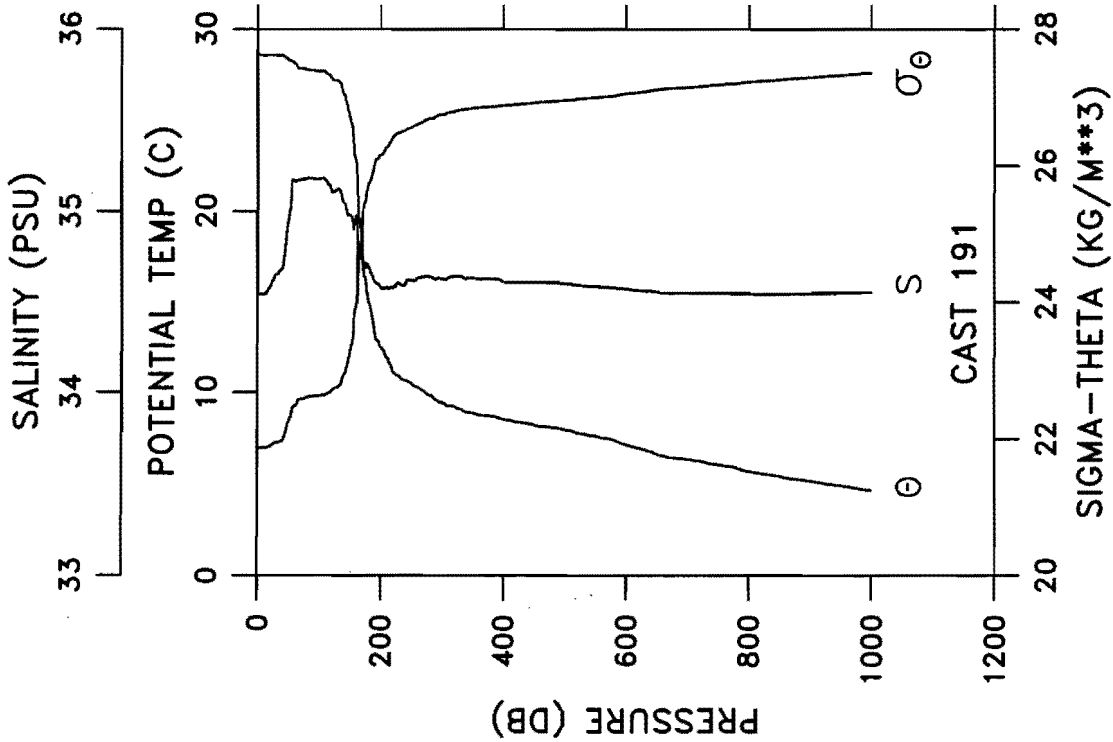
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.610	35.089	22.591	0.000
10	27.543	35.084	22.608	0.052
20	27.381	35.087	22.663	0.104
30	27.348	35.093	22.678	0.156
40	27.305	35.112	22.706	0.208
50	27.257	35.138	22.741	0.259
60	27.220	35.160	22.770	0.310
70	27.175	35.186	22.804	0.361
80	27.162	35.196	22.816	0.412
90	27.170	35.202	22.817	0.463
100	27.161	35.215	22.830	0.513
110	27.052	35.202	22.856	0.564
120	26.963	35.188	22.873	0.614
130	26.880	35.179	22.893	0.665
140	26.684	35.179	22.955	0.715
150	26.440	35.136	23.000	0.764
160	25.574	35.074	23.223	0.812
170	24.888	35.042	23.409	0.859
180	20.981	34.859	24.393	0.900
190	18.090	34.732	25.045	0.931
200	14.931	34.660	25.726	0.959
250	11.289	34.757	26.534	1.048
300	10.667	34.754	26.644	1.123
350	10.285	34.735	26.696	1.195
400	9.890	34.711	26.745	1.265
450	9.248	34.671	26.821	1.332
500	8.741	34.641	26.879	1.397
550	7.882	34.598	26.976	1.457
600	7.644	34.587	27.002	1.515
650	6.926	34.565	27.087	1.571
700	6.402	34.550	27.146	1.623
750	6.081	34.546	27.184	1.673
800	5.640	34.546	27.239	1.721
900	5.119	34.547	27.303	1.812
1000	4.633	34.552	27.362	1.896
1003	4.610	34.552	27.365	1.898

CAST GP9-99-KA-0181 DATE 29 NOV 99 TIME 1052 GMT
 LAT 03 59.9N LONG 179 53.1W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 119 T SPD 16 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 27.0 WET 24.5 DEPTH 5734 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.186	34.974	22.316	0.000
10	28.185	34.974	22.317	0.055
20	28.073	35.008	22.379	0.110
30	27.772	35.083	22.534	0.164
40	27.680	35.105	22.580	0.217
50	27.601	35.128	22.623	0.269
60	27.560	35.133	22.640	0.322
70	27.512	35.144	22.664	0.374
80	27.460	35.146	22.682	0.426
90	27.415	35.153	22.702	0.478
100	27.341	35.164	22.734	0.530
110	27.321	35.177	22.750	0.581
120	27.298	35.196	22.772	0.632
130	27.289	35.213	22.788	0.684
140	27.264	35.219	22.800	0.735
150	25.501	35.070	23.243	0.784
160	25.188	35.047	23.321	0.831
170	22.325	34.895	24.048	0.872
180	19.862	34.795	24.643	0.908
190	18.479	34.750	24.963	0.940
200	16.199	34.652	25.435	0.968
250	11.352	34.633	26.426	1.066
300	9.834	34.622	26.685	1.142
350	9.301	34.661	26.804	1.209
400	8.806	34.640	26.868	1.273
450	8.362	34.621	26.922	1.335
500	7.996	34.605	26.964	1.395
550	7.441	34.582	27.028	1.452
600	7.130	34.572	27.064	1.507
650	6.798	34.560	27.100	1.561
700	6.449	34.554	27.142	1.613
750	6.132	34.551	27.181	1.663
800	5.806	34.547	27.220	1.711
900	5.291	34.545	27.281	1.804
1000	4.760	34.552	27.348	1.890
1005	4.753	34.551	27.348	1.894

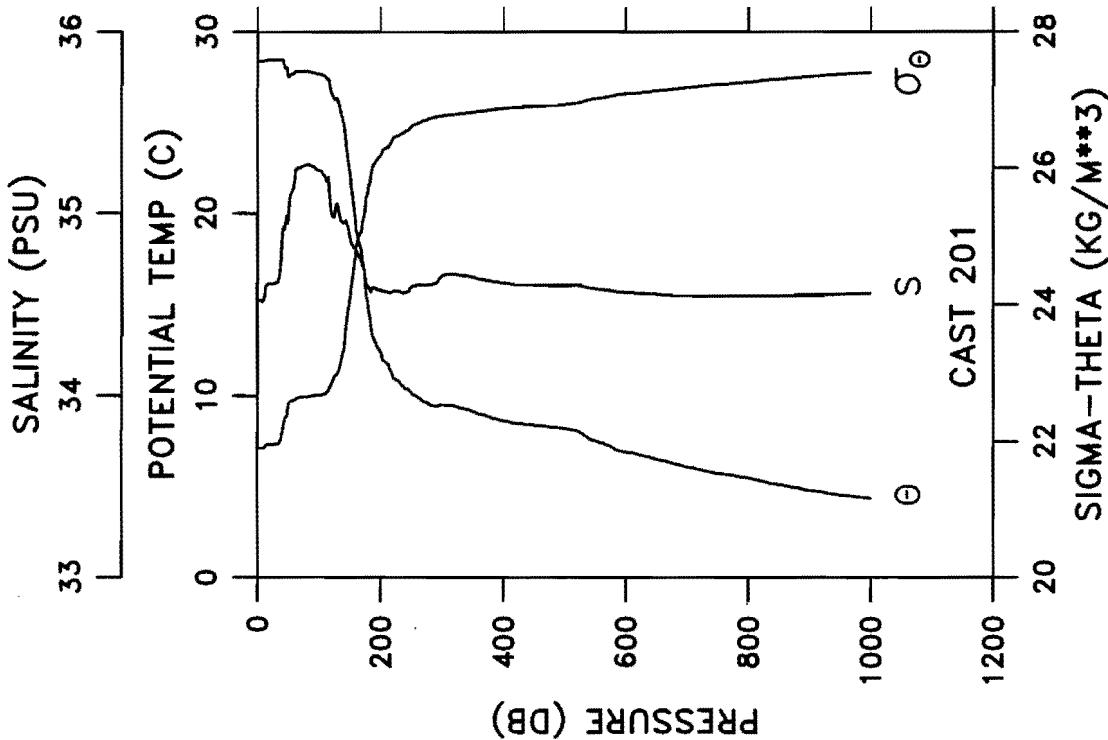
CAST GP9-99-KA-0191 DATE 29 NOV 99 TIME 1759 GMT
 LAT 05 00.5N LONG 179 54.8W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 110 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 6 DRY 27.5 WET 25.1 DEPTH 5653 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.578	34.546	21.866	0.000
10	28.575	34.545	21.866	0.059
20	28.593	34.581	21.887	0.119
30	28.578	34.650	21.944	0.178
40	28.584	34.683	21.966	0.237
50	28.336	34.941	22.242	0.294
60	28.134	35.166	22.478	0.349
70	27.857	35.173	22.574	0.402
80	27.793	35.179	22.599	0.455
90	27.745	35.180	22.615	0.508
100	27.712	35.178	22.624	0.560
110	27.667	35.174	22.636	0.613
120	27.349	35.115	22.695	0.665
130	27.192	35.120	22.749	0.717
140	26.425	35.047	22.938	0.768
150	25.217	34.980	23.262	0.816
160	22.812	34.976	23.971	0.860
170	18.014	34.728	25.061	0.894
180	14.989	34.695	25.740	0.920
190	13.285	34.614	26.037	0.942
200	12.537	34.582	26.161	0.961
250	10.524	34.619	26.564	1.044
300	9.473	34.629	26.751	1.115
350	8.909	34.633	26.846	1.181
400	8.547	34.614	26.887	1.243
450	8.254	34.609	26.929	1.304
500	7.997	34.602	26.962	1.364
550	7.642	34.587	27.003	1.422
600	7.174	34.575	27.060	1.478
650	6.660	34.558	27.117	1.531
700	6.378	34.550	27.148	1.582
750	6.079	34.550	27.187	1.632
800	5.711	34.546	27.230	1.680
900	5.170	34.547	27.296	1.772
1000	4.648	34.555	27.363	1.856
1002	4.634	34.556	27.365	1.858

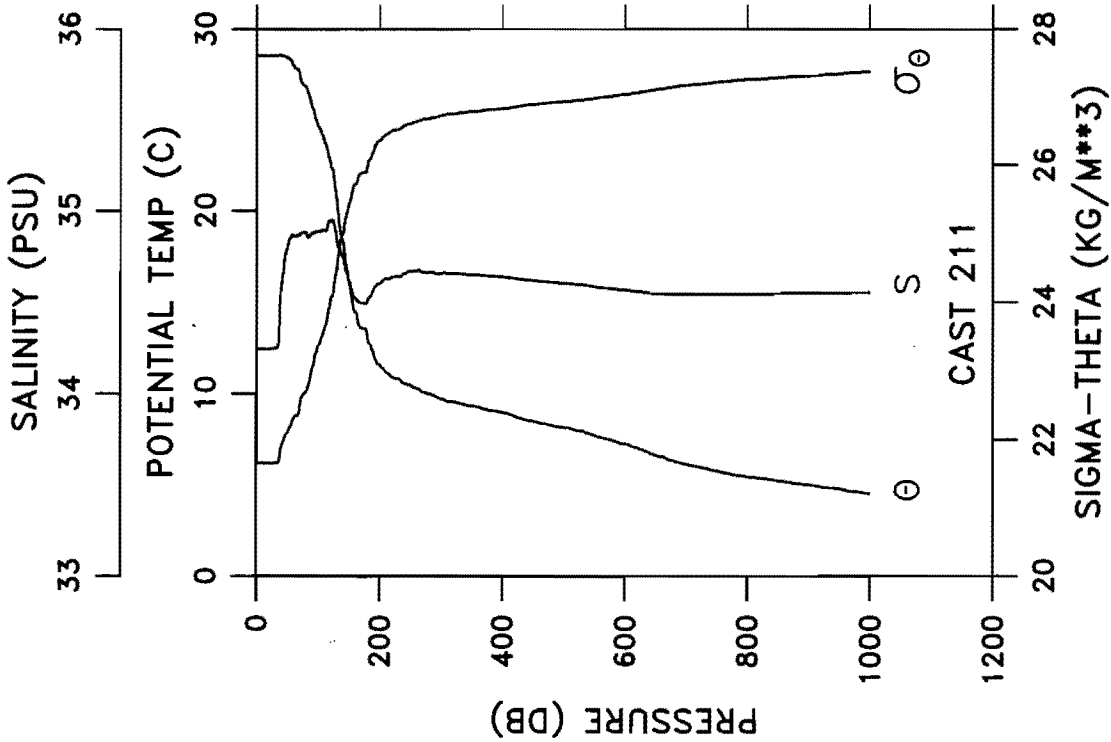
CAST GP9-99-KA-0201 DATE 30 NOV 99 TIME 0101 GMT
 LAT 06 00.1N LONG 179 53.4W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 081 T SPD 24 KT VISIBILITY 7
 CLOUD 8 AMOUNT 7 DRY 25.5 WET 24.3 DEPTH 5405 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.413	34.524	21.904	0.000
10	28.413	34.528	21.907	0.059
20	28.451	34.612	21.957	0.118
30	28.449	34.618	21.962	0.176
40	28.487	34.854	22.127	0.235
50	27.488	34.969	22.539	0.290
60	27.751	35.172	22.607	0.343
70	27.812	35.255	22.650	0.395
80	27.821	35.265	22.655	0.447
90	27.758	35.258	22.669	0.499
100	27.665	35.235	22.683	0.551
110	27.538	35.197	22.696	0.603
120	26.621	34.999	22.840	0.655
130	26.240	35.046	22.995	0.705
140	24.943	34.945	23.319	0.752
150	22.241	34.876	24.057	0.795
160	19.051	34.783	24.843	0.830
170	17.499	34.715	25.177	0.860
180	14.799	34.590	25.701	0.886
190	13.070	34.592	26.063	0.908
200	12.395	34.578	26.186	0.927
250	10.189	34.595	26.603	1.009
300	9.516	34.658	26.767	1.079
350	9.153	34.650	26.820	1.144
400	8.641	34.618	26.876	1.208
450	8.401	34.608	26.905	1.269
500	8.203	34.602	26.931	1.330
550	7.556	34.587	27.015	1.389
600	6.920	34.566	27.088	1.444
650	6.532	34.557	27.134	1.496
700	6.104	34.548	27.183	1.547
750	5.746	34.546	27.226	1.594
800	5.500	34.546	27.256	1.641
900	4.812	34.553	27.342	1.728
1000	4.371	34.562	27.399	1.808
1004	4.365	34.562	27.399	1.811

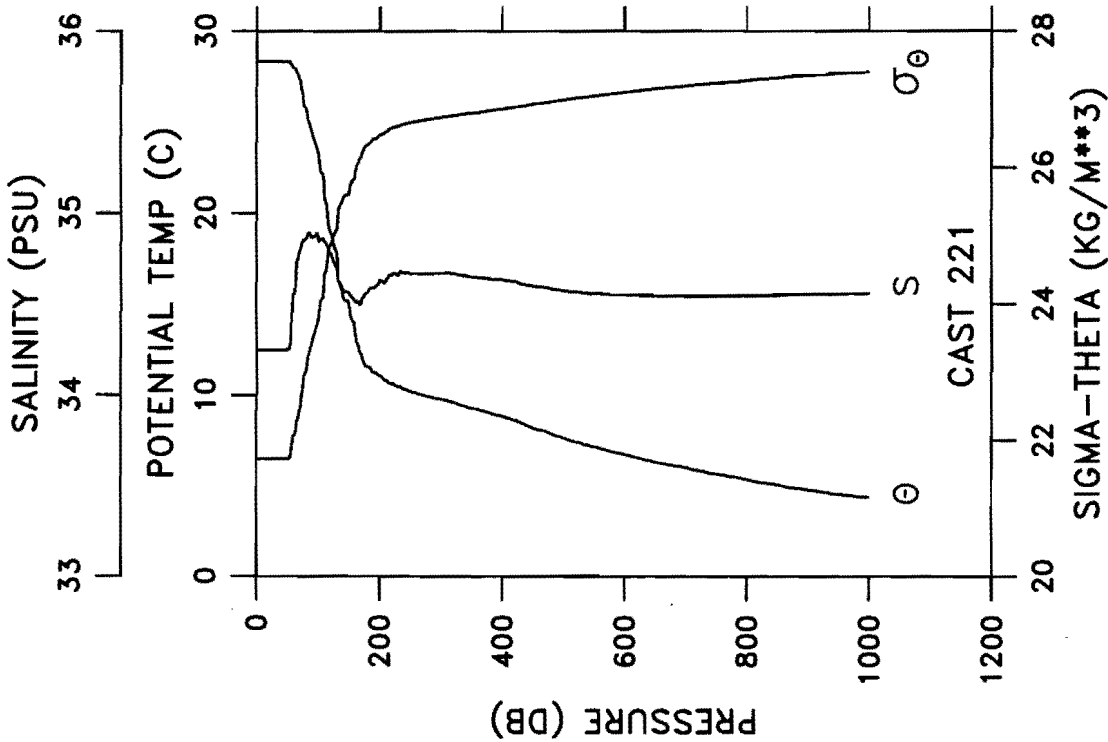


CAST GP9-99-KA-0211 DATE 30 NOV 99 TIME 0841 GMT
 LAT 06 59.8N LONG 179 52.4W WEATHER 1 SEA STATE 5
 BAROMETER 10 WIND DIR 080 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 26.3 WET 24.3 DEPTH 5698 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.542	34.246	21.652	0.000
10	28.542	34.245	21.652	0.061
20	28.538	34.245	21.653	0.123
30	28.540	34.248	21.654	0.185
40	28.538	34.558	21.888	0.246
50	28.431	34.796	22.102	0.304
60	27.943	34.864	22.313	0.360
70	27.440	34.866	22.478	0.415
80	26.830	34.882	22.685	0.468
90	25.734	34.875	23.024	0.518
100	24.642	34.890	23.368	0.565
110	23.880	34.894	23.598	0.610
120	22.558	34.941	24.017	0.651
130	20.692	34.853	24.467	0.689
140	18.357	34.750	24.993	0.721
150	16.122	34.618	25.427	0.749
160	14.471	34.524	25.720	0.773
170	13.587	34.496	25.884	0.795
180	13.143	34.507	25.983	0.817
190	12.170	34.569	26.222	0.836
200	11.563	34.603	26.363	0.854
250	10.466	34.671	26.615	0.932
300	9.725	34.658	26.732	1.003
350	9.341	34.651	26.790	1.070
400	9.008	34.640	26.835	1.135
450	8.531	34.620	26.894	1.198
500	8.168	34.604	26.938	1.259
550	7.757	34.585	26.984	1.318
600	7.275	34.569	27.041	1.375
650	6.635	34.547	27.112	1.429
700	6.141	34.546	27.176	1.480
750	5.779	34.546	27.222	1.528
800	5.440	34.545	27.263	1.574
900	5.016	34.548	27.315	1.662
1000	4.521	34.556	27.377	1.745
1003	4.506	34.556	27.379	1.747



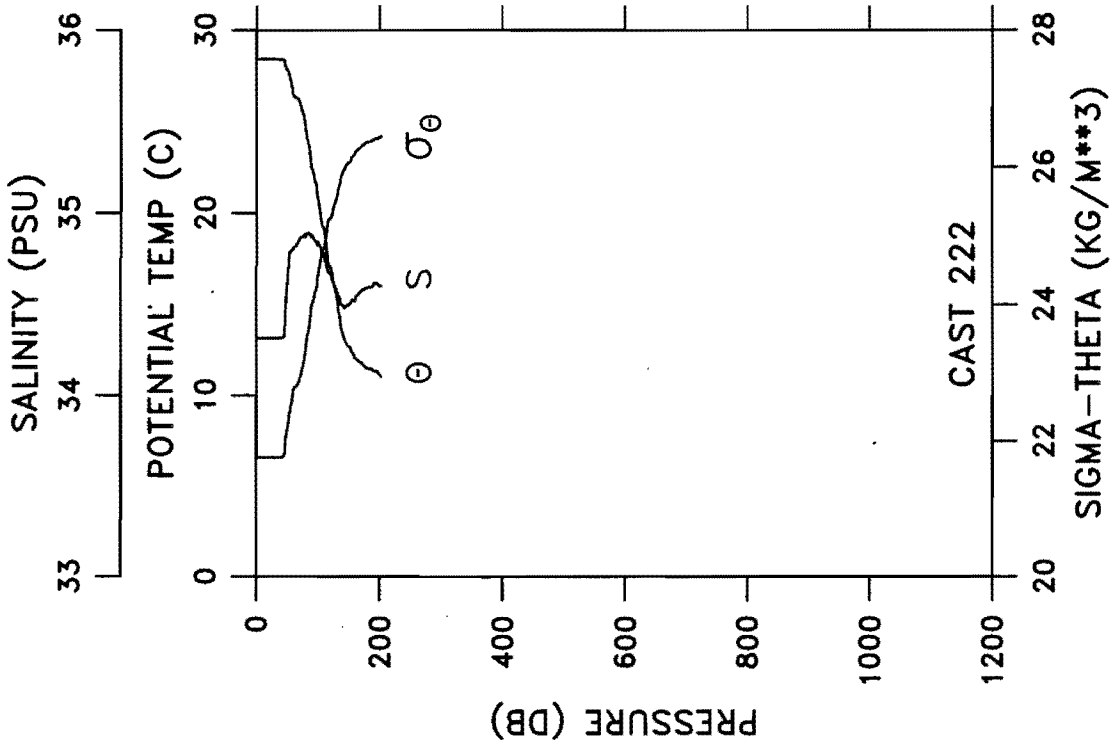
CAST GP9-99-KA-0221 DATE 30 NOV 99 TIME 1709 GMT
 LAT 07 58.4N LONG 179 49.6W WEATHER 1 SEA STATE 5
 BAROMETER 08 WIND DIR 063 T SPD 19 KT VISIBILITY 7
 CLOUD 8 AMOUNT 5 DRY 25.6 WET 24.1 DEPTH 5867 M



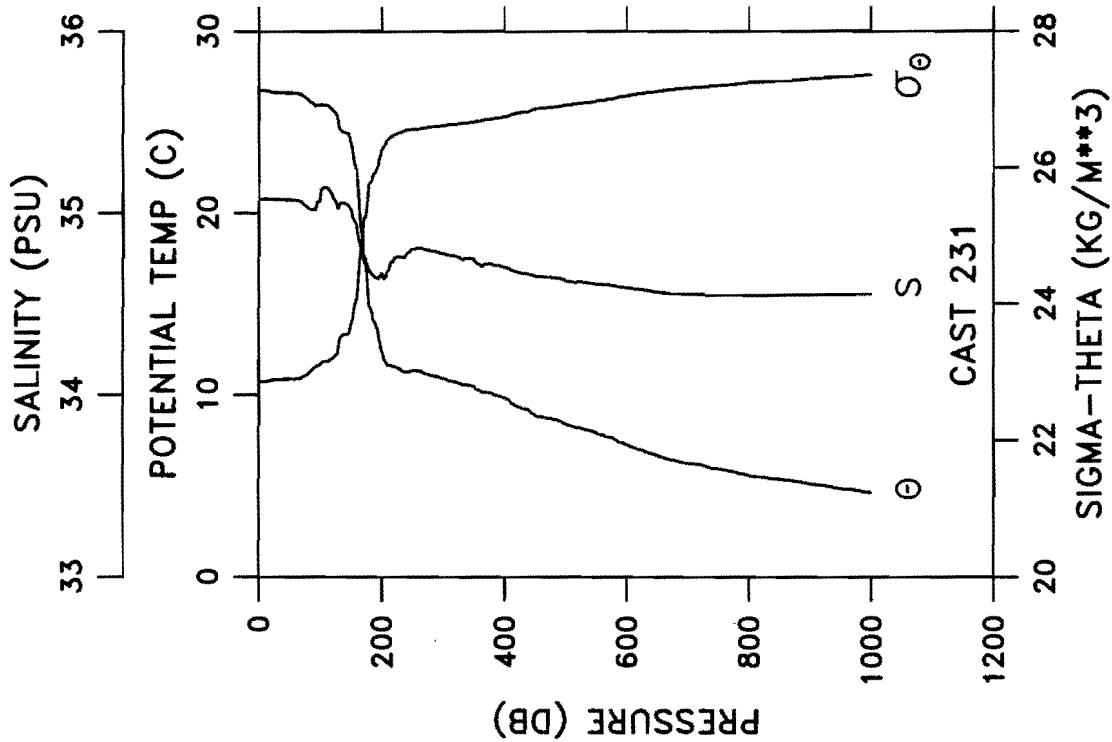
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.316	34.245	21.726	0.000
10	28.314	34.247	21.728	0.061
20	28.321	34.247	21.726	0.122
30	28.320	34.246	21.725	0.182
40	28.320	34.246	21.726	0.243
50	28.312	34.250	21.731	0.304
60	27.963	34.553	22.073	0.364
70	27.310	34.793	22.465	0.420
80	25.765	34.856	23.000	0.471
90	24.400	34.864	23.421	0.518
100	23.298	34.861	23.744	0.561
110	20.863	34.839	24.410	0.600
120	18.929	34.777	24.870	0.634
130	17.833	34.699	25.084	0.664
140	15.489	34.580	25.541	0.690
150	15.043	34.566	25.628	0.714
160	13.489	34.517	25.920	0.737
170	12.239	34.505	26.159	0.756
180	11.562	34.563	26.333	0.774
190	11.238	34.593	26.416	0.781
200	11.080	34.632	26.475	0.808
250	10.207	34.668	26.658	0.882
300	9.776	34.672	26.735	0.952
350	9.288	34.648	26.796	1.019
400	8.848	34.633	26.856	1.084
450	8.199	34.600	26.930	1.146
500	7.627	34.574	26.994	1.205
550	7.150	34.557	27.049	1.260
600	6.738	34.552	27.102	1.314
650	6.295	34.546	27.156	1.365
700	5.994	34.544	27.193	1.414
750	5.645	34.543	27.236	1.461
800	5.337	34.545	27.275	1.507
900	4.753	34.555	27.350	1.592
1000	4.351	34.561	27.400	1.672
1500	2.791	34.607	27.591	2.011
2000	2.016	34.643	27.684	2.284
2500	1.663	34.663	27.728	2.526
3000	1.443	34.673	27.752	2.758
3500	1.257	34.682	27.772	2.983
4000	1.067	34.692	27.793	3.201
4004	1.067	34.691	27.793	3.203

CAST GP9-99-KA-0222 DATE 01 DEC 99 TIME 0433 GMT
 LAT 08 00.4N LONG 179 53.1W WEATHER SEA STATE 5
 BAROMETER 09 WIND DIR 062 T SPD 08 KT VISIBILITY 7
 CLOUD AMOUNT DRY WET DEPTH 5950 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.404	34.315	21.749	0.000
10	28.404	34.313	21.748	0.061
20	28.402	34.313	21.749	0.121
30	28.402	34.314	21.750	0.182
40	28.403	34.314	21.749	0.242
50	27.837	34.624	22.167	0.302
60	26.435	34.811	22.756	0.356
70	26.046	34.860	22.915	0.406
80	24.542	34.875	23.387	0.454
90	22.412	34.876	24.009	0.497
100	20.783	34.839	24.431	0.534
110	19.014	34.753	24.830	0.567
120	17.011	34.664	25.255	0.596
130	15.399	34.576	25.557	0.622
140	13.369	34.497	25.929	0.645
150	12.676	34.497	26.068	0.665
160	12.035	34.522	26.212	0.684
170	11.794	34.575	26.299	0.702
180	11.491	34.592	26.368	0.720
190	11.364	34.618	26.412	0.736
200	11.153	34.602	26.438	0.753
202	11.061	34.602	26.455	0.756

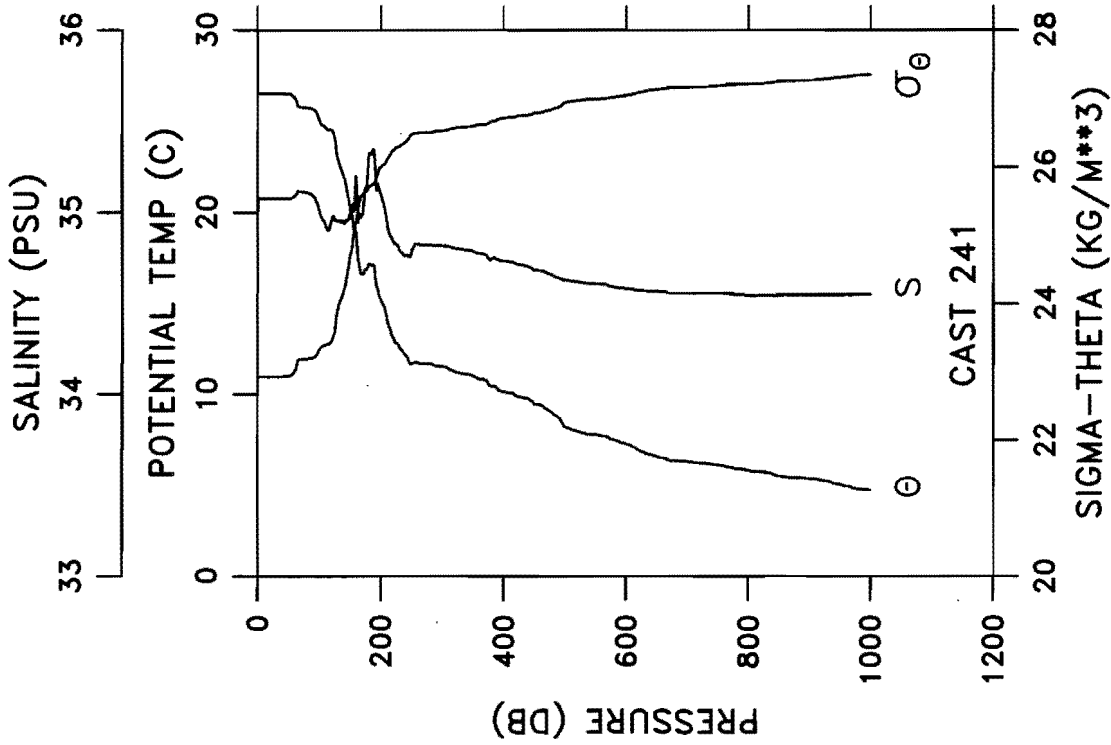


CAST GP9-99-KA-0231 DATE 05 DEC 99 TIME 0348 GMT
 LAT 02 00.2N LONG 170 03.7W WEATHER 1 SEA STATE 5
 BAROMETER 06 WIND DIR 101 T SPD 20 KT VISIBILITY 7
 CLOUD 6 AMOUNT 7 DRY 26.5 WET 23.5 DEPTH 5403 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.752	35.077	22.857	0.000
10	26.750	35.078	22.859	0.050
20	26.670	35.076	22.882	0.100
30	26.640	35.076	22.891	0.150
40	26.621	35.073	22.895	0.199
50	26.613	35.073	22.898	0.249
60	26.594	35.070	22.902	0.299
70	26.513	35.059	22.919	0.349
80	26.262	35.029	22.975	0.398
90	25.958	35.018	23.062	0.447
100	25.977	35.099	23.117	0.495
110	25.946	35.139	23.157	0.542
120	25.664	35.091	23.208	0.590
130	24.794	35.045	23.439	0.636
140	24.439	35.053	23.552	0.681
150	23.817	35.013	23.707	0.724
160	21.921	34.894	24.161	0.764
170	17.466	34.762	25.221	0.797
180	14.800	34.681	25.771	0.823
190	13.833	34.644	25.948	0.845
200	12.350	34.664	26.261	0.864
250	11.306	34.801	26.565	0.944
300	10.901	34.775	26.619	1.019
350	10.453	34.743	26.673	1.092
400	9.824	34.702	26.750	1.163
450	8.882	34.651	26.864	1.229
500	8.397	34.627	26.921	1.291
550	7.883	34.609	26.984	1.351
600	7.262	34.588	27.058	1.408
650	6.679	34.565	27.120	1.461
700	6.216	34.552	27.171	1.512
750	5.907	34.546	27.206	1.560
800	5.542	34.547	27.252	1.607
900	5.087	34.548	27.307	1.697
1000	4.608	34.553	27.366	1.781
1003	4.593	34.553	27.367	1.784

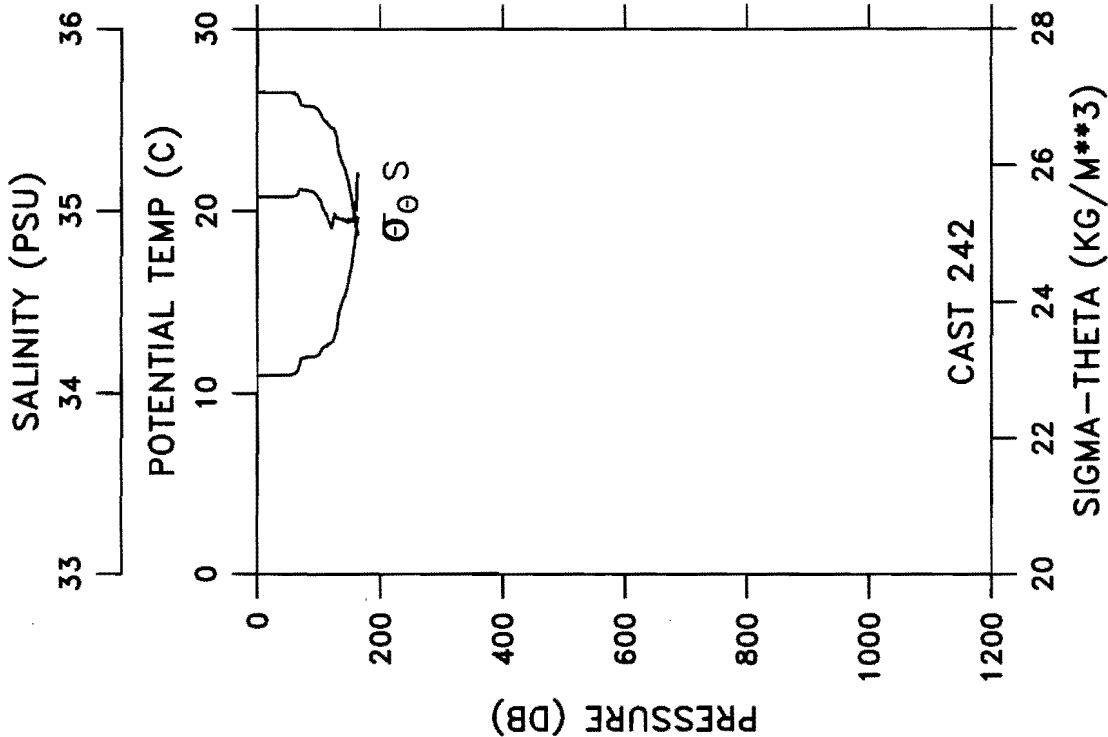
CAST GP9-99-KA-0241 DATE 05 DEC 99 TIME 1115 GMT
 LAT 01 00.1N LONG 170 02.7W WEATHER 1 SEA STATE 5
 BAROMETER 09 WIND DIR 077 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.0 WET 24.6 DEPTH 5455 M



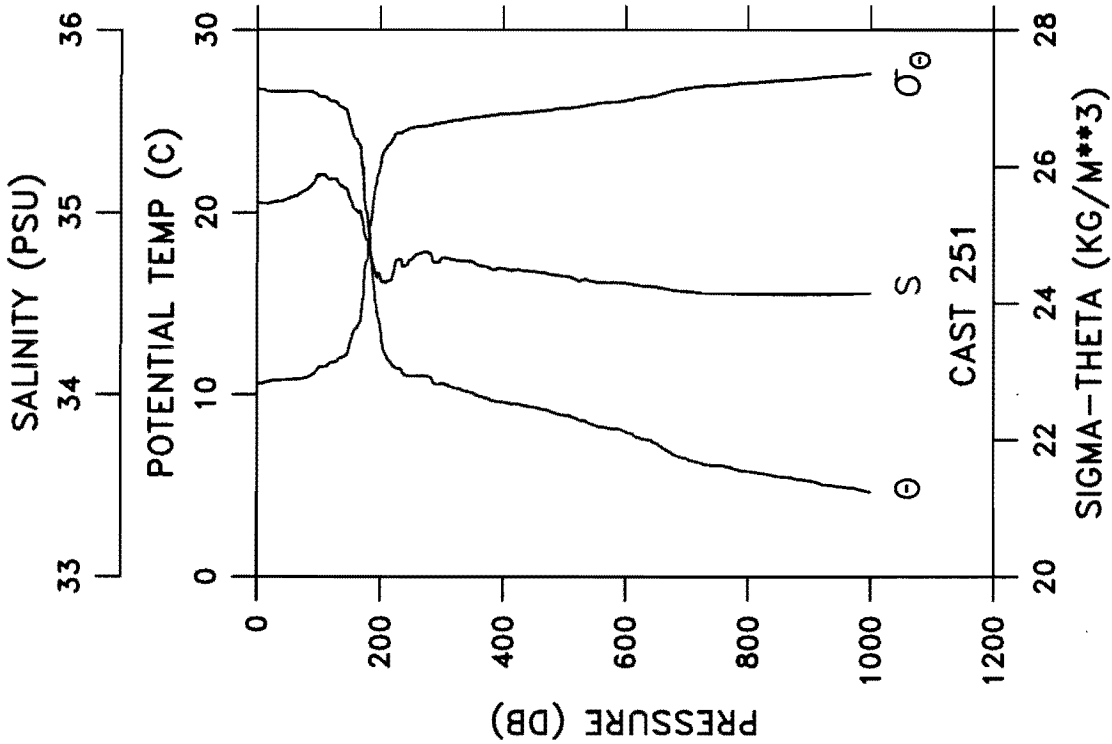
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.529	35.078	22.928	0.000
10	26.527	35.076	22.927	0.049
20	26.528	35.077	22.927	0.099
30	26.527	35.077	22.928	0.148
40	26.525	35.077	22.929	0.197
50	26.493	35.079	22.940	0.247
60	26.303	35.091	23.009	0.296
70	25.788	35.114	23.187	0.344
80	25.749	35.109	23.196	0.391
90	25.657	35.091	23.210	0.438
100	25.087	35.011	23.325	0.484
110	24.664	34.931	23.392	0.530
120	24.540	34.958	23.450	0.575
130	22.939	34.952	23.917	0.618
140	21.907	34.942	24.202	0.657
150	20.151	34.974	24.703	0.692
160	18.836	35.184	25.205	0.723
170	16.630	34.991	25.596	0.748
180	17.180	35.313	25.713	0.772
190	16.841	35.283	25.770	0.795
200	15.208	35.098	26.002	0.817
250	11.717	34.788	26.479	0.908
300	11.548	34.819	26.534	0.987
350	11.039	34.789	26.605	1.064
400	10.136	34.735	26.722	1.137
450	9.481	34.687	26.795	1.206
500	8.232	34.632	26.950	1.271
550	7.802	34.610	26.997	1.329
600	7.260	34.583	27.054	1.386
650	6.579	34.570	27.138	1.438
700	6.295	34.559	27.167	1.489
750	6.101	34.558	27.191	1.538
800	5.806	34.546	27.218	1.586
900	5.346	34.547	27.276	1.679
1000	4.719	34.551	27.351	1.765
1002	4.711	34.551	27.352	1.767

CAST GP9-99-KA-0242 DATE 05 DEC 99 TIME 1231 GMT
 LAT 01 00.4N LONG 170 02.7W WEATHER 1 SEA STATE 5
 BAROMETER 09 WIND DIR 108 T SPD 12 KT VISIBILITY 7
 CLOUD 8 AMOUNT 2 DRY 26.2 WET 24.6 DEPTH 5446 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.522	35.076	22.929	0.000
10	26.521	35.078	22.930	0.049
20	26.517	35.078	22.932	0.099
30	26.516	35.078	22.932	0.148
40	26.517	35.078	22.932	0.197
50	26.519	35.078	22.931	0.247
60	26.454	35.083	22.955	0.296
70	25.951	35.121	23.142	0.345
80	25.758	35.113	23.196	0.392
90	25.724	35.105	23.200	0.439
100	25.517	35.066	23.235	0.486
110	24.971	34.995	23.348	0.532
120	24.576	34.911	23.404	0.577
130	23.870	34.958	23.650	0.622
140	22.476	34.947	24.045	0.662
150	21.254	34.951	24.389	0.700
160	19.321	35.031	24.964	0.734
164	18.702	35.182	25.237	0.745



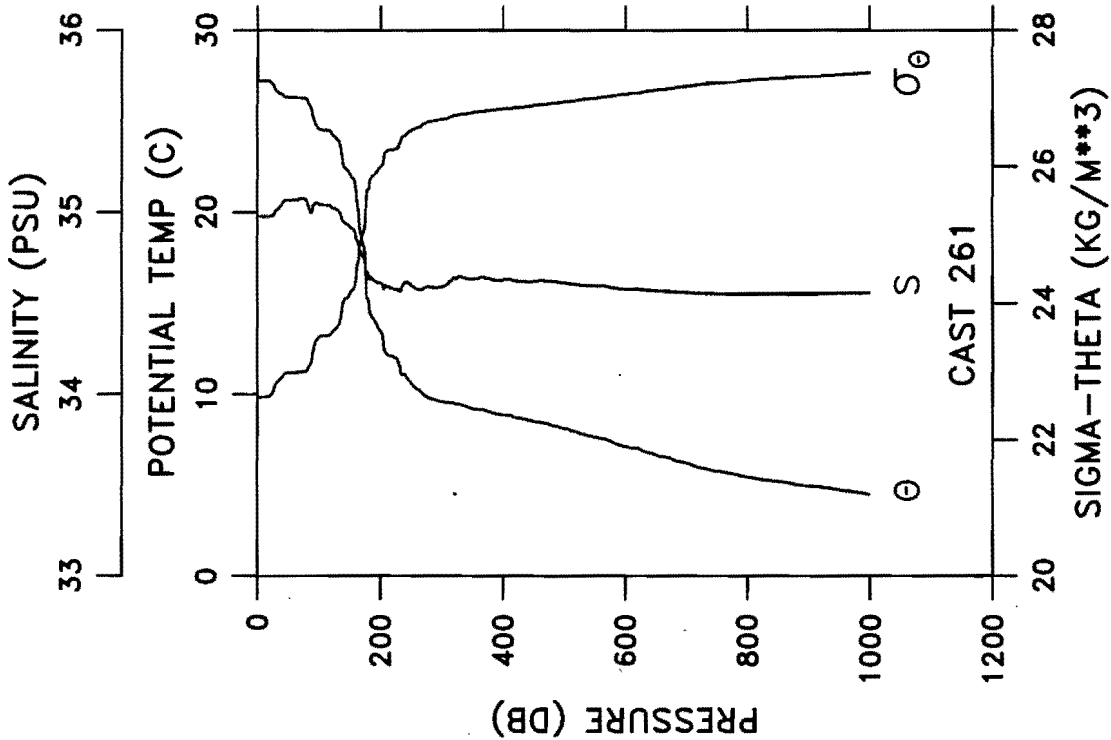
CAST GP9-99-KA-0251 DATE 06 DEC 99 TIME 0237 GMT
 LAT 02 59.7N LONG 170 01.7W WEATHER 1 SEA STATE 5
 BAROMETER 05 WIND DIR 111 T SPD 15 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.8 WET 23.9 DEPTH 5468 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	26.773	35.054	22.833	0.000
10	26.766	35.051	22.833	0.050
20	26.668	35.053	22.865	0.100
30	26.643	35.059	22.878	0.150
40	26.641	35.063	22.881	0.200
50	26.651	35.076	22.888	0.250
60	26.668	35.091	22.894	0.300
70	26.685	35.107	22.901	0.350
80	26.674	35.124	22.917	0.399
90	26.604	35.155	22.963	0.449
100	26.402	35.197	23.058	0.498
110	26.362	35.206	23.077	0.546
120	26.126	35.184	23.135	0.594
130	26.035	35.176	23.157	0.642
140	25.758	35.142	23.218	0.689
150	25.016	35.077	23.397	0.736
160	24.055	35.014	23.637	0.780
170	22.740	34.965	23.983	0.822
180	19.299	34.817	24.806	0.858
190	15.595	34.687	25.599	0.886
200	13.516	34.643	26.012	0.908
250	11.017	34.743	26.573	0.991
300	10.627	34.753	26.650	1.066
350	10.097	34.730	26.725	1.136
400	9.595	34.692	26.781	1.205
450	9.314	34.676	26.814	1.271
500	8.870	34.651	26.866	1.336
550	8.320	34.619	26.927	1.399
600	7.963	34.612	26.975	1.460
650	7.317	34.590	27.051	1.517
700	6.452	34.564	27.150	1.570
750	6.084	34.556	27.191	1.619
800	5.751	34.552	27.230	1.667
900	5.247	34.549	27.289	1.758
1000	4.623	34.556	27.366	1.843
1002	4.618	34.556	27.367	1.845

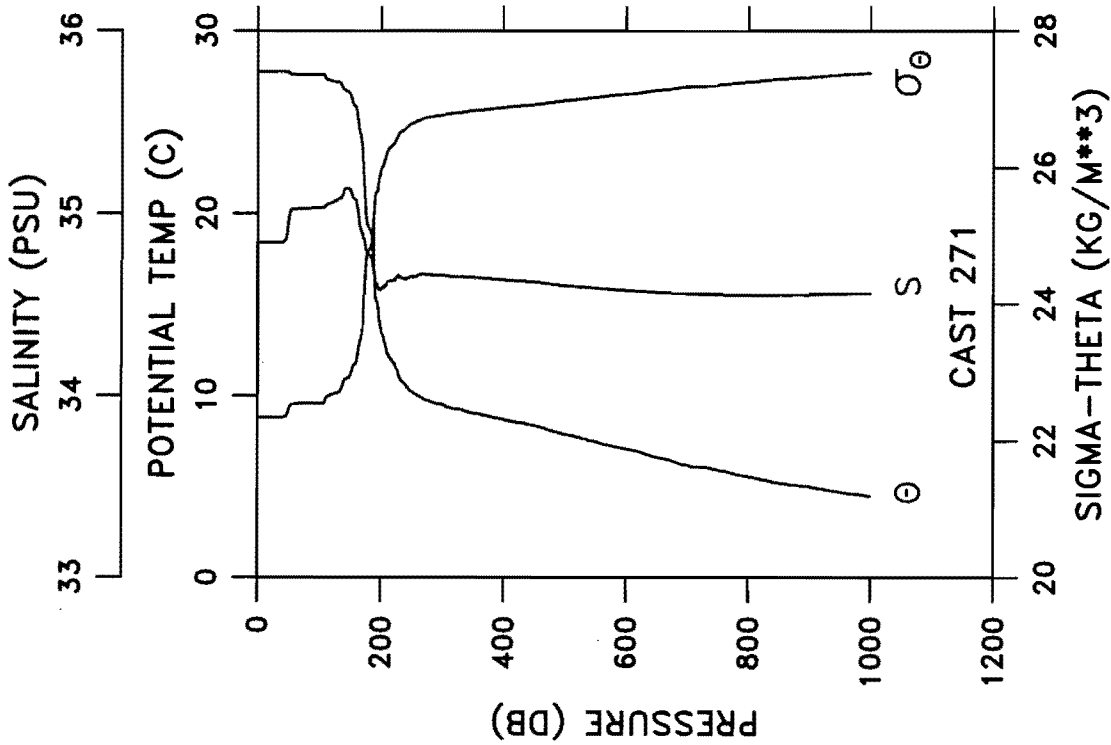
CAST CP9-99-KA-0261 DATE 06 DEC 99 TIME 1012 GMT
 LAT 03 59.2N LONG 170 01.3W WEATHER 1 SEA STATE 5
 BAROMETER 09 WIND DIR 120 T SPD 14 KT VISIBILITY 7
 CLOUD 8 AMOUNT 1 DRY 26.5 WET 24.0 DEPTH 5665 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.223	34.977	22.631	0.000
10	27.214	34.977	22.634	0.052
20	27.178	34.977	22.646	0.104
30	26.686	35.008	22.826	0.156
40	26.471	35.045	22.921	0.205
50	26.305	35.065	22.989	0.254
60	26.301	35.066	22.991	0.303
70	26.279	35.075	23.005	0.352
80	26.210	35.060	23.015	0.401
90	25.240	35.036	23.297	0.449
100	24.552	35.043	23.511	0.494
110	24.480	35.038	23.529	0.538
120	24.348	35.030	23.562	0.582
130	23.956	35.012	23.665	0.625
140	22.483	34.945	24.042	0.666
150	22.076	34.921	24.138	0.705
160	21.170	34.856	24.340	0.743
170	18.408	34.761	24.989	0.776
180	15.215	34.661	25.664	0.803
190	14.067	34.623	25.883	0.825
200	13.485	34.611	25.994	0.846
250	10.665	34.598	26.523	0.935
300	9.638	34.592	26.694	1.008
350	9.246	34.633	26.792	1.076
400	8.883	34.630	26.847	1.141
450	8.537	34.623	26.896	1.204
500	8.127	34.611	26.950	1.264
550	7.661	34.595	27.006	1.323
600	7.129	34.577	27.068	1.379
650	6.675	34.569	27.124	1.432
700	6.205	34.558	27.177	1.482
750	5.749	34.552	27.230	1.530
800	5.428	34.549	27.268	1.576
900	4.947	34.551	27.326	1.663
1000	4.502	34.557	27.380	1.746
1004	4.496	34.557	27.381	1.749

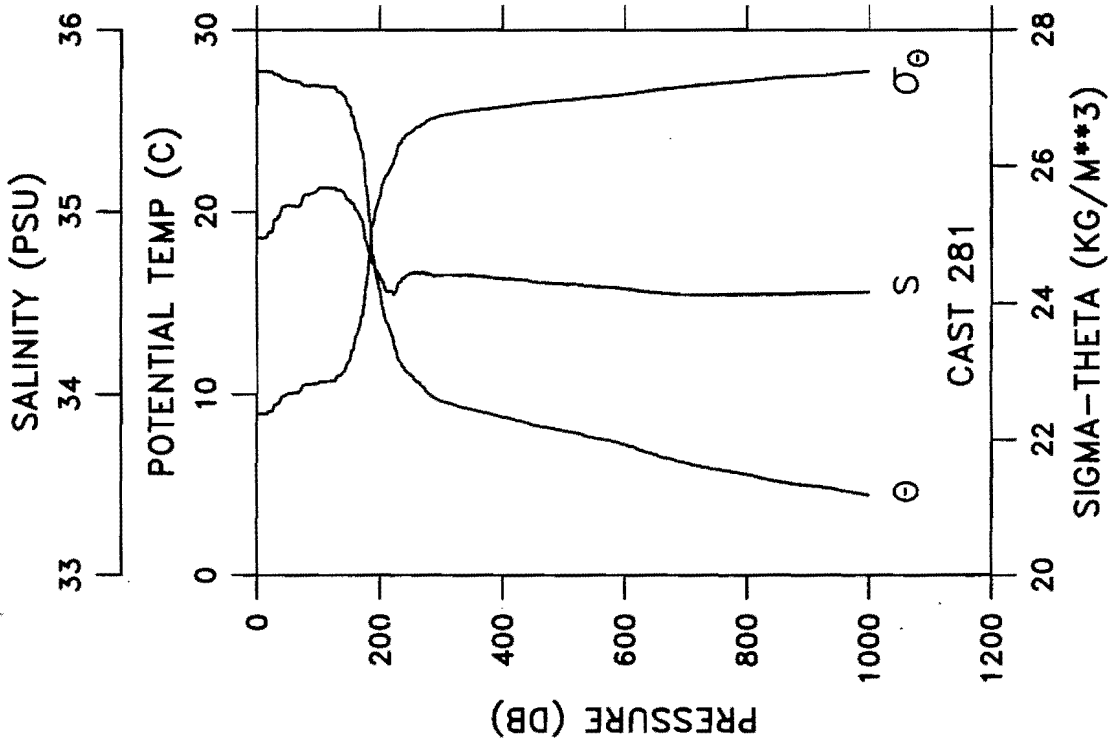


CAST GP9-99-KA-0271 DATE 06 DEC 99 TIME 1747 GMT
 LAT 04 59.4N LONG 169 58.9W WEATHER 1 SEA STATE 5
 BAROMETER 07 WIND DIR 124 T SPD 13 KT VISIBILITY 7
 CLOUD B AMOUNT 4 DRY 26.7 WET 24.5 DEPTH 5783 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.778	34.839	22.348	0.000
10	27.786	34.839	22.346	0.055
20	27.786	34.839	22.345	0.110
30	27.789	34.839	22.344	0.165
40	27.790	34.840	22.345	0.220
50	27.718	34.955	22.455	0.274
60	27.612	35.024	22.541	0.328
70	27.595	35.026	22.548	0.381
80	27.591	35.027	22.551	0.434
90	27.589	35.030	22.553	0.487
100	27.590	35.031	22.554	0.541
110	27.401	35.041	22.623	0.594
120	27.256	35.058	22.681	0.646
130	27.206	35.075	22.710	0.698
140	26.778	35.126	22.885	0.750
150	26.545	35.127	22.960	0.800
160	25.796	35.069	23.151	0.848
170	23.635	34.893	23.670	0.894
180	19.257	34.774	24.784	0.930
190	15.957	34.653	25.491	0.960
200	13.530	34.583	25.963	0.983
250	10.222	34.655	26.645	1.067
300	9.524	34.659	26.766	1.136
350	9.028	34.647	26.838	1.201
400	8.692	34.634	26.881	1.264
450	8.355	34.622	26.924	1.325
500	7.860	34.601	26.982	1.384
550	7.465	34.588	27.029	1.441
600	7.042	34.574	27.077	1.496
650	6.584	34.565	27.133	1.549
700	6.162	34.557	27.182	1.599
750	5.879	34.552	27.214	1.647
800	5.525	34.548	27.255	1.694
900	4.988	34.551	27.321	1.781
1000	4.470	34.559	27.385	1.863
1002	4.468	34.559	27.385	1.865



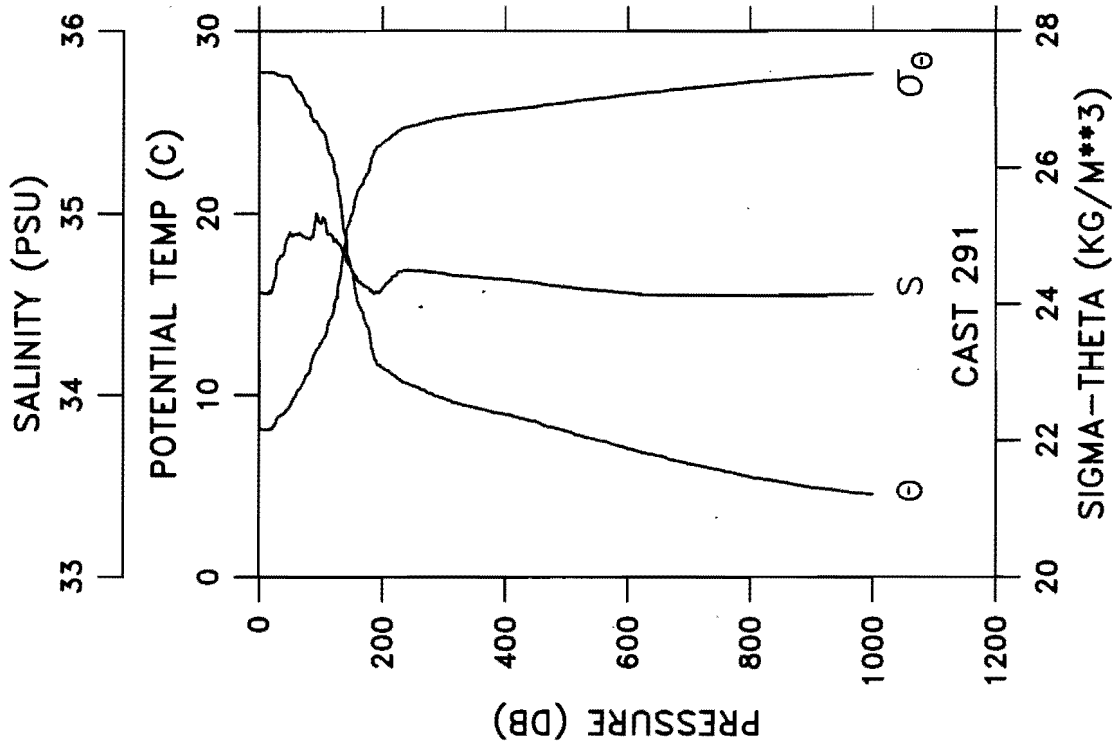
CAST GP9-99-KA-0281 DATE 07 DEC 99 TIME 0302 GMT
 LAT 06 00.5N LONG 169 58.4W WEATHER 8 SEA STATE 5
 BAROMETER 06 WIND DIR 089 T SPD 13 KT VISIBILITY 7
 CLOUD 8 AMOUNT 8 DRY 24.7 WET 22.8 DEPTH 5438 M



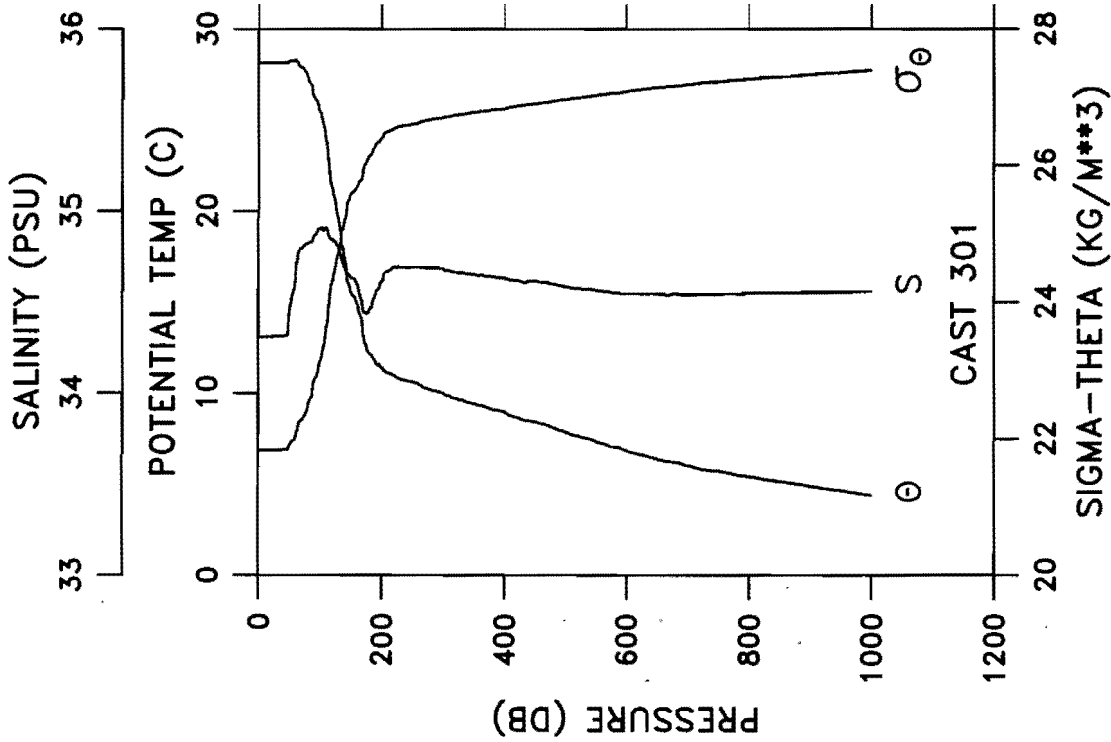
PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.723	34.860	22.382	0.000
10	27.725	34.855	22.377	0.055
20	27.691	34.891	22.416	0.109
30	27.547	34.953	22.509	0.163
40	27.365	35.013	22.613	0.216
50	27.218	35.035	22.677	0.268
60	27.175	35.031	22.687	0.320
70	27.090	35.036	22.718	0.372
80	26.933	35.093	22.811	0.423
90	26.934	35.100	22.816	0.474
100	26.927	35.124	22.837	0.524
110	26.888	35.131	22.854	0.575
120	26.873	35.130	22.859	0.625
130	26.634	35.117	22.924	0.676
140	26.410	35.106	22.987	0.725
150	25.772	35.062	23.153	0.774
160	24.501	35.009	23.500	0.820
170	23.347	34.961	23.805	0.864
180	20.789	34.809	24.407	0.903
180	17.417	34.713	25.195	0.934
200	15.697	34.648	25.546	0.961
250	11.085	34.663	26.499	1.057
300	9.648	34.654	26.742	1.130
350	9.163	34.652	26.820	1.196
400	8.745	34.635	26.873	1.260
450	8.300	34.618	26.928	1.321
500	7.983	34.608	26.968	1.381
550	7.600	34.593	27.013	1.439
600	7.231	34.579	27.055	1.495
650	6.649	34.560	27.120	1.548
700	6.186	34.549	27.173	1.598
750	5.840	34.547	27.215	1.647
800	5.536	34.548	27.254	1.694
900	4.951	34.553	27.327	1.781
1000	4.404	34.562	27.395	1.863
1500	3.063	34.601	27.561	2.214
2000	2.201	34.637	27.665	2.501
2500	1.739	34.661	27.720	2.753
3000	1.479	34.672	27.749	2.988
3500	1.287	34.680	27.769	3.215
4000	1.102	34.690	27.789	3.437
4006	1.100	34.690	27.790	3.440

CAST GP9-99-KA-0291 DATE 07 DEC 99 TIME 1106 GMT
 LAT 07 00.1N LONG 169 59.2W WEATHER 8 SEA STATE 5
 BAROMETER 09 WIND DIR 083 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 8 DRY 23.8 WET 22.5 DEPTH 4884 M

PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	27.726	34.565	22.159	0.000
10	27.726	34.561	22.155	0.057
20	27.721	34.568	22.163	0.113
30	27.584	34.742	22.338	0.169
40	27.517	34.779	22.388	0.224
50	27.430	34.897	22.504	0.278
60	26.835	34.886	22.687	0.331
70	26.368	34.876	22.826	0.382
80	25.833	34.864	22.984	0.432
90	25.026	34.937	23.288	0.479
100	24.591	34.948	23.428	0.525
110	23.776	34.890	23.626	0.569
120	22.869	34.869	23.874	0.610
130	21.010	34.833	24.365	0.649
140	18.708	34.760	24.913	0.682
150	16.857	34.693	25.313	0.711
160	15.078	34.631	25.671	0.736
170	14.187	34.604	25.842	0.759
180	13.070	34.583	26.056	0.780
190	11.806	34.566	26.289	0.799
200	11.525	34.591	26.361	0.816
250	10.536	34.686	26.614	0.894
300	9.813	34.671	26.727	0.965
350	9.306	34.653	26.797	1.032
400	8.939	34.639	26.846	1.097
450	8.541	34.620	26.893	1.160
500	8.015	34.596	26.955	1.220
550	7.511	34.577	27.014	1.278
600	7.037	34.562	27.069	1.334
650	6.642	34.551	27.114	1.387
700	6.211	34.547	27.168	1.438
750	5.877	34.545	27.209	1.487
800	5.503	34.545	27.255	1.533
900	4.930	34.551	27.327	1.622
1000	4.545	34.557	27.375	1.704
1002	4.530	34.556	27.377	1.706



CAST GP9-99-KA-0301 DATE 08 DEC 99 TIME 0240 GMT
 LAT 07 59.7N LONG 170 01.9W WEATHER 1 SEA STATE 5
 BAROMETER 06 WIND DIR 054 T SPD 12 KT VISIBILITY 7
 CLOUD 6 AMOUNT 6 DRY 25.4 WET 24.2 DEPTH 5545 M



PRES (DB)	POT TEMP (C)	SAL (PSU)	SIG-TH	DELTA-D (DYN-M)
0	28.152	34.308	21.827	0.000
10	28.150	34.310	21.829	0.060
20	28.149	34.310	21.829	0.120
30	28.142	34.311	21.832	0.179
40	28.139	34.313	21.835	0.239
50	28.243	34.441	21.897	0.299
60	28.294	34.614	22.011	0.358
70	27.908	34.795	22.272	0.415
80	27.400	34.820	22.456	0.470
90	26.302	34.860	22.835	0.522
100	25.466	34.907	23.131	0.572
110	23.807	34.910	23.632	0.618
120	21.252	34.846	24.309	0.657
130	19.543	34.793	24.725	0.692
140	17.319	34.684	25.197	0.722
150	15.562	34.635	25.567	0.748
160	14.924	34.598	25.680	0.772
170	13.243	34.448	25.917	0.795
180	12.173	34.459	26.136	0.815
190	11.726	34.541	26.285	0.834
200	11.408	34.613	26.400	0.851
250	10.629	34.692	26.603	0.928
300	10.018	34.682	26.701	0.999
350	9.426	34.653	26.777	1.068
400	8.988	34.633	26.833	1.133
450	8.433	34.616	26.907	1.196
500	7.854	34.585	26.969	1.256
550	7.348	34.563	27.026	1.313
600	6.834	34.548	27.086	1.368
650	6.386	34.547	27.145	1.419
700	5.994	34.538	27.189	1.469
750	5.710	34.544	27.229	1.516
800	5.394	34.547	27.270	1.562
800	4.884	34.554	27.335	1.649
1000	4.375	34.560	27.396	1.730
1004	4.364	34.560	27.398	1.733

CAST GP9-99-KA-0011 LAT 07 58.6S LONG 179 48.2W CAST GP9-99-KA-0031 LAT 06 00.1S LONG 179 53.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.452	35.094	29.451	21.988	1.	28.982	35.518	28.982	22.463
10.	29.461	35.092	29.458	21.983	11.	28.837	35.516	28.834	22.511
25.	29.469	35.099	29.463	21.986	25.	28.778	35.517	28.772	22.532
40.	29.538	35.143	29.528	21.999	40.	28.477	35.572	28.467	22.675
60.	29.573	35.208	29.558	22.039	60.	28.255	35.587	28.241	22.761
100.	28.641	35.480	28.617	22.553	100.	27.872	35.534	27.848	22.849
150.	25.446	35.859	25.413	23.865	149.	26.139	35.654	26.105	23.489
199.	21.474	35.947	21.435	25.092	200.	20.243	35.706	20.206	25.249
400.	9.746	34.739	9.700	26.792	401.	9.553	34.714	9.507	26.813
599.	6.922	34.564	6.865	27.094	600.	7.262	34.582	7.203	27.063
799.	5.530	34.531	5.461	27.249	801.	5.517	34.522	5.449	27.246
1003.	4.582	34.530	4.501	27.361	1001.	4.581	34.537	4.501	27.367

CAST GP9-99-KA-0021 LAT 06 59.6S LONG 179 51.0W CAST GP9-99-KA-0041 LAT 04 56.2S LONG 179 57.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	29.256	35.417	29.255	22.295	2.	28.883	35.591	28.883	22.549
10.	29.252	35.415	29.249	22.296	10.	28.830	35.584	28.828	22.563
25.	29.262	35.484	29.256	22.344	25.	28.643	35.577	28.637	22.622
41.	29.065	35.566	29.055	22.476	40.	28.313	35.587	28.304	22.739
60.	28.403	35.521	28.389	22.656	61.	28.206	35.590	28.191	22.779
101.	27.952	35.520	27.929	22.812	101.	27.916	35.550	27.893	22.846
150.	26.503	35.743	26.469	23.445	150.	26.883	35.492	26.848	23.136
200.	22.008	35.910	21.968	24.929	400.	9.241	34.693	9.196	26.847
401.	9.100	34.684	9.056	26.861	601.	7.212	34.592	7.154	27.076
601.	6.803	34.550	6.747	27.100	801.	5.634	34.533	5.564	27.239
800.	5.577	34.528	5.508	27.243	1001.	4.546	34.538	4.466	27.371
1001.	4.594	34.541	4.514	27.367					

CAST GP9-99-KA-0051 LAT 03 59.6S LONG 179 56.2W

CAST GP9-99-KA-0071 LAT 02 03.5S LONG 179 59.1W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.549	35.485	28.549	22.580	1002.	4.765	34.543	4.683	27.349
10.	28.559	35.483	28.557	22.577	1501.	2.966	34.605	2.858	27.582
25.	28.554	35.483	28.548	22.579	1750.	2.597	34.621	2.473	27.630
41.	28.510	35.473	28.500	22.588	2001.	2.253	34.641	2.112	27.674
60.	28.346	35.520	28.332	22.679	2251.	2.058	34.651	1.899	27.700
100.	28.171	35.569	28.147	22.776	2501.	1.888	34.660	1.709	27.721
150.	27.341	35.506	27.306	23.002	2751.	1.773	34.666	1.574	27.736
399.	9.443	34.702	9.398	26.820	2999.	1.604	34.678	1.384	27.758
600.	7.372	34.598	7.313	27.061	3249.	1.546	34.681	1.304	27.767
800.	5.682	34.541	5.612	27.239	3500.	1.500	34.685	1.234	27.776
1002.	4.508	34.542	4.428	27.378	3749.	1.459	34.689	1.168	27.784
					4005.	1.416	34.694	1.099	27.792

CAST GP9-99-KA-0081 LAT 01 30.2S LONG 179 52.9W

CAST GP9-99-KA-0061 LAT 03 00.2S LONG 179 55.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.250	35.447	28.249	22.652	2.	28.056	35.433	28.056	22.706
9.	28.250	35.448	28.247	22.653	9.	28.043	35.435	28.041	22.711
24.	28.269	35.462	28.263	22.657	25.	27.907	35.438	27.901	22.760
40.	28.273	35.465	28.263	22.660	40.	27.880	35.431	27.870	22.765
60.	27.805	35.328	27.791	22.712	60.	27.522	35.305	27.508	22.786
100.	27.369	35.208	27.346	22.766	100.	27.435	35.316	27.411	22.826
150.	27.256	35.456	27.222	22.991	149.	27.111	35.412	27.077	23.006
200.	19.235	35.536	19.199	25.367	200.	16.786	35.368	16.753	25.853
399.	9.531	34.707	9.486	26.809	401.	9.780	34.711	9.734	26.772
600.	7.574	34.606	7.514	27.038	601.	7.320	34.587	7.261	27.059
800.	5.687	34.545	5.617	27.241	802.	5.781	34.547	5.711	27.233
1000.	4.488	34.546	4.409	27.383	1002.	4.704	34.541	4.623	27.355

CAST GP9-99-KA-0091 LAT 01 00.1S LONG 179 52.9W CAST GP9-99-KA-0111 LAT 00 01.4N LONG 179 53.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	27.902	35.435	27.901	22.757	2.	27.081	35.242	27.080	22.877
10.	27.909	35.433	27.907	22.753	10.	27.086	35.244	27.083	22.879
25.	27.899	35.432	27.893	22.757	26.	27.092	35.248	27.086	22.879
40.	27.806	35.420	27.797	22.779	40.	27.094	35.244	27.085	22.879
60.	27.780	35.417	27.766	22.787	60.	27.111	35.269	27.098	22.893
100.	27.323	35.395	27.300	22.920	101.	26.548	35.282	26.525	23.082
150.	24.935	35.659	24.902	23.864	150.	22.632	35.596	22.602	24.505
200.	16.438	35.324	16.405	25.903	200.	18.960	35.353	18.924	25.295
399.	9.811	34.711	9.764	26.768	400.	10.525	34.760	10.476	26.679
599.	7.497	34.596	7.437	27.040	600.	7.303	34.589	7.244	27.061
800.	5.574	34.547	5.504	27.257	801.	5.732	34.550	5.662	27.240
1002.	4.785	34.551	4.703	27.351	1001.	4.818	34.552	4.736	27.350

CAST GP9-99-KA-0101 LAT 00 29.9S LONG 179 53.0W CAST GP9-99-KA-0121 LAT 00 29.9N LONG 179 52.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.572	35.373	27.571	22.817	2.	27.277	35.153	27.277	22.746
10.	27.566	35.371	27.564	22.819	9.	27.241	35.153	27.239	22.759
26.	27.581	35.373	27.575	22.817	25.	27.096	35.168	27.090	22.815
40.	27.589	35.384	27.579	22.820	40.	27.050	35.181	27.041	22.842
61.	27.585	35.462	27.571	22.887	60.	27.039	35.190	27.025	22.854
100.	26.688	35.426	26.665	23.146	100.	26.962	35.223	26.940	22.905
151.	22.467	35.622	22.437	24.571	150.	23.447	35.405	23.416	24.117
201.	18.243	35.442	18.208	25.557	199.	17.694	35.150	17.660	25.446
400.	10.208	34.744	10.161	26.720	401.	10.283	34.745	10.235	26.701
600.	7.315	34.588	7.256	27.059	600.	7.331	34.586	7.272	27.056
801.	5.657	34.547	5.587	27.248	801.	5.852	34.550	5.781	27.226
1002.	4.729	34.551	4.648	27.361	1001.	4.880	34.549	4.797	27.341

CAST GP9-99-KA-0131 LAT 00 59.9N LONG 179 51.5W								CAST GP9-99-KA-0151 LAT 02 02.6N LONG 179 49.2W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
3.	27.193	35.125	27.192	22.751	2.	27.282	35.106	27.282	22.707						
11.	27.195	35.125	27.193	22.751	9.	27.261	35.105	27.259	22.715						
26.	27.181	35.131	27.175	22.760	25.	27.247	35.108	27.241	22.723						
41.	27.179	35.131	27.169	22.763	40.	27.217	35.120	27.208	22.743						
61.	27.067	35.175	27.053	22.834	60.	27.163	35.147	27.149	22.781						
102.	26.896	35.211	26.873	22.917	102.	26.933	35.191	26.909	22.889						
152.	22.436	35.293	22.405	24.322	151.	25.247	35.092	25.215	23.341						
201.	17.166	35.035	17.133	25.500	200.	16.702	34.751	16.669	25.396						
400.	10.019	34.757	9.972	26.731	400.	10.016	34.718	9.969	26.730						
601.	7.343	34.591	7.284	27.053	600.	7.358	34.582	7.299	27.045						
802.	5.794	34.549	5.724	27.231	800.	5.824	34.549	5.753	27.226						
1001.	4.767	34.552	4.685	27.356	1002.	4.691	34.555	4.610	27.365						
CAST GP9-99-KA-0141 LAT 01 30.2N LONG 179 50.2W								CAST GP9-99-KA-0161 LAT 02 30.5N LONG 179 49.8W							
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	
2.	27.199	35.113	27.198	22.740	3.	27.519	35.049	27.518	22.590						
10.	27.200	35.112	27.198	22.739	11.	27.348	35.049	27.346	22.648						
26.	27.206	35.118	27.200	22.739	26.	27.340	35.084	27.334	22.676						
40.	27.194	35.119	27.185	22.750	41.	27.307	35.109	27.298	22.707						
60.	27.139	35.148	27.125	22.790	61.	27.267	35.126	27.253	22.734						
101.	26.897	35.197	26.874	22.902	101.	27.074	35.199	27.051	22.854						
151.	23.793	35.191	23.761	23.862	150.	26.160	35.102	26.126	23.075						
201.	18.178	35.045	18.143	25.285	202.	15.068	34.717	15.037	25.719						
402.	10.252	34.745	10.204	26.702	400.	9.886	34.711	9.840	26.749						
600.	7.416	34.588	7.356	27.042	599.	7.719	34.586	7.658	27.000						
801.	5.716	34.550	5.647	27.239	802.	5.869	34.544	5.798	27.218						
1002.	4.666	34.556	4.585	27.368	1001.	4.738	34.551	4.656	27.360						

CAST GP9-99-KA-0171 LAT 03 00.3N LONG 179 50.7W CAST GP9-99-KA-0191 LAT 05 00.5N LONG 179 54.8W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.608	35.085	27.607	22.590	3.	28.570	34.551	28.569	21.871
11.	27.496	35.084	27.494	22.625	10.	28.580	34.557	28.578	21.871
26.	27.362	35.093	27.356	22.674	25.	28.599	34.601	28.593	21.904
40.	27.307	35.115	27.298	22.710	40.	28.594	34.674	28.585	21.961
60.	27.221	35.166	27.207	22.779	60.	28.219	35.169	28.205	22.458
101.	27.177	35.213	27.154	22.831	101.	27.731	35.175	27.708	22.623
150.	26.418	35.126	26.384	23.007	151.	24.767	34.952	24.734	23.383
201.	14.282	34.627	14.252	25.841	401.	8.573	34.612	8.530	26.888
401.	9.974	34.717	9.927	26.738	601.	7.214	34.574	7.156	27.061
601.	7.704	34.585	7.643	27.002	801.	5.764	34.543	5.694	27.232
801.	5.695	34.545	5.625	27.240	1000.	4.725	34.553	4.643	27.363
1003.	4.689	34.551	4.607	27.365					

CAST GP9-99-KA-0181 LAT 03 59.9N LONG 179 53.1W CAST GP9-99-KA-0201 LAT 06 00.1N LONG 179 53.4W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
4.	28.172	34.972	28.171	22.320	4.	28.426	34.555	28.425	21.924
9.	28.170	34.972	28.168	22.322	10.	28.438	34.560	28.436	21.932
24.	27.930	35.043	27.924	22.461	25.	28.461	34.616	28.455	21.959
41.	27.701	35.100	27.691	22.572	61.	27.708	35.134	27.694	22.597
60.	27.578	35.130	27.564	22.637	101.	27.690	35.231	27.667	22.680
101.	27.362	35.172	27.338	22.742	150.	22.978	34.925	22.947	23.886
150.	25.632	35.073	25.599	23.209	200.	12.050	34.565	12.024	26.247
199.	16.465	34.670	16.433	25.391	399.	8.670	34.616	8.628	26.876
401.	8.905	34.649	8.862	26.859	599.	7.005	34.563	6.948	27.084
801.	5.882	34.544	5.811	27.218	800.	5.594	34.543	5.525	27.253
1004.	4.832	34.549	4.749	27.348	1004.	4.445	34.562	4.366	27.399

CAST GP9-99-KA-0211 LAT 06 59.8N LONG 179 52.4W CAST GP9-99-KA-0231 LAT 02 00.2N LONG 170 03.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	28.552	34.232	28.551	21.639	1.	26.749	35.079	26.749	22.858
10.	28.551	34.230	28.548	21.638	10.	26.753	35.078	26.751	22.857
26.	28.577	34.241	28.571	21.646	41.	26.630	35.073	26.620	22.894
61.	27.605	34.866	27.590	22.422	61.	26.587	35.064	26.573	22.903
100.	24.198	34.885	24.177	23.497	101.	25.979	35.141	25.957	23.154
149.	15.198	34.548	15.175	25.579	150.	22.933	34.964	22.903	23.922
200.	11.603	34.590	11.578	26.352	200.	11.998	34.626	11.972	26.300
401.	8.969	34.628	8.925	26.843	600.	7.425	34.593	7.366	27.044
601.	7.349	34.566	7.290	27.037	801.	5.674	34.547	5.604	27.244
800.	5.567	34.544	5.498	27.255	1002.	4.676	34.554	4.595	27.367
1003.	4.591	34.555	4.510	27.378					

CAST GP9-99-KA-0221 LAT 07 58.4N LONG 179 49.6W CAST GP9-99-KA-0241 LAT 01 00.1N LONG 170 02.7W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
1000.	4.345	34.560	4.266	27.410	10.	26.526	35.077	26.524	22.928
1501.	2.878	34.606	2.771	27.593	26.	26.530	35.077	26.524	22.928
1750.	2.431	34.626	2.309	27.648	40.	26.533	35.077	26.524	22.928
1999.	2.150	34.642	2.012	27.685	61.	26.497	35.079	26.483	22.942
2250.	1.951	34.654	1.794	27.711	99.	25.543	35.068	25.521	23.230
2501.	1.818	34.662	1.641	27.729	150.	20.369	34.974	20.341	24.643
2752.	1.739	34.668	1.541	27.741	200.	14.938	35.050	14.908	26.024
3002.	1.646	34.675	1.426	27.753	400.	10.118	34.975	10.071	26.728
3248.	1.587	34.665	1.344	27.762	801.	5.862	34.547	5.791	27.219
3552.	1.504	34.682	1.232	27.775	1001.	4.797	34.551	4.715	27.352
3750.	1.452	34.686	1.161	27.782					
4003.	1.382	34.692	1.066	27.793					

CAST GP9-99-KA-0251 LAT 02 59.7N LONG 170 01.7W										CAST GP9-99-KA-0271 LAT 04 59.4N LONG 169 58.9W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
3.	26.781	35.054	26.780	22.830	3.	27.809	34.840	27.809	22.340										
10.	26.776	35.053	26.774	22.831	11.	27.811	34.840	27.809	22.339										
24.	26.661	35.058	26.655	22.873	24.	27.817	34.840	27.811	22.339										
40.	26.662	35.070	26.653	22.882	40.	27.802	34.860	27.793	22.356										
60.	26.691	35.090	26.677	22.893	61.	27.624	35.020	27.610	22.540										
100.	26.395	35.204	26.372	23.073	101.	27.614	35.025	27.591	22.551										
151.	24.669	35.052	24.636	23.485	150.	26.566	35.126	26.532	22.959										
201.	12.584	34.600	12.557	26.168	201.	13.442	34.564	13.414	25.970										
400.	9.632	34.688	9.587	26.778	400.	8.769	34.632	8.726	26.874										
600.	7.902	34.605	7.840	26.987	601.	7.113	34.573	7.055	27.075										
800.	5.832	34.551	5.761	27.228	801.	5.573	34.547	5.504	27.257										
1002.	4.699	34.555	4.617	27.367	1002.	4.549	34.559	4.469	27.385										

CAST GP9-99-KA-0261 LAT 03 59.2N LONG 170 01.3W										CAST GP9-99-KA-0281 LAT 06 00.5N LONG 169 58.4W									
PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)	PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)					
2.	27.230	34.974	27.229	22.628	2.	27.708	34.859	27.707	22.388										
10.	27.233	34.973	27.230	22.627	11.	27.704	34.858	27.701	22.386										
25.	26.962	34.982	26.956	22.719	25.	27.695	34.883	27.689	22.409										
40.	26.438	35.048	26.428	22.940	42.	27.306	35.030	27.296	22.647										
60.	26.343	35.063	26.329	22.980	60.	27.191	35.031	27.177	22.687										
100.	25.281	35.034	25.259	23.281	101.	26.987	35.116	26.963	22.819										
150.	22.237	34.924	22.207	24.098	150.	25.239	35.039	25.206	23.307										
200.	13.466	34.601	13.438	25.992	200.	13.664	34.550	13.636	25.912										
399.	8.909	34.628	8.866	26.849	1001.	4.544	34.558	4.464	27.387										
600.	7.107	34.574	7.049	27.077	2000.	2.346	34.635	2.205	27.664										
800.	5.471	34.548	5.403	27.270	2999.	1.698	34.671	1.477	27.749										
1003.	4.580	34.556	4.500	27.380	4002.	1.418	34.690	1.101	27.789										

CAST GP9-99-KA-0291 LAT 07 00.1N LONG 169 59.2W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
3.	27.723	34.547	27.722	22.146
10.	27.727	34.545	27.725	22.145
24.	27.659	34.676	27.653	22.264
41.	27.526	34.814	27.517	22.421
61.	26.887	34.883	26.873	22.671
101.	24.695	34.941	24.673	23.399
151.	16.920	34.684	16.895	25.291
200.	11.461	34.595	11.436	26.384
399.	8.962	34.633	8.919	26.846
600.	7.014	34.554	6.956	27.076
801.	5.505	34.544	5.437	27.263
1001.	4.616	34.553	4.535	27.376

CAST GP9-99-KA-0301 LAT 07 59.7N LONG 170 01.9W

PRES (DB)	TEMP (C)	SAL (PSS-78)	POT TEMP (C)	SIG-TH (KG/M3)
2.	28.154	34.311	28.153	21.829
11.	28.154	34.310	28.152	21.829
26.	28.156	34.311	28.150	21.829
41.	28.143	34.311	28.133	21.835
60.	28.298	34.628	28.284	22.007
101.	25.686	34.901	25.664	23.059
150.	15.427	34.617	15.404	25.586
201.	11.430	34.608	11.405	26.397
400.	8.895	34.621	8.851	26.846
602.	6.768	34.543	6.712	27.101
803.	5.377	34.547	5.309	27.281
1000.	4.456	34.557	4.376	27.396